

The Microcensus and the Official Firm Data for Germany

Two Examples from the Portfolio of the Research Data Centre of the Länder

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Outline

- RDC of the Länder
- Data Portfolio
- Data Access
- The Microcensus
- Official Firm Data for Germany (AFiD)

Outline

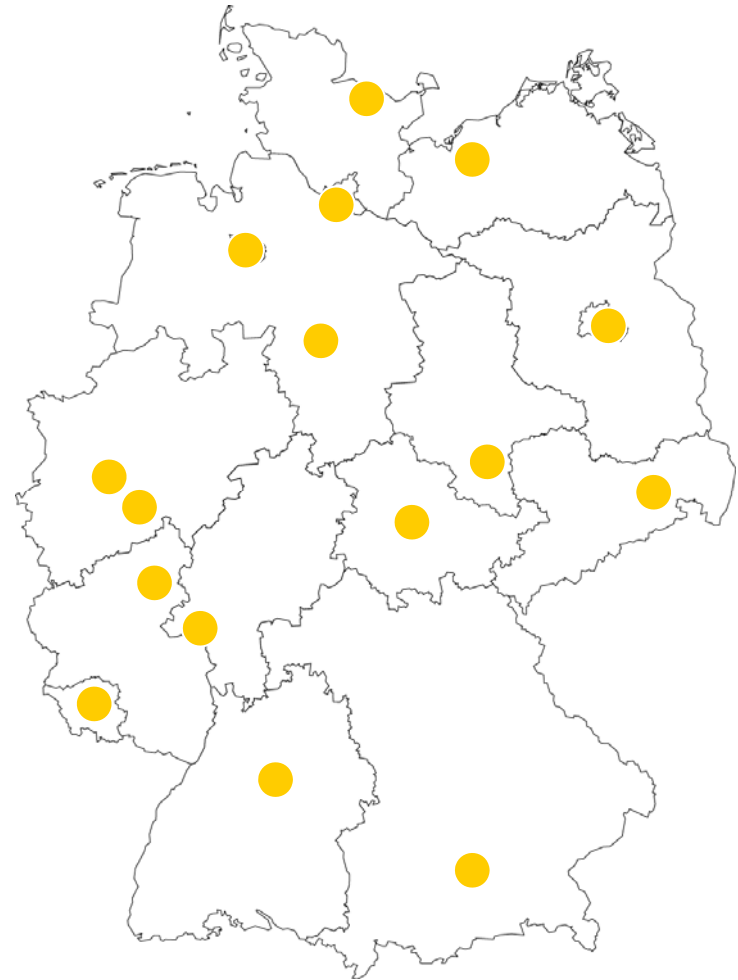
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Scope and Target Group

- Improvement of the information infrastructure between science and official statistics
- Eligible for data access are
 - ▶ *„Universities and other (German) institutions with the purpose of independent scientific research“ (§ 16,6 BStatG)*
- Some products can be used by other (non-scientific) facilities (e.g. Public-Use-Files)
- Coming up: Data use by foreign institutions

Locations

- Offices all over Germany
- 29 work stations for researchers
- Standard services at all locations



Differences to other products of official statistics

- Availability of microdata instead of aggregated data
- Flexible analysis
- Individual, project related analysis
- More in depth analysis

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Data Portfolio (1) – general overview

- Microdata for over 100 official statistics
- Various years and access ways
- More than 1.150 data materials
- Topics:
 - Social statistics
 - Economic statistics
 - Finance- and tax statistics
 - Legal statistics
 - Statistics about agriculture, energy and environment

Data Portfolio (2) - excerpt

Social statistics

- Households
- Population
- Education
- Health care
- Child- and youth welfare

Economic statistics

- Manufacturing companies
- Retail, tourism and service industries
- Construction and habitation
- Industrial and commercial branches (also overlapping)

Finance- and tax statistics

- Annual municipal debt
- Annual financial statements of public funds, institutions and companies
- Inheritance- and capital transfer tax
- Business tax

Agro-cultural-, energy- and environmental statistics

- Livestock and plantation
- Monthly statement of power and water suppliers
- Private water supply and sewage

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Data Access

- Off-Site
 - ▶ CAMPUS-FILE
 - ▶ Public-Use-File (PUF)
 - ▶ Scientific-Use-File (SUF)
- On-Site
 - ▶ Safe Centres (GWAP: **G**ast**w**issenschaftler**a**rbeits**p**latz)
 - ▶ Remote execution (KDFV: **k**ontrollierte **D**aten**f**ern**v**erarbeitung)

Data Access – Off-Site (1)



Campus-Files

- Absolute anonymized microdata
 - Means of anonymization: sub sampling, deletion and modification of variables
-
- Availability: microcensus, wages and earnings, farming etc.
 - Free download at www.forschungsdatenzentrum.de/campus-file.asp

Data Access – Off-Site (2)



Public-Use-Files

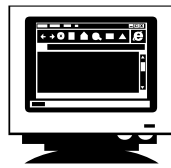
- Absolute anonymized microdata
- Only task/project related usage
- Liable to pay costs

Data Access – Off-Site (3)



- De facto anonymized microdata
- Standardized range of variables
- Limited regional structure (i.e. Bundesland or Gemeindegrößenklasse)
- Only colleges/universities and scientific institutes
- Liable to pay costs

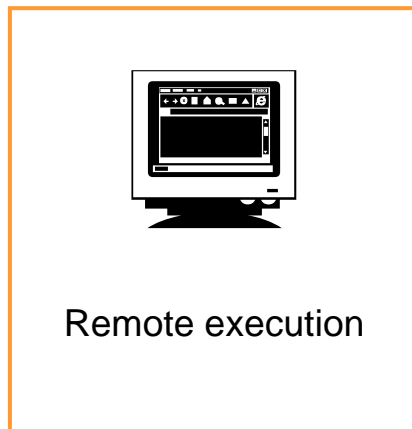
Data Access – On-Site (1)



Safe Centres

- De facto anonymized microdata
- Restricted physical access
- More detailed information
- Work stations run common softwares (i.e. SAS, SPSS, STATA, R)
- Liable to pay costs

Data Access – On-Site (2)



- Formally anonymized microdata
- No physical access to data
- Liable to pay costs



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Office
STATISTISCHE ÄMTER
DER LÄNDER
FORSCHUNGSDATENZENTRUM

STATISTICS
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/STATISTICS
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Data use – How to ...?

1. Information & consulting

2. Application form

- ▶ Institution, users, project name
- ▶ Required data (incl. list of variables, year(s))
- ▶ Data access mode
- ▶ Application form at www.forschungsdatenzentrum.de

3. Contract and commitment against misuse of the data

4. Data provision

5. Data use

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- **The Microcensus**
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What is ...? The Microcensus

- Multi-issue survey
- Single-strata clustersample that is partially rotated
- Approx. 1% of all persons living in Germany
- Survey on population and the labor market.
- Mainly with the obligation to give information (ogi)

Legal basis

- Bundesstatistikgesetz (BStatG) vom 22.01.1987, zuletzt geändert durch den Artikel 13 des Gesetzes vom 25.07.2013
- Gesetz zur Durchführung einer Repräsentativstatistik über die Bevölkerung und den Arbeitsmarkt sowie die Wohnsituation der Haushalte (Mikrozensusgesetz [MZG] 2005) vom 24.06.2004, zuletzt geändert durch das Gesetz zur Änderung des MZG 2005 vom 14.12.2012.
- Verordnung (EG) Nr. 577/98 zur Durchführung einer Stichprobenerhebung über Arbeitskräfte in der Gemeinschaft

Microcensus – analytic potential (1)

- Basic program (annual – 1%, ogi)
 - ▶ Means of subsistence and income
 - ▶ Migration and integration
 - ▶ Unemployment and search for employment
 - ▶ Education, vocational training and advanced training
 - ▶ Employment and former employments
 - ▶ Household, family, way of life

 - ▶ Labor force survey (EU)

Microcensus – analytic potential (2)

- Additional program (quadrennial – 1%, mainly ogi)
 - ▶ Health / retirement provision / ext. questions concerning migration (2005/2009)
 - ▶ Housing situation (2006/2010)
 - ▶ Earning capacity / health security (2007/2011)
 - ▶ Commuting / born children (2008/2012)

Microcensus – analytic potential (3)

- Ad-Hoc Module (annual – 0,1%, varying, voluntary = no ogi)
 - ▶ Job organisation and time management (2015)
 - ▶ Job opportunities of immigrants and their direct successors (2014/2008)
 - ▶ Work accidents and job related health problems (2013/2007)
 - ▶ Transition from work to retirement (2012/2006)
 - ▶ Employment of handicapped persons (2011/)
 - ▶ Compatibility of family and job (2010/2005)
 - ▶ Transition from school to work (2009)

The Microcensus – Modes of usage

Product	Sub-Sample	Regional Level	Year
CAMPUS-File	3,5%	Länder/Gemeindegrößenkl.	`76, `98, `02
Public-Use-File	50%	Länder/Gemeindegrößenkl.	`73, `82, `87, `91, `01
Scientific-Use-File	70%	Länder/Gemeindegrößenkl.	`73, `76, `78, `80, `82, `85, `87, `89, `91, `93, `95 to `10
Safe Centre	100%	Gemeinde and krf. Städte	`73, `76, `78, `80, `82, `85 to `11
Remote execution	100%	Gemeinde and krf. Städte	`73, `76, `78, `80, `82, `85 to `11

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What are ...? Official Firm Data for Germany (AFiD)

- Combine
 - ▶ Business statistics with other business statistics
 - ▶ Business statistics with environmental statistics
 - ▶ Data from the official statistics offices with other official statistics
- Various years
- Base: Business register

Legal basis

- § 13a Bundesstatistikgesetz:
Zusammenführung von Betriebs- und Unternehmensdaten aus verschiedenen Erhebungen der Amtlichen Statistik möglich

AFiD-Panel	German Classification of Economic Activities (WZ03)		Included surveys	Years	Characteristics	Enhancement by AFiD-Module ...
	Section	Description				
Agriculture	A	Agriculture, hunting and forestry	<ul style="list-style-type: none"> – Census of agriculture – Census of agricultural structure 	1999-2007 (biannual)	Structure and capacities of production, land use, employees	
Industrial Units	C D	Mining and quarrying Manufacturing	<ul style="list-style-type: none"> – Monthly report – Investment survey – Quarterly production survey – Survey of small units 	1995-2012	Employees, turnover (domestic and non-domestic), investments, wages and salaries, sale production value	<ul style="list-style-type: none"> – Use of energy – Water supply and waste water disposal – Environmental protection expenditure – Environmental protection commodities – Earnings
Industrial Enterprises			<ul style="list-style-type: none"> – Annual report – Investment survey – Cost structure survey 	2001-2012	Employees, turnover, investments, wages and salaries, material and commodities received, costs by type of costs, gross value added	<ul style="list-style-type: none"> – Environmental protection expenditure – Earnings (with limitations)
Energy Units	E	Electricity, gas and water supply	<ul style="list-style-type: none"> – Monthly report – Investment survey 	2003-2011	Employees, wages and salaries, investments	
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Trade	WZ 50 WZ 51 WZ 52	Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	<ul style="list-style-type: none"> – Annual survey in trade 	1999-2006	Employees, turnover, wages and salaries, stock / commodities received	
Hotel and Restaurant Industry	H	Hotels and Restaurants	<ul style="list-style-type: none"> – Annual survey in hotels and restaurants 	1999-2006	Employees, turnover, wages and salaries	
Services	I K	Transport, storage and communication Real estate, renting and business activities	<ul style="list-style-type: none"> – Structural survey in the services sector 	2003-2010	Employees, wages and salaries, turnover, taxes / subsidies	
Business Register	D–K M–O	All units and enterprises contributing to the gross domestic product	<ul style="list-style-type: none"> – German Business Register 	2002-2011	Economic activity, employees subject to social insurance contributions, turnover subject to taxation, corporate affiliation	

Malchin, A. and Voshage, R.: *Official Firm Data for Germany*. In: *Schmollers Jahrbuch 129*, 501-513. Berlin 2009

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Energy Enterprises			<ul style="list-style-type: none"> - Cost structure survey - Investment survey 	2003-2011	Employees, turnover, material and commodities received, costs by type of costs, taxes / subsidies	
Trade	WZ 50 WZ 51 WZ 52	Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	<ul style="list-style-type: none"> - Annual survey in trade 	1999-2006	Employees, turnover, wages and salaries, stock / commodities received	
Hotel and Restaurant Industry	H	Hotels and Restaurants	<ul style="list-style-type: none"> - Annual survey in hotels and restaurants 	1999-2006	Employees, turnover, wages and salaries	
Services	I K	Transport, storage and communication Real estate, renting and business activities	<ul style="list-style-type: none"> - Structural survey in the services sector 	2003-2010	Employees, wages and salaries, turnover, taxes / subsidies	
Business Register	D-K M-O	All units and enterprises contributing to the gross domestic product	<ul style="list-style-type: none"> - German Business Register 	2002-2011	Economic activity, employees subject to social insurance contributions, turnover subject to taxation, corporate affiliation	

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	Section	Description				
Agriculture	A	Agriculture, hunting and forestry	<ul style="list-style-type: none"> - Census of agriculture - Census of agricultural structure 	1999-2007 (biannual)	Structure and capacities of production, land use, employees	
Industrial Units	C D	Mining and quarrying Manufacturing	<ul style="list-style-type: none"> - Monthly report - Investment survey - Quarterly production survey - Survey of small units 	1995-2012	Employees, turnover (domestic and non-domestic), investments, wages and salaries, sale production value	<ul style="list-style-type: none"> - Use of energy - Water supply and waste water disposal - Environmental protection expenditure - Environmental protection commodities - Earnings
Industrial Enterprises			<ul style="list-style-type: none"> - Annual report - Investment survey - Cost structure survey 	2001-2012	Employees, turnover, investments, wages and salaries, material and commodities received, costs by type of costs, gross value added	<ul style="list-style-type: none"> - Environmental protection expenditure - Earnings (with limitations)
Energy Units	E	Electricity, gas and water supply	<ul style="list-style-type: none"> - Monthly report - Investment survey 	2003-2011	Employees, wages and salaries, investments	
Energy Enterprises			<ul style="list-style-type: none"> - Cost structure survey - Investment survey 	2003-2011	Employees, turnover, material and commodities received, costs by type of costs, taxes / subsidies	
Trade	WZ 50 WZ 51 WZ 52	Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	<ul style="list-style-type: none"> - Annual survey in trade 	1999-2006	Employees, turnover, wages and salaries, stock / commodities received	
Hotel and Restaurant Industry	H	Hotels and Restaurants	<ul style="list-style-type: none"> - Annual survey in hotels and restaurants 	1999-2006	Employees, turnover, wages and salaries	
Services	I K	Transport, storage and communication Real estate, renting and business activities	<ul style="list-style-type: none"> - Structural survey in the services sector 	2003-2010	Employees, wages and salaries, turnover, taxes / subsidies	
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Industrial Units	C D	Mining and quarrying Manufacturing	<ul style="list-style-type: none"> – Monthly report – Investment survey – Quarterly production survey – Survey of small units 	1995-2012	Employees, turnover (domestic and non-domestic), investments, wages and salaries, sale production value	<ul style="list-style-type: none"> – Use of energy – Water supply and waste water disposal – Environmental protection expenditure – Environmental protection commodities – Earnings
Industrial Enterprises			<ul style="list-style-type: none"> – Annual report – Investment survey – Cost structure survey 	2001-2012	Employees, turnover, investments, wages and salaries, material and commodities received, costs by type of costs, gross value added	<ul style="list-style-type: none"> – Environmental protection expenditure – Earnings (with limitations)
Energy Units	E	Electricity, gas and water supply	<ul style="list-style-type: none"> – Monthly report – Investment survey 	2003-2011	Employees, wages and salaries, investments	
Energy Enterprises			<ul style="list-style-type: none"> – Cost structure survey – Investment survey 	2003-2011	Employees, turnover, material and commodities received, costs by type of costs, taxes / subsidies	
Trade	WZ 50 WZ 51 WZ 52	Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	<ul style="list-style-type: none"> – Annual survey in trade 	1999-2006	Employees, turnover, wages and salaries, stock / commodities received	
Hotel and Restaurant Industry	H	Hotels and Restaurants	<ul style="list-style-type: none"> – Annual survey in hotels and restaurants 	1999-2006	Employees, turnover, wages and salaries	
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Industrial Units	C D	Mining and quarrying Manufacturing	<ul style="list-style-type: none"> - Monthly report - Investment survey - Quarterly production survey - Survey of small units 	1995-2012	Employees, turnover (domestic and non-domestic), investments, wages and salaries, sale production value	<ul style="list-style-type: none"> - Use of energy - Water supply and waste water disposal - Environmental protection expenditure - Environmental protection commodities - Earnings
Industrial Enterprises			<ul style="list-style-type: none"> - Annual report - Investment survey - Cost structure survey 	2001-2012	Employees, turnover, investments, wages and salaries, material and commodities received, costs by type of costs, gross value added	<ul style="list-style-type: none"> - Environmental protection expenditure - Earnings (with limitations)
Energy Units	E	Electricity, gas and water supply	<ul style="list-style-type: none"> - Monthly report - Investment survey 	2003-2011	Employees, wages and salaries, investments	
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Trade	WZ 50 WZ 51 WZ 52	Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	<ul style="list-style-type: none"> - Annual survey in trade 	1999-2006	Employees, turnover, wages and salaries, stock / commodities received	
Hotel and Restaurant Industry	H	Hotels and Restaurants	<ul style="list-style-type: none"> - Annual survey in hotels and restaurants 	1999-2006	Employees, turnover, wages and salaries	
Services	I K	Transport, storage and communication Real estate, renting and business activities	<ul style="list-style-type: none"> - Structural survey in the services sector 	2003-2010	Employees, wages and salaries, turnover, taxes / subsidies	
Business Register	D-K M-O	All units and enterprises contributing to the gross domestic product	<ul style="list-style-type: none"> - German Business Register 	2002-2011	Economic activity, employees subject to social insurance contributions, turnover subject to taxation, corporate affiliation	

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Industrial Units	C D	Mining and quarrying Manufacturing	– Monthly report – Investment survey – Quarterly production survey – Survey of small units	1995-2012	Employees, turnover (domestic and non-domestic), investments, wages and salaries, sale production value	– Use of energy – Water supply and waste water disposal – Environmental protection expenditure – Environmental protection commodities – Earnings
Industrial Enterprises			– Annual report – Investment survey – Cost structure survey	2001-2012	Employees, turnover, investments, wages and salaries, material and commodities received, costs by type of costs, gross value added	– Environmental protection expenditure – Earnings (with limitations)
Energy Units	E	Electricity, gas and water supply	– Monthly report – Investment survey	2003-2011	Employees, wages and salaries, investments	
Energy Enterprises			– Cost structure survey – Investment survey	2003-2011	Employees, turnover, material and commodities received, costs by type of costs, taxes / subsidies	
Trade	WZ 50 WZ 51 WZ 52	Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	– Annual survey in trade	1999-2006	Employees, turnover, wages and salaries, stock / commodities received	
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Services	I K	Transport, storage and communication Real estate, renting and business activities	– Structural survey in the services sector	2003-2010	Employees, wages and salaries, turnover, taxes / subsidies	
Business Register	D–K M–O	All units and enterprises contributing to the gross domestic product	– German Business Register	2002-2011	Economic activity, employees subject to social insurance contributions, turnover subject to taxation, corporate affiliation	

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Industrial Enterprises			<ul style="list-style-type: none"> – Annual report – Investment survey – Cost structure survey 	2001-2012	Employees, turnover, investments, wages and salaries, material and commodities received, costs by type of costs, gross value added	<ul style="list-style-type: none"> – Environmental protection expenditure – Earnings (with limitations)
Energy Units	E	Electricity, gas and water supply	<ul style="list-style-type: none"> – Monthly report – Investment survey 	2003-2011	Employees, wages and salaries, investments	
Energy Enterprises			<ul style="list-style-type: none"> – Cost structure survey – Investment survey 	2003-2011	Employees, turnover, material and commodities received, costs by type of costs, taxes / subsidies	
Trade	WZ 50 WZ 51 WZ 52	Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	<ul style="list-style-type: none"> – Annual survey in trade 	1999-2006	Employees, turnover, wages and salaries, stock / commodities received	
Hotel and Restaurant Industry	H	Hotels and Restaurants	<ul style="list-style-type: none"> – Annual survey in hotels and restaurants 	1999-2006	Employees, turnover, wages and salaries	
Services	I K	Transport, storage and communication Real estate, renting and business activities	<ul style="list-style-type: none"> – Structural survey in the services sector 	2003-2010	Employees, wages and salaries, turnover, taxes / subsidies	
Business Register	D–K M–O	All units and enterprises contributing to the gross domestic product	<ul style="list-style-type: none"> – German Business Register 	2002-2011	Economic activity, employees subject to social insurance contributions, turnover subject to taxation, corporate affiliation	

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Industrial Enterprises			<ul style="list-style-type: none"> – Annual report – Investment survey – Cost structure survey 	2001-2012	Employees, turnover, investments, wages and salaries, material and commodities received, costs by type of costs, gross value added	<ul style="list-style-type: none"> – Environmental protection expenditure – Earnings (with limitations)
Energy Units	E	Electricity, gas and water supply	<ul style="list-style-type: none"> – Monthly report – Investment survey 	2003-2011	Employees, wages and salaries, investments	
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Trade	WZ 50 WZ 51 WZ 52	Wholesale and retail trade, repair of motor vehicles, motorcycles and personal and household goods	<ul style="list-style-type: none"> – Annual survey in trade 	1999-2006	Employees, turnover, wages and salaries, stock / commodities received	
Hotel and Restaurant Industry	H	Hotels and Restaurants	<ul style="list-style-type: none"> – Annual survey in hotels and restaurants 	1999-2006	Employees, turnover, wages and salaries	
Services	I K	Transport, storage and communication Real estate, renting and business activities	<ul style="list-style-type: none"> – Structural survey in the services sector 	2003-2010	Employees, wages and salaries, turnover, taxes / subsidies	
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Industrial Units	C D	Mining and quarrying Manufacturing	– Monthly report – Investment survey – Quarterly production survey – Survey of small units	1995-2012	Employees, turnover (domestic and non-domestic), investments, wages and salaries, sale production value	– Use of energy – Water supply and waste water disposal – Environmental protection expenditure – Environmental protection commodities – Earnings
Industrial Enterprises			– Annual report – Investment survey – Cost structure survey	2001-2012	Employees, turnover, investments, wages and salaries, material and commodities received, costs by type of costs, gross value added	– Environmental protection expenditure – Earnings (with limitations)
Energy Units	E	Electricity, gas and water supply	– Monthly report – Investment survey	2003-2011	Employees, wages and salaries, investments	
Energy Enterprises			– Cost structure survey – Investment survey	2003-2011	Employees, turnover, material and commodities received, costs by type of costs, taxes / subsidies	
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Services	I K	Transport, storage and communication Real estate, renting and business activities	– Structural survey in the services sector	2003-2010	Employees, wages and salaries, turnover, taxes / subsidies	
Business Register	D–K M–O	All units and enterprises contributing to the gross domestic product	– German Business Register	2002-2011	Economic activity, employees subject to social insurance contributions, turnover subject to taxation, corporate affiliation	

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Industrial Enterprises			<ul style="list-style-type: none"> - Annual report - Investment survey - Cost structure survey 	2001-2012	Employees, turnover, investments, wages and salaries, material and commodities received, costs by type of costs, gross value added	<ul style="list-style-type: none"> - Environmental protection expenditure - Earnings (with limitations)
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Industrial Units	C D	Mining and quarrying Manufacturing	<ul style="list-style-type: none"> – Monthly report – Investment survey – Quarterly production survey – Survey of small units 	1995-2012	Employees, turnover (domestic and non-domestic), investments, wages and salaries, sale production value	<ul style="list-style-type: none"> – Use of energy – Water supply and waste water disposal – Environmental protection expenditure – Environmental protection commodities – Earnings
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AFiD – Analytic Potential

- Event History Analysis, e.g. WFC
- Measurement of internal und external effects, e.g. employee participation

AFiD – Modes of usage

- Safe Centre or Remote Execution
- 100% of the material
- But: different thresholds and regional levels

Useful links

- Microcensus
 - ▶ FDZ <http://www.forschungsdatenzentrum.de/bestand/mikrozensus/index.asp>
 - ▶ DESTATIS <https://www.destatis.de/DE/Meta/AbisZ/Mikrozensus.html>
 - ▶ GESIS <http://www.gesis.org/unser-angebot/daten-analysieren/amtliche-mikrodaten/mikrozensus/grundfile/>
- AFiD
 - ▶ FDZ <http://www.forschungsdatenzentrum.de/afid.asp>

Thank you for your attention!

Contact

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