

List of Variables

Innovation Survey

Data: 1982-2014

As of January 2016

Contents
Description of Variables

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1. Identification variables

No.	Name	Label	German description
1.1)	plantnum	KT and INNO information containing id	11-stellige Identifikationsnummer
1.2)	idnum	KT and INNO firm adressfile id, 7 digits	Firmenidentifikations nummer
1.3)	gk	size range	Beschäftigungsgrößenklasse
1.4)	land	federal state (ifo code)	Bundesland entsprechend ifo-Codierung
1.5)	year	year	Erhebungsyear
1.6)	nace	industry sector, NACE code (wz93)	Branchenerkennung nach Nace Codierung (WZ93)
1.7)	waehr	currency DM - EUR	Währung DM - EUR
1.8)	westost	western / eastern	Unterscheidet zwischen West- and Easterhebung

2. General information

No.	Name	Label	German description
2.1)	umsatz	total revenue in above-mentioned product line	Umsatz im o.g. Erzeugnisbereich
2.2)	beszn	percentage increase in number of employees last 5 years	Zunahme des Beschäftigungsstandes letzte 5 yeare in %
2.3)	umszn	percentage increase in total revenue last 5 years	Zunahme des Umsatzes letzte 5 yeare in %
2.4)	beskv	unchanged number of employees last 5 years	no change des Beschäftigungsstandes letzte 5 yeare
2.5)	umskv	unchanged total revenue last 5 years	no change des Umsatzes letzte 5 yeare
2.6)	besan	percentage decrease in number of employees last 5 years	Abnahme des Beschäftigungsstandes letzte 5 yeare in %
2.7)	umsan	percentage decrease in total revenue last 5 years	Abnahme des Umsatzes letzte 5 yeare in %
2.8)	exp1	share of exports w.r.t. product line	Anteil der Exporte bzgl. o.g. Erzeugnisbereich
2.9)	exp2	share of exports w.r.t. whole company	Anteil der Exporte bzgl. des gesamten Unternehmens
2.10)	noexp	no exports	Keine Exporte
2.11)	beschft	number of employees w.r.t. product line	Anzahl der Beschäftigten bzgl. Erzeugnisbereich
2.12)	bs_fue	number of employees in R&D	Anzahl der Beschäftigten in R&D
2.13)	bs_dokt	share of employees with doctor's degree (product line)	Anteil Beschäftige mit Doktortitel
2.14)	bs_dokt_fue	share of employees in R&D with doctor's degree	Anteil Beschäftigte in R&D mit Doktortitel
2.15)	bs_fhtechn	share of employees with university degree, technical	Anteil Beschäftigte mit Hochschulabschluss, technisch
2.16)	bs_fhtechn_fue	share of employees in R&D with university degree, technical	Anteil Beschäftigte in R&D mit Hochschulabschluss, technisch
2.17)	bs_fhgeist	share of employees with university degree, social science	Anteil Beschäftigte mit Hochschulabschluss, geisteswissenschftl.
2.18)	bs_fhgeist_fue	share of employees in R&D with university degree, social science	Anteil Beschäftigte in R&D mit Hochschulabschluss, geisteswissenschftl.
2.19)	bs_ausgeb	share of employees with professional education	Anteil Beschäftigte mit Berufsausbildung
2.20)	bs_ausgeb_fue	share of employees in R&D with professional education	Anteil Beschäftigte in R&D mit Berufsausbildung
2.21)	bs_azubi	share of apprentices w.r.t. product line	Anteil Azubis im o.g. Erzeugnisbereich
2.22)	bs_azubi_fue	share of apprentices in R&D	Anteil Azubis im R&D-Bereich
2.23)	bs_unqual	share of unskilled workers w.r.t. product line	Anteil Beschäftigte ohne abgeschlossene Berufsausbildung im o.g. Erzeugnisbereich
2.24)	bs_unqual_fue	share of unskilled workers in R&D	Anteil Beschäftigte ohne abgeschlossene Berufsausbildung in R&D
2.25)	antwpers1	main respondent of questionnaire: leading position in R&D	Hauptauskunftsperson für Fragebogen: Leitende Position R&D
2.26)	antwpers2	main respondent of questionnaire: leading position in controlling	Hauptauskunftsperson für Fragebogen: Leitende Position Controlling
2.27)	antwpers3	main respondent of questionnaire: leading posit. in human resource management	Hauptauskunftsperson für Fragebogen: Leitende Position Personalwesen
2.28)	antwpers4	main respondent of questionnaire: management	Hauptauskunftsperson für Fragebogen: Management
2.29)	antwpers5	main respondent of questionnaire: employee in R&D	Hauptauskunftsperson für Fragebogen: Mitarbeiter R&D
2.30)	antwpers6	main respondent of questionnaire: employee in controlling	Hauptauskunftsperson für Fragebogen: Mitarbeiter Controlling
2.31)	antwpers7	main respondent of questionnaire: employee in human resource management	Hauptauskunftsperson für Fragebogen: Mitarbeiter Personalwesen
2.32)	antwpers8	main respondent of questionnaire: other position	Hauptauskunftsperson für Fragebogen: sonstige Position
2.33)	emppro	number of employees (from KT)	Im Unternehmen beschäftigte Personen (aus KT übertragen)
2.34)	emppro2	number of employees in production (from KT)	Produktionsbeschäftigte für XY (aus KT übertragen)
2.35)	degrac	share of employees with academic degree	Anteil der Beschäftigten mit Hochschulabschluss
2.36)	aku1	characterisation of company: independent	Our company is: selbstständig
2.37)	aku2	characterisation of company: part of a group	Our company is: part of a company group
2.38)	aku3	characterisation of company: parent company	Unser Unternehmens ist: Mutterunternehmen
2.39)	aku4	characterisation of company: subsidiary	Unser Unternehmens ist: Tochterunternehmen
2.40)	aku5	characterisation of company: affiliated	Unser Unternehmens ist: Schwesterunternehmen

3. Innovationen

3.1 Innovation activities in the year under review

3.1.1 No innovation activities

No.	Name	Label	German description
3.1.1.1)	no_inno1	no innovations, because not necessary	Keine Innovationen, weil nicht erforderlich
3.1.1.2)	no_inno2	no innovations, due to obstacles	Keine Innovationen, aufgrund von Hemmnissen

3.1.2 Product innovations

	3.1.2 Product illitovations		
No.	Name	Label	German description
3.1.2.1)	pdin1	product innovations introduced	Produktinnovationen eingeführt
3.1.2.2)	pdin1a1	product innovations introduced (retaining production technology)) Produktinnovationen eingeführt unter Beibehaltung der Produktionstechnik
3.1.2.3)	pdin1a2	number of introduced product innovations (retaining production technology)	Anzahl der neuen Produkte, eingeführt unter Beibehaltung der Produktionstechnik
3.1.2.4)	pdin1b1	product innovations introduced (altering production technology)	Produktinnovationen eingeführt unter Änderung der Produktionstechnik
3.1.2.5)	pdin1b2	number of introduced product innovations (altering production technology)	Anzahl der neuen Produkte, eingeführt unter Änderung der Produktionstechnik
3.1.2.6)	pdin2	product innovations started	Produktinnovationen begonnen bzw. noch nicht abgeschlossen
3.1.2.7)	pdin2a	product innovations started (retaining production technology)	Produktinnovationen begonnen unter Beibehaltung der Produktionstechnik
3.1.2.8)	pdin2b	product innovations started (altering production technology)	Produktinnovationen begonnen unter Änderung der Produktionstechnik
3.1.2.9)	pdin3	product innovations cancelled	Produktinnovationen abgebrochen
3.1.2.10)	pdin3a	product innovations cancelled (retaining production technology)	Produktinnovationen abgebrochen unter Beibehaltung der Produktionstechnik
3.1.2.11)	pdin3b	product innovations cancelled (altering production technology)	Produktinnovationen abgebrochen unter Änderung der Produktionstechnik
3.1.2.12)	pdin4e	ext. research required for product innovations	Eingeführte Innovationen erforderten externe Forschung

3.1.2.13)	pdin4ea	ext. research required for product innovations (retaining prod. technology)	Eingeführte Innovationen erforderten ext. Forschung - unter Beibehaltung der Produktionstechnik
3.1.2.14)	pdin4eb	ext. research required for product innovations (altering prod.	Eingeführte Innovationen erforderten ext. Forschung - unter Änderung der
3.1.2.15)	pdin4i	int. research required for product innovations	Produktionstechnik Eingeführte Innovationen erforderten interne Forschung
		int. research required for product innovations (retaining prod.	Eingeführte Innovationen erforderten int. Forschung - unter Beibehaltung der
3.1.2.16)	pdin4ia	technology)	Produktionstechnik
3.1.2.17)	pdin4ib	int. research required for product innovations (altering prod. technology)	Eingeführte Innovationen erforderten int. Forschung - unter Änderung der Produktionstechnik
3.1.2.18)	pdin5e	ext. experimental dev. required for product innovations	Eingeführte Innovationen erforderten externe experimentelle Entwicklung
		ext. experimental dev. required for product inno. (retaining prod.	Eingeführte Innovationen erforderten ext. experimentelle Entwicklung - unter Beibehaltung
3.1.2.19)	pdin5ea	technology)	der Produktionstechnik
3.1.2.20)	pdin5eb	ext. experimental dev. required for product inno. (altering prod. technology)	Eingeführte Innovationen erforderten ext. experimentelle Entwicklung - unter Änderung der Produktionstechnik
3.1.2.21)	pdin5i	int. experimental dev. required for product innovations	Eingeführte Innovationen erforderten interne experimentelle Entwicklung
3.1.2.22)	pdin5ia		Eingeführte Innovationen erforderten int. experimentelle Entwicklung - unter Beibehaltung
J	P 6111-011	prod. tech.) int. experimental dev. required for product inno. (altering prod.	der Produktionstechnik Eingeführte Innovationen erforderten int. experimentelle Entwicklung - unter Änderung der
3.1.2.23)	pdin5ib	technology)	Produktionstechnik
3.1.2.24)	pdin6e	ext. construction required for product innovation	Eingeführte Innovationen erforderten externe Konstruktion
3.1.2.25)	pdin6ea	ext. construction required for product innovations (retaining	Eingeführte Innovationen erforderten ext. Konstruktion - unter Beibehaltung der
		prod. technology) ext. construction required for product innovations (altering	Produktionstechnik Eingeführte Innovationen erforderten ext. Konstruktion - unter Änderung der
3.1.2.26)	pdin6eb	produ. technology)	Produktionstechnik
3.1.2.27)	pdin6i	int. construction required for innovations	Eingeführte Innovationen erforderten interne Konstruktion
3.1.2.28)	pdin6ia	int. construction required for product innovations (retaining prod. technology)	e Innovationen erforderten int. Konstruktion - unter Beibehaltung der Produktionstechnik
2.4.2.20\	n din Cih	int. construction required for product innovations (altering prod.	Eingeführte Innovationen erforderten int. Konstruktion - unter Änderung der
3.1.2.29)	pdin6ib	technology)	Produktionstechnik
3.1.2.30)	pdin7e	ext. product design required for product inno.	Eingeführte Innovationen erforderten externes Produktdesign
3.1.2.31)	pdin7ea	ext. product design required for product inno. (retaining prod. technology)	Eingeführte Innovationen erforderten ext. Produktdesign - unter Beibehaltung der Produktionstechnik
3.1.2.32)	pdin7eb	ext. product design required for product inno. (altering prod.	Eingeführte Innovationen erforderten ext. Produktdesign - unter Änderung der
3.1.2.33)	pdin7i	technology) int. product design required for product inno.	Produktionstechnik Eingeführte Innovationen erforderten internes Produktdesign
		int. product design required for product inno. (retaining prod.	Eingeführte Innovationen erforderten int. Produktdesign - unter Beibehaltung der
3.1.2.34)	pdin7ia	technology)	Produktionstechnik
3.1.2.35)	pdin7ib	int. product design required for product inno. (altering prod. technology)	Eingeführte Innovationen erforderten int. Produktdesign - unter Änderung der Produktionstechnik
2 1 2 26)	ndine 700	ext. construction & design required for product inno. (retaining	Eingeführte Innovationen erforderten ext. Produktdesign & Konstruktion - unter
3.1.2.36)	pdin6_7ea	prod. tech.)	Beibehaltung der Produktionstechnik
3.1.2.37)	pdin6_7eb	ext. construction & design required for product innovations (altering production technology)	Eingeführte Innovationen erforderten ext. Produktdesign & Konstruktion - unter Änderung der Produktionstechnik
3.1.2.38)	pdin6_7ia	int. construction & design required for product inno. (retaining	Eingeführte Innovationen erforderten int. Produktdesign & Konstruktion - unter
3.1.2.30)	pairio_71a	prod. tech.)	Beibehaltung der Produktionstechnik Eingeführte Innovationen erforderten int. Produktdesign & Konstruktion - unter Änderung
3.1.2.39)	pdin6_7ib	int. construction & design required for product inno. (altering prod. tech.)	der Produktionstechnik
3.1.2.40)	pdin8	licence obtained for product innovations	Lizenznahme erfolgt bei Innovationsprojekten
3.1.2.41)	pdin8a	licence obtained for product innovations (retaining prod. technology)	Lizenznahme erfolgt bei Innovationsprojekten - unter Beibehaltung der Produktionstechnik
3.1.2.42)	pdin8b	licence obtained for product innovations (altering prod. technology)	Lizenznahme erfolgt bei Innovationsprojekten - unter Änderung der Produktionstechnik
3.1.2.43)	pdin9	patent applications during product innovations	Anmeldung eigener Patente erfolgt bei Innovationsprojekten
3.1.2.44)	pdin9a	patent applications during product innovations (retaining prod.	Anmeldung eigener Patente erfolgt bei Innovationsprojekten - unter Beibehaltung der
	F 5.115 E	technology) patent applications during product innovations (altering prod.	Produktionstechnik Anmeldung eigener Patente erfolgt bei Innovationsprojekten - unter Änderung der
3.1.2.45)	pdin9b	technology)	Produktionstechnik
3.1.2.46)	pdin10	registering of designs for product innovations	Eintragung von Gebrauchsmustern erfolgt bei Innovationsprojekten
3.1.2.47)	pdin10a	registering of designs for product innovations (retaining prod. technology)	Eintragung von Gebrauchsmustern erfolgt bei Innovationsprojekten - unter Beibehaltung der Produktionstechnik
3.1.2.48)	pdin10b	registering of designs for product innovations (altering prod.	Eintragung von Gebrauchsmustern erfolgt bei Innovationsprojekten - unter Änderung der
3.1.2.70]	Palliton	Technology	Produktionstechnik

3.1.3 Process innovations

No.	Name	Label	German description
3.1.3.1)	pzin1	process innovations introduced	Prozessinnovationen eingeführt
3.1.3.2)	pzin1a	process innovations introduced in production (retaining product portfolio)	Prozessinnovationen eingeführt in Produktion unter Beibehaltung des Produktprogramms
3.1.3.3)	pzin1b	process innovations introduced in administration	Prozessinnovationen eingeführt in Büro and Verwaltung
3.1.3.4)	pzin2	process innovations started	Prozessinnovationen begonnen bzw. noch nicht abgeschlossen
3.1.3.5)	pzin2a	process innovations started in production (retaining product portfolio)	Prozessinnovationen begonnen in Produktion unter Beibehaltung des Produktprogramms
3.1.3.6)	pzin2b	process innovations started in administration	Prozessinnovationen begonnen in Büro and Verwaltung
3.1.3.7)	pzin3	process innovations cancelled	Prozessinnovationen abgebrochen
3.1.3.8)	pzin3a	process innovations cancelled in production (retaining product portfolio)	Prozessinnovationen abgebrochen in Produktion unter Beibehaltung des Produktprogramms
3.1.3.9)	pzin3b	process innovations cancelled in administration	Prozessinnovationen abgebrochen in Büro and Verwaltung
3.1.3.10)	pzin4e	ext. research required for process innovations	Externe Forschung erfordert für Prozessinnovationen
3.1.3.11)	pzin4i	int. research required for process innovations	Interne Forschung erfordert für Prozessinnovationen
3.1.3.12)	pzin5e	ext. experimental dev. required for process innovations	Externe experimentelle Entwicklung erfordert für Prozessinnovationen
3.1.3.13)	pzin5i	int. experimental dev. required for process innovations	Interne experimentelle Entwicklung erfordert für Prozessinnovationen
3.1.3.14)	pzin6e	ext. construction required for process innovations	Externe Konstruktion erfordert für Prozessinnovationen
3.1.3.15)	pzin6i	int. construction required for process innovations	Interne Konstruktion erfordert für Prozessinnovationen
3.1.3.16)	pzin8	licence obtained for process innovations	Lizenznahme erfolgt während Prozessinnovationen
3.1.3.17)	pzin9	patent applications during process innovations	Anmeldung eigener Patente erfolgt während Prozessinnovation
3.1.3.18)	pzin10	registering of designs for process innovations	Eintragung von Gebrauchsmustern erfolgt während Prozessinnovation

3.2 Goals of innovations

3.2.1 Product innovations

No.	Name	Label	German description
3.2.1.1)	ziel1	dev. of successive products for discontinued ones	Schaffung von Nachfolgeprodukten für auslaufende Produkte als Ziel
3.2.1.2)	ziel2	expansion of the product range within the main product line	Ausweitung der Produktpalette innerh. Erzeugnisschwerpunkt als Ziel
3.2.1.3)	ziel3	expansion of the product range beyond the main product line	Ausweitung der Produktpalette ausserh. Erzeugnisschwerpunkt als Ziel
3.2.1.4)	ziel4	maintenance of the market share	Erhaltung des Marktanteils als Ziel
3.2.1.5)	ziel14	increasing the market share	Erhöhung des Marktanteils als Ziel
3.2.1.6)	ziel5	entering new international markets	Erschließung neuer Märkte in intern. Hinsicht als Ziel
3.2.1.7)	ziel5_1	entering new national markets	Erschließung neuer nationaler Märkte als Ziel
3.2.1.8)	ziel5_2	entering new markets within the EC	Erschließung neuer Märkte innerhalb der EG als Ziel
3.2.1.9)	ziel5_3	entering new markets in North America	Erschließung neuer Märkte in Nordamerika als Ziel
3.2.1.10)	ziel5_4	entering new markets in Japan	Erschließung neuer Märkte in Japan als Ziel
3.2.1.11)	ziel5_5	entering new markets in other countries	Erschließung neuer Märkte in anderen Ländern als Ziel
3.2.1.12)	ziel6	entering new markets with respect to new target groups	Erschließung neuer Märkte: neue Zielgruppen als Ziel

	3.2.2 Process innovations		
No.	Name	Label	German description
3.2.2.1) 3.2.2.2)	ziel7 ziel8	increasing flexibility of production reduction of wage costs	Steigerung der Flexibilität der Produktion als Ziel Verringerung des Lohnkostenanteils als Ziel
3.2.2.3)	ziel9	reduction in material consumption	Senkung des Materialverbrauchs als Ziel
3.2.2.4)	ziel10	reduction in energy consumption	Senkung des Energieverbrauchs als Ziel
3.2.2.5) 3.2.2.6)	ziel11 ziel12	reduction in waste production improvement of working conditions	Verminderung des Ausschusses als Ziel Verbesserung der Arbeitsbedingungen als Ziel
3.2.2.7)	ziel13	reduction in environmental pollution	Verminderung von Umweltbelastungen als Ziel
3.2.2.8)	ziel15 ziel16	reduction in product development costs reduction of turnaround times	Senkung der Produktentwicklungskosten als Ziel Verkürzung der Durchlaufzeiten
3.2.2.10)	ziel17	improvement in product quality	Verbesserung der Produktqualität als Ziel
3.3 Innova	tion expenditures		
	3.3.1 Product innovations		
No.	Name	Label	German description
3.3.1.1)	awpd	share of product inno. in total innovation expenditure share of product inno. (retaining prod. technology) in total inno.	Anteil der Produktinnovationen an gesamten Innovationsaufwendungen Anteil der Produktinnovationen - unter Beibehaltung der Produktionstechnik- an gesamten
3.3.1.2)	awpda	Expenditure	Innovationsaufwendungen
3.3.1.3)	awpdb	share of product inno. (altering prod. technology) in total inno. Expenditure	Anteil der Produktinnovationen - unter Änderung der Produktionstechnik- an gesamten Innovationsaufwendungen
	3.3.2 Process innovations		
No.	Name	Label	German description
			·
3.3.2.1)	awpz	share of process innovations in total innovation expenditure	Anteil der Prozessinnovationen an gesamten Innovationsaufwendungen
3.3.2.2)	awpza	share of expendit. for process innovations with same technology	Anteil Prozessinnovationen in Produktion - unter Beibehaltung des Produktprogramms - an ge
3.3.2.3)	awpzb	share of innov. expenditures in: process innov. administration	Anteil Prozessinnovationen in Büro and Verwaltung an gesamten Innovationsaufwendungen
	3.3.3 Composition of innovation expe	nditures	
No.	Name	Label	German description
3.3.3.1)	aw1	share of research in total innovation expenditures	Anteil der Forschung an Innovationsaufwendungen
3.3.3.2)	aw2	share of experimental dev. in total innovation expenditures share of int. research & experimental dev. in total innovation	Anteil der experimentellen Entwicklung an Innovationsaufwendungen Anteil der internen Forschung and experimentellen Entwicklung an
3.3.3.3)	aw1_2_1	expenditures share of ext. research & experimental dev. in total innovation	Innovationsaufwendungen Anteil der externen Forschung and experimentellen Entwicklung an
3.3.3.4)	aw1_2_2	expenditures	Innovationsaufwendungen
3.3.3.5) 3.3.3.6)	aw3 aw4	share of construction in total innovation expenditures share of product design in total innovation expenditures	Anteil der Konstruktion an Innovationsaufwendungen Anteil des Produktdesigns an Innovationsaufwendungen
3.3.3.7)	aw3_4	share of construction & product design in total innovation	Anteil von Konstruktion & Design an Innovationsaufwendungen
3.3.3.8)	aw5	expenditures share of patents, licences, registered designs in total innovation	Anteil von Patenten, Gebrauchsmustern, Lizenzen an Innovationsaufwendungen
		expenditures share of investment expenditure for prod. preparation in total	Anteil der Investitionsaufwendungen zur Produktionsvorbereitung für Produktinnovation an
3.3.3.9)	aw6	inno. Expenditures share of other expend. for prod. preparation in total inno.	Innovationsaufwendungen Anteil der sonstigen Aufwendungen zur Produktionsvorbereitung für Produktinnovation an
3.3.3.10)	aw7	Expenditures	Innovationsaufwendungen
3.3.3.11)	aw8	share of distribution preparation in total innovation expenditures	Anteil der Absatzvorbereitung an Innovationsaufwendungen
3.3.3.12)	aw9	share of process innovations in production in total innovation expenditure	Anteil der Prozessinnovation für die Produktion an Innovationsaufwendungen
3.3.3.13)	aw10	share of process inno. in admin. in total inno. expend. (incl.	Anteil der Prozessinnovation in Büro and Verwaltung
3.3.3.14)	aw9_10	rationalisation) share of process inno. in prod. & administration in total inno.	Anteil der Prozessinnovation in Produktion and Verwaltung an Innovationsaufwendungen
,		expenditure	o o
	3.3.4 Total innovation expenditures		
No.	Name	Label	German description
3.3.4.1)	awb1	total innovation expenditures with regard to product line	Innovationsaufwendungen für o.g. Erzeugnisbereich
3.3.4.2)	awb2	share of total innovation expenditures in total revenue	Innovationsaufwendungen in % vom Umsatz des o.g. Erzeugnisbereichs
3.3.4.3)	awb3	total innovation expenditures of the company share of innovation expenditures in total revenue of the whole	Innovationsaufwendungen für das gesamte Unternhmen
3.3.4.4)	awb4	company	Innovationsaufwendungen in % vom Gesamtumsatz des Unternehmens
3.4 Innova	tion impulses		
No.	Name	Label	German description
NO.	Name	Label	German description
3.4.1)	imp1	impulse for innovation by R&D (internal)	Innovationsimpulse durch Forschung and Entwicklung (intern)
3.4.2)	imp2	impulse for innovation by production & materials logistics (internal)	Innovationsimpulse durch Produktion & Materialwirtschaft (intern)
3.4.3)	imp3		Innovationsimpulse durch Marketing & Produktbetreuung (intern)
3.4.4)	imp4	impulse for innovation by company suggestion system (internal)	Innovationsimpulse durch betriebliches Vorschlagswesen (intern)
3.4.5)	imp5	impulse for innovation by company management (internal)	Innovationsimpulse durch Firmenleitung (intern)
3.4.6)	imp6	impulse for innovation by joint company (external)	Innovationsimpulse durch verbundenes Unternehmen (extern)
3.4.7) 3.4.8)	imp7 imp8	impulse for innovation by competitors (external) impulse for innovation by suppliers (external)	Innovationsimpulse durch Konkurrenz (extern) Innovationsimpulse durch Lieferanten (extern)
3.4.9)	imp9	impulse for innovation by customers (external)	Innovationsimpulse durch Kunden (extern)
3.4.10) 3.4.11)	imp10 imp11	impulse for innovation by specialist literature (external) impulse for innovation by sciences (external)	Innovationsimpulse durch Fachliteratur (extern) Innovationsimpulse durch Wissenschaftsbereich (extern)
3.4.12)	imp12	impulse for innovation by technology transfer centers (external)	Innovationsimpulse durch Technologietransferstellen (extern)
3.4.13)	imp13	impulse for innovation by patent specifications (external)	Innovationsimpulse durch Patentschriften (extern)
3.4.14)	imp10 13	impulse for inno. by specialist literature & patent	Innovationsimpulse durch Fachliteratur & Patentschriften (extern)

impulse for innovation by exhibitions (external)

specifications(external)

Innovationsimpulse durch Fachliteratur & Patentschriften (extern)

Innovationsimpulse durch Messen, Kongresse etc. (extern)

imp10_13

imp14

3.4.14)

3.4.15)

	3.4.16)	imp15	impulse for innovation by legislation (external)	Innovationsimpulse durch Gesetzgebung (extern)
	3.4.17)	imp16	impulse for innovation by national R&D support programme	Innovationsimpulse durch staatliche R&D-Förderprogramme (extern)
	3.4.18)	imp17	(external) impulse for innovation by intermediate producers (external)	Innovationsimpulse durch Vorprodukthersteller (extern)
			impulse for innovation by producer of investment goods	
	3.4.19)	imp18	(external)	Innovationsimpulse durch Investitionsgüterhersteller (extern)
	3.4.20)	imp19	impulse for innovation by specialist congress (external)	Innovationsimpulse durch Fachkongress (extern)
	3.4.21)	imp20	impulse for innovation by public research institutes (external)	Innovationsimpulse durch öffentliche Forschungsinstitute (extern)
	3.4.22)	imp21	impulse for innovation by private research institutes (external)	Innovationsimpulse durch private Forschungsinstitute (extern)
	3.4.23)	imp22	impulse for innovation by universities (external)	Innovationsimpulse durch Hochschulen (extern)
	3.4.24)	imp23	impulse for innovation by executive consultant (external)	Innovationsimpulse durch Unternehmensberater (extern)
	2 F Obsts	des to imposedione		
	5.5 Obstac	cles to innovations		
		Economic factors		
	NIa	Name	Labol	Common description
	No.	Name	Label	German description
	3.5.1)	hemm1	obstacles to inno. due to: lacking equity capital	Innovationshemmnisse durch fehlendes Eigenkapital
	3.5.2)	hemm2	obstacles to inno. due to: lacking external finance	Innovationshemmnisse durch fehlendes Fremdkapital
	3.5.3)	hemm3	obstacles to inno. due to: too high innovation expenditures	Innovationshemmnisse durch zu hohen Aufwand
	3.5.4)	hemm4	obstacles to inno. due to: too long payback period	Innovationshemmnisse durch zu lange Amortisationsdauer
	3.5.5) 3.5.6)	hemm5 hemm22	obstacles to inno. due to: easy copying of new product obstacles to inno. due to: uncertain market dev.	Innovationshemmnisse, da neues Produkt zu leicht kopierbar Innovationshemmnisse, da Marktentwicklung zu unsicher
	3.3.0)	HCHIIII22	obstacles to mile. due to: uncertain market dev.	innovationshemminsse, aa marktentwicklang za ansiener
		Innovation potential		
	No.	Name	Label	German description
١	110.	unc		Co.man accomption
ı			obstacles to inno, due to low innovation willingness of	
	3.5.7)	hemm6	obstacles to inno. due to: low innovation willingness of employees	Innovationshemmnisse durch zu geringe Innovationsbereitschaft der Mitarbeiter
	3.5.8)	hemm7	obstacles to inno. due to: low innovation willingness of the works	Innovationshemmnisse durch zu geringe Innovationsbereitschaft des Betriebsrats
	·		council obstacles to inno. due to: low innovation willingness of the	
	3.5.9)	hemm8	management	Innovationshemmnisse durch zu geringe Innovationsbereitschaft der Führungskräfte
	3.5.10)	hemm9	obstacles to inno. due to: organisational problems	Innovationshemmnisse durch Organisationsprobleme
	3.5.11)	hemm10	obstacles to inno. due to: lack of qualified R&D staff	Innovationshemmnisse durch Mangel an Fachpersonal im R&D-Bereich
	3.5.12)	hemm11	obstacles to inno. due to: lack of qualified production staff	Innovationshemmnisse durch Mangel an Fachpersonal in der Produktion
	3.5.13)	hemm12	obstacles to inno. due to: lack of qualified sales staff obstacles to inno. due to: lack of cooperation with other	Innovationshemmnisse durch Mangel an Fachpersonal im Absatz Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit anderen
	3.5.14)	hemm13	companies	Unternehmen
	3.5.15)	hemm14	obstacles to inno. due to: lack in coop. willingness of customers	Innovationshemmnisse durch mangelnde Kooperationsbereitschaft bei Lieferanten bzw.
		hemm15	and suppliers obstacles to inno. due to: fully dev. Technology	Kunden Innovationshemmnisse durch ausgereiften Stand der Technik
	3.5.16)			
	3.5.17)	hemm16	obstacles to inno. due to: lack of information on ext. know-how	Innovationshemmnisse durch fehlende Informationen über extern vorhandenes Know-How
	3.5.18)	hemm17	obstacles to inno. due to: difficulties in know-how supply	Innovationshemmnisse durch Schwierigkeiten bei der Beschaffung von externem Know-How
			obstacles to inno. due to: difficulties in implementation of know-	
	3.5.19)	hemm18	obstacles to inno. due to: difficulties in implementation of know- how	Innovationshemmnisse durch Umsetzungsprobleme von technischem Know-How
	3.5.19) 3.5.20)	hemm18 hemm23	·	Innovationshemmnisse durch Umsetzungsprobleme von technischem Know-How Innovationshemmnisse durch Rationalisierungsschutzabkommen
	3.5.20)	hemm23	how obstacles to inno. due to: rationalisation protection agreement	Innovationshemmnisse durch Rationalisierungsschutzabkommen
	3.5.20) 3.5.21)	hemm23 hemm24	how	
	3.5.20)	hemm23	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards
	3.5.20) 3.5.21)	hemm23 hemm24	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit
	3.5.20) 3.5.21) 3.5.22)	hemm23 hemm24 hemm25 other factors	obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten
	3.5.20) 3.5.21)	hemm23 hemm24 hemm25	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit
	3.5.20) 3.5.21) 3.5.22)	hemm23 hemm24 hemm25 other factors	obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten
	3.5.20) 3.5.21) 3.5.22) No.	hemm24 hemm25 other factors Name hemm19	obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24)	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren
	3.5.20) 3.5.21) 3.5.22) No.	hemm24 hemm25 other factors Name hemm19	obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24)	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25)	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25)	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20 hemm21	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25)	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20 hemm21 ocus of innovations	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25)	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20 hemm21	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25)	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20 hemm21 ocus of innovations	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25)	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20 hemm21 ocus of innovations Product innovations	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process obstacles to inno. due to: problems of customer acceptance	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren Innovationshemmnisse durch Akzeptanzprobleme bei Kunden
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25) 3.6 Main f	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20 hemm21 ocus of innovations Product innovations Name	obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process obstacles to inno. due to: problems of customer acceptance	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren Innovationshemmnisse durch Akzeptanzprobleme bei Kunden German description
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25) No. 3.6 Main f	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20 hemm21 ocus of innovations Product innovations Name	obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process obstacles to inno. due to: problems of customer acceptance Label Label main focus of realised innovations: new materials	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren Innovationshemmnisse durch Akzeptanzprobleme bei Kunden German description German description Schwerpunkt der eingeführten Innovationen: neue Materialien
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25) 3.6 Main f	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20 hemm21 ocus of innovations Product innovations Name	obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process obstacles to inno. due to: problems of customer acceptance	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren Innovationshemmnisse durch Akzeptanzprobleme bei Kunden German description
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25) No. 3.6 Main f	hemm23 hemm24 hemm25 other factors Name hemm19 hemm20 hemm21 ocus of innovations Product innovations Name ts1 ts2	obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process obstacles to inno. due to: problems of customer acceptance Label main focus of realised innovations: new materials main focus of future innovations: new materials	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren Innovationshemmnisse durch Akzeptanzprobleme bei Kunden German description Schwerpunkt der eingeführten Innovationen: neue Materialien Schwerpunkt der zukünftigen Innovationen: neue Materialien
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25) No. 3.6.1) 3.6.2) 3.6.3)	hemm24 hemm25 other factors Name hemm19 hemm20 hemm21 ocus of innovations Product innovations Name ts1 ts2 ts3 ts4 ts5	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process obstacles to inno. due to: problems of customer acceptance between the problems of customer acceptance Label main focus of realised innovations: new materials main focus of future innovations: new materials main focus of future innovations: pre-products main focus of future innovations: pre-products main focus of realised innovations: new functional solutions	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren Innovationshemmnisse durch Akzeptanzprobleme bei Kunden German description Schwerpunkt der eingeführten Innovationen: neue Materialien Schwerpunkt der zukünftigen Innovationen: neue Vorprodukte Schwerpunkt der zukünftigen Innovationen: neue Vorprodukte Schwerpunkt der eingeführten Innovationen: neue Vorprodukte Schwerpunkt der eingeführten Innovationen: neue Funktionslösungen
	3.5.20) 3.5.21) 3.5.22) No. 3.5.23) 3.5.24) 3.5.25) 3.6 Main f No. 3.6.1) 3.6.2) 3.6.3) 3.6.4) 3.6.5) 3.6.6)	hemm24 hemm25 other factors Name hemm19 hemm20 hemm21 ocus of innovations Product innovations Name ts1 ts2 ts3 ts4 ts5 ts6	how obstacles to inno. due to: rationalisation protection agreement obstacles to inno. due to: regulation, standardisation obstacles to inno. due to: lack of cooperation with scientific institutes Label obstacles to inno. due to: restrictive legislation obstacles to inno. due to: long administration process obstacles to inno. due to: problems of customer acceptance main focus of realised innovations: new materials main focus of future innovations: new materials main focus of realised innovations: pre-products main focus of future innovations: pre-products main focus of realised innovations: new functional solutions main focus of future innovations: new functional solutions	Innovationshemmnisse durch Rationalisierungsschutzabkommen Innovationshemmnisse durch Normung, Regulierung, Standards Innovationshemmnisse durch unzureichende Kooperationsmöglichkeiten mit wissenschaftlichen Instituten German description Innovationshemmnisse durch zu restriktive Gesetzgebung Innovationshemmnisse durch zu lange Verwaltungsverfahren Innovationshemmnisse durch Akzeptanzprobleme bei Kunden German description Schwerpunkt der eingeführten Innovationen: neue Materialien Schwerpunkt der zukünftigen Innovationen: neue Vorprodukte Schwerpunkt der zukünftigen Innovationen: neue Vorprodukte Schwerpunkt der eingeführten Innovationen: neue Funktionslösungen Schwerpunkt der zukünftigen Innovationen: neue Funktionslösungen
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impulse for innovation by legislation (external)

Innovationsimpulse durch Gesetzgebung (extern)

imp15

3.4.16)

3.6.15)	ts15	main focus of realised innovations: data processing	Schwerpunkt der eingeführten Innovationen: Datenverarbeitung
3.6.16)	ts16	main focus of future innovations: data processing	Schwerpunkt der zukünftigen Innovationen: Datenverarbeitung
3.6.17)	ts17	main focus of realised innovations: text processing	Schwerpunkt der eingeführten Innovationen: Textverarbeitung
3.6.18)	ts18	main focus of future innovations: text processing	Schwerpunkt der zukünftigen Innovationen: Textverarbeitung
3.6.19)	ts19	main focus of realised innovations: inform. and communication technology	Schwerpunkt der eingeführten Innovationen: Kommunikationstechnik
3.6.20)	ts20	main focus of future innovations: inform. and communication techn.	Schwerpunkt der zukünftigen Innovationen: Kommunikationstechnik

3.7 Patent system

No.	Name	Label	German description
3.7.1)	ptw1	growing patent protection due to changed importance of patents	Unternehmen hat Innovationsprojekte zunehmend duch Patente geschützt
3.7.2)	ptw2	patent protection unchanged due to changed importance of patents	Patentschutz für Innovationsprojekte war gleichbleibend
3.7.3)	ptw3	falling patent protection due to changed importance of patents	Patentschutz für Innovationsprojekte hat abgenommen
3.7.4)	ptw4	no patent protection due to changed importance of patents	Unternehmen hat Innovationsprojekte gar nicht duch Patente geschützt
3.7.5)	ptw5	importance of patents changed: strong increase of protection effect	Bedeutung des Patents hinsichtlich des Schutzeffekts hat stark zugenommen
3.7.6)	ptw6	importance of patents changed: little increase of protection effect	Bedeutung des Patents hinsichtlich des Schutzeffekts hat etwas zugenommen
3.7.7)	ptw7	importance of patents changed: unchanged protection effect	Bedeutung des Patents hinsichtlich des Schutzeffekts hat sich nicht verändert
3.7.8)	ptw8	importance of patents changed: little decrease of protection effect	Bedeutung des Patents hinsichtlich des Schutzeffekts hat etwas abgenommen
3.7.9)	ptw9	importance of patents changed: strong decrease of protection effect	Bedeutung des Patents hinsichtlich des Schutzeffekts hat stark abgenommen
3.7.10)	ptw10	importance of patents changed: strong increase of information effect	Bedeutung des Patents hinsichtlich des Informationseffekts hat stark zugenommen
3.7.11)	ptw11	importance of patents changed: little increase of information effect	Bedeutung des Patents hinsichtlich des Informationseffekts hat etwas zugenommen
3.7.12)	ptw12	importance of patents changed: unchanged information effect	Bedeutung des Patents hinsichtlich des Informationseffekts hat sich nicht verändert
3.7.13)	ptw13	importance of patents changed: little decrease of information effect	Bedeutung des Patents hinsichtlich des Informationseffekts hat etwas abgenommen
3.7.14)	ptw14	importance of patents changed: strong decrease of information effect	Bedeutung des Patents hinsichtlich des Informationseffekts hat stark abgenommen
3.7.15)	ptw15	importance of patents changed: possible to keep invention secret	Veränderte Bedeutung des Patents, da Geheimhaltung der Erfindung möglich
3.7.16)	ptw16	importance of patents changed: low amount of invention	Veränderte Bedeutung des Patents, da notwendige Erfindungshöhe nicht vorhanden

3.8 Product life cycle

No.	Name	Label	German description
3.8.1)	plzyk1_1	period between product idea and market launch in years	Dauer der Phasen zwischen Produktidee and Markteinführung in yearen
3.8.2)	plzyk1_2	period between product idea and market launch in months	Dauer der Phasen zwischen Produktidee and Markteinführung in monthen
3.8.3)	plzyk2_1	period between market launch and product improvement/abandoning in years	Dauer der Phasen zwischen Markteinführung and Verbesserung bzw. Aufgabe des Produkts in yearen
3.8.4)	plzyk2_2	period between market launch and product improvement/ abandoning in months	Dauer der Phasen zwischen Markteinführung and Verbesserung bzw. Aufgabe des Produkts in monthen
3.8.5)	plzyk3	phase between product idea and market launch shortened	Verringerte Dauer der Phasen zwischen Produktidee and Markteinführung
3.8.6)	plzyk4	phase between product idea and market launch unchanged	Unveränderte Dauer der Phasen zwischen Produktidee and Markteinführung
3.8.7)	plzyk5	phase between product idea and market launch longer	Verlängerte Dauer der Phasen zwischen Produktidee and Markteinführung
3.8.8)	plzyk6	phase betw. market launch and product improv./abandoning: shortened	Verringerte Dauer der Phasen zwischen Markteinführung and Verbesserung bzw. Aufgabe des Produkts
3.8.9)	plzyk7	phase betw. market launch and product improv./abandoning: unchanged	Unveränderte Dauer der Phasen zwischen Markteinführung and Verbesserung bzw. Aufgabe des Produkts
3.8.10)	plzyk8	phase betw. market launch and product improv./abandoning: longer	Verlängerte Dauer der Phasen zwischen Markteinführung and Verbesserung bzw. Aufgabe des Produkts
3.8.11)	plzyk9	reason for change of plzyk1_1 phase: technological progress	Technologische Fortschritte als Ursache für Veränderung in plzyk1_1
3.8.12)	plzyk10	reason for change of plzyk1_1 phase: changed behaviour of consumers	Verhaltensänderung der Nachfrager als Ursache für Veränderung in plzyk1_1
3.8.13)	plzyk11	reason for change of plzyk1_1 phase: domestic competition	Inländische Konkurrenz als Ursache für Veränderung in plzyk1_1
3.8.14)	plzyk12	reason for change of plzyk1_1 phase: foreign competition	Ausländische Konkurrenz als Ursache für Veränderung in plzyk1_1
3.8.15)	plzyk13	reason for change of plzyk1_1 phase: legal regulations	Gesetzliche Vorschriften als Ursache für Veränderung in plzyk1_1
3.8.16)	plzyk14	reason for change of plzyk2_1 phase: technological progress	Technologische Fortschritte als Ursache für Veränderung in plzyk2_1
3.8.17)	plzyk15	reason for change of plzyk2_1 phase: changed behaviour of consumers	Verhaltensänderung der Nachfrager als Ursache für Veränderung in plzyk2_1
3.8.18)	plzyk16	reason for change of plzyk2_1 phase: domestic competition	Inländische Konkurrenz als Ursache für Veränderung in plzyk2_1
3.8.19)	plzyk17	reason for change of plzyk2_1 phase: foreign competition	Ausländische Konkurrenz als Ursache für Veränderung in plzyk2_1
3.8.20)	plzyk18	reason for change of plzyk2_1 phase: legal regulations	Gesetzliche Vorschriften als Ursache für Veränderung in plzyk2_1

3.9 R&D strategies

No.	Name	Label	German description
3.9.1)	fues1	R&D realised by internal R&D division	R&D-Arbeiten werden von betriebsinterner R&D-Abteilung durchgeführt
3.9.2)	fues2	R&D realised by central internal R&D institution, domestic	R&D-Arbeiten werden von zentraler R&D-Einrichtung des Unternehmens im Inland durchgeführt
3.9.3)	fues3	R&D realised by central internal R&D institution, foreign	R&D-Arbeiten werden von zentraler R&D-Einrichtung des Unternehmens im Ausland durchgeführt
3.9.4)	fues4	R&D realised by external domestic R&D institution	R&D-Arbeiten werden von externer R&D-Einrichtung im Inland durchgeführt
3.9.5)	fues5	R&D realised by external foreign R&D institution	R&D-Arbeiten werden von externer R&D-Einrichtung im Ausland durchgeführt
3.9.6)	fues6	external R&D institutions are: big research institution	Unter externen R&D-Einrichtungen sind Großforschungseinrichtungen
3.9.7)	fues7	external R&D institutions are: institutes of universities	Unter externen R&D-Einrichtungen sind Universitätsinstitute
3.9.8)	fues8	external R&D institutions are: institutes of universities of applied science	Unter externen R&D-Einrichtungen sind Fachhochschulinstitute
3.9.9)	fues9	external R&D institutions are: institutes of the Fraunhofer Gesellschaft	Unter externen R&D-Einrichtungen sind Institute der Fraunhofer-Gesellschaft
3.9.10)	fues10	external R&D institutions are: other research institutes	Unter externen R&D-Einrichtungen sind andere Forschungsinstitute
3.9.11)	fues11	external R&D institutions are: foreign research institutes	Unter externen R&D-Einrichtungen sind ausländische Forschungseinrichtungen
3.9.12)	fues12	no R&D cooperations with other companies	Keine vertragliche R&D-Kooperationen mit anderen Unternehmen
3.9.13)	fues13	R&D cooperations with other companies	Vertragliche R&D-Kooperationen mit anderen Unternehmen
3.9.14)	fues14	R&D cooperations with other companies with same range of products	Vertragliche R&D-Kooperationen mit Unternehmen mit gleichem Produktspektrum
3.9.15)	fues15	R&D cooperations with other companies with different range of products	Vertragliche R&D-Kooperationen mit Unternehmen mit anderem Produktspektrum

3.10 Innovation risks

No.	Name	Label	German description
3.10.1)	innrisk1	current innovation risks due to plagiarism	Innovationserfolg gegenwärtig beeinträchtigt durch fehlenden Design-Schutz
3.10.2)	innrisk2	current innovation risks due to product liability risks	Innovationserfolg gegenwärtig beeinträchtigt durch Produkthaftungsrisiken
3.10.3)	innrisk3	no current innovation risks due to plagiarism	Innovationserfolg gegenwärtig nicht beeinträchtigt durch fehlenden Design-Schutz
3.10.4)	innrisk4	no current innovation risks due to product liability risks	Innovationserfolg gegenwärtig nicht beeinträchtigt durch Produkthaftungsrisiken
3.10.5)	innrisk5	innovation risks due to plagiarism in the next 5 years	Innovationserfolg in nächsten 5 yearen beeinträchtigt durch fehlenden Design-Schutz
3.10.6)	innrisk6	innovation risks due to product liability risks in the next 5 years	Innovationserfolg in nächsten 5 yearen beeinträchtigt durch Produkthaftungsrisiken
3.10.7)	innrisk7	no innovation risks due to plagiarism in the next 5 years	Innovationserfolg in nächsten 5 yearen nicht beeinträchtigt durch fehlenden Design-Schutz
3.10.8)	innrisk8	no innovation risks due to product liability risks in the next 5 year	rs Innovationserfolg in nächsten 5 yearen nicht beeinträchtigt durch Produkthaftungsrisiken

3.11 Sales structure of product innovations

lo.	Name	Label	German description
.11.1)	avp1	share of new products in total revenue in %	Anteil neuer Produkte am gesamten Umsatz des Erzeugnisbereiches
.11.2)	avp2	sales of new products in agriculture and forestry	Absatz von neuen Produkten im Sektor Land-und Forstwirtschaft
.11.3)	avp3	sales of new products in fishing sector	Absatz von neuen Produkten im Fischereisektor
.11.4)	avpproz1	i e	Anteil des Absatzes neuer Produkte in den Sektoren Land-und Forstwirtschaft and Fisch
		products	an Gesamtabsatz neuer Produkte
.11.5)	avp4	sales of new products in energy sector	Absatz von neuen Produkten im Sektor Energieversorgung
.11.6)	avp5	sales of new products in water supply sector	Absatz von neuen Produkten im Sektor Wasserversorgung
.11.7)	avp6	sales of new products in mining sector	Absatz von neuen Produkten im Bergbausektor
.11.8)	avpproz2	share of new products sold to energy sector etc. in total sales of new products	Anteil des Absatzes neuer Produkte in den Sektoren Energie- and Wasserversorgung an
.11.9)	avp7	sales of new products in chemical industry	Bergbau an Gesamtabsatz neuer Produkte Absatz von neuen Produkten im Chemiesektor
.11.10)		sales of new products in oil industry	Absatz von neuen Produkten in Mineralölindustrie
	avp8	sales of new products in the rubber industry	Absatz von neuen Produkten in Gummiindustrie
.11.11)	avp9		
.11.12)	avp10	sales of new products in plastics industry	Absatz von neuen Produkten in Kunststoffindustrie
.11.13)	avp11	sales of new products in glass industry	Absatz von neuen Produkten in Glasindustrie
.11.14)	avp12	sales of new products in the ceramics industry	Absatz von neuen Produkten im Sektor Feinkeramik
.11.15)	avp13	sales of new products in stone and earth industry	Absatz von neuen Produkten im Sektor Steine and Erden
.11.16)	avnnroz2	share of new products sold to chemical industry etc. in total sales	Anteil des Absatzes neuer Produkte in den Sektoren Chemie, Feinkeramik and Steine ar Erden sowie in Mineralöl-, Gummi-, Kunststoff- and Glasindustrie an Gesamtabsatz neu
11.10)	avpproz3	of new products	Produkte
.11.17)	avp14	sales of new products in iron and steel producing industry	Absatz von neuen Produkten in Eisen- and Stahlindustrie
.11.18)	avp15	sales of new products in metal production industry	Absatz von neuen Produkten in NE-Metallindustrie
.11.19)	avp16	sales of new products in foundry industry	Absatz von neuen Produkten im Gießereisektor
11.20)	avp10 avp17	sales of new products in drawing plant sector	Absatz von neuen Produkten im Ziehereisektor
·		share of new products sold to metal production industry in total	Anteil des Absatzes neuer Produkte in Eisen- and Stahl- and NE-Metallindustrie sowie in
.11.21)	avpproz4	sales of new products	Gießerei- and Ziehereisektoren an Gesamtabsatz neuer Produkte
.11.22)	avp18	sales of new products in steel construction industry	Absatz von neuen Produkten im Stahlbausektor
11.23)	avp19	sales of new products in machine building industry	Absatz von neuen Produkten im Maschinenbausektor
11.24)	avp20	sales of new products in vehicle building industry	Absatz von neuen Produkten im Fahrzeugbaubausektor
		sales of new products in office and data processing equipment-	-
11.25)	avp21	sector	Absatz von neuen Produkten im Sektor Büromaschinen and ADV-Einrichtungen
44.26\		share of new products sold to steel construction industry etc. in	Anteil des Absatzes neuer Produkte in Sektoren Stahl-, Maschinen-, and Fahrzeugbau a
11.26)	avpproz5	total sales of new products	Büromaschinen u. ADV-Einrichtungen an Gesamtabsatz neuer Produkte
.11.27)	avp22	sales of new products in electrical engineering	Absatz von neuen Produkten im Sektor Elektrotechnik
11.28)	avp23	sales of new products in fine mechanics, optics, watches sector	Absatz von neuen Produkten im Sektor Feinmechanik, Optik, Uhren
11.20)	ανμ23	sales of fiew products in fine friedrames, optics, wateries sector	Absatz von nederi i rodukten im Sektor reinineenank, Optik, Omen
11.29)	avp24	sales of new products in iron(sheet)/ metal goods	Absatz von neuen Produkten im Sektor EBM-Waren
.11.30)	avp25	sales of new products in instruments, toys, sports equipment,	Absatz von neuen Produkten im Sektor Musikinstrumente, Spielwaren, Sportgeräte,
,		jewelry sector	Schmuck
.11.31)	avpproz6	share of new products sold to electrical engineering industry etc.	Anteil des Absatzes neuer Produkte in Sektoren Elektrotechnik, Feinmechanik, Optik, U
11 22\	nun36	in total sales of new products	EBM-Waren, Musikinstrumente, Spielwaren, Sportgeräte, Schmuck an Gesamtabsatz ne
.11.32)	avp26	sales of new products in the timber industry	Absatz von neuen Produkten in Holzindustrie
.11.33)	avp27	sales of new products in paper industry	Absatz von neuen Produkten in Papier- and Pappeindustrie
11.34)	avp28	sales of new products in printing industry	Absatz von neuen Produkten in Druckindustrie
.11.35)	avpproz7	new products	Anteil des Absatzes neuer Produkte in Holz-, Papier- and Pappe- and Druckindustrie an Gesamtabsatz neuer Produkte
.11.36)	avp29	sales of new products in leather fabrication industry	Absatz von neuen Produkten in Lederindustrie
		sales of new products in the textile industry	Absatz von neuen Produkten in Textilindustrie
11.37)	avp30		
11.38)	avp31	sales of new products in the clothing industry	Absatz von neuen Produkten in Bekleidungsindustrie
11.39)	avpproz8	share of new products sold to leather fabrication industry etc. in total sales of new products	Anteil des Absatzes neuer Produkte in Leder-, Textil- and Bekleidungsindustrie an Gesamtabsatz neuer Produkte
11.40)	avp32	sales of new products in food industry	Absatz von neuen Produkten in Nahrungsmittelindustrie
·			-
11.41)	avp33	sales of new products in beverage industry	Absatz von neuen Produkten in Getränkeindustrie
11.42)	avp34	sales of new products in tobacco industry	Absatz von neuen Produkten in Tabakindustrie Antoil des Absatzes neuer Produkte in Nahrungsmittel Getränke and Tabakindustrie
11.43)	avpproz9	share of new products sold to food industry etc. in total sales of new products	Anteil des Absatzes neuer Produkte in Nahrungsmittel-, Getränke-, and Tabakindustrie Gesamtabsatz neuer Produkte
11.44)		new products sales of new products in building industry	Absatz von neuen Produkten in Bauindustrie
±±.44)	avp35	share of new products sold to building industry in total sales of	
11.45)	avpproz10	new products	Anteil des Absatzes neuer Produkte in Bauindustrie an Gesamtabsatz neuer Produkte
11.46)	avp36	sales of new products in commerce	Absatz von neuen Produkten im Handelssektor
11.47)	avp37	sales of new products in the transport sector	Absatz von neuen Produkten im Verkehrssektor
11.47)		sales of new products in the mail service sector	Absatz von neuen Produkten im Postsektor
. ±. + ∪)	avp38	·	Anteil des Absatzes neuer Produkte in Handels-, Verkehrs-, and Postsektoren an
11.49)	avpproz11	products	Gesamtabsatz neuer Produkte
11.50)	avp39	sales of new products in credit sector	Absatz von neuen Produkten an Kreditinstitute
11.51)	avp40	sales of new products in insurance industry	Absatz von neuen Produkten im Versicherungssektor
		·	Anteil des Absatzes neuer Produkte an Kreditinstitute and im Versicherungssektor an
L1.52)	avpproz12	sales of new products	Gesamtabsatz neuer Produkte
11.53)	avp41	sales of new products in appartment rental sector	Absatz von neuen Produkten im Wohnungsvermietungssektor
11.54)	avp42	sales of new products in hospitality industry	Absatz von neuen Produkten im Gastgewerbe
		share of new products sold to appartment rental sector and	Anteil des Absatzes neuer Produkte im Wohnungsvermietungssektor and im Gastgewe
11.55)	avpproz13	hospitality industry in total sales of new products	an Gesamtabsatz neuer Produkte
11.56)	avp43	sales of new products to science, education, art	Absatz von neuen Produkten im Sektor Wissenschaft, Bildung, Kunst, Verlage
•			Anteil des Absatzes neuer Produkte im Sektor Wissenschaft, Bildung, Kunst, Verlage an
44 55	avpproz14	of new products	Gesamtabsatz neuer Produkte
11.57)		sales of new products to the state	Absatz von neuen Produkten an den Staat
	avp44		
11.58)		chara of now products cold to state in total calcalet accounts to	Antail das Absatzas novas Produkta an dan Staat an Cosamtahasta novas Produkt
11.57) 11.58) 11.59)	avp44 avpproz15	share of new products sold to state in total sales of new products	Anteil des Absatzes neuer Produkte an den Staat an Gesamtabsatz neuer Produkte
11.58)		sales of new products to private households	Anteil des Absatzes neuer Produkte an den Staat an Gesamtabsatz neuer Produkte Absatz von neuen Produkten an private Haushalte
11.58) 11.59)	avpproz15		

3.12 Innovation strategy and European internal market

	Product strategy		
No.	Name	Label	German description
3.12.1)	ieb1	no changes in product strategy	Keine Änderung in der Produktstrategie
3.12.2)	ieb2	more standardised products to reduce unit costs	Mehr standardisierte Produkte für Stückkosteneinsparungen erforderlich
3.12.3)	ieb3	more differentiation within array of products	Höhere Differenzierung des Produktangebots erforderlich
	Production strategy		
No	Nama	Lahal	Corman description
No.	Name	Label	German description
3.12.4)	ieb4	no changes in production strategy	Keine Änderung in der Produktionsstrategie
3.12.5)	ieb5	increase in rationalisation investments	Verstärkte Rationalisierungsinvestitionen erforderlich
3.12.6)	ieb6	expansion of domestic production capacity	Ausbau inländischer Produktionskapazität
3.12.7)	ieb7	relocation of production to EC area	Teile der Produktion verlagert in EG-Raum
3.12.8)	ieb8	relocation of production to other areas	Teile der Produktion verlagert in andere Regionen außerhalb des EG-Raums
3.12.9)	ieb9	cooperation with other companies from EC	Produktionskooperation mit anderen Unternehmen aus EG-Wirtschaftsraum
	Distribution strategy		
No.	Name	Label	German description
NO.	Name	Label	German description
3.12.10)	ieb10	no changes in distribution strategy	Keine Änderung in der Vertriebssstrategie
3.12.11)	ieb11	distribution in EC by expansion of internal distribution facilities	EG-weiter Vertrieb über Ausbau unternehmenseigener Vertriebseinrichtungen
2 (2 (2)	:142	distribution in EC by distribution systems of cooperating	
3.12.12)	ieb12	companies	EG-weiter Vertrieb über Vertriebssysteme kooperierender Unternehmen
3.12.13)	ieb13	distribution in EC by assignment of institutions outside the own	EG-weiter Vertrieb über Inanspruchnahme branchenfremder Einrichtungen
		sector intensified participation in exhibitions within EC	Verstärkte Teilnahme an Messen in EG-Mitgliedsländern
3.12.14)	ieb14	intensined participation in exhibitions within EC	verstarkte reilitatitite att iviessett itt EG-ivitigheustaffuerti
	R&D strategy		
No.	Name	Label	German description
3.12.15)	ieb15	no changes in R&D strategy	Keine Änderung in der R&D-Strategie
3.12.13)	10010	no changes in hab strategy	nome / macraily in der hab or dregic

Verstärkung der internen R&D-Aktivitäten durch zusätzliches R&D-Personal

Aufbau von R&D-Kapazitäten in anderen EG-Ländern

R&D-Kooperation mit anderen inländischen Unternehmen/ Wissenschaftseinrichtungen

R&D-Kooperation mit anderen Unternehmen/ Wissenschaftseinrichtungen im europäischen

additional R&D staff to intensify R&D activities

creation of R&D capacities in other EC-countries

European countries

R&D coop. with domestic companies/scientific institutions

R&D coop. with companies/scientific institutions from other

3.13 Design strategies

ieb16

ieb17

ieb18

ieb19

3.12.16)

3.12.17)

3.12.18)

3.12.19)

No.	Name	Label	German description
3.13.1)	ds1	innovation strategy at domestic market: prices as compared to competitors	Innovationsstrategie auf dem Inlandsmarkt: Preise im Vergleich zu Konkurrenten
3.13.2)	ds2	innovation strategy at domestic market: quality as compared to competitors	Innovationsstrategie auf dem Inlandsmarkt: Qualität im Vergleich zu Konkurrenten
3.13.3)	ds3	innovation strategy at foreign markets: prices as compared to competitors	Innovationsstrategie auf dem Auslandsmarkt: Preise im Vergleich zu Konkurrenten
3.13.4)	ds4	innovation strategy at foreign markets: quality as compared to competitors	Innovationsstrategie auf dem Auslandsmarkt: Qualität im Vergleich zu Konkurrenten
3.13.5)	ds5	attitude of customers towards technical innovations	Einstellung der Kunden gegenüber technischen Neuentwicklungen
3.13.6)	ds6	attitude of customers towards technical advancements	Einstellung der Kunden gegenüber technischen Weiterentwicklungen
3.13.7)	ds7	attitude of customers towards formal redesigns	Einstellung der Kunden gegenüber formalen Neugestaltungen
3.13.8)	ds8	attitude of customers towards formal variant developments	Einstellung der Kunden gegenüber formalen Variantenentwicklungen
3.13.9)	ds9	current importance of design for marketing	Gegenwärtige Bedeutung des Designs für die Vermarktung
3.13.10)	ds10	future importance of design for marketing	Zukünftige Bedeutung des Designs für die Vermarktung
3.13.11)	ds11	design activities directed at industrial design	Designaktivitäten richten sich auf Produktgestaltung
3.13.12)	ds12	design activities directed at communicational design	Designaktivitäten richten sich auf Produktgrafik
3.13.13)	ds13	design activities directed at product packging	Designaktivitäten richten sich auf Produktverpackung
3.13.14)	ds14	design activities directed at other design	Designaktivitäten richten sich auf sonstiges Design
3.13.15)	ds15	design tasks are solved by designers (internal)	Designaufgaben werden von Designern gelöst (intern)
3.13.16)	ds16	design tasks are solved by other employees (internal)	Designaufgaben werden von anderen Berufsgruppen gelöst (intern)
3.13.17)	ds17	design tasks are solved by freelance designers (external)	Designaufgaben werden von freiberuflichen Designern gelöst (extern)
3.13.18)	ds18	design tasks are solved by design agencies (external)	Designaufgaben werden von Designerbüros gelöst (extern)
3.13.19)	ds19	design tasks are solved by consulting engineers (external)	Designaufgaben werden von Ingenieurbüros gelöst (extern)
3.13.20)	ds20	design tasks are solved by advertising agencies (external)	Designaufgaben werden von Werbeagenturen gelöst (extern)

3.14 Marketing strategies in the 1990s

No.	Name	Label	German description
3.14.1)	ms90j1	change in sales sit. due to competitors from West Germany	Veränderung der Absatzsituation durch Konkurrenten aus der BRD
3.14.2)	ms90j2	change in sales sit. due to competitors from East Germany	Veränderung der Absatzsituation durch Konkurrenten aus der DDR
3.14.3)	ms90j3	change in sales sit. due to competitors from EC and western Europe	Veränderung der Absatzsituation durch Konkurrenten aus der EG and Westeuropa
3.14.4)	ms90j4	change in sales sit. due to competitors from eastern Europe	Veränderung der Absatzsituation durch Konkurrenten aus Easteuropa
3.14.5)	ms90j5	change in sales sit. due to competitors from the US	Veränderung der Absatzsituation durch Konkurrenten aus den USA
3.14.6)	ms90j6	change in sales sit. due to competitors from Japan	Veränderung der Absatzsituation durch Konkurrenten aus Japan
3.14.7)	ms90j7	change in sales sit. due to competitors from emerging econ. in Southeast Asia	Veränderung der Absatzsituation durch Konkurrenten aus Schwellenländern Südost-Asiens
3.14.8)	ms90j8	necessary reaction to competitors: low prices	Notwendige Reaktion auf Konkurrenz: niedrige Preise
3.14.9)	ms90j9	necessary reaction to competitors: higher product quality	Notwendige Reaktion auf Konkurrenz: bessere Produktqualität
3.14.10)	ms90j10	necessary reaction to competitors: product innovations	Notwendige Reaktion auf Konkurrenz: Produktinnovationen
3.14.11)	ms90j11	necessary reaction to competitors: services	Notwendige Reaktion auf Konkurrenz: Dienstleistungsangebote
3.14.12)	ms90j12	necessary reaction to competitors: distribution channel strategie	s Notwendige Reaktion auf Konkurrenz: Vertriebswege-Strategien

3.14.13)	ms90j13	necessary reaction to competitors: advertisement/ sales promotion	Notwendige Reaktion auf Konkurrenz: Werbung/ Verkaufsförderung
3.14.14)	ms90j14	necessary reaction to competitors: market power	Notwendige Reaktion auf Konkurrenz: Marktbeherrschung
3.14.15)	ms90j15	necessary reaction to competitors: world market orientation	Notwendige Reaktion auf Konkurrenz: Weltmarktorientierung
3.14.16)	ms90j16	necessary reaction to demand: market saturation	Notwendige Reaktion auf die Nachfrage: Marktsättigung
3.14.17)	ms90j17	necessary reaction to demand: differentiation/individualisation	Notwendige Reaktion auf die Nachfrage: Differenzierung bzw. Individualisierung
3.14.18)	ms90j18	necessary reaction to demand: security risks	Notwendige Reaktion auf die Nachfrage: Sicherheitsrisiken
3.14.19)	ms90j19	necessary reaction to demand: pollution of environment	Notwendige Reaktion auf die Nachfrage: Umweltbelastung
3.14.20)	ms90j20	necessary reaction to demand: age structure of population	Notwendige Reaktion auf die Nachfrage: Altersstruktur der Bevölkerung
3.14.21)	ms90j21	necessary reaction to demand: demand concentration	Notwendige Reaktion auf die Nachfrage: Konzentration der Nachfrage
3.14.22)	ms90j22	necessary reaction to demand: sales market East Germany	Notwendige Reaktion auf die Nachfrage: Absatzmarkt DDR
3.14.23)	ms90j23	necessary reaction to demand: sales market eastern Europe	Notwendige Reaktion auf die Nachfrage: Absatzmarkt Easteuropa
3.14.24)	ms90j24	change of sales strategy in: distribution/sales channels	Änderung der Absatzstrategie im Bereich: Vertriebs-/Absatzwegepolitik
3.14.25)	ms90j25	change of sales strategy in: product/programm policy	Änderung der Absatzstrategie im Bereich: Produkt-/Programmpolitik
3.14.26)	ms90j26	change of sales strategy in: price/ conditions policy	Änderung der Absatzstrategie im Bereich: Preis-/Konditionenpolitik
3.14.27)	ms90j27	change of sales strategy in: advertisement/ sales promotion	Änderung der Absatzstrategie im Bereich: Werbung/Verkaufsförderungk
3.14.28)	ms90j28	change of sales strategy in: technical customer support	Änderung der Absatzstrategie im Bereich: technische Kundenbetreuung
3.14.29)	ms90j29	change of sales strategy in: provision of new services	Änderung der Absatzstrategie im Bereich: Bereitstellung neuer Dienstleistungen
3.14.30)	ms90j30	change of sales strategy in: delegation of marketing tasks to other companies	Änderung der Absatzstrategie im Bereich: Übertragung von Marketingaufgaben an andere Unternehmen

3.16 Fördermaßnahmen auf dem Gebiet der Forschung, Entwicklung oder Innovat

No.	Name	Label	German description
3.16.1) 3.16.2)			
3.16.2)			

3.15 R&D in the New Laender

No.	Name	Label	German description
3.15.1)	fue_nb1	previous placing of R&D orders to companies/institutes in the New Laender	Frühere Vergabe von R&D-Aufträgen an Unternehmen/Institute in den neuen Bundesländer
3.15.2)	fue_nb2	planned placing of R&D orders to companies/institutes in the	Geplante vergabe von R&D-Aufträgen an Unternehmen/Institute in den neuen
5.15.2)		New Laender (current year)	Bundesländern in aktuellem year
2 15 2\	fue nh2	percentage share of total inno. expend. spent on R&D orders in	Anteil von R&D-Aufträgen in neuen Bundesländern an gesamten Investitionsaufwendungen
3.15.3)	fue_nb3	the New Laender	des aktuellen yeares

3.16 Economic impact of innovation

No.	Name	Label	German description
3.16.1)	we1	innovation objective: revenue	Umsatz als Ziel
3.16.2)	we2	innovation objective: profit	Gewinn als Ziel
3.16.3)	we3	innovation objective: market share	Marktanteil als Ziel
3.16.4)	we4	innovation objective: competitiveness	Wettbewerbsfähigkeit als Ziel
3.16.5)	we5	innovation objective: labour productivity	Arbeitsproduktivität als Ziel
3.16.6)	we6	impact of innovations on revenue	Einfluss der Innovationen auf den Umsatz
3.16.7)	we7	impact of innovations on profit	Einfluss der Innovationen auf den Gewinn
3.16.8)	we8	impact of innovations on market share	Einfluss der Innovationen auf den Marktanteil
3.16.9)	we9	impact of innovations on competitiveness	Einfluss der Innovationen auf die Wettbewerbsfähigkeit
3.16.10)	we10	impact of innovations on labour productivity	Einfluss der Innovationen auf die Arbeitsproduktivität
3.16.11)	we11	percentage increase in revenue due to innovations	Prozentuale Zunahme im Umsatz aufgrund von Innovationen
3.16.12)	we12	percentage increase in profit due to innovations	Prozentuale Zunahme im Gewinn aufgrund von Innovationen
3.16.13)	we13	percentage increase in labour productivity due to innovations	Prozentuale Zunahme in der Arbeitsproduktivität aufgrund von Innovationen
3.16.14)	we14	percentage increase in market share due to innovations	Prozentuale Zunahme im Marktanteil aufgrund von Innovationen
3.16.15)	we15	no impact of innovations on revenue	Kein Einfluss von Innovationen auf Umsatz
3.16.16)	we16	no impact of innovations on profits	Kein Einfluss von Innovationen auf Gewinn
3.16.17)	we17	no impact of innovations on productivity	Kein Einfluss von Innovationen auf Arbeitsproduktivität
3.16.18)	we18	no impact of innovations on market share	Kein Einfluss von Innovationen auf Marktanteil
3.16.19)	we19	percentage decrease in revenue due to innovations	Prozentuale Abnahme im Umsatz aufgrund von Innovationen
3.16.20)	we20	percentage decrease in profit due to innovations	Prozentuale Abnahme im Gewinn aufgrund von Innovationen
3.16.21)	we21	percentage decrease in labour productivity due to innovations	Prozentuale Abnahme in der Arbeitsproduktivität aufgrund von Innovationen
3.16.22)	we22	percentage decrease in market share due to innovations	Prozentuale Abnahme im Marktanteil aufgrund von Innovationen
3.16.23)	we23	share of new products in total revenue	Anteil neuer Produkte an Gesamtumsatz
3.16.24)	we24	share of exported new products in sales of new products	Anteil der exportierten neuen Produkte am Gesamtabsatz der neuen Produkte

3.17 Procurement and transfer of technologies

Procurement of technologies

No.	Name	Label	German description
3.17.1)	bt1	company has procured new technologies	Unternehmen hat neue Technologien beschafft
3.17.2)	bt2	company has not procured new technologies	Unternehmen hat keine neuen Technologien beschafft
3.17.3)	bt3	procurement through licences from domestic companies	Technologiebeschaffung über Lizenzen von inländischen Unternehmen
3.17.4)	bt4	procurement through licences from companies in EC	Technologiebeschaffung über Lizenzen von Unternehmen aus der EG
3.17.5)	bt5	procurement through licences from European companies outside EC	Technologiebeschaffung über Lizenzen von europäischen Unternehmen außerhalb der EG
3.17.6)	bt6	procurement through licences from US-companies	Technologiebeschaffung über Lizenzen von Unternehmen aus den USA
3.17.7)	bt7	procurement through licences from Japanese companies	Technologiebeschaffung über Lizenzen von Unternehmen aus Japan
3.17.8)	bt8	procurement through licenses from others	Technologiebeschaffung durch Nutzungsrechte/Lizenzen von Unternehmen aus anderen Ländern
3.17.9)	bt9	procurement through consultancy services by domestic companies	Technologiebeschaffung über Beratungsleistungen von inländischen Unternehmen
3.17.10)	bt10	procurement through consultancy services by companies from EC	Technologiebeschaffung über Beratungsleistungen von Unternehmen aus der EG
3.17.11)	bt11	procurement through consultancy services by European companies outside EC	Technologiebeschaffung über Beratungsleistungen von europäischen Unternehmen außerhalb der EG
3.17.12)	bt12	procurement through consultancy services by US-companies	Technologiebeschaffung über Beratungsleistungen von Unternehmen aus den USA

3.17.13)	bt13	procurement through consultancy services by Japanese companies	Technologiebeschaffung durch Nutzung von Beratungsleistungen von Japan-Unternehmen
3.17.14)	bt14	procuremnt through consultancy services by other companies	Technologiebeschaff. durch Nutzung von Beratungsleist. von Unternehmen aus anderen Ländern
3.17.15)	bt15	procurement through external R&D services by domestic companies	Technologiebeschaffung über externe R&D-Leistungen von inländischen Unternehmen
3.17.16)	bt16	procurement through external R&D services by companies from EC	Technologiebeschaffung über externe R&D-Leistungen von Unternehmen aus der EG
3.17.17)	bt17	procurement through external R&D services by European companies outside EC	Technologiebeschaffung über externe R&D-Leistungen von europäischen Unternehmen außerhalb der EG
3.17.18)	bt18	procurement through external R&D services by US-companies	Technologiebeschaffung über externe R&D-Leistungen von Unternehmen aus den USA
3.17.19)	bt19	procurement through external R&D services by Japanese companies	Technologiebeschaffung durch externe R&D-Leistungen von Japan-Unternehmen
3.17.20)	bt20	procurement through external R&D services by other companies	Technologiebeschaffung durch externe R&D-Leistungen von Unternehmen aus anderen Ländern
3.17.21)	bt21	procurement through acquisition of (part of) domestic company	Technologiebeschaffung über Kauf eines inländischen Unternehmens(teils)
3.17.22)	bt22	procurement through acquisition of (part of) company in EC	Technologiebeschaffung über Kauf eines Unternehmens(teils) aus der EG
3.17.23)	bt23	procurement through acquisition of (part of) European company	Technologiebeschaffung über Kauf eines europäischen Unternehmens(teils) außerhalb der
3.17.24)	bt24	outside EC procurement through acquisition of (part of) US-company	Technologiebeschaffung über Kauf eines Unternehmens(teils) aus den USA
		procurement through acquisition of (part of) Japanese company	Technologiebeschaffung durch Kauf eines Unternehmens(teils) von Japan-Unternehmen
3.17.25)	bt25	procurement through acquisition of (part of) Japanese company	
3.17.26)	bt26	procurement through acquisition of (part of) other company	Technologiebeschaff. durch Kauf eines Unternehmens(teils) von Untern. aus anderen Ländern
3.17.27)	bt27	procurement through purchase of machines from domestic companies	Technologiebeschaffung über Kauf von Maschinen/Anlagen von inländischen Unternehmen
3.17.28)	bt28	procurement through purchase of machines from companies in EC	Technologiebeschaffung über Kauf von Maschinen/Anlagen von Unternehmen aus der EG
3.17.29)	bt29	procurement through purchase of machines from European companies outside EC	Technologiebeschaffung über Kauf von Maschinen/Anlagen von europäischen Unternehmen außerhalb der EG
3.17.30)	bt30	procurement through purchase of machines from US-companies	Technologiebeschaffung über Kauf von Maschinen/Anlagen von Unternehmen aus den USA
3.17.31)	bt31	procurement through purchase of machines from Japanese companies	Technologiebeschaffung über Kauf von Maschinen/Anlagen von Unternehmen aus Japan
3.17.32)	bt32	procurement through purchase of machines from other companies	
3.17.33)	bt33	procurement through recruitment of specialist staff from domestic companies	Technologiebeschaffung über Einstellung von Fachpersonal von inländischen Unternehmen
3.17.34)	bt34	procurement through recruitment of specialist staff from companies in EC	Technologiebeschaffung über Einstellung von Fachpersonal von Unternehmen aus der EG
3.17.35)	bt35	procurement through recruitment of specialist staff from Europ. Comp. Outside EC	Technologiebeschaff. durch Kauf von Maschinen/Anlagen von Unternehmen aus anderen Ländern
3.17.36)	bt36	procurement through recruitment of specialist staff from US- companies	Technologiebeschaffung über Einstellung von Fachpersonal von Unternehmen aus den USA
3.17.37)	bt37	procurement through recruitment of specialist staff from Japanese companies	Technologiebeschaffung durch Einstellung von Fachpersonal von Japan-Unternehmen
3.17.38)	bt38	procurement through recruitment of specialist staff from other countries	Technologiebeschaff. durch Einstellung von Fachpersonal von Unternehmen aus anderen Ländern
3.17.39)	bt39	other ways of procurement from domestic companies	Andere Arten der Technologiebeschaffung von inländischen Unternehmen
3.17.40)	bt40	other ways of procurement from companies in EC	Andere Arten der Technologiebeschaffung von Unternehmen aus der EG
3.17.41)	bt41	other ways of procurement from European countries outside EC	Technologiebeschaff. durch andere Arten der Beschaffung von Nicht-EG-Unternehmen
3.17.42)	bt42	other ways of procurement from US-companies	Andere Arten der Technologiebeschaffung von Unternehmen aus den USA
3.17.43)	bt43	other ways of procurement from Japanese companies	Technologiebeschaffung durch andere Arten der Beschaffung von Japan-Unternehmen
3.17.44)	bt44	other ways of procurement from other companies	Technologiebeschaff. durch andere Arten der Beschaffung von Unternehmen aus anderen Ländern
3.17.45)	bt45	procurement from domestic parent, subsidiary or affiliated company	Technologiebeschaffung von inländischen Mutter-, Tochter- oder Schwesterunternehmen
3.17.46)	bt46	procurement from parent, subsidiary or affiliated company in EC	Technologiebeschaffung von Mutter-, Tochter- oder Schwesterunternehmen aus der EG
3.17.47)	bt47	procurement from European parent, subsidiary or affiliated company outside EC	Technologiebeschaffung von europäischen Mutter-, Tochter- oder Schwesterunternehmen außerhalb der EG
3.17.48)	bt48	procurement from parent, subsidiary or affiliated company in the US	Technologiebeschaffung von Mutter-, Tochter- oder Schwesterunternehmen aus den USA
3.17.49)	bt49	procurement from parent, subsidiary or affiliated company in Japan	Technologiebeschaffung aus Mutter-, Tochter- oder Schwesterunternehmen in Japan
3.17.50)	bt50	procurement from parent, subsidiary or affiliated company in other coountries	Technologiebeschaff. aus Mutter-, Tochter- oder Schwesterunternehmen in anderem Land

Transfer of technologies

No.	Name	Label	German description
3.17.51)	tt1	company has transferred new technologies	Unternehmen hat neue Technologien transferiert
3.17.52)	tt2	company has not transferred new technologies	Unternehmen hat keine neuen Technologien transferiert
3.17.53)	tt3	transfer through licences to domestic companies	Technologietransfer über Lizenzen an inländische Unternehmen
3.17.54)	tt4	transfer through licences to companies in EC	Technologietransfer über Lizenzen an Unternehmen in der EG
3.17.55)	tt5	transfer through licences to European companies outside EC	Technologietransfer über Lizenzen an europäische Unternehmen außerhalb der EG
3.17.56)	tt6	transfer through licences to US-companies	Technologietransfer über Lizenzen an Unternehmen in den USA
3.17.57)	tt7	transfer through licences to Japanese companies	Technologietransfer über Lizenzen an Unternehmen in Japan
3.17.58)	tt8	transfer through licences to companies in other countries outside Europe	Technologietransfer über Lizenzen an Unternehmen in anderen außereuropäischen Ländern
3.17.59)	tt9	transfer through consultancy services to domestic companies	Technologietransfer über Beratungsleistungen für inländische Unternehmen
3.17.60)	tt10	transfer through consultancy services to companies in EC	Technologietransfer über Beratungsleistungen für Unternehmen in der EG
3.17.61)	tt11	transfer through consultancy services to European companies outside EC	Technologietransfer über Beratungsleistungen für europäische Unternehmen in der EG
3.17.62)	tt12	transfer through consultancy services to US-companies	Technologietransfer über Beratungsleistungen für Unternehmen in den USA
3.17.63)	tt13	transfer through consultancy services to Japanese companies	Technologietransfer über Beratungsleistungen für Unternehmen in Japan
3.17.64)	tt14	transfer through consultancy services to companies in other countries	Technologietransfer über Beratungsleistungen für Unternehmen in anderen außereuropäischen Ländern
3.17.65)	tt15	transfer through R&D services to domestic companies	Technologietransfer über R&D-Leistungen für inländische Unternehmen
3.17.66)	tt16	transfer through R&D services to companies in EC	Technologietransfer über R&D-Leistungen für Unternehmen in der EG
3.17.67)	tt17	transfer through R&D services to European companies outside EC	Technologietransfer über R&D-Leistungen für europäische Unternehmen außerhalb der EG
3.17.68)	tt18	transfer through R&D services to US-companies	Technologietransfer über R&D-Leistungen für Unternehmen in den USA
3.17.69)	tt19	transfer through R&D services to Japanese companies	Technologietransfer durch R&D-Leistungen an Japan-Unternehmen
3.17.70)	tt20	transfer through R&D services to other companies	Technologietransfer durch R&D-Leistungen an Unternehmen aus anderen Ländern
3.17.71)	tt21	transfer through selling (part of) the company to domestic companies	Technologietransfer durch Verkauf eines Unternehmens(teils) an inländische Unternehmen
3.17.72)	tt22	transfer through selling (part of) the company to companies in EC	Technologietransfer durch Verkauf eines Unternehmens(teils) an EG-Unternehmen
3.17.73)	tt23	transfer through selling (part of) the company to European companies outside EC	Technologietransfer durch Verkauf eines Unternehmens(teils) an Nicht-EG-Unternehmen
3.17.74)	tt24	transfer through selling (part of) the company to US-companies	Technologietransfer durch Verkauf eines Unternehmens(teils) an USA-Unternehmen
3.17.75)	tt25	transfer through selling (part of) the company to Japanese companies	Technologietransfer durch Verkauf eines Unternehmens(teils) an Japan-Unternehmen
3.17.76)	tt26	transfer through selling (part of) the company to other companies	Technologietransfer durch Verkauf eines Unternehmens(teils) an Untern. aus anderen Ländern

3.17.77)	tt27	transfer by selling machines to domestic companies	Technologietransfer über Verkauf von Maschinen/Anlagen an inländische Unternehmen
3.17.78)	tt28	transfer by selling machines to companies in EC	Technologietransfer über Verkauf von Maschinen/Anlagen an Unternehmen in der EG
3.17.79)	tt29	transfer by selling machines to European companies outside EC	Technologietransfer über Verkauf von Maschinen/Anlagen an europäisches Unternehmen außerhalb der EG
3.17.80)	tt30	transfer by selling machines to US-companies	Technologietransfer über Verkauf von Maschinen/Anlagen an Unternehmen in den USA
3.17.81)	tt31	transfer by selling machines to Japanese companies	Technologietransfer über Verkauf von Maschinen/Anlagen an Unternehmen in Japan
3.17.82)	tt32	transfer by selling machines to companies in other countries	Technologietransfer über Verkauf von Maschinen/Anlagen an Unternehmen in anderen außereuropäischen Ländern
3.17.83)	tt33	transfer by deploying specialist staff to domestic companies	Technologietransfer über Einsatz von Fachpersonal bei inländischen Unternehmen
3.17.84)	tt34	transfer by deploying specialist staff to companies in EC	Technologietransfer über Einsatz von Fachpersonal bei Unternehmen in der EG
3.17.85)	tt35	transfer by deploying specialist staff to European companies outside EC	Technologietransfer über Einsatz von Fachpersonal bei europäischen Unternehmen außerhalb der EG
3.17.86)	tt36	transfer by deploying specialist staff to US-companies	Technologietransfer über Einsatz von Fachpersonal bei Unternehmen in den USA
3.17.87)	tt37	transfer by deploying specialist staff to Japanese companies	Technologietransfer über Einsatz von Fachpersonal bei Unternehmen in Japan
3.17.88)	tt38	transfer by deploying specialist staff to companies in other countries	Technologietransfer über Einsatz von Fachpersonal bei Unternehmen in anderen außereuropäischen Ländern
3.17.89)	tt39	other ways of transferring to domestic companies	Andere Arten des Technologietransfers an inländische Unternehmen
3.17.90)	tt40	other ways of transferring to companies in EC	Technologietransfer durch andere Arten des Transfers an EG-Unternehmen
3.17.91)	tt41	other ways of transferring to European companies outside EC	Andere Arten des Technologietransfers an europäische Unternehmen außerhalb der EG
3.17.92)	tt42	other ways of transferring to US-companies	Technologietransfer durch andere Arten des Transfers an USA-Unternehmen
3.17.93)	tt43	other ways of transferring to Japanese companies	Technologietransfer durch andere Arten des Transfers an Japan-Unternehmen
3.17.94)	tt44	other ways of transferring to companies in other countries	Technologietransfer durch andere Arten des Transfers an Unternehmen aus anderen Ländern
3.17.95)	tt45	transfer to domestic parent, subsidiary or affiliated company	Technologietransfer an inländische Mutter-, Tochter- oder Schwesterunternehmen
3.17.96)	tt46	transfer to parent, subsidiary or affiliated company within EC	Technologietransfer an Mutter-, Tochter- oder Schwesterunternehmen in der EG
3.17.97)	tt47	transfer to European parent, subsidiary or affiliated company outside EC	Technologietransfer an europäische Mutter-, Tochter- oder Schwesterunternehmen außerhalb der EG
3.17.98)	tt48	transfer to parent, subsidiary or affiliated company in the US	Technologietransfer an Mutter-, Tochter- oder Schwesterunternehmen in den USA
3.17.99)	tt49	transfer to parent, subsidiary or affiliated company in Japan	Technologietransfer an Mutter-, Tochter- oder Schwesterunternehmen in Japan
3.17.100)	tt50	transfer to parent, subsidiary or affiliated company in other countries	Technologietransfer an Mutter-, Tochter- oder Schwesterunternehmen in anderen außereuropäischen Ländern

3.18 R&D activities

No.	Name	Label	German description
3.18.1)	fue1	company has carried out R&D	Unternehmen hat R&D-Arbeiten durchgeführt
3.18.2)	fue2	company carries out R&D on regular basis	Unternehmen führt regelmäßig R&D-Arbeiten durch
3.18.3)	fue3	share of product innovations in R&D expenditures	Anteil der R&D-Aufwendungen für Produktinnovationen
3.18.4)	fue4	share of process innovations in R&D expenditures	Anteil der R&D-Aufwendungen für Prozessinnovationen
3.18.5)	fue5	company plans R&D during next 3 years	Unternehmen plant R&D-Aktivitäten während der nächsten 3 yeare
3.18.6)	fue6	R&D organised in form of: central R&D department	R&D organisiert in Form von: zentralen Abteilungen
3.18.7)	fue7	R&D organised in form of: decentralised R&D departments	R&D organisiert in Form von: dezentralen Abteilungen
3.18.8)	fue8	R&D organised in form of: problem-specific project groups	R&D organisiert in Form von: problembezogenen Projektgruppen
3.18.9)	fue9	R&D organised by entrepreneur himself	F&E durch Unternehmer selbst
3.18.10)	fue10	share of R&D expenditures in total revenue	Anteil der R&D-Aufwendungen am yearesumsatz in %
3.18.11)	fue11	future development of R&D expenditures	Entwicklung der R&D-Aufwendungen

3.19 R&D cooperations

No.	Name	Label	German description
3.19.1)	fueko1	company has participated in R&D cooperations	Unternehmen hat sich an R&D-Kooperationen beteiligt
3.19.2)	fueko2	company has not participated in R&D cooperations	Unternehmen hat sich nicht an R&D-Kooperationen beteiligt
3.19.3)	fueko3	R&D cooperations with domestic customers	R&D-Kooperationen mit inländischen Kunden
3.19.4)	fueko4	R&D cooperations with customers in EC	R&D-Kooperationen mit Kunden in der EG
3.19.5)	fueko5	R&D cooperations with European customers outside EC	R&D-Kooperationen mit europäischen Kunden außerhalb der EG
3.19.6)	fueko6	R&D cooperations with US-customers	R&D-Kooperationen mit Kunden in den USA
3.19.7)	fueko7	R&D cooperations with Japanese customers	R&D-Kooperationen mit Kunden in Japan
3.19.8)	fueko8	R&D cooperations with customers in other countries outside Europe	R&D-Kooperationen mit Kunden in anderen außereuropäischen Ländern
3.19.9)	fueko9	R&D cooperations with domestic suppliers	R&D-Kooperationen mit inländischen Lieferanten
3.19.10)	fueko10	R&D cooperations with suppliers from EC	R&D-Kooperationen mit Lieferanten aus der EG
3.19.11)	fueko11	R&D cooperations with European suppliers outside EC	R&D-Kooperationen mit europäischen Lieferanten außerhalb der EG
3.19.12)	fueko12	R&D cooperations with US-suppliers	R&D-Kooperationen mit Lieferanten aus den USA
3.19.12)	fueko13	R&D cooperations with Japanese suppliers	R&D-Kooperationen mit Lieferanten aus Japan
3.13.13)		R&D cooperations with suppliers from other countries outside	
3.19.14)	fueko14	Europe	R&D-Kooperationen mit Lieferanten aus anderen außereuropäischen Ländern
3.19.15)	fueko15	R&D cooperation with domestic parent, subsidiary, affiliated company	R&D-Kooperationen mit inländischen Mutter-, Tochter- oder Schwesterunternehmen
3.19.16)	fueko16	R&D cooperation with parent, subsidiary, affiliated company in E0	C R&D-Kooperationen mit Mutter-, Tochter- oder Schwesterunternehmen in der EG
3.19.17)	fueko17	R&D cooperation with European parent, subsidiary, affiliated company outside EC	R&D-Kooperationen mit europäischen Mutter-, Tochter- oder Schwesterunternehmen außerhalb der EG
3.19.18)	fueko18	R&D cooperation with parent, subsidiary, affiliated company in the US	R&D-Kooperationen mit Mutter-, Tochter- oder Schwesterunternehmen in den USA
3.19.19)	fueko19	R&D cooperation with Japanese parent, subsidiary, affiliated company	R&D-Kooperationen mit Mutter-, Tochter- oder Schwesterunternehmen in Japan
3.19.20)	fueko20	R&D cooperation with parent, subsidiary, affiliated company in	R&D-Kooperationen mit Mutter-, Tochter- oder Schwesterunternehmen in anderen
	fuels 21	other country	außereuropäischen Ländern
3.19.21)	fueko21	R&D cooperations with domestic competitors	R&D-Kooperationen mit inländischen Wettbewerbern
.19.22)	fueko22	R&D cooperations with competitors from EC	R&D-Kooperationen mit Wettbewerbern aus der EG
3.19.23)	fueko23	R&D cooperations with European competitors outside EC	R&D-Kooperationen mit europäischen Wettbewerbern außerhalb der EG
3.19.24)	fueko24	R&D cooperations with US-competitors	R&D-Kooperation mit Wettbewerbern in den USA
3.19.25)	fueko25	R&D cooperations with Japanese competitors	R&D-Kooperationen mit Wettbewerbern aus Japan
3.19.26)	fueko26	R&D cooperations with other competitors	R&D-Kooperation mit Wettbewerbern in anderen Ländern
3.19.27)	fueko27	R&D cooperations with domestic consultants	R&D-Kooperationen mit inländischen Beratern
3.19.28)	fueko28	R&D cooperations with consultants from EC	R&D-Kooperation mit Beratern aus der EG
3.19.29)	fueko29	R&D cooperations with European consultants outside EC	R&D-Kooperationen mit europäischen Beratern außerhalb der EG
3.19.30)	fueko30	R&D cooperations with US-consultants	R&D-Kooperation mit Beratern aus den USA
3.19.31)	fueko31	R&D cooperations with with Japanese consultants	R&D-Kooperation mit Beratern aus Japan
3.19.32)	fueko32	R&D cooperations with consultants from other countries	R&D-Kooperation mit Beratern aus anderen Ländern
3.19.33)	fueko33	R&D cooperations with domestic research institutes (public)	R&D-Kooperationen mit inländischen Forschungsinstituten (öffentlich)
3.19.34)	fueko34	R&D cooperations with research institutes from EC (public)	R&D-Kooperationen mit Forschungsinstituten aus der EG (öffentlich)
3.19.35)	fueko35	R&D coop. with research institutes from European countries outside EC (public)	R&D-Kooperation mit öffentl. Forschungseinrichtungen aus Nicht-EG innerh. Europa
3.19.36)	fueko36	R&D cooperations with US-research institutes (public)	R&D-Kooperation mit öffentl. Forschungseinrichtungen aus den USA
3.19.37)	fueko37	R&D cooperations with research institutes from Japan (public)	R&D-Kooperation mit öffentl. Forschungseinrichtungen aus Japan

3.19.38)	fueko38	R&D cooperations with research institutes from other country (public)	R&D-Kooperation mit öffentl. Forschungseinrichtungen aus anderen Ländern
3.19.39)	fueko39	R&D cooperations with domestic research institutes (private)	R&D-Kooperationen mit inländischen Forschungsinstituten (privat)
3.19.40)	fueko40	R&D cooperations with research institutes from EC (private)	R&D-Kooperationen mit Forschungsinstituten aus der EG (privat)
3.19.41)	fueko41	R&D coop. with research institutes from European countries outside EC (private)	R&D-Kooperation mit privaten Forschungsinstituten aus Nicht-EG innerh. Europa
3.19.42)	fueko42	R&D cooperations with research institutes from the USA (private)	R&D-Kooperation mit privaten Forschungsinstituten aus den USA
3.19.43)	fueko43	R&D cooperations with research institutes from Japan (private)	R&D-Kooperation mit privaten Forschungsinstituten aus Japan
3.19.44)	fueko44	R&D cooperations with research institutes from other country (private)	R&D-Kooperation mit privaten Forschungsinstituten aus anderen Ländern
3.19.45)	fueko45	R&D cooperations with domestic universities	R&D-Kooperationen mit inländischen Hochschulen
3.19.46)	fueko46	R&D cooperations with universities from EC	R&D-Kooperationen mit Hochschulen aus der EG
3.19.47)	fueko47	R&D cooperations with universities from European countries outside EC	R&D-Kooperation mit Hochschulen aus Nicht-EG innerh. Europa
3.19.48)	fueko48	R&D cooperations with universities from the USA	R&D-Kooperation mit Hochschulen aus den USA
3.19.49)	fueko49	R&D cooperations with universities from Japan	R&D-Kooperation mit Hochschulen aus Japan
3.19.50)	fueko50	R&D cooperations with universities from other countries	R&D-Kooperation mit Hochschulen aus anderen Ländern
3.19.51)	fueko51	R&D cooperations with domestic institutes for joint research	R&D-Kooperationen mit inländischen Instituten für Gemeinschaftsforschung
3.19.52)	fueko52	R&D cooperations with institutes for joint research from EC	R&D-Kooperation mit Instituten für Gemeinschaftsforschung innerh. EG
3.19.53)	fueko53	R&D coop. with institutes for joint research from European countries outside EC	R&D-Kooperation mit Instituten für Gemeinschaftsforschung nicht EG innerh. Europa
3.19.54)	fueko54	R&D cooperations with institutes for joint research from the USA	R&D-Kooperation mit Instituten für Gemeinschaftsforschung in den USA
3.19.55)	fueko55	R&D cooperations with institutes for joint research from Japan	R&D-Kooperation mit Instituten für Gemeinschaftsforschung in Japan
3.19.56)	fueko56	R&D cooperations with institutes for joint research from other countries	R&D-Kooperation mit Instituten für Gemeinschaftsforschung in anderen Ländern
3.19.57)	fueko57	other ways of R&D cooperations with domestic companies	R&D-Kooperation mit anderen Kooperationspartnern im Inland
3.19.58)	fueko58	other ways of R&D cooperations with companies from EC	R&D-Kooperation mit anderen Kooperationspartnern innerh. EG
3.19.59)	fueko59	other ways of R&D cooperations with companies from European countries outside EC	R&D-Kooperation mit anderen Kooperationspartnern nicht EG innerh. Europa
3.19.60)	fueko60	other ways of R&D cooperations with US-companies	R&D-Kooperation mit anderen Kooperationspartnern in den USA
3.19.61)	fueko61	other ways of R&D cooperations with companies from Japan	R&D-Kooperation mit anderen Kooperationspartnern in Japan
3.19.62)	fueko62	other ways of R&D cooperations with companies from other countries	R&D-Kooperation mit anderen Kooperationspartnern in anderen Ländern

3.20 Structure of the product range

No.	Name	Label	German description
3.20.1)	sps1	share of products which remained unchanged in total revenue	Anteil der im wesentlichen unveränderten Produkte am Gesamtumsatz
3.20.2)	sps2	share of products which changed slightly in total revenue	Anteil der geringfügig veränderten Produkte am Gesamtumsatz
3.20.3)	sps3	share of products which changed significantly in total revenue	Anteil der wesentlich veränderten/gänzlich neuen Produkte am Gesamtumsatz
3.20.4)	sps4	share of products which remained unchanged in export revenue	Anteil der im wesentlichen unveränderten Produkte am Exportumsatz
3.20.5)	sps5	share of products which changed slightly in export revenue	Anteil der geringfügig veränderten Produkte am Exportumsatz
3.20.6)	sps6	share of products which changed significantly in export revenue	Anteil der wesentlich veränderten/gänzlich neuen Produkte am Exportumsatz
3.20.7)	sps7	share of innovative products new to company in total revenue	Umsatzanteil innovativer Produkte, die für das Unternehmen neu waren
3.20.8)	sps8	share of innovative products new to sector in total revenue	Umsatzanteil innovativer Produkte, die für die Branche neu waren

3.21 Competitiveness and technology

No.	Name	Label	German description
3.21.1)	wft1	competitiveness as compared to Japanese competitors	Wettbewerbsfähigkeit gegenüber Konkurrenten aus Japan
3.21.2)	wft2	competitiveness as compared to Southeast Asian competitors	Wettbewerbsfähigkeit gegenüber Konkurrenten aus Südostasien
3.21.3)	wft3	competitiveness as compared to competitors from USA	Wettbewerbsfähigkeit gegenüber Konkurrenten aus den USA
3.21.4)	wft4	competitiveness as compared to competitors from EC and Western Europe	Wettbewerbsfähigkeit gegenüber Konkurrenten aus der EG and Westeuropa
3.21.5)	wft5	competitiveness as compared to competitors from Eastern Europe	Wettbewerbsfähigkeit gegenüber Konkurrenten aus Easteuropa
3.21.6)	wft6	competitiveness in general	Wettbewerbsfähigkeit insgesamt
3.21.7)	wft7	importance of new technologies for competitiveness	Bedeutung neuer Technologien für die Wettbewerbsfähigkeit
3.21.8)	wft8	focus of technological competition: new materials	Fokus des Technologiewettbewerbs liegt auf: neuen Materialien
3.21.9)	wft9	focus of technological competition: new intermediate products	Fokus des Technologiewettbewerbs liegt auf: neuen Vorprodukten
3.21.10)	wft10	focus of technological competition: new functional solutions	Fokus des Technologiewettbewerbs liegt auf: neuen Funktionslösungen
3.21.11)	wft11	focus of technological competition: fundamentally new products	Fokus des Technologiewettbewerbs liegt auf: grundlegend neuen Produkten
3.21.12)	wft12	focus of technological competition: new production and process technologies	Fokus des Technologiewettbewerbs liegt auf: neuen Fertigungs- and Verfahrenstechniken
3.21.13)	wft13	focus of technological competition: further automation	Fokus des Technologiewettbewerbs liegt auf: weiterer Automatisierung
3.21.14)	wft14	focus of technological competition: new technical organisational structures	Fokus des Technologiewettbewerbs liegt auf: neuen technisch-organisatorischen Strukturen
3.21.15)	wft15	obst.to dev. of new materials: financing	Hemmnisse bei Entwicklung neuer Materialien liegen im Bereich: Finanzierung
3.21.16)	wft16	obst. to dev. of new intermediate products: financing	Hemmnisse bei Entwicklung neuer Vorprodukte liegen im Bereich: Finanzierung
3.21.17)	wft17	obst. to dev. of new functional solutions: financing	Hemmnisse bei Entwicklung neuer Funktionslösungen liegen im Bereich: Finanzierung
3.21.18)	wft18	obst. to dev. of fundamentally new products: financing	Hemmnisse bei Entwicklung grundlegend neuer Produkte liegen im Bereich: Finanzierung
3.21.19)	wft19	obst. to dev. of new production and process technologies: financing	Hemmnisse bei Entwicklung neuer Fertigungs- oder Verfahrenstechniken liegen im Bereich: Finanzierung
3.21.20)	wft20	obst. to further automation: financing	Hemmnisse bei weiterer Automatisierung liegen im Bereich: Finanzierung
3.21.21)	wft21	obst. to dev. of new technical organisational structures: financing	Hemmnisse bei Entwicklung neuer technisch-organisatorischer Strukturen liegen im Bereich: Finanzierung
3.21.22)	wft22	obst. to dev. of new materials: information, consulting	Hemmnisse bei Entwicklung neuer Materialien liegen im Bereich: Information, Beratung
3.21.23)	wft23	obst. to dev.of new intermediate products: information, consulting	Hemmnisse bei Entwicklung neuer Vorprodukte liegen im Bereich: Information, Beratung
3.21.24)	wft24	obst. to dev. of new functional solutions: information, consulting	Hemmnisse bei Entwicklung neuer Funktionslösungen liegen im Bereich: Information, Beratung
3.21.25)	wft25	obst. to dev. of fundamentally new products: information, consulting	Hemmnisse bei Entwicklung grundlegend neuer Produkte liegen im Bereich: Information, Beratung
3.21.26)	wft26	obst. to dev. of new production and process technologies: info.,	Hemmnisse bei Entwicklung neuer Fertigungs- oder Verfahrenstechniken liegen im Bereich:
	wft27	consulting obst. to further automation: information, consulting	Information, Beratung Hemmnisse bei weiterer Automatisierung liegen im Bereich: Information, Beratung
3.21.27)		obst. to dev. of new technical organisational structures: info.,	Hemmnisse bei Entwicklung neuer technisch-organisatorischer Strukturen liegen im Bereich:
3.21.28)	wft28	consulting	Information, Beratung
3.21.29)	wft29	obst. to dev. of new materials: qualification of employees	Hemmnisse bei Entwicklung neuer Materialien wegen Qualifikation der Mitarbeiter

3.21.30)	wft30	obst. to dev.of new intermediate products: qualification of employees	Hemmnisse bei Entwicklung neuer Vorprodukte wegen Qualifikation der Mitarbeiter
3.21.31)	wft31	obst. to dev. of new functional solutions: qualification of employees	Hemmnisse bei Entwicklung neuer Funktionslösungen wegen Qualifikation der Mitarbeiter
3.21.32)	wft32	obst. to dev. of fundamentally new products: qualification of employees	Hemmnisse bei Entwicklung grundlegend neuer Produkte wegen Qualifikation der Mitarbeiter
3.21.33)	wft33	obst. to dev. of new prod. and process technologies: qualification of employees	Hemmnisse bei Entwicklung neuer Fertigungs- oder Verfahrenstechniken wegen Qualifikation der Mitarbeiter
3.21.34)	wft34	obst. to further automation: qualification of employees	Hemmnisse bei weiterer Automatisierung wegen Qualifikation der Mitarbeiter
3.21.35)	wft35	obst. to dev. of new technical organisational structures: qualification of employees	Hemmnisse bei Entwicklung neuer technisch-organisatorischer Strukturen wegen Qualifikation der Mitarbeiter
3.21.36)	wft36	obst. to dev. of new materials: technology procurement (external	Hemmnisse bei Entwicklung neuer Materialien liegen im Bereich: Technologiebeschaffung (extern)
3.21.37)	wft37	obst. to dev. of new intermediate products: technology procurement (external)	Hemmnisse bei Entwicklung neuer Vorprodukte liegen im Bereich: Technologiebeschaffung (extern)
3.21.38)	wft38	obst. to dev. of new functional solutions: technology procurement (external)	Hemmnisse bei Entwicklung neuer Funktionslösungen liegen im Bereich: Technologiebeschaffung (extern)
3.21.39)	wft39	obst. to dev. of fundamentally new products: technology procurement (external)	Hemmnisse bei Entwicklung grundlegend neuer Produkte liegen im Bereich: Information, Beratung
3.21.40)	wft40	obst. to dev. of new production and process technologies: tech. procurement (external)	Hemmnisse bei Entwicklung neuer Fertigungs- oder Verfahrenstechniken liegen im Bereich: Technologiebeschaffung (extern)
3.21.41)	wft41	obst. to further automation: technology procurement (external)	Hemmnisse bei weiterer Automatisierung liegen im Bereich: Technologiebeschaffung (extern)
3.21.42)	wft42	obst. to dev. of new technical org. structures: tech.procurement (external)	Hemmnisse bei Entwicklung neuer technisch-organisatorischer Strukturen liegen im Bereich: Technologiebeschaffung (extern)
3.21.43)	wft43	overcoming of obst. requires support by professional association	Zur Überwindung der Hemmnisse wird Unterstützung durch Fachverbände benötigt
3.21.44)	wft44	overcoming of obst. requires support on federal state level	Zur Überwindung der Hemmnisse wird Unterstützung auf Länderebene benötigt
3.21.45)	wft45	overcoming of obst. requires support on federal level	Zur Überwindung der Hemmnisse wird Unterstützung auf Bundesebene benötigt
		1 11	

3.22 Innovation and cooperation

No.	Name	Label	German description
3.22.1)	iuk1	innovation cooperations with other companies/institutions	Innovationskooperationen mit anderen Unternehmen/Institutionen
3.22.2)	iuk2	no innovation cooperations with other companies/institutions	Keine Innovationskooperationen mit anderen Unternehmen/Institutionen
3.22.3)	iuk3	form of innovation cooperation: joint venture	Kooperationsform: Joint Venture
3.22.4)	iuk4	form of innovation cooperation: agreement about R&D	Kooperationsform: R&D-Vereinbarung
3.22.5)	iuk5	form of innovation cooperation: agreements about technology exchange	Kooperationsform: Vereinbarung zum Technologieaustausch
3.22.6)	iuk6	form of innovation cooperation: informal information exchange	Kooperationsform: informeller Informationsaustausch
3.22.7)	iuk7	form of innovation cooperation: minority shareholding	Kooperationsform: Minderheitsbeteiligung an innovativen Firmen
3.22.8)	iuk8	form of innovation cooperation: placing of R&D orders	Kooperationsform: Erteilung von R&D-Aufträgen an andere Firmen/Institutionen
3.22.9)	iuk9	form of innovation cooperation: other forms	Kooperationsform: andere Kooperationsformen
3.22.10)	iuk10	goal of cooperations: long-term commitment	Ziel von Kooperationen: langfristiges Engagement
3.22.11)	iuk11	goal of cooperations: short-term realization of single R&D plans	Ziel von Kooperationen: kurzfristige Realisierung einzelner R&D-Vorhaben

3.27 Forschungs and Entwicklungstätigkeit im Unternehmen

No.	Name	Label	German description
3.11.1)			
3.11.2) 3.11.3)			
3.11.3)			
3.11.4)			
3.11.5) 3.11.6)			
3.11.6)			
3.11.7)			
3.11.8)			
3.11.9)			
3.11.10)			
3.11.11)			

3.23 Adoption of external ideas/ inventions

No.	Name	Label	German description
3.23.1)	extid1	innovations based on own ideas/inventions/findings of the company	Innovationen basieren auf Ideen/Erfindungen des eigenen Unternehmens
3.23.2)	extid2	innovations based on ideas/inventions/findings of external private persons	Innovationen basieren auf Ideen/Erfindungen externer Privatpersonen
3.23.3)	extid3	innovations based on ideas/inventions/findings of external research institutions	Innovationen basieren auf Ideen/Erfindungen externer Wissenschaftseinrichtungen
3.23.4)	extid4	innovations based on ideas/inventions/findings of external companies	Innovationen basieren auf Ideen/Erfindungen externer Unternehmen
3.23.5)	extid5	innovations based on ideas/inventions/findings of others	Innovationen basieren auf Ideen/Erfindungen Sonstiger
3.23.6)	extid6	stage of external ideas/inventions/findings when adopted: idea/conception	Externe Ideen waren zum Zeitpunkt der Übernahme in Phase: Idee/Konzepterstellung
3.23.7)	extid7	stage of external ideas/inventions/findings when adopted: R&D	Externe Ideen waren zum Zeitpunkt der Übernahme in Phase: R&D
3.23.8)	extid8	stage of external ideas/inventions/findings when adopted: launch of production	Externe Ideen waren zum Zeitpunkt der Übernahme in Phase: Produktionseinführung
3.23.9)	extid9	stage of external ideas/inventions/findings when adopted: marketing	Externe Ideen waren zum Zeitpunkt der Übernahme in Phase: Vermarktung
3.23.10)	extid10	external ideas implemented in cooperation with inventor: yes, several	Externe Ideen wurden gemeinsam mit Ideenträger/Erfinder umgesetzt: ja, mehrere
3.23.11)	extid11	external ideas implemented in cooperation with inventor: yes, one	Externe Ideen wurden gemeinsam mit Ideenträger/Erfinder umgesetzt: ja, eine
3.23.12)	extid12	external ideas implemented in cooperation with inventor: none	Externe Ideen wurden gemeinsam mit Ideenträger/Erfinder umgesetzt: nein, keine
3.23.13)	extid13	participation of inventors through: employment in existing company	Einbindung der Ideenträger/Erfinder über: Anstellung im besteh. Unternehmen
3.23.14)	extid14	participation of inventors through: employment in new company	Einbindung der Ideenträger/Erfinder über: Anstellung in neuem Unternehmen
3.23.15)	extid15	participation of inventors through: consulting or cooperation contract	Einbindung der Ideenträger/Erfinder über: Berater-, Kooperationsvertrag
3.23.16)	extid16	participation of inventors through: others	Einbindung der Ideenträger/Erfinder über: Sonstiges

3.24 Our company in the market

No.	Name	Label	German description
3.24.1)	uum1a	own share in German market revenues	Anteil des Erzeugnisbereichs am Umsatz auf dem deutschen Markt
3.24.2)	uum1b	own share in world market revenues	Anteil des Erzeugnisbereichs am Umsatz auf dem Weltmarkt
3.24.3)	uum2a	share of largest competitor in German market revenues	Anteil des größten Wettbewerbers am Umsatz auf dem deutschen Markt
3.24.4)	uum2b	share of largest competitor in world market revenues	Anteil des größten Wettbewerbers am Umsatz auf dem Weltmarkt
3.24.5)	uum3a	share of second/third largest competitors in German market revenues	Anteil der zweit- and drittgrößten Wettbewerber am Umsatz auf dem deutschen Markt
3.24.6)	uum3b	share of second/third largest competitors in world market revenues	Anteil der zweit- and drittgrößten Wettbewerber am Umsatz auf dem Weltmarkt
3.24.7)	uum4	acquisition of another company during last 5 years	Aufkauf eines anderen Unternehmens
3.24.8)	uum4a	year of acquisition of another company	year des Aufkaufes des anderen Unternehmens
3.24.9)	uum5	acquisition by another company during last 5 years	Übernahme durch anderes Unternehmen
3.24.10)	uum5a	year of acquisition by another company	year der Übernahme durch anderes Unternehmen
3.24.11)	uum6	fusion with another company during last 5 years	Zusammenschluss mit anderem Unternehmen
3.24.12)	uum6a	year of fusion with another company	year des Zusammenschlusses mit anderem Unternehmen
3.24.13)	uum7	company arised from company division during last 5 years	Unternehmen ging aus der Aufteilung eines anderen hervor
3.24.14)	uum7a	year of company division	year der Aufteilung des anderen Unternehmens

3.25 Abilities and skills

No.	Name	Label	German description
NO.	Name	Label	German description
3.25.1)	komp1	importance of scientific skills of employees for innovations	Bedeutung von naturwissenschaftlichen Fähigkeiten der Mitarbeiter für Innovationen
3.25.2)	komp2	importance of mathematic skills of employees for innovations	Bedeutung von mathematischen Fähigkeiten der Mitarbeiter für Innovationen
3.25.3)	komp3	importance of technical skills of employees for innovations	Bedeutung von technischen Fähigkeiten der Mitarbeiter für Innovationen
3.25.4)	komp4	importance of management skills of employees for innovations	Bedeutung von Managementfähigkeiten der Mitarbeiter für Innovationen
3.25.5)	komp5	importance of reliability of employees for innovations	Bedeutung der Verlässlichkeit der Mitarbeiter für Innovationen
3.25.6)	komp6	importance of persistence of employees for innovations	Bedeutung der Beharrlichkeit der Mitarbeiter für Innovationen
3.25.7)	komp7	importance of employees' ability to work in a team for innovations	Bedeutung der Teamfähigkeit der Mitarbeiter für Innovationen
3.25.8)	komp8	importance of self-reliance of employees for innovations	Bedeutung der Selbstständigkeit der Mitarbeiter für Innovationen
3.25.9)	komp9	importance of employees' risk-taking behaviour for innovations	Bedeutung der Risikobereitschaft der Mitarbeiter für Innovationen
3.25.10)	komp10	importance of creativity of employees for innovations	Bedeutung der Kreativität der Mitarbeiter für Innovationen
3.25.11)	komp11	most important ability/skills of employees for innovations	Wichtigste Fähigkeit and Kompetenz der Mitarbeiter für Innovationen
3.25.12)	komp12	second most important ability/skills of employees for innovations	S Zweitwichtigste Fähigkeit and Kompetenz der Mitarbeiter für Innovationen
3.25.13)	komp13	third most important ability/skills of employees for innovations	Drittwichtigste Fähigkeit and Kompetenz der Mitarbeiter für Innovationen

3.26 Innovations in cooperation with external partners

No.	Name	Label	German description
3.26.1)	koex1	coop. with external partners were started/enhanced/ continued	Kooperationen mit externen angefangen/entwickelt/fortgeführt
3.26.2)	koex2	importance of coop. with customers from same administrative district	Bedeutung von Kooperationen mit Kunden im gleichen Landkreis
.26.3)	koex3	importance of coop. with German customers outside the own district	Bedeutung von Kooperation mit Kunden im restlichen Deutschland
.26.4)	koex4	importance of coop. with foreign customers	Bedeutung von Kooperationen mit Kunden außerhalb Deutschlands
26.5)	koex2_3_4	general importance of coop. with customers	Generelle Bedeutung von Kooperationen mit Kunden
.26.6)	koex5	importance of coop. with suppliers from same administrative district	Bedeutung von Kooperationen mit Lieferanten im gleichen Landkreis
26.7)	koex6	importance of coop. with German suppliers outside the own district	Bedeutung von Kooperation mit Lieferanten im restlichen Deutschland
26.8)	koex7	importance of coop. with foreign suppliers	Bedeutung von Kooperationen mit Lieferanten außerhalb Deutschlands
26.9)	koex5_6_7	general importance of coop. with suppliers	Generelle Bedeutung von Kooperationen mit Lieferanten
26.10)	koex8	importance of coop. with competitors from same administrative district	Bedeutung von Kooperationen mit Wettbewerbern im gleichen Landkreis
26.11)	koex9	importance of coop. with German competitors outside the own district	Bedeutung von Kooperation mit Wettbewerbern im restlichen Deutschland
26.12)	koex10	importance of coop. with foreign competitors	Bedeutung von Kooperationen mit Wettbewerbern außerhalb Deutschlands
26.13)	koex8_9_10	general importance of coop. with competitors	Generelle Bedeutung von Kooperationen mit Wettbewerbern
26.14)	koex11	importance of coop. with other companies from same administrative district	Bedeutung von Kooperationen mit sonstigen Unternehmen im gleichen Landkreis
26.15)	koex12	importance of coop. with other German companies outside the own district	Bedeutung von Kooperation mit sonstigen Unternehmen im restlichen Deutschland
26.16)	koex13	importance of coop. with foreign companies	Bedeutung von Kooperationen mit sonstigen Unternehmen außerhalb Deutschlands
26.17)	koex11_12_13	general importance of coop. with other companies	Generelle Bedeutung von Kooperationen mit sonstigen Unternehmen
26.18)	koex14	importance of coop. with research institutions from same administrative district	Bedeutung von Kooperationen mit Forschungseinrichtungen im gleichen Landkreis
26.19)	koex15	importance of coop. with German research institutions outside the own district	Bedeutung von Kooperation mit Forschungseinrichtungen im restlichen Deutschland
26.20)	koex16	importance of coop. with foreign research institutions	Bedeutung von Kooperationen mit Forschungseinrichtungen außerhalb Deutschlands
26.21)	koex14_15_16	general importance of coop. with research institutions	Generelle Bedeutung von Kooperationen mit Forschungseinrichtungen
26.22)	koex17	importance of partner companies from food-/tobacco industry	Bedeutung von Partnerunternehmen aus Ernährungs-/Tabakgewerbe
26.23)	koex18	importance of partner companies from clothing-/leather fabrication	Bedeutung von Partnerunternehmen aus Textil-, Bekleidungs- oder Ledergewerbe
26.24)	koex19	importance of partner companies from wood-/furniture industry	Bedeutung von Partnerunternehmen aus Holz- oder Möbelgewerbe
26.25)	koex20	importance of partner companies from paper-/printing industry	Bedeutung von Partnerunternehmen aus Papier- oder Druckgewerbe
26.26)	koex21	importance of partner companies from chemical-/plastics industry	Bedeutung von Partnerunternehmen aus Chemie-, Kunststoff- oder Kokereigewerbe
26.27)	koex22	importance of partner companies from metal industry	Bedeutung von Partnerunternehmen aus Metallgewerbe
26.28)	koex23	importance of partner companies from glass-/ceramics industry	Bedeutung von Partnerunternehmen aus Glas-/Keramikgewerbe
26.29)	koex24	importance of partner companies from mechanical engineering	Bedeutung von Partnerunternehmen aus Maschinenbau
26.30)	koex25	importance of partner companies from production of office equipment	Bedeutung von Partnerunternehmen aus Herst. v. Büromaschinen and DV-Geräten
26.31)	koex26	importance of partner companies from energy industry	Bedeutung von Partnerunternehmen aus Energiegewerbe
26.32)	koex27	importance of partner companies from electrical engineering	Bedeutung von Partnerunternehmen aus Elektrotechnik
26.33)	koex28	importance of partner companies from broadcast engineering	Bedeutung von Partnerunternehmen aus Rundfunk-, TV- u. Nachrichtentechnik
.26.34)	koex29	importance of partner companies from medical engineering	Bedeutung von Partnerunternehmen aus Medizin- and Messtechnik

3.26.35)	koex30	importance of partner companies from automotive manufacturing	Bedeutung von Partnerunternehmen aus Fahrzeugbau
3.26.36)	koex31	importance of partner companies from service industry	Bedeutung von Partnerunternehmen aus Dienstleistungsgewerbe
3.26.37)	koex32	importance of partner companies from other sectors	Bedeutung von Partnerunternehmen aus sonstigen Sektoren (Bau, Handel, etc.)

3.27 Innovation vouchers

No.	Name	Label	German description
3.27.1)	ig1	company is aware of innovation voucher programme	Innovationsgutschein-Programm ist dem Unternehmen bekannt
3.27.2)	ig2	company has applied for voucher	Erzeugnisbereich hat Innovationsgutschein beantragt
3.27.3)	ig3	voucher was granted to company	Erzeugnisbereich wurde Innovationsgutschein bewilligt
3.27.4)	ig4	total value of redeemed innovation vouchers (euro)	Gesamtwert der eingelösten Innovationsgutscheine in Euro
3.27.5)	ig5	total costs of innovation cooperations subsidised through voucher (euro)	Gesamtkosten der mit Gutschein subventionierten Innovationskooperationen in Euro
3.27.6)	ig6	impact of voucher on frequency of innovation cooperations	Wirkung eines Innovationsgutscheins auf Häufigkeit von Innovationskooperationen
3.27.7)	ig7	impact of voucher on number of innovation projects	Wirkung eines Innovationsgutscheins auf Anzahl der Innovationsprojekte
3.27.8)	ig8	impact of voucher on R&D expenditure	Wirkung eines Innovationsgutscheins auf R&D Ausgaben

3.28 Information and communication technology

No.	Name	Label	German description
3.28.1)	comp	share of employees whose tasks require the use of a computer	Anteil der Arbeiter, die zur Ausübung ihrer Tätigkeit einen Computer benötigen
3.28.2)	inet	share of employees whose tasks require the use of the internet	Anteil der Arbeiter, die zur Ausübung ihrer Tätigkeit das Internet benötigen
3.28.3)	nocloud	not using any cloud-services	Unternehmen nutzt keine Cloud-Dienste
3.28.4)	cloudint	using internally implemented cloud-system	Unternehmen nutzt intern realisierte Cloud
3.28.5)	cloudext	using external cloud-service	Unternehmen nutzt Cloud-Dienste von einem externen Anbieter
3.28.6)	invict	yes, we invested in new ict-equipment during last two years	Unternehmen hat in letzten zwei yearen in neue IKT-Ausstattung investiert
3.28.7)	invexpict	expenditure on investments in ict-equipment (euro)	Ausgaben für Investitionen in IKT-Ausstattung in Euro
3.28.8)	noinvict	no, we did not invest in new ict-equipment during last two years	Unternehmen hat in letzten zwei yearen nicht in neue IKT-Ausstattung investiert
3.28.9)	mainit	main investment in ict: it equipment (computer and hardware)	Vorrangige Investition in IKT-Ausstattung: IT-Ausstattung (Computer and Hardware)
3.28.10)	mainct	main investment in ict: communication equipment	Vorrangige Investition in IKT-Ausstattung: Kommunikationsausstattung
3.28.11)	mainsoft	main investment in ict: software	Vorrangige Investition in IKT-Ausstattung: Software
3.28.12)	loreorg	low degree of restructuring due to investments in ict	IKT-Investitionen erforderten Umstrukturierung in geringem Umfang
3.28.13)	hireorg	high degree of restructuring due to investments in ict	IKT-Investitionen erforderten umfassende Umstrukturierung
3.28.14)	noreorg	no restructuring due to investments in ict	IKT-Investitionen erforderten keine Umstrukturierung
3.28.15)	inditdep	investment in ict induced by internal it-department	Anstöße für IKT-Investitionen stammen von interner IT-Abteilung
3.28.16)	indcustom	investment in ict induced by customers	Anstöße für IKT-Investitionen stammen von Kunden
3.28.17)	inditmgmt	investment in ict induced by internal it-management	Anstöße für IKT-Investitionen stammen von internem IT-Management
3.28.18)	indsuppl	investment in ict induced by suppliers	Anstöße für IKT-Investitionen stammen von Zulieferern
3.28.19)	indextcons	investment in ict induced by external it-consultancy	Anstöße für IKT-Investitionen stammen von externer IT-Beratung
3.28.20)	indextbp	investment in ict induced by external business partners	Anstöße für IKT-Investitionen stammen von externen Geschäftspartnern
3.28.21)	cstrknow	investment in ict constrained by lack of it-knowledge (employees)	IKT-Investitionsvorhaben behindert durch fehlende IT-Kenntnisse der Mitarbeiter
3.28.22)	cstrcons	investment in ict constrained by high costs of external consultancy	IKT-Investitionsvorhaben behindert durch hohe Kosten für externe IT-Beratung
3.28.23)	cstritpers	investment in ict constrained by lack of it-experts on regional labour market	IKT-Investitionsvorhaben behindert durch Mangel an IT-Fachpersonal auf dem regionalen Arbeitsmarkt
3.28.24)	cstrbroadb	investment in ict constrained by insufficient regional supply of broad band	IKT-Investitionsvorhaben behindert durch unzureichende regionale Breitbandversorgung
3.28.25)	cstritappl	investment in ict constrained by lack of suitable it-applications	IKT-Investitionsvorhaben behindert durch fehlende geeignete IT-Anwendungen

1. Identification variables

1.1 Information for company identification

No.	Name			Label											Survey	period Survey frequency				
1.1)	plantn	um		KT and IN	NNO infor	mation co	ontaining	id							West 1	.982 to 1990 annua				
															East ar	nd West since 1991 annua				
Time s	pan of v	/ariable																		
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Further information				
WEST									EAST ar	nd WEST						Identification number, 11 digits				
																The plantnum is created from following variables				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		and can be combined with the one from the KT VG				
EAST a	nd WEST															digit 1-4: prodnum digit 5-6: fedstaifo				
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	digit 7-11: runnum				
EAST WEST	2013	2010	2017	2016	2019	2020	2021	2022	2023	2024	2023	2020	2027	2028	2029					

No.	Name		Label													period Survey frequency
1.2)	idnum			KT and IN	NNO firm	adressfile	id, 7 digi	ts							East ar	nd West since 1999 annual
Time s	span of v	ariable/														
1002	4002	1004	1005	1000	1007	1000	1000	1000	1001	1002	1002	1004	1005	1000	1007	C. with an information
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Further information
																7 digits
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
																digit 1-2: economic branch
	EAST an	d WEST														digit 3-7: company identifier
																noutially available already before 1000 (son be recombined)
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	partially available already before 1999 (can be recombined)
2014	2013	2010	2017	2010	2013	2020	2021	2022	2023	2024	2023	2020	2027	2020	2023	
EAST																
WEST																

No.	Name			Label											Survey	period Survey frequency
			I													
1.3)	gk			sizerange	e (from K1	Γ)										1982 to 1990 annual
															East ar	nd West since 1991 annual
Time s	span of v	ariable														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Further information
2552	2000	200.	2500	2000	2507	2500	2000							2000		
WEST									EAST and	d WFST*						Size range (employees)
									LAST uni	u 10 231						refers to the whole company (from KT)
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[1] = up to 49 [2] = 50 - 199
1996	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2015	[3] = 200 - 499
FAST	nd MICT															[4] = 500 - 999
EAST a	nd WEST															[5] = 1000 and more
0011	2017	2010	2215	2212	2010	2020	2024	2022	2020	2021		2025		2020	2020	* : since 1991 calculated by the variable emppro from KT
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST																
WEST																

No.	Name			Label											Survey	period	Survey frequency	
1.4)	land			fodoral c	tate (ifo c	odo)									Mast 1	1982 to 1990		annua
1.4)	land			reuerar si	tate (IIO C	oue)										nd West since 1991		annu
Time	span of w	variable														Further information		
																Further information Federal state according to ifo-	code	
1982	span of v	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Federal state according to ifo-		
				1986	1987	1988	1989		1991 EAST an		1993	1994	1995	1996	1997		code 10 "[10] Bavaria" 11 "[11] Saarland" 12 "[12] Mecklenburg-	

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		5 "[05] Lower Saxony"	13 "[13] Brandenburg
																6 "[06] Northrhine-Westphalia" 7 "[07] Rheinland-Palatinate"	(incl. Berlin East)" 14 "[14] Sacxony-Anhalt"
EAST an	d WEST															8 "[08] Hesse"	15 "[15] Saxony"
																9 "[09] Baden-Wuerttemberg"	16 "[16] Thuringia"
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST																	
WEST																	

No.	Name			Label											Survey	period	Survey frequ	iency
1.5)	year			year											West 1	.982 to 1990		annua
															East ar	nd West since 1991		annua
Time s	pan of v	ariable																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Further information		
WEST																		
WES:									EAST an	d WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
EAST ar	nd WEST																	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
EAST																		
WEST																		

No.	Name			Label											Survey	period	Survey frequency
1.6)	nace			industry	sector, N	ACE code	(wz93)								East ar	nd West since 1996	annua
																Further information	
																Industry sector according to Na	ce code (WZ93)
Time s	pan of v	ariable														[15] = food industry	[26] = glass,ceramic,stone
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[16] = tobacco industry	[27] = metal prod.,processing
																[17] = textile industry	[28] = prod. of metal products
														EAST ar	nd WEST	[18] = clothing industry	[29] = engineering
																[19] = leather fabrication	[30] = office equipment, dp
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[20] = timber or furniture ind. [21] = paper industry	[31] = electronic prod. and dis [32] = broadcasting, television.
1996	1999	2000	2001	2002	2003	2004	2003	2000	2007	2006	2009	2010	2011	2012	2013	[22] = printing industry	[33] = medical/measurement
																[23] = cokery, mineral	[34] = prod. Of cars/carparts
EAST ar	nd WEST															[24] = chem. industry	[35] = other vehicle construction
																[25] = rubber, plastics	[36] = prod of furniture, jeweli
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST																	
WEST																	

1.7)	waehr			currency	DM - EUI	R									West 1	1982 to 1990	annual
															East ar	nd West since 1991	annual
																Further information	
Time s	pan of v	/ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	currency DM - EUR	
WEST									EAST an	d WEST							
									LAST di	u WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST a	nd WEST																
2014	2015	2016	2017	2010	2010	2020	2024	2022	2022	2024	2025	2026	2027	2020	2020		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST WEST																	

Survey frequency

Survey frequency

Survey period

Survey period

Label

Label

No.

Name

Name

No.

1.8) westost western / eastern Seite 16 West 1982 to 1990 annual

																Further information
Time sp	oan of v	ariable														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	differenciates between eastern and western survey
WEST																
WEST									EAST an	d WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
2014	2013	2010	2017	2010	2019	2020	2021	2022	2023	2024	2023	2020	2027	2020	2023	
EAST																
WEST																

2. General information

No.	Name			Label											Survey	period S	urvey frequend	СУ
2.1)	umsatz	!	ı	total rev	enue in a	bove-me	ntioned p	roduct lii	ne							1982 to 1990		annual
Vord i	ing of qu	estion													East ar	nd West since 1991		annual
1982 to	2012 r weighting	g purpose	es / VII. go	eneral in	formation	า										Further information		
	W* the rev						uct line w	as about				(T Eu	ro / T DM	1)**				
Time	span of v	variable														*"19WW" denotes the year under	review	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
WEST									EAST ar	nd WEST						**Currency see variable 1.8) waehr		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
	nd WEST	2000	2001	2002	2003	2001	2003	2000	2007	2000	2003	2010	2011	2012	2013			
		2016	2017	2010	2010	2020	2024	2022	2022	2024	2025	2026	2027	2020	2020			
2014 EAST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
WEST																		
No.	Name	_	_	Label	_	_	_	_	_	_	_	_	_	_	Survoy	period S	urvey frequenc	
IVO.	Name			Label				_							Julvey	periou	urvey frequent	-y
2.2)	beszn			percenta	age increa	ase in nun	nber of er	nployees	last 5 yea	ırs					East ar	nd West 1996		once
Word	ing of qu	estion																
1996 VII. Ge r	neral inform	nation														Further information		
Please o	quantify th	e develor	oment du	ring the la	ast 5 year	rs			increase	in %								
						employe	ees											
Time :	span of v	ariable																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
														EAST +				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
															•		•	
No.	Name			Label											Survey	period S	urvey frequend	Cy
2.3)	umszn			percenta	age increa	ase in tota	al revenue	last 5 ye	ears						East ar	nd West 1996		once
Word	ing of qu	estion																
1996 VII Ger	neral inform	mation														Further information		
	quantify th		oment du	ring the la	ast 5 year	·s			increase	in %								
	. ,				·		revenue											
1982	span of v		1985	1096	1007	1000	1000	1000	1991	1002	1002	1004	1005	1006	1007			
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996 EAST +	1997			
														WEST				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			

East and West 1996

once

beskv

unchanged number of employees last 5 years

2.4)

							revenue								
Time sp	oan of v	ariable													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
														EAST + WEST	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013

No.	Name			Label											Survey	/ period	Survey frequency
2.8)	exp1			share of	exports w	ı.r.t. prod	uct line								East ar	nd West since 1991	irregular
Word	ng of qu	estion															
1991 to VII. Ge i	2012 eral infori	mation fo	or the pro	duct line												Further information	
								0/									
ine sna	re of expo	rts to the	revenue	was:				<u></u> %									
T:																	
Time	span of v	/ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
									EAST				EAST		EAST		
									WEST				WEST		WEST		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST a	nd WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST																	
WEST																	

9)	exp2			share of e	exports w	r.t. whol	e compan	ıy							East an	d V	est 1	1995 t	o 2010)	irr	egula
Vordir	ng of qu	estion																				
995 to 2																Fur	her ir	ıforma	tion			
	Only for	weighting	g purpose	s:																		
ne shar	e of expo	rts to the																				
		- of the	entire cor	npany				%														
ime s	oan of v	ariable																				
		ariable		1000	4007	1000	1000	4000	1001	1002	1000	4004	4005	1006	1007							
ime s	oan of v 1983	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997							
				1986	1987	1988	1989	1990	1991	1992	1993	1994	EAST		EAST							
				1986	1987	1988	1989	1990	1991	1992	1993	1994										
1982				1986	1987	1988	1989	1990	1991	1992	1993	1994	EAST		EAST							
1982 1998	1983 1999	1984	1985										EAST WEST		EAST WEST							
1982 1998	1983	1984	1985										EAST WEST		EAST WEST							
1982 1998	1983 1999	1984	1985										EAST WEST		EAST WEST							
1982 1998 AST ar	1983 1999 ad WEST	1984	1985	2002	2003	2004	2005	2006	2007	2008	2009	2010	EAST WEST 2011	2012	EAST WEST 2013							

Survey period

Survey period

Survey frequency

Survey frequency

No.

No.

Name

Name

Label

Label

2.10)	noexp	no exports	East and West since 1995	irregular
Wordi	ing of question			

1995 to 2004 Seite 20 Further information

	Only for	weighting	g purpose	es:											
	We don't	export			[1]										
2005 to	2012														
	Only for	weighting	g purpose	es:											
	Our prod	uct line d	oes not e	xport			[1]								
Time s	pan of v	ariable													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
													EAST WEST		EAST WEST
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
EAST ar	nd WEST														
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EAST WEST															

No.	Name			Label											Survey	period	Survey freque	ency
2.11) Wordin	beschft			number	of employ	vees w.r.t.	. product	line							East an	nd West since 1996		annua
1996 to 2 VII. Gene In 19WW	eral inforr		mployees	s in above	mention	ed produc	ct line was	5			(per	rsons)				Further information *"19WW" denotes the year un	nder review	
Time sp				1006	1007	1000	4000	1000	1001	1002	1002	1004	1005	1000				
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996 EAST an	1997 ad WEST			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
EAST an 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
EAST WEST																		

Label

No.

Name

2.12)	bs_fue			number	of employ	ees in R	§D								East ar	nd West 2005 to 2012	irregular
Word	ing of qu	uestion															
2005 to																Further information	
VII. Ge	neral infor	mation							In R&D								
In 20W	W* the nu	mber of e	mployees	s in above	mention	ed produ	ct line was	5			(persons)					
Time	span of	variable															
																*"20WW" denotes the year under review	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
4000	4000	2000	2004	2002	2002	2004	2005	2006	2007	2000	2000	2040	2044	2042	2042		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
							EAST +										
							WEST										
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
										_							
										Se	ite 21					•	•

Survey period

Survey frequency

Label Survey frequency Survey period No. Name bs_dokt East and West 2005 to 2012 irregular share of employees with doctor's degree (product line) 2.13) Wording of question 2005 to 2012 Further information VII. General information In above mentioned product line The following share of employees achieved as highest qualification degree... - doctor's degree % Time span of variable EAST + WEST Survey frequency Label Survey period No. Name bs_dokt_fue East and West 2005 to 2012 irregular 2.14)share of employees in R&D with doctor's degree Wording of question 2005 to 2012 Further information VII. General information In R&D The following share of employees achieved as highest qualification degree... - doctor's degree Time span of variable EAST + WEST Survey period Label Survey frequency Name No. East and West 2005 to 2012 bs_fhtechn share of employees with university degree, technical irregular 2.15) Wording of question 2005 to 2012 Further information VII. General information In above mentioned product line The following share of employees achieved as highest qualification degree... - university degree - scientific-technical course of studies %

Time span of variable

EAST + WEST

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Survey frequency Name Label Survey period No. bs_fhtechn_fue East and West 2005 to 2012 irregular 2.16) share of employees in R&D with university degree, technical Wording of question 2005 to 2012 Further information VII. General information In R&D The following share of employees achieved as highest qualification degree... - university degree - sciewntific technical course of studies % Time span of variable EAST + WEST

No.

Name

Label

Survey frequency Label Survey period No. Name bs_fhgeist East and West 2005 to 2012 irregular 2.17) share of employees with university degree, social science Wording of question Further information 2005 to 2012 VII. General information In above mentioned product line The following share of employees achieved as highest qualification degree... - university degree - course of studies: social sciences or liberal arts Time span of variable EAST + WEST

2.18) bs_fhgeist_fue share of employees in R&D	D with university degree, social science	East and West 2005 to 2012	irregular
Wording of question			
2005 to 2012 VII. General information	In R&D	Further information	
The following share of employees achieved as highest qualificat			
 university degree course of studies: social sciences or liberal arts 	%		
Time span of variable	Seite 23		

Survey period

Survey frequency

1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
							EAST + WEST								
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

No.	Name			Label											Survey	period	Survey frequency
2.19)	bs_aus	geb		share of	employee	es with pr	ofessiona	l educatio	on						East ar	nd West 2005 to 2012	irregular
Word	ng of qu	estion															
	9 9																
2005 to																Further information	
VII. Ger	eral inform	mation								In ah	ove ment	ionad					
											product						
	owing shar		loyees ac	hieved as	highest o	ualificati	on degree										
- profe	ssional ed	ucation											%				
Time s	span of v	/ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1302	1905	1304	1903	1900	1907	1300	1303	1990	1991	1992	1993	1334	1993	1990	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
							EAST +										
							WEST										
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

20)	bs_aus	geb_tue	9	share of	employee	s in R&D	with profe	essional e	education	l					East an	a we	st 200!	to 201	.2	irregula
ordir/	ng of qu	estion																		
05 to 2																Furthe	r inforr	nation		
I. Gene	eral inforn	nation									In R&D									
o follo	wing char	o of omp	lovoos asl	niovad as	highost a	ualificatio	on dograd													
	sional edu		ioyees aci	ileveu as	nignest q	uaiiiicatii	on degree			,			%							
me s	oon of w																			
	Jan or v	ariable																		
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997					
				1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997					
982				1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997					
982	1983	1984	1985			2004	2005													
982	1983	1984	1985			2004														
982	1983 1999	2000	1985	2002	2003	2004	2005 EAST + WEST	2006	2007	2008	2009	2010	2011	2012	2013					
1982 1998	1983	1984	1985			2004	2005 EAST +													
1982 1998 2014	1983 1999	2000	1985	2002	2003	2004	2005 EAST + WEST	2006	2007	2008	2009	2010	2011	2012	2013					

Survey period

Survey frequency

Label

No.

Name

No.	Name	Label		Survey period	Survey frequency
2.21)	bs_azubi	share of apprentices w.r.t. product line		East and West 2005 to 2012	irregular
VA7 1					
Word	ing of question				
2005 to	2012			Further information	
VII. Ge	neral information				
			In above mentioned		
			product line		
The fol	lowing share of employee	es achieved as highest qualification degree			
	entices	•	%		
			Se ite 24		•

Time s	pan of v	ariable													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
							EAST + WEST								
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

No.	Name			Label											Survey	period	Survey frequency
2.22)	bs_azu			share of	apprentic	es in R&[)								East ar	nd West 2005 to 2012	irregula
Wordi	ng of qu	estion															
	eral infori		loyees ac	hieved as	highest q	ualificatio	on degree				In R&D		<u></u> %			Further information	
Time s	pan of v	ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005 EAST + WEST	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

.23)	bs_unq	ual		share of	unskilled	workers v	v.r.t. prod	uct line							East an	d West 2005 to	2012	irregular
Vordir	g of qu	estion																
005 to 2	.012															Further informati	ion	
II. Gene	ral inforr	nation								In ah	ove menti	ionad						
											product l							
	wing shar ed worke		loyees acl	nieved as	highest q	ualificatio	on degree						%					
- unskiii	ed worke	15											. 70					
imas	on of w	ariabla																
ime sp	oan or v	ariable																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
							EAST +											
							WEST											
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			

Label

Label

No.

No.

Name

Name

Survey period

Survey period

Survey frequency

Survey frequency

2.24)	bs_unqual_fue	share of unskilled workers in R&D	East and West 2005 to 2012	irregular
Word	ing of question			

2005 to 2012

VII. General information

Seite 25

Further information

											In R&D				
	owing shar lled worke		loyees ac	hieved as	highest q	ualificatio	on degree	2					%		
Time s	span of v	ariable													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
							EAST +								
							WEST								
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
No.	Name			Label											Survey

No.	Name			Label											Survey	period	Survey frequency	
2.25)	antwpe	ers1		main res	pondent (of questic	nnaire: le	eading po	sition in F	R&D					East an	nd West 2008 and 2009		once
Wordii	ng of qu	estion																
2008 and	d 2009															Further information		
	eral inforn				.1 6 11													
The mai	in respond	lent of the	e questior	nnaire ha	s the follo	owing pos	ition in yo	our comp	any:									
	leading p	osition R	&D						[1]									
							'											
Time s	pan of v	ariable																
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
										EAST +								
										WEST								
2014	2045	2016	2017	2040	2010	2020	2024	2022	2022	2024	2025	2026	2027	2020	2020			
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			

2.26)	antwpe	ers2		main res	pondent o	of questic	nnaire: le	eading po	sition in o	controlling	g				East an	nd West 2008 and 2009	once
Wordi	ng of qu	estion															
	d 2009 eral inform in respond leading p	lent of th			s the follo	owing pos	ition in y		any:							Further information	
Time s	pan of v] (±)								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	EAST + WEST	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Label

Name

No.

Survey frequency

Survey period

No.	Name	Label	Survey period	Survey frequency
2.27)	antwpers3	main respondent of questionnaire: leading posit. in human resource management	East and West 2008 and 2009	once
Word	ing of question			
	1000			
2008 an			Further information	
	neral information			
The ma	in respondent of the qu	estionnaire has the following position in your company:		
		Seite 26		

	leading p	oosition h	uman res	ource ma	nagemen	t			[1]									
Time s	pan of v	/ariable	!															
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
										EAST + WEST								
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
No.	Name			Label											Survey	period	Survey frequenc	У
2.28)	antwp	ers4		main res	spondent	of questic	onnaire: n	nanageme	ent						East an	nd West 2008 and 2009		once
Wordi	ng of qu	uestion																
2008 and																Further information		
	eral infor in respond		ie questio	nnaire ha	s the follo	owing pos	sition in y	our comp	any:									
	managei	ment							[1]									
	C																	
1998	pan of v	/ariable 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
1330	1333	2000	2001	2002	2003	2004	2003	2000		EAST +	2003	2010	2011	2012	2013			
										WEST								
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
Nο	Name			Lahel											Survey	neriod	Survey frequenc	V
No.	Name			Label											Survey	period	Survey frequenc	У
No. 2.29)	Name	ers5			spondent	of questic	onnaire: e	mployee	in R&D		_	_		_		period and West 2008 and 2009	Survey frequenc	
2.29)					spondent (of questic	onnaire: e	mployee	in R&D								Survey frequenc	
2.29) Wordi 2008 and	antwpong of quality of 2009 eral infor	uestion		main res											East an		Survey frequenc	
2.29) Wordi 2008 and	antwpong of quadragrams of quadragra	uestion mation dent of th		main res	spondent of			our comp	any:						East an	nd West 2008 and 2009	Survey frequenc	
2.29) Wordi 2008 and	antwpong of quality of 2009 eral infor	uestion mation dent of th		main res				our comp							East an	nd West 2008 and 2009	Survey frequence	
2.29) Wording 2008 and VII. Gen The main	antwpong of quadragrams of quadragra	mation dent of the	ie questio	main res				our comp	any:						East an	nd West 2008 and 2009	Survey frequence	
2.29) Wording 2008 and VII. Gen The main	antwpeng of questions of questi	mation dent of the	ie questio	main res				our comp	any:	2008	2009	2010	2011	2012	East an	nd West 2008 and 2009	Survey frequence	once
2.29) Wording 2008 and VII. Gen The main	antwpong of question of very employed	mation dent of the	e questio	main res	as the follo	owing pos	sition in y	our comp	any: [1] 2007	2008 EAST + WEST	2009	2010	2011	2012	East an	nd West 2008 and 2009	Survey frequence	
2.29) Wording 2008 and VII. Gen The main	antwpong of question of very employed	mation dent of the	e questio	main res	as the follo	owing pos	sition in y	our comp	any: [1] 2007	EAST +	2009	2010	2011	2012	East an	nd West 2008 and 2009	Survey frequence	
2.29) Wording 2008 and VII. Gen The main	antwpong of question of the contract of the co	mation dent of the R&D variable	e questio	main res	as the follo	owing pos	sition in y	our comp	any: [1] 2007	EAST + WEST					East an	nd West 2008 and 2009	Survey frequence	
2.29) Wording 2008 and VII. Gen The main	antwpong of question of the contract of the co	mation dent of the R&D variable	e questio	main res	as the follo	owing pos	sition in y	our comp	any: [1] 2007	EAST + WEST					East an	nd West 2008 and 2009	Survey frequence	
2.29) Wording 2008 and VII. Gen The main	antwpong of question of the contract of the co	mation dent of the R&D variable	e questio	main res	as the follo	owing pos	sition in y	our comp	any: [1] 2007	EAST + WEST					2013 2029	nd West 2008 and 2009	Survey frequence	once
2.29) Wording 2008 and VII. Gent The main 1998 2014 No.	antwpong of quad 2009 eral information respondent pan of value 2015	mation dent of the R&D variable 2000	e questio	nnaire ha	2003 2019	2004 2020	2005 2021	2006 2022	any: [1] 2007	EAST + WEST					2013 2029	Further information		y
2.29) Wording 2008 and VII. Gent The main The main The main The second The	antwpong of quad 2009 eral information respondents of the part of	mation dent of the R&D variable 2000 2016	2001 2017	nnaire ha	as the follo	2004 2020	2005 2021	2006 2022	any: [1] 2007	EAST + WEST					2013 2029	Further information		y
2.29) Wording 2008 and VII. Gen The main 1998 2014 No. 2.30) Wording	antwpong of quality of the pan of variable of quality o	mation dent of the R&D variable 2000 2016	2001 2017	nnaire ha	2003 2019	2004 2020	2005 2021	2006 2022	any: [1] 2007	EAST + WEST					2013 2029 Survey	Further information period did West 2008 and 2009		y
2.29) Wording 2008 and VII. Gen. The main viii. Gen. VII. Gen. VIII.	antwpong of quality of the semployed	mation dent of the R&D variable 2000 2016 ers6 uestion mation	2001 2017	2002 2018 Label main res	2003 2019	2004 2020	2005 2021	2006	any: [1] 2007 2023	EAST + WEST					2013 2029 Survey	Further information		y
2.29) Wording 2008 and VII. Gen. The main viii. Gen. VII. Gen. VIII.	antwpong of quality of the semployed antwood antwood of quality of	mation dent of the R&D variable 2000 2016 ers6 uestion mation dent of the	2001 2017	2002 2018 Label main res	2003 2019	2004 2020	2005 2021	2006 2022 employee	any: [1] 2007 2023	EAST + WEST					2013 2029 Survey	Further information period did West 2008 and 2009		y
2.29) Wording 2008 and VII. Gen. The main viii. Gen. VII. Gen. VIII.	antwpong of quantum of the pan of	mation dent of the R&D variable 2000 2016 ers6 uestion mation dent of the	2001 2017	2002 2018 Label main res	2003 2019	2004 2020	2005 2021	2006 2022 employee	any: [1] 2007 2023	EAST + WEST					2013 2029 Survey	Further information period did West 2008 and 2009		once

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
										EAST +					
										WEST					
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

_																			
	No.	Name			Label											Survey	period	Survey frequency	
	2.31)	antwp	ers7		main res	pondent	of questic	nnaire: e	mployee	in humar	resource	manager	ment			East ar	nd West 2008 and 2009		once
	Wordi	ng of qu	estion																
	2008 an																Further information		
		eral infor																	
	The mai	in respond	dent of th	ne questic	onnaire ha	as the follo	owing pos	sition in y	our comp	any:									
		emnlove	e human	resource	managen	nent				[1]									
		employe	e maman	resource	managen	ileile				[1]									
	Time s	pan of v	/ariable	:															
ſ	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
											EAST +								
											WEST								
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
-																			
	No	Nama	_	_	Labal	_	_	_	_	_	_	_	_	_	_	C	noriod	Curvey freezences	

antwpers8 East and West 2008 and 2009 once 2.32) main respondent of questionnaire: other position Wording of question 2008 and 2009 Further information VII. General information The main respondent of the questionnaire has the following position in your company: other Time span of variable 2001 2002 2012 1998 1999 2000 2003 2004 2005 2006 2007 2008 2009 2010 2011 2013 EAST + WEST 2017 2019 2014 2015 2016 2018 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029

emppro East and West since 1991 2.33) number of employees (from KT) annual Wording of question since 01/1991 Further information Number of employees State: end of [month] [year] since 2009 transferred retrospectively In the entire company (only domestic plants) we employ Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 Seite 28

No.

Name

Label

Survey period

Survey frequency

										FACT						
										EAST + WEST						
										WEST						
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Į																
_	AST + WEST															
ì	VLJI															
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	AST VEST															
,	VEST															

No.	Name			Label											Survey	period		Survey	frequenc	су
2.34) Wordi	emppr			number	of employ	ees in pr	oduction	(from KT)							East ar	nd West since	1982			annual
since 19	982															Further informa	ation			
Number	r of emplo	yees																		
In the e	ntire comp	oany (only	y domesti	ic plants) י				perso		of rovenu	۵۱									
					(pos	sibly estil	mations a	ccording	to snare (or revenu	e)									
Time s	span of v	/ariable	1																	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997					
EAST + WEST																				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013					
EAST + WEST																				
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029					
EAST WEST																				

2.35) Wordir	degrac			share of	employee	es with ac	ademic de	egree							East ar	nd West 2011	once
2011 Share of	employee	es with ac	ademic d	egree			circa)	%							Further information	
Time s ₁	pan of v 1999	rariable 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	EAST + WEST 2027	2028	2029		

Name

Name

No.

Label

Label

No.

Survey frequency

Survey frequency

Survey period

Survey period

2.36) aku1 characterisation of company: independent	West 1991 East 1991	once once
Wording of question 1991	Further information	
XII. Information for characterisation of the company Our company is	Special question inquired one time or	nly
- an independent company[1] Seite 29		

	in fact	a compai													
	- a sub	sidiary													
	- an af	filiated co	mpany												
Time s	pan of v	ariable													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
									WEST EAST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013

No.	Name			Label											Survey	period	Survey frequency	У
	aku2 ng of qu	estion		characte	risation o	f compan	y: part of	a group							West 1 East 19			once once
1991 XII. Info	rmation fo	or charact	terisation	of the co	mpany											Further information		
	- an inde - part of in fact	a compa	company ny group[npany			 										Special question inquired or	ne time only	
Time s	- an af pan of v	filiated co																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 WEST EAST	1992	1993	1994	1995	1996	1997			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			

2.38)	aku3			characte	risation o	f compan	y: parent	compan	у						West 1		once
Wordin	ng of qu	estion													East 19	991	onc
1991 (II. Infor i	mation fo	or charac	terisation	of the co	mpany											Further information	
ur com																	
	- an inde	ependent	company	,												Special question inquired one time only	
	in fact		ny group mpany[1]														
	- a sub	sidiary															
	- an af	filiated co	ompany														
ime sp	oan of v	/ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
									WEST EAST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008Se	eite 230 9	2010	2011	2012	2013		

Label

No.

Name

Survey period

Survey frequency

No. Name	Label	Survey period	Survey frequency
2.39) aku4	characterisation of company: subsidiary	West 1991	once
		East 1991	once

Wording of question

No.

Name

Label

I. Infor	mation fo	r charact	erisation	of the co	mpany											Further information
ur com _l	pany is															
	- an inde	pendent	company			[Special question inquired one time only
	- part of in fact - the pa	a compar arent com														
	- a subs	sidiary[1]														
	- an aff	iliated co	mpany			ļ										
me sp	oan of v	ariable														
	oan of v 1983	ariable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
				1986	1987	1988	1989		1991 WEST EAST	1992	1993	1994	1995	1996	1997	
1982				1986	1987	1988	1989		WEST	1992	1993	1994	1995	1996	1997	
ime sp 1982 1998	1983	1984	1985						WEST EAST							

Survey period

Survey frequency

2.40)	aku5			characte	risation o	f compan	y: affiliate	ed							West 1		on
															East 19	991	on
Vordir	ng of qu	estion															
991																Further information	
	mation fo	r charact	terisation	of the co	mpany											Tuttier information	
ur com	pany is																
		pendent	company	,												Special question inquired one time only	
	- part of in fact	a compa	ny group														
		arent con	npany														
	- a sub	sidiary															
	- an aff	filiated co	mpany[1]	1				1									
			, ,,,	•													
ime sp	pan of v	ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
									WEST EAST								
							2005	2006									
1998	1999	2000	2001	2002	2003	2004			2007	2008	2009	2010	2011	2012	2013		

3. Innovations 3.1 Innovation activities in the year under review 3.1.1 No innovation acvtivities No. Name Label Survey period Survey frequency 3.1.1.1) no_inno1 West 1982 to 1990 no innovation, because not necessary annual East and West since 1991 annual Wording of question 1982 to 2012 Further information I. Innovation activities in year 19WW/20WW* * "19WW/20WW" denotes the year under review In 19WW/20WW* we did not carry out any innovation activities, because they have not been necessary in that year Time span of variable WEST **EAST and WEST EAST and WEST EAST** WEST Label Name Survey period Survey frequency No. West 1982 to 1990 3.1.1.2) no_inno2 annual no innovation, due to obstacles East and West since 1991 annual Wording of question Further information 1982 to 2012 I. Innovation activities in year 19WW/20WW* * "19WW/20WW" denotes the year under review In 19WW/20WW* we did not carry out any innovation activities, because of obstacles Time span of variable **WEST EAST and WEST EAST and WEST EAST** WEST **3.1.2** product innovations Label Survey period Survey frequency No. Name 3.1.2.1) **pdin1** East and West since 1992 annual product innovations introduced Wording of question 1992 to 2012 Further information I. Innovation activities in year 19WW/20WW*

* "19WW/20WW" denotes the year under review

[1]

introduced by us

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product innovations

Time span of variable

In 19WW/20WW* innovations were

										LAST di	IU VVLST				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
EAST an	nd WEST														
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EAST WEST															

Label

No.

Name

No.	Name			Label											Survey	y period Survey fred	luency
3.1.2.2) Wordin				products	innovatio	ons introd	luced (ret	aining pr	oduction	technoloε	gy)					1982 to 1990 nd West 1991	annua once
product i In 19WW	tion activ innovatio /* we into	o ns oduced in	ear 19WV		taining th	e produc	tion techr	nology][1]		*"19WW" denotes the year under review **Question was actually only posed in 1991. The values for the years 1982-90 are subseque	ntly
Time sp	oan of v 1983	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	generated by the variable 3.1.2.3) pdin1a2	
1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST 2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

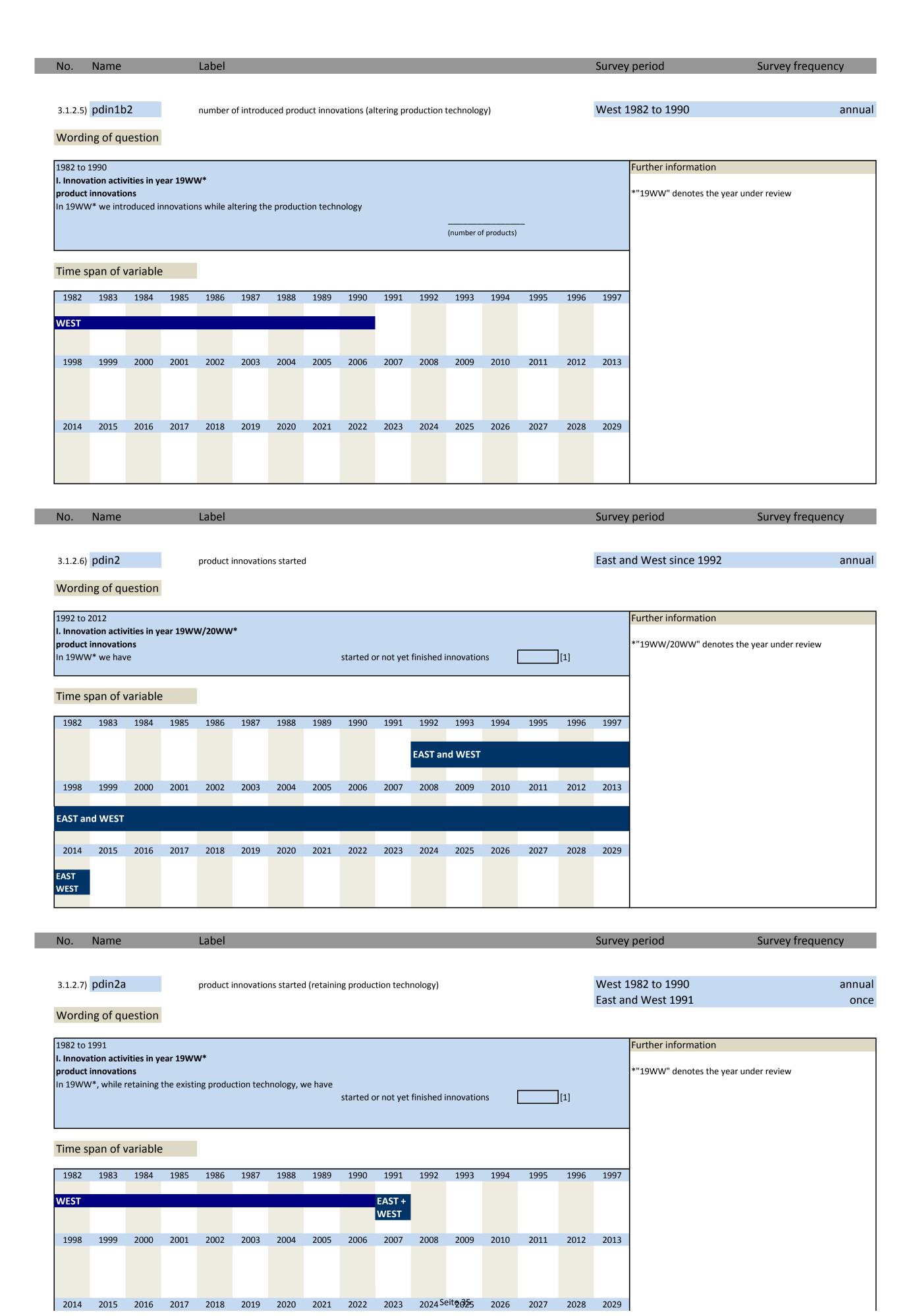
3.1.2.3)	pdin1a	2		number	of introdu	iced prod	uct innov	ations (re	etaining p	roductior	n technolo	ogy)			West 1	1982 to 1990	annual
Wordin	ng of qu	estion															
1982 to 1 I. Innova product i In 19WW	tion activ	ns			etaining t	he existin	g produc	tion techr	nology							Further information *"19WW" denotes the year under review	
Time sp	oan of v	variable									(number o	f products)	_				
1982 WEST	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Survey period

Survey frequency

lo. Name	Label	Survey period	Survey frequency
3.1.2.4) pdin1b1	product innovations introduced (altering production technology)	West 1982 to 19	
Vording of question		East and West 1	991 once
982 to 1991**		Further in	formation
Innovation activities in yorduct innovations on 19WW* we introduced in	ear 19WW* nnovations while altering the production technology	*"19WW" o	denotes the year under review
		**Question	was actually only posed in 1991.
			for the years 1982-90 are subsequently
ime span of variable	e e e e e e e e e e e e e e e e e e e	generated I	by the variable 3.1.2.5) pdin1b2

1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
WEST									EAST +						
									WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029



No.	Name			Label											Survey	/ period	Survey freque	ency
	pdin2b			product	innovatio	ns (alterii	ng produc	ction tech	nnology)							1982 to 1990 nd West 1991		annua once
		Jestion														From the artists of a marking		
product	1991 ation activ innovation V*, while	ons			nnology, v	ve have		started	or not yet	finished	innovatio	ns][1]		Further information *"19WW" denotes the year u	nder review	
Time s	span of v	variable	9															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
WEST									EAST +									
1000	1000	2000	2001	2002	2002	2004	2005	2006	WEST 2007	2000	2000	2010	2011	2012	2012			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
Vo.	Name			Label											Survey	/ period	Survey freque	ency
3.1.2.9)	pdin3			product	innovatio	ns cancel	led								East a	nd West since 1992		annua
	ng of qu	uestion																
1992 to	2012															Further information		
product	ation activ	ons	ear 19W	W/20WW	V*										٦	*"19WW/20WW" denotes th	e year under review	
n 19WV	V* we hav	/e									cancelle	d innovat	ions		<u>[1]</u>			
Γime s	pan of v	variable	9															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
										EAST a	nd WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
EAST a	nd WEST																	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
AST																		
VEST																		
No.	Name			Label											Survey	/ period	Survey freque	ency
3.1.2.10) pdin3a			product	innovatio	ns cancel	led (retai	ning prod	duction te	chnology	·)					1982 to 1990 nd West 1991		annua once
Wordi	ng of qu	uestion																
1982 to	1991 ation activ	vities in y	ear 19W	W*												Further information		
product	innovation V*, while	ons			ıction tech	nnology, v	we have								_	*"19WW" denotes the year u	nder review	
											cancelle	d innovat	ions		[1]			
Time	man of	variable														-		
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
1907	1903	1984	1382	1980	198/	1398	1989	1990	1991	1992	1993	1994	1995	1990	1997			

EAST + WEST

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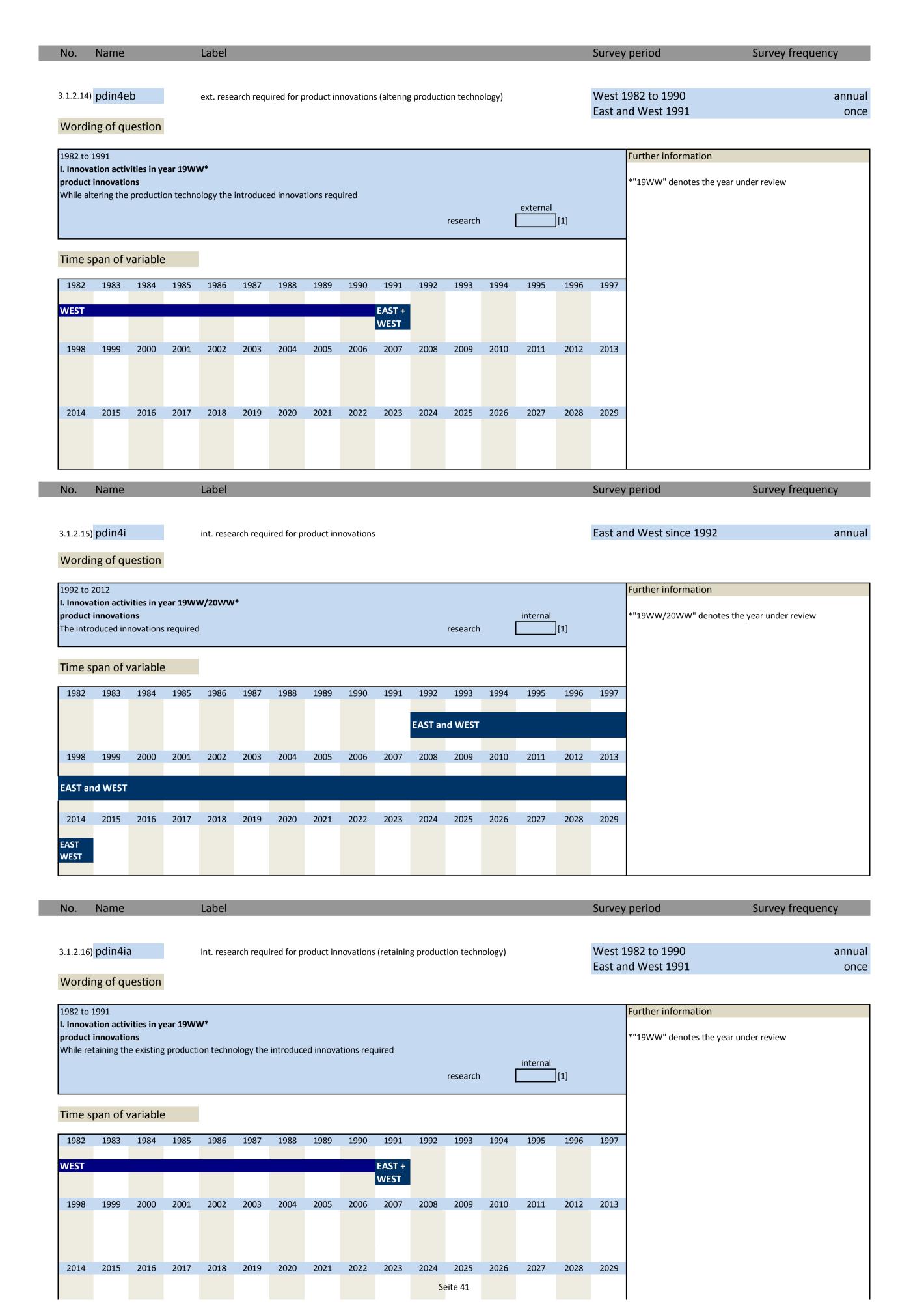
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

WEST

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2014	2015	2010	2017	2018	2019	2020	2021	2022	2023	2024	2025	2020	2027	2028	2029

No.	Name			Label											Survey	period Survey f	requency
3121	ı) pdin3k	1		product	innovatio	ns cance	lled (alter	ing produ	ıction tecl	hnology)					West 1	1982 to 1990	annual
				product	iiiiovatio	iis cance	ileu (alter	ing produ	iction teci	illiology)						nd West 1991	once
	ing of qu	restion	1														
	ation activ		year 19W\	W*												Further information	
•	t innovatio W*, while		the produ	ction tech	nnology, v	ve have					cancelled	l in novet	ione		7,41	*"19WW" denotes the year under review	
											cancenec	i iiiiiovat	.10115		<u>[</u> [1]		
Time	span of	variabl	e														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST			_						EAST +								
1000	1000	2000	2004	2002	2002	2004	2005		WEST	2000	2000	2010	2011	2042	2042		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
	_		_														
No.	Name	-		Label	-	-	-	-	-	•		-		-	Survey	period Survey f	requency
3.1.2.12) pdin4e	2		ext. rese	earch requ	iired for p	oroduct in	novation	S						East ar	nd West since 1992	annual
Word	ing of qu	uestion	1														
1992 to	2012															Further information	
produc	ation activ	ons			/ *								external	_		*"19WW/20WW" denotes the year under r	eview
The int	roduced in	novation	ns required	d ———							research			<u>[1]</u>			
Time	span of	variabl	e														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST a	nd WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST a	nd WEST																
			2017	2010	2010	2020	2024	2022	2022	2024	2025	2026	2027	2020	2020		
2014 EAST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
WEST																	
No.	Name			Label											Survey	period Survey f	requency
3.1.2.13) pdin4e	ea		ext. rese	earch requ	ired for p	oroduct in	novation	s (retainir	ng produ	ction techi	nology)			West 1	1982 to 1990	annual
	ing of qu		1												East ar	nd West 1991	once
1982 to																Further information	
I. Innov	ration activ t innovation		year 19W\	W*												*"19WW" denotes the year under review	
-	etaining th		g product	ion techn	ology the	introduc	ed innova	itions req	uired				external			15000 denotes the year under review	
											research			[1]			
Time	span of	variabl	e														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST									EAST +								
4000	1000	2000	2001	2002	2002	2004	3005	2000	WEST	2000	2000	2010	2044	2042	2012		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029



No. Name

Label

Survey period

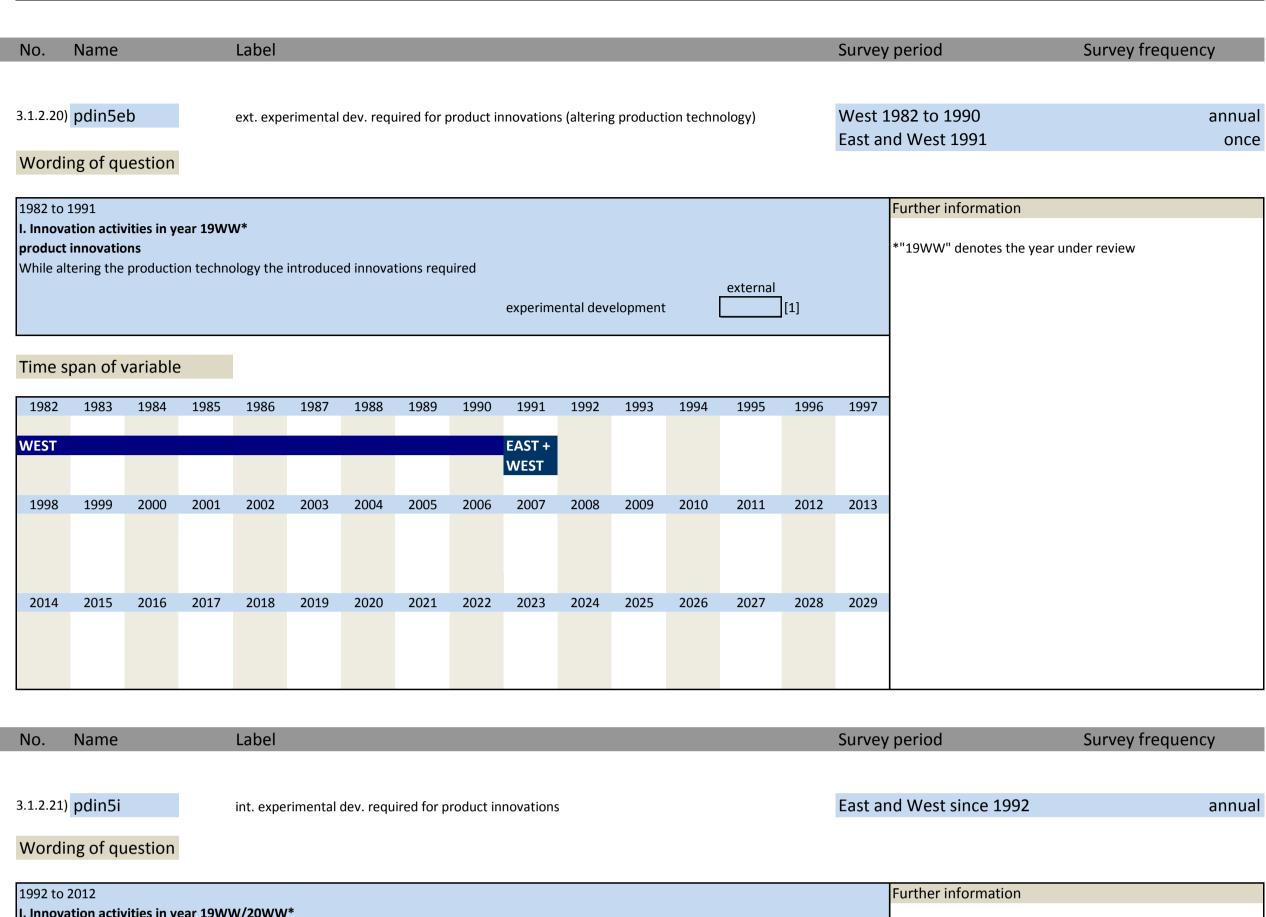
Survey frequency

Wording of question

1982 to 1 I. Innova product While alt	tion activ	ns			introduce	ed innovat	tions requ	uired			research		internal	[1]		*"19WW" denotes the year under review
Time s	oan of v	/ariable	2													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST + WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

No.	Name			Label											Survey	y period	Survey freque	ncy
3.1.2.18) Wordi	pdin5e			ext.expe	rimental	dev. requ	ired for p	roduct in	novations	5					East ar	nd West since 1992		annual
product The intro	ation activinovation	ons novations	s requirec		y*				experimo	ental dev	elopment		external	[1]		Further information *"19WW/20WW" denotes th	ne year under review	
Time s	pan of v	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992 EAST ar	1993 nd WEST	1994	1995	1996	1997			
1998 EAST ar	1999 nd WEST	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			

3.1.2.19) Wordin				ext. expe		•	•	iired for p	oroduct in	novation	S					1982 to 1990 nd West 1991	annual once
1982 to 1 I. Innova product i While ret	tion activ	ons			ology the	introduce	ed innova			ental dev	elopment		external	[1]		Further information *"19WW" denotes the year under review	
Time sp	1983	variable 1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
											eite 43						



Wordin	ng of qu	estion														
1992 to 2		vities in yo	ear 19WV	N/20WW	*											Further information
	innovatio	ns							experime	ental dev	elopment		internal	[1]		*"19WW/20WW" denotes the year under review
Time s	pan of v	/ariable														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
										EAST ar	nd WEST					
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST WEST																

3.1.2.22)	pdin5ia	a		int. expe	rimental	dev. requ	ired for p	roduct in	novations	s (retainir	ng produc	tion techr	nology)		West 1	1982 to 1990	annual
															East ar	nd West 1991	once
Wordi	ng of qu	uestion															
1982 to 3	1991															Further information	
I. Innova	ition activ	vities in y	ear 19W\	W*													
product	innovatio	ons														*"19WW" denotes the year under review	
While re	taining th	e existing	g product	ion techn	ology the	introduce	ed innova	itions req	uired								
													internal				
									experim	ental dev	elopment	t		[1]			
Time s	pan of v	variable	<u> </u>														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST									EAST +								
									WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
										Si	eite 44						
										30							

No.

Name

Label

Survey period

Survey frequency

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Survey period

West 1988 to 1990

Survey frequency

annual

Wording of question

Name

3.1.2.25) pdin6ea

No.

Label

1982 to 3 I. Innova product While alt	tion activ	ons			introduce	ed innova	tions requ	uired	experime	ental devi	elopment		internal	[1]		*"19WW" denotes the year under review
Time s	pan of v	/ariable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST + WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.1.2.24) pdin6e ext. construction required for product innovations Wording of question	annual
Wording of question	
1992 to 2012 I. Innovation activities in year 19WW/20WW* Further information	
product innovations external *"19WW/20WW" denotes The introduced innovations required construction [1]	the year under review
Time span of variable	
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	
EAST and WEST	
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	
EAST and WEST	
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029	
EAST CONTRACTOR OF THE CONTRAC	
WEST CONTRACTOR OF THE CONTRAC	

															East ar	nd West 1991	once
Wordi	ng of qu	uestion															
product	1991 ation active innovation in the state of	ons			ology the	introduc	ed innova	itions req	uired							Further information *"19WW" denotes the year under review	
					<i>-</i>			·			construc	tion	external	[1]			
	span of v			1000	1007	1000	1000	1000	1001	1003	1003	1004	1005	1000	1007		
1982	1983	1984	1985	1986	1987	WEST	1989		EAST +	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
1982	1983	1984	1985			2004		2006	2007	2024							

ext. construction required for product innovations (retaining production technology)

No.	Name	_	_	Label	_	_	_	_	_	_	_	_	_	_	Survey	period Surve	ey frequency
110.	Nume			Luber											Jaivey	periou surv	cy irequeitey
>	11 6		ı													1000 : 1000	
3.1.2.26)	pdinbe	b		ext. cons	struction	required 1	for produ	ct innova	tions (alte	ering pro	duction te	chnology	/)			1988 to 1990 nd West 1991	annu: onc
Wordin	ng of qu	estion													Last ai	id West 1991	Offic
	0 - 1																
1988 to 1		•••	40140													Further information	
	tion activ		ear 19W\	W*												*"19WW" denotes the year under revi	ew
While alt			on techno	ology the	introduce	ed innova	tions requ	uired								, , , , , , , , , , , , , , , , , , , ,	
											construc	tion	external	[1]			
											CONSTRUC	LIOII		[[+]			
Time o o		ملط منس م															
Time s	pan of v	/ariabie	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST			EAST+								
						WEST			WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
No.	Name			Label									_		Survey	period Surve	ey frequency
															,		,,,
			ı														
3.1.2.27)	pdin6i			int. cons	truction r	equired f	or produc	ct innovat	tions						East ar	nd West since 1992	annua
Wordir	ng of qu	estion															
1992 to 2					a ala											Further information	
	tion activ innovatio		ear 19W\	W/20WW	<i>]</i> *								internal			*"19WW/20WW" denotes the year un	ıder review
•	duced in		required	d							construc	tion	Internal	[1]		13vvvv/20vvvv denotes the year div	del review
Time si	pan of v	/ariable	7														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										FACT							
										EAST a	nd WEST						

No.	Name			Label											Survey	period Survey frequence	СУ
3.1.2.28)						truction re			ct innovati	ions						1988 to 1990 nd West 1991	annual once
1988 to I. Innova	ation activ	vities in y ons	ear 19W\		ology the	introduce	ed innova	tions req	uired				external			Further information *"19WW" denotes the year under review	
Time s	pan of	variable	1985	1986	1987	1988	1989	1990	1991	1992	construc	1994	1995	1996	1007		
1302	1303				1307				1001	1992	1993	1334	1993	1330	1997		

2011

2027

2026

2025

2012 2013

2029

2028

1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

2020

2021

2022 2023 2024

2017 2018 2019

EAST and WEST

EAST WEST

2014 2015 2016

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Survey period

Survey period

Survey frequency

Survey frequency

Wording of question

Name

No.

No.

Name

Label

Label

1988 to 1 I. Innova product While alt	tion activ	ns			introduce	ed innovat	tions requ	uired			construc	tion	external	[1]		Further information *"19WW" denotes the year under review
Time s	pan of v	/ariable														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
						WEST			EAST + WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.1.2.30)	pdin7e			ext. prod	luct desig	n require	d for proc	luct innov	ations/						East an	nd West since 1992	annua
	ng of qu	estion															
1992 to 2			40140		• str											Further information	
	tion activ innovatic	-	ear 19WV	N/20WW	, *								external			*"19WW/20WW" denotes the year under review	
			required							product	design			[1]		15VVV/20VVV denotes the year under review	
Timo c	pan of v	zariable	,														
rime s _i	pan or v	/ariabit															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST an	d WEST						
1000	1000	2000	2001	2002	2002	2004	2005	2006	2007	2000	2000	2010	2011	2012	2012		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST an	d WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST																	
NEST																	

3.1.2.31)	pdin7e	a		ext. prod	luct desig	gn require	d for prod	duct inno	vations (r	etaining p	oroductio	n technol	ogy)			.988 to 1990 nd West 1991	annual
Wordin	ng of qu	uestion													Last al	iu West 1331	once
1988 to 1																Further information	
product i	innovatio				ology the	e introduce	ed innova	tions req	uired							*"19WW" denotes the year under review	
									product	design		[external	[1]			
Time s _l	pan of v	/ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST			EAST + WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2010	2020	2021	2022	2022	2024	2025	2026	2027	2028	2020		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 Se	2025 eite 49	2026	2027	2028	2029		

No.	Name			Label											Survey	period	Survey frequency
3.1.2.32)	pdin7e	b		ext. prod	duct desig	gn require	d for prod	duct inno	vations (a	ltering pr	oduction	technolo	gy)		West 1	.988 to 1990	annua
															East ar	nd West 1991	once
Wordi	ng of qu	uestion															
1988 to																Further information	
	ation activ		ear 19W\	N *												this country is a second	
-	innovatio		on techno	alogy the	introduc	ed innova	tions real	uired								*"19WW" denotes the year und	der review
vviille all	ternig the	producti	on technic	Jiogy the	introduct	eu mnova	lions requ	ulleu					external				
									product	design				[1]			
T :	c .			ı													
Time s	pan of v	/ariabie															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST			EAST +								
									WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.1.2.33)	pdin7i			int.produ	uct desigr	n required	for prod	uct innov	ations						East ar	nd West since 1992	annual
Wordin	ng of qu	estion															
1992 to 2	2012															Further information	
I. Innova product The intro		ns			*					product	design		internal	[1]		*"19WW/20WW" denotes the year under review	
Time s _l	pan of v	/ariable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST ar	nd WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
	nd WEST		2017	2010	2010	2020	2024	2022	2022	2024	2025	2026	2027	2020	2020		
EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Label

Label

No.

Name

No. Name

Survey period

Survey period

Survey frequency

Survey frequency

3.1.2.34)	pdin7ia	a		int. prod	uct desig	n require	d for prod	luct innov	vations (re	etaining p	production	n technolo	ogy)		West 1	1988 to 1990	annual
Wordin	ng of qu	uestion													East ar	nd West 1991	once
1988 to 1	1991															Further information	
I. Innova product While ret	innovatio	ons			ology the	introduc	ed innova	tions req	uired				external			*"19WW" denotes the year under review	
									product	design				[1]			
Time s	pan of v	/ariable)														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST			EAST + WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008 _S	2009 eite 50	2010	2011	2012	2013		

3.1.2.35) pdin7ib West 1988 to 1990 int.product design required for product innovations (altering production technology) annual East and West 1991 once Wording of question 1988 to 1991 Further information I. Innovation activities in year 19WW* product innovations *"19WW" denotes the year under review While altering the production technology the introduced innovations required external product design [1] Time span of variable WEST EAST+ WEST

3.1.2.36) pdin6_7ea West 1982 to 1987 ext. construction & design required for product innovations annual (retaining production technology) Wording of question 1982 to 1987 Further information I. Innovation activities in year 19WW* *"19WW" denotes the year under review product innovations While retaining the existing production technology the introduced innovations required external construction, design Time span of variable 1983 1984 1985 1986 1987 1988 **WEST**

Survey period

Survey frequency

Name

No.

Label

NO.	Name	Labei	5	survey period	Survey frequency
	7) pdin6_7eb	ext. construction & design required for product innovations (altering production technology)	V	West 1982 to 1987	annual
1982 t I. Inno produ	o 1987 vation activities in year 19V	vw* nology the introduced innovations required		Further information *"19WW" denotes the year	under review
		construction, design	external [1]		
Time	span of variable	Seite 51			

1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
WEST															
WEST															
4000	4000	2000	2004	2002	2002	2004	2005	2006	2007	2000	2000	2040	2014	2042	2042
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Survey period

Survey period

Survey frequency

Survey frequency

Wording of question

Name

Name

No.

No.

Label

Label

1982 to 3	1987															Further information
I. Innova	tion activ	ities in y	ear 19W\	N*												
product																*"19WW" denotes the year under review
While re			nroducti	on techn	ology the	introduce	ed innova	tions rea	uired							
vviiie ie	tairiirig tri	C CAISCITIE	, producti	OII (CCIIII)	ology the	iiitioaact	ca iiiiiova	tions req	uncu				internal			
														1,,,		
										construc	tion, desi	gn		[1]		
				I												
Time s	pan of v	/ariable)													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST																
1000	1000	2000	2004	2002	2002	2004	2005	2006	2007	2000	2000	2010	2011	2012	2012	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.1.2.39) Wordii				int. const				or produc	t innovat	ions					West 1	.982 to 1987	annual
1982 to 3 I. Innova product While alt	tion activ	ns		N* blogy the	introduce	ed innova	tions requ	uired		construc	tion, desi _l	gn [internal	[1]		*"19WW" denotes the year under review	
Time s 1982 WEST	pan of v	/ariable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.1.2.40)															East ar	nd West since 1992	annual
Wordin	ng of qu	uestion															
1992 to 2			4014		· •											Further information	
I. Innova product Within th	innovatio	ons								licence w	vas obtair	ned		[1]		*"19WW/20WW" denotes the year under review	
Time s	pan of v	variable	<u> </u>														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST an	nd WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST an	d WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST WEST										Se	eite 53						

No.	Name			Label											Survey	period Survey frequency
3.1.2.41) pdin8a			licence o	btained f	or produ	ct innovat	ions (ret	aining pro	duction t	echnology	·)				.982 to 1990 annua
Wordi	ing of qu	uestion													East ar	nd West 1991 once
1982 to	1991 ation activ	/ities in y	ear 19W\	N *												Further information
product Within t	t innovatio the scope o	ons of these i	nnovatior	n projects										٦		*"19WW" denotes the year under review
while re	taining the	e existing	producti	on techno	ology					licence v	vas obtain	ed		<u>[</u> 1]		
	span of v			1005	4007	1000	4000	1000	1001	1002	1002	4004	4005	4006	4007	
1982 WEST	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST +	1992	1993	1994	1995	1996	1997	
4000	1000	2000	2004	2002	2002	2004	2005	2006	WEST	2000	2000	2010	2011	2012	2012	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2045	2016	2017	2010	2010	2020	2024	2022	2022	2024	2025	2025	2027	2020	2020	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
No.	Name			Label											Survey	period Survey frequency
) pdin8b			licence o	btained f	or produ	ct innovat	ions (alte	ering prod	uction te	chnology)					.982 to 1990 annua nd West 1991 once
	ing of qu	uestion														
	1991 ation activ		ear 19W\	N *												Further information *"19WW" denotes the year under review
Within t	the scope of the	of these i			occured					licence v	vas obtain	ed		[1]		,
Time s	span of v	variable	2													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST + WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
No.	Name			Label											Survey	period Survey frequency
3.1.2.43) pdin9			patent a	pplication	s during	product ir	nnovatio	ns						East ar	nd West since 1992 annua
	ing of qu	uestion														
1992 to			4014	/2014/14	· •											Further information
product	ation active innovation the scope of the sco	ons							application	ons of ov	n patents	i		7[1]		*"19WW/20WW" denotes the year under review
	•										·					
- .																
Time s	span of v			1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
	span of v	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992 EAST ar	1993 nd WEST	1994	1995	1996	1997	
				1986	1987	1988	1989	1990			1993 nd WEST 2009	1994	1995	1996	1997	

2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 Seit 2025 2026 2027 2028 2029



No.

Name

No. Name

Label

Label

West 1982 to 1990 East and West 1991

Survey period

Survey period

annual once

Survey frequency

Survey frequency

Wording of question

1982 to	1991															Further information
I. Innova	tion activ	vities in y	ear 19W\	N *												
product	innovatio	ons														*"19WW" denotes the year under review
			nnovation	n projects	occurred	ı										·
			producti						applicati	ons of ow	n patent	s		[1]		
	J	J	•		0.											
Time s	pan of v	variable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST+							
									WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.1.2.45) Wordii	pdin9b			patent a	pplication	s during _l	oroduct ir	nnovation	ns (alterin	g product	tion techr	nology)					inual once
product Within the while alt	ition activ	ons of these in production	nnovation on techno	n projects	occurred				application	ons of ow	vn patent:	5		[1]		Further information *"19WW" denotes the year under review	
1982 WEST	1983	1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.1.2.46)	pdin10			registerii	ng of desi	gns for pi	oduct inr	novations							East ar	nd West since 1992	annual
Wordin	ng of qu	uestion															
product	tion activ	ns		N/20WW n projects				registerii	ng of desi	gns		ļ][1]		Further information *"19WW/20WW" denotes the year under review	
Time s	pan of v	/ariable	1														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST ar	nd WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST an	d WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST WEST										So	eite 56						

No.

Name

Survey period

Survey period

Survey frequency

Survey frequency

Wording of question

Label

Label

1982 to	1991															Further information
I. Innova	ition activ	vities in y	ear 19W\	N *												
product	innovatio	ons														*"19WW" denotes the year under review
			nnovation	n projects	occurred	l										·
			producti					registeri	ng of desi	igns				[1]		
	, and the second		•		0,			J		·						
Time s	pan of v	variable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST+							
									WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.1.2.48) Wordii				registerii	ng of desi	gns for pr	oduct inr	novations	(altering	productio	on techno	ology)				1982 to 1990 and West 1991	annual once
1982 to 1 I. Innova product Within the while alt	ition activing innovation of the scope of th	ons of these in	nnovatio	n projects	occurred			registerir	ng of desi	gns				[1]		Further information *"19WW" denotes the year under review	
Time s 1982 WEST	pan of v	variable 1984	1985	1986	1987	1988	1989		1991 EAST +	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.1.3 Process innovations

3.1.3.1) pzin1	process innovations introduced	East and West since 1992	annual

Wording of question

No. Name

Wordin	ng of qu	estion														
1992 to 2	2012															Further information
I. Innova Process i In 19WW	innovatio	ns	ear 19W\	N/20WW	*						introduce	ed innova	tions		[1]	*"19WW/20WW" denotes the year under review
Time s	pan of v	/ariable	1													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
										EAST an	id WEST					
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	nd WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST										Se	eite 58					

WEST

Survey period

Survey frequency

Wording of question

Label

No.

Name

1982 to 1	1991															Further information
I. Innova	tion activ	ities in y	ear 19W\	N *												
Process i	innovatio	ns														*"19WW" denotes the year under review
In 19WW			e have													,
while ret				portfolio							introduc	ed innova	tions		[1]	
		o o/o6	, p. oaaoc	, , , , , , , , , , , , , , , , , , , ,											i1	
Time s	nan of v	zriahle	2													
Tillie 3	pail of v	/ai iabic	-													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1902	1903	1304	1903	1980	1307	1300	1909	1990	1991	1992	1993	1334	1993	1990	1997	
WEST									EAST+							
WEST																
									WEST							
1000	1000	2000	2001	2002	2002	2004	2005	2006	2007	2000	2000	2010	2011	2012	2012	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

No.	Name			Label											Survey	period	Survey frequency
3.1.3.3)	pzin1b	ı		process i	innovatio	ns introdu	iced in ac	dministra	tion						West 1	1982 to 1990	annual
															East ar	nd West 1991	once
Wordi	ng of qu	uestion															
1982 to 3	1991															Further information	
	ation activ	-	ear 19W\	W*													
	innovatio V* in adm		n we hav	Δ							introduc	ed innova	tions		[1]	*"19WW" denotes the year un	der review
111 130000	v iii aaiii	iiiistiatio	ii we nav	C							mtroduc	eu iiiiova	tions		[[+]		
T :	. .																
Time s	pan of v	variable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST									EAST +								
									WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
1996	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2015		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.1.3.4)	pzin2			process i	nnovatio	ns started	I								East ar	nd West since 1992	annual
Wordin	ng of qu	uestion															
1992 to 2 I. Innova Process i	ition activ	ns	ear 19W\	N/20WW	*			started ir	nnovation	ns or not f	finished v	et [[1]		Further information *"19WW/20WW" denotes the year under review	
Time s			<u>.</u>								,			<u> </u>			
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST ar	nd WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST an	nd WEST																
2014 EAST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
WEST										· ·	eite 60						

Survey frequency

Survey period

Wording of question

Label

No.

Name

1982 to 1 I. Innova Process i In 19WW while ret	tion activ nnovatio /* in prod	ns uction w	e have					started i	nnovatior	ns or not f	finished y	et [[1]		Further information *"19WW" denotes the year under review
Time s _l	pan of v	/ariable	<u> </u>													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST + WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

No.	Name			Label											Survey	y period	Survey frequen	icy
3.1.3.6)	pzin2b			process i	nnovatio	ns started	l in admir	nistration							West 1	1982 to 1990		annual
	•														East ar	nd West 1991		once
Wordin	ng of qu	estion																
1982 to 1		itios in v	oar 10\A/\	A/*												Further information		
Process i			eai 19VV	, v												*"19WW" denotes the year	ar under review	
In 19WW	/* in adm	inistratio	n we have	e				started in	nnovation	s or not	finished y	et		[1]		·		
Time sp	pan of v	/ariable	,															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
WEST									EAST +									
									WEST									
4000	1000	2000	2004	2002	2002	2004	2005	2006	2007	2000	2000	2040	2011	2012	2012			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
2014	2013	2010	2017	2010	2013	2020	2021	2022	2023	2024	2023	2020	2027	2020	2023			
																ı		

3.1.3.7)	pzin3			process i	nnovatio	ns cancell	ed								East ar	nd West since 1992 a	nnua
Nordin	ng of qu	estion															
.992 to 2																Further information	
rocess i	tion activence of the control of the	ns	ear 19W\	W/20WW	(*						cancelled	d innovati	ons		[1]	*"19WW/20WW" denotes the year under review	
Time sp	oan of v	/ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST an	d WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
AST an	d WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
AST VEST																	

Survey period

Survey frequency

Wording of question

Label

No.

Name

1982 to 1	1991															Further information
I. Innova	tion activ	ities in y	ear 19W\	N *												
Process i	innovatio	ns														*"19WW" denotes the year under review
In 19WW	/* in prod	uction w	e have													, '
while ret				portfolio							cancelled	d innovati	ons		[1]	
		o o/o6	, p. oaaoc	, , , , , , , , , , , , , , , , , , , ,									00		L – J	
Time	nan of v	ariable														
Time s	pan or v	/ariabit	=													
1002	1000	1001	1005	1000	4007	1000	1000	1000	1001	1002	1002	1001	4005	1006	4007	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
) / (EOE									5 A C = .							
WEST									EAST +							
									WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

No.	Name			Label											Survey	y period	Survey frequ	iency
3.1.3.9)	pzin3b			process i	nnovatio	n cancelle	ed in admi	inistratio	n							1982 to 1990		annual
\A/o rdin	of a	ıostion													East ar	nd West 1991		once
Wordin	ig oi qu	lestion																
1982 to 1																Further information		
I. Innova Process i In 19WW	nnovatio	ns									cancelled	d innovati	ons		[1]	*"19WW" denotes the ye	ear under review	
Time sp	pan of v	/ariable	1															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
WEST									EAST + WEST									
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			

3.1.3.10)	pzin4e			ext. rese	arch requ	ired for p	rocess ini	novations	5						West 1	1982 to 1990	annual
Wordin					·	·									East ar	nd West since 1991	annual
1982 to 1 I. Innova Process i In produc while ret	tion activence the contraction the	introduce	ed innova	tions requ	uired						research		external][1]		Further information *"19WW/20WW" denotes the year under review	
1992 to 2 I. Innova Process i The intro	tion activ	ns			/*						research	ı	external][1]			
Time s	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST	1303	1301	1303	1300	150,	1300	1303	1330		nd WEST		1331	1333		1331		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST an	d WEST									S	eite 64						

EAST WEST	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
WEST CONTRACTOR OF THE CONTRAC	EAST															
	WEST															

int. research required for process innovations

West 1982 to 1990 annual East and West since 1991 annual

Wording of question

1982 to 3	1991															Further information
	ition activ	ities in v	aar 19\\/\	۸/*												Tartiel information
	innovatio	•	cai 15vv													*"19WW/20WW" denotes the year under review
	ction the		ad innova	tions roa	uirad								internal			150000/200000 denotes the year under review
-					uireu								internal][4]		
while ret	taining the	e existing	product	portfolio							research			[1]		
1992 to 2	2012															
	tion activ	ities in v	ear 19W\	w/20ww	/ *											
	innovatio			.,									internal			
	duced in		required								research			[1]		
THE IIIC	Judeed IIII	TOVACIONS	required								research](+)		
Times	pan of v	zriahle	2													
Tillie 3	pan or v	/ai iabic	=													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST ar	nd WEST						
4000	1000	2000	2004	2002	2000	2004	2005	2006	2007	2000	2000	2010	2011	2012	2010	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST ar	nd WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
2014	2013	2010	2017	2010	2013	2020	2021	2022	2023	2024	2023	2020	2027	2020	2023	
EAST																
WEST																
WEST																

No.	Name			Label											Survey	period	Survey freque	ncy
3.1.3.12)	pzin5e			ext. expe	erimental	dev. requ	uired for p	rocess in	novations	S					West 1	1982 to 1990		annual
.	c														East ar	nd West since 1991		annual
Wordi	ng of qu	iestion																
1982 to																Further information		
	ation activ		ear 19W\	W*												*"19WW/20WW" denote	s the year under review	
7	iction the				uired								external	1,,,			•	
while re	taining the	e existing	product	portfolio					experime	ental deve	elopment			[1]				
1992 to	2012 ation activ	ditios in v	oor 10\A/\	M//20\A/\A	<i>ı</i> *													
	innovatio		ear 19vv	vv/20vv vv									external	_				
The intro	oduced ini	novations	s required	t					experime	ental deve	elopment			[1]				
_																		
Time s	span of v	/ariable	9															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
WEST									EAST an	d WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
EAST a	nd WEST																	
2014	2015	2016	2017	2010	2010	2020	2024	2022	2022	2024	2025	2026	2027	2020	2020			
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
EAST WEST																		

N	Name	Label	Survey period	Survey frequency

Label

West 1982 to 1990 annual East and West since 1991 annual

Survey frequency

Survey period

Wording of question

Name

No.

1982 to 3	1991															Further information
I. Innova	ition activ	ities in y	ear 19W\	V *												
Process	innovatio	ns														*"19WW/20WW" denotes the year under review
In produ					uired								internal	•		
while ret	taining the	e existing	g product	portfolio					experime	ental dev	elopment			[1]		
1992 to 2	2012															
I. Innova	ition activ	ities in y	ear 19W\	v/20ww	/ *											
Process	innovatio	ns											internal			
The intro	oduced in	novations	s required						experime	ental dev	elopment			[1]		
Times	non of	, a ri a b l s	_													
Time s	pan of v	/ariabie	=													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST																
VVLST									EAST an	id WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST ar	nd WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
FACT																
EAST WEST																
VLST																

															,		
3.1.3.14)	pzin6e			ext. cons	struction	required f	or proces	s innovat	ions							.982 to 1990	annual
Wordin	ng of qu	estion													East ar	nd West since 1991	annual
1982 to 1	991		•													Further information	
I. Innova	tion activ		ear 19W\	N *													
Process i			ed innova	tions real	uired								external			*"19WW/20WW" denotes the year under review	
while reta					un cu					construc	tion		external	[1]			
1992 to 2	2012																
I. Innova	tion activ		ear 19W\	N/20WW	/ *												
Process i The intro			s required	l						construc	tion		external	[1]			
Time sp	oan of v	/ariable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
MECT																	
WEST									EAST ar	nd WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
1338	1333	2000	2001	2002	2003	2004	2003	2000	2007	2008	2003	2010	2011	2012	2013		
EAST an	d WEST																
2014	2015	2016	2017	2010	2010	2020	2024	2022	2022	2024	2025	2026	2027	2020	2020		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST WEST																	
VVLST																	

No.	Name	Label	Survey period	Survey frequency
			· · · · · · · · · · · · · · · · · · ·	, , ,

West 1982 to 1990 annual East and West since 1991 annual

Wording of question

1982 to 3																Further information
I. Innova		•	ear 19W\	N *												* 40\40\40\40\40\40\40\40\40\40\40\40\40\4
Process i			ad innova	tions real	iired								internal			*"19WW/20WW" denotes the year under review
while ret				-	aneu					construc	tion	Ĭ		[1]		
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									L		, i. – ,		
1992 to 2	2012															
I. Innova			ear 19WV	N/20WW	*											
Process i												ı	internal	 rai		
The intro	auced inr	novations	required							construc	tion	l		[1]		
Time s	pan of v	ariable	<u> </u>													
				1												
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST																
WEST									EAST an	d WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST																
WEST																

No.	Name			Label											Survey	period	S	Survey freque	ency
3.1.3.16)	pzin8			licence c	obtained f	or proces	s innovat	ions								1982 to 1990			annual
Wordi	ng of qu	estion													East ar	nd West since 199	91		annual
Process Within tl	1991 Ition active Innovation Innovation In scope of taining the	ns of these i	nnovatior	n projects	in produ	ction occı	ured			obtainme	ent of lice	ence][1]		Further information *"19WW/20WW" der		ar under review	
Process Within the	2012 Ition active Innovation The scope of	ns of these i	nnovation							obtainme	ent of lice	ence][1]					
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997				
WEST									EAST an	nd WEST									
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013				
EAST ar	nd WEST																		
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029				

Ν	lo. ľ	Name	Label	Survey period	Survey frequency

West 1982 to 1990 annual East and West since 1991 annual

Survey frequency

Survey period

Wording of question

Name

No.

Label

1982 to 3 I. Innova Process i Within the	tion activ nnovatione scope o	ns of these in	nnovatior	n projects	in produc	ction occu	ured		applicati	ons of ow	n patents	s [][1]		*"19WW/20WW" denotes the year under review
1992 to 2 I. Innova Process i Within th	tion activ nnovatio ne scope o	ns of these i	nnovatior						applicati	ons of ow	n patents	s [][1]		
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST ar	d WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

West 1982 to 1990 East and West since 1991 East and West since 1991	for process innovation West 1982 to 1990	annual
Wording of question 1982 to 1991 L. Innovation activities in year 19WW* Process innovation projects in production occured while retaining the existing product portfolio registering of designs [1] 1992 to 2012 L. Innovation activities in year 19WW/20WW* Process innovations Within the scope of these innovation projects occured registering of designs [1] Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST and WEST		annual
I. Innovation activities in year 19WW* Process innovations Within the scope of these innovation projects occured while retaining the existing product portfolio registering of designs 1992 to 2012 1 1992 to 2012 1 1992 to 2013 1994 to 2014 1995 to 2015 1995 to 2015 1996 to 2016 1997 1998 to 2000 to 2001 to 2002 to 2003 to 2004 to 2005 to 2006 to 2007 to 2008 to 2009 to 2010 to 2011 to 2012 to 2013 2013 to 2014 to 2015 to 2016 to 2	Lust and West sink	diliida
#*************************************	Further infor	
Within the scope of these innovation projects in production occured while retaining the existing product portfolio registering of designs [1] 1992 to 2012 I. Innovation activities in year 19WW/20WW* Process innovations Within the scope of these innovation projects occured registering of designs [1] Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST and WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST	*"19WW/20V	review
1992 to 2012		
Innovation activities in year 19WW/20WW* Process innovations [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	registering of designs [1]	
Process innovations Within the scope of these innovation projects occured registering of designs Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST and WEST EAST and WEST EAST and WEST		
Within the scope of these innovation projects occured registering of designs [1] Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST and WEST EAST and WEST EAST and WEST		
Time span of variable 1982	registering of designs	
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST		
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST		
WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST		
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST EAST and WEST	988 1989 1990 1991 1992 1993 1994 1995 1996 1997	
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST	EAST and WEST	
EAST and WEST	EAST and WEST	
	004 2005 2006 2007 2008 2009 2010 2011 2012 2013	
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029		
2014 2013 2010 2017 2010 2013 2020 2021 2022 2023 2024 2023 2020 2027 2020 2023	020 2021 2022 2023 2024 2025 2026 2027 2028 2029	
	2021 2022 2024 2025 2027 2020 2025	
EAST WEST		
WEST CONTRACTOR OF THE PROPERTY OF THE PROPERT		

3.2 Goals of innovations

	Name			Label											Survey	period :	Survey frequency
	ziel1 ling of qu	uestion		dev. of s	uccessive	products	s for disco	ontinued	ones							.982 to 1990 nd West since 1991	annua irregula
produc With th we prin 1991 II. Goal produc	Is of innovation in innovation	ons on activit re: ations ons					developr	for disco	ontinued o	ones	e products s for disco	ntinued	ones][2]***][1]		Further information *"19WW/20WW" denotes the ye **[4] 1995 - 2008 We get this characteristic in case ticked off a goal of innovation, bu importance for the company (e.g ***[2] 1982-1990 "important" m	the participating company ut did not classify the g. important)
Please u	se the followi	ng classific	ation:								importar very imp			[2] [3]		primarily aspired	
produc With th 19WW,	2012 Is of innovation Is innovatio	ons on activit ve (prima	rily) aspi		1		developr	ment of s	uccessive	no impo little importa very imp	oortant nt	ntinued		[0] [1] [2] [3]			
Time	span of v	variable	9														
1982 WEST	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST +	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	WEST 2007	2008	2009	2010	2011	2012	2013		
	and WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST WEST																	
No.																	
	Name	-		Label	-		_		_	_		_		_	Survev	period	Survey frequency
2 2 4 1	Name			Label						at line			_				Survey frequency
	²⁾ ziel2	uestion			on of the p	product r	ange with	in the m	ain produ	ct line					West 1	period S 982 to 1990 and West since 1991	Survey frequency annua irregula
Word	ziel2 ling of qu				on of the p	product r	ange with	in the m	ain produ	ct line					West 1 East ar	.982 to 1990	annua
Word 1982 to II. Goal produc With th we prir	ziel2 ling of qu	ations ons on activit		expansio		product r	expansio	on of the	ain product randoct lin	ange				[2]***	West 1 East ar	982 to 1990 nd West since 1991 Further information *"19WW/20WW" denotes the ye **[4] 1995 - 2008 We get this characteristic in case	annua irregula ear under review the participating company
1982 to II. Goal Product With the We print 1991 II. Goal Product With the We asp	ziel2 ling of quantity 1990 ls of innovation in innovation in innovation is of innovation it innovation it innovation	ations on activit e: ations ons on activit	ies imple	expansion	า 19WW*	product r	expansion within the expansion	on of the ne main p	product ra	ange ne ange	little imp	nt		[1] [2]	West 1 East ar	982 to 1990 nd West since 1991 Further information *"19WW/20WW" denotes the ye **[4] 1995 - 2008	annua irregula ear under review the participating company ut did not classify the g. important)
Word 1982 to II. Goal product With th we print 1991 II. Goal product With th we asp Please us 1995 - II. Goal product With th we asp	ziel2 ling of quantity 1990 ls of innovation innovation innovation innovation innovation innovation in innovation	ations on activit ee: ations on activit ng classifica ations on activit ee (prima	ies imple ation: ies imple rily) aspir	expansion mented in mented in	n 19WW*	product r	expansion within the expansion with the expansion within the expansion with the expansion wi	on of the main pon of the main p	product ra	ange ange ne	importar very imp rtance portant nt	nt		[1]	West 1 East ar	982 to 1990 nd West since 1991 Further information *"19WW/20WW" denotes the ye **[4] 1995 - 2008 We get this characteristic in case ticked off a goal of innovation, bu importance for the company (e.g.	annua irregula ear under review the participating company ut did not classify the g. important)
1982 to II. Goal product With the we print 1991 II. Goal product With the we asp Please us 1995 - II. Goal product With the ye asp Please us 1998 - III. Goal product With the 19WW Please us	ling of quality of 1990 Is of innovation in innovation in innovation in innovation in innovation in it innovation in innovat	ations on activit e: ations ons on activit ng classifications on activit ve (prima ng classifications on g classifications	ies imple ies imple ation: ies imple rily) aspir	expansion mented in mented in	n 19WW*	product r	expansion within the expansion with the expansion within the expansion with the expansion wi	on of the main pon of the main p	product range product range product line	ange ange ange ne no impo little importa	importar very imp rtance portant nt	nt		[1] [2] [3]	West 1 East ar	982 to 1990 nd West since 1991 Further information *"19WW/20WW" denotes the ye **[4] 1995 - 2008 We get this characteristic in case ticked off a goal of innovation, bu importance for the company (e.g.	annua irregula ear under review the participating company ut did not classify the g. important)
1982 to II. Goal product With the we print 1991 II. Goal product With the we asp Please us 1995 - II. Goal product With the yease us 1998 - III. Goal product Time	ling of quality of 1990 Is of innovation in	ations on activit e: ations ons on activit ng classifications on activit ve (prima ng classifications on g classifications	ies imple ies imple ation: ies imple rily) aspir	expansion mented in mented in	n 19WW*	1988	expansion within the expansion with the expansion within the expansion with the expansion wi	on of the main pon of the main p	product range product line	ange ange ange ne no impo little importa	importar very imp rtance portant nt	nt	1995	[1] [2] [3]	West 1 East ar	982 to 1990 nd West since 1991 Further information *"19WW/20WW" denotes the ye **[4] 1995 - 2008 We get this characteristic in case ticked off a goal of innovation, bu importance for the company (e.g.	annua irregula ear under review the participating company ut did not classify the g. important)
1982 to II. Goal product With the we print 1991 II. Goal product With the we asp Please us 1995 - II. Goal product With the ye asp Please us Time	ling of quality of 1990 Is of innovation in	ations on activit e: ations ons on activit ng classific ations on activit ve (prima ng classific	ies imple ies imple ation: ies imple rily) aspir ation**:	mented in	n 19WW*		expansion within the expansion with the expansion within the expansion w	on of the main pon of the main pon of the main p	product raproduct In	ange ange ange ne no impo little importa very imp	rtance portant nt	nt ortant	1995 EAST an	[1] [2] [3] [0] [1] [2] [3]	West 1 East ar	982 to 1990 nd West since 1991 Further information *"19WW/20WW" denotes the ye **[4] 1995 - 2008 We get this characteristic in case ticked off a goal of innovation, bu importance for the company (e.g.	annua irregula ear under review the participating company ut did not classify the g. important)

EAST and WEST
Seite 70

3.2.1 Product innovations

2	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	O															
EA WI	ST EST															

Survey period

Survey period

Survey frequency

No.

Name

Name

No.

1998

1999

2000

2001

Label

2002

2003

2004

2005

2006

Label

3.2.1.3) ziel3 West 1982 to 1990 annual expansion of the product range beyond the main product line East and West since 1991 irregular Wording of question 1982 to 1990 Further information II. Goals of innovations product innovations *"19WW/20WW" denotes the year under review [2]*** With the innovation activities implemented in 19WW* expansion of the product range we primarily aspire: beyond the main product line **[4] 1995 - 2008 We get this characteristic in case the participating company ticked off a goal of innovation, but did not classify the 1991 importance for the company (e.g. important) II. Goals of innovations expansion of the product range product innovations beyond the main product line With the innovation activities implemented in 1991 ***[2] 1982-1990 "important" means we aspire: little important [1] [2] important primarily aspired Please use the following classification: [3] very important 1995 - 2012 II. Goals of innovations expansion of the product range product innovations beyond the main product line With the innovation activities implemented in 19WW/20WW* we (primarily) aspire: no importance Please use the following classification**: little important [1] important [2] very important [3] Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST + **EAST and WEST WEST** 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 **EAST and WEST** 2015 2017 2019 2021 2014 2016 2018 2020 2022 2023 2024 2025 2026 2027 2028 2029 **EAST** WEST Survey frequency

3.2.1.4) ziel4 West 1982 to 1990 annual maintenance of the market share East and West since 1991 irregular Wording of question 1982 to 1990 Further information *"19WW/20WW" denotes the year under review [2]*** maintenance of the market share **[4] 1995 - 2008

II. Goals of innovations product innovations With the innovation activities implemented in 19WW* we primarily aspire: We get this characteristic in case the participating company ticked off a goal of innovation, but did not classify the 1991 importance for the company (e.g. important) **II. Goals of innovations** product innovations maintenance of the market share With the innovation activities implemented in 1991 ***[2] 1982-1990 "important" means we aspire: little important [1] [2] important primarily aspired Please use the following classification: very important [3] 1995 - 2012 II. Goals of innovations product innovations maintenance of the market share With the innovation activities implemented in 19WW/20WW* we (primarily) aspire: no importance [1] Please use the following classification **: little important important [2] [3] very important Time span of variable 1986 1987 1990 1991 1992 1993 1994 1995 1996 1982 1983 1984 1985 1988 1989 1997 EAST + WEST **EAST and WEST** WEST Seite 71

2008

2009

2010

2007

2011

2012

2013

EAST an	d WEST														
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EAST															
WEST															

No.	Name			Label											Survey	period	Survey frequency
3.2.1.5) Wordin		ıestion		increasin	g the ma	rket share	<u>.</u>								East ar	nd West 1991	once
1991 II. Goals of product if With the we aspired Please use if	innovatio innovatio e:	o ns on activiti		nented in	1991				increasin		rket share little imp importar very imp	ortant it		[1] [2] [3]		Further information	
Time sp	oan of v	variable 1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Survey period

West 1982 to 1990

Survey frequency

annual

Label

entering new internalational markets

Name

3.2.1.6) ziel5

No.

With the innovation activities implemented in 19WW* we primarily aspire: **[4] 1995 - 2008 We get this character ticked off a goal of in	n enotes the year under review
II. Goals of innovations product innovations With the innovation activities implemented in 19WW* we primarily aspire: 1995 - 2012 *"19WW/20WW" de *"19WW/20WW" de *"19WW/20WW" de *"199W/20WW" de *"199W/20WW" de *"1995 - 2008 We get this characted ticked off a goal of in	
	ristic in case the participating company
product innovations	novation, but did not classify the ompany (e.g. important)
With the innovation activities implemented in 19WW/20WW* we (primarily) aspire: Please use the following classification**: Iittle important important [2] [2] [3] Time span of variable	nportant" means
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	
WEST EAST and WEST	
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	
EAST and WEST	
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST WEST	

3.2.1.7) ziel5_1

entering new national markets

Label

Label

entering new markets in North America

East and West 1991

Survey period

Survey period

East and West 1991

once

Survey frequency

Survey frequency

once

Wording of question

No.

No.

Name

3.2.1.9) ziel5_3

Name

prod	oals of uct in	innova novatio	ns	os implo	montod in	1001				entering	new nati	onal mark	cets			
we as	spire:		on activiti		nented in	1391						little imp importar very imp	nt		[1] [2] [3]	
Tim	e spa	an of v	ariable													
198	32	1983	1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997
199	98	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013

3.2.1.8)	ziel5_2			entering	new mai	rkets with	in the EC								East ar	nd West 1991	once
Wordin	ng of qu	uestion															
1991 II. Goals product With the we aspire	innovation innovation e:	ons on activit		mented ir	า 1991				entering		kets with	ortant		[1]		Further information	
Please use	pan of v										importar very imp			[2] [3]			
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST + WEST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

Wordin	ng of qu	estion															
1991 II. Goals									entering	new mar	kets in No	orth Ame	rica			Further information	
With the			es impler	mented in	1991						little imp	ortant][1]			
we aspire		ng classifica	ation:								importar very imp	nt		[2] [3]			
Time s _l	pan of v	/ariable	<u> </u>														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
									EAST + WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

3.2.1.10) ziel5_4 entering new markets in Japan once

١	٨	In	rdi	inσ	οf	au	esti	on
١	/ V	v	ıu	IIIK	UΙ	uu	IC3LI	UII

No.

No.

Name

Name

Label

Label

1991																Further information
II. Goals	of innova	tions							entering	new mar	kets in Ja	pan				
product	innovatio	ns														
With the	innovation	on activiti	es impler	nented in	1991							_		_		
we aspi	e:										little imp	ortant		[1]		
	the followi	ng classifica	ition:								importar	it		[2]		
											very imp			[3]		
											,					
Time	pan of v	zriahle	,													
Tillie 3	parior	ariabic														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1362	1903	1304	1903	1980	1367	1300	1303	1990	1991	1992	1993	1334	1993	1990	1997	
									FACT							
									EAST +							
									WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

Survey period

Survey period

Survey frequency

Survey frequency

3.2.1.11)	ziel5_5			entering	new mar	kets in ot	her count	ries							East ar	nd West 1991	once
Wordin	ng of qu	uestion															
1991 II. Goals (product i									entering	new mar	kets in otl	her count	ries			Further information	
we aspire	e: the followi	on activiti ng classifica <mark>/ariable</mark>	ation:	mented in	1991						little imp importan very impo	it		[1] [2] [3]			
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
									EAST + WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

3.2.1.12) ziel6 entering new markets with Wording of question	respect to new target groups		1982 to 1990 and West since 1991	annual irregular
1982 to 1990 II. Goals of innovations product innovations With the innovation activities implemented in 19WW* we primarily aspire:	entering new markets with respect to new target groups	[2]***	*"19WW/20WW" denotes the year under **[4] 1995 - 2008 We get this characteristic in case the part	
1991 II. Goals of innovations product innovations	entering new markets with respect to new target groups		ticked off a goal of innovation, but did no importance for the company (e.g. importa	

With the	innovatio	n activiti	es impler	nented ir	1991									•			
we aspir	e:										little imp	ortant		[1]	:	***[2] 1982-1990 "important" m	eans
Please use	the following	ng classifica	ation:								importar			[2]		primarily aspired	
											very imp	ortant		[3]			
1995 - 20																	
	of innova							entering									
•	innovatio			. , .				with resp	pect to n	ew target	groups						
	innovatio				1],,,			
	20WW* w			e:						no impoi				[0]			
Please use	the following	ng classifica	ation**:							little imp				[1]			
										importar				[2]			
										very imp	ortant			[3]			
Time s	pan of v	ariable	,														
	pa 0	arrabre															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
) A (C T									- A CT -								
WEST									EAST + WEST				EAST an	d WEST			
									WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST ar	nd WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST																	
WEST																	

Survey period

Survey frequency

3.2.2 Process innovations

Name

No.

Label

3.2.2.1) Wordin		estion		increasin	ig flexibili	ty of prod	luction									1982 to 1990 nd West since 1991	annual irregular
1982 to 1 II. Goals of Process in With the we prima	of innova nnovatio innovatio	ns on activiti	es impler	mented in	ı 19WW*			increasin	ng flexibili	ity of proc	duction			[2]***		*"19WW/20WW" denotes the year under rev **[4] 1995 - 2008 We get this characteristic in case the participa	
1991 II. Goals of Process in With the we aspired Please use to the process of the	nnovatio innovatio	ns on activiti		mented in	1991			increasin	ng flexibili		duction little imp importar very imp	nt		[1] [2] [3]		ticked off a goal of innovation, but did not class importance for the company (e.g. important) ***[2] 1982-1990 "important" means primarily aspired	
1995 - 20 II. Goals of Process in With the in 19WW Please use	of innova nnovatio innovatio	ns on activiti we prima	rily aspire					increasin	ng flexibili	no impor little imp importar very imp	rtance oortant nt			[0] [1] [2] [3]			
1982 WEST	oan of v	variable 1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995 EAST and	1996 d WEST	1997		
1998 EAST an	1999 d WEST	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Survey period

annual irregular

Survey frequency

Wording of question

Name

Label

No.

1982 to 2	1990															Further information
II. Goals	of innova	tions						reductio	n of prod	uction co	sts by					
Process i								reductio	n of wage	costs				•		*"19WW/20WW" denotes the year under review
With the			ies impler	mented ir	19WW*									[2]***		
we prima	arily aspir	e:														**[4] 1995 - 2008
																We get this characteristic in case the participating company
1991																ticked off a goal of innovation, but did not classify the
II. Goals										uction co	sts by					importance for the company (e.g. important)
Process i								reductio	n of wage	costs						
With the		on activiti	ies impler	mented ir	า 1991									l		
we aspire											little imp			[1]		***[2] 1982-1990 "important" means
Please use	the followi	ng classifica	ation:								importar very imp			[2] [3]		primarily aspired
											, ,			[[-]		
1995 - 20		itions						reductio	n of prod	uction co	sts by					
Process i									n of wage		•					
With the	innovatio	on activiti	ies impler	mented					J							
in 19WW	/20WW*	we prima	rily aspire	e:						no impo	rtance			[0]		
Please use	the followi	ng classifica	ation**:							little imp	ortant			[1]		
										importar	nt			[2]		
										very imp	ortant			[3]		
Time s	pan of v	/ariable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST +							
									WEST				EAST and	d WEST		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST																
WEST																

3.2.2.3)	ziel9			reductio	n in mate	rial consu	ımption								West 1	1982 to 1990	annual
Wordi	ng of qu	estion													East ar	nd West since 1991	irregular
Process With the	1990 of innovation innovation innovation innovation arily aspir	ns on activit	ies implei	mented ir	า 19WW*					uction co][2]***		*"19WW/20WW" denotes the year und **[4] 1995 - 2008	
Process With the	of innovation innovation innovation in innov	ns on activit		mented ir	า 1991							nt		[1] [2] [3]		We get this characteristic in case the paticked off a goal of innovation, but did importance for the company (e.g. importance for th	not classify the
Process With the in 19WW	of innovation innovation innovation v20WW* the following	ns on activit we prima	arily aspir							no impo little imp importai very imp	rtance portant			[0] [1] [2] [3]			
Time s	pan of v	/ariable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	EAST + WEST 2007	2008	2009	2010	EAST an 2011	2012	2013		
	nd WEST	2016	2017	2010	2010	2020	2024	2022	2022	2024	2025	2026	2027	2020	2020		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Survey period

annual irregular

Survey frequency

Wording of question

Name

Label

No.

WEST

1982 to 1	.990															Further information
II. Goals	of innova	tions						reductio	n of prod	uction cos	sts by					
Process i								reductio	n in ener	gy consun	nption			1		*"19WW/20WW" denotes the year under review
With the			es impler	nented in	19WW*									[2]***		
we prima	rily aspire	e:														**[4] 1995 - 2008
1001																We get this characteristic in case the participating company
1991																ticked off a goal of innovation, but did not classify the importance for the company (e.g. important)
II. Goals Process i										uction cos						importance for the company (e.g. important)
With the			es impler	nented in	1001			reductio	n in energ	gy consun	приоп					
we aspire		ni activiti	es implei	nenteu iii	1 1991						little imp	ortant		[1]		***[2] 1982-1990 "important" means
Please use		ng classifica	ition:								importar			[2]		primarily aspired
r icase ase	the followin	ig classified									very imp			[3]		
											,			1101		
1995 - 20	12															
II. Goals	of innova	tions						reductio	n of prod	uction cos	sts by					
Process i	nnovatio	ns								gy consun						
With the	innovatio	n activiti	es impler	nented										_		
in 19WW	20WW* \	we prima	rily aspire	e:						no impoi	rtance			[0]		
Please use	the followir	ng classifica	ition**:							little imp	ortant			[1]		
										importar	nt			[2]		
										very imp	ortant			[3]		
Time s _l	oan of v	/ariable														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST +				EAST and	d WEST		
									WEST				LAST and	u vvlji		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
																1
EAST																
EAST WEST																

3.2.2.5) Wordi	ziel11 ng of qu	estion		reductio	n in wasto	e product	ion									1982 to 1990 nd West since 1991	annua irregular
1982 to II. Goals Process With the		tions ns on activiti		mented ir	ı 19WW*					uction cos e product	-][2]***		*"19WW/20WW" denotes the year under **[4] 1995 - 2008	
Process With the we aspir	of innova innovatio innovatic e: the followir	ns on activiti		mented ir	າ 1991							nt		[1] [2] [3]		We get this characteristic in case the particked off a goal of innovation, but did no importance for the company (e.g. import ***[2] 1982-1990 "important" means primarily aspired	t classify the
Process With the in 19WW	of innova innovatio innovatio /20WW* v the followin	ns on activiti we prima	rily aspire							uction cos e product no impoi little imp importar very imp	ion rtance portant nt			[0] [1] [2] [3]			
Time s	pan of v	variable	ģ														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST 1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST	2008	2009	2010	EAST an 2011	d WEST	2013		
	d WEST	2500	2301		2000	2301	2303		2307		2333				2323		

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2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029

Survey period

annual irregular

Survey frequency

Wording of question

Name

Label

No.

EAST WEST

																I
1982 to 1 II. Goals Process i With the we prima	of innova nnovatio innovatio	ns on activiti	ies impler	mented ir	า 19WW*			improve	ment of v	vorking co	onditions			[2]***		*"19WW/20WW" denotes the year under review **[4] 1995 - 2008 We get this characteristic in case the participating company
1991 II. Goals Process i With the we aspire	nnovatio innovatio	ns on activiti		nented ir	າ 1991			improve	ment of v		onditions little imp importai very imp	oortant nt		[1] [2] [3]		ticked off a goal of innovation, but did not classify the importance for the company (e.g. important) ****[2] 1982-1990 "important" means primarily aspired
1995 - 20 II. Goals Process i With the in 19WW Please use	of innova nnovatio innovatio /20WW* v	ns on activiti we prima	rily aspire					improve	ment of v	no impo little imp importar very imp	onditions rtance portant nt			[0] [1] [2] [3]		
Time s _l	oan of v	/ariable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST + WEST				EAST an	d WEST		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.2.2.7)	ziel13			reduction	n in envir	onmental	pollution	ı								.982 to 1990 nd West since 1991	annual irregular
Wordin	ng of qu	estion													Last an	id West sinee 1331	n egala.
Process i	1990 of innova innovatio innovation arily aspire	ns on activiti	ies impler	mented in	ı 19WW*			reduction	n in envir	onmental	pollutior	1		[2]***		Further information *"19WW/20WW" denotes the year under **[4] 1995 - 2008 We get this characteristic in case the partic	
Process i With the we aspire	of innova innovatio innovatio e: the followin	ns on activiti		mented in	ı 1991			reduction	n in envir		little imp importar very imp	ortant nt		[1] [2] [3]		ticked off a goal of innovation, but did not importance for the company (e.g. importa ***[2] 1982-1990 "important" means primarily aspired	
Process i With the in 19WW	of innova innovatio innovatio /20WW* v	ns on activiti we prima	rily aspire					reductio	n in envir	onmental no impor little imp importar very imp	rtance portant nt	1		[0] [1] [2] [3]			
Time s	pan of v	/ariable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST									EAST + WEST				EAST an				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST an	d WEST																

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2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029

3.2.2.8) ziel15 reduction in product development costs East and West 1991 once

Wording of question

No.

No.

Name

3.2.2.10) ziel17

Name

Label

Label

improvement in product quality

1991 II. Goals Process i With the we aspire	i nnovatio innovatio e:	ns on activiti		mented ir	າ 1991				reductio	·	uct develo little imp importar very imp	ortant it		[1] [2] [3]	
Time s	pan of v	/ariable	è												
1982	1983	1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013

Survey period

Survey period

East and West 1991

Survey frequency

Survey frequency

once

3.2.2.9)	ziel16			reductio	n of turna	around tin	nes								East ar	nd West 1991	once
Wordin	ng of qu	uestion															
1991 II. Goals Process i With the we aspire	innovatio innovatio e:	o ns on activiti		mented ir	າ 1991					on of tur	uction cos naround t little imp importar very imp	times oortant nt		[1] [2] [3]		Further information	
Time s	pan of v	/ariable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST + WEST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

Wordin	ng of qu	estion													
1991															
II. Goals															
Process i			:		1001				improver	ment in p	roduct qu	iality			
With the we aspire		on activiti	es impier	mented in	1 1991						little imp	ortant		[1]	
	the followi	ng classifica	ntion:								importar very imp	nt		[2] [3]	
Time s _l															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
									EAST + WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013

3.3 Innovation expenditures

3.3.1 For product innovations Label Survey period Survey frequency Name No. 3.3.1.1) awpd East and West since 1992 annual share of product innovations in total innovation expenditure

Wording of question

No.

No.

Name

Name

Label

Label

1992 to 2	2012															Further information
	ation exp	enditures	s in year 1	19WW/20)WW*											*"19WW/20WW" denotes the year under review
he shar	e of expe	nditures f	or produ	ct innovat	tions in o	ur total in	novation	expendit	ure was							
estimates	are sufficie	nt; sum = 1	00%)								%					
											. 70					
Γime si	pan of v	/ariahle	1													
illie 5																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
										FAST an	d WEST					
										LAST UT	W 10151					
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
AST an	nd WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
	2020	2020	2027	2020	2013	2020	2021		2020		2020	2020	2027	2020	2023	
AST VEST																

3.3.1.2) Wordin	awpda			share of expendit		innovatio	ns (retain	ing prod	uction tec	hnology)	in total ir	nnovation			East ar	1982 to 1990 nd West 1991	annual once
1982 to 1				40.404												Further information	
	innovation e of produsting the are sufficients	ons uct innova e existing nt = 100%)	ations in o				iture				_%					*"19WW" denotes the year under review	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST 1998	1999	2000	2001	2002	2003	2004	2005	2006	EAST + WEST 2007	2008	2009	2010	2011	2012	2013		

Survey period

Survey period

Survey frequency

Survey frequency

3.3.1.3)	awpdb			share of expendit		nnovatio	ns (alterin	ng produc	tion tech	nology) ir	total inn	ovation				.982 to 1990 nd West 1991	annual once
Vordir	ng of qu	estion		·													
982 to 1																Further information	
roduct i	ation exp innovatio e of produ	ns			nnovation	n evnendi	turo									*"19WW" denotes the year under review	
hile alte	ering the p	production	on techno			n expendi	ture										
stimates	are sufficier	nt = 100%)									%						
ime sı	oan of v	ariable	9														
				1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1982	oan of w 1983	rariable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
				1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997		
1982				1986	1987	1988	1989		EAST +	1992	1993	1994	1995 2011	1996	1997		
1982 VEST	1983	1984	1985						EAST + WEST								

3.3.2.1) awpz East and West since 1992 annual share of process innovations in total innovation expenditure Wording of question 1992 to 2012 Further information II. Innovation expenditures in year 19WW/20WW* *"19WW/20WW" denotes the year under review The share of expenditures for process innovations in our total innovation expenditure was (estimates are sufficient = 100%) % Time span of variable **EAST and WEST EAST and WEST EAST** WEST Label No. Name Survey period Survey frequency 3.3.2.2) awpza West 1982 to 1990 share of expendit. for process innovations with same technology annual East and West 1991 once Wording of question 1982 to 1991 **Further information** III. Innovation expenditures in year 19WW* **Process innovations** *"19WW" denotes the year under review The share of expenditures for process innovations in our total innovation expenditures while retaining the existing production technology was (estimates are sufficient = 100%) Time span of variable WEST EAST + Label Survey frequency No. Name Survey period 3.3.2.3) awpzb West 1982 to 1990 share of innov. expenditures in: process innov. administration annual East and West 1991 once Wording of question 1982 to 1991 Further information III. Innovation expenditures in year 19WW* *"19WW" denotes the year under review **Process innovations** The share of expenditures for process innovations in our total innovation expenditure was in administration (estimates are sufficient = 100%) Time span of variable WEST EAST + WEST

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No.

Name

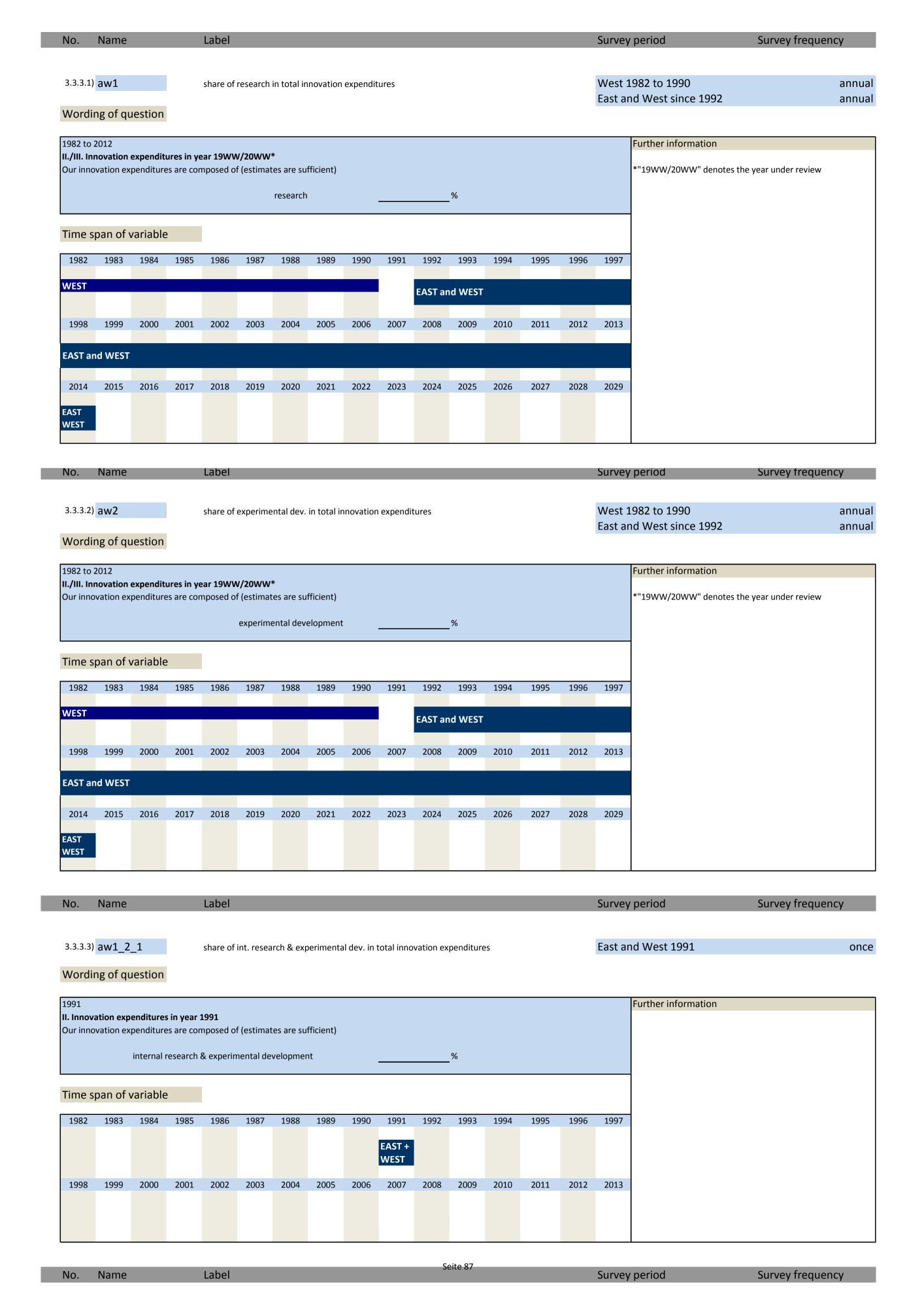
Label

Survey frequency

Survey period

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

3.3.3 Composition of innovation expenditures



Survey period

Survey frequency

Wording of question

Label

Name

No.

1991															
II. Innova	ation exp	enditures	in year 1	1991											
Our inno	vation ex	penditure	s are con	nposed of	f (estimat	es are su	fficient)								
				0							0/				
		externai	researcn	& experir	nentai de	velopmei	nt				<u></u> %				
Time s _l	pan of v	/ariable													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
									EAST +						
									WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013

No.	Name			Label											Survey	period	Survey frequen	су
2 2 2 5\	2								10.						\A/+ 1	1000 +- 1000		
3.3.3.5)	aw3			share of	construct	ion in tot	al innova	tion expe	nditures							1988 to 1990		annual
															East ar	nd West since 1991		annual
Wordin	ng of qu	estion																
1988 to 2																Further information		
	novation (-	-															
Our inno	vation exp	penditure	es are con	nposed o	f (estimat	es are su	fficient)									*"19WW/20WW" denotes the	year under review	
											.,							
					construc	tion					.%							
Time	pan of v	zriahle	.															
111116 3	pan or v	/ai iabic																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
						WEST			FAST an	d WEST								
									LAST di	.a 1123.								
1000	1000											2010			2212			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
EAST an	nd WEST																	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			
EAST																		
WEST																		

3.3.3.6) Wordin	aw4	ıestion		share of	product c	lesign in t	otal inno	vation ex _l	penditure	<u>e</u> s						.988 to 1990 nd West since 1991	annual annual
1988 to 2 II./III. Inr Our inno	novation	-	-	nposed of		es are suf	fficient)				%					Further information *"19WW/20WW" denotes the year under review	
Time s	pan of v	/ariable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST				nd WEST							
1998 EAST an	1999 nd WEST	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Wording of question

1982 to 1	L987															Further information
III. Innov	ation exp	oenditure	s in year	19WW*												
Our innov	vation ex	penditure	es are cor	mposed o	f (estimat	es are su	fficient)									*"19WW" denotes the year under review
					construc	tion, Desi	gn				%					
Time sp	oan of v	variable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST																
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

No.	Name			Label											Survey	<i>r</i> period Surve	y frequency
3.3.3.8)	aw5			share of	patents, l	icenses, r	egistered	designs i	in total in	novation	expendit	ures			West 1	1982 to 1990	annual
															East ar	nd West since 1991	annual
Wordi	ng of qu	uestion															
																I- 11	
1982 to 2	2012 novation	ovnondit.	uros in va	10\A/\A	. /20\A/\A/:	k										Further information	
	vation ex	-	_				fficient)									*"19WW/20WW" denotes the year und	ler review
					,		,										
				Patents,	licenses,	registere	d designs				_%						
Time s	pan of v	/ariable	<u> </u>														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST									FAST an	nd WEST							
									באסומו	IN WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
1330	1333	2000	2001	2002	2003	2001	2003	2000	2007	2000	2005	2010	2011	2012	2013		
EAST ar	nd WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST WEST																	
-VE51																	

No.	Name			Label											Survey	period Su	urvey frequenc	У
3.3.3.9)	aw6			share of	investme	nt expen	ditures fo	r product	ion prepa	ration in	total inno	vation ex	penditure		West 1	1982 to 1990		annual
															East ar	nd West since 1991		annual
Wordi	ng of qu	estion																
1982 to 3	2004															Further information		
	novation e	expendit	ures in ye	ar 19WV	v/20WW	*												
Our inno	vation exp	penditure	es are con	nposed o	f (estimat	tes are su	fficient)									*"19WW/20WW" denotes the year	r under review	
		nroductio	on nrenar	ration for	nroduct i	innovatio	าร											
		production	on prepar			enditures					%							
2005 to 3		!!	- :	2014/14/#														
	vation exp				f (estimat	es are su	fficient)											
	vacion exp	Jerraneare	25 41 6 601	iiposea o	r (estima	ies are sa	merency											
					or produc	tion prep	aration											
		for produ	uct innova	ations							%							
Time s	pan of v	ariable																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
MECT																		
WEST									EAST ar	id WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
EAST ar	nd WEST																	
											eite 89							
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	l		



No.

Name

Label

Survey period

Survey frequency

Wording of question

1982 to 2	2004															Further information
II./III. Inr	novation	expendit	ures in ye	ar 19WV	V/20WW	*										
Our inno	vation ex	penditure	es are cor	nposed o	f (estimat	tes are su	fficient)									*"19WW/20WW" denotes the year under review
		producti	on propa	rations fo	r product	innovatio	nc.									
		production preparations for product innovations - other expenditures														
		production preparations for product innovations - other expenditures														
Time s	pan of v	/ariable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST ar	nd WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.3.3.11) Wordin		uestion		share of	distributi	on prepai	ration in t	otal inno	vation exp	oenditure	s					1982 to 1990 nd West since 1991	annual annual
	novation	-	-	ear 19WW mposed of distributi	f (estimat	es are su	fficient)				%					Further information *"19WW/20WW" denotes the year under review	
Time s	pan of N	variable 1984	1985	1986	1987	1988	1989	1997									
WEST 1998	1999	2000	2001	2002	2003	2004	2005	2006	EAST an 2007	d WEST	2009	2010	2011	2012	2013		
EAST an	nd WEST																
EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

No.	Name			Label											Survey	period	Survey frequency	/
3.3.3.12)	aw9			share of	process i	nnovatior	ns in prod	uction in	total inno	vation ex	kpenditur	e			West 1	1982 to 1990		annual
															East ar	nd West 1991 to 2004	i	annual
Wordi	ng of qu	uestion																
Our inno	novation ex	penditure process	es are con		f (estimat	tes are su	fficient)				_%					Further information *"19WW/20WW" denotes the since 2005 the variable is comb to aw9_10		
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
WEST									EAST an	d WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
EAST ar	nd WEST									S	eite 91							

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

No.

Name

share of process innovations in administration in toatal innovation expenditure (incl. rationalisation)

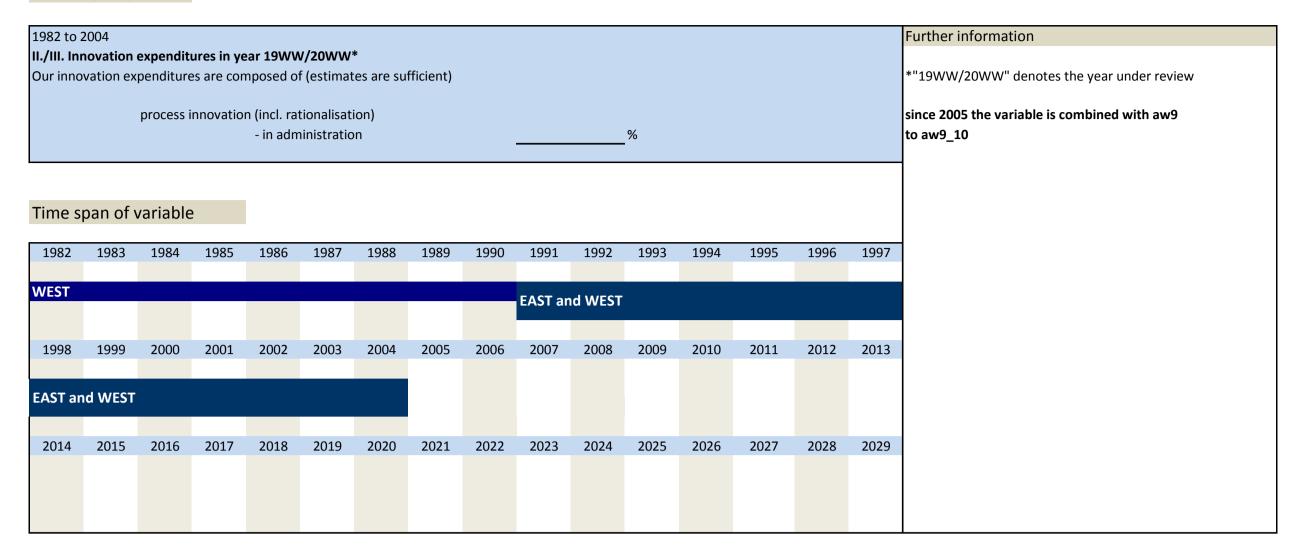
West 1982 to 1990 East and West 1991 to 2004

Survey period

annual annual

Survey frequency

Wording of question



3.3.3.14) Wordin				share of	process ir	nnovation	ns in prodi	uction & a	administr	ation in to	otal innov	ation exp	enditures		East ar	nd West since 2005	annual
ab 2005																Further information	
II./III. Inn						es are su	fficient)									*"19WW" denotes the year under review	
				n (incl. rat administ		on)					<u></u> %					* before 2005 the variable was inquired separately aw9 and aw10	
Time sp	oan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1000	4000						2007	2006			2000				2010		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
							EAST an	d WEST									
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.3.4 Total innovation expenditures

Label

	Name			Label											Survey	period Surve	ey frequency
3.3.4.1)	awb1			total inno	ovation ex	kpenditur	es with re	egard to p	oroduct lir	ne						982 to 1990 Id West since 1991	annu annu
Wordi	ng of qu	estion													Last ai	d West since 1991	amia
	1988 weighting			ted for (a	pproxima	itely)					(1000 DM)					Further information *"19WW/20WW" denotes the year und	der review
	2012 novation (V/20WW*		vation ex _l	oentiture	s account			**Currency see variable 1.8) waehr									
Time s	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993						
											1995	1994	1995	1996	1997		
WEST									EAST an	d WEST	1995	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	EAST an 2007		2009	1994	1995 2011	1996	2013		
1998	1999 nd WEST		2001	2002	2003	2004	2005			d WEST							
			2001	2002	2003	2004	2005			d WEST							

			ı														
3.3.4.2)	awb2			share of	total inno	vation ex	kpenditure	es in tota	l revenue							.989 to 1990	annual
															East ar	nd West since 1991	annual
Wordi	ng of qu	estion															
1989 to																Further information	
				ear 19WW													
In 19WV	V/20WW ³	our inno	vation ex	pentiture	s account	ted for		*"19WW/20WW" denotes the year under review									
				with rega	ard to abo	ve ment											
							·										
	C			ı													
Time s	pan of v	/ariable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
							WEST		EAST ar	d WEST							
									LAST UI	u W231							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST ar	nd WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
FACT																	
EAST WEST																	
WLST																	

No.	Name	Label	Survey period	Survey frequency

No.

Name

Label

West 1989 to 1990 East and West since 1991

Survey period

annual annual

Survey frequency

Wording of question

1989 to 2 II./III. Inn In 19WW In case yo	novation (//20WW*	our inno	vation ex mpasses	pentiture	s account roduct lin	ted for es:			in 1000 C	OM / Euro	**					*"19WW/20WW" denotes the year under review **Currency see variable 1.8) waehr
Time sp																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
							WEST		EAST an	d WEST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014 EAST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
WEST																

3.3.4.4)	awb4			share of	innovatio	n expend	litures in 1	otal reve	nue of th	e whole o	company				West 1	1982 to 1990	annual
															East ar	nd West since 1991	annual
Wordi	ng of qu	uestion															
1982 to :	1988															Further information	
Only for		g purpos	es													Turtier mornation	
_				several p	roduct lin	es:, pleas	e answer	following	g question	ո։						*"19WW/20WW" denotes the year under review	
				ditures in	total reve	enue of th	ne whole o	company	(without	sales tax)							
(sum of a	all plants)	was in 19	9WW*														
								ca.			_%						
1989 to 2	2012																
				ear 19WV													
				kpentiture					in % of re	avenue.							
iii case y	our comp	any encc	лпраѕѕеѕ	several p	roduct III	es.			III 70 OI T	evenue							
				for the e	ntire com	pany											
Time s	pan of v	variable	9														
	-																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST									FACT	JAMECT							
									EAST ar	id WEST							
4000	1000	2000	2004	2002	2002	2004	2005	2006	2007	2000	2000	2040	2011	2042	2042		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST ar	d WEST																
LAST at	IG WLST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
2014	2013	2010	2017	2010	2019	2020	2021	2022	2023	2024	2023	2020	2021	2020	2023		
EAST																	
WEST																	

3.4 Impulse for innovation

Survey frequency No. Name Label Survey period 3.4.1) imp1 West 1982 to 1990 irregular impulse for innovation by R&D (internal) East and West since 1991 irregular Wording of question 1982 to 1990 Further information IV. Impulses for innovations The fundamental impulses for the innovations implemented in 19WW* primarily arise from: *"19WW/20WW" denotes the year under review internal [2]**** research and development ** 1991 [1] = not important 1991 to 2004 [2] = important IV. Impulses for innovations [3] = very important The impulses for innovations implemented in 19WW/20WW arise from: internal *** 1995 to 2008 ** / *** research and development [0] / [] = no importance or no specification [1] = less important Ab 2005 [2] = important V. Impulses for innovations [3] = very important Impulses for innovations arise from: [4] = This box was only ticked off in the questionnaire internal research and development **** fundamental impulses = important [2] Time span of variable 1984 1986 1987 1990 1991 1992 1993 1994 1995 1996 1997 1982 1983 1985 1988 1989 WEST EAST + **WEST** 2004 2008 2010 1998 1999 2000 2001 2002 2003 2005 2006 2007 2009 2011 2012 2013 **EAST and WEST** 2015 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2014 2016 **EAST** WEST Name Label Survey period Survey frequency No. 3.4.2) imp2 West 1982 to 1990 impulse for innovation by production & materials logistics (internal) irregular East and West since 1991 irregular Wording of question Further information 1982 to 1990 IV. Impulses for innovations *"19WW/20WW" denotes the year under review The fundamental impulses for the innovations implemented in 19WW* primarily arise from: internal [2]**** ** 1991 production & materials logistics [1] = not important 1991 to 2004 [2] = important IV. Impulses for innovations [3] = very important The impulses for innovations implemented in 19WW/20WW arise from: *** 1995 to 2008 internal production & materials logistics **/*** [0] / [] = no importance or no specification [1] = less important Ab 2005 [2] = important V. Impulses for innovations [3] = very important Impulses for innovations arise from: [4] = This box was only ticked off in the questionnaire internal production & materials logistics **** fundamental impulses = important [2] Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 **WEST** EAST+ WEST 1999 2000 2002 2003 2004 2005 2008 2009 2010 2011 2012 1998 2001 2006 2007 2013 **EAST and WEST** 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 **EAST** WEST Label Survey period Survey frequency No. Name

Survey period

irregular irregular

Survey frequency

Wording of question

Name

No.

Label

1982 to 1	1990															Further information
IV. Impu	lses for ir	novation	ıs													
The fund	amental i	mpulses	for the in	novations	impleme	ented in 1	9WW* p	rimarily a	rise from:	:						*"19WW/20WW" denotes the year under review
internal										,		1				
					marketin	g & produ	uct suppo	ort				[2]****				** 1991
																[1] = not important
1991 to 2																[2] = important
IV. Impu																[3] = very important
The impu	ulses for i	nnovation	ns implem	ented in	19WW/2	0WW aris	e from:									
internal																*** 1995 to 2008
					marketin	g & produ	uct suppo	ort				** / ***				[0] / [] = no importance or no specification
AL 2005																[1] = less important
Ab 2005	f :															[2] = important
V. Impul																[3] = very important
Impulses	iorinnov	ations ar	ise from:													[4] = This box was only ticked off in the questionnaire
internal					marketin	a & produ	uct cuppe	vrt				***				
					Шагкеціі	g & produ	uct suppc) i t								**** fundamental impulses = important [2]
																randamentarimpuises – important [2]
Time s	nan of v	/ariable)													
111116 5	pan or v	ariabic														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1000					
											1993	1994	1995	1996	1997	
WEST										1332	1993	1994	1995	1996	1997	
									EAST +	1332	1993	1994	1995	1996	1997	
									EAST + WEST	1332	1993	1994	1995	1996	1997	
									EAST + WEST	1332	1993	1994	1995	1996	1997	
1998	1999	2000	2001	2002	2003	2004	2005		WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	_	2008	2009	1994	1995	1996	1997	
		2000	2001	2002	2003	2004	2005		WEST							
1998 EAST an		2000	2001	2002	2003	2004	2005		WEST							
		2000	2001	2002	2003	2004	2005		WEST							
		2000	2001	2002	2003	2004	2005		WEST							
EAST an	d WEST							2006	WEST 2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST							2006	WEST 2007	2008	2009	2010	2011	2012	2013	
EAST an 2014	d WEST							2006	WEST 2007	2008	2009	2010	2011	2012	2013	

															Jante	period barrey meque	- 1
3.4.4) j	mp4			impulse	for innova	ation by c	ompany s	suggestio	n system	(internal)					West 1	1982 to 1990	irregulaı
	•					,		00	,	,						nd West 1991 to 2004	irregular
Wording	a of au	oction													Last ai	110 West 1991 to 2004	irregulai
vvorum	g or qu	estion															
1982 to 19	990															Further information	
IV. Impuls		novation	าร														
The funda				novation	s impleme	ented in 1	.9WW* pı	rimarily a	rise from:							*"19WW/20WW" denotes the year under review	
internal		•			•		·	,								,	
					company	/ suggesti	on systen	n				[2]****				** 1991	
										'						[1] = not important	
1991 to 20	004															[2] = important	
V. Impulse	es for in	novation	s													[3] = very important	
The impuls	ses for ir	nnovatio	ns implen	nented in	19WW/2	0WW aris	se from:										
internal																*** 1995 to 2004	
					company	/ suggesti	on systen	n				**/***				[0] / [] = no importance or no specification	
																[1] = less important	
																[2] = important	
				l												[3] = very important	
Time sp	an of v	ariable/	5													[4] = This box was only ticked off in the questionna	aire
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
																**** fundamental impulses = important [2]	
WEST									EAST +								
									WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST and	WEST																
LAST dire																	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Survey period

irregular irregular

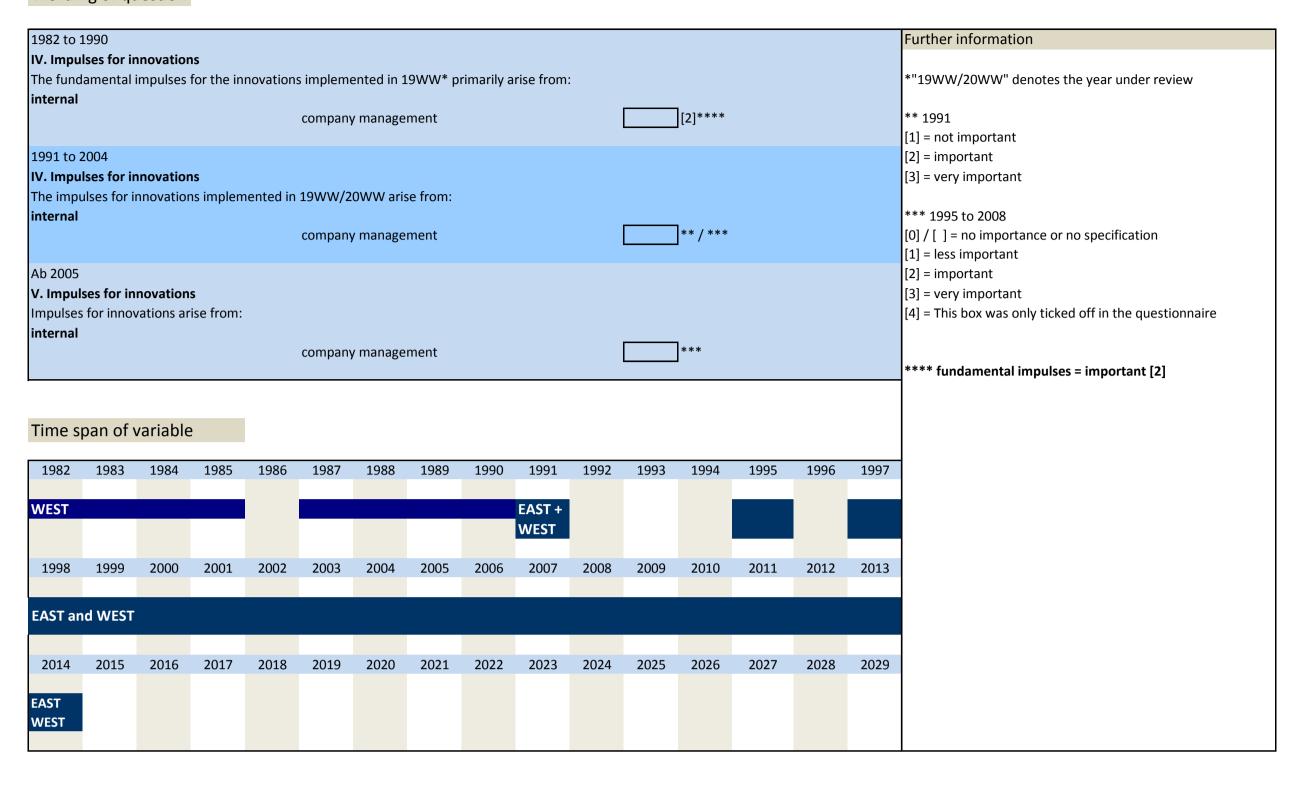
Survey frequency

Wording of question

No.

Name

Label



3.4.6) Wordin	imp6 ng of qu	ıestion		impulse [·]	for innova	ation by jo	oint comp	any (exte	ernal)							1982 to 1990 nd West since 1991	irregular irregular
external 1991 to 2 IV. Impu	lses for ir amental i 2004 lses for ir	impulses inovation	for the in	nented in	joint com	npany OWW aris		rimarily a	rise from:			[2]****				Further information *"19WW/20WW" denotes the year under revie ** 1991 [1] = not important [2] = important [3] = very important *** 1995 to 2008 [0] / [] = no importance or no specification	?W
Ab 2005 V. Impulses external Time s	for innov	ations ar	rise from:		joint com							***				[1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questio **** fundamental impulses = important [2]	nnaire
1982 WEST	1983	1984	1985	1986	1987	1988	1989		1991 EAST + WEST 2007	1992	1993	1994	1995	1996	1997		
EAST and 2014 EAST WEST	d WEST 2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

impulse for innovation by competitors (external)

Label

No.

Name

West 1982 to 1990 East and West since 1991

Survey period

irregular irregular

Survey frequency

Wording of question

1982 to 3	1990															Further information
IV. Impu	lses for in	novation	าร													
The fund	amental i	mpulses	for the in	novations	s impleme	ented in 1	9WW* p	rimarily a	rise from	:						*"19WW/20WW" denotes the year under review
external												_				
					competit	ors						[2]****				** 1991
																[1] = not important
1991 to 2	2004															[2] = important
IV. Impu	lses for in	novation	าร													[3] = very important
The impu	ulses for in	nnovation	ns implem	nented in	19WW/2	0WW aris	e from:									
external																*** 1995 to 2008
					competit	ors						**/***				[0] / [] = no importance or no specification
										'						[1] = less important
Ab 2005																[2] = important
V. Impul	ses for in	novation	S													[3] = very important
Impulses	for innov	ations ar	ise from:													[4] = This box was only ticked off in the questionnaire
external																
					competit	ors						***				
																**** fundamental impulses = important [2]
Time s	pan of v	/ariable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST +							
									WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
EAST an	iu WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST																
WEST																

3.4.8) im		estion		impulse t	for innova	ation by s	uppliers (external)								.982 to 1990 nd West since 1995	irregular irregular
1982 to 1990 IV. Impulses The fundame external	s for in ental ir				s impleme suppliers		9WW* pı	rimarily a	rise from:			[2]***				Further information *"19WW/20WW" denotes the year under review ** 1991 [1] = not important [2] = important	
IV. Impulses The impulses external Ab 2005 V. Impulses Impulses for	s for in	novation	ns implem		19WW/2		e from:					**/***				 [3] = very important *** 1995 to 2008 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnal 	aire
external Time spar	n of v	ariable			suppliers							***				**** fundamental impulses = important [2]	
WEST	983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993		1995 EAST + WEST	1996	1997		
EAST and V	999 WEST	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST WEST																	

Survey period

irregular irregular

Survey frequency

Wording of question

Name

No.

Label

1982 to	1990															Further information
IV. Impu	lses for ir	nnovatio	ns													
		impulses	for the in	novations	s impleme	ented in 1	.9WW* p	rimarily a	rise from:							*"19WW/20WW" denotes the year under review
external												[::1****				** 1001
					custome	rs						[2]****				** 1991 [1] = not important
1991 to	2004															[2] = important
	lses for ir	nnovatio	าร													[3] = very important
				nented in	19WW/2	0WW aris	se from:									
external																*** 1995 to 2008
					custome	rs						**/***				[0] / [] = no importance or no specification
																[1] = less important
Ab 2005																[2] = important
_	ses for in		i s rise from:													[3] = very important[4] = This box was only ticked off in the questionnaire
external		vations ar	ise irom:													[4] = This box was only ticked off in the questionnaire
external					custome	rs						***				
																**** fundamental impulses = important [2]
Time s	pan of v	variable	9													
1002	1002	1004	1005	1000	1007	1000	1000	1000	1001	1002	1002	1004	1005	1000	1007	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST +							
VVLST									WEST							
									WE51							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
FAST ar	nd WEST															
LAST di	ia W231															
	2217		2217													
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST																
WEST																

3.4.10) im	mp10																
				impulse	for innov	ation hy s	necialist li	iterature	(external)	1					West 1	1982 to 1990	irregula
Nording				impuisc	101 11111000	action by 3	pecialise	itterature	(CXCCITIAL)	'							
wording	r														East at	nd West 1991 to 2004	irregula
	g of qu	estion															
1982 to 199	90															Further information	
V. Impulses	es for in	novation	ıs														
The fundam	nental ir	mpulses	for the in	novations	s impleme	ented in 1	.9WW* pr	rimarily a	rise from:							*"19WW/20WW" denotes the year under rev	iew
external										,							
					specialis	t literatur	e					[2]****				** 1991	
																[1] = not important	
1991 to 200																[2] = important	
V. Impulses																[3] = very important	
Γhe impulse	es for in	novation	ns implem	nented in	19WW/2	OWW aris	se from:										
external										ı		** /***				*** 1995 to 2004	
					specialis	t literatur	e					** / ***				[0] / [] = no importance or no specification	
																[1] = less important [2] = important	
																[3] = very important	
Time spai	n of v	zriahle														[4] = This box was only ticked off in the questi	onnaire
Time spai	all Ol V	ariabic	•													[4] - This box was only ticked on in the questi	Officialle
1982 1	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
																**** fundamental impulses = important [2]	
WEST									EAST +								
									WEST							collectively inquired with imp13 in imp10_13	after 2005
1998 1	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST and V	WEST																
2014 2	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
2017 2	2013	2010	2017	2010	2013	2020	2021	2022	2023	2024	2023	2020	2027	2020	2023		

No.	Name	Label	Survey period	Survey frequency

Survey period

irregular irregular

Survey frequency

Wording of question

Name

No.

Label

3.4.11) imp11

1000 1 1000	e about formation
1982 to 1990	Further information
IV. Impulses for innovations	*!!************************************
The fundamental impulses for the innovations implemented in 19WW* primarily arise from:	*"19WW/20WW" denotes the year under review
external	** 1001
sciences [2]****	** 1991
1995 to 2004	[1] = not important
	[2] = important
IV. Impulses for innovations The impulses for innovations implemented in 19WW/20WW arise from:	[3] = very important
external	*** 1995 to 2008
sciences ** / ***	[0] / [] = no importance or no specification
	[1] = less important
Ab 2005	[2] = important
V. Impulses for innovations	[3] = very important
Impulses for innovations arise from:	[4] = This box was only ticked off in the questionnaire
external	()
Universities, research institutes ***	
	**** fundamental impulses = important [2]
Time span of variable	
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	
WEST EAST + EAST +	
WEST WEST	
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	
EAST and WEST	
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029	
EAST CONTRACTOR OF THE CONTRAC	

3.4.12) Wordin	imp12			impulse [·]	for innova	ation by t	echnology	y transfer	centers (external)	1					irregular divided in the second secon
1989 to 3 IV. Impu The fund external 1991 to 3 IV. Impu The impu external	lses for ir lamental 2004 Ises for ir ulses for i	impulses nnovation nnovation	for the in	nented in	technolo	gy transf OWW ari	er centers se from:	5	rise from][2]****]**/***				Further information *"19WW/20WW" denotes the year under review ** 1991 [1] = not important [2] = important [3] = very important *** 1995 to 2004 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
1982 1998 EAST an	1983 1999 ad WEST 2015	2000	1985 2001 2017	1986 2002 2018	1987 2003 2019	2004	1989 WEST 2005		1991 EAST + WEST 2007	1992 2008 2024	1993 2009 2025	2010	1995 2011 2027	1996 2012 2028	2013	**** fundamental impulses = important [2]

West 1982 to 1990 East and West 1991 to 2004 irregular irregular

Wording of question

3.4.13) imp13

1982 to 1	1990															Further information
IV. Impul The fund external				novations	s impleme	ented in 1	9WW* pı	rimarily a	rise from:							*"19WW/20WW" denotes the year under review
external					patent sp	oecificatio	ons					[2]****				** 1991 [1] = not important
1991 to 2	2004															[2] = important
V. Impuls																[3] = very important
The impu	ılses for ir	nnovation	ns implem	nented in	19WW/2	0WW aris	e from:									
external					patent sp	oecificatic	ons					**/***				*** 1995 to 2004 [0] / [] = no importance or no specification [1] = less important
																[2] = important
	•			l												[3] = very important
Time sp	oan of v	ariable				[4] = This box was only ticked off in the questionnaire										
1982	1983	1984	1985	1986	1987											
1302	1303	1304	1303	1300	1307	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	**** fundamental impulses = important [2]
WEST									EAST +							,
									WEST							collectively inquired with imp10 in imp10_13 after 2005
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	d WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

No.	Name			Label											Survey	period Survey f	requency
	imp10_ ng of qu			impulse [·]	for innov.	by specia	alist litera	ture & pa	tent spec	ifications	s (externa	1)			East ar	nd West since 2005	irregular
Impulses external	llses for in s for innov	rations ar	ise from:	:	specialis	t literatur	e & pater	it specific	ations			*				* characteristics in the dataset [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the que	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		before 2005: individual inquiry of specialist literature and patent specifications see imp10 and imp13	ons:
1998	1999	2000	2001	2002	2003	2004	2005 EAST an	2006 d WEST	2007	2008	2009	2010	2011	2012	2013		
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

No.	Name	Label	Survey period	Survey frequency

Survey period

Label

No.

Name

irregular irregular East and West since 1991

Survey frequency

Wording of question

N. Impulses for innovations	1982 to 1																Further information
exhibitions, congresses, etc.	_																
exhibitions, congresses, etc.		amental i	mpulses	for the in	novations	s impleme	ented in 1	.9WW* pı	rimarily a	rise from	:						*"19WW/20WW" denotes the year under review
N. Impulses for innovations implemented in 19WW arise from: exhibitions, congresses, etc.	external					exhibitio	ns, congr	esses, etc	:.				[2]****				
The impulses for the innovations implemented in 19WW* arise from: external exhibitions, congresses, etc. **/*** *** *** *** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** **** ****	1991																[2] = important
exhibitions, congresses, etc. ***/*** **** *******************	_																[3] = very important
Comparison Com		lses for tl	he innova	ations imp	olemente	d in 19W\	W* arise f	from:									
1 elss important 2 important 2 important 2 important 2 important 2 important 3 important 4 imp	external					ovhihitio	ns congr	ossos oto]** / ***				
1995 to 2004						exhibitio	ns, congr	esses, etc	•],				
N. Impulses for innovations The impulses for innovations implemented in 19WW/20WW arise from:	1995 to 2	004															
The impulses for innovations implemented in 19WW/20WW arise from: external exhibitions, congresses, etc. Ab 2005 IV. Impulses for innovations Impulses for innovations arise from: external exhibitions, congresses, etc.			novation	ns													
exhibitions, congresses, etc. Ab 2005 IV. Impulses for innovations arise from: external exhibitions, congresses, etc. **** fundamental impulses = important [2]	_				nented in	19WW/2	0WW aris	se from:									
### fundamental impulses = important [2]	external			·													
Ab 2005 IV. Impulses for innovations arise from: external exhibitions, congresses, etc. Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST + WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST						exhibitio	ns, congr	esses, etc	. .				** / ***				
No. Impulses for innovations arise from: external exhibitions, congresses, etc. **/*** **/***																	**** fundamental impulses = important [2]
Impulses for innovations arise from: external exhibitions, congresses, etc. Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST																	
EAST and WEST exhibitions, congresses, etc. exhibitions, congresses, etc. exhibitions, congresses, etc. **/*** exhibitions, congresses, etc. **/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/** ***/*** ***/*** ***/*** ***/*** ***/** ***/** ***/** ***/** ***/** ***/** ***/*** ***/*** ***/*** ***/*** ***/** ***/*** ***/*** ***/*** ***/*** ***/*** ***/*** ***/** ***/** ***/*** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***/** ***	_																
Time span of variable 1982		for innov	ations ar	ise from:													
Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST	externai					evhihitio	ns congr	accac ata					** / ***				
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST + WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST						exhibitio	ris, corigi	esses, etc	·•] /				
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST + WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST																	
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST + WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST																	
WEST	Time sp	oan of v	ariable	•													
WEST																	
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST																	
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST	WEST																
EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST										WEST							
EAST and WEST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST	4000	1000	2000	2004	2002	2002	2004	2005	2006	2007	2000	2000	2040	2044	2042	2042	
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 EAST																	
EAST	EAST an	d WEST															
EAST																	
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
WEST																	
	WEST																
WEST CONTRACTOR OF THE PROPERTY OF THE PROPERT																	

3.4.16)	imp15			impulse [·]	for innova	ation by le	egislation	(externa	ıl)							1982 to 1990 irregund West 1991 to 2004 irregu
Wordi	ng of qu	uestion													Last a	West 1331 to 2001
_	lses for ir lamental			novations	s impleme		.9WW* p	rimarily a	arise from:			[2]****				Further information *"19WW/20WW" denotes the year under review ** 1991 [1] = not important
1991 to 2 IV. Impu The impu external	Ises for ir ulses for i	nnovatio	ns implen		19WW/2		se from:					**/***				 [2] = important [3] = very important *** 1995 to 2004 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
1982 WEST	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST + WEST	1992	1993	1994	1995	1996	1997	**** fundamental impulses = important [2]
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	nd WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

No. Na	ame	Label	Survey period	Survey frequency
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Survey period

irregular irregular

Survey frequency

Wording of question

Name

No.

Label

1982 to 1	990															Further information
IV. Impul																
The funda	amental i	mpulses	for the in	novations	s impleme	ented in 1	.9WW* p	rimarily a	rise from	:						*"19WW/20WW" denotes the year under review
external					national	DQD cupr	ort prog	ramma				[2]****				** 1991
					пацопаі	R&D supp	ort prog	ramme][2]****				[1] = not important
1991 to 2	004															[2] = important
IV. Impul		novation	ıs													[3] = very important
The impu				ented in	19WW/2	0WW aris	se from:									
external												_				*** 1995 to 2008
					national	R&D supp	oort prog	ramme				**/***				[0] / [] = no importance or no specification
41 2005																[1] = less important
Ab 2005 V. Impuls	aa fau in															[2] = important
Impulses																[3] = very important[4] = This box was only ticked off in the questionnaire
external	ioi iiiiiov	ations ar	130 110111.													[4] - This box was only ticked on in the questionnaire
					national	R&D supp	oort prog	ramme				***				
												1				**** fundamental impulses = important [2]
Time sp	oan of v	/ariable)													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1982	1965	1964	1965	1980	1967	1900	1969	1990	1991	1992	1995	1994	1995	1996	1997	
WEST									EAST+							
									WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST and	d WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
2014	2013	2010	2017	2010	2013	2020	2021	2022	2023	2024	2023	2020	2027	2020	2023	
EAST																
EAST WEST																

3.4.18)	imp17			impulse	for innova	ation by ir	ntermedia	ate produ	ıcers (exte	ernal)					East ar	nd West 1991	once
Wordin	ng of qu	estion															
1991																Further information	
IV. Impul	lses for in	novation	ıs														
The impu	ılses for t	he innova	ations imp	plemente	d in 1991	arise fror	n:									* characteristics in the dataset	
external																[] = no importance or no specification	
					intermed	liate prod	lucers					*				[1] = not important / less important	
																[2] = important	
																[3] = very important	
Time or	oon of v	ariable		ı													
Time sp	Jan Oi V	ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
									EAST +								
									WEST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

No.	Name	Label	Survey period	Survey f	frequency

Survey period

No.

Name

Label

Survey frequency

Wording of question

_	Ises for in ulses for t				d in 1991 producer			ods				*				* characteristics in the dataset [] = no importance or no specification [1] = not important / less important [2] = important
Time s	pan of v	<mark>/ariable</mark>	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[3] = very important
									EAST + WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

3.4.20)	imp19			impulse	for innova	ation by s	pecialist (congress	(external)						East ar	nd West 1991	once
Wordin 1991 IV. Impu The impu external	Ises for in Ilses for t	novation	าร		d in 1991 specialis							*				Further information * characteristics in the dataset [] = no importance or no specification [1] = not important / less important [2] = important [3] = very important	
Time s	pan of N	/ariable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST	2008	2009	2010	2011	2012	2013		

No.	Name			Label											Survey	y period Survey frequency
3.4.21) Wordir	imp20 ng of qu			impulse [·]	for innova	ation by p	ublic rese	earch inst	itutes (ex	ternal)					East ar	nd West 1991 once
1991 IV. Impul The impu external	ulses for t	he innova	ations imp		d in 1991 research			public				*				* characteristics in the dataset [] = no importance or no specification [1] = not important / less important [2] = important [3] = very important
1982	1983	1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

Survey period

Survey frequency

Wording of question

1991 IV. Impu The impu external	ulses for t				d in 1991 research			private				*				* characteristics in the dataset [] = no importance or no specification [1] = not important / less important [2] = important
Time s	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[3] = very important
1302	1983	1304	1983	1980	1987	1900	1989		EAST + WEST	1992	1993	1334	1993	1990	1997	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

No.	Name			Label											Survey	y period Survey frequency
	imp22 ng of qu	estion		impulse	for innova	ation by u	niversitie	s (extern	al)						East ar	nd West 1991 onc
The impu	ulses for in ulses for t	he innova	ations imp	olemente		arise fror universit						*				* characteristics in the dataset [] = no importance or no specification [1] = not important / less important [2] = important [3] = very important
1982	1983	1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

3.4.24)	imp23			impulse 1	for innova	ation by e	xecutive	consulta	nt (externa	al)					East ar	nd West 1991	once
Wordi	ng of qu	uestion															
_	ulses for t	nnovation		plemente	d in 1991	arise fror		ant				*				* characteristics in the dataset [] = no importance or no specification [1] = not important / less important [2] = important	
Time s																[3] = very important	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST + WEST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

3.5 Obstacles to innovations

Name

No.

Label

Survey frequency Survey period Label No. Name 3.5.1) hemm1 West 1982 to 1990 annual obstacles to innovations due to: lacking equity capital East and West 1991 once East and West since 1993 annual Wording of question 1982 to 2012 Further information IV./V. Obstacles to innovations Currently our innovations are primarily hindered due to: **Economic factors*** **/***/*** lack of equity capital *addition 1993 to 2004 ** 1982 to 1990; and 1993-94: Time span of variable [2] = ticked off, no graded importance *** 1991 1983 1984 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1982 1985 1997 [1] = not important [2] = important WEST EAST + [3] = very important WEST **** 1995 to 2012 [0] / [] = no importance or no specification 2012 1999 2003 2004 2005 2011 [1] = less important 1998 2000 2001 2002 2006 2007 2008 2009 2010 2013 [2] = important [3] = very important **EAST and WEST** [4] = This box was only ticked off in the questionnaire 2015 2016 2017 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2014 2018 **EAST** WEST Label Survey period Survey frequency Name No. 3.5.2) hemm2 West 1982 to 1990 obstacles to innovations due to: lacking external finance annual Fact and West 1991

Wording of question	annual
Wording of question	
1982 to 2012 Further information	
IV./V. Obstacles to innovations	
Currently our innovations are primarily hindered due to: Economic factors*	
lack of external financing **/*** *** *** *** **** ********** ******	
** 1982 to 1990; and 1993-94:	
Time span of variable [2] = ticked off, no graded importance *** 1991	
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 [1] = not important	
[2] = important	
WEST EAST + [3] = very important	
**** 1995 to 2012	_
[0] / [] = no importance or no specification 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 [1] = less important	1
[2] = important	
EAST and WEST	
[4] = This box was only ticked off in the qu	estionnaire
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029	
2017 2010 2017 2010 2017 2020 2021 2022 2023 2024 2023 2020 2027 2020 2027	
EAST CONTRACTOR OF THE CONTRAC	
WEST CONTRACTOR OF THE CONTRAC	

No. Name	Label	Survey period	Survey frequency
3.5.3) hemm3	obstacles to innovations due to: too high innovation expenditures	West 1982 to 1990	annual
		East and West 1991	once
		East and West since 1993	annual
Wording of question			

1982 to 2	2012															Further information
IV./V. Ob	stacles t	o innovat	tions													
Currently	our inno	vations a	re primar	ily hinder	ed due to) :										
Economi	c factors	*														
																*addition 1993 to 2004
insufficie	nt return	of produ	ct innova	tions, bec	ause											
												•				
					innovation	on expens	es too hig	gh				**/***/	****			** 1982 to 1990; and 1993-94:
																[2] = ticked off, no graded importance
																*** 1991
																[1] = not important
Time sp	oan of v	/ariable	<u> </u>													[2] = important
																[3] = very important
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	**** 1995 to 2012
										Sa	eite 107					[0] / [] = no importance or no specification
WEST									EAST +	36	107					[1] = less important

									WEST							[2] = important
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		[3] = very important [4] = This box was only ticked off in the questionnaire
1330	1333	2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	[4] - This box was only ticked on in the questionnaire
EAST on	4 WEST															



No.	Name			Label											Survey	y period Survey frequency
3.5.4)	hemm	4		obstacle	s to innov	rations du	ie to: too	long payl	oack perio	od					East a	1982 to 1990 annual nd West 1991 once annual
Wordi	ng of qu	estion													Last al	nd West 1993 to 2004 annual
		vations a	re primai			o:										Further information
					Pay-off-p	period too	long					*/**				* 1982 to 1990; and 1993-94: [2] = ticked off, no graded importance
1993 to 2 V. Obsta Currently Economic	y our inno ic factors	vations a	re primai			o:										** 1991 [1] = not important [2] = important [3] = very important *** 1995 to 2004
					payoff ti	me too lo	ng					*/***				[0] / [] = no importance or no specification[1] = less important[2] = important
Time s	pan of v	/ariable	<u>)</u>													[3] = very important [4] = This box was only ticked off in the questionnaire
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST + WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST ar	nd WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.5.5)	hemm!	5		obstacles	s to innov	ations du	ie to: easy	copying	of new p	roduct					East a	nd West 1993 to 2004 annual
Wordin	ng of qu	estion														
1993 to 2 V. Obstac Currently Economic	cles to in	vations a		ily hinder	ed due to	o:										Further information
insufficie	nt return	of produ	ct innova			ying of ne	ew produc	ct]*/**				* 1993 to 1994: [2] = ticked off, no graded importance ** 1995 to 2004
Time sp	oan of v	/ariable														[0] / [] = no importance or no specification [1] = less important [2] = important
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993 EAST ar	1994 nd WEST	1995	1996	1997	[3] = very important [4] = This box was only ticked off in the questionnaire

Label

No.

Name

Survey frequency

Survey period

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
EAST an	id WEST														
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2014	2013	2010	2017	2010	2019	2020	2021	2022	2023	2024	2023	2020	2027	2028	2023

No.	Name			Label											Survey	/ period	Survey frequency
	hemm			obstacles	s to innov	ations du	e to: unce	ertain ma	irket deve	elopment						1982 to 1990 nd West 1991	annua once
Currentl	1991 I cles to in Iy our inno Int return	vations a	re primar	tions, bed	cause		developm	nent				*/**				Further information * 1982 to 1990:	
Time s	pan of v	variable														[2] = ticked off, no graded impos ** 1991: [1] = not important	ortance
1982 WEST	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST +	1992	1993	1994	1995	1996	1997	[2] = important [3] = very important	
1998	1000	2000	2004	2002	2002	2004	2005		WEST	2000	2000	2010	2011	2012	2012		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

3.5.7)	hemm	6		obstacle	s to innov	ations du	e to: low	innovati	on willing	ness of er	mployees					1982 to 1990 annual once
																nd West since 1993 annual
Wordin	ng of qu	uestion														
1982 to 2																Further information
_		o innova		rily bindo	rad dua t											
	on poten		не рина	rily hinder	rea aue to).										
	-	ation willi	ngness													
												•				*addition 1993 to 2004
					of emplo	yees						**/***/*	***			
																** 1982 to 1990; and 1993-94:
																[2] = ticked off, no graded importance
Time s	pan of v	variable	5													*** 1991
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[1] = not important [2] = important
2002							2000									[3] = very important
WEST									EAST +							**** 1995 to 2012
									WEST							[0] / [] = no importance or no specification
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		[1] = less important[2] = important
1550	1333	2000	2001	2002	2003	2001	2003	2000	2007	2000	2003	2010	2011	2012		[3] = very important
EAST an	d MEST															[4] = This box was only ticked off in the questionnaire
EAST an	IU WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
2014	2013	2010	2017	2018	2019	2020	2021	2022	2023	2024	2023	2020	2027	2028	2029	
EAST																
WEST																

No. Name	Label	Survey period	Survey frequency
3.5.8) hemm7	obstacles to innovations due to: low innovation willingness of the works council	West 1982 to 1990	annual
		East and West 1991	once
		East and West 1993 to 2004	annual
Wording of question			
1982 to 2004		Further information	
IV./V. Obstacles to innovations			

IV./V. Obstacles to innovations

Currently our innovations are primarily hindered due to:

innovation potential*

insufficient innovation willingness

of the works council

Sete 110

/*

**addition 1993 to 2004

																** 1982 to 1990; and 1993-94: [2] = ticked off, no graded importance
Time s	pan of v	/ariable	<u> </u>													*** 1991
																[1] = not important
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[2] = important
																[3] = very important
WEST									EAST +							**** 1995 to 2004
									WEST							[0] / [] = no importance or no specification
																[1] = less important
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[2] = important
																[3] = very important
EAST an	nd WEST															[4] = This box was only ticked off in the questionnaire
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

No.	Name	Label		Survey po	eriod	Survey frequency
3.5	.9) hemm8	obstacles to innovations due to: low innova	ation willingness of the management	West 198	32 to 1990	annual
				East and	West 1991	once
				East and	West since 1993	annual
Wor	ding of question					
1982 t	to 2012			Fu	urther information	
IV./V.	Obstacles to innovation	ons				
Curre	ntly our innovations are	e primarily hindered due to:				
	ation potential*					
insuffi	cient innovation willing	ness				
		of the management	**/***	*a	ddition 1993 to 2004	
				**	1982 to 1990; and 1993-94:	
				[2]] = ticked off, no graded impo	rtance

Time s	pan of v	/ariable	<u> </u>													*** 1991
																[1] = not important
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[2] = important
																[3] = very important
WEST									EAST +							**** 1995 to 2012
									WEST							[0] / [] = no importance or no specification
																[1] = less important
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[2] = important
																[3] = very important
EAST an	d WEST															[4] = This box was only ticked off in the questionnaire
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST																
WEST																

No.	Name			Label											Survey	period Survey frequency
3.5.10) Wordin	hemm			obstacle:	s to innov	rations du	e to: orga	anisationa	al problen	ns					East ar	1982 to 1990 annua nd West 1991 once nd West since 1993 annua
1982 to 2 IV./V. Ok Currently innovation	bstacles t y our inno	ovations a				o: tional pro	blems					**/***/ *	***			*addition 1993 to 2004 ** 1982 to 1990; and 1993-94: [2] = ticked off, no graded importance
Time s ₁	pan of v	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	*** 1991 [1] = not important [2] = important
WEST 1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST	2008	2009	2010	2011	2012	2013	 [3] = very important **** 1995 to 2012 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important
EAST an																[4] = This box was only ticked off in the questionnaire
EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.5.11 hemm10 Wording of question	obstacles to innovations due to: lack of qualifie	d R&D staff	West 1982 to 1990 East and West 1991 East and West since 1993	annual once annual
1982 to 2004 V. Obstacles to innovations			Further information	
Currently our innovations ar innovation potential*				
problems with staff due to d	ifficulties in finding qualified employees on the labor ma	**/***********************************	*addition 1993 to 2004	
	R&D		** 1982 to 1990; and 1993-94:	
2005 to 2012 IV. Obstacles to innovations			[2] = ticked off, no graded importance *** 1991	
Currently our innovations ar lack of qualified staff	e primarily hindered due to:		[1] = not important [2] = important	
	in R&D	***	[3] = very important **** 1995 to 2012	

Label

No.

Name

Survey frequency

Survey period

																[0] / [] = no importance or no specification
																[1] = less important
																[2] = important
Time	span of	variable	9													[3] = very important
																[4] = This box was only ticked off in the questionnaire
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
WEST									EAST +							
									WEST							
1000	1000	2000	2004	2002	2002	2004	2005	2006	2007	2000	2000	2010	2011	2012	2012	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST a	and WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST																
WEST																

No.	Name			Label											Survey	period Surv	ey frequency
3.5.12)	hemm	11	l	obstacles	s to innov	rations du	ıe to: lack	of qualif	ied produ	ection stat	ff				West 1	1982 to 1990	annual
0.0,	TICHIIII.	**		obstacie.	3 (0 111110)	ations ac	ic to. lack	or quaiii	ica produ	iction star	''					nd West 1991	once
																nd West since 1993	annual
Wordi	ng of qu	uestion															
1982 to	2004															Further information	
	cles to in																
	y our inno		ire primar	ily hinder	ed due to):											
	on poten s with sta		difficultie	s in findir	ng qualifie	d employ	ees on th	ne labor r	narket foi	r							
problem	o wien sea	n ade to	anneance	5 III III GII	.B quanne	.u cmpio,		10 10001 1	narket ro							*addition 1993 to 2004	
					production	on						**/***/	***				
2005 to	2012															** 1982 to 1990; and 1993-94: [2] = ticked off, no graded importance	
	acles to ir	novation	าร														
Currentl	y our inno	vations a	re primar	ily hinder	ed due to	o:										[1] = not important	
lack of q	ualified st	aff														[2] = important	
					for produ	ıction						****				[3] = very important **** 1995 to 2012	
					ioi prout	action						J				[0] / [] = no importance or no specific	ation
																[1] = less important	
																[2] = important	
Time s	pan of v	/ariable	2													[3] = very important	
1002	1002	1004	1005	1000	1007	1000	1000	1000	1001	1002	1003	1004	1005	1006	1007	[4] = This box was only ticked off in the	e questionnaire
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
WEST									EAST +								
									WEST								
1000	1000	2000	2004	2002	2000	2004	2005	2006	2007	2000	2000	2010	2011	2012	2010		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST ar	nd WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
FACT																	
EAST																	
WEST																	

3.5.13) hemm12 obstacles to innovations due to: lack of qualified sales staff	West 1982 to 1990	annual
	East and West 1991	once
	East and West since 1993	annual
Wording of question		
1982 to 2004	Further information	
V. Obstacles to innovations		
Currently our innovations are primarily hindered due to:		
innovation potential*		
problems with staff due to difficulties in finding qualified employees on the labor market for		
	*addition 1993 to 2004	
sales	**/***/***	
	** 1982 to 1990; and 1993-94:	
2005 to 2012	[2] = ticked off, no graded importance	
IV. Obstacles to innovations	*** 1991	

Survey period

Survey frequency

Label

No.

Name

Currently			re primar	ily hinder	ed due to):										[1] = not important
lack of q	ualified st	атт			for sales							***				 [2] = important [3] = very important **** 1995 to 2012 [0] / [] = no importance or no specification
																[1] = less important
	•															[2] = important
Time s	pan of v	<i>r</i> ariable														[3] = very important
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[4] = This box was only ticked off in the questionnaire
1902	1983	1904	1985	1980	1987	1366	1989	1990	1991	1992	1993	1994	1993	1990	1997	
WEST									EAST+							
									WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	id WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST WEST																

No.	Name			Label											Survey	period Surve	y frequency
3.5.14) hemm	13		obstacle:	s to innov	ation due	e to: lack o	of cooper	ration witl	h other co	ompanies					1982 to 1990 nd West 1991	annual once
Word	ing of qu	uestion													East ar	nd West since 1993	annual
Current	1991 acles to in ly our inno ion poten	vations a		rily hinder	red due to):										Further information	
	cooperatio	n willingn	ness		of compa	anies of th	ne same s	ector				**/***				*addition 1993 to 2004 ** 1982 to 1990; and 1993-94:	
Current	2012 Obstacles t ly our inno ent coope	vations a	re primar		red due to):										[2] = ticked off, no graded importance*** 1991[1] = not important[2] = important	
					with oth	er compa	nies					**/****				[3] = very important**** 1995 to 2012[0] / [] = no importance or no specificate[1] = less important	tion
	span of v															[2] = important[3] = very important[4] = This box was only ticked off in the	questionnaire
1982 WEST	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST + WEST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST a	nd WEST	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

No.	Name	Label	Survey period	Survey frequency
3.5.15	hemm14	obstacles to innovations due to: lacking cooperation willingness of customers	West 1982 to 1990	annual
		and suppliers	East and West 1991	once
Wordi	ng of question			

1982 to 1	.991															Further information
V. Obsta																
Currently				ily hinde	red due to	o:										
lack of co	operatio	n willingr	iess													
					of custor	mers or su	uppliers					*/**				* 1982 to 1990:
																[2] = ticked off, no graded importance
																** 1991:
Time sp	oan of v	/ariable	2													[1] = not important
																[2] = important
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[3] = very important
WEST									EAST +							
WEST									WEST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

Survey period

Survey period

Survey frequency

Survey frequency

Label

Label

No. Name

Name

No.

3.5.16)	hemm	15		obstacles	s to innov	ations du	ie to: fully	dev. tec	hnology						East ar	1982 to 1990 annua nd West 1991 once nd West since 1993 annua
Wordin	ng of qu	estion														
	cles to in y our inno on potent	vations a	re primai	·	red due to due to ful		ped techr	nology				**/***/*	***			Further information *addition 1993 to 2004
2005 to 2 IV. Obsta Currently					red due to		chnology			l		***				** 1982 to 1990; and 1993-94: [2] = ticked off, no graded importance *** 1991 [1] = not important [2] = important
Time s	pan of v	/ariable	<u>:</u>													 [3] = very important **** 1995 to 2012 [0] / [] = no importance or no specification [1] = less important
1982 WEST	1983	1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996		 [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	nd WEST															
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.5.17)	hemm	16		obstacles	s to innov	ations du	e to: lack	of inforn	nation abo	out ext. k	now-how	•			West 1	.982 to 1990 an	nnual
															East ar	nd West 1991	once
															East ar	nd West since 1993 an	nnual
Wordin	ng of qu	uestion															
1982 to 2	2012															Further information	
V. Obsta	cles to in	novation	s														
Currently	y our inno	vations a	re primar	ily hinder	ed due to	o:											
innovati	on poten	tial*															
		lack of in	formatio	n about ex	victing av	tornal kn	ow-how					**/***/*	·***			*addition 1993 to 2004	
		IACK OF III	ioiiiatioi	ii about e	AISTING CA	iterrial Kir	JVV-110VV] / /				addition 1993 to 2004	
																** 1982 to 1990; and 1993-94:	
																[2] = ticked off, no graded importance	
Time s	pan of v	variable	<u>)</u>													*** 1991	
																[1] = not important	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[2] = important	
																[3] = very important	
WEST									EAST +							**** 1995 to 2012	
									WEST							[0] / [] = no importance or no specification	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[1] = less important	
1998	1999	2000	2001	2002	2003	2004	2005	2000	2007			2010	2011	2012	2013	[2] = important[3] = very important	
										Se	eite 115					[4] = This box was only ticked off in the questionnaire	
EAST on	72 AVAVI = CS															, , , , , , , , , , , , , , , , , , , ,	,

LAST all	u WLSI														
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EAST															
WEST															

No. Na	ame	Label	Survey period	Survey frequency
_				
3.5.18) he	emm17	obstacles to innovations due to: difficulties in know-how supply	East and West 1993 to 2004	annual

Wording of question

1993 to	2011															Further information
V. Obsta	cles to in	novation	S													
Currentl	y our inno	vations a	are prima	rily hinde	red due t	0:										
innovati	ion poten	tial*														
			difficulti	es in supp	oly of exte	ernal knov	w-how					**/***				*addition 1993 to 2004
•																** 1993-94:
																[2] = ticked off, no graded importance
Time s	pan of v	variable	9													
																*** 1995 to 2012
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		[0] / [] = no importance or no specification
																[1] = less important
											EAST ar	nd WEST				[2] = important
																[3] = very important[4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[4] - This box was only ticked on in the questionnaire
2550	2000	2000	2002	2002	2000	200.	2000	2000	2007	2000	2005	2010		2022	2020	
FACT																
EAST at	nd WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

No.	Name			Label											Survey	period Survey	frequency
3.5.19	hemm	18		obstacle	s to innov	rations du	ie to: diffi	culties in	impleme	ntation of	f know-ho	ow .				1982 to 1990 nd West 1991	annual once
Wordi	ng of qu	estion													East ar	nd West since 1993	annual
Current	2004 acles to in ly our inno ion poten	vations a		ily hinder	red due to) :										Further information	
	2012 acles to ir ly our inno	nnovatio r ovations a		ily hinder	red due to	o:		rketable	products			**/***/* ***	***			*addition 1993 to 2004 ** 1982 to 1990; and 1993-94: [2] = ticked off, no graded importance *** 1991 [1] = not important [2] = important [3] = very important **** 1995 to 2012 [0] / [] = no importance or no specification	on.
Time s	span of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		[1] = less important [2] = important	
WEST 1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST 2007	2008	2009	2010	2011	2012		[3] = very important [4] = This box was only ticked off in the qu	uestionnaire
	nd WEST	2000	2301	2002	2303	2007	2003	2000	2007	2000	2003	2010	2011	2012	2013		
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

No.	Name	Label	Survey period	Survey frequency

WEST

Wording of question

1982 to 3 V. Obsta Currently	cles to in					o: sation pro	otection a	greemen	t			*/**				Further information * 1982 to 1990:
Time s																[2] = ticked off, no graded importance** 1991:[1] = not important
WEST	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST + WEST	1992	1993	1994	1995	1996		<pre>[2] = important [3] = very important</pre>
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

No.	Name			Label											Survey	/ period	Survey frequency
	hemm2			obstacle	s to innov	ations du	e to: regu	ulation, st	candardiza	ation					East ar	nd West 1991	once
	ocles to ini					o: on, standa	rdization					*				* characterisation in the data [1] = not important	set
Time s	pan of v	/ariable)													[2] = important [3] = very important	
1982	1983	1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

No.	Name			Label											Survey	y period Survey frequency	
3.5.22)	hemm2	25		obstacles	s to innov	vations du	ue to: lack	of coope	ration wi	th scienti	fic institu	tes			East ar	nd West since 1993 ar	nnual
Wordin	ng of qu	estion															
Currently innovati	2004 Icles to inity Your innotion potented	vations a t ial	ire primar		red due to	o:										Further information	
				with pub	lic scienti	ific institu	ites					**/***				** 1993 to 1994 [2] = ticked off, no graded importance *** 1995 to 2008	
Currently	2012 I cles to ini y our inno ent cooper	vations a	re primar ssibilities									***				 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire 	
Time s	pan of v	/ariable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
											EAST an	nd WEST					
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST an	nd WEST																

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2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029

No.	Name			Label											Survey	y period Survey frequency	
	hemm:			obstacle	s to innov	ations du	ie to: rest	rictive leg	gislation						East ar	nd West since 1993 an	ınua
1993 to 2	2012 cles to in		_													Further information	
Currently other fac		vations a	re primar	rily hinder	red due to		ion					**/***				*addition 1993 to 2004	
Time s	pan of v	/ariable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	** 1993 to 1994: [2] = ticked off, no graded importance *** 1995 to 2012 [0] / [] = no importance or no specification	
											EAST an	d WEST				[1] = less important[2] = important[3] = very important	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[4] = This box was only ticked off in the questionnaire	
EAST an	nd WEST																
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
EAST WEST																	

No. Name Label Survey period Survey frequency

Name

Label

Survey period

Survey period

[0] / [] = no importance or no specification

1997 [1] = less important

[2] = important

[3] = very important

Survey frequency

Survey frequency

Wording of question

1993 to 2 V. Obsta Currently other face	cles to in y our inno			ily hinder		o:* ninistratio	n process	5				**/***				Further information *addition 1993 to 2004
	pan of v															** 1993 to 1994: [2] = ticked off, no graded importance *** 1995 to 2012
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		[0] / [] = no importance or no specification
																[1] = less important[2] = important
											EAST an	id WEST				[3] = very important
																[4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
EAST an	nd WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
EAST WEST																

3.5.25) Wordi r	hemm			obstacles	s to innov	rations du	e to: prol	blems of	customer	acceptar	nce					nd West 1991 once and West since 1993 annual
	cles to in y our inno	novation ovations a problem	re primar				ovelty of	products _.	/processe	·S		**/***/*	***			Further information *addition 1993 to 2004
2005 to 2 IV. Obsta Currently	acles to ir	ovations a	re primar	ily hinder s of custo								***				** 1991 [1] = not important [2] = important [3] = very important *** 1993 to 1994 [2] = ticked off, no graded importance **** 1995 to 2012
Time s	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		[0] / [] = no importance or no specification[1] = less important[2] = important
1998	1999	2000	2001	2002	2003	2004	2005	2006	EAST + WEST	2008	2009	2010	2011	2012		[3] = very important[4] = This box was only ticked off in the questionnaire
EAST an			2001	2002	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013	
2014 EAST WEST	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

3.6 Main focus of innovations

No.

1982

WEST

1983

1984

1985

1986

1987

1988

1989

1990

Name

Label

3.6.1) ts1 Wording of question	main focus of realised innovations: new materials		1982 to 1990 and West 1991 to 1997 i	annual
1982 to 1997 IV./V./VI./VII. Main focus of i Which main focuses for your in product innovations	nnovations nnovation activities are very important with regards to: new materials	19WW* introduced innovations [2]***/**	*"19WW" denotes the year under review	
Time span of variable			** 1996 to 1997	

1992 1993

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1995

1996

1994

1991

EAST +

									WEST						[4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	***1982 to 1991: [2] = ticked off, no graded importance

No. Name Label Survey period Survey frequency

Label

main focus of future innovations: pre-products

No.

3.6.4) **ts4**

Name

West 1982 to 1990 East and West 1991 to 1997

Survey period

West 1982 to 1990

Survey frequency

annual

annual irregular

Wording of question

Which m	1997 I./VII. Ma nain focus innovatic	es for you			ties are v		rtant with		to:	inno	future ovation proj	ects [2]**/*				Further information
Time s	pan of v 1983	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	* 1996 to 1997 [0] / [] = no importance or no specification [1] = less important [2] = important
WEST 1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST	2008	2009	2010	2011	2012	2013	[3] = very important[4] = This box was only ticked off in the questionnaire
																**1982 to 1991: [2] = ticked off, no graded importance

No.	Name			Label											Survey	y period Survey frequency
3.6.3) Wordin		estion		main foc	us of real	ised innov	/ations: p	re-produ	cts							1982 to 1990 annual nd West 1991 to 1997 irregular
1982 to 1																Further information
IV./V./VI Which maproduct i	ain focuse	es for you			ties are v		tant with		to:	introd	19WW*	ations [2]***/*	*			*"19WW" denotes the year under review
Time sp	oan of v	ariable	è													** 1996 to 1997 [0] / [] = no importance or no specification
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[1] = less important
WEST									EAST + WEST							[2] = important[3] = very important[4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	***1982 to 1991: [2] = ticked off, no graded importance

															East ar	nd West 1991 to 1997 irregular
Wordi	ng of qu	uestion														
	I./VII. Ma			tions tion activi	ties are v	ery impo	rtant with	ı regards	to:							Further information
product	innovatio	ons					new pre-	products		inno	future ovation pro	jects [2]**/*				
	pan of v			1005	4007	4000	4000	1000	1001	1002	1002	4004	4005	1005	1007	* 1996 to 1997 [0] / [] = no importance or no specification
1982 WEST	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST + WEST	1992	1993	1994	1995	1996	1997	 [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	**1982 to 1991: [2] = ticked off, no graded importance

No.	Name	Label	Survey period	Survey frequency

West 1982 to 1990 East and West 1991 to 1997

Survey period

Survey period

annual irregular

Survey frequency

Survey frequency

Wording of question

Name

No.

No.

Name

Label

Label

1982 to 1		in facus d	of innova	tions												Further information
IV./V./VI Which m	ain focus	es for you			ties are v	ery impoi	rtant with	regards	to:		19WW*					
				new fuct	ional solu	itions for	existing	products		introd	luced innov	ations [2]***/* [°]	*			*"19WW" denotes the year under review
Time s	pan of \	/ariable														** 1996 to 1997
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		[0] / [] = no importance or no specification [1] = less important
WEST									EAST + WEST							 [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[4] - This box was only ticked on in the questionnaire
																***1982 to 1991: [2] = ticked off, no graded importance

3.6.6)	ts6			main foc	us of futu	re innova	itions: ne	w fuction	nal solutio	ns						1982 to 1990 nd West 1991 to 1997	annua irregula
Vordi	ng of qu	estion															
982 to	1997															Further information	
v./v./v	I./VII. Ma	in focus o	of innova	tions													
Vhich m	nain focuse	es for you	ur innovat	tion activi	ities are v	ery impor	tant with	regards	to:								
roduct	innovatio	ons									future						
										inno	vation proj	ects					
				new fuct	ional solu	itions for	existing p	oroducts				[2]**/*					
ime s	pan of v	/ariable	2														
				1005	4007	4000	4000	4000	4004	4002	4002	4004	1005	1006	1007	* 1996 to 1997	
ime s	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification	
1982				1986	1987	1988	1989			1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification [1] = less important	
				1986	1987	1988	1989		EAST +	1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification [1] = less important [2] = important	
1982				1986	1987	1988	1989			1992	1993	1994	1995	1996	1997	 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important 	onnaire
1982 VEST	1983	1984	1985						EAST + WEST							[0] / [] = no importance or no specification [1] = less important [2] = important	onnaire
1982				1986	1987	1988	1989		EAST +	1992	1993	1994	1995 2011	1996	1997	 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important 	onnaire
1982 VEST	1983	1984	1985						EAST + WEST							 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the quest 	onnaire
1982 VEST	1983	1984	1985						EAST + WEST						2013	 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important 	onnaire

3.6.7)	ts7			main foc	us of real	ised innov	vations: b	oasically r	new produ	ıcts						1982 to 1990 annual and West 1991 to 1997 irregular
Wordin	ng of qu	estion														
1982 to 1		:- f	£ :	* :												Further information
		in focus o es for you			ties are v	ery impoi	tant with	n regards	to:							
	innovatio	•				, , ,		Ü			19WW*					
					basically	new prod	ducts			introd	luced innov	ations [2]***/*	*			*"19WW" denotes the year under review
Time s	pan of v	/ariable														** 1996 to 1997
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification
																[1] = less important
WEST									EAST +							[2] = important
									WEST							[3] = very important [4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[1] This box was only cleaced on in the questionnaire
																***1982 to 1991: [2] = ticked off, no graded importance

No. Name Label	Survey period	Survey frequency
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Name

No. Name

Label

Label

West 1982 to 1990 East and West 1991 to 1997

Survey period

Survey period

annual irregular

Survey frequency

Survey frequency

Wording of question

1982 to 1																Further information
IV./V./VI					tios are w	om i inon o r	+	. wo a o w d o	+							
Which m		-	ır imnovat	ion activi	ties are v	ery impor	tant with	regarus	to:		future					
product (inno	vation proj	ects				
					basically	new prod	ducts					[2]**/*				
Time s	pan of v	/ariable)													
				1												* 1996 to 1997
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		[0] / [] = no importance or no specification
WEST									EAST +							[1] = less important
WEST									WEST							[2] = important[3] = very important
																[4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
																**1982 to 1991: [2] = ticked off, no graded importance
																[2] – ticked off, no graded importance

3.0.9)	ts9			main foc	us of real	ised innov	ations: n	ew prod.	/processi	ng techno	ology					982 to 1990 Id West 1991 to 1997	annua irregula
Nordir	ng of qu	estion															egune
.982 to 1	1997															Further information	
	ain focuse Innovatio	•			new prod					introd	19WW* uced innov	ations [2]***/*	*			*"19WW" denotes the year under review	
Γime s	oan of v	<i>r</i> ariahle															
	J G 11 G 1	rariabic														** 1996 to 1997	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification	
1982				1986	1987	1988	1989	1990		1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification [1] = less important	
				1986	1987	1988	1989		EAST +	1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification[1] = less important[2] = important	
1982				1986	1987	1988	1989			1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification [1] = less important	naire
1982				1986	1987	1988	1989		EAST +	1992	1993	1994	1995 2011	1996	1997	 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important 	naire

3.6.10) Wordi ı	ts10	estion		main foc	us of futu	ıre innova	itions: nev	w prod./ţ	orocessinį	g techn.						1982 to 1990 annual and West 1991 to 1997 irregular
		es for you	ır innovat	ion activi			rtant with			inno	future ovation pro	jects][2]**/*				Further information
1982	pan of v	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	* 1996 to 1997 [0] / [] = no importance or no specification [1] = less important
WEST 1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST	2008	2009	2010	2011	2012	2013	[2] = important[3] = very important[4] = This box was only ticked off in the questionnaire
																**1982 to 1991: [2] = ticked off, no graded importance

No.	Name	Label	Survey period	Survey frequency

Name

Label

West 1982 to 1990 East and West 1991 to 1997

Survey period

Survey frequency

annual irregular

Wording of question

1982 to 1		in focus (of innova	tions												Further information
	ain focus	es for you	ır innovat			ery impoi utomatio		regards	to:	introd	19WW* luced innov	ations [2]***/* [°]	*			*"19WW" denotes the year under review
Time s	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		** 1996 to 1997 [0] / [] = no importance or no specification
WEST									EAST + WEST							 [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	***1982 to 1991: [2] = ticked off, no graded importance

No.	Name			Label											Survey	period Survey frequency
	ts12	uestion		main foc	us of futu	ire innova	itions: fur	ther auto	omation							1982 to 1990 annua nd West 1991 to 1997 irregula
Which Process	o 1997 VI./VII. Ma main focus s innovatio	es for you	ur innovat			ery impo		regards	to:	inno	future ovation pro	jects [2]**/*				Further information
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	* 1996 to 1997 [0] / [] = no importance or no specification
WEST 1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST 2007	2008	2009	2010	2011	2012	2013	[1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
																**1982 to 1991: [2] = ticked off, no graded importance

3.6.13) Wordin	ts13 ng of qu	estion		main foc	us of real	ised inno	vations: n	ew orgar	nisation st	ructures						1982 to 1990 annual and West 1991 to 1997 irregular
1982 to 2	1997															Further information
IV./V./V	I./VII. Ma	in focus o	of innova	tions												
Which m	ain focus	es for you	ır innovat	tion activi	ties are v	ery impoi	rtant with	regards	to:							
Time s					new tech	nnical org	anisation	structure	2S	introc	19WW*	vations][2]***/*	*			*"19WW" denotes the year under review
Title 3	parior	ariabic	•													** 1996 to 1997
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification
																[1] = less important
WEST									EAST +							[2] = important
									WEST							[3] = very important
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	[4] = This box was only ticked off in the questionnaire
																***1982 to 1991: [2] = ticked off, no graded importance

Name

Name

No.

West 1982 to 1990 East and West 1991 to 1997

Survey period

Survey period

annual irregular

Survey frequency

Survey frequency

Wording of question

Label

Label

1982 to 2 IV./V./V Which m Process i	I./VII. Ma ain focus	es for you	ır innovat	ion activi		ery impor				innc	future ovation proj	ects [2]**/*			Further information
Time s	pan of \ 1983	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	* 1996 to 1997 [0] / [] = no importance or no specification [1] = less important
WEST 1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST	2008	2009	2010	2011	2012	[2] = important[3] = very important[4] = This box was only ticked off in the questionnaire
															**1982 to 1991: [2] = ticked off, no graded importance

3.6.15) Wordin		estion		main foc	us of real	ised inno	vations: d	ata proce	essing							1982 to 1990 annual and West 1991 to 1997 irregular
1982 to 1		in focus (of innova	tions												Further information
Which m					ties are v data pro		tant with	regards	to:	introd	19WW*	/ations][2]***/*	*			*"19WW" denotes the year under review
Time s	-			1006	4007	1000	1000	1000	1001	1003	4002	1004	1005	1005	1007	** 1996 to 1997 [0] / [] = no importance or no specification
1982 WEST	1983	1984	1985	1986	1987	1988	1989	1990	1991 EAST + WEST	1992	1993	1994	1995	1996	1997	 [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	***1982 to 1991: [2] = ticked off, no graded importance

3.6.16) Wordi		uestion		main foc	us of futu	ire innova	ations: da	ta proces	ssing							1982 to 1990 annual nd West 1991 to 1997 irregular
1982 to 1 IV./V./VI Which m Process i	I./VII. Ma ain focus	es for you	ır innovat	tion activi on	ties are v data pro		rtant with	n regards	to:	inno	future ovation pro	jects][2]**/*				Further information
1982 WEST 1998	pan of v 1983 1999	variable 1984 2000	1985	1986	1987	1988	1989	1990	1991 EAST + WEST 2007	1992	1993	1994	1995 2011	1996	1997	* 1996 to 1997 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
																**1982 to 1991: [2] = ticked off, no graded importance

No.	Name	Label	Survey period	Survey frequency

Name

Label

main focus of realised innovations: text processing

West 1982 to 1990 East and West 1991 to 1997

Survey period

Survey frequency

annual irregular

Wording of question

1982 to 3 IV./V./V Which m Process	I./VII. Ma ain focus	es for you	ur innovat	tion activi on	ities are v		rtant with	ı regards	to:	introd	19WW* luced innov	ations [2]***/* [:]	*			Further information *"19WW" denotes the year under review
Time s 1982 WEST	pan of v	<mark>/ariable</mark> 1984	1985	1986	1987	1988	1989		1991 EAST + WEST	1992	1993	1994	1995	1996	1997	** 1996 to 1997 [0] / [] = no importance or no specification [1] = less important [2] = important [3] = very important [4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	***1982 to 1991: [2] = ticked off, no graded importance

No.	Name			Label											Survey	period Survey frequency
3.6.18) Wordi	ts18 ng of qu	ıestion		main foc	us of futu	ire innova	itions: te	xt proces	sing							1982 to 1990 annua nd West 1991 to 1997 irregular
Which n	1997 /I./VII. Ma nain focus innovatio	es for you	ır innovat	ion activi on	ties are v		rtant with	regards	to:	inno	future ovation proj	jects [2]**/*				Further information
Time s	pan of v	/ariable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	* 1996 to 1997 [0] / [] = no importance or no specification [1] = less important [2] = important
WEST 1998	1999	2000	2001	2002	2003	2004	2005		EAST + WEST	2008	2009	2010	2011	2012	2013	[3] = very important [4] = This box was only ticked off in the questionnaire
																**1982 to 1991: [2] = ticked off, no graded importance

3.6.19)	ts19			main foc	us of real	ised inno	vations: ir	nform. an	id commu	inication	technolog	gy				1982 to 1990 annual ann
Wordin	ng of qu	estion														<u> </u>
1982 to 1	L997															Further information
IV./V./VI																
Which m					ties are v	ery impoi	tant with	regards	to:							
Process i	nnovatio	ns in adn	ninistrati	on							19WW*					
					informat	ion and co	ommunic	ation tec	hnology	introd	duced innov	[2]***/*	*			*"19WW" denotes the year under review
					imormat	ion ana c	ommanie	ation tee	тпоюду] (_)				15WW denotes the year under review
	_															
Time s _l	pan of v	/ariable	j													** ***
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	** 1996 to 1997 [0] / [] = no importance or no specification
1902	1303	1304	1963	1960	1907	1300	1303	1990	1991	1992	1995	1994	1993	1990	1997	[1] = less important
WEST									EAST +							[2] = important
									WEST							[3] = very important
																[4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
																***1982 to 1991:
																[2] = ticked off, no graded importance

No. Name Label	Survey period	Survey frequency
----------------	---------------	------------------

West 1982 to 1990 East and West 1991 to 1997 annual irregular

Wording of question

WEST

3.6.20) ts20

1982 to	1997															Further information
IV./V./V	I./VII. Ma	in focus	of innova	tions												
Which m	nain focus	es for you	ur innovat	ion activi	ties are v	ery impoi	rtant with	regards	to:							
Process	innovatio	ns in adn	ninistratio	on							future					
					informat	ion and c	ommunic	ation tec	hnology	inno	ovation pro	ects [2]**/*				
					inomat	ion and c	ommunic	ation tec	riiiology			[[2] /				
		_		_	_	_		_			_					
Time s	pan of v	/ariable	9													
	•															* 1996 to 1997
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	[0] / [] = no importance or no specification
																[1] = less important
WEST									EAST +							[2] = important
									WEST							[3] = very important
																[4] = This box was only ticked off in the questionnaire
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
																**4002 +- 4004
																**1982 to 1991:
																[2] = ticked off, no graded importance

3.7 F	Patent syst	em													
No.	Name		Label								:	Survey	period	Survey frequency	
	1) ptw1		growing pat	tent protect	ion due to ch	anged impo	ortance of p	patents			ı	West 1	983		once
During	tent system g the last 5 years ents, as the impo						ncreasingly][1]				Further information		
Time	span of variate 1983 19 WEST		1986 1	1987 198	38 1989	1990	1991 19	992 1993	1994	1995	1996	1997			
No.	Name		Label									Survey	period	Survey frequency	
													polici	Survey frequency	
	2) ptw2 ding of quest		patent prot	ection unch	anged due to	changed in	nportance c	of patents				West 1			once
1983 VII. Par During		ion we protected (our innovati	ion projects		Co	nportance o][1]			West 1			once

No.	Name	Label	Survey period	Survey frequency

3.7.3) ptw3															
	falling pa	atent prote	ection du	ue to char	nged imp	ortance o	f patents					West 1	1983		once
Wording of question															
1983													Further information		
VII. Patent system													Tartife information		
During the last 5 years we protect	ted our inno	vation pro	ojects			decreasi	ingly		[1]						
by patents, as the importance of	patents char	nged in ou	ır techno	logy area											
Time span of variable															
	1006	4007	4000	1000	1000	1001	1002	1002	1004	1005	1005	1007			
1982 1983 1984 198	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
WEST															
No. Name	Label											Survey	period	Survey fr	requency
3.7.4) ptw4	no nater	nt protection	ion due t	o change	d imports	ance of na	atents					West 1	1983		once
	no pater	it protection	on due to	o change	и штрогса	arice or pa	itents					vvest 1	1505		Office
Wording of question															
1983													Further information		
VII. Patent system During the last 5 years we protect	ted our inno	vation pro	ojects						_						
						not at al	II		[1]						
by patents, as the importance of															
, , , , , , , , , , , , , , , , , , , ,	patents char	nged in ou	ır techno	logy area											
	patents char	nged in ou	ır techno	logy area											
Time span of variable	patents char	nged in ou	ır techno	logy area											
Time span of variable						1991	1992	1993	1994	1995	1996	1997			
Time span of variable 1982 1983 1984 198		nged in ou	1988	logy area	1990	1991	1992	1993	1994	1995	1996	1997			
Time span of variable						1991	1992	1993	1994	1995	1996	1997			
Time span of variable 1982 1983 1984 198						1991	1992	1993	1994	1995	1996	1997			
Time span of variable 1982 1983 1984 198 WEST	1986					1991	1992	1993	1994	1995	1996		neriod	Survey fr	requency
Time span of variable 1982 1983 1984 198						1991	1992	1993	1994	1995	1996		, period	Survey fr	requency
Time span of variable 1982 1983 1984 198 WEST	1986 Label		1988	1989	1990				1994	1995	1996			Survey fr	requency
Time span of variable 1982	1986 Label	1987	1988	1989	1990				1994	1995	1996	Survey		Survey fr	
Time span of variable 1982 1983 1984 198 WEST No. Name	1986 Label	1987	1988	1989	1990				1994	1995	1996	Survey		Survey fr	
Time span of variable 1982 1983 1984 198 WEST No. Name 3.7.5) ptw5 Wording of question	1986 Label	1987	1988	1989	1990				1994	1995	1996	Survey West 1		Survey fr	
Time span of variable 1982 1983 1984 198 WEST No. Name 3.7.5) ptw5 Wording of question 1983 VII. Patent system During the last 5 years we protect	Label important	1987 nce of pate	1988 ents char	1989	1990 ong increa	ase of pro	otection e	ffect		1995	1996	Survey West 1	1983	Survey fr	
Time span of variable 1982 1983 1984 198 WEST No. Name 3.7.5) ptw5 Wording of question 1983 VII. Patent system	Label important	1987 nce of pate	1988 ents char	1989	1990 ong increa	ase of pro	otection e	ffect		1995	1996	Survey West 1	1983	Survey fr	
Time span of variable 1982 1983 1984 198 WEST No. Name 3.7.5) ptw5 Wording of question 1983 VII. Patent system During the last 5 years we protect	Label importanted our innopatents in our	1987 nce of pate	ents char	1989	1990 /consiste ith regard	ntly/decr	otection e	ffect		1995	1996	Survey West 1	1983		
Time span of variable 1982 1983 1984 198 WEST No. Name 3.7.5) ptw5 Wording of question 1983 VII. Patent system During the last 5 years we protect	Label importanted our innopatents in our	1987 nce of pate	1988 ents char ojects incogy area,	1989 reasingly, in fact w	1990 /consiste ith regard	ntly/decr	otection e	ffect		1995	1996	Survey West 1	Further information		
Time span of variable 1982 1983 1984 198 WEST No. Name 3.7.5) ptw5 Wording of question 1983 VII. Patent system During the last 5 years we protect by patents as the importance of	Label importanted our innopatents in our	1987 nce of pate	1988 ents char ojects incogy area,	1989 reasingly, in fact w	1990 /consiste ith regard	ntly/decr	otection e	ffect		1995	1996	Survey West 1	Further information		
Time span of variable 1982 1983 1984 198 WEST No. Name 3.7.5) ptw5 Wording of question 1983 VII. Patent system During the last 5 years we protect by patents as the importance of	Label importanted our innopatents in our	1987 vation prour technologotection effection	ents char	reasingly, in fact w	1990 /consiste ith regard	ntly/decr	easingly/	ffect				Survey West 1	Further information		
Time span of variable 1982 1983 1984 198 WEST No. Name 3.7.5) ptw5 Wording of question 1983 VII. Patent system During the last 5 years we protect by patents as the importance of	Label importanted our innopatents in our	1987 nce of pate	1988 ents char ojects incogy area,	1989 reasingly, in fact w	1990 /consiste ith regard	ntly/decr	otection e	ffect		1995	1996	Survey West 1	Further information		

ſ	No.	Name	Label						Survey	period	S	urvey freqเ	uency	

1993

1994

1995

1996

1997

1983

WEST

1982

1984

1985

1986

1987

1988

1989

1990

1991

1992

3.7.9	ptw9			importa	ance of pa	itents cha	inged: str	ong decre	ease of pr	otection e	effect				West 1	1983		once
Wordi	ng of qu	estion																
During t	ent system the last 5 yents as the i	ears we p		tents in o		ology area				reasingly/i	not at all'	*				Further information		
						[1]	decreas	ed largely	/							* see 3.7.1) ptw1 to 3.7.4) ptw4		
Time s	span of v	variable	j															
1982	1983 WEST	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
No.	Name			Label											Survey	/ period	Survey frequenc	Cy
3.7.10) ptw10			importa	ance of pa	itents cha	anged: str	ong incre	ase of info	ormation	effect				West 1			once
	ng of qu	estion		mport	arree or pe		gea. st.			ormacion	circut				TT CSC 2			01100
1983																Further information		
During t	ent system the last 5 yonts as the i	ears we _l		tents in o		ology area	ı, in fact w		ds to	reasingly/i	not at all'	k				* see 3.7.1) ptw1 to 3.7.4) ptw4		
Time s	span of v	variable	è															
1982	1983 WEST	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
No.	Name	_	_	Label	_	_	_	_	_	_	_	_	_	_	Survey	/ period	Survey frequenc	
NO.	Name			Laber											Survey	, period	Survey frequent	-y
	ptw11	ostion.		importa	ance of pa	itents cha	inged: litt	le increas	e of infor	mation ef	fect				West 1	1983		once
	ng of qu	lestion														T		
During t	ent system the last 5 yents as the i	ears we p		tents in o	ur techno	ology area				reasingly/i	not at all*	*				Further information		
				in	formation e	[1]	increase	ed slightly								* see 3.7.1) ptw1 to 3.7.4) ptw4		
Time s	span of v	variable	9															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			

No.	Name	Label	Survey period	Survey frequency

WEST

3.7.14) P	CVVI			iiiiportai	ice or par	lents chai	igeu. stro	ing decrea	356 01 11111	ormation	enect				VVC3t 1	1303
Wording	g of qu	estion														
1983																Further information
VII. Patent	system	1														
During the	last 5 ye	ears we p	protected	d our inno	vation pr	ojects inc	reasingly,	consister/	ntly/decre	easingly/r	not at all*					
by patents	as the i	mportan	ice of pat	ents in ou	ır technol	ogy area,	in fact wi	th regard	s to							
				info	ormation ef	7	decrease	d largely								* see 3.7.1) ptw1 to 3.7.4) ptw4
						[1]	uecrease	ulargery								see 5.7.1) ptw1 to 5.7.4) ptw4
																†
Time spa	an of v	/ariable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
W	VEST															

No. Name Label Survey period Survey frequency

Survey period

No.

Name

Survey frequency

Wording of question

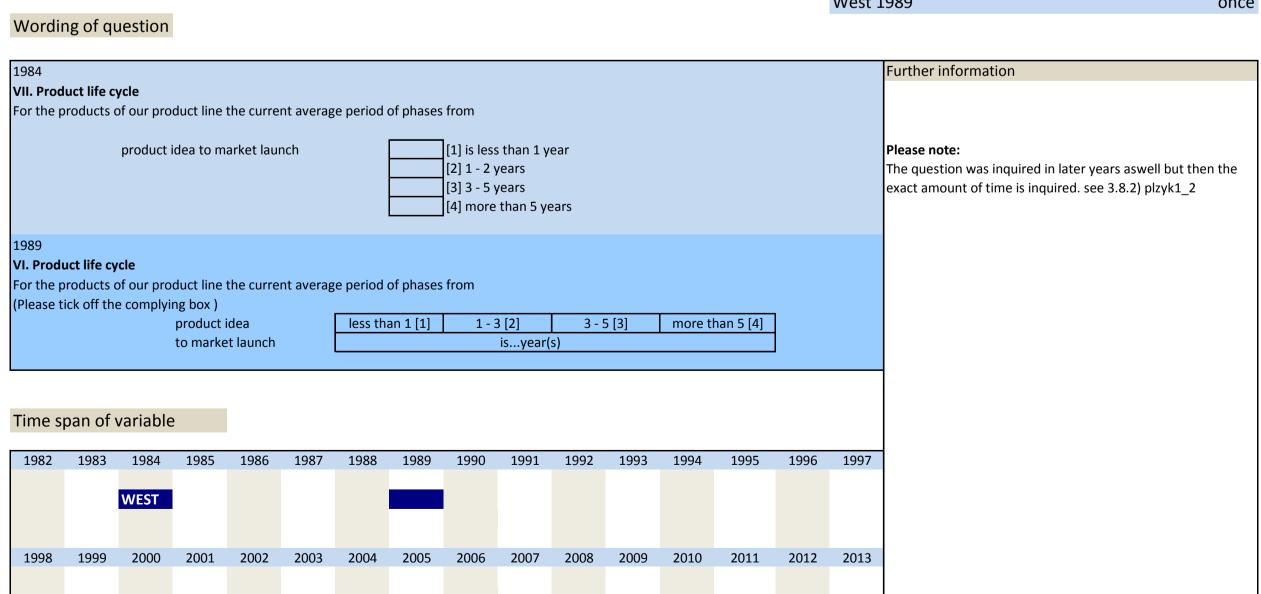
Label

1983																Further information
	tent system							,		/	114					
	the last 5 y				-				-	easingly/r	not at all*					
	ents as the ction effect/	•	•			· ·		_								
-	ased slightly				eu laigely	, increase	eu siigiiti	y/ala ilot	ciiaiige/							
		,		•												
				and/or it	was poss	sible to ke	ep the in	vention s	ecret			[1]				* see 3.7.1) ptw1 to 3.7.4) ptw4
																** see 3.7.5) ptw5 to 3.7.14) ptw14
T:	£.															
Time	span of v	/ariable														
1982	2 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1302	1303	1304	1303	1300	1307	1300	1303	1330	1331	1332	1333	1334	1333	1330	1337	
	WEST															

3.7.16) ptw16		nportance	e of pate	ents chan	ged: low	amount c	of inventi	on					West 1	1983	once
Wording of question															
1983 VII. Patent system														Further information	
During the last 5 years we play patents as the important protection effect/informations decreased largely**	ce of patent	ts in our t ncreased	technolog	gy area, i increase	in fact wi	th regard: //did not	s to change/							* see 3.7.1) ptw1 to 3.7.4) ptw4	
Time span of variable		4006	1007	1000	1000	1000	4004	4002	1002	1004	1005	1000	1007	** see 3.7.5) ptw5 to 3.7.14) ptw14	
1982 1983 1984 WEST	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

3.8 Product life cycle

No. Name	Label	Survey period	Survey frequency
3.8.1) plzyk1_1	period between product idea and market launch in years	West 1984	once
, , =	·	West 1989	once



Survey period

Survey period

Survey frequency

Survey frequency

Wording of question

Name

No.

No.

EAST +

Name

1994 to 2 IV./VI./V For the p	II. Produ			the curre	nt averag	e period (of phases	from								Further information
			product to marke				is			months						Please note: The question was inquired in earlier years aswell but there the possible answers were limited
Time s	pan of v	/ariable	2													to 4 periods see 3.8.1) plzyk1_1
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994 EAST + WEST	1995	1996	1997	
1998 EAST + WEST	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	

period between product idea and market launch in months

Label

Label

	plzyk2 _. ng of qu	_1 uestion		period be	etween m	arket lau	nch and p	product in	nprovemo	ent/aban	doning in	years			West 1	
1984 VII. Prod For the p	oroducts o	-	aunch to	product ir	mprovem		of phases	from [1] is less [2] 1 - 2 y [3] 3 - 5 y [4] more	ears ears							Please note: The question was inquired in later years aswell but then the exact amount of time is inquired. see 3.8.4) plzyk2_2
1989 VI. Produ For the p (Please t	roducts o	of our pro	ng box) aunch to	product ir	mprovem		of phases less tha		1-3	3 [2] isyear(5 [3]	more th	an 5 [4]		
Time s	pan of v	variable 1984 WEST	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

3.8.4)	plzyk2	_2		period b	etween n	narket lau	nch and բ	oroduct in	mprovem	ent/aban	doning ir	n months			East ar	nd West 1994 to 2012	irregular
Wordi	ng of qu	estion															
1994 to 2 IV./VI./V For the p	/II. Produ products o	of our pro	duct line							months						Further information	
				product ii the produ		ent	is			months						Please note: The question was inquired in earlier years aswell but there the possible answers were limited to 4 periods	
Time s	pan of v	/ariable	9													see 3.8.3) plzyk2_1	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994 EAST + WEST	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

Seite 134

WEST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

No. Name Label Survey period Survey frequency

3.8.5) pl :														West 1984			once	
Wording	of que	estion																
1984	. !!£															Further information		
VII. Product During the la			period o	f phases f	from													
			product	idea to m	narket lau	nch					[1]	shorten	ed					
Time spai	n of va	ariable	2															
1982 1	982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 WEST																	
	WEST																	
No. No.	200	_	_	Label	_	_	_	_	_	_	_	_	_	_	Survoy	noriod	Survey freque	an cu
No. Na	ame			Labei											Survey	period	Survey freque	ency
3.8.6) pl :	lzyk4			phase b	etween p	roduct ide	ea and ma	arket laur	ich unch	anged					West 1	1984		once
Wording	of que	estion																
1984	• I:£	1-														Further information		
VII. Product During the la			period o	f phases f	from													
			product	idea to m	narket lau	nch					[1]	did not o	change					
Time spai	n of va	ariable	2															
1982 1	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
	V	VEST																
										_	_							
No. Na	ame			Label											CILINIA	neriod	Survey freque	ID CLI
															Survey	period		ency
3.8.7) pl :	lzyk5			phase b	etween p	roduct ide	ea and ma	arket laur	ich longe	r				Т	West 1			once
3.8.7) pl		estion		phase b	etween p	roduct ide	ea and ma	arket laur	ich longe	er							, , , , , , , , , , , , , , , , , , , ,	
Wording	of que			phase b	etween p	roduct ide	ea and ma	arket laur	nch longe	·r					West 1			
Wording	of que	le				roduct ide	ea and ma	arket laur	nch longe	r					West 1	1984		
Wording 1984 VII. Product	of que	i le ars this	period o		from		ea and ma	arket laur	nch longe	r] [1]	was exte	ended		West 1	1984		
Wording 1984 VII. Product	of que	i le ars this	period o	f phases f	from		ea and ma	arket laur	nch longe	r	[1]	was exte	ended		West 1	1984		
Wording 1984 VII. Product	of que	i le ars this	period o	f phases f	from		ea and ma	arket laur	nch longe	r	[1]	was exte	ended		West 1	1984		
Wording 1984 VII. Product During the la	of que	i le ars this	period o	f phases f	from		ea and ma	1990	1991	1992	1993	was exte	ended 1995	1996	West 1	1984		
Wording 1984 VII. Product During the la	of que	le ars this ariable	period o	f phases f	from narket lau	nch								1996	West 1	1984		
Wording 1984 VII. Product During the la	of que	ariable	period o	f phases fidea to m	from narket lau	nch								1996	West 1	Further information		once
Wording 1984 VII. Product During the la	of que	ariable	period o	f phases f	from narket lau	nch								1996	West 1	1984	Survey freque	once
Wording 1984 VII. Product During the la	of que	ariable	period o	f phases fidea to m	from narket lau 1987	nch	1989	1990	1991	1992	1993	1994		1996	West 1	Further information period		once
Vording 1984 VII. Product During the la	of que	ariable 1984 VEST	period of product	f phases fidea to m	from narket lau 1987	1988	1989	1990	1991	1992	1993	1994		1996	1997	Further information period		ency
Vording 1984 VII. Product During the la 1982 1982 1982 1982 1982 1982 1982	of que	ariable 1984 VEST	period of product	f phases findea to m	from narket lau 1987	nch	1989	1990	1991	1992	1993	1994		1996	1997 Survey West 1	Further information period		ency
Vording 1984 VII. Product During the la 1982 1982 1982 1 No. Na 3.8.8) pl:	of que	eriable 1984 VEST	period of product	f phases findea to make the description of the desc	from narket lau 1987 etw. mark	nch	1989	1990	1991	1992	1993	1994		1996	1997 Survey West 1	Further information period 1984		ency
Vording 1984 VII. Product During the la 1982 1982 1982 1 No. Na 3.8.8) pl Wording 1984 VII. Product	of que	eriable 1984 VEST	period of product 1985	f phases fidea to m 1986 Label phase befines finances	from 1987 etw. mark	nch 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997 Survey West 1	Further information period 1984		ency
Vording 1984 VII. Product During the la 1982 1982 1982 1984 VII. Product During the la	of que	eriable 1984 VEST	period of product 1985	f phases fidea to m 1986 Label phase befines finances	from 1987 etw. mark	nch 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997 Survey West 1	Further information period 1984		ency
Vording 1984 VII. Product During the la 1982 1982 1982 1984 VII. Product During the la	t life cyclast 5 years ame	eriable 1984 VEST	period of product prod	f phases fidea to m 1986 Label phase befines finance financ	from 1987 etw. mark	nch 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997 Survey West 1	Further information period 1984		ency
Vording 1984 VII. Product During the la 1982 1982 1982 1982 1984 VII. Product During the la market laun Time span	t life cyclast 5 years 1983 Value of questificate to proper to pr	eriable 1984 VEST	period of product prod	f phases fidea to m 1986 Label phase befines finance financ	from 1987 etw. mark	nch 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997 Survey West 1	Further information period 1984		ency
Vording 1984 VII. Product During the la 1982 1982 1982 1982 1984 VII. Product During the la market laun Time span	of que	ariable 1984 VEST estion ele ars this	period of product 1985	f phases finent or ab	1987 etw. mark	1988 set launch	1989	1990	1991 ov./abar	1992	1993	1994	1995 ed		1997 Survey West 1	Further information period 1984		ency

Survey period

Survey frequency

Label

Name

No.

Name

Label

Survey period

Survey frequency

1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST No. Name Label Survey period Survey frequency Seite 138

3.8.17) plzy	reason for change of plzyk2_1 phase: changed behaviour of consumers We													West 1	.984	or	ıce
Wording of	Vording of question																
															le		
1984 VII. Product lif	fe cycle														Further information		
Primary reason		nge of pe	riods of p	hase []	was												
market launch	to product in	nproven	nent or ab	andoning	g of the pi	oduct			[1]	changed	d behavio	ur of consu	umers				
								-									
Time span	ne span of variable																
1982 198	33 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
	WEST																
No. Nam	ne		Label											Survey	period	Survey frequency	
3.8.18) plzy	k16		reason f	or change	e of plzyk	2_1 phase	: domest	ic compe	tition					West 1	1984	or	ıce
Wording of	question																
1984															Further information		
VII. Product lif	-																
Primary reasor	n for the char	nge of pe	riods of p	hase []	was				_								
market launch	to product in	mprovem	nent or ab	andoning	g of the pi	roduct			[1]	domesti	c compet	ition					
Time span	of variable	<u> </u>															
1982 198	33 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
	WEST																
No. Nam	ne	-	Label	-	-	-	-	-	-	-	-	-	-	Survey	period	Survey frequency	
Tro. Train			Laber											Jaivey	period	Survey frequency	
3.8.19) plzy	k17		reason f	or change	e of plzyk:	2_1 phase	e: foreign	competit	ion					West 1	.984	or	ıce
Wording of	faucstion																
Wording of	question																
1984 VII. Product lif	fo svele														Further information		
Primary reason		nge of pe	riods of p	hase []	was												
market launch	to product in	nproven	nent or ab	andoning	g of the pi	roduct] [1]	foreign	competiti	on					
	<u> </u>										·						
Time span	of variable																
1982 198	33 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
	WEST																
															1		
			Lahol											Survov			

		WEST						
No.	Name	Label	 _	_	_	Survey p	period	Survey frequency
						, .		, ,

3.9.3																	
	3) fues3	R&D realised by central internal R&D institution, foreign													West 1985		
Word	ling of que	stion															
*****	ing or que	Scion															
1985	D - strategies														Further information		
		o for our interm	ediate-tern	n schedul	ed innova	ition activ	rities wer	e execute	ed by								
	C	entral internal	R&D institu	ıtion				foreign] [1]								
		ericiai incernai	NGD IIIStitt	4011](+)								
Time s	span of va	riable															
1982	1983	1984 1985	5 1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
		WEST															
		WEST															
No.	Name		Label											Survey	period	Survey frequenc	СУ
3.9.4	4) fues4		R&D rea	ilised by e	xternal d	omestic R	&D instit	ution						West 1	.985		onc
Word	ling of que	stion															
4005															Fronth on information		
1985 VII. R&I	D - strategies	5													Further information		
The nec	cessary R&D	for our interm	ediate-tern	n schedul	ed innova	ition activ	ities wer										
	e	xternal R&D ir	stitution					domestic][1]								
Time s	span of va	riable															
1982	1983													1997			
		1984 1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1337			
		1984 1985 WEST		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1337			
				1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1337			
				1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1337			
No	Name			1987	1988	1989	1990	1991	1992	1993	1994	1995			neriod	Survey frequenc	
No.	Name			1987	1988	1989	1990	1991	1992	1993	1994	1995			period	Survey frequenc	S Y
			Label		_		_		1992	1993	1994	1995		Survey		Survey frequenc	
3.9.5	5) fues5	WEST	Label	1987	_		_		1992	1993	1994	1995				Survey frequenc	cy onc
3.9.5		WEST	Label		_		_		1992	1993	1994	1995		Survey		Survey frequenc	
3.9.5	5) fues5	WEST	Label		_		_		1992	1993	1994	1995		Survey West 1	.985	Survey frequenc	
3.9.5 Word 1985 VII. R&I	fues5 ling of que	estion	Label R&D rea	ilised by e	xternal fo	oreign R&	D institut	ion		1993	1994	1995		Survey West 1		Survey frequenc	
3.9.5 Word 1985 VII. R&I	fues5 ling of que	west	Label R&D rea	ilised by e	xternal fo	oreign R&	D institut	ion		1993	1994	1995		Survey West 1	.985	Survey frequenc	
3.9.5 Word 1985 VII. R&I	fues5 ling of que D - strategies cessary R&D	estion	Label R&D rea	ilised by e	xternal fo	oreign R&	D institut	ion e execute		1993	1994	1995		Survey West 1	.985	Survey frequenc	
3.9.5 Word 1985 VII. R&I	fues5 ling of que D - strategies cessary R&D	estion s for our interm	Label R&D rea	ilised by e	xternal fo	oreign R&	D institut	ion e execute	ed by	1993	1994	1995		Survey West 1	.985	Survey frequenc	
3.9.5 Word 1985 VII. R&I The nec	fues5 ling of que D - strategies cessary R&D	westion s for our interm external R&D in	Label R&D rea	ilised by e	xternal fo	oreign R&	D institut	ion e execute	ed by	1993	1994	1995		Survey West 1	.985	Survey frequence	
3.9.5 Word 1985 VII. R&I The nec	fues5 ling of que D - strategies cessary R&D	westion s for our interm external R&D in	Label R&D rea	ilised by e	xternal fo	oreign R&	D institut	ion e execute	ed by	1993	1994	1995		Survey West 1	.985	Survey frequence	
3.9.5 Word 1985 VII. R&I The nec	fues5 ling of que D - strategies cessary R&D ex	westion s for our interm external R&D in	Label R&D rea	ilised by e	xternal fo	oreign R&	D institut	ion e execute	ed by	1993	1994	1995		Survey West 1	.985	Survey frequence	
3.9.5 Word 1985 VII. R&I The nec	fues5 ling of que D - strategies cessary R&D ex	west estion for our interm external R&D in	ediate-term	nlised by e	ed innova	oreign R&	D institut	ion e execute foreign	ed by					Survey West 1	.985	Survey frequence	
3.9.5 Word 1985 VII. R&I The nec	fues5 ling of que D - strategies cessary R&D ex	west stion for our interm xternal R&D in riable 1984 1985	ediate-term	nlised by e	ed innova	oreign R&	D institut	ion e execute foreign	ed by					Survey West 1	.985	Survey frequence	

		W	EST										
No.	Name		Lak	bel					Survey	period	Sur	vey freque	ncy

3.9.6) fues6	ext	ernal R&D inst	itutions aı	re: big res	search ins		West 1985							
Wording of question	n													
1985 VII. R&D - strategies If external R&D institution	ns were utilisec	d, those were											Further information	
	big research	institutions (e	.g.: KfK, Kf	fA)][1]							
Time span of variab	le													
1982 1983 1984	1985 1	986 1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
No. Name	La	bel										Survey	period	Survey frequency
3.9.7) fues7 Wording of question		ernal R&D inst	itutions aı	re: institu	tes of un	iversities						West 1	1985	on
1985													Further information	
VII. R&D - strategies If external R&D institution	ns were utilised	d, those were												
	inst	titutes of unive	ersities				[1]							
Time span of variab	le													
1982 1983 1984	1985 1	986 1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
	WEST													
No. Name	La	bel	_	_				_	_	_	-	Survey	period	Survey frequency
3.9.8) fues8 Wording of question		ernal R&D inst	itutions aı	re: institu	tes of un	iversities	of applie	d science				West 1	1985	on
1985													Further information	
VII. R&D - strategies If external R&D institution	ns were utilised	d, those were												
	inst	titutes of unive	ersities of	applied so	cience			[1]						
Time span of variab	le													
1982 1983 1984	1985 1	986 1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
	WEST													
No. Namo	La												noriod	Survey frequency
													/ IO O IV I O O	

3.9.9)	fues9			external	I R&D inst	itutions a	re: institu	ites of th	e Frauenl	hofer Ges	ellschaft				West 1	.985	(onc
Wordi	ng of qı	uestion	1															
1985																Further information		
VII. R&D	- strateg															Tartiel morniation		
If extern	ial R&D in	stitution	is were ut	ilised, tho	se were						_							
				institute	es of the F	rauenhof	er Gesells	schaft			[1]							
Time s	pan of	variabl	е															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
			WEST															
																<u> </u>		
No.	Name			Label											Survey	period	Survey frequency	
3.9.10)	fues10			external	I R&D inst	itutions a	re: other	research	institute	S					West 1	.985	(onc
Wordi	ng of qı	uestior	1															
																I		
1985 VII. R&D) - strateg	ies														Further information		
If extern	nal R&D in	stitution	is were ut	ilised, tho	se were													
				other re	search in	stitutes (e	e.g. Battel	le)		[1]								
Time s	pan of	variabl	е															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
			WEST															
No.	Name		-	Label	-	-	-		-	-	-	-	-	-	Survey	period	Survey frequency	
140.	Name			Lubei											Jaivey	period	Jurvey frequency	
3.9.11)	fues11			external	l R&D inst	itutions a	re: foreig	n researc	ch institut	es					West 1	.985		onc
Wordi	ng of qı	ıostior																
vvorui	ng or qu	uestioi																
1985 VII. R&D) - strateg	ies														Further information		
			s were ut	ilised, tho	se were													
				foreign r	research i	nstitutes				[1]								
Time	span of	variabl	۵															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
			WEST															
No.	Name			Label											Survey	period	Survey frequency	

3.9.17	2) fues12			no R&D	cooperat	ions with	other co	mpanies							West 1	1985		onc
Word	ling of qu	uestion	1															
1985	D -tt-	•														Further information		
	D - strateg ere any con		R&D coop	erations	with othe	er compar	nies?											
						no		[1]										
Time	span of	variable	e															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
			WEST															
No.	Name		_	Label									_	_	Survey	period	Survey freque	encv
140.	Name			Laber											Jaivey	period	Jaivey hequi	СПСУ
3.9.13	3) fues13			R&D coc	peration	s with oth	ner compa	anies							West 1	1985		onc
Word	ling of qu	uestion																
1985																Further information		
	. D - strateg ere any con		R&D coop	erations '	with othe	er compar	nies?											
						yes][1]										
Time	span of	variable	e															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
			WEST															
No.	Name	•		Label	•						•		-	-	Survey	period	Survey freque	ency
3.9.1	1) fues14			R&D coc	peration	s with oth	ner compa	anies with	n the sam	e range o	f product	s			West 1	1985		onc
Word	ling of qu	uestion																
1985																Further information		
VII. R&	. D - strateg ere any con		R&D coop	erations	with othe	er compar	nies?											
If yes:	ose compar] _[1]								
5 (110	- Journal		Junic	2.11.60 01	p. 30000] (-)								
Time	span of	variable	e															

No. Name Label Survey period	Survey frequency

1995

1996 1997

1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994

WEST

1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
			MECE														
			WEST														
No.	Name			Label											Survey	period	Survey frequency
INO.	name			Labei											Survey	period	Survey freq

3.11 Sales structure of product innovations

No.	Name			Label											Survey	period	Survey frequenc	У
3.11.1	1) avp1			share of	new prod	luct in to	tal revenu	ue in %							West 1	1986		once
Word	ling of q	uestion																
	8 0. 9																	
1986 VI Sale	es structur	e of nrodi	ıct innov	<i>y</i> ations												Further information		
Produc	ts that we	re newly t	aken int		luct progr	am since	business	year 198	1 had a s	hare of [.] to the v	whole						
sales o	f the produ	uct line in	1986				%											
Time	span of	variable	2															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
				WEST														
NI-	Nama	_	_	Labal	_	_	_	_	_	_	_	_	_	_	C		C	
No.	Name			Label											Survey	period	Survey frequenc	У
2 11 1	2) 21/22		l					1.6							Most 1	1000		0000
3.11.2	2) avp2			sales of i	new prodi	ucts in ag	griculture	and fores	stry						West 1	1986		once
Word	ling of q	uestion																
1986																Further information		
VI. Sale	es structur															raterer information		
	the last 5 v								ge among									
			_					Í		fishing	industru							
1			[1] agric	ulture and	alorestry					IISTIIIII	industry							
Time	span of	variable	è															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
				WEST														
No.	Name			Label											Survey	period	Survey frequenc	У
			ı															
3.11.3	3) avp3			sales of r	new prod	ucts in fis	shing sect	or							West 1	1986		once
Word	ling of q	uestion																
1006																Fronth as information		
1986 VI. Sal e	es structur	e of prod	uct innov	ations												Further information		
_	the last 5 v								ge among									
a, doin	iestic secti					ilches wi	timi tile s	ectory										
1			agricult	ure and fo	restry					[1] fishii	ng industr	У						
Time	span of	variable	<u> </u>															
				1000	1007	4000	1000	1000	1001	1002	1002	1004	1005	1006	4007			
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
				WEST														
No.	Name			Label											Survey	period	Survey frequenc	У

Wording of question

	ne last 5 y	ears the	share of	rations sales of th the applic		-			re sufficie	nt)					
1			agricultu fishing i	ure and for ndustry	restry					_%					
Time s _l															
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997

No.	Name	Label	Survey period	Survey frequency

WEST WEST

Label

Label

West 1986

Survey period

Survey period

once

Survey frequency

Survey frequency

Wording of question

No.

No.

Name

Name

During t	s structure he last 5 y estic secto	ears the	sales of tl	nese new				_	e among						
3			rubber ir glass ind							oil indus plastics i ceramics	-				
Time s	pan of v	variable													
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997

3.11.10)	avp8			sales of r	new prod	ucts in oil	industry								West 1	1986	once
Wordin	ng of qu	uestion															
	ne last 5 y	ears the	sales of t e tick off	these new the applications that the theory the theory the the the theory the theory the	cable bra				e among	[1] oil ind						Further information	
Time s	pan of	variable	glass ind stone ar		ndustry						industry						
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

3.11.11)	avp9			sales of r	new prod	ucts in the	e rubber i	ndustry							West 1	1986	once
Wordin	ng of qu	estion															
1986																Further information	
VI. Sales	structure	of produ	uct innov	ations													
During th	ne last 5 y	ears the s	sales of t	hese new	products	were dis	tributed o	n averag	e among								
a) dome:	stic secto	rs (please	tick off	the applic	cable bra	nches wit	hin the s	ector)									
3			[1] rubb glass inc	l industry er industry lustry nd earth in	У					oil indus plastics i ceramics							
Time s	pan of v	/ariable															
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

No.	Name	Label	Survey period	Survey frequency

Label

Label

West 1986

Survey period

Survey period

once

Survey frequency

Survey frequency

Wording of question

No.

No.

Name

Name

	ne last 5 y	rs (please	chemica rubber in glass ind	hese new the applic I industry ndustry	able bra			_	e among	oil indus [1] plasti	try cs industr industry	-			
Time s	pan of v	/ariable)												
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997

3.11.13)	avp11			sales of r	new prod	ucts in gla	ıss indust	ry							West 1	.986	once
Wordin	ng of qu	uestion															
	ne last 5 y	ears the	sales of te tick off chemica rubber i	vations these new the application al industry industry industry and earth in	cable bra					oil indus plastics i						Further information	
Time s	pan of v	/ariable	9														
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

3.11.14)	avp12			sales of r	new prod	ucts in the	e ceramic	s industr	У						West 1	1986	once
Wordin	ng of qu	uestion															
_	ne last 5 y	rears the	sales of t e tick off chemica rubber i glass inc	these new the applications of industry ndustry	cable bra					oil indus	•	stry				Further information	
Time s	pan of v	variable	2														
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

[1] me&fit&fadation industry

During the last 5 years the sales of these new products were distributed on average among

iron and steel producing industry

a) domestic sectors (please tick off the applicable branches within the sector)

			foundry	industry						drawing	plant sect	or			
Time sp	oan of v	ariable													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
				WEST											

Wording of question

1986 VI. Sales During the a) domes	ne last 5 y	ears the s	sales of th	hese new	-				e among						
4				steel prod dry indust		dustry				metal produced the details and the details and the details and the details are not as the d		-			
Time s	pan of v	/ariable													
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997

No.	Name			Label											Survey	period	Survey frequency	1
3.11.20)	avp17			sales of r	new prod	ucts in dr	awing pla	nt sector							West 1	1986		once
Wordi	ng of qu	uestion																
_	ne last 5 y	ears the	sales of e tick of	these new f the applic d steel pro- y industry	cable bra	nches wit						industry sector						
Time s																		
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			

Wording of question

1986																Further information
VI. Sales	structure	e of produ	uct innov	ations												
				sales of th					re sufficie	ent)						
a) dome	stic secto	rs (please	e tick off	the applic	cable bra	nches wit	hin the s	ector)								
4			metal pr foundry	steel production industry plant sect	industry	dustry				_%						
Time s	pan of v	variable	è													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
				WEST												

No.	١	Name				Label											Survey	period	Survey frequency	у
		avp18 g of qu		n		sales of r	new prod	ucts in ste	eel constr	uction ind	dustry						West 1	1986		once
Duri	ales sing the		ears th	e sale	es of th ck off t steel	ations nese new the applic construct	ion indus	nches wit		ector)	machine	building	industry ocessing (equipmer	nt-sector			Further information		
Tim		an of 1983	variab 1984		1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
						WEST														

No.	Name	Label	Survey period	Survey frequency
		2000.	Suite period	Jan vey megaeriey

No. Name	Label	Survey period	Survey frequency
3.11.26) avpproz5	share of new products sold to steel construction industry etc. in total sales of new products	West 1986	once
Wording of question			
1986		Further information	
VI. Sales structure of produc	t innovations		
During the last 5 years the sh	are of sales of these new products were (estimates are sufficient)		
	tick off the applicable branches within the sector)		
m v	teel construction industry nachine building industry ehicle building industry ffice and data processing equipment-sector		
Time span of variable	Seite 158		

1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
				WEST											

Label

No.

Name

Survey period

Survey frequency

Wording of question

During t	s structure he last 5 y estic secto	ears the	sales of tl	nese new	7			_	e among						
6				rical engin et)/ meta							ches sect quipment		sector		
Time s	pan of v	variable													
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997

No.	Name			Label											Survey	period	Survey frequency	
3 11 28	avp23			sales of r	now prod	ucts in fin	o mochar	nics ontic	es watche	os soctor					West 1	986		once
5.11.20	avpzs			Sales Of I	iew prou	ucts III IIII	e mechai	iics, optic	s, waterie	es sector					MEST	.960		Office
Word	ng of qu	uestion																
1986																Further information		
VI. Sale	structure	e of prod	uct inno	vations														
_				these new					e among									
a) dom	estic secto	rs (pleas	e tick off	the applic	cable bra	nches wit	hin the s	ector)										
6			alactric	al anginoo	ring			[1] fine n	aachanice	ontics	watches s	octor						
6			#	al enginee eet)/ meta			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				watches s quipment		sector					
			11011 (311	ectif mete	ii goods			inistrative	.1163, 60 43,	Sports C	quipinent	, jeven y	300001					
Time s	span of	variable	е															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
1982	1983	1364	1985	1980	1987	1988	1909	1990	1991	1992	1993	1994	1993	1990	1997			
				WEST														

3.11.29) avp24	1		sales of r	new produ	ucts in iro	n (sheet),	/ metal go	oods						West 1	1986	once
Wording of o	question															
1986 VI. Sales structu During the last 5 a) domestic sect	years the	sales of the contract of the c	hese new	cable brai	nches wit	hin the se	ector) fine mec	hanics, o _l	ptics, wat , sports ec			sector			Further information	
Time span of																
1982 1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

Further information

[1] paper industry

Seite 161

During the last 5 years the sales of these new products were distributed on average among

a) domestic sectors (please tick off the applicable branches within the sector)

timber industry

printing industry

1986

7

VI. Sales structure of product innovations

1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
				WEST											

Wording of question

1986 VI. Sales During th a) domes	ne last 5 y	rears the sors (please	sales of t e tick off timber ii	hese new the applic	able bra	nches wit		ector)	e among						
Time s _l	pan of v	variable	2												
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997

No.	Name	Label	Survey period	Survey frequency

Survey period

Survey period

Survey frequency

Survey frequency

Wording of question

3.11.35) avpproz**7**

No.

No.

Name

Name

Label

Label

During t	s structure he last 5 y estic secto	ears the s	share of s	ales of th					re sufficie	nt)					
7			timber ir paper ind printing i	dustry					_%						
Time s	span of v	/ariable)												
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997

VI. Sales structure of product innovations During the last 5 years the sales of these new products were distributed on average among a) domestic sectors (please tick off the applicable branches within the sector) 8	3.11.36) Wordin		estion		sales of i	new prod	ucts in lea	ither fabri	ication in	dustry						West 1	1986	once
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	VI. Sales During that a) domes	e last 5 y	ears the s	sales of te tick off	these new the applicates the same the same the s	cable bra	nches wit	hin the se	ector)								Further information	
					1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

3.11.37) avp30 sales of new pr	oducts in the textile industry			West 2	1986	once
Wording of question						
1986					Further information	
VI. Sales structure of product innovations						
During the last 5 years the sales of these new produ						
a) domestic sectors (please tick off the applicable b	ranches within the sector)					
8 leather fabrication indus	try [1] textile industry	<i>'</i>				
clothing industry						
Time span of variable						
Time span of variable						
1982 1983 1984 1985 1986 1987	7 1988 1989 1990 1991	1992 1993	1994 1995	1996 1997		
WEST						

9

Time span of variable

food industry

[1] beverage industry

tobacco industry

Seite 165

1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
				WEST											

3.11.42)	avp34			sales of r	new prod	lucts in to	bacco inc	dustry							West 1	.986	one
Wordin	g of qu	uestion															
1986 VI. Sales s During the a) domest	e last 5 y	rears the sars (please	ales of th tick off the	nese new the applic	cable bra		thin the s									Further information	
Time sp	an of v	variable															
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
No.	Name			Label											Survey	period	Survey frequency
3.11.43) Wordin				share of	new pro	ducts sold	l to food i	industry e	etc. in tota	al sales of	new prod	ducts			West 1	.986	one
1986 VI. Sales s During the a) domest	e last 5 y tic secto	rears the sirs (please	hare of s tick off food indo beverage tobacco	ales of th the applications ustry industry	cable bra				re sufficie	ent)						Further information	
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
No.	Name			Label											Survey	period	Survey frequency
3.11.44) a		uestion		sales of r	new prod	lucts in bu	uilding inc	dustry							West 1	.986	one
1986 VI. Sales s During the a) domest	e last 5 y tic secto	rears the sars (please	ales of th tick off [1] buildi	nese new	cable bra				ge among							Further information	
Time sp	1983	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

No.	Name	Label			Curron	noriod	Curvey fragueses
IVO.	Ivaille	Label			Survey	period	Survey frequency

WEST

Wording of question

1986 VI. Sales During the a) dome	ne last 5 y	ears the	share of	sales of th					re sufficie	ent)					
10 Time s	nan of v		building	industry				_%							
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
				WEST											

	No.	Name			Label											Survey	period	Survey frequency	y
		avp36			sales of I	new prod	ucts in co	mmerce								West 1	1986		once
1	During t		ears the	sales of t	these new	cable bra		hin the so			mail serv	rice secto	r				Further information		
	Time s	pan of 1983	variabl	e 1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
					WEST														

No.	Name	Label	Survey period	Survey frequency
			, , , , , , , , , , , , , , , , , , ,	

Seite 169

Time span of variable

1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
				WEST											

	avp40			of new pro	ducts in in	surance ir	ndustry							West 1	.986		once
	ilg or qu	Jestion													- I with a marking		
During t	he last 5 y	ears the	uct innovations sales of these retick off the aparter of the apart	ew produc	anches wi		sector)								Further information		
	pan of v						:220										
1982	1983	1984	1985 198 WES		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
No.	Name		Lab	el										Survey	period	Survey frequence	су
	avppro		in to	of new pro al sales of r			institutes	s, insuran	ces					West 1	.986		once
			uct innovation					CO. 1.							Further information		
a) dome			share of sales on the ap					re sufficie	nt)								
12			credit sector insurance indu	stry			_%										
Time s	pan of v	variable	2														
1982	1983	1984	1985 198		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
			WES														
No.	Name		Lab	وا										Survey	period	Survey frequence	су
					ducts in ap	poartment	rental se	ector				-				Survey frequenc	once
3.11.53)	Name avp41 ng of qu	uestion	sales	el of new pro	ducts in ar	opartment	t rental se	ector						Survey West 1		Survey frequenc	
3.11.53) Wordi	avp41		sales	of new pro	ducts in ar	opartment	t rental se	ector						West 1		Survey frequence	
3.11.53) Wordin 1986 VI. Sales During the	avp41 ng of qu s structure he last 5 y	e of prod	sales	of new pro	ts were dis	stributed o	on averag							West 1	.986	Survey frequence	
3.11.53) Wordin 1986 VI. Sales During the	avp41 ng of qu s structure he last 5 y	e of prod years the ors (pleas	sales uct innovations sales of these r	of new pro	ts were dis r anches wi	stributed o	on averag sector)			у				West 1	.986	Survey frequence	
3.11.53) Wordin 1986 VI. Sales During tha) dome	avp41 ng of questions of a structure he last 5 yestic secto	e of prod years the ors (pleas	sales uct innovations sales of these re tick off the ap	of new pro	ts were dis r anches wi	stributed o	on averag sector)	ge among		·y				West 1	.986	Survey frequence	
3.11.53) Wordin 1986 VI. Sales During tha) dome	avp41 ng of qu s structure he last 5 y	e of prod years the ors (pleas	sales uct innovations sales of these re tick off the ap	of new pro	ts were dis r anches wi	stributed o	on averag sector)	ge among		1993	1994	1995	1996	West 1	.986	Survey frequence	
3.11.53) Wordin 1986 VI. Sales During that dome	avp41 ng of questive structure he last 5 yestic secto	e of prodivers the ors (please	sales uct innovations sales of these re tick off the ap [1] appartment	of new production of plicable brain trental second for the second	ts were dis r anches wi	stributed o	on averag sector)	e among hospitali	ty industr		1994	1995	1996	West 1	.986	Survey frequence	
3.11.53) Wordin 1986 VI. Sales During that dome	avp41 ng of questive structure he last 5 yestic secto	e of prodivers the ors (please	sales uct innovations sales of these retick off the appartment	of new production of plicable brain trental second for the second	ts were dis r anches wi	stributed o	on averag sector)	e among hospitali	ty industr		1994	1995	1996	West 1	Further information		once
3.11.53) Wordin 1986 VI. Sales During that) dome	avp41 ng of questive structure he last 5 yestic secto	e of prodivers the ors (please	sales uct innovations sales of these retick off the appartment	of new production of plicable brit rental second	ts were dis r anches wi	stributed o	on averag sector)	e among hospitali	ty industr		1994	1995	1996	West 1	.986	Survey frequence	once
3.11.53) Wordin 1986 VI. Sales During that is a dome. 13 Time s 1982 No. 3.11.54)	avp41 ng of questions structure he last 5 yestic sector 1983 Name	variable	sales uct innovations sales of these re tick off the ap [1] appartment 2 1985 1985 Labe sales	of new production of plicable brit rental second	ts were dis ranches wi	stributed o	on average sector)	e among hospitali	ty industr		1994	1995	1996	West 1	Further information period		once
3.11.53) Wordin 1986 VI. Sales During tha a) dome 13 Time s 1982 No. 3.11.54) Wordin	avp41 ng of questions structure he last 5 yestic sector 1983	variable	sales uct innovations sales of these re tick off the ap [1] appartment 2 1985 1985 Labe sales	of new production of plicable branch trental second control of the	ts were dis ranches wi	stributed o	on average sector)	e among hospitali	ty industr		1994	1995	1996	1997 Survey	Further information period 986		once
3.11.53) Wordin 1986 VI. Sales During that a) dome 13 Time s 1982 No. 3.11.54) Wordin 1986 VI. Sales During that a)	avp41 ng of questions structure he last 5 yestic sectors 1983 Name avp42 ng of questions structure he last 5 yestic sectors he last 6 yestic sec	variable 1984 uestion	sales uct innovations sales of these re e tick off the ap [1] appartment WES Label sales uct innovations sales of these re	of new productive plicable brack trental second for the productive	ts were distracted and the state of the stat	1989 cospitality i	on average sector) 1990 industry	hospitali	ty industr		1994	1995	1996	1997 Survey	Further information period		once
3.11.53) Wordin 1986 VI. Sales During that a) dome 13 Time s 1982 No. 3.11.54) Wordin 1986 VI. Sales During that a)	avp41 ng of questions structure he last 5 yestic sectors 1983 Name avp42 ng of questions structure he last 5 yestic sectors he last 6 yestic sec	variable 1984 uestion e of producers the ors (please	sales uct innovations sales of these re tick off the ap [1] appartment WES Label sales	of new productive plicable branch productive productive productive plicable branch productive plicable productive plicable branch productive plicable plicable productive plicable productive plicable plicable plicable productive plicable p	ts were distracted with the second se	1989 cospitality i	1990 industry	hospitali	1992	1993	1994	1995	1996	1997 Survey	Further information period 986		once
3.11.53) Wordin 1986 VI. Sales During that a) dome 13 Time s 1982 No. 3.11.54) Wordin 1986 VI. Sales During that a) dome	avp41 ng of questions structure he last 5 yestic sectors 1983 Name avp42 ng of questions structure he last 5 yestic sectors he last 6 yestic sec	variable 1984 uestion e of producers the ors (please	sales uct innovations sales of these re e tick off the ap 1985 198 WES Label sales uct innovations sales of these re e tick off the ap 2	of new productive plicable branch productive productive productive plicable branch productive plicable productive plicable branch productive plicable plicable productive plicable productive plicable plicable plicable productive plicable p	ts were distracted with the second se	1989 cospitality i	1990 industry	te among hospitali	1992	1993	1994	1995	1996	1997 Survey	Further information period 986		once
3.11.53) Wordin 1986 VI. Sales During than dome 13 Time s 1982 No. 3.11.54) Wordin 1986 VI. Sales During than dome 13	avp41 ng of questions structure he last 5 yestic sectors 1983 Name avp42 ng of questions structure he last 5 yestic sectors he last 6 yestic sec	variable 1984 uestion e of producers the ors (please	sales uct innovations sales of these re tick off the ap 1985 198 WES wet innovations sales of these re tick off the ap appartment re	of new productive plicable branch productive productive productive plicable branch productive plicable productive plicable branch productive plicable plicable productive plicable productive plicable plicable plicable productive plicable p	ts were distracted with the second se	1989 cospitality i	1990 industry	te among hospitali	1992	1993	1994	1995	1996	1997 Survey	Further information period 986		once

WEST WEST

share of new products sold to appartment rental sector and hospitality industry in total sales of new products

West 1986

once

Wording of question

1986 VI. Sales During th a) domes	ne last 5 y	ears the s	share of	sales of th					re sufficie	nt)					
Time sp	pan of v		hospital	nent rental				_%							
1982	1983	1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997

1992 1993 Seite 174

1994

1995

1996

1997

1982

1983

1984

1985

1986

1987

1988

1989

1990

1991



No.	Name			Label											Survey	period	Survey frequency	
	avp45	uestion		sales of r	new prod	ucts to pr	ivate hou	seholds							West 1	1986		once
During th a) domes	ne last 5 y stic secto	rs (please	sales of t e tick off [1] priva	vations hese new the applic te househ	cable bra				e among							Further information		
1982	1983	variable 1984	1985	1986 WEST	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			

Survey period

Survey frequency

Label

No.

Name

															,	•	, ,	,
3.12.1)	ieb1			no chan	ges in pro	duct strat	egy								West 1	1987		once
Wordii	ng of qu	uestion																
1987																Further information		
VII. Inno	vation st	rategy ar	nd Europe	ean Single	e Market													
The reali	zation of	the Euro	pean Sing	le Marke	t in 1992 t	riggers re	quireme	nts to adj	ustment	in various	function	al areas						
of the co	mpanies	which ma	ay also ha	ve effect	s on the o	perationa	al innovat	ion strate	gy.									
Which of	the follo	wing stat	tements a	pplies (m	nultiple an	swers po	ssible)											
product	strategy			_														
				[1]No sig	gnificant c	hanges e	xpected											
Time s	pan of	variable	e															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
					MECE													
					WEST													

No.

Name

Label

West 1987

Survey period

once

Survey frequency

Wording of question

1987 VII. Innov The realize of the co	zation of mpanies	the Europ which ma	ean Sing y also ha	le Marke ve effect	t in 1992 t s on the o	perationa	al innovat			in various	function	al areas				
product		ollowing statements applies (multiple answers possible) gy [1] More standardised products to reduce unit costs necessary														
Time sp	pan of v	variable														
1982	1983	1984	1985	1986	1987 WEST	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	

3.12.3)	ieb3			more dif	ferntiatio	n within a	array of pi	roducts							West 1	1987	once
Wordir	ng of qu	uestion														Further information	
VII. Innov The realized of the co	zation of mpanies the follo	the Euro which ma	oean Sing ay also ha	le Marke ive effect applies (m	e Market t in 1992 to s on the o sultiple an e country of to the cor	perationa swers po	il innovat ssible) mer spec	ion strate	egy.				ay of produ	ucts			
Time sp	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
					WEST												

No.	Name			Label											Survey	/ period	S	urvey frequ	ency	
	⁴⁾ ieb4 ling of qu	uestion		no chan	ges in pro	duction s	trategy								West 2	1987			on	ice
The re of the Which	novation st alization of companies of the follo ction strate	the Euro which ma wing stat	pean Sing ay also ha	gle Marke ave effect applies (m	t in 1992 s on the c	perational swers po	al innovat ssible)			in various	s function	al areas				Further information				
Time	span of	variable 1984	1985	1986	1987 WEST	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997					

3.12.6)	ieb6			expansion	on of dom	estic pro	duction ca	pacity							West 1	1987	once
Wordin	ng of qu	uestion															
1987				CiI-	. 0.0											Further information	
VII. Innov			-			riagore r	auiromo										
The realize of the co																	
Which of	-		-			•		ion strate	87.								
Time sp				[1] expa	nsion of d	omestic p	production	n capacity	, necessa	ry							
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
					WEST												

Label

No.

Name

3.12.7)	ieb7			relocatio	on of prod	uction to	EC area								West 1	.987	once
Wordin	ng of qu	estion															
1987																Further information	
VII. Inno																	
The realize										in various	function	al areas					
of the co	mpanies	which ma	ay also ha	ve effect	s on the o	perationa	al innovat	ion strate	egy.								
Which of	the follo	wing state	ements a	ipplies (m	ıultiple an	swers po	ssible)										
producti	on strate																
		- partial	relocatio	n of prod	uction												
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[1] to EC to other		imely			_									
Time s _l	pan of v	/ariable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
					WEST												

Survey period

Survey frequency

Label Survey period Survey frequency No. Name

West 1987

Survey period

Survey frequency

once

Wording of question

Name

No.

Label

1987																Further information
VII. Inno	vation str	ategy an	d Europe	an Single	Market											
The realiz	zation of t	the Europ	ean Sing	le Market	t in 1992 t	riggers re	equireme	nts to adj	ustment	in various	function	al areas				
of the co	mpanies	which ma	ıy also ha	ve effects	s on the o	perationa	al innovat	ion strate	gy.							
Which of	the follow	wing state	ements a	pplies (m	ultiple an	swers po	ssible)									
producti	on strate	gy														* Dataset does not contain information about the
		- partial	relocatio	n of prod	uction			exact regions where the production was partially								
								relocated								
			to EC are													
	l		[1] to oth	ner areas	, namely _											
	r			l												
Time s	pan of v	ariable)													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
					WEST											

No.	Name			Label										Survey	period	Survey frequency	
	9) ieb9 cooperation with other companies from EC West													West 1	.987	once	
Wordi	ng of qu	uestion															
The real of the co	ovation striction of ompanies of the follo	the Euro which ma wing stat	pean Sing ay also ha	le Marke ve effect pplies (m	t in 1992 t s on the o	perationa swers pos	al innovat ssible)	ion strate	egy.			al areas				Further information	
Time s	pan of v	variable	e														
1982	1983	1984	1985	1986	1987 WEST	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

3.12.10)	10) ieb10 no changes in distribution strategy													West 1	1987		
Wordin	ig of qu	estion															
The realiz of the cor Which of	Innovation strategy and European Single Market The realization of the European Single Market in 1992 triggers requirements to adjustment in various functional areas of the companies which may also have effects on the operational innovation strategy. Which of the following statements applies (multiple answers possible) Distribution strategy [1] No significant changes expected														Further information		
Time sp	oan of v	/ariable	2														
1982	1983	1984	1985	1986	1987 WEST	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		

once

Wording of question

1987																Further information
VII. Inno	vation sti	rategy an	d Europe	an Single	Market											
The reali	zation of	the Europ	oean Sing	le Marke	t in 1992 t	riggers re	equireme	nts to adj	ustment	in various	function	al areas				
of the co	mpanies	which ma	ay also ha	ve effect	s on the o	perationa	al innovat	ion strate	gy.							
Which of	the follo	wing stat	ements a	pplies (m	ultiple an											
Distribut	the following statements applies (multiple answers possible) tion strategy - Distribution of products in EC is scheduled via															
	- Distribution of products in EC is scheduled via															
			distribut	ion syste	nternal dis ms of coo titutions o											
Time s	pan of v	/ariable	9													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
					WEST											

No.	Name			Label											Survey	period	Survey frequency
3.12.12)	ieb12			distribut	ion in EC l	oy distribi	ution syst	ems of co	ooperatin	g compar	nies				West 1	1987	once
Wordin	ng of qu	uestion															
1987																Further information	
VII. Innov	vation st	rategy an	d Europe	an Single	Market												
The realiz	zation of	the Europ	pean Sing	le Marke	t in 1992 t	riggers re	quiremer	nts to adj	ustment	in various	function	al areas					
	•		•		s on the o	•		on strate	gy.								
			ements a	pplies (m	ultiple an	swers pos	sible)										
Distribut	ion strate	•															
		- Distrib	ution of p	roducts i	n EC is sch	neduled v	a										
			lovnansis	n of into	raal distrik	aution fac	ilitios										
			1		rnal distrib stems of o			nies in se	weral me	mher sta	tac						
					titutions o							nnanies)					
			assignin	ent or ms	titutions c	outside tii	e own se	ctor (proc	adetion o	Heriteu se	vice con	iipailies <i>j</i>					
Time sp	nan of v	variable	2														
Time 5	Juli Oi v	variable	•														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
					WEST												

No. Name	Label	Survey period	Survey frequency
3.12.13) ieb13	distibution in EC by assignment of institutions outside the own sector	West 1987	once

Wording of question

1987			15	C' I -	D.C II - A											
	ovation st ulization of		-			riggers re	equireme	nts to adj	ustment	in various	function	al areas				
	companies					•		ion strate	gy.							
	of the following statements applies (multiple answers possible) ution strategy - Distribution of products in EC is scheduled via															
		expansion of internal distribution facilities distribution systems of cooperating companies in several member states														
					institutio						d service	compani	es)			
Time	span of v	variable	j													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
					WEST											

No.	Name	Label	Survey period	Survey frequency

West 1987 once

Survey frequency

Survey period

Wording of question

Name

Label

No.

3.12.14) ieb14

VII. Innovation strategy and European Single Market The realization of the European Single Market in 1992 triggers requirements to adjustment in various functional areas of the companies which may also have effects on the operational innovation strategy. Which of the following statements applies (multiple answers possible) Distribution strategy [1] intensified participation in exhibitions within EC Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST	1987															
of the companies which may also have effects on the operational innovation strategy. Which of the following statements applies (multiple answers possible) Distribution strategy [1] intensified participation in exhibitions within EC Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	VII. Inno	vation sti	ategy an	d Europe	an Single	Market										
Which of the following statements applies (multiple answers possible) Distribution strategy [1] intensified participation in exhibitions within EC Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997											in various	function	al areas			
[1] intensified participation in exhibitions within EC Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997																
[1] intensified participation in exhibitions within EC Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997																
Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	Distribut	tion strate	egy													
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997																
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997																
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	Timo si	nan of v	zriable	,												
	Tille S	ран от ч	/ai iabie	=												
WEST	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
WEST WEST WEST WEST WEST WEST WEST WEST																
						WEST										

3.12.15)	ieb15			no chan	ges in R&I	D strategy	,								West 1	1987	once
Wordin	ng of qu	uestion															
1987 VII. Inno The reali of the co Which of research	zation of impanies f the follo	the Europ which ma wing stat	pean Sing ay also ha ements a	le Marke ave effect applies (m	t in 1992 t s on the c	swers po	il innovat ssible)	ion strate				al areas				Further information	
Time s	pan of 1	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
					WEST												

No. Name	Label	Survey period	Survey frequency
3.12.16) ieb16	additional R&D staff to intensify R&D activities	West 1987	once

Wording of question

987															Further information
II. Innovation	strategy an	d Europea	an Single	Market											
he realization	of the Europ	ean Single	e Market												
f the compani	es which ma	y also hav	e effects												
hich of the fo	llowing stat	ements ap	pplies (m												
ime span c	f variable	<u>.</u>													
ime span c		1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	

Survey period

Survey frequency

Wording of question

1987	Further information
VII. Innovation strategy and European Single Market	
The realization of the European Single Market in 1992 triggers requirements to adjustment in various functional areas	
of the companies which may also have effects on the operational innovation strategy.	
Which of the following statements applies (multiple answers possible)	
research and development strategy (R&D)	
- R&D cooperations with other companies and scientific institutions	
has cooperations with other companies and scientific institutions	
[1] domestic	
from other European country	
Time span of variable	
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 19	97
WEST	

No.	Name			Label											Survey	period	Survey frequency
3.12.18) ieb18			R&D coc	p. with co	ompanies	/scientific	institutio	ons from						West 1	.987	once
				other Eu	ropean co	ountries											
Word	ing of qu	iestion															
1987																Further information	
VII. Inn	ovation str	rategy an	nd Europe	an Single	Market												
The rea	lization of	the Euro _l	pean Sing	le Marke	t in 1992 t	triggers re	quireme	nts to adj	ustment	in various	function	al areas					
of the c	ompanies	which ma	ay also ha	ve effect	s on the o	peration	ıl innovat	ion strate	gy.								
Which o	of the follo	wing stat	ements a	pplies (m	ultiple an	swers po	ssible)										
researc	h and deve	elopmen	t strategy	(R&D)													
					ther com	panies an	d scientifi	c instituti	ons								
			domesti	C													
			[1] from	other Eu	ropean co	untry											
	•		_														
Time:	span of v	/ariable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
					WEST												

3.12.19)	ieb19			creation	of R&D c	apacities	in other E	C-countr	ies						West 1	.987	once
Wordin	ng of qu	estion															
1987																Further information	
	novation strategy and European Single Market																
	lization of the European Single Market in 1992 triggers requirements to adjustment in various functional areas																
	lization of the European Single Market in 1992 triggers requirements to adjustment in various functional areas ompanies which may also have effects on the operational innovation strategy.																
Which of	ompanies which may also have effects on the operational innovation strategy. of the following statements applies (multiple answers possible)																
research	and deve	elopment	t strategy	/ (R&D)													
							[1] creat	ion of R&	D capacit	ies in oth	er countri	ies					
T:	f .	و ا وا و نسور															
Time sp	pan or v	/ariabie	3														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
					WEST												

3.13 Design strategies

Name

No.

Label

No.	Name			Label											Survey	period	Survey frequency
3.13.1) ds1			innovati	on strate	gy at dom	iestic mai	·ket: price	es as com	pared to	competit	ors			West 1	.988	onc
Word	ing of qu	uestion						·			·						
1988 VII. Des	sign strate	gies														Further information	
	pared to o		etitors ou	ır innovat	ion strat	egy in the	product	line XY is	s characte	erised							
		• higher	[1]	c market ¡	primarily	by			prices]		quality					
		• same • lower															
Time	span of	variable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST											
No.	Name			Label											Survey	period	Survey frequency
3.13.2	ds2			innovati	on strate	gy at dom	iestic mai	ket: qual	lity as com	npared to	competi	itors			West 1	.988	ond
Word	ing of qu	uestion															
1988 VII. Des	sign strate	gies														Further information	
	pared to o	our compe					product	line XY is		erised							
		on thehighersame	[1]	c market _l	primarily	by			prices			quality					
		• lower															
Time	span of	variable	:														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST											
No.	Name	-	-	Label	-	-	-	-	-	-	-	-	-	-	Survey	period	Survey frequency
3.13.3	ds3			innovati	on strate	gy at fore	ign marke	ets: price	s as comp	ared to c	ompetito	ors			West 1	.988	onc
Word	ing of qu	uestion															
1988 VII. De s	sign strate	gies														Further information	
1. Com	pared to o					egy in the	product	line XY is		erised		au alitu					
		 higher same 	[1]	ets prima	arily by				prices]		quality					
		• lower															
Time	span of	variable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST											
																<u> </u>	
No.	Name			Label											Survey	period	Survey frequency

West 1988

once

Wording of question

19		ın strateg	rios													
	_	_		titors ou	r innovat	ion strate	egy in the	product	line XY is	characte	rised					
			on forehighersame lower	[1] [2]	ets prima	rily by				prices			quality			
Ti	me sp	oan of v	ariable													
1	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
							WEST									

No.	Name			Label											Survey	period	Survey frequency
3.13.5) ds5			attitude	of custon	ners towar	rds techn	nical innov	ations/						West 1	1988	onc
Word	ing of qι	uestion															
1988 VII. De s	sign strateg	gies														Further information	
	evaluation		stomers'	attitude t	owards												
								rather o	pen [1]	_		eher res	erved [2]				
		- technic	cal innov	ations						J				J			
T:	f .	وا وا و نو و و															
Time	span of v	/ariabie	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST											
No.	Name			Label											Survey	period	Survey frequency
3.13.6	ds6			attitude	of custon	ners towar	rds techn	nical adva	ncement	S					West 1	1988	onc
Word	ing of qu	uestion															
1988 VII. De s	sign strateg	gies														Further information	
	evaluation		stomers'	attitude t	owards												
								rather o	pen [1]	,		rather re	eserved [2				
		- technic	cal advan	cements													

			- technic	cal advand	cements				rather o	pen [1]]		rather re	eserved [2]]	
Т	ime sp	an of v	variable)												
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
							WEST									

Survey period

Survey frequency

Label

No. Name

Name

No.

Label

West 1988

Survey period

once

Survey frequency

Wording of question

19	988																Further information
VI	I. Desig	gn strate@	gies														
2.	Our ev	aluation (of our cus	stomers'	attitude t	owards											
			- formal	redesign	s				rather o	pen [1]			rather re	eserved [2]]		
Ti	ime sp	pan of v	/ariable														
1	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
							WEST										

No.	Name			Label											Survey	period	Survey frequency	
3.13.8)	ds8			attitude	of custor	ners towa	rds forma	al variant	developr	nents					West 1	1988		once
	•																	
Wordi	ng of qu	uestion																
1988																Further information		
VII. Desi	gn strate	gies																
2. Our e	valuation	of our cu	stomers'	attitude t	owards													
								rather	open [1]	1		rather r	eserved [2	[] 1				
		- formal	variant d	levelopm	ents					J]				
Time s	nan of	variable	2															
Tillie 3	parror	variable																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
						WEST												

3.13.9) ds9			current i	mportan	ce of desig	gn for ma	rketing							West 1	1988	once
Wording of qu	estion															
1988															Further information	
VII. Design strateg	gies															
3. For our company	y's mark	eting of X	(Y design	has												
	- little ir	importan mportanc portance	e [2]				currently			in the fu	ture					
Time span of v	⁄ariable	е														
1982 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1	
					WEST											

Survey frequency Label Survey period No. Name

No.

Name

Name

Label

Label

Survey period

Survey period

Survey frequency

Survey frequency

Wording of question

1988 VII. Desig 3. For ou			eting of X	Y design l	nas										
		- little in	importance nportance ortance [[2]				currently			in the fut	ture			
Time s	pan of v	/ariable	2												
1982	1983	1984	1985	1986	1987	1988 WEST	1989	1990	1991	1992	1993	1994	1995	1996	1997

3.13.11) ds11			design a	ctivities d	irected at	industria	l design							West 1	1988	once
Wording of o	question	1														
1988 VII. Design strat 4. In the product		ur design a	activities a	are direct	ed at										Further information	
	- Indust	trial desigi	n					yes [1]		no [2]]					
Time span of	variabl	e														
1982 1983	1984	1985	1986	1987	1988 WEST	1989	1990	1991	1992	1993	1994	1995	1996	1997		

3.13.12) ds12 d	esign activities directed at communicational c	ocian	West 1988	once
3.13.12) U 312	esign activities directed at communicational d	sign	West 1988	Office
Wording of question				
1988 VII. Design strategies			Further information	
4. In the product line XY our design act	ivities are directed at			
- communicational		es [1] no [2]		
Time span of variable				
1982 1983 1984 1985	1986 1987 1988 1989 1990	1991 1992 1993 1994 1995 19	996 1997	
	WEST			

1993

1994

1995

1996

1997

Survey period

Survey frequency

1982

No.

Name

1983

1984

1985

1986

Label

1987

1988

WEST

1989

1990

1991

1992

IVO.	Ivaille			Label											Survey	periou	Survey heq	uency	
3.13.14)	ds14			design a	ctivities c	directed at	other de	sign							West 1	1988			once
Wordin	ng of qu	uestion																	
1988 VII. Desig 4. In the			ır design a	activities :	are direct	ted at										Further information			
		- other	design						yes [1]]	no [2]]							
Time s	pan of v	variable	е																
1982	1983	1984	1985	1986	1987	1988 WEST	1989	1990	1991	1992	1993	1994	1995	1996	1997				
						WEST.													

3.13.15)	ds15			design ta	isks are s	solved by o	designers	(internal))						West 1	1988	once
Wordin	ng of qu	uestion															
1988 VII. Desig 4. In the			r design a	activities a	are direct	ted at										Further information	
		- commi	t packagi	al design					yes		no						
			ny intern		designers	5			always [1	1]]	occasion	ally [2]					
Time s	pan of v	variable	9														
1982	1983	1984	1985	1986	1987	1988 WEST	1989	1990	1991	1992	1993	1994	1995	1996	1997		

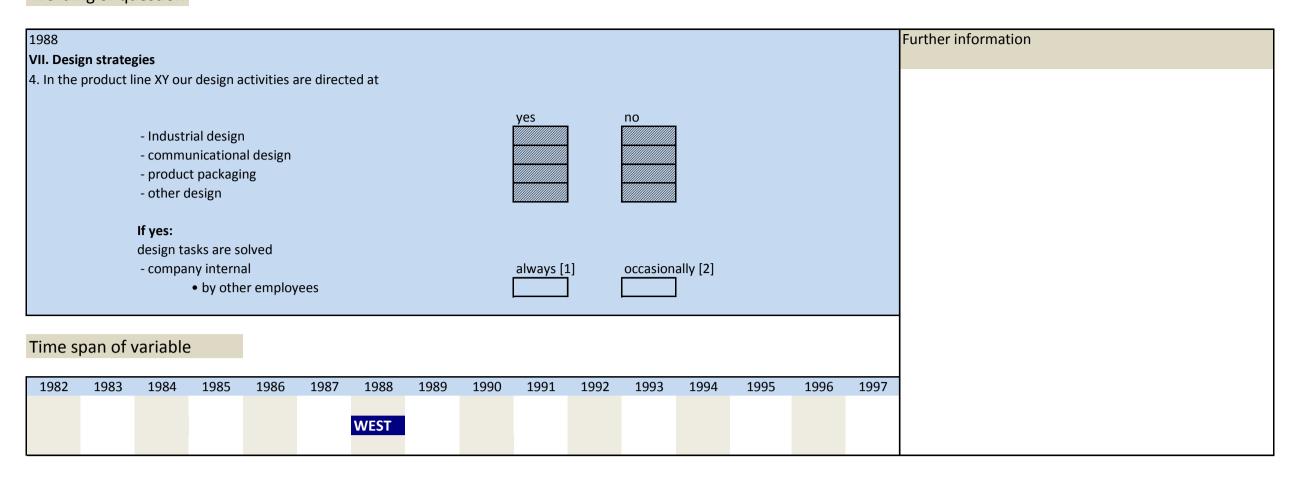
Name

No.

Survey period

Survey frequency

Wording of question



No.	Name			Label											Survey	/ period	Survey frequency
3.13.17) ds17			design ta	isks are s	olved by f	reelance	designer	s (externa	al)					West 2	1988	once
Word	ing of qu	uestion															
	0																
1988																Further information	
	sign strate @ e product l		r design a	rctivities a	are direct	ed at											
4. 111 (11)	e product i	ine XI ou	i design c	ictivities (ire direct	cuat											
		- commi	rial desigr unicationa t packagi design	al design					yes		no						
		If yes:															
			asks are sony ny extern						always [:	11	occasion	12] ville					
		- compa	•	lance des	igners				always [<u>.</u>]	Occasion						
												•					
Time	span of v	<i>y</i> ariahle	2														
-	span or v	ranabic															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST											

3.13.18) ds18	design tasks are solved by design agencies (external)	West 1988	once
Wording of question			
1988 VII. Design strategies		Further information	
4. In the product line XY our design	gn activities are directed at		

1988																Further information
VII. Desig	gn strateg	gies														
4. In the	product l	ine XY ou	r design a	ctivities a	re direct	ed at										
		- commu - produc - other d If yes: design ta - compa	t packagi lesign sks are s ny extern	al design ng olved	ies				yes always [1		occasion	ally [2]				
Time s _l	pan of v	/ariable	1													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
						WEST										

Name

Survey period

Survey frequency

Wording of question

1988 VII. Design strategies														Further information
4. In the product line XY ou	r design ad	ctivities a	re direct	ed at										
- commu - produc - other c If yes: design ta	rial design unicationa t packagir lesign sks are so ny externa • by cons	l design ng olved	gineers				yes always [1		occasion	ally [2]				
Time span of variable														
1982 1983 1984	1985	1986	1987	1988 WEST	1989	1990	1991	1992	1993	1994	1995	1996	1997	

2.42.20\	-1-20								, .						NA /	1000	
3.13.20)	as20			design ta	asks are s	solved by a	dvertisin	g agencie	es (externa	al)					West 1	1988	once
Wordin	ng of qu	estion															
1988																Further information	
VII. Desig	gn strate	gies															
4. In the	product I	ine XY ou	r design a	ctivities a	are direc	ted at											
		- commo - produc - other c If yes: design ta	asks are s iny exterr	al design ng olved	gencies (etc.			yes always [1		occasion	ally [2]					
Time s	pan of v	/ariable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
						WEST											

3.14 Marketing strategies in the '90s

Label

No. Name	Label	Survey period	Survey frequency
3.14.1) ms90j1	change in sales sit. due to competitors from West Germany	West 1989	once

Wording of question

1989																Further information
VIII. Ma	rketing st	rategies i	n the '90:	s												
	emention															
1. our sa	ales situat	ion will														
change	due to cor	mpetitors	from				cru	cially[1]		slightly[2	.]	not at all	[3]			
	- West G	Sermany														
Time s	span of v	variable														
Time s		variable	2													
Time s		variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
	span of v			1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	

West 1989

Survey period

Survey period

Survey period

once

Survey frequency

Survey frequency

Survey frequency

Wording of question

Name

No.

No.

No.

Name

Name

Label

Label

Label

In above 1. our sa	rketing sto e mentione ales situati due to cor - East Ge	ed produc on will npetitors	ct line	S			cru	ıcially[1]		slightly[2	:]	not at all	[3]		
Time s	span of v	<mark>/ariable</mark>	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
							WEST								

3.14.3)	ms90j3	}		change i	n sales sit	due to	competito	rs from E	C and we	stern Eur	ope				West 1	1989	once
Wordin	ng of qu	uestion															
1989																Further information	
VIII. Mar In above 1. our sa change d	mention les situati lue to cor	ed produ ion will	ct line from	S			cru	cially[1]		slightly[2	<u>:</u>]	not at al	[3]				
Time s	pan of v	variable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
							WEST										

3.14.4) m	ns90j4			change ii	n sales sit	. due to c	competito	rs from e	astern Eı	urope					West 1	1989	onc
Wording	g of qu	estion															
1989 VIII. Marke In above m 1. our sales change due	nentione s situati e to con	ed produ on will	ct line s from	S			cru	icially[1]		slightly[2	:]]	not at all	[3]			Further information	
Time spa				1096	1007	1000	1000	1000	1001	1002	1002	1004	1005	1006	1007		
1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997		

3.14.5) r	ms90j5	5		change i	n sales sit	. due to d	competito	rs from tl	ne US						West 1	1989	once
Wording	g of qu	uestion															
1989 VIII. Mark In above r 1. our sale change du	mentione es situati	ed produ ion will	ct line	S			cru	cially[1]		slightly[2	:]	not at all	[3]			Further information	
Time sp				1006	4007	1000	1000	1000	1001	1002	1002	1004	1005	1006	1007		
1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997		

Label

Survey period

Survey period

Survey frequency

Survey frequency

Wording of question

Name

Name

No.

No.

1989																
In abo 1. our	larketing we mention sales sitused due to de	oned ation	produc n will	t line	5			cru	ıcially[1]		slightly[2	2]	not at all	[3]		
	- Japa	n]				
Time	span o	of va	riable													
1982	2 1983	3	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997

3.14.7)	ms90j7	7		change i	n sales sit	. due to d	ompetito	rs from e	merging	econ. in S	outheast	Asia			West 1	1989	once
Wordin	ng of qu	uestion															
1989 VIII. Mar l				s												Further information	
In above 1. our sal change d	es situati	ion will					cru	cially[1]		slightly[2	:]	not at al	[3]				
	- emergi	ing econo	omies in S	outheast	Asia]				
Time sp	oan of v	variable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
							WEST										

3.14.8) ms90j8	r	necessar	y reactior	n to comp	etitors: lo	w prices							West 1	.989	once
Wording of question															
1989VIII. Marketing strategies inIn above mentioned product2. Our sales or marketing poto react to	t line													Further information	
- the competitors v		ds to			cru	cially[1]		slightly[2	2]]	not at all	[3]				
Time span of variable															
1982 1983 1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997		

Name

No.

Label

West 1989

Survey period

Survey frequency

once

Wording of question

1989 VIII. Mai In above 2. Our sa to read	mentionales or ma	ed produc	ct line												
		npetitors • higher					crı	ıcially[1]		slightly[2	:] 	not at all	[3]		
Time s	pan of v	/ariable													
1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997

No.	Namo	9			Label											Survey	/ period	Survey frequency
	ms90		on		necessar	y reactio	n to com	petitors: p	roduct in	novation	าร					West :	1989	once
In abov 2. Our	arketing ve mentic sales or r act to - the c	ned pronarketin	oduct ng pol tors w	line	ards to			cru	ıcially[1]		slightly[2	2]]	not at al	l[3]]			Further information	
Time	span o	f varia	ble															
1982	1983	198	34	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997		

3.14.11) ms90j11 necessary reaction	n to competitors: services	West 1989	once
Wording of question			
1989		Further information	
VIII. Marketing strategies in the '90s			
In above mentioned product line			
2. Our sales or marketing policy has			
to react to			
- the competitors with regards to	crucially[1] slightly[2] not	at all[3]	
• services			
Time span of variable			
1982 1983 1984 1985 1986 1987	1988 1989 1990 1991 1992 1993 1	994 1995 1996 1997	
	WEST		

Survey period Survey frequency Label No. Name

Name

Name

No.

Survey period

Survey period

Survey frequency

Survey frequency

Wording of question

Label

Label

In above	rketing st e mention ales or ma ct to	ed produ	ct line												
		mpetitors • distribu		ards to nnel strat	egies		cru	ıcially[1]		slightly[2	:] 	not at all	[3]		
Time s	pan of	variable	<u>.</u>												
1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997

2.44.42)			000
3.14.13) ms90j13 necessary reaction to c	ompetitors: advertisement/sales promotion	West 1	.989 once
Wording of question			
1989			Further information
VIII. Marketing strategies in the '90s			
In above mentioned product line			
2. Our sales or marketing policy has			
to react to			
- the competitors with regards to	crucially[1] slightly[2] not	at all[3]	
advertisement/sales promotion			
Time span of variable			
1982 1983 1984 1985 1986 1987 19	38 1989 1990 1991 1992 1993 19	994 1995 1996 1997	
	WEST		

3.14.14) ms90	14		necessar	y reactior	n to comp	oetitors: n	narket po	wer						West 1	1989	once
Wording of o	uestion															
1989 VIII. Marketing solution in above mention 2. Our sales or more to react to the control of t	ned produ	ct line olicy has with rega				cru	icially[1]		slightly[2]	not at all	[3]			Further information	
Time span of																
1982 1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997		

Survey period

Survey frequency

Wording of question

Label

Name

No.

	rketing st			s											
	ales or ma	-													
		npetitors • world		ards to rientatior	1		cru	ucially[1]		slightly[2	:] 	not at all	[3]		
Time															
rime s	pan of v	/ariabie													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
							WEST								

No.	Name			Label											Survey	period	Survey frequency
) ms90j		n	necessa	ry reactio	n to dem	and: mark	et satura	tion						West 1	1989	once
In abov		ned prod arketing emand w	uct line	s ds to			cru	icially[1]		slightly[2	:]]	not at al	I[3]]			Further information	
Time s	span of	variab	le														
1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997		

3.14.17) ms90j17	necessai	ry reaction	to demand: diffe	rentiation,	/ individ	ualisation					West 1	1989	once
Wording of question													
1989VIII. Marketing strategies in the In above mentioned product lire.2. Our sales or marketing policy to react to	ne / has		or.	ucially[1]		cliabtly[2	1	not at all	[2]			Further information	
	tion/ individua	lisation	Cr	ucially[1]		slightly[2	J	not at all	[3]				
Time span of variable 1982 1983 1984 1	985 1986	1987	1988 1989	1990	1991	1992	1993	1994	1995	1996	1997		
			WEST										

Name

No.

Survey period

Survey frequency

Wording of question

V I In 2.	above	keting str mentione les or ma t to	ed produ	ct line												
		- the der	nand wit • securit		to			cru	ucially[1]		slightly[2	:] 	not at all	[3]		
Т	ime sr	oan of v	ariable	ģ												
	1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997

No.	Name			Label											Survey	/ period	Survey frequen	су
3.14.19) Wordin				necessar	y reactio	n to dema	and: pollu [,]	tion of er	viromen	t					West 1	1989		once
1989 VIII. Mar In above 2. Our sa to read	mentione lles or ma et to - the der	ed produc	ct line olicy has h regards	s to			cru	cially[1]		slightly[2	2]]	not at all	I[3]]			Further information		
Time s	pan of v	/ariable)															
1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997			

3.14.20) ms90j20 necessary reaction	to demand: age structure of population	West	1989 once
Wording of question			
1989			Further information
VIII. Marketing strategies in the '90s			
In above mentioned product line			
2. Our sales or marketing policy has			
to react to			
- the demand with regards to	crucially[1] slightly[2]	not at all[3]	
 age structure of population 			
Time span of variable			
Time Span of Variable			
1982 1983 1984 1985 1986 1987	1988 1989 1990 1991 1992	1993 1994 1995 1996 1997	
	WEST		

Name

No.

Label

West 1989

Survey period

Survey frequency

once

Wording of question

1989 VIII. Mar In above 2. Our sa to reac	mentione les or ma	ed produc	ct line												
		mand wit • deman					cru	ucially[1]		slightly[2	e] 	not at all	[3]		
Time sp	oan of v	/ariable													
1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997

No.	Name			Label											Survey	/ period	Survey frequency	
	ms90j2			necessar	y reactio	n to dem	and: sales	market E	ast Germ	nany					West 1	1989		once
In above		ed productive productions of the production of t	ct line policy has th regards		ny		cru	cially[1]		slightly[2	<u>2]</u>	not at al	[3]			Further information		
Time s	pan of v	variable	9															
1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997			

3.14.23) ms90j23 necessary reaction	on to demand: sales market eastern Europe	West 1989	e onc
Wording of question			
1989 VIII. Marketing strategies in the '90s In above mentioned product line		Fur	ther information
2. Our sales or marketing policy has to react to			
the demand with regards tosales market eastern Europe	crucially[1] slightly[2] i	not at all[3]	
Time span of variable			
1982 1983 1984 1985 1986 1987	1988 1989 1990 1991 1992 1993 WEST	1994 1995 1996 1997	

Survey period Survey frequency Label No. Name

Label

West 1989

Survey period

Survey period

once

Survey frequency

Survey frequency

Wording of question

No.

No.

Name

Name

198	9														
VIII.	Marketing s	trategies i	n the '90s	S											
In a	bove mentior	ned produ	ct line												
	due to above				!S										
OI	r marketing s	rategy is	changed i	n			cru	ıcially[1]		slightly[2	2]	not at all	[3]		
									1		1				
	• distrib	ution/sale	es channe	IS											
Tin	ne span of	variable	<u> </u>												
1111	ie spair or	variable	-												
19	982 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
							WEST								

3.14.25) ms90j2	.5		change o	of sales st	ategy in:	product/p	orogramn	n policy						West 1	1989	once
Wording of qu	estion															
1989 VIII. Marketing str. In above mentione 3. , due to above m or marketing str. • product	ed produ nentione ategy is	ct line ed reasons changed i	s, the sale	S		cru	icially[1]		slightly[2	<u>:</u>]	not at all	[3]			Further information	
Time span of v	variable	е														
1982 1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997		

3.14.26) ms90j2	26		change c	of sales sta	ategy in:	price/ co	nditions p	olicy						West 1	1989	once
Wording of qu	uestion															
1989 VIII. Marketing st In above mention 3. , due to above or marketing st • price/	ed produ mentione	ct line ed reasons changed i	s, the sale	S		cru	cially[1]		slightly[2	:]	not at all	[3]			Further information	
Time span of	variabl	е														
1982 1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997		

		_	_	
W	est	1	9	X9

Survey period

Survey period

once

Survey frequency

Survey frequency

Wording of question

No.

Name

Name

No.

Label

Label

1989																Further information
VIII. Ma	rketing st	rategies i	n the '90s	S												
In above	mention	ed produc	ct line													
3. , due 1	to above r	mentione	d reasons	, the sale	·S											
or ma	rketing sti	rategy is o	changed i	n			cru	ıcially[1]		slightly[2	2]	not at all	[3]			
									7		•		1			
	• adverti	isement/	sales pro	motion												
Time s	pan of v	variable														
4000	4000	4004	4005	4006	4007	4000	4000	4000	1001	4002	1002	1001	4005	1006	4007	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
							MECT									
							WEST									

3.14.28)	ms90j2	28		change o	of sales st	ategy in:	technical	customer	support						West 1	1989	once
Wordin	ng of qu	estion															
	mentione o above r keting str	ed produc	ct line d reasons changed i	s, the sale in	es		cru	icially[1]		slightly[2	:]	not at all	[3]			Further information	
Time s _l	oan of v	/ariable	<u>.</u>														
1982	1983	1984	1985	1986	1987	1988	1989 WEST	1990	1991	1992	1993	1994	1995	1996	1997		

3.14.29)	ms90j2	.9		change c	of sales st	ategy in:	provision	of new se	ervices						West 1	1989	once
Wordin	ng of qu	estion															
																Ir. who are information	
1989																Further information	
VIII. Mar				S													
In above																	
3. , due to					S												
or mar	keting str	ategy is o	changed i	in			cru	icially[1]		slightly[2	2]	not at all	[3]				
											7		1				
	provisi																
	(financi	ng, traini	ng, org. c	consulting)												
Time sp	oan of v	/ariable)														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
							WEST										
																<u> </u>	

1989 VIII. Marketing strategies in the '90s In above mentioned product line 3. , due to above mentioned reasons, the sales or marketing strategy is changed in crucially[1] slightly[2] not at all[3] • delegation of marketing tasks to other companies Time span of variable

1993

1994

1995

1996

1997

Survey period

Survey frequency

1984

1985

1982

1983

1986

Label

No.

Name

1987

1989

1988

1990

1991

1992

WEST 3.15 Research and Development in the new Laender Name Label Survey period Survey frequency No. 3.15.1) fue_nb1 West 1990 once previous placing of R&D orders to companies/institutes in the new Laender Wording of question 1990 Further information VII. Research and Development in the new Laender yes [1] no [2] 1. Have you already placed R&D orders to companies or institutes in the new Laender? Time span of variable 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1982 WEST Survey frequency Label Survey period No. Name 3.15.2) fue_nb2 West 1990 once planned placing of R&D orders to companies/institutes in the new Laender (current year) Wording of question 1990 Further information VII. Research and Development in the new Laender yes [1] no [2] 2. Will you utilise a part of your innovation expenditures for R&D orders to companies or institutes in the new Laender this year? Time span of variable 1983 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1982 1984 1985 1997 WEST

Seite	199

3.15.3)) fue_nb	3			age share		nno. expe	end. spen	t on R&D	orders					West 1	1990	once
Wordi	ing of qu	uestion		in the ne	ew Laende	er											
																le u · c · ·	
1990 VII. Res e	earch and	Develop	ment in t	he new L	.aender											Further information	
2. Will v	ou utilise	a part of	vour inno	vation ex	nenditure	Σ ς				yes		no					
for R8	&D orders ler this yea	to compa															
	what perc				nnovation	ı expendit	ures are	you			%						
Time s	span of v	variabl	e														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
								WEST									
3.16	Econor	nic im	pact o	f inno	vation												
No.	Name			Label											Survey	period	Survey frequency
3.16.1)) we1			innovati	on object	ive: rever	nue								West 1		once
Wordi	ing of qι	uestion													East ar	nd West 1996 to 2003	irregula
1990																Further information	
2. With	onomic im the innova ere pursui	ations im	plemente	d in the I	•												
we we	ere pursui	ng the io	mowing go	oais iii ou			11	increase	v(5)		rotonti	on/stabilis	ration[2]				
						no goal[:	1.j	increase	[2]	7	retenti	on/stabilis	1				
	revenue						J			J							
a) With	nomic imp the innova	ations im	plemente														
we we	ere pursui	ng the fo	llowing go	oals in ou		y: no goal[:	11		increase	·[2]		retention	n[3]				
	revenue					800.[.	-,]]]				
Time s	span of v																
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
								WEST						WEST EAST			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
			WEST EAST		WEST EAST												
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
No.	Name	_	_	Label	_	_		_		_	_	_		_	Survey	y period	Survey frequency
NO.	Name			Label											Julvey	periou	Survey frequency
3.16.2)	we2			innovati	on object	ive: profit	:								West 1 East an	1990 nd West 1996 to 2003	onco irregula
Wordi	ing of qu	uestion															
1990 VIII. Eco	onomic im	pact of i	nnovation	1												Further information	
2. With	the innova ere pursui	ations im	plemente	d in the I													
						no goal[:	1]	increase	e[2]		retenti	on/stabilis	sation[3]				
	profit					0.5[.]]				
	2003 nomic imp the innova			d in the l	ast 5 year	.c											

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retention[3]

increase[2]

we were pursuing the following goals in our company:

no goal[1]

	profit														
Time s	pan of v	variable													
1982	1983	1984	1985	1986	1987	1988	1989	1990 WEST	1991	1992	1993	1994	1995	1996 WEST EAST	1997
1998	1999		2001 WEST EAST		2003 WEST EAST	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

No.	Name			Label											Survey	period	Survey frequency
2.46.2	2														147 1 4	000	
3.16.3	we3			innovati	on object	ive: mark	et share								West 1		once.
															East ar	nd West 1996 to 2003	irregula
Wordi	ng of qu	uestion															
1000																Fth : f	
1990	nomic im	nact of i	nnovation													Further information	
	the innova				ast 5 year	'S											
	ere pursuii																
									101								
						no goal[:	1]	increase	2[2]		retentio	on/stabilis	sation[3]				
	market s	hare					1			1							
							,										
1996 to																	
	omic imp			ا مالم ما													
	the innova ere pursuii																
We W	ore parsan	ing the ro	mownig go		Compan	y .											
						no goal[:	1]		increase	[2]		retention	ո[3]				
							1			1							
	market s	nare					J			J							
Time s	pan of v	variabl	е														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
								WEST						WEST			
								WEST						EAST			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
			WEST		WEST												
			EAST		EAST												
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
2017	2010	2010	231,	2310	2313	2020				2021		2020	2327	2320	_0_0		

No. Name	Label	Survey period	Survey frequency
3.16.4) we4	innovation objective: competitiveness	West 1990	once
WC I	imovation objective: competitiveness	East and West 1996 to 2003	irregular
Wording of question			
		E distantation and a	
1990 VIII. Economic impact of innovation	n	Further information	
2. With the innovations implemente	ed in the last 5 years		
we were pursuing the following g	oals in our company:		
	no goal[1] increase[2] retention/stabilisation[3]		
competitiveness			
competitiveness			
1996 to 2003			
VI. Economic impact of innovation a) With the innovations implemented			
we were pursuing the following g			
	no goal[1] increase[2] retention[3]		
competitiveness			
Time span of variable			
1982 1983 1984 1985	Seite 201 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 19	996 1997	

								WEST						WEST EAST	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
			WEST EAST		WEST EAST										
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

No.	Name			Label											Survey	period	Survey frequency
3.16.5	we5			innovati	on object	ive: labou	r product	ivity							West 1		once
															East ar	nd West 1996 to 2003	irregula
Wordi	ng of qu	uestion	1														
1000																e alteriteteration	
1990	nomic im	nact of i	nnovation	•												Further information	
	the innova				ast 5 year	'S											
	ere pursui																
						no goal[11	inerese	.[2]		rotontic	on /stabilia	nation[2]				
						no goal[:	Lj	increase	[2]		retentio	on/stabilis	sation[3]				
	labour p	roductivi	ty]							
1996 to	2003 I <mark>omic imp</mark>	act of in	novation														
	the innova			ed in the l	ast 5 vear	·s											
	ere pursui																
	•	Ü			•	•											
						no goal[:	1]		increase	[2]		retention	ո[3]				
	labour p	roductivi	tv							1							
	idocai pi	· oaacti vi	-,							ı							
Time s	span of v	variabl	e														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
								WEST						WEST			
														EAST			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
1330	1333	2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013		
			WEST		WEST												
			EAST		EAST												
2014	2015	2016	2017	2019	2010	2020	2021	2022	2022	2024	2025	2026	2027	2029	2020		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

No.	Name			Label											Survey	period	Survey frequency
3.16.6)	we6			impact o	of innovat	ions on re	evenue								West 1	.990	once
															East ar	nd West 1996 to 2003	irregular
Wordi	ng of qu	estion															
1990																Further information	
VIII. Eco			novation													, arener mismation	
2. The rein our co			impacted	these it	ems												
iii our co	mpany as	10110 113.															
						positive[[1]		not[2]			negative	[3]				
	revenue]]				
1996 to 3	2003																
VI. Econ	omic imp																
b) The rein our co			•	d these it	ems												
in our co	inpuny as	TOHOWS.															
						positive[[1]		neutral[2	2]		negative	[3]				
	revenue]										
Time s	pan of v	/ariable	9														
				1000	1007	4000	4000	1000	1001	1003	1002	1004	1005	1000	1007		
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
								WEST						WEST			
														EAST			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
			WEST		WEST					Se	eite 202						
I																I	

			EAST		EAST										
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Survey period

Survey frequency

Name

Label

No.

Sest and West 1996 to 2003 irregular	2 16 7	7						C:								VA/oct 1	1000	
1990	3.10.7)	we/			impact c	of innovat	ions on pr	TITO										on:
VIII. Economic impact of innovation 2. The realised innovations impacted these items in our company as follows: positive[1] not[2] negative[3] profit 1996 to 2003 VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3] profit profit positive[1] neutral[2] negative[3] profit Image: positive[1] neutral[2] negative[3] profit WEST WEST WEST WEST Language WEST WEST Language WEST WEST	Wordin	ng of qu	uestion													East ar	10 West 1996 to 2003	irregui
2. The realised innovations impacted these items in our company as follows: positive[1] not[2] negative[3]	1990																Further information	
in our company as follows: positive[1] not[2] negative[3]																		
positive[1] not[2] negative[3] profit 1996 to 2003 VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3] profit Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST WEST Language WEST WEST Language WEST WEST Language WEST WEST Language WEST WEST Language WEST Language WEST WEST					d these ite	ems												
profit	iii oai coi	inpany as	o ioliows.															
1996 to 2003 VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3] profit Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013							positive[1]		not[2]			negative	[3]				
1996 to 2003 VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3] profit Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013		profit																
VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3] profit Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013																		
b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3]				ma.uatia.														
in our company as follows: positive[1] neutral[2] negative[3]						ems												
Time span of variable 1982																		
Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013							nositive[11		neutral[2)]		negative	[3]				
Time span of variable 1982							positive	±,j		Ticatrailz	-1		Педаціче	[3]				
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013		profit																
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013																		
WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	Time sp	oan of v	variable	е														
WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	1302	1303	1304	1303	1300	1307	1300	1303	1330	1331	1332	1333	1334	1333	1330	1337		
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013									WEST									
															EAST			
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
WEST																		
EAST EAST				WEST		WEST												
LAST. CAST				LASI		LASI												
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

1990	No.	Name			Label											Survey	period	Survey frequency
East and West 1996 to 2003 irregular																		
1990	3.16.8)	we8			impact c	of innovat	ions on m	arket sha	ire							West 1	.990	once
Further information																East ar	nd West 1996 to 2003	irregular
VIII. Economic impact of innovation impacts of innovation impacts of innovations impacted these items in our company as follows: positive[1]	Wordin	ng of qu	uestion															
VIII. Economic impact of innovations impacted these items in our company as follows: positive[1]	1990																Further information	
2. The realised innovations impacted these items in our company as follows: positive[1] not[2] negative[3]		nomic im	pact of ir	nnovation	1												Tartifer information	
market share	2. The re	alised inr	novations	impacted		ems												
1996 to 2003 VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows:	in our co	mpany as	follows:															
1996 to 2003 VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows:							positive[1]		not[2]			negative	[3]				
1996 to 2003 VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3]								l	ı		1							
VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3] market share positive[1] neutral[2] negative[3] Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST EAST		market s	hare]							
VI. Economic impact of innovation b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3] market share positive[1] neutral[2] negative[3] Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST EAST	1996 to 3	2003																
b) The realised innovations impacted these items in our company as follows: positive[1] neutral[2] negative[3]			act of in	novation														
Positive[1]	b) The re	ealised inr	novations	simpacted		ems												
Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST	in our co	mpany as	follows:															
Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST FAST F							positive[1]		neutral[2	2]		negative	[3]				
Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST FAST F								ı			1							
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST		market s	hare								J							
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST																		
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST	Time s	pan of v	variable	e														
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST WEST EAST																		
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST EAST									WEST									
WEST EAST EAST															EAST			
EAST EAST EAST	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
EAST EAST EAST																		
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029				LASI		LASI												
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

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No.	Name			Label											Survey	period	Survey frequency
3.16.9)	we9		1	impact (of innovati	ions on co	ompetitiv	eness							West 1		once
Wordi	ng of qu	uestion													East ar	nd West 1996 to 2003	irregular
2. The re		ovations	n ovation impacted		ems											Further information	
						positive[1] 1		not[2]			negative	[3]				
1996 to 2	competit 2003	civeness															
b) The re	omic impa ealised inn mpany as	ovations	impacted	d these it	tems												
						positive[1]		neutral[2	:]		negative	[3]				
	competit	tiveness															
Time s	pan of v	/ariable	e														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
								WEST						WEST EAST			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
			WEST EAST		WEST EAST												
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
No.	Name			Label	_	_		_							Survey	period	Survey frequency
											_						
3.16.10)	we10	uostion			of innovati	ions on la	bour pro	ductivity		_					West 1		Survey frequency once irregular
3.16.10) Wordi		uestion			of innovati	ions on la	bour pro	ductivity							West 1 East ar	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ	we10	pact of ir		impact (ions on la	bour pro	ductivity							West 1 East ar	.990	once
3.16.10) Wordin 1990 VIII. Econ 2. The re	we10	pact of in	nnovation impacted	impact (ems			ductivity	1(0)						West 1 East ar	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ 2. The re	we10 ng of que nomic implications as incoming as inc	pact of in ovations follows:	nnovation s impacted	impact (ems	positive[ductivity	not[2]			negative	[3]		West 1 East ar	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Economic control our control 1996 to 2	we10 ng of que nomic implication in the control i	pact of in ovations follows:	nnovation impacted	impact o	ems			ductivity	not[2]			negative	[3]		West 1 East ar	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ in our con 1996 to 2 VI. Econ b) The res	we10 ng of que nomic imples is a labour process labour process comic imples is a labour implementation in a labour impleme	pact of in novations follows: roductivi	nnovation impacted	I these it	ems			ductivity	not[2]			negative	[3]		West 1 East ar	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ in our con 1996 to 2 VI. Econ b) The res	we10 ng of que nomic implication as a second control of the cont	pact of in novations follows: roductivi	nnovation impacted	I these it	tems		1]	ductivity	not[2]	.]		negative			West 1 East ar	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ in our con 1996 to 2 VI. Econ b) The res	we10 ng of que nomic imples is a labour process labour process comic imples is a labour implementation in a labour impleme	pact of in covations follows: roductivity pact of in novations follows:	nnovation impacted ty	I these it	tems	positive[1]	ductivity		.]					West 1 East ar	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ in our con b) The resin our con	we10 ng of que nomic implication as a second company as comic implication as company a	pact of in lovations follows: roductivi	nnovation impacted ty	I these it	tems	positive[1]	ductivity							West 1 East ar	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ in our con b) The resin our con	we10 ng of que nomic implication as a second communic implication as a second communic implication as a second communication as a second communica	pact of in lovations follows: roductivi	nnovation impacted ty	I these it	tems	positive[1]	ductivity		1992	1993			1996	West 1 East ar	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ 2. The rein our co	we10 ng of quantities of quan	pact of in lovations follows: roductivity pact of in lovations follows:	nnovation impacted ty	I these it	tems	positive[1]]		neutral[2		1993	negative	[3]	1996 WEST	West 1	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ 2. The rein our co	we10 ng of quantities of quan	pact of in lovations follows: roductivity pact of in lovations follows:	nnovation impacted ty	I these it	tems	positive[1]]	1990	neutral[2		1993	negative	[3]	WEST	West 1	.990 nd West 1996 to 2003	once
3.16.10) Wordin 1990 VIII. Econ 1996 to 3 VI. Econ b) The resin our co	we10 ng of quantities of qualised innumbers of the control of the	pact of in novations follows: roductivity pact of in novations follows:	nnovation impacted ty	I these it	tems	positive[1]	1990 WEST	neutral[2	1992		negative	1995	WEST EAST	West 1 East ar	.990 nd West 1996 to 2003	once

No.	Name	Label	Survey period	Survey frequency

Wording of question

No. Name

1990															
	nomic im														
	quantify														
innovatio	ons on the	e followir	ng items (estimate	s are suffi	cient)									
	revenue									(increa	ase or de	crease in S	%)		
1996 to															
	nomic imperent of the end of the				alised										
					s are suffi	cient)									
			,			,									
									increase	in %					
	revenue														
Time s	pan of v	variable	2												
	P 														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
								WEST						WEST	
														EAST	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
			WEST		WEST										
			EAST		EAST										
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Survey period

Survey period

Survey frequency

Survey frequency

														West 1 East ar	1990 nd West 1996 to 2003	once irregular	
2. Please	quantify	the addi	nnovation tional imp	act of re		cient)										Further information	
1996 to 2 VI. Econ c) Please	omic imp quantify	the addi	novation tional imp			ciant)				(increa	ase or dec	crease in S	%)				
	profit			estimate:	s are sum	Lient			increase ————	in % 							
1982	1983	1984	1985	1986	1987	1988	1989	1990 WEST	1991	1992	1993	1994		1996 WEST EAST	1997		
1998	1999	2000	2001 WEST EAST	2002	2003 WEST EAST	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.16.13) we13	percentage increase in labour productivity due to innovations	West 1990	once
		East and West 1996 to 2003	irregular
Wording of question			

1990	Further information
VIII. Economic impact of innovation	

2. Please quantify the additional impact of realised innovations on the following items (estimates are sufficient)

Label

No.

Name

Label

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	labour pi	roductivi	ty						(increase or decrease in %)									
c) Please	omic imp quantify	the addi	novation tional imp ng items (e			cient)												
	labour po								increase 	in % 								
1982	1983	1984	1985	1986	1987	1988	1989	1990 WEST	1991	1992	1993	1994	1995	1996 WEST EAST	1997			
1998	1999	2000	2001 WEST	2002	2003 WEST	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
2014	2015	2016	2017		EAST 2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			

No.	Name	ne Label													Survey period Survey frequence		Survey frequency
3.16.14)	we14			percenta	age increa	se in mar	ket share	due to in	novation	IS					West 1	990	once
															East an	nd West 1996 to 2003	irregular
Wordin	ng of qu	estion															
1990																Further information	
	-		novation		. 19 1												
			tional imp		alised s are suffic	rient\											
illovatic	7113 011 1116	TOHOWIN	ig iteilis (d	estimates	s are surin	Jent)											
	market s	hare								(increa	se or dec	crease in S	%)				
1000 += 3	1002																
1996 to 2	2003 <mark>omic imp</mark>	act of in	novation														
			tional imp	act of rea	alised												
					are suffic	cient)											
									increase	in %							
	market s	hare															
Time si	oan of v	/ariable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
								WEST						WEST			
														EAST			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
			WEST		WEST												
			EAST		EAST												
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.16.15) we15 no impact of innovations on	revenue	West 1990 East and West 1996 to 2003	once irregular
Wording of question			-0
1990VIII. Economic impact of innovation2. Please quantify the additional impact of realised innovations on the following items (estimates are sufficient)		Further information	
revenue	[1], if the value 0 was stated (increase or decrease in %)		
1996 to 2003 VI. Economic impact of innovation c) Please quantify the additional impact of realised innovations on the following items (estimates are sufficient)			
revenue	no change [1] Seite 206		

Name

Label

Survey period

Time s	pan of v	/ariable	2												
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
								WEST						WEST EAST	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
			WEST EAST		WEST EAST										
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Label Survey period Survey frequency No. Name 3.16.16) **we16** West 1990 no impact of innovations on profits once East and West 1996 to 2003 irregular Wording of question 1990 Further information VIII. Economic impact of innovation 2. Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) [1], if the value 0 was stated (increase or decrease in %) profit 1996 to 2003 VI. Economic impact of innovation c) Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) no change [1] profit Time span of variable 1986 1990 1992 1996 1982 1983 1984 1985 1987 1988 1989 1991 1993 1994 1995 1997 WEST WEST **EAST** 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 1998

No. Name Label Survey period Survey frequency

2025

2026

2027

2028

EAST

2029

West 1990

East and West 1996 to 2003

once

irregular

Wording of question

3.16.17) we17

2015

2016

2017

2018

2019

2020

no impact of innovations on productivity

2021

2022

2023

2024

2014

1990 Further information VIII. Economic impact of innovation 2. Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) labour productivity [1], if the value 0 was stated (increase or decrease in %) 1996 to 2003 VI. Economic impact of innovation c) Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) no change [1] labour productivity Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST Seite 207 WEST

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
			MECT		WECT										
			WEST EAST		WEST EAST										
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Survey period Label Survey frequency No. Name West 1990 3.16.18) we18 no impact of innovations on market share once East and West 1996 to 2003 irregular Wording of question Further information VIII. Economic impact of innovation 2. Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) market share [1], if the value 0 was stated (increase or decrease in %) 1996 to 2003 VI. Economic impact of innovation c) Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) no change [1] market share Time span of variable WEST WEST **EAST** WEST WEST EAST **EAST**

No. Name
Label

Survey period
Survey frequency

3.16.19) we19

percentage decrease in revenue due to innovations

West 1990
East and West 1996 to 2003

irregular

Wording of question

Seite 208

Further information VIII. Economic impact of innovation 2. Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) revenue (increase or decrease in %) 1996 to 2003 VI. Economic impact of innovation c) Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) decrease in % revenue Time span of variable WEST WEST **EAST** WEST WEST **EAST EAST**

Survey frequency Name Label Survey period No. West 1990 3.16.20) we20 percentage decrease in profit due to innovations once irregular East and West 1996 to 2003 Wording of question 1990 Further information VIII. Economic impact of innovation 2. Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) profit (increase or decrease in %) 1996 to 2003 VI. Economic impact of innovation c) Please quantify the additional impact of realised innovations on the following items (estimates are sufficient) decrease in % profit Time span of variable 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1982 1983 WEST WEST **EAST** 2001 2002 2003 2004 2005 2007 2010 2011 2012 1998 1999 2000 2006 2008 2009 2013 WEST WEST **EAST** EAST 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029

	Vording of question East														West 1 East an	1990 nd West 1996 to 2003	once irregular
2. Please innovation	quantify	the addi e followir		act of rea	alised s are suffi	cient)				(increa	ase or dec	crease in S	%)			Further information	
innovatio	e quantify ons on the	the addi e followir	tional imp ng items (ty		alised s are suffic	cient)			decrease 	e in % —							
1982	1983	1984	1985	1986	1987	1988	1989	1990 WEST	1991	1992	1993	1994	1995	1996 WEST EAST	1997		
1998	1999		2001 WEST EAST	2002	2003 WEST EAST	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Survey period

Survey frequency

Label

No.

Name

No.	Name	Label	Survey period	Survey frequency
3.16.22) we22	percentage decrease in market share due to innovations	West 1990	once
			East and West 1996 to 2003	irregular
Word	ing of question			

1990		Further information
VIII. Economic impact of innovation	Seite 209	
2. Please quantify the additional impact of realised		

innovatio	ons on the	followin	ng items (e	estimates	are suffic	cient)									
	market s	hare								(increa	ase or dec	rease in 9	%)		
1996 to 2 VI. Econo c) Please	omic imp			act of rea	alised										
					anseu s are suffic	cient)									
	market s	hare							decrease 	in % —					
Time sp	pan of v	/ariable	2												
1982	1983	1984	1985	1986	1987	1988	1989	1990 WEST	1991	1992	1993	1994	1995	1996 WEST EAST	1997
1998	1999		2001 WEST EAST	2002	2003 WEST EAST	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

No.	Name			Label											Survey	period	Survey frequency
	we23	estion		share of	new prod	lucts in to	tal reven	ue							West 1	1990	onc
1. Produ business of the to Export a	nomic imports newly syear 1989 tal revenuted pan of v	taken int 5 account ue of the for a shai	o the pro ted for a s product li re of of	duction p hare of ne in 199	0		ucts				%					Further information	
1982	1983	1984	1985	1986	1987	1988	1989	1990 WEST	1991	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

3.16.24)	we24			share of	exports n	iew produ	ıcts in sal	es of new	products	S					West 1	.990	once
Wordin	ng of qu	estion															
1990 VIII. Econ	nomic im	oact of in	novation													Further information	
1. Produc	cts newly	taken int	o the pro	duction p		ince											
business of the tot											%						
Export ac	counted	for a shar	e of of	the sales	of these	new proc	lucts				%						
,						·											
Time sp	oan of v	/ariable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
								WEST									
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

Survey frequency

Survey period

3.17 Procurement and transfer of technologies

Label

No.

Name

No.	Name	Label	Seite 210	Survey period	Survey frequency

3.17.1-50) bt1-bt50

technology procurement

West 1991 East 1991

Survey period

Survey frequency

once

once once

Wording of question

1001																Further information
1991 <mark>KII. Info</mark> r	rmation fo	or charac	terisation	n of the c	ompany											Further information
	our compa	any procu		echnologi	es in 199	1?										
	yes	bt1		no	bt2											
	If yes: Ho	ow and by	y whom h	ave these	e technolo	ogies bee	n procure	d?								
		Way	of				by of	ther com	naniec]			
	techr		ocuremer	nt	with	in Europe		aner com	Parties	outsid	e of Europ	oe				
					domesti		not EC	1			Japan					
		ge rights	for ns/license	ac.	bt3	bt4	bt5			bt6	bt7	bt8				
					513	514	513			5.0	507	Dio				
		usage of														
	cons	ultancy s	ervices		bt9	bt10	bt11			bt12	bt13	bt14				
		exte	rnal													
		R&D serv	vices		bt15	bt16	bt17			bt18	bt19	bt20				
		o mulaiti	n of													
		aquisitio t of) com			bt21	bt22	bt23			bt24	bt25	bt26				
	ac	quisition			h+27	h+20	h+20			h+20	h+21	h+22				
		machii	nes		bt27	bt28	bt29			bt30	bt31	bt32				
		ecruitme														
		specialis	t staff		bt33	bt34	bt35			bt36	bt37	bt38				
	O.t	ther ways	s of													
		procurer			bt39	bt40	bt41			bt42	bt43	bt44				
													1			
	Procuren	nent fron	n													
	Parent, s	ubsidiary	or		bt45	bt46	bt47			bt48	bt49	bt50				
	affiliated	company	У													
Γime s	pan of v	/ariable	2													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
												200,				
									WEST							
									EAST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

3.17.51-100) tt1-tt50	transfer of technologies	West 1991	once
		East 1991	once

Wording of question

Name

No.

Label

Further information 1991 XII. Information for characterisation of the company b) Did your company transfer new technologies in 1991? tt2 tt1 yes If yes: How and to whom have these technologies been transferred?

Way of			to of	ther companie	es		
technology transfer	wit	hin Europ	ре		outsi	de of Euro	ре
	domes	tidEC	not EC		USA	Japan	other
usage rights for							
inventions/licenses	tt3	tt4	tt5		tt6	tt7	tt8
consultancy services							
for other companies	tt9	tt10	tt11	_	tt12	tt13	tt14
R&D services for							
other companies	tt15	tt16	tt17	_	tt18	tt19	tt20
selling							
(part of) the company	tt21	tt22	tt23		tt24	tt25	tt26
selling	++27	++20	++20	_	++20	++24	++22
machines	tt27	tt28	tt29		tt30	tt31	tt32
deploying							
specialist staff	tt33	tt34	tt35		tt36	tt37	tt38
other ways of							
transfer:	tt39	tt40	tt41		tt42	Seitte4211	tt44

	transfer f Parent, s affiliated	ubsidiary			tt45	tt46	tt47			tt48	tt49	tt50			
Time s															
1982	1983	1984	1985	1986	1987	1988	1989		1991 WEST EAST	1992	1993	1994	1995	1996	1997
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013

3.18 R&D activities

No.

Name

1999

1998

2000

2001

2002

2003

2004

2005

2006

2007

2008 2009

Seite 212

2010

2011

2012

2013

Label

No.	Name			Label											Survey	period	Survey frequency
3.18.1)	fue1			company	y has carr	ed out R	&D								East ar	nd West 1991 to 2002	irregular
Wordi	ng of qu	uestion															
1998 and VI. Resear	&D activi our compa yes d 2002 arch and	Developr	[1] ment acti	no vity in the	e compan											*19WW denotes the year unde	r review
Time s	pan of v	variable	2														
1982	1983	1984	1985	1986	1987	1988	1989		1991 WEST EAST	1992	1993	1994	1995	1996	1997		
1998 WEST EAST	1999	2000 WEST EAST	2001	2002 WEST EAST	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.18.2) fue2 East and West 1991 to 2002 irregular company carries out R&D on regular basis Wording of question 1991 and 2000 Further information IX./VI. R&D activities a) Has your company carried out R&D in 19WW*?? yes *19WW denotes the year under review If yes: - is R&D carried out regularly? [1] [2] yes 1998 and 2002 VI. Research and Development activity in the company we conduct our own Research and Development (R&D) [2] If yes: 1. regularly upon requirement Time span of variable 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 WEST EAST

Survey period

WI EA	EST AST		WEST EAST		WEST EAST											
2	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

No.	Name			Label											Survey	period Sur	vey frequency
3.18.3) fue3			share of	product i	West a	and East 1991	once									
															West a	and East 2000	once
Word	ing of q	uestion															
1991 aı	nd 2000															Further information	
	R&D activities syour company carried out R&D in 19WW*??																
a) Has																	
	If ves:						*19WW denotes the year under revi	ew									
	If yes: share of R&D expenditures in 19WW* for -product innovations %																
Time	span of	variable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
									WEST								
									EAST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
		WEST															
		EAST															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.18.4)	fue4			share of	process ir	nnovatior	is in R&D	expendit	tures							and East 1991 and East 2000	once
Wordir	ng of qu	uestion															
	&D activ	i ties any carrie		D in 19W no	W*??											*19WW denotes the year under review	
		R&D expo - proces variable	s innovati		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
									WEST EAST								
1998	1999	WEST EAST	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

No.

Name

Survey period

No. Name	Label		Survey period	Survey frequency
3.18.5) fue5	company plans R&D during next 3 year	rs	West and East 1991	once
			West and East 2000	once
Wording of question				
1001				
1991 and 2000			Further information	
IX./VI. R&D activities				
b) Are there any scheduled	R&D activities during the next 3 years?			
yes	[1] no [2]	Seite 213		

Time s _l	pan of	variable	2												
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
									WEST EAST						
1998	1999	WEST EAST	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Name

No.

No.	Name			Label											Survey	period	Survey frequency	,
	fue6	ıestion		R&D org	anised in	form of: o	entral R&	D depart	ment							and East 1998 and East 2002		once once
	arch and I duct our o yes	2. Our Re (multiple	arch and I B D activit e answers		rganised in) 	n of				[1]					Further information		
Time s	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
WEST EAST 2014	2015	2016	2017	WEST EAST 2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029			

3.18.7)				R&D org	anised in	form of: o	decentrali	sed R&D	departme	ents						nd East 1998 nd East 2002	ond
Nordir	ng of qu	estion															
we cond	urch and I uct our o yes	wn Resea	arch and I] &D activit	Developm no	e compan nent (R&I ganised i) 	n of									Further information	
ime sp	oan of v		pany sec	&D depar tor specif	tments (e	.g.produc	ct group				[1]						
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998 WEST EAST	1999	2000	2001	2002 WEST EAST	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

Survey period

3.18.9) Wordi	fue9 ng of qu	estion		R&D org	anised by	entrepre	neur him	self								and East 1998 and East 2002	ond
	d 2002 arch and l duct our o															Further information	
	yes If yes:			no ties are or		n the form	n of										
				s possible by the enti		· himself][1]						
Time s	pan of v	/ariable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
WEST	1999	2000	2001	WEST EAST	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.18.10) f	West															est and East 1998 est and East 2002		
Wording	g of qu	estion															once	
	rch and [uct our ov yes [wn Resea	rch and [/W/20W\		ent (R&I	r total R8				%						Further information *19WW denotes the year under review		
Time sp				1000	1007	1000	1000	1000	1001	1002	1002	1004	1005	1000	1007			
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 Se	1993 eite 215	1994	1995	1996	1997			

No.

Name

Survey period

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
WEST EAST				WEST EAST											
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

No.	Name			Label											Survey	period	Survey frequency
3.18.11)	fue11			future de	evelopme	ent of R&I) expendi	itures							West a	and East 2000	once
Wordi	ng of qu	estion															
b) Are tl	activities nere any s yes If yes: - are the	R&D exp - increas - remain - decrea	penditure se i constant se	no s going to		ext 3 yea	rs? [1] [2] [3]									Further information	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1998		WEST EAST	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		

3.19 R&D-Kooperation

Label

3.19.1-62) fueko1-fueko62	R&D cooperations	West 1991	once
		East 1991	once

Survey frequency

Survey period

Wording of question

Name

No.

					Further information	
Kooperation						
company participate in any R&D c		.?				
yes fueko1 no	fueko2					
16						
If yes: Who did you cooperate with?						
who did you cooperate with:						
		Cooperation partner	has its place of busir	ness		
Cooperation partner	in Europe		outside of E	urope		
	domesticEC	not EC	USA Japa	n other		
gustomars	fueko3 fueko4	fueko5	fueko6 fuek	o7 fueko8		
customers	Tueko3 Tueko4	Tuekos	Tuekoo Tuek	07 Tueko8		
suppliers	fueko9 fueko1	0 fueko11	fueko12 fuek	o13 fueko14		
manant autoidiam. an	fuelsed F. fuelsed	C fuelve17	fuels 10 fuels	-10 fuels-20		
parent, subsidiary or affiliated company	fueko15 fueko1	b rueko17	fueko18 fuek	019 Tuek020		
armatea company						
competitors	fueko21 fueko2	2 fueko23	fueko24 fuek	o25 fueko26		
consultants	fueko27 fueko2	9 fuoko20	fueko30 fuek	021 fuoko22		
Consultants	Tuekoz/Tuekoz	6 Tuekoz9	Tuekoso Tuek	031 1008032		
public	fueko33 fueko3	4 fueko35	fueko36 fuek	o37 fueko38		
research institutes						
private	fueko39 fueko4	0 fueko/1	fueko42 fuek	0/13 fueko/14		
research institutes	Tuek039 Tuek04	U I U E KU41	Tueko42 Tuek	043 TUERU44		
universities	fueko45 fueko4	6 fueko47	fueko48 fuek	o49 fueko50		
Institutes for	fueko51 fueko5	26 1 52	Seite 2 fueko54 fuek			

		joint rese	earch												
	other:				fueko57	fueko58	fueko59			fueko60	fueko61	fueko62			
Time s	span of	variable													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1302	1363	1304	1983	1980	1987	1388	1989	1990	1991	1332	1333	1994	1995	1990	1997
									WEST EAST						
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013

3.20 Structure of the product range

No. Name	Label	Survey period	Survey frequency
3.20.1) sps1	share of products which remained unchanged in total revenue	West and East 1991	once

Wording of question

Name

No.

1001																-urther	forms+	ion	
991 1 Struc	ture of th	ne produc	t range													urther	nformati	OH	
				ole produc	ct range b	efore 19	91 =100%	. what w	as the sha	are of rev	enue								
		last year						,											
						with resp total rev	ect to the	e											
	- basical	ly remain	ed uncha	nged				%											
		,		0															
	C																		
Γime s	pan of v	variable	2																
	-			1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997				
Γime s 1982	pan of v	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997				
	-			1986	1987	1988	1989		WEST	1992	1993	1994	1995	1996	1997				
	-			1986	1987	1988	1989			1992	1993	1994	1995	1996	1997				
1982	1983	1984	1985						WEST EAST										
	-			1986	1987	1988	1989		WEST	1992	1993	1994	1995 2011	1996 2012	1997				
1982	1983	1984	1985						WEST EAST										
1982	1983	1984	1985						WEST EAST										

3.20.2)	sps2			share of	products	which ch	anged slig	ghtly in to	otal reven	ue					West a	and East 1991	once
Wordin	ng of qu	estion															
1991 XI. Struc a) If you as com		venue of	your who		ct range k	pefore 19			as the sha	are of rev	enue					Further information Umsatzanteil von slightlyfügig veränderten Produkten	
Time s	- change	d only sli				total rev		<u></u> %									
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 WEST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	EAST 2007	2008	2009	2010	2011	2012	2013		

No. Name Label Survey period Survey frequency

3.20.3) sps3 share of products which changed significantly in total revenue

Label

West and East 1991

Survey period

once

Survey frequency

1991																Further in	ntorma	ition		
XI. Struct	ture of th	e produc	t range																	
a) If you	set the re	venue of	your who	ole produ	ct range b	efore 199	91 =100%	, what w	as the sha	are of rev	enue									
as com	pared to	last year	of produc	cts that																
						with resp total reve		e												
		d cruciall tely new		introduc	ed			%												
Time s	pan of v	/ariable																		
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997					
									WEST EAST											
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013					
1330	1333	2000	2001	2002	2003	2007	2003	2000	2007	2000	2003	2010	2011	2012	2013					

Vo.	Name			Label											Survey	period	Survey frequency
3.20.4)	sps4			share of	products	which rer	nained ui	nchanged	d in expor	t revenue					West a	nd East 1991	ond
	•								·								
Wordir	ng of qu	estion															
.991	turo of th	o produc	t range													Further information	
	ture of th			مام سممار	ot vonas l	oforo 10	01 -1000/		aa tha ab	ana of name							
			your who		ct range k	perore 199	91 =100%	, wnat w	as the sha	are of reve	enue						
us com	iparca to	iast year	or product	oto triat													
						with resp		e									
						export re	venue										
	- hasicall	v remain	ed uncha	nged				%									
	Sasican	y remain	ca arreira	Bea				,,,									
Time si	pan of w	zriahle	<u> </u>														
i iiiie sį	pail of v	ariabie															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
									WEST EAST								
									EAST								
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

No. Name	Label	Survey period	Survey frequency
3.20.5) sps5	share of products which changed slightly in export revenue	West and East 1991	once
Wording of question			

Further information XI. Structure of the product range a) If you set the revenue of your whole product range before 1991 =100%, what was the share of revenue as compared to last year of products that with respect to the export revenue - changed only slightly Time span of variable WEST EAST

No.	Name	Label	Survey period	Survey frequency

Survey period

West and East 1991

Survey frequency

once

Wording of question

1991																Further information
XI. Struct		-	_													
a) If you s					ct range b	pefore 19	91 =100%	, what w	as the sha	are of rev	enue					
as com	pared to	last year	of produc	cts that												
						with resp	ect to th	e								
						export re										
			y or were	introduc	ed			0/								
	comple	tely new						%								
Time sp	oan of v	ariable/	è													
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
									MECT							
									WEST EAST							
									LAST							
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	

share of products which changed significantly in export revenues

No.	Name			Label											Survey	y period	Survey frequency
3.20.7) Wordii	sps7	estion		share of	innovativ	e produc	ts new to	company	y in total r	revenue					West a	and East 1991	once
1991 XI. Struc b) Share	ture of th of revenu - to the o	e produc le of inno company	t range vative pr	oducts in	1991 tha	t were ne _%	w									Further information	
1982	1983	1984	1985	1986	1987	1988	1989		1991 WEST EAST	1992	1993	1994	1995	1996	1997		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

1991																Further information
	ture of th				1001 +14											
) Snare	or revenu	ie ot inno	vative pro	oducts in	1991 tnat	were ne	W									
	- to the	sector				%										
	to the .					, ,										
Time s	pan of v	variable	<u>.</u>													
	-															
Γime s 1982	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
	-			1986	1987	1988	1989	1990		1992	1993	1994	1995	1996	1997	
	-			1986	1987	1988	1989	1990	WEST	1992	1993	1994	1995	1996	1997	
	-			1986	1987	1988	1989	1990		1992	1993	1994	1995	1996	1997	
	-			1986	1987	1988	1989	1990	WEST	1992	1993	1994	1995	1996	1997	

3.21 Competitiveness and technology

Label

share of innovative products new to sector in total revenue

Name

3.20.8) sps8

No.

EAST +

WEST_{Se}ite 220

No.	Name			Label											Survey	period	Survey frequency	
3.21.5)) wft5			competit	tiveness a	as compa	red to co	mpetitors	s from Ea	stern Europ	e				East ar	nd West 1992	on	ice
Wordi	ing of qu	uestion																
1992	notitivono	ocs and to	ochnolog	,												Further information		
	petitivene ed to the l				ness towa	ards com	petitors f	rom [] \	will in the	e medium te	erm:							
				Eastern I	Europe		increase	[1]		not change	2]		decrease	[3]				
	span of v																	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 EAST +	1993	1994	1995	1996	1997			
										WEST								
NIa	Nama			Labal											C		Company for any and any	
No.	Name			Label								7			Survey	period	Survey frequency	
3.21.6)	wft6			competit	tiveness i	n genera	I								East ar	nd West 1992	on	ice
Wordi	ing of qu	uestion																
	petitivene															Further information		
Compar	ed to the l	last 3 yea	irs our co	mpetitive	ness towa	ards com	petitors f		will in the	e medium te not change			decrease					
				in genera	al		increase	[1]		[i			decrease	[3]				
T:		ا ما ما د د د د	_															
1982	span of v	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
			2000		200.					EAST +								
										WEST								
No.	Name			Label						-					Survey	period	Survey frequency	
	wft7			importar	nce of nev	w techno	logies for	competit	tiveness						East ar	nd West 1992	on	ice
1992	ing of qu	restion														Further information		
III. Com	petitivene chnologies				nce regar	ding the	retention	n or increa	ase of ou	r competitiv	veness					ruttilei iiiloiiilatioii		
		major][1]		slight		[2]		no		3]						
Time s	span of v	variable	е															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991		1993	1994	1995	1996	1997			
										EAST + WEST								
																		_
No.	Name	_	_	Label	_	-	_	_	-		_	-	-	_	Survey	period	Survey frequency	
3.21.8)) wft8			focus of	technolog	gical com	petition:	new mate	erials						East ar	nd West 1992	on	ice
Wordi	ing of qu	uestion																
	petitivene															Further information		
	nedium ter innovatio		product	ine the te	chnology	competi			ed on foll	owing main			ions					
							new ma	terials				1]						

1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992Seiter 2018 1994 1995 1996 1997



No.	Name	Label		Survey	period	Survey frequency
3.21.9	9) wft9	focus of technological compe	etition: new intermediate products	East ar	nd West 1992	once
Word	ding of questi	n				
1992					Further information	
III. Con	npetitiveness an					
	medium term in	ur product line the technology competitio	on is concentrated on following main focus of innovations			
produc		n	ew intermediate products [1]			
Time	span of varia	ole				
1982	1983 198	1 1985 1986 1987 1988	1989 1990 1991 1992 1993 1994 1995	1996 1997		
			EACT			
			EAST + WEST			
No.	Name	Label		Survey	period	Survey frequency
3.21.10	0) wft10	focus of technological compa	etition: new functional solutions	Fast ar	nd West 1992	once
			actions new functional solutions	Last al		Once
Word	ding of questi	on				
1992					Further information	
	npetitiveness an	technology			i urtiler illiormation	
In the i	medium term in		on is concentrated on following main focus of innovations			
produc	ct innovations	new functional solutions for e	existing products [1]			
Time	span of varia	ole				
1982	1983 198	1 1985 1986 1987 1988	1989 1990 1991 1992 1993 1994 1995	1996 1997		
1302	. 1985 196	1363 1360 1367 1368	1363 1330 1331 1332 1333 1334 1333	1930 1937		
			EAST +			
			WEST			
			WEST			
No.	Name	Label	WEST	Survey	period	Survey frequency
No.	Name	Label	WEST	Survey	period	Survey frequency
		_				
	Name	_	etition: fundamentally new products		period nd West 1992	Survey frequency once
3.21.1		focus of technological compe				
3.21.1: Word	1) wft11	focus of technological compe		East ar	nd West 1992	
3.21.1: Word	¹⁾ wft11 ding of questi	focus of technological compe		East ar		
3.21.1: Word 1992 III. Con	1) wft11 ding of questi	focus of technological compe		East ar	nd West 1992	
3.21.1: Word 1992 III. Con	1) wft11 ding of questi	focus of technological compe on technology ur product line the technology competition	etition: fundamentally new products on is concentrated on following main focus of innovations	East ar	nd West 1992	
3.21.1: Word 1992 III. Con	1) wft11 ding of questi	focus of technological compe on technology ur product line the technology competition	etition: fundamentally new products	East ar	nd West 1992	
3.21.1: Word 1992 III. Con	1) wft11 ding of questi	focus of technological compe on technology ur product line the technology competition	etition: fundamentally new products on is concentrated on following main focus of innovations	East ar	nd West 1992	
3.21.1: Word 1992 III. Con In the i	1) wft11 ding of questi	focus of technological compension technology ur product line the technology competition	etition: fundamentally new products on is concentrated on following main focus of innovations	East ar	nd West 1992	
3.21.1: Word 1992 III. Con In the i	ding of questing of questing of questing of questing the state of the	focus of technological competition technology ur product line the technology competition fundament	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1]	East ar	nd West 1992	
3.21.1: Word 1992 III. Con In the i	ding of questing of questing of questing of questing the state of the	focus of technological competition technology ur product line the technology competition fundament	etition: fundamentally new products on is concentrated on following main focus of innovations	East ar	nd West 1992	
3.21.1: Word 1992 III. Con In the i	ding of questing of questing of questing of questing the state of the	focus of technological competition technology ur product line the technology competition fundament	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989 1990 1991 1992 1993 1994 1995 EAST +	East ar	nd West 1992	
3.21.1: Word 1992 III. Con In the i	ding of questing of questing of questing of questing the state of the	focus of technological competition technology ur product line the technology competition fundament	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989 1990 1991 1992 1993 1994 1995	East ar	nd West 1992	
3.21.1: Word 1992 III. Con In the i	ding of questing of questing of questing of questing the state of the	focus of technological competition technology ur product line the technology competition fundament	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989 1990 1991 1992 1993 1994 1995 EAST +	East ar	nd West 1992	
3.21.1: Word 1992 III. Con In the i produce 1982	ding of questing of questing of questing of questing the properties of questing the question of questing the question of question of questing the question of questio	focus of technological competition technology ur product line the technology competition fundament ole 1 1985 1986 1987 1988	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989 1990 1991 1992 1993 1994 1995 EAST +	1996 1997	Further information	once
3.21.1: Word 1992 III. Con In the i	ding of questing of questing of questing of questing the state of the	focus of technological competition technology ur product line the technology competition fundament	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989 1990 1991 1992 1993 1994 1995 EAST +	1996 1997	nd West 1992	
3.21.1: Word 1992 III. Con In the i produce 1982 No.	ding of questing of questing of questing of questing of questing the properties of questions of questio	focus of technological competition technology ur product line the technology competition fundament ole 1 1985 1986 1987 1988 Label	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] EAST + WEST	1996 1997 Survey	Further information	Survey frequency
3.21.1: Word 1992 III. Con In the i product 1982 No.	ding of questing of questing of questing of questing the properties of questing the question of questing the question of question of questing the question of questio	focus of technological competition technology ur product line the technology competition fundament ole 1 1985 1986 1987 1988 Label	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989 1990 1991 1992 1993 1994 1995 EAST +	1996 1997 Survey	Further information	Survey frequency
3.21.1: Word 1992 III. Con In the i product 1982 No.	1) wft11 ding of questi mpetitiveness an medium term in et innovations span of varia 1983 198 Name 2) wft12	focus of technological competition technology ur product line the technology competition fundament ble Label focus of technological competition Label	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] EAST + WEST	1996 1997 Survey	Further information	Survey frequency
3.21.1: Word 1992 III. Con In the i product 1982 No.	ding of questing of questing of questing of questing of questing the properties of questions of questio	focus of technological competition technology ur product line the technology competition fundament ble Label focus of technological competition Label	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] EAST + WEST	1996 1997 Survey	Further information	Survey frequency
3.21.13 Word 1992 III. Con In the i product 1982 No. 3.21.13 Word 1992	ding of question of question of question of question of variations span of variation of question of q	focus of technological competition technology ur product line the technology competition fundament ole Label focus of technological competition focus of technological competition focus of technological competition	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] EAST + WEST	1996 1997 Survey East ar	Further information	once
3.21.13 Word 1992 III. Con In the i product 1982 No. 3.21.13 Word 1992 III. Con	ding of questing of questing of questing of variations span of variations 1983 198 Name Name 2) wft12 ding of questing ques	focus of technological competition technology ur product line the technology competition fundament ole Label focus of technological competition technology technology	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989 1990 1991 1992 1993 1994 1995 EAST + WEST etition: new production and process technologies	1996 1997 Survey East ar	Further information period d West 1992	Survey frequency
3.21.1: Word 1992 III. Con In the i product 1982 No. 1992 III. Con In the i	ding of questing of questing of questing of variations span of variations 1983 198 Name Name 2) wft12 ding of questing ques	focus of technological competition technology ur product line the technology competition fundament Label Label focus of technological competition technology ur product line the technology competition technology ur product line the technology competition roduction	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989	1996 1997 Survey East ar	Further information period d West 1992	Survey frequency
3.21.1: Word 1992 III. Con In the i product 1982 No. 1992 III. Con In the i	mpetitiveness and medium term in the innovations span of variations span of variations 1983 198 Name Name 2) wft12 ding of questions mpetitiveness and medium term in in medium term in in medium term in	focus of technological competition technology ur product line the technology competition fundament Label Label focus of technological competition technology ur product line the technology competition technology ur product line the technology competition roduction	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989 1990 1991 1992 1993 1994 1995 EAST + WEST etition: new production and process technologies	1996 1997 Survey East ar	Further information period d West 1992	Survey frequency
3.21.1: Word 1992 III. Con In the i product 1982 No. 1992 III. Con In the i	mpetitiveness and medium term in the innovations span of variations span of variations 1983 198 Name Name 2) wft12 ding of questions mpetitiveness and medium term in in medium term in in medium term in	focus of technological competition technology ur product line the technology competition fundament Label Label focus of technological competition technology ur product line the technology competition technology ur product line the technology competition roduction	etition: fundamentally new products on is concentrated on following main focus of innovations tally new products [1] 1989	1996 1997 Survey East ar	Further information period d West 1992	Survey frequency

1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997



No.	Name	Label			Su	rvey period	Survey frequency
3.21.13)	wft13	focus of technological com	npetition: further automation		Ea	st and West 1992	once
Wordi	ng of question						
vvoran	ing or question						
1992 III. Comp	petitiveness and techno	logy				Further information	
In the m	nedium term in our produ	ict line the technology compet	ition is concentrated on following m	nain focus of innovation	ons		
Process	innovations in production	n further automati	on	[1]			
Time s	span of variable						
		1000 1007 1000	1000 1000 1001 1001	1002 1004	4005 4006 4	207	
1982	1983 1984 198	35 1986 1987 1988 	1989 1990 1991 1992		1995 1996 1	997	
			EAST WEST				
NIa	Name	l ala al			Ç		Company for any and any
No.	Name	Label			Su	rvey period	Survey frequency
3 21 14)) wft14	focus of tachnological com	npetition: new technical organisatio	nal structures	Fa	st and West 1992	once
		rocus or technological con	ipetition. New technical organisatio	narstructures	La	st and West 1992	Office
Wordi	ng of question						
1992						Further information	
	petitiveness and technonedium term in our produced		ition is concentrated on following m	nain focus of innovation	ons		
Process	innovations in production		ganisational structures	[1]			
Time s	span of variable						
1982	1983 1984 198	35 1986 1987 1988	1989 1990 1991 1992	2 1993 1994	1995 1996 1	997	
			EAST WEST				
			WEST				
No.	Name	Label		_	Su	rvey period	Survey frequency
			rials fire a six a				
3.21.15)	wft15	Label obst. to dev. of new mater	rials: financing			rvey period st and West 1992	Survey frequency once
3.21.15)			rials: financing				
3.21.15) Wordi 1992	wft15 ng of question	obst. to dev. of new mater	rials: financing				
3.21.15) Wordi	wft15 Ing of question petitiveness and techno	obst. to dev. of new mater				st and West 1992	
3.21.15) Wordi 1992 III. Comp Obstacle Financin	wft15 Ing of question petitiveness and techno es to innovations exist es	obst. to dev. of new mater				st and West 1992	
3.21.15) Wordi 1992 III. Comp Obstacle Financin	wft15 ng of question petitiveness and techno	obst. to dev. of new mater		[1]		st and West 1992	
3.21.15) Wordi 1992 III. Comp Obstacle Financin	wft15 Ing of question petitiveness and techno es to innovations exist es	obst. to dev. of new mater	s:	[1]		st and West 1992	
3.21.15) Wordi 1992 III. Comp Obstacle Financin product	wft15 Ing of question petitiveness and techno es to innovations exist es ng innovations	obst. to dev. of new mater	s:	[1]		st and West 1992	
3.21.15) Wording 1992 III. Compostacle Financin product Time s	wft15 Ing of question petitiveness and techno es to innovations exist es ing innovations	obst. to dev. of new mater	s: new materials		Ea	Further information	
3.21.15) Wordi 1992 III. Comp Obstacle Financin product	wft15 Ing of question petitiveness and techno es to innovations exist es ng innovations	obst. to dev. of new mater	s: new materials 1989 1990 1991 1992	2 1993 1994	Ea	st and West 1992	
3.21.15) Wording 1992 III. Compostacle Financin product Time s	wft15 Ing of question petitiveness and techno es to innovations exist es ing innovations	obst. to dev. of new mater	s: new materials	2 1993 1994	Ea	Further information	
3.21.15) Wording 1992 III. Compostacle Financin product Time s	wft15 Ing of question petitiveness and techno es to innovations exist es ing innovations	obst. to dev. of new mater	s: new materials 1989 1990 1991 1992 EAST	2 1993 1994	Ea	Further information	
3.21.15) Wording 1992 III. Compostacle Financin product Time s	wft15 Ing of question petitiveness and technores to innovations exist estimates innovations span of variable 1983 1984 198	obst. to dev. of new mater	s: new materials 1989 1990 1991 1992 EAST	2 1993 1994	1995 1996 1	Further information	once
3.21.15) Wording 1992 III. Compostacle Financin product Time s	wft15 Ing of question petitiveness and techno es to innovations exist es ing innovations	obst. to dev. of new mater	s: new materials 1989 1990 1991 1992 EAST	2 1993 1994	1995 1996 1	Further information	
3.21.15) Wording 1992 III. Compostacle Financing product Time s 1982 No.	wft15 Ing of question petitiveness and technores to innovations exist estimates innovations span of variable 1983 1984 198	obst. to dev. of new mater logy pecially in the following scopes Label	s: new materials 1989 1990 1991 1992 EAST WEST	2 1993 1994	1995 1996 1	Further information	once
3.21.15) Wording 1992 III. Compostacle Financing product Time s 1982 No.	wft15 Ing of question petitiveness and technores to innovations exist estimates and technores are supported by the support of the support o	obst. to dev. of new mater logy pecially in the following scopes Label	s: new materials 1989 1990 1991 1992 EAST	2 1993 1994	1995 1996 1	Further information 997 rvey period	Survey frequency
3.21.15) Wording 1992 III. Compostacle Financing product Time s 1982 No.	wft15 Ing of question petitiveness and technoles to innovations exist estimates and technoles are supported by the support of the support o	obst. to dev. of new mater logy pecially in the following scopes Label	s: new materials 1989 1990 1991 1992 EAST WEST	2 1993 1994	1995 1996 1	Further information 997 rvey period	Survey frequency
3.21.15) Wording 1992 III. Compostacle Financing product Time s 1982 No. 3.21.16) Wording 1992	mg of question petitiveness and technores to innovations span of variable 1983 1984 198 Name Name wft16 ing of question	obst. to dev. of new mater logy pecially in the following scopes 1986 1987 1988 Label obst. to dev.of new interm	s: new materials 1989 1990 1991 1992 EAST WEST	2 1993 1994	1995 1996 1	Further information 997 rvey period	Survey frequency
3.21.15) Wording 1992 III. Compostacle Financin product Time s 1982 No. 3.21.16) Wording 1992 III. Compostacle Obstacle	mg of question petitiveness and technores to innovations span of variable 1983 1984 1984 Name Name wft16 ing of question petitiveness and technores to innovations exist estables span of variables 1983 1984 1984	obst. to dev. of new mater logy pecially in the following scopes 1986 1987 1988 Label obst. to dev.of new interm	new materials 1989 1990 1991 1992 EAST WEST	2 1993 1994	1995 1996 1	Further information 997 rvey period st and West 1992	Survey frequency
3.21.15) Wording 1992 III. Compostacle Financing product Time s 1982 No. 3.21.16) Wording 1992 III. Compostacle Financing Comp	mg of question petitiveness and technores to innovations span of variable 1983 1984 1984 Name Name wft16 ing of question petitiveness and technores to innovations exist estables span of variables 1983 1984 1984	obst. to dev. of new mater logy pecially in the following scopes Label obst. to dev. of new interm	new materials 1989 1990 1991 1992 EAST WEST	2 1993 1994	1995 1996 1	Further information 997 rvey period st and West 1992	Survey frequency

1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 EAST + WEST	Time s	pan of	variable	è																
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997				
											EAST +									
	No	Namo			Labol											Curvov	oriod		Cur	ov fro

No.	Name	_	_	Label	_	_	_	_	_	_	_	-	_	_	Survey	period	Survey frequency
INO.	Name			Label											Survey	periou	Survey frequency
3.21.17) wft17			obst. to	dev. of ne	ew function	onal solut	ions: fina	ncing						East ar	nd West 1992	once
Word	ing of qı	uestion															
1992																Further information	
III. Com	petitivene es to inno				e followir	ng scones											
Financi			Mot cope.	cially iii cii	c 10110 11 11	.B scopes	•										
produc	imovacio	5		new fund	ctional so	lutions fo	r existing	products	5			[1]					
Time	span of	variable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST + WEST							
No.	Name			Label											Survey	period	Survey frequency
140.	Name			Laber											Jaivey	periou	Salvey hequency
3.21.18	wft18			obst. to	dev. of fu	ndament	ally new _l	products:	financin	g					East ar	nd West 1992	once
Word	ing of qu	uestion															
1992																Further information	
	es to inno				e followir	ng scopes	:										
Financi			·	·													
						fundame	entally ne	w produc	cts			[1]					
Time	span of	variable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST + WEST							
No.	Name			Label						-		-	-		Survey	period	Survey frequency
, ,,,,,				20.00.											J	period.	our vey mequency
3.21.19) wft19			obst. to	dev. of ne	ew produ	ction and	process t	technolo	gies: finan	cing				East ar	nd West 1992	once
Word	ing of qu	uestion															
1992																Further information	
III. Com	petitivene es to inno				e followir	ng scopes											
Financi						·											
		·			new pro	duction o	r process	technolo	gies			[1]					
Time	span of	variable	9														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST + WEST							
No.	Name			Label											Survey	period	Survey frequency

E	East and West 1992	once
	Further information	
Seite 224		
		Further information

Financir Process	innovatio	ns in prod	duction			further a	utomatio	n				[1]							
Time s	pan of v	variable	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997				
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	EAST + WEST	1993	1994	1995	1996	1997				
No.	Name			Label												period		irvey freq	

			EAST + WEST			
	N					
No.	Name	Label		Survey	period	Survey frequency
	wft21 ng of question	obst. to dev. of new technical organisational structure	es: financing	East ar	nd West 1992	once
Obstacle Financir		t especially in the following scopes:	[1]		Further information	
Time s	span of variable 1983 1984	1985 1986 1987 1988 1989 1990 1991	1992 1993 1994 1995 EAST + WEST	1996 1997		
No.	Name	Label		Survey	period	Survey frequency
	wft22	obst. to dev. of new materials: information, consulting	g	East ar	nd West 1992	once
Obstacle Informa	petitiveness and teces to innovations existion, consulting innovations	nology t especially in the following scopes: new materials	[1]		Further information	
Time s	span of variable 1983 1984	1985 1986 1987 1988 1989 1990 1991	1992 1993 1994 1995 EAST + WEST	1996 1997		
No.	Name	Label	_	Survey	period	Survey frequency
3.21.23	wft23	obst. to dev. of new intermediate products: informati	ion, consulting		nd West 1992	once
1992					Further information	
Obstacle Informa	petitiveness and teces to innovations existion, consulting innovations	nology t especially in the following scopes: new intermediate product	ts [1]			
Time s	span of variable					
1982	1983 1984	1985 1986 1987 1988 1989 1990 1991	1992 1993 1994 1995	1996 1997		
			EAST + WEST			

No.	Name	Label	Survey period	Survey frequency

Wording of question

1992III. Competitiveness and technoObstacles to innovations exist es		scopes:			Further information
Information, consulting product innovations					
	new functional solut	ions for existing products	[1]		
Time span of variable					
1982 1983 1984 198	85 1986 1987	1988 1989 1990 1991	1992 1993 1994 19	995 1996 1997	
			EAST + WEST		
No. Name	Label			Survey	period Survey frequency
3.21.25) wft25	obst. to dev. of fund	amentally new products: informa	tion, consulting	East ar	nd West 1992 or
Wording of question					
1992					Further information
III. Competitiveness and techno Obstacles to innovations exist es Information, consulting		scopes:			
product innovations	fu	indamentally new products	[1]		
Time span of variable					
1982 1983 1984 198	85 1986 1987	1988 1989 1990 1991		995 1996 1997	
			EAST + WEST		
No. Name	Label			Survey	period Survey frequency
No. Name 3.21.26) wft26		production and process technolo	gies: info., consulting		period Survey frequency and West 1992 or
		production and process technolo	gies: info., consulting		
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno	obst. to dev. of new		gies: info., consulting	East ar	
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting	obst. to dev. of new blogy specially in the following s		gies: info., consulting	East ar	nd West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es	obst. to dev. of new blogy specially in the following s		gies: info., consulting	East ar	nd West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production	obst. to dev. of new blogy specially in the following s	scopes:		East ar	nd West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable	obst. to dev. of new blogy specially in the following s on new produ	scopes: ction or process technologies	[1]	East ar	nd West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production	obst. to dev. of new blogy specially in the following s on new produ	scopes:	[1] 1992 1993 1994 19 EAST +	East ar	nd West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable	obst. to dev. of new blogy specially in the following s on new produ	scopes: ction or process technologies	[1] 1992 1993 1994 19	East ar	nd West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable	obst. to dev. of new blogy specially in the following s on new produ	scopes: ction or process technologies	[1] 1992 1993 1994 19 EAST +	East ar	Further information
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable 1982 1983 1984 1984 No. Name	obst. to dev. of new blogy specially in the following son new produ	scopes: ction or process technologies	[1] 1992 1993 1994 19 EAST +	East ar 1995 1997 Survey	Further information Period Survey frequency
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable 1982 1983 1984 1984 No. Name 3.21.27) wft27	obst. to dev. of new blogy specially in the following son new produ	scopes: ction or process technologies	[1] 1992 1993 1994 19 EAST +	East ar 1995 1997 Survey	Further information
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable 1982 1983 1984 1984 No. Name 3.21.27) wft27 Wording of question	obst. to dev. of new blogy specially in the following son new produ	scopes: ction or process technologies 1988 1989 1990 1991	[1] 1992 1993 1994 19 EAST +	East ar Survey East ar	Further information Period Survey frequency and West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable 1982 1983 1984 1984 No. Name 3.21.27) wft27 Wording of question 1992 III. Competitiveness and techno	obst. to dev. of new produces to dev. of new produces to specially in the following state on new produces to see the second secon	ction or process technologies 1988 1989 1990 1991 mation: information, consulting	[1] 1992 1993 1994 19 EAST +	East ar Survey East ar	Further information Period Survey frequency
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable 1982 1983 1984 198 No. Name 3.21.27) wft27 Wording of question 1992	obst. to dev. of new plogy specially in the following: Label blogy obst. to further auto blogy specially in the following:	scopes: ction or process technologies 1988 1989 1990 1991 mation: information, consulting scopes:	1992 1993 1994 19 EAST + WEST	East ar Survey East ar	Further information Period Survey frequency and West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable 1982 1983 1984 1984 No. Name 3.21.27) wft27 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting	obst. to dev. of new plogy specially in the following: Label blogy obst. to further auto blogy specially in the following:	ction or process technologies 1988 1989 1990 1991 mation: information, consulting	[1] 1992 1993 1994 19 EAST +	East ar Survey East ar	Further information Period Survey frequency and West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable 1982 1983 1984 1984 No. Name 3.21.27) wft27 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting	obst. to dev. of new plogy specially in the following: Label blogy obst. to further auto blogy specially in the following:	scopes: ction or process technologies 1988 1989 1990 1991 mation: information, consulting scopes:	1992 1993 1994 19 EAST + WEST	East ar Survey East ar	Further information Period Survey frequency and West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable 1982 1983 1984 1984 No. Name 3.21.27) wft27 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production	obst. to dev. of new plogy specially in the following state of the production of the	scopes: ction or process technologies 1988 1989 1990 1991 mation: information, consulting scopes:	1992 1993 1994 19 EAST + WEST [1]	East ar Survey East ar	Further information Period Survey frequency and West 1992 or
3.21.26) wft26 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable 1982 1983 1984 1983 No. Name 3.21.27) wft27 Wording of question 1992 III. Competitiveness and techno Obstacles to innovations exist es Information, consulting Process innovations in production Time span of variable	obst. to dev. of new plogy specially in the following state of the second of the secon	scopes: 1988 1989 1990 1991 mation: information, consulting scopes:	1992 1993 1994 19 EAST + WEST [1]	East ar	Further information Period Survey frequency and West 1992 or

No.	Name			Label											Survey	period	Survey frequence	су
3.21.28	wft28			obst. to	dev. of n	ew techni	ical organisa	ationals	structure	es: info., c	onsulting				East ar	nd West 1992		once
Wordi	ing of qu	estion																
1002																Courth or information		
	petitivene															Further information		
	es to innov ation, cons		xist espec	cially in th	e followii	ng scopes	5:											
	innovatio		duction		new tec	hnical ord	ganisational	ctructu	roc][1]						
					TIEW LEC	Timical Org	samsacionai	- Structu	103			ןנ∸ו						
Time s	span of v	/ariabl	9															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
										EAST +								
										WEST								
No.	Name			Label											Survey	period	Survey frequenc	СУ
3.21.29) wft29			obst. to	dev. of n	ew mater	ials: qualific	cation o	f employ	yees					East ar	nd West 1992		once
Wordi	ing of qu	estion																
1992																Further information		
III. Com	petitivene															ruttiei iiioiiiiatioii		
	es to innov ation of e		•	cially in th	e followii	ng scopes	5:											
product	innovatio	ns					new mate	rials][1]						
												J						
Time s	span of v	/ariabl	9															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
										EAST +								
										WEST								
No.	Name			Label											Survey	period	Survey frequenc	СУ
3.21.30	wft30			obst. to	dev. of n	ew intern	nediate pro	ducts: q	ualificat	ion of em	ployees				East ar	nd West 1992		once
Wordi	ing of qu	estion																
1992																Further information		
III. Com	petitivene				o followi													
Qualific	es to innov ation of e	mployee		cially in th	e rollowii	ng scopes);											
product	innovatio	ns					new interi	mediate	produc	ts][1]						
	C																	
Times	span of v	/arıabl	2															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
										EAST +								
										WEST								
No.	Name			Label											Survey	period	Survey frequence	СУ
3.21.31	wft31			obst. to	dev. of n	ew functi	onal solutio	ns: qua	lification	of emplo	yees				East ar	nd West 1992		once
Wordi	ing of qu	estion																
1992																Further information		
III. Com	petitivene				o folla	200												
	es to innov ation of e			lally in th	e rollowii	ig scopes) .											
product	innovatio	ns		new fun	ctional sc	olutions fo	or existing p	roducts][1]						
				3.1														
Time s	span of v	/ariabl	2															
							1989	1990	1991	_	eite1 223	1994	1995	1996	1997	1		



No.	Name			Label											Survey	period	Survey frequency
3.21.32) wft32			obst. to	dev. of fu	ndament	allv new r	oroducts:	gualifica	ation of en	nplovees				East ar	nd West 1992	OI
	, 111132			0000.00	act. 01 14	aae	any new p	or oddets.	quamic	2011 01 011	ipioyees				2000 01	14 17 630 1331	<u>.</u>
Word	ing of qu	uestion															
																I=	
1992	petitivene	ess and te	chnology	,												Further information	
	les to innov				e followin	ng scopes	:										
	cation of e		•														
product	t innovatio	ns				fundame	entally ne	w produc	cts][1]					
							,					J,					
Time	span of v	variable															
1000	1002	4004	4005	4006	4007	4000	1000	1000	4004	4002	4002	4004	4005	4006	4007		
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST +							
										WEST							
		_	_		_	_	_	_	_	_	_	_	_	_	•		
No.	Name			Label											Survey	period	Survey frequency
3.21.33	wft33			obst. to	dev. of ne	ew prod :	and progr	ess techr	nologies.	qualificati	on of em	plovees			East ar	nd West 1992	OI
	! C			5.50. 10	501. OI IIC	p. ou. (and progr	200 (COIII	.5108163.	gaanneati	S. OI CIII	J.0 y CC3					
Word	ing of qu	iestion															
1992																Further information	
III. Com	petitivene																
	les to innov			ially in th	e followin	ng scopes	:										
	cation of e																
					new prod	duction o	r process	technolo	gies			[1]					
Time	span of v	variable	!														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
										EAST + WEST							
										VVEST							
No.	Name			Label											Survey	period	Survey frequency
															· · · · · · · · · · · · · · · · · · ·	period	
3.21.34	wft34			obst. to	further au	ıtomatioı	n: qualific	ation of e	employee	es					East ar	nd West 1992	OI
Word	ing of qu	uestion															
11010	6 0. 90																
1992																Further information	
	petitivene les to innov				e followin	na scones											
	cation of e			lany in th	e ronown	ig scopes	•										
Process	innovatio	ns in prod	uction			6						1,,,					
						turther a	automatio	n				[1]					
																1	
Time	cnan of	zariahla															
Time	span of v	variable															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1	
										EAST +							
										WEST							
No.	Name			Label											Survey	period	Survey frequency
2 21 25	s) wft35														Fact or	nd West 1992	
3.21.35	WIL33			obst. to	dev. of ne	ew techni	cal organi	is. structı	ures: qua	alification o	of employ	rees			rast gl	IU VVEST 1332	OI
Word	ing of qu	uestion															
1992																Further information	
III. Com	notitive	se and to	chnol	,													
	npetitivene				e followin	ng scopes	:										
Obstacl Qualific	les to innov	vations ex mployees	ist espec		e followin	ng scopes	:										
Obstacl Qualific	les to innov	vations ex mployees	ist espec				: ganisation	al ctourt	ıres][1]					

No.	Name			Label											Survey	period	Survey frequency
) wft36 ing of ques	estion		obst. to (dev. of ne	w materi	als: techn	ology prc	ocuremei	nt (externa	al)				East ar	nd West 1992	once
Obstacle Technol	petitiveness es to innovat logy procure innovations	tions exis ement (e	ist especi	ially in the	e followin		: new mate	:erials][1]				Further information	
Time s	span of val	1984	1985	1986	1987	1988	1989	1990	1991	1992 EAST + WEST	1993	1994	1995	1996	1997		
No.	Name			Label											Survey	, period	Survey frequency
) wft37 ing of ques			obst. to (dev. of ne	w interm	ediate pro	oducts: te	echnolog	gy procurer	ment (exi	ternal)			East ar	nd West 1992	once
Obstacle Technol	petitiveness es to innovat logy procure innovations	tions exis ement (e	ist especi	ially in the	e followin			ermediate	e product	:S][1]				Further information	

Obstacle					e followin	g scopes:									
			external)												
product i	innovatio	ns					new inte	rmediate	products	5		[1]			
Time s _l	pan of v	/ariable	2												
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
										EAST + WEST					
										W.131					

Survey period

Survey frequency

3.21.38)	wft38			obst. to o	dev. of ne	w function	onal soluti	ons: tech	nology p	rocureme	nt (exter	nal)			East ar	nd West 1992	once
Wordin	ng of qu	uestion															
1992 III. Comp Obstacle Technolo product i	s to innov	/ations ex i rement (kist espec external)	ially in the				products				[1]				Further information	
Time s	pan of v	/ariable	è														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 EAST +	1993	1994	1995	1996	1997		
										WEST							

No. Name	Label	Survey period	Survey frequency
3.21.39) wft39	obst. to dev. of fundamentally new products: technology procurement (external)	East and West 1992	once
	obst. to dev. of fundamentally new products, technology procurement (external)		

Wording of question

Name

No.

Label

1992		Further information
III. Competitiveness and technology	Seite 229	
Obstacles to innovations exist especially in the following scopes:		

	fundamental	ly new products	[1]		
Time span of variable 1982 1983 1984 1985	1986 1987 1988 19	989 1990 1991 1992 1993	1994 1995 1996	1997	
1702 1703 1704 1703	1900 1907 1900 13	EAST + WEST	1554 1555 1550	1557	
No. Name	Label			Survey period	Survey frequency
3.21.40) wft40 Wording of question	obst. to dev. of new production	and process technologies: tech. procure	ement (external)	East and West 1992	once
1992 III. Competitiveness and technology Obstacles to innovations exist espec Technology procurement (external)	ally in the following scopes:			Further information	n
Process innovations in production	new production or pro	ocess technologies	[1]		
Time span of variable 1982 1983 1984 1985	1986 1987 1988 19	989 1990 1991 1992 1993	1994 1995 1996	1997	
		EAST + WEST			
No. Name	Label			Survey period	Survey frequency
3.21.41) wft41 Wording of question	obst. to further automation: ted	chnology procurement (external)		East and West 1992	once
0					
1992 III. Competitiveness and technology Obstacles to innovations exist espec				Further information	n
	ally in the following scopes:	mation	_ [1]	Further information	n
III. Competitiveness and technology Obstacles to innovations exist espec Technology procurement (external)	ally in the following scopes:	mation	[1]	Further information	n
III. Competitiveness and technology Obstacles to innovations exist espect Technology procurement (external) Process innovations in production	ally in the following scopes: further autor	mation ————————————————————————————————————		Further information 1997	n
III. Competitiveness and technology Obstacles to innovations exist espect Technology procurement (external) Process innovations in production Time span of variable	ally in the following scopes: further autor	989 1990 1991 1992 1993 EAST +			Survey frequency
III. Competitiveness and technology Obstacles to innovations exist espect Technology procurement (external) Process innovations in production Time span of variable 1982 1983 1984 1985 No. Name 3.21.42) wft42	ally in the following scopes: further autor 1986 1987 1988 19	989 1990 1991 1992 1993 EAST +	1994 1995 1996	1997	
III. Competitiveness and technology Obstacles to innovations exist espect Technology procurement (external) Process innovations in production Time span of variable 1982 1983 1984 1985 No. Name	ally in the following scopes: further autor 1986 1987 1988 19 Label obst. to dev. of new technical of ally in the following scopes:	EAST + WEST	1994 1995 1996	1997 Survey period	Survey frequency once
III. Competitiveness and technology Obstacles to innovations exist espect Technology procurement (external) Process innovations in production Time span of variable 1982 1983 1984 1985 No. Name 3.21.42) wft42 Wording of question 1992 III. Competitiveness and technology Obstacles to innovations exist espect Technology procurement (external)	ally in the following scopes: further autor 1986 1987 1988 19 Label obst. to dev. of new technical of ally in the following scopes: new technical organisa	EAST + WEST	1994 1995 1996 mal)	1997 Survey period East and West 1992	Survey frequency once

Wording of question

3.22 Innovation and Kooperation

	petitivene															Further information		
To over	come obst	acles to ii	nnovatio	ns we prii		ed suppor						1						
					by our p	rofessiona	al associa	tion				[1]						
T: 100 0 0	of .	واطونسور																
	pan of			1006	1007	4000	4000	1000	1001	4002	4003	1004	1005	1006	1007			
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991		1993	1994	1995	1996	1997			
										EAST + WEST								
No.	Name			Label											Survey	period	Survey frequenc	Cy
2 24 44	C+ A A		I												Fact or	1.14 + 4002		
	wft44			overcom	ning of ob	st. require	es suppor	rt on fede	eral state	level					East ai	nd West 1992		once
Wordi	ng of qu	uestion																
1992 III. Com _l	petitivene	ess and te	chnolog	у												Further information		
To over	come obst	acles to i	nnovatio	ns we prii		ed suppor												
					on feder	al state le	evel					[1]						
	C																	
	pan of			1006	1007	4000	4000	1000	1001	4002	4003	1004	1005	1006	1007			
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991		1993	1994	1995	1996	1997			
										EAST + WEST								
No.	Name			Label											Survey	period	Survey frequenc	СУ
	6 : 4=																	
2 24 45															Cast a.	ad M/aat 1000		
3.21.45)				overcom	ning of ob	st. require	es suppor	rt on fede	eral level						East a	nd West 1992		once
Wordi	wft45 ng of qu	uestion		overcom	ning of ob	st. require	es suppor	rt on fede	eral level						East a			once
Wordi 1992 III. Comp	ng of qu	ess and te	chnolog	y				rt on fede	eral level						East an	nd West 1992 Further information		once
Wordi 1992 III. Comp	ng of qu	ess and te	chnolog	y	marily ned	ed suppor		rt on fede	eral level			1			East ar			once
Wordi 1992 III. Comp	ng of qu	ess and te	chnolog	y		ed suppor		rt on fede	eral level][1]			East ar			once
Wordi 1992 III. Comp	ng of que	ess and te	e chnolog nnovatio	y	marily ned	ed suppor		rt on fede	eral level][1]			East ar			once
1992 III. Comp	pan of	ess and te tacles to in	chnolog nnovatio	y ns we prii	marily ned	ed suppor al level	t											once
Wordi 1992 III. Comp	ng of que	ess and te	e chnolog nnovatio	y	marily ned	ed suppor		1990	1991	1992	1993	1994	1995	1996	East an			once
1992 III. Comp	pan of	ess and te tacles to in	chnolog nnovatio	y ns we prii	marily ned	ed suppor al level	t				1993		1995	1996				once
1992 III. Comp	pan of	ess and te tacles to in	chnolog nnovatio	y ns we prii	marily ned	ed suppor al level	t			1992 EAST +	1993		1995	1996				once
1992 III. Comp	pan of	ess and te tacles to in	chnolog nnovatio	y ns we prii	marily ned	ed suppor al level	t			1992 EAST +	1993		1995	1996	1997		Survey frequence	
Wordi 1992 III. Comp To overo 1982 No.	pan of value	ess and te tacles to in	chnolog nnovatio	y ns we prin 1986	narily ned	ed suppor ral level	1989	1990	1991	1992 EAST +	1993		1995	1996	1997 Survey	Further information period	Survey frequence	:Y
Time s 1982 No.	pan of value	variable	1985	y ns we prin 1986	narily ned	ed suppor al level	1989	1990	1991	1992 EAST +	1993		1995	1996	1997 Survey	Further information	Survey frequence	:Y
Time s 1982 No.	pan of value	variable	1985	y ns we prin 1986	narily ned	ed suppor ral level	1989	1990	1991	1992 EAST +	1993		1995	1996	1997 Survey	Further information period	Survey frequence	once
Wordi 1992 III. Comp To overo 1982 No. 3.21.46) Wordi 1992	pan of value	variable 1984	1985	y ns we prin	narily ned	ed suppor ral level	1989	1990	1991	1992 EAST +	1993		1995	1996	1997 Survey	Further information period	Survey frequence	:Y
Vordi 1992 III. Comp To overd No. 3.21.46) Wordi 1992 III. Comp	pan of value of quality pan of value of quality petitiveners with the petitiveners of quality petitive	variable 1984 uestion	chnolog nnovatio	1986 Label overcom	narily need on federal 1987	ed suppor ral level 1988 st. require	1989	1990	1991	1992 EAST +	1993	1994	1995	1996	1997 Survey	Further information period nd West 1992	Survey frequence	:Y
Vordi 1992 III. Comp To overd No. 3.21.46) Wordi 1992 III. Comp	pan of value of quality pan of value of quality petitiveners with the petitiveners of quality petitive	variable 1984 uestion	chnolog nnovatio	1986 Label overcom	narily need on feder	ed suppor ral level 1988 st. require	1989	1990	1991	1992 EAST +	1993		1995	1996	1997 Survey	Further information period nd West 1992	Survey frequence	:Y
Vordi 1992 III. Comp To overd No. 3.21.46) Wordi 1992 III. Comp To overd	pan of value obstance	variable 1984 uestion ess and te	echnolog nnovatio	1986 Label overcom	narily need on federal 1987	ed suppor ral level 1988 st. require	1989	1990	1991	1992 EAST +	1993	1994	1995	1996	1997 Survey	Further information period nd West 1992	Survey frequence	:Y
Time s 1992 III. Comp To overo No. 3.21.46) Wordi 1992 III. Comp To overo Time s	pan of questivened where obstantial pan of questivened come obstantial pan of questive	variable 1984 variable acles to in	echnolog nnovatio	yns we prin	narily need on feder 1987	ed suppor ral level 1988 st. require	1989	1990	1991 evel	1992 EAST + WEST		1994			1997 Survey	Further information period nd West 1992	Survey frequence	:Y
Vordi 1992 III. Comp To overd No. 3.21.46) Wordi 1992 III. Comp To overd	pan of value obstance	variable 1984 uestion ess and te	echnolog nnovatio	1986 Label overcom	narily need on federal 1987	ed suppor ral level 1988 st. require	1989	1990	1991	1992 EAST + WEST	1993	1994	1995	1996	1997 Survey	Further information period nd West 1992	Survey frequence	:Y

No	Namo	Lahol	0 11 004	Survey period	Survey frequency

No.

No.

Name

VI. Innovation and Kooperation

b) Wer utilised the following form(s) of cooperations for our

innovation activities (multiple answers possible):

Label

Name

Label

West 1995, 1999 East 1995, 1999

Survey period

Survey period

irregular irregular

Survey frequency

Survey frequency

Wording of question

1005																Country on information
1995		l 1/ a s : : -	-4:													Further information
	vation and						/:	•• ••								
	ır innovati		ties we co	operated	d with oth	ier compa	anies/inst	itutions								
in the ye	ars 1991 t	0 1995.														
		. 1		lra 1												
	yes, in fac	ct		[1] once												
				[2] 2-5 ti												
				[3] more	often											
		ı		ĺ												
	no															
1000																
1999		1.17														
	vation and															
	ır innovati		ties we co	operated	d with oth	ier compa	anies/inst	itutions								
in the ye	ars 1995 t	0 1999.														
	: 6			[4]												
	yes, in fac	CT		[1] once												
				[2] 2-5 ti												
				[3] more	often											
	no															
	•															
Time s	pan of v	ariable														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
													WEST			
													EAST			
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
	WEST															
	EAST															

3.22.2)	iuk2			no innov	ation coo	peration	with othe	r compar	nies/instit	cutions						1995, 1999 995, 1999	egular egular
Wordin	ng of qu	estion														,	J
a) For ou	ration and r innovati ars 1991 t	on activi		ooperated	I with oth	er compa	ınies/insti	tutions								Further information	
	yes, in fa	ct															
	no [1]																
	ration and r innovati ars 1995 t	on activit		ooperated	I with oth	er compa	ınies/insti	tutions									
	yes, in fa	ct															
	no [1]]													
Time s	pan of v	/ariable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
													WEST EAST				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
	WEST EAST																

3.22.3) iuk3	form of innovation cooperation: joint venture	West 1995, 1999	irregular
		East 1995, 1999	irregular
Wording of question			
1995, 1999		Further information	

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Time span of variable 1982			- Joint v	enture								[1]					
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST	Т	ime s	pan of v	/ariable	2												
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST		1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
WEST EAST																	
EAST CONTRACTOR OF THE CONTRAC		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013

•	••	_	_		_	_	_	_	_	_	_	_	_	_	6		6
No.	Name			Label											Survey	period	Survey frequency
3.22.4	iuk4			form of i	nnovatio	n coopera	tion: agre	ement a	hout R&D	,					West 1	1995, 1999	irregular
0.22.	TUKT			101111 01 1	movacio	псоорега	tion. agre	cilicit a	oout N&D	,						995, 1999	irregular
Word	ing of qι	_{lestion}													Last 15	<i>555</i> , 1555	Птедини
vvoid	ing or qu	aestion															
1995, 1	999															Further information	
	vation an	d Kooper	ation														
b) Wer	utilised the	e followin	g form(s)	of coope	rations fo	or our											
inno	vation acti	vities (mu	ultiple ans	wers pos	sible):												
	D9.D a	aroomon	+c							lra1							
	- KQD a	greemen	ıs							[1]							
Time	span of v	variable	9														
1000	1000	1001	1005	1006	1007	1000	1000	1000	1001	1000	1000	1001	1005	1006	1007		
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
													WEST				
													EAST				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
	_																
	WEST																
	EAST																

No.	Name			Label											Survey	period	Survey frequency
3.22.5)	iuk5			form of i	nnovatior	n coopera	tion: agre	ements a	about tec	hnology e	exchange				West 1	1995, 1999	irregular
															East 19	995, 1999	irregular
Wordi	ng of qu	estion															
																le u . c	
1995, 19	vation and	l Kooner	ation													Further information	
	itilised the	-		of coope	rations fo	r our											
	ation activ																
										le.a							
	- agreer	nents abo	out techn	ology exc	hange					[1]							
Time s	pan of v	/ariable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1302	1505	1304	1303	1300	1307	1300	1303	1330	1331	1332	1333	1334	1333	1330	1337		
													WEST				
													EAST				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
1998	1999	2000	2001	2002	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013		
	WEST																
	EAST																

3.22.6) iuk6 form of innovation cooperation: informal information exchange Wording of question	West 1995, 1999 East 1995, 1999	irregular irregular
1995, 1999 VI. Innovation and Kooperation b) Wer utilised the following form(s) of cooperations for our innovation activities (multiple answers possible): - informal information exchange	Further information	
Time span of variable		

Survey period

Survey frequency

Label

No.

Name

1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
													WEST EAST		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
	WEST EAST														

Name

Name

No.

Label

No.

Label

Survey period

Survey period

Survey frequency

Survey frequency

3.22.7	iuk7			form of i	innovatio	n coopera	ation: min	ority sha	reholding	;					West 1	.995, 1999	irr	egular
															East 19	995, 1999	irr	egular
Wordi	ng of qu	uestion																
																•		
1995, 19																Further information		
	vation and			of coops	rations fo	2												
	utilised the ation acti					or our												
			p.c a	, c. c p c c														
	- minori	ity shareh	nolding of	innovativ	ve compa	nies				[1]								
Time s	span of v	variable	۵															
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
													WEST					
													EAST					
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
	WEST																	
	EAST																	
No.	Name			Label											Survey	period	Survey frequency	,

3.22.8	iuk8			form of i	nnovatio	n coopera	ation: plac	ing of R8	D orders						West 1	.995, 1999	irregula
															East 19	995, 1999	irregula
Word	ing of qu	uestion															•
1995, 1	999															Further information	
	vation and																
	utilised the					or our											
inno	vation activ	vities (mu	iltiple ans	wers pos	sible):												
	- placing	g of R&D	orders to	other co	mpanies/	institutio	ns] _[1]							
	p	5 0			,]							
Time	span of v	variable	2														
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1902	1903	1304	1983	1980	1907	1900	1909	1990	1991	1992	1993	1994	1993	1990	1997		
													WEST				
													EAST				
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
	MECT																
	WEST EAST																

3.22.9) Wordi		uestion .		form of i	nnovation	n coopera	tion: othe	er forms								1995, 1999 995, 1999	regular regular
1995, 19 VI. Innov b) Wer u innov	ration and tilised the ation activ	e followin vities (mu	g form(s) Iltiple ans	of coope wers pos	sible):	r our				[1]						Further information	
Time s	pan of v	/ariable	1985	1986	1987	1988	1989	1990	1991	1992 Se	1993 eite 234	1994	1995 WEST EAST	1996	1997		

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
	WEST														
	EAST														

No.	Name			Label											Survey	period	Survey frequency
	iuk10	uestion		goal of co	ooperatio	ns: long-1	erm com	mitment								1995, 1999 995, 1999	irregula irregula
c) The co	vation and ooperation Irs were di - long-te	ns in the fi	eld of inr	novations	during th	ne last				[1]							
	span of v	variable 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1982													WEST EAST				
1982																	

No.	Name			Label											Survey	period	Survey frequency
3.22.11) Wordi	iuk11 ng of qu	uestion		goal of c	ooperatio	ns: short	-term rea	lisation o	f single R	&D plans						1995, 1999 995, 1999	irregulaı irregulaı
c) The co	vation and poperation rs were di	ns in the f rected at term reali	field of inr : isation of			ne last				[1]						Further information	
1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995 WEST EAST	1996	1997		
1998	1999 WEST EAST	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		

3.23 Adoption of external ideas/ inventions

	No.	Name			Label											Survey	/ period	Survey frequent	Cy
Adoption of external ideas/ inventions a) Our innovations of the last 5 years are based on the adoption of ideas/inventions/results of R&D of the own company only [1] (Please continue with question VII)					innovatio	ons base	d on ideas	/inventio	ns/findin	gs of the (company								once once
Time span of variable	Adoptio a) Our in	nnovation n of ideas	s of the la /invention	ast 5 year ns/result	rs are base][1]		(Please c	continue	with que	stion VII)				Further information		
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST EAST		•			2002	2003	WEST	2005	2006	2007	2008	2009	2010	2011	2012	2013			

Label Survey period Survey frequency Name No. Seite 235

WEST

EAST

	No.	Name			Label											Survey	period	Survey frequency	
	3.23.6)	extid6			stage of	externa	l ideas/inv	entions/f	indings w	hen adop	ted: idea	/concepti	on			West 2			once
	Wordi	ng of qu	uestion													East 20	004		once
	2004		1.1														Further information		
	b) At the	n of exter time of t ventions/i	he adopti	on to the	e own con		ne externa	l											
	,	idea/con						[1]											
	Time s	pan of v	variable	!															
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
							WEST EAST												
	No.	Name			Label											Survey	period period	Survey frequency	
	3.23.7)	extid7			stage of	externa	l ideas/inv	entions/f	indings w	hen adop	ted: R&D)				West 2			once
	Wordi	ng of qu	uestion													East 20	JU4		once
	2004	n of exter	rnal ideas	/ inventi	ons												Further information		
	b) At the		he adopti	on to the	e own con		ne externa	l											
		R&D						[1]											
	Time s	pan of v	variable	!															
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
							WEST EAST												
۱	No.	Name			Label											Survey	period	Survey frequency	
	3.23.8)	extid8			stage of	externa	l ideas/inv	entions/f	indings w	hen adop	ted: laun	ch of proc	duction			West 2			once
	Wordi	ng of qu	uestion													East 20	J04		once
	2004 Adoptio	n of exter	rnal ideas	/ inventi	ons												Further information		
	b) At the		he adopti	on to the	e own con		ne externa	I											
		launch of	f producti	on				[1]											
		pan of v																	
	1998	1999	2000	2001	2002	2003	2004 WEST	2005	2006	2007	2008	2009	2010	2011	2012	2013			
							EAST												
							EAST												
	No.	Name			Label		EAST		_	_						Survey	period	Survey frequency	
		Name extid9				externa	EAST	entions/f	indings w	hen adop	ited: mar	keting				West 2	2004	Survey frequency	once
	3.23.9)		uestion			externa		entions/f	indings w	hen adop	ited: mar	keting					2004	Survey frequency	
	3.23.9) Wordi	extid9 ng of qu			stage of	externa		entions/f	indings w	hen adop	ited: marl	keting				West 2	2004	Survey frequency	once
	3.23.9) Wording 2004 Adoption b) At the	extid9 ng of qu	rnal ideas he adopti	/ inventi on to the	stage of	npany th	l ideas/inv		indings w	hen adop	oted: marl	keting				West 2	2004 004	Survey frequency	once
	3.23.9) Wording 2004 Adoption b) At the	extid9 ng of quantum of exters time of t	r nal ideas he adopti results of	/ inventi on to the	stage of	npany th	l ideas/inv		indings w	hen adop	oted: mar	keting				West 2	2004 004	Survey frequency	once

Time span of variable

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
						WEST									
						EAST									

No.	Name			Label											Survey	period	Sui	rvey frequer	ісу
3.23.10)	extid10			external	ideas imp	lemented i	in coope	eration w	vith inver	ntor: yes,	several				West 2	2004			once
Wordi	ng of qu	estion													East 20	004			once
2004	n of exter	nal ideas	/ inventi	ons												Further information	on		
c) The ex		as/result	s of R&D		lemented	l in coopera	ation												
	yes, seve	ral			[[1	1]												
Time s	span of v	ariable)																
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013				
						WEST EAST													
No.	Name			Label											Survev	period	Sui	rvey frequer)CV
																		,	,
	extid11			external	ideas imp	lemented i	in coope	eration w	vith inver	ntor: yes,	one				West 20				once once
2004	ng of qu	estion														Further information	on		
Adoptio c) The ex		as/result	s of R&D		lemented	l in coopera	ation									, artifet mormane			
with the	yes, one	iaing invi	entor.		[[1	1]												
	span of v			2002	2002	2004	2005	2006	2007	2000	2000	2010	2011	2012	2012				
1998	1999	2000	2001	2002		WEST	2005	2006	2007	2008	2009	2010	2011	2012	2013				
						EAST													
No.	Name			Label	-	-					-	-	-	-	Survey	period	Sui	rvey frequer	ісу
3.23.12)	extid12			external	ideas imp	lemented i	in coope	eration w	vith inver	ntor: none	e				West 2	2004			once
Wordi	ng of qu	estion													East 20	004			once
2004 Adoptio	n of exter	nal ideas	/ inventi	ons												Further information	on		
c) The ex		as/result	s of R&D		lemented	l in coopera	ation												
	none				[[:	1]	(Please	continue	with que	estion VII)								
Time s	span of v	ariable)																
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013				
						WEST EAST													
No.	Name			Label		_									Survey	period	Suu	rvey frequer	ICV
																	Sui	- Symequel	
	extid13			participa	tion of inv	entors thr	ough: e	mploym	ent in exi	sting con	npany				West 20				once once
Wordi 2004	ng of qu	estion														Further information	on		
Adoptio	n of exter				in vour co	mpany and	d									. a. c.e. mormatic			

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without

incorporation

has the implementation of ideas been a commercial success?

e c	employm consultin	nent in ex nent in ne	ew compa	any				Via	[0]*]		success	[1]		success	[2]	*Only appears in case it was not ticked off if the incorporation has been successful or not
Time spa	1999	variable 2000	2001	2002		2004 WEST EAST	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No. N	Name			Label											Survey	period Survey frequency
3.23.14) e				participa	ation of in	ventors th	rough: (employme	ent in new	v compan	у				West 2 East 20	
Time spa	ere externollement employmemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymempl	rnal inver tation of nent in ex nent in ne	isting co	orporated en a comr mpany any	mercial su		2005	incorpor via	ation [0]* 2007	2008	with success	2010	2011	without success	[2]	*Only appears in case it was not ticked off if the incorporation has been successful or not
						WEST EAST										
No. N	Name			Label											Survey	period Survey frequency
3.23.15) e Wording				participa	ation of in	ventors th	rough: (consulting	or coope	eration co	ntract				West 2 East 20	
e c	ere externoplement employmemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymemploymempl	rnal inver tation of nent in ex nent in ne	isting co	orporated en a comr mpany any	mercial su		nd	incorpor	ation [0]*		with success	[1]		without success		*Only appears in case it was not ticked off if the incorporation has been successful or not
Time spa	an of v	variable 2000	2001	2002		2004 WEST	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No. N	Name			Label		EAST									Survey	period Survey frequency

Wording of question

2004																Further information
Adoption	n of exter	nal ideas	/ inventi	ions												
d) How w	vere exte	rnal inver	ntors inco	orporated	in your o	ompany a	nd									
has the i	mplemen	tation of	ideas bee	en a comr	mercial si	uccess?										
								incorpora	ation		with			without		
								via			success			success		
	employm	nent in ex	disting co	mpany												
	employm	nent in ne	ew compa	any												*Only appears in case it was not ticked off if
	consultin	g or coop	peration (contract												the incorporation has been successful or not
	other:								[0]*			[1]			[2]	
Time s _l	pan of v	/ariable	9													
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
						WEST										
						EAST										

3.24 Our company in the market

No. Name	Labei	Survey period	Survey frequency
3.24.1) uum1a	own share inGerman market revenues	East and West 2005	once
Wording of question			
Wording or question			

Our product line	German market	2005													Further information
German market Our product line ———————————————————————————————————	German market%	VI. Our	company	in the ma	rket										
	%					n the mar	ket of the	e above m	nentioned	product	line?				
our product line%															
								German	market						
Time span of variable	003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013		our prod	uct line						%					
Time span of variable	003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013														
Time span of variable	003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013														4
Time span of variable	003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013														
Time span of variable	003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013														
	003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013		pan of v	variable	!										
	003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	rime s													
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013		rime s													

No. Name	Label	Survey period	Survey frequency
3.24.2) uum1b	own share in world market revenues	East and West 2005	once

WEST EAST

Wording of question

005																Further information	
. Our c	ompany	in the ma	arket														
				n the mar	ket of the	above m	nentioned	product	line?								
						world ma	arket										
	our prod	uct line						%									
ime si	nan of v	variable	<u> </u>														
ime s _l	oan of v	variable	2														
				2002	2002	2004	2005	2006	2007	2008	2000	2010	2011	2012	2012		
ime s _l	oan of v	variable 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
				2002	2003			2006	2007	2008	2009	2010	2011	2012	2013		
				2002	2003		2005 WEST EAST	2006	2007	2008	2009	2010	2011	2012	2013		

NO. Name	Labei	Survey period	Survey frequency
3.24.3) uum 2 a	share of largest competitor in German market revenues	East and West 2005	once
Wording of question			

2005	Further information
VI. Our company in the market	
a) How is the revenue apportioned in the market of the above mentioned product line? Seite 240	

	largest c	ompetito	r			German		_%							
Time s	pan of v	variable)												
1998	1999	2000	2001	2002	2003		2005 WEST EAST	2006	2007	2008	2009	2010	2011	2012	2013

No.	Name			Label											Survey	period	Survey frequ	ency
3.24.4	uum2b)		share of	largest co	ompetitor	in world ı	market re	evenues						East ar	nd West 2005		once
Wordi	ng of qu	uestion																
2005																Further information		
Time s	largest company	ompetito	ortioned i			world m	arket	%										
1998	1999	2000	2001	2002	2003	2004	WEST EAST	2006	2007	2008	2009	2010	2011	2012	2013			
No.	Name			Label											Survey	period	Survey frequ	ency

3.24.5)	uum3a			share of	second/t	hird large	st compe	titors in G	German m	arket rev	enues/				East ar	nd West 2005	once
Wordin	ng of qu	estion															
2005																Further information	
VI. Our c	ompany	in the ma	rket														
a) How is	the reve	nue appo	rtioned i	n the mar	ket of the	e above n	nentioned	product	line?								
Time s _l				mpetitor			German	market	<u>,</u> %								
1000	1000	2000	2001	2002	2002	2004	2005	2006	2007	2000	2000	2010	2011	2012	2012		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
							WEST EAST										

No.	Name	Label												Survey	/ period		Survey frequen	СУ	
3.24.6)	uum3k														East ar	nd West 2005			once
Wordii	ng of qu	uestion																	
a) How is	the reve		ortioned i	n the mai		e above n	nentioned world ma		line? %							Further information	on		
Time s	pan of 1999	variable 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013				
							WEST EAST												

3.24.10)	uum5a			year of a	cquisition	n by anot	her compa	any							East ar	nd West 2005	once
Wordin	ng of qu	uestion															
2005	.0 -		1													Further information	
VI. Our c				ina shana	00 0001188	مريم مانه	company									Turther information	
b) During			ie ioliowi	ng chang	es occurr					و الماد و							
	- was pu		by anothe	er compai	ny	yes] [no		which ye	ear?						
Time s	pan of v	/ariable	2														
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
							WEST										
							EAST			Se	eite 242						

No.	Name	Label	Survey	period	Survey frequency
2 24 11) uum6	fusion with another company during last Events	Fact an	d West 2005	onco
) uum6	fusion with another company during last 5 years	EdSt dii	a west 2005	once
Word	ing of question				
2005 VI. Our	company in the market			Further information	
b) Durii	ng the last 5 years the follow	ving changes occurred in our company.			
	our company executed a fusion with a	yes no [1] [2]			
Time	span of variable				
1998	1999 2000 2001	2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	2013		
		WEST EAST			
No.	Name	Label	Survey	period	Survey frequency
				portou	our requestion
3.24.12	uum6a	year of fusion with another company	East an	d West 2005	once
Word	ing of question				
2005				Further information	
	company in the market ng the last 5 years the follow	ving changes occurred in our company.			
	our company executed a fusion with a	yes no which year?			
	executed a rusion with a		_		
Time	span of variable				
1998	1999 2000 2001	2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	2013		
		WEST			
		EAST CONTRACTOR OF THE CONTRAC			
No.	Name	Label	Survey	period	Survey frequency
3.24.13	uum7	company arised from company division during last 5 years	East an	d West 2005	once
Word	ing of question				
2005	_			Further information	
	company in the market ng the last 5 years the follow	ving changes occurred in our company.			
	our company	yes no			
	- arised from a company o	division [1] [2]			
Time					
	span of variable	2002 2003 2004 2005 2006 2007 2000 2000 2010 2011 2012	2012		
1998	1999 2000 2001	2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 WEST	2013		
		EAST			
No.	Name	Label	Survey	period	Survey frequency
3.24 14	uum7a	year of company division	Fast an	d West 2005	once
		year or company division	Last an	u west 2005	Office
	ing of question				
	company in the market			Further information	
b) Durii		ving changes occurred in our company.			
	our company arised from a company c	yes no which year? division	_		
Time	span of variable	Soite 242			

	4000	2000	2004	2002	2002	2004	2005 200	2007	2000	2000	2010	2044	2042	2042			ı
1998	1999	2000	2001	2002	2003	2004	WEST EAST	6 2007	2008	2009	2010	2011	2012	2013			
2 25	Abilitie	s and o	skills														
_		s ariu s			_	_		_	_	_	_	_	_				
No.	Name		-	Label		-			-					Survey	period	Survey f	requency
3.25.1	komp1			importar	nce of scie	entific ski	ills of employees	for innova	tions					East an	d West 2006		once
Word	ng of qu	estion															
a) How	ities and s important innovation	have the			and skills	of the er	mployees been								Further information		
	one mark p						no	less		important	V	very					
						ir	mportance	import	ant	·		nportant					
	scientific	skills					[1]		[2]	[3	3]		[4]				
Time s	span of v	/ariable															
1998	1999	2000	2001	2002	2003	2004	2005 200	6 2007	2008	2009	2010	2011	2012	2013			
							WES ⁻ EAST										
No.	Name			Label										Survey	period	Survey f	requency
3.25.2	komp2			importar	nce of ma	thematio	skills of employ	ees for inn	ovations					East an	d West 2006		once
Word	ng of qu	estion															
2006																	
VII. Abi a) How for the	lities and s important innovation one mark p	have the is in your	company		and skills	of the er	mployees been	less		important	V	very			Further information		
VII. Abi a) How for the	important innovation	have the is in your	company		and skills			less import	ant	important		very nportant			Further information		
VII. Abi a) How for the	important innovation	have the is in your er line ple	company		and skills		no		ant [2]	important	im	nportant	[4]		Further information		
VII. Abia) How for the Exactly	important innovation one mark p	have the as in your er line ple atic skills	company ase!		and skills		no mportance		_		im	nportant	[4]		Further information		
VII. Abia) How for the Exactly	important innovation one mark p mathema	have the as in your er line ple atic skills	company ase!		and skills		no mportance	import	_	[3	im	nportant	[4]	2013	Further information		
VII. Abia) How for the Exactly	important innovation one mark p mathema	have the as in your er line ple et ic skills	company ase!	, ?		iı	no mportance	import 6 2007	[2]	[3	im 3] [nportant		2013	Further information		
VII. Abia) How for the Exactly Time 9	important innovation one mark p mathema span of v 1999	have the as in your er line ple et ic skills	company ase!	2002		iı	no mportance [1]	import 6 2007	[2]	[3	im 3] [nportant	2012				
VII. Abia) How for the Exactly	important innovation one mark p mathema	have the as in your er line ple et ic skills	company ase!	, ?		iı	no mportance [1]	import 6 2007	[2]	[3	im 3] [nportant	2012		Further information period	Survey f	requency
VII. Abia) How for the Exactly Time 9	important innovation one mark p mathema span of v 1999	have the as in your er line ple atic skills variable 2000	2001	2002 Label	2003	2004	no mportance [1]	import 6 2007	2008	[3	im 3] [nportant	2012	Survey		Survey f	requency
VII. Abia) How for the Exactly Time 9 1998	mathema span of v 1999 Name	have the as in your er line ple et ic skills variable 2000	2001	2002 Label	2003	2004	no mportance [1] 2005 200 WEST EAST	import 6 2007	2008	[3	im 3] [nportant	2012	Survey	period	Survey f	
VII. Abia) How for the Exactly Time S 1998 No. 3.25.3 Wordi 2006 VII. Abia) How for the	mathema span of v 1999 Name komp3 ng of qu lities and s	have the as in your er line ple atic skills variable 2000 vestion skills have the as in your	following company	2002 Label importar	2003	2004 hnical sk	no mportance [1] 2005 200 WEST EAST	import 6 2007	2008 tions	[3	im 3]	nportant	2012	Survey	period	Survey f	
VII. Abia) How for the Exactly Time S 1998 No. 3.25.3 Wordi 2006 VII. Abia) How for the	mathema span of v 1999 Name komp3 ng of qu lities and simportant innovation	have the as in your er line ple atic skills variable 2000 skills have the as in your er line ple	following company	2002 Label importar	2003	2004 hnical sk	no mportance [1] 2005 200 WEST EAST ills of employees mployees been no	import 6 2007 6 innova	2008 tions	2009	2010 v im	2011 very mportant	2012	Survey	period nd West 2006	Survey f	
VII. Abia) How for the Exactly Time S 1998 No. 3.25.3 Word 2006 VII. Abia) How for the Exactly	mathema span of v 1999 Name lities and s important innovation one mark p	have the as in your er line ple atic skills variable 2000 skills have the as in your er line ple as skills	following company ase!	2002 Label importar	2003	2004 hnical sk	no mportance [1] 2005 200 WESTEAST ills of employees mployees been no mportance	import 6 2007 6 innova	2008 tions	2009 important	2010 v im	2011 very mportant	2012	Survey	period nd West 2006	Survey f	
VII. Abia) How for the Exactly Time S 1998 No. 3.25.3 Word 2006 VII. Abia) How for the Exactly	mathema span of v 1999 Name lities and s important innovation one mark p	have the as in your er line ple atic skills variable 2000 skills have the as in your er line ple as skills	following company ase!	2002 Label importar	2003	2004 hnical sk	no mportance [1] 2005 200 WESTEAST ills of employees mployees been no mportance	import 6 2007 6 import less import	2008 tions	2009 important	2010 v im	2011 very mportant	2012	Survey	period nd West 2006	Survey f	

No. Name Label Survey period Survey frequency

Wording of question

2006							Further information	
VII. Abilities and skills a) How important have the followin		e employees been						
for the innovations in your compan Exactly one mark per line please!	y?							
		no importance	less important	important	very important			
management skills		[1]	[2]	[3]	[4]			
Time span of variable								
1998 1999 2000 2001	2002 2003 200	2005 2006	2007 2008	2009 2010	2011 2012	2013		
		WEST						
		EAST						
No. Name	Label					Survey	period	Survey frequency
3.25.5) komp5	importance of reliability	v of employees for in	novations			East ar	nd West 2006	once
		, ,						
Wording of question								
2006 VII. Abilities and skills							Further information	
a) How important have the followin for the innovations in your compan		e employees been						
Exactly one mark per line please!		no	less	important	very			
		importance	important	mportant	important			
reliability		[1]	[2]	[3]	[4]			
Time span of variable								
Time span of variable					2011	2010		
1998 1999 2000 2001	2002 2003 200			2009 2010	2011 2012	2013		
		WEST EAST						
No. Name	Label					Survey	period	Survey frequency
No. Name	Label					Survey	period	Survey frequency
3.25.6) komp6	importance of persisten	nce of employees for	innovations				period nd West 2006	Survey frequency once
		nce of employees for	innovations					
3.25.6) komp6		nce of employees for	innovations			East ar		
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills	importance of persisten		innovations			East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the following for the innovations in your companions.	importance of persisten		innovations			East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin	importance of persisten	e employees been no	less	important	very	East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compan Exactly one mark per line please!	importance of persisten	e employees been no importance	less important		important	East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the following for the innovations in your companions.	importance of persisten	e employees been no	less	important		East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compan Exactly one mark per line please!	importance of persisten	e employees been no importance	less important		important	East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compan Exactly one mark per line please! persistence	importance of persisten	e employees been no importance [1]	less important	[3]	important [4]	East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! persistence Time span of variable	importance of persistenges abilities and skills of the y?	e employees been no importance [1] 04 2005 2006 WEST	less important [2]	[3]	important [4]	East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! persistence Time span of variable	importance of persistenges abilities and skills of the y?	e employees been no importance [1]	less important [2]	[3]	important [4]	East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! persistence Time span of variable	importance of persistenges abilities and skills of the y?	e employees been no importance [1] 04 2005 2006 WEST	less important [2]	[3]	important [4]	East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! persistence Time span of variable	importance of persistenges abilities and skills of the y?	e employees been no importance [1] 04 2005 2006 WEST	less important [2]	[3]	important [4]	East ar	nd West 2006	
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! Time span of variable 1998 1999 2000 2001 No. Name	g abilities and skills of the y? 2002 2003 2000 Label	e employees been no importance [1] 04 2005 2006 WEST EAST	less important [2]	[3]	important [4]	2013	Further information	Survey frequency
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! persistence Time span of variable 1998 1999 2000 2001	g abilities and skills of the y?	e employees been no importance [1] 04 2005 2006 WEST EAST	less important [2]	[3]	important [4]	2013	Further information	once
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! Time span of variable 1998 1999 2000 2001 No. Name	g abilities and skills of the y? 2002 2003 2000 Label	e employees been no importance [1] 04 2005 2006 WEST EAST	less important [2]	[3]	important [4]	2013	Further information	Survey frequency
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! Time span of variable 1998 1999 2000 2001 No. Name 3.25.7) komp7 Wording of question 2006	g abilities and skills of the y? 2002 2003 2000 Label	e employees been no importance [1] 04 2005 2006 WEST EAST	less important [2]	[3]	important [4]	2013 Survey East ar	Further information	Survey frequency
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! Time span of variable 1998 1999 2000 2001 No. Name 3.25.7) komp7 Wording of question 2006 VII. Abilities and skills a) How important have the followin	g abilities and skills of the y? Label importance of employed g abilities and skills of the	e employees been no importance [1] 04 2005 2006 WEST EAST ees' ability to work in	less important [2]	[3]	important [4]	2013 Survey East ar	Further information period and West 2006	Survey frequency
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! Time span of variable 1998 1999 2000 2001 No. Name 3.25.7) komp7 Wording of question 2006 VII. Abilities and skills	g abilities and skills of the y? Label importance of employed g abilities and skills of the	e employees been no importance [1] 04 2005 2006 WEST EAST ees' ability to work in	less important [2]	[3]	important [4]	2013 Survey East ar	Further information period and West 2006	Survey frequency
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! Persistence Time span of variable 1998 1999 2000 2001 No. Name 3.25.7) komp7 Wording of question 2006 VII. Abilities and skills a) How important have the following for the innovations in your companents.	g abilities and skills of the y? Label importance of employed g abilities and skills of the	e employees been no importance [1] 04 2005 2006 WEST EAST ees' ability to work in	less important [2]	[3]	important [4]	2013 Survey East ar	Further information period and West 2006	Survey frequency
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! Time span of variable 1998 1999 2000 2001 No. Name 3.25.7) komp7 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please!	g abilities and skills of the y? Label importance of employed g abilities and skills of the	e employees been no importance [1] 04 2005 2006 WEST EAST ees' ability to work in no importance	less important 2007 2008 a team for innovation important	tions	very important	2013 Survey East ar	Further information period and West 2006	Survey frequency
3.25.6) komp6 Wording of question 2006 VII. Abilities and skills a) How important have the followin for the innovations in your compane Exactly one mark per line please! Persistence Time span of variable 1998 1999 2000 2001 No. Name 3.25.7) komp7 Wording of question 2006 VII. Abilities and skills a) How important have the following for the innovations in your companents.	g abilities and skills of the y? Label importance of employed g abilities and skills of the	e employees been no importance [1] 04 2005 2006 WEST EAST ees' ability to work in e employees been no	less important 2007 2008 a team for innovations in the second s	[3] 2009 2010 tions	important [4]	2013 Survey East ar	Further information period and West 2006	Survey frequency

1998	1999	2000	2001	2002	2003	2004		2006 WEST EAST	2007	2008	2009	2010	2011	2012	2013		
No.	Name			Label											Survey	period	Survey frequency
	komp8			importan	nce of self	-reliance	e of employ	yees for	innovatio	ns					East ar	nd West 2006	once
a) How i for the i	lities and s mportant innovation one mark p	have the ns in your per line ple	company		and skills		mployees being the moment of the moment of the model of t		less importa	int][2]	importa		very important	[4]		Further information	
Time s	pan of v	variable															
1998	1999	2000	2001	2002	2003	2004		2006 WEST EAST	2007	2008	2009	2010	2011	2012	2013		
No.	Name			Label											Survey	period	Survey frequency
3.25.9)	komp9			importan	nce of em	plovees'	risk-taking	z behavio	our for inr	novations					East ar	nd West 2006	once
	ng of qu			porta	.00 0. 0	p.0,000		, 00.10110							2000 01		
a) How i for the i Exactly c	innovatior one mark p risk-takir	have the ns in your per line ple ng behavio	company ase! our		and skills		no mportance		less importa	int][2]	importa		very important	[4]		Further information	
Time s	pan of v	variable 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
1338	1999	2000	2001	2002	2003	2004		WEST EAST	2007	2008	2009	2010	2011	2012	2013		
No.	Name			Label			_				_		_		Survey	v period	Survey frequency
	komp1 ng of qu			importan	nce of cre	ativity of	⁻ employee	es for inn	ovations							nd West 2006	once
a) How i for the i Exactly c	innovatior one mark p creativity	have the ns in your per line ple	company ase!		and skills		mployees to no mportance		less importa	int][2]	importa		very important	[4]		Further information	
Time s	pan of v	variable 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
2330	1333	2300	2001	2002	2000	2004		WEST EAST	2007	2000	2003	2010	LOTI	_012	2013		

No. Name	Label	Survey period	Survey frequency
3.25.11) komp11	most important ability/skills of employees for innavtions	East and West 2006	once

2006																Further info	ormation				
/II. Abil	ities and																				
				nd skills th	nat are mo	ost															
	nt for you ne mark p			ities!																	
Exactly 0	пе шак р	ei coluiili	:				most		second n	nost	third mos	st									
							importa	nt	importar	nt	importan	t									
	scientific	skills						[1]													
	mathema	atic skills						[2]													
	technical	skills						[3]													
	manager	nent skill	ls					[4]													
	reliability	′						[5]													
	persister	ice						[6]													
	ability to	work in a	a team					[7]													
	self-relia	nce						[8]													
	risk-takir	ıg behavi	our					[9]													
	creativity	1						[10]													
Γime s	pan of v	/ariable	9																		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013						
								WEST													
								EAST													
No.	Norse	_	_	l ab al			_	_		_		_			Cooperation	n a ni e el		_	C		
No.	Name			Label											Survey	period			Survey fi	equen	У
3.25.12)	komp1	2		second r	nost impo	ortant abi	lity/skills	of emplo	yees for ir	nnavtion	S				East ar	d West 20	006				on
	og of gu																				

3.25.12) komp12	second m	nost impo	ortant abi	lity/skills	of employ	yees for i	nnavtion	5				East ar	nd West 2006	once
Wording of question														
2006VII. Abilities and skillsb) Please name the three abilities important for your innovation actExactly one mark per column!		at are mo	ost										Further information	
				most importar		second r importar		third mo importar						
scientific skills							[1]							
mathematic skills							[2]							
technical skills							[3]							
management skills							[4]							
reliability							[5]							
persistence							[6]							
ability to work in a team] [7]							
self-reliance][8]]		1					
risk-taking behaviour][9]] _[40]							
creativity							[10]							
Time span of variable														
1998 1999 2000 200	L 2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
					WEST EAST									

No. Name	Label	Survey period	Survey frequency
3.25.13) komp13	third most important ability/skills of employees for innavtions	East and West 2006	once
Wording of question			
2006		Further information	
VII. Abilities and skills		i di tilei illioillatioil	
	bilities and skills that are most		
important for your innovat	ion activities!		
Exactly one mark per column			
	most second most Seitfii 247 most		

							importar	nt	importan	t	importar	nt			
	scientific	skills										[1]			
	mathema	atic skills										[2]			
	technical	skills										[3]			
	manager	nent skill	S									[4]			
	reliability	,										[5]			
	persister	ce										[6]			
	ability to	work in a	a team									[7]			
	self-relia	nce										[8]			
	risk-takir	g behavi	our									[9]			
	creativity	'										[10]			
Time s	span of v	ariable	9												
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
								WEST							
								EAST							
3.26	Innova	tions i	n coop	eratio	n with	exte	rnal pa	rtners							

No. Name Label Survey period Survey frequency coop. with external partners were started/enhanced/continued East and West 2007 East and West 2009 once Wording of question

														Last ai	110 VVC3t 2003	Office
Wordi	ng of qι	estion														
Have intwith extra yes		been star ners in th	rted/enha ne year ur no	anced/imp nder revie	plemente ew?][2]	d in coop	eration								Further information	
Have in	vations in novations ernal part	been stai ners drin	rted/enha	anced/cor	ntinued in		tion									
Time s	span of v	/ariable	9													
1998	1999	2000	2001	2002	2003	2004	2005	2007 WEST EAST	2008	2009	2010	2011	2012	2013		

No. Name
Label

Survey period

Survey frequency

3.26.2-16) koex2-koex16

importance of coop. with certain market participants

East and West 2007

once

Wording of question

wording of question						
2007						Further information
VI. Innovations in cooperation with externa	•					
Have innovations been started/enhanced/im	plemented in coop	eration				
with external partners in the year under review	ew?					
yes no						
						*characteristics stand for:
If yes, what is the importance of cooperation		ket participants				
in the following regions for your product line	??					[0] no importance
						[1] less important
				other	research	[2] important
	customers	suppliers	competitors	companies	institutions	[3] very important
						[4] only ticked off
same administrative district						
as the own company + adjacent	koex2	koex5	koex8	koex11	koex14	
areas	[1][2][3][4]*	[1][2][3][4]*	[1][2][3][4]*	[1][2][3][4]*	[1][2][3][4]*	[4] results, in case the participating company ticked off a
						sector instead of marking the importance with [0] to [3].
rest of Germany	koex3	koex6	koex9	koex12	koex15	
	[1][2][3][4]*	[1][2][3][4]*	[1][2][3][4]*	[1][2][3][4]*	[1][2][3][4]*	
outside of Germany	koex4	koex7	koex10	koex13	koex16	
outside of definiting	[1][2][3][4]*	[1][2][3][4]*	[1][2][3][4]*	[1][2][3][4]*	[1][2][3][4]*	
			Se	eite 248		

Time span of variable											
1998 1999 2000 20	01 2002	2003	2004	2005	2007 WEST EAST	2008	2009	2010	2011	2012	2013

Label Survey period Survey frequency No. Name 3.26.17-32) koex17-koex32 East and West 2007 importance of partner companies from certain industries once Wording of question 2007 Further information VI. Innovations in cooperation with external partners Have innovations been started/enhanced/implemented in cooperation with external partners in the year under review? yes no *characteristics stand for: If these cooperations with other companies exist, what is the importance of partner companies [0] no importance from the following industries for these cooperations? [1] less important [2] important food or tobacco industry koex17 [1][2][3][4]* [3] very important textile, clothing or leather fabrication industry koex18 [1][2][3][4]* [4] only ticked off [1][2][3][4]* timber or furniture industry koex19 [1][2][3][4]* paper or printing industry koex20 [4] results, in case the participating company ticked off a sector instead of marking the importance with [0] to [3]. chemical or plastics industry, cokery koex21 [1][2][3][4]* metal industry koex22 [1][2][3][4]* glass, ceramics industry (non metallic mineral products) koex23 [1][2][3][4]* machine building industry koex24 [1][2][3][4]* Production of office and data processing equipment koex25 [1][2][3][4]* energy producing industry koex26 [1][2][3][4]* koex27 [1][2][3][4]* electrical engineering koex28 [1][2][3][4]* telecommunications, broadcasting koex29 [1][2][3][4]* medical/measurement engineering vehicle building industry koex30 [1][2][3][4]* koex31 [1][2][3][4]* service industry others (construction, commerce, etc.) koex32 [1][2][3][4]*

3.27 Innovation vouchers

2000

2002

Label

Label

2001

2003

2004

2005

2007

WEST EAST

2006

2008

2009

2010

2011

2012

2013

Survey period

Survey period

Survey frequency

Survey frequency

Time span of variable

1999

Name

1998

No.

No.

Name

3.27.1)	ig1			company	y is aware	of innova	ation voud	cher prog	ramme						East ar	nd West 2009	once
Wordin	ng of qu	uestion															
2009 VII. Inno a) In seve R&D inst	eral feder	ral states or compa		you awar	re of such		n in your	federal st	tate?	n externa	I					Further information	
Time s				2002	2002	2004	2005	2006	2007	2008	2000	2010	2011	2012	2012		
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009 WEST	2010	2011	2012	2013		

3.27.2) ig2 company has applied for voucher East and West 2009 once
Wording of question

EAST

2009

VII. Innovation vouchers
b) Has your product line applied for one or more innovation voucher(s) during the last two years?

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yes
[1] no
[2]

Time s	span of v	variable	1												
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
											WEST EAST				
No.	Name	_		Label		_									Survey

3.27.3	ig3			voucher	was gran	ted to coi	mpany								East ar	nd West 2009	once
Word	ing of qu	estion															
If yes	Have one	e or more	no		er(s) beer	n granted	to your p	roduct lin	ne?							Further information	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009 WEST EAST	2010	2011	2012	2013		
No.	Name			Label											Survey	period S	urvey frequency

3.27.4)	ig4			total valu	ue of rede	emed inr	novation v	ouchers	(euro)					East ar	nd West 2009	once
Wordin	ng of qu	estion														
2009 VII. Innov If yes			eemed inr	novation v	vouchers	(euro)							-		Further information	
Time s	oan of v	/ariable	<u>.</u>													
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2009 WEST EAST	2010	2011	2012	2013		

Label

Label

No.

Name

No. Name

3.27.5)	ig5			total cos	ts of inno	vation co	operatior	ıs subsidi	sed throu	gh vouch	ner (euro)				East ar	nd West 2009	once
Wordi	ng of qu	uestion															
	total cos in Euro (are suffi	operatior cient)	ns that we	ere subsid	ised thro	ugh innov	vation vol	ucher(s)						Further information	
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009 WEST EAST	2010	2011	2012	2013		

Survey period

Survey period

Survey frequency

Survey frequency

3.27.6) ig6	impact of voucher on frequency of innovation cooperations	East and West 2009	once
Wording of question			

	2009	Further information
,	VII. Innovation vouchers	
	c) If the innovation voucher program is unknown:	
,	What is the hypothetical impact for your product line of being granted an innovation voucher of about 7500€	
	to facilitate cooperations with external R&D institution with regards to Seite 250	

	the fra	quency o	f coopera	itions witl	n externa	l partners	in the pr	rocess of	innovatio	n		positive	no impact	negative	
Time s	pan of v	variable													
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
											WEST				
											EAST				

No.	Name			Label											Survey	period	Survey frequency
3.27.7)				impact o	f voucher	on numb	er of inno	ovation p	rojects						East ar	nd West 2009	onc
2009 VII. Inno c) If the i What is t	vation voinnovation the hypotate coope	ouchers n voucher hetical im	r progran	your prod	luct line o			innovatio	on vouche	er of abo	ut 7500€					Further information	
	the nu	mber of i	innovatio	n projects	5							positive	no impact	negative			
Time s	pan of v	/ariable	9														
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	WEST EAST	2010	2011	2012	2013		

3.27.8)	ig8			impact o	f voucher	on R&D	expenditu	ire							East ar	nd West 2009	once
Wordin	ng of qu	estion															
2009 VII. Inno c) If the i What is t to facilita	nnovation the hypot	n vouchei hetical im rations w	npact for with exter	your prod	luct line o			innovatio	on vouche	er of abou	ut 7500€	positive	no impact	negative		Further information	
Time s	pan of v	variable 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009 WEST EAST	2010	2011	2012	2013		

Survey period

Survey period

Survey frequency

Survey frequency

3.28 Information and communication technology

Label

Label

Name

No.

No.

Name

3.28.1)	comp			share of	employee	es whose	tasks req	uire the u	ise of a co	omputer					East ar	nd West 2011	once
Wordi	ng of qu	uestion															
2011																Further information	
How ma		yees (in 9	%) regula	rly need t	the follow	ving equi	pment to	execute	their								
					Compute	er	%	6									
Time s	pan of v	variable	<u>.</u>														
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
													WEST EAST				

1998

1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

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2010

2011

WEST EAST 2012

2013

No.	Name		Label										Surv	ey period	Survey frequency
3.28.6	6) invict		yes, we i	invested i	n new ict	-equipme	nt during	र last two	years				East	and West 2011	once
Word	ding of qu	estion													
2011														Further information	
Did you	႕ invest in f	fundamentally ne	w ict-equ	ipment d	uring the	last 2 yea	ars?								
			yes												
Time	span of w	/ariable													
1998	1999	2000 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011 2	012 201	3	
												WEST EAST			
No.	Name		Label										Surv	ey period	Survey frequency
							,								
	7) invexpi		expendit	ure on in	vestment	ts in new i	ct-equipr	ment (eu	ro)				East	and West 2011	once
2011	ing or qu	lestion												Further information	
	u invest in f	fundamentally ne	ew ict-equ	ipment d	uring the	last 2 ye	ars?								
			Euro ((Pleaqse e	estimate	if exact dis	sclosure i	is imposs	ible)						
	span of v														
1998	1999	2000 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011 2 WEST	012 201	3	
												EAST			
No.	Name		Label										Surv	ey period	Survey frequency
	8) noinvic		no, we a	id not inv	est in nev	w ict-equi _l	pment di	uring last	two years	S			East	and West 2011	once
2011	ding of qu	lestion												Further information	
	u invest in f	fundamentally ne	ew ict-equ	ipment d	uring the	last 2 yea	ars?							Turine members	
			no]										
Time	span of v	<i>r</i> ariable	l												
1998	1999	2000 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010		012 201	3	
												WEST EAST			
No.	Name		Label										Surv	ey period	Survey frequency
	9) mainit		main inv	estment i	in ict: it-e	equipment	: (comput	ter and ha	ardware)				East	and West 2011	once
2011	ding of qu	lestion												Further information	
	ct-equipmr	nt did you mainly	invest in?											Turtier mornings.	
		IT-equipment (computer and ha	ardware)												
		(66111)	ara ,												
Time	span of v	<i>r</i> ariable	ı												
1998	1999	2000 2001	2002	2003	2004	2005	2006	2007	2008 E	eite 253 2009	2010	2011 2	012 201	3	



No.	Name			Label											Survey	period	Survey frequency
3.28.10)	mainct			main inv	estment i	n ict: con	nmunicati	on equip	ment						East ar	nd West 2011	once
Wordi	ng of qu	uestion															
2011																rthey information	
2011																Further information	
What ict	t-equipmr	nt did you	mainly i	nvest in?													
		communi	cation ed	quipment													
Time s	span of v	variable															
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
													WEST EAST				
													LASI				
No.	Name			Label											Survey	period	Survey frequency
2 20 441	main	of+		ma = !:: *	0.0±	m total of									Eact -	nd Wort 2011	
5.26.11)	mainso	JIL		main inv	estment i	n ict: soft	ıware								east ar	nd West 2011	once
Wordi	ng of qu	uestion															
2011																Further information	
What ict	t-equipmr	nt did you	mainly i	nvest in?													
		software	Í														
		Software															
Time s	span of v	variable															
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
1338	1555	2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010		2012	2013		
													WEST EAST				
No.	Name			Label											Survey	period	Survey frequency
3.28.12)	loreorg	3		low degr	ee of rest	ructuring	g due to in	vestmen	ts in ict						East ar	nd West 2011	once
Wordi	ng of qu	uestion															
2011																Further information	
	extend d	id the ict-	investma	ants requi	ira rastru	cturing c	of internal	organica	ation?								
10 Wilat	i exteriu u	iu tile ict-	iiivestiiie	ints requ	ne restru	cturing c	n interna	Organisa	ition:								
		low degre	ee														
Time s	span of v	variable															
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
	1999												WEST				
	1999												EAST				
	1999																
	1999																
No.	Name			Label											Survey	period	Survey frequency
No.			_	Label			_								Survey	period	Survey frequency
		B			ree of res	tructurin	g due to i	nvestmer	nts in ict							period nd West 2011	Survey frequency once
3.28.13)	Name hireorg				ree of res	tructurin	g due to i	nvestmer	nts in ict								
3.28.13) Wordi	Name				ree of res	tructurin	g due to i	nvestmer	nts in ict						East ar	nd West 2011	
3.28.13) Wordi	Name hireorg	uestion		high deg											East ar		
3.28.13) Wordi 2011	Name hireorg	uestion		high deg							ite 254				East ar	nd West 2011	

		high deg	ree													I		
		0 2-8																
Time spa	an of v	ariable	ġ															
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
													WEST EAST					
No.	Name			Label											Survey	period	Survey frequer	псу
3.28.14) r	noreor	g		no restru	cturing d	lue to inv	estment i	n ict							East ar	nd West 2011		once
Wording	g of qu	estion																
2011																Further information		
To what e	xtend d	d the ict	-investm	ents requi	ire restru	icturing c	of interna	lorganis	ation?									
		no restru	ıcturing															
Time spa	an of v	ariable	2															
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
													WEST EAST					
No.	Name			Label											Survey	period	Survey frequer	псу
3.28.15) ii	nditde	р		investme	ent in ict i	nduced b	oy internal	l it-depar	tment						East ar	nd West 2011		once
Wording	g of qu	estion																
2011																Further information		
Investmen	nt in ict v	was indu	ced by															
		internal	IT-depart	ment														
Time spa	an of v	ariable	è															
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
													WEST EAST					
No. N	Name			Label											Survey	period	Survey frequer	псу
3.28.16) ii	ndcust	om		investme	ent in ict i	nduced b	y custom	ers							East ar	nd West 2011		once
Wording	g of qu	estion																
2011																Further information		
Investmen	nt in ict v	was indu	ced by															
		custome	rs															
Time spa	an of v	ariable	2															
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
													WEST EAST					
No. N	Name	-	-	Label	-	-	_	-	-	-	-	-	_	-	Survev	neriod	Survev frequer	ncv.

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investment in ict induced by internal it-management

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East and West 2011

once

3.28.17) inditmgmt

Wording of question Further information 2011 Investment in ict was induced by internal it-management Time span of variable 2000 2002 2012 1998 1999 2001 2003 2004 2005 2006 2007 2008 2009 2010 2011 2013 WEST EAST Survey period Survey frequency No. Name Label 3.28.18) indsuppl East and West 2011 once investment in ict induced by suppliers Wording of question 2011 Further information Investment in ict was induced by suppliers Time span of variable 1998 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 1999 WEST **EAST** Survey frequency Survey period No. Name Label 3.28.19) indextcons East and West 2011 once investment in ict induced by external it-consultancy Wording of question 2011 Further information Investment in ict was induced by external it-consultancy Time span of variable 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 WEST **EAST** Survey period Survey frequency Name Label No. 3.28.20) **indextbp** East and West 2011 once investment in ict induced by external business partners Wording of question 2011 Further information Investment in ict was induced by external business partners

Time span of variable

1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

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2010

2011

WEST

2012

2013

1998

_	_	<u></u>	
E.	А	51	Ī

No.	Name	Label	Survey period	Survey frequency
3.28.21	cstrknow	investment in ict constrained by lack of it-knowledge (employees)	East and West 2011	once
Wordi	ing of question			
2011			Further information	
	nent in ict is constrained by			
	lack of IT-knowle	dge of the employees		
Time s	span of variable			
1998	1999 2000 2001	2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	2013	
		WEST EAST		
No.	Name	Label	Survey period	Survey frequency
3 28 22	cstrcons	investment in ict constrained by high costs of external consultancy	East and West 2011	once
		investment in let constrained by high costs of external consultancy	Last and West 2011	Office
	ing of question			
2011	aget in ist is soustwained by		Further information	
ilivestii	nent in ict is constrained by			
	high costs of exte	ernal IT-consultancy		
Time s	span of variable			
1998	1999 2000 2001	2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	2013	
		WEST EAST		
No.	Name		Survey period	Survey frequency
		Label		
3.28.23	cstritpers	EAST	Survey period East and West 2011	Survey frequency once
3.28.23 Wordi		Label	East and West 2011	
3.28.23 Wordi	cstritpers ing of question	Label investment in ict constrained by lack of it-experts on regional labour market		
3.28.23 Wordi	cstritpers	Label investment in ict constrained by lack of it-experts on regional labour market	East and West 2011	
3.28.23 Wordi	cstritpers ing of question nent in ict is constrained by	Label investment in ict constrained by lack of it-experts on regional labour market	East and West 2011	
3.28.23 Wordi	cstritpers ing of question nent in ict is constrained by	Label investment in ict constrained by lack of it-experts on regional labour market	East and West 2011	
3.28.23 Wordi 2011 Investm	cstritpers ing of question nent in ict is constrained by	Label investment in ict constrained by lack of it-experts on regional labour market	East and West 2011	
3.28.23 Wordi 2011 Investm	ing of question ment in ict is constrained by lack of IT-experts	Label investment in ict constrained by lack of it-experts on regional labour market	East and West 2011	
3.28.23 Wordi 2011 Investm	ing of question ment in ict is constrained by lack of IT-experts	Label investment in ict constrained by lack of it-experts on regional labour market con regional labour market 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 WEST	Further information	
3.28.23 Wordi 2011 Investm	ing of question ment in ict is constrained by lack of IT-experts	Label investment in ict constrained by lack of it-experts on regional labour market con regional labour market 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	Further information	
3.28.23 Wordi 2011 Investm	ing of question ment in ict is constrained by lack of IT-experts	Label investment in ict constrained by lack of it-experts on regional labour market con regional labour market 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 WEST	Further information	
3.28.23 Wordi 2011 Investm 1998 No.	ing of question nent in ict is constrained by lack of IT-experts span of variable 1999 2000 2001 Name	Label investment in ict constrained by lack of it-experts on regional labour market c on regional labour market 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 WEST EAST	East and West 2011 Further information 2013 Survey period	Once
3.28.23 Wordi 2011 Investm 1998 No.	ing of question ment in ict is constrained by lack of IT-experts span of variable 1999 2000 2001	Label investment in ict constrained by lack of it-experts on regional labour market c on regional labour market 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 WEST EAST	Further information 2013	Once
3.28.23 Wordi 2011 Investm 1998 No.	ing of question nent in ict is constrained by lack of IT-experts span of variable 1999 2000 2001 Name	Label investment in ict constrained by lack of it-experts on regional labour market con regional labour market 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 WEST EAST Label	East and West 2011 Further information 2013 Survey period	Survey frequency
3.28.23 Wordi 2011 Investm 1998 No.	ing of question nent in ict is constrained by lack of IT-experts span of variable 1999 2000 2001 Name Name	Label investment in ict constrained by lack of it-experts on regional labour market con regional labour market 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 WEST EAST Label	East and West 2011 Further information 2013 Survey period	Survey frequency

insufficient regional supply of broad band

Time s	pan of v	/ariable													
1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
													WEST EAST		

No. Name	Label	Label					Survey frequency
3.28.25) cstritappl investment in ict constrained by lack of suitable it-applications					East ar	nd West 2011	once
Wording of question	1						
2011						Further information	
Investment in ict is constrained by							
lack of suitable IT-applications							
lack of suitable 11-applications							
Time span of variable	e						
1000 1000 2000	2004 2002 2002	2004 2005 2006 2	2002 2000	2010 2011	2012 2012		
1998 1999 2000	2001 2002 2003	2004 2005 2006 2	2008 2009	2010 2011	2012 2013		
				WEST			
				EAST			