

DIW Berlin – Deutsches Institut für Wirtschaftsforschung

Introduction to the Socio-economic Panel study

DIW Berlin, SOEP

Overview

1. What is Panel Data??
2. What is the SOEP?
 - a) Topics
 - b) Questionnaire
 - c) Structure
3. Enhancements
 - a) Spatial Data
 - b) SOEP-IS
 - c) Migrants & Refugees
 - d) Mother/Child Questionnaire
4. Data Access

What is Panel Data?

- Panel Data: Repeated measurements of many units at fixed time points

A) Cross-Section Data

	2000	2001	2002	2003	2004	2005	2006	2007
Unit 1				X				
Unit 2				X				
Unit 3				X				

B) Time-Series Data

	2000	2001	2002	2003	2004	2005	2006	2007
Unit 1	X	X	X	X	X	X	X	X
Unit 2								
Unit 3								

C) Panel Data

	2000	2001	2002	2003	2004	2005	2006	2007
Unit 1	X	X	X	X	X	X	X	X
Unit 2	X	X	X	X	X	X	X	X
Unit 3	X	X	X	X	X	X	X	X

D) Pooled Cross-Section Data

	2000	2001	2002	2003	2004	2005	2006	2007
Unit 1				X				
Unit 2					X			
Unit 3						X		

- ⇒ Match information from different phases of the life course
- ⇒ Control for time-constant characteristics (-> validate causal interpretations)
- ⇒ (Model sequentiality)
- ⇒ (Measure trends)
- ⇒ Decomposition of trends

Paper:

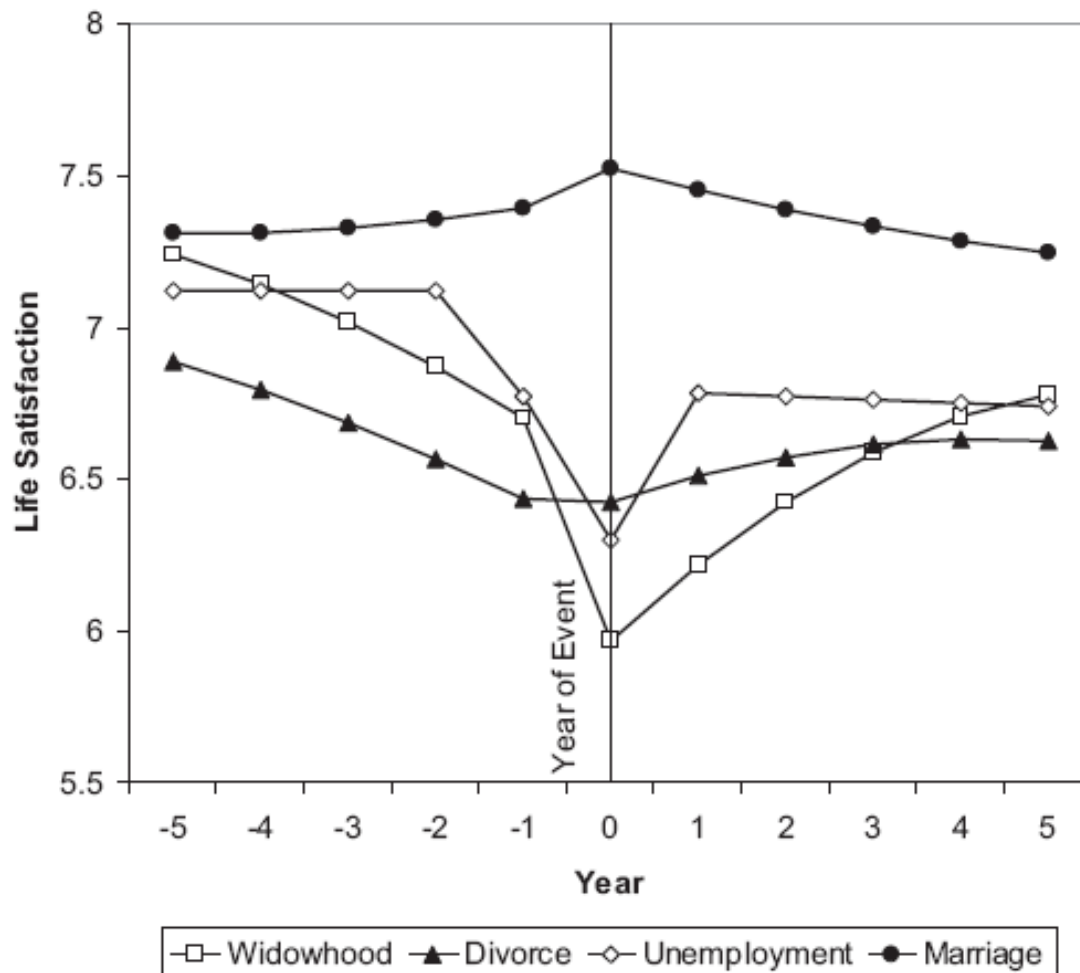
Giesselmann, Schröder, Giesecke, Haisken-DeNew, Rasner & Specht (2015)

Editorial: From Panel Data to Longitudinal Analytical Designs: a Note on Contemporary Research Based on Data from the Socio Economic Panel Study (SOEP). *Schmollers Jahrbuch* 135:1-11.

Advantages of Panel Data: Illustration

The consequences of life-events:

What is the influence of socio-demographic changes on life-satisfaction? (Diener et al. 2006)

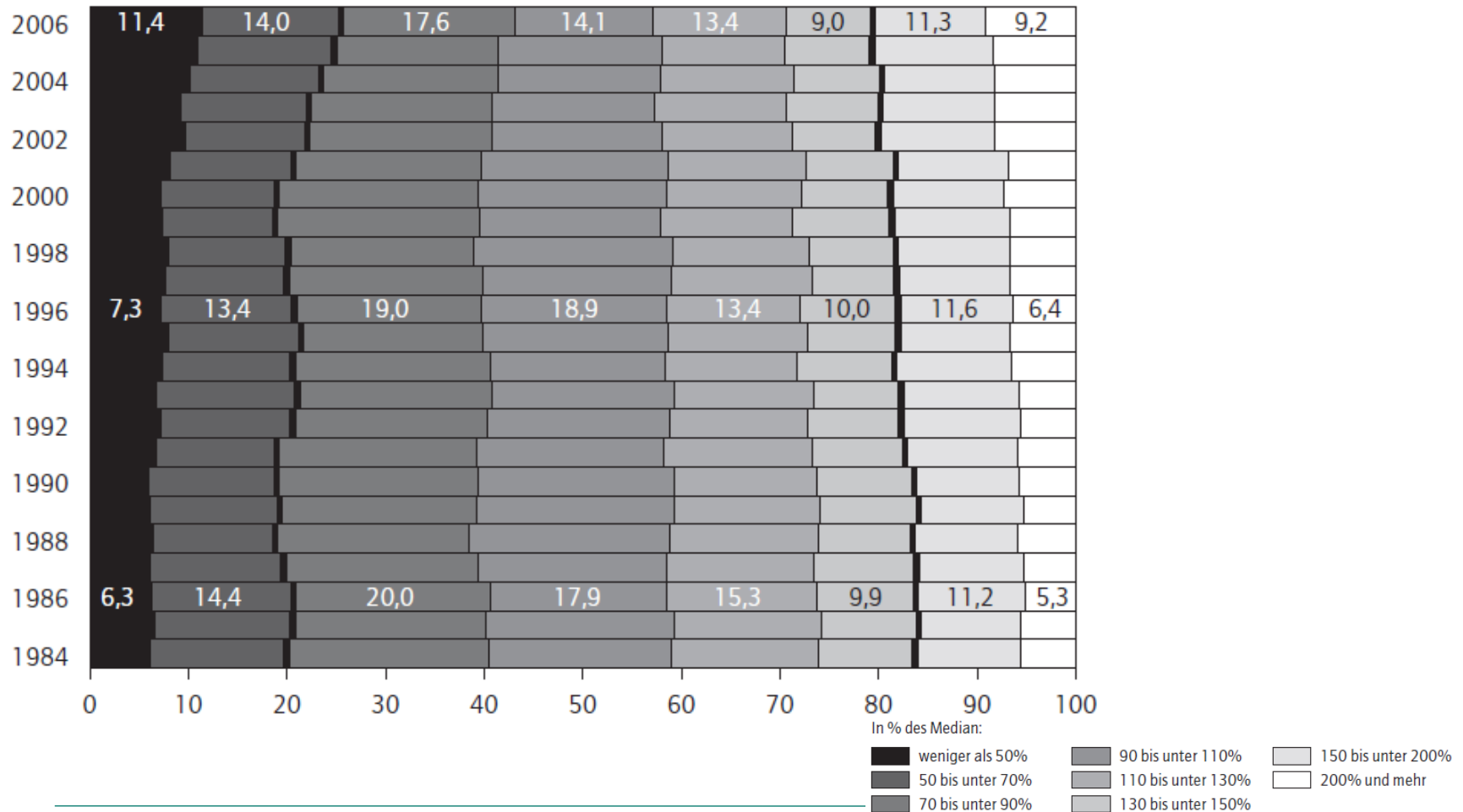
Figure 2*Adaptation to Good and Bad Events*

Advantages of Panel Data: Illustration

Distributional Analyses: The distribution of incomes in Germany over time

Einkommenschichtung in Deutschland¹ 1984 bis 2006

In Prozent, Einkommensposition auf Basis des jahresspezifischen Median



⇒ Attrition Bias

⇒ Panel Effects

⇒ Structural Disproportions

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What is the SOEP?

- Long running, representative yearly panel survey (since 1984)
- Large sample (in 2015 ~16.000 HH)
- Wide range of objective and subjective measures
- Part of social science research infrastructure

Paper:

Wagner, Frick & Schupp (2007):

The German socio-economic panel study (SOEP). Scope, evolution and enhancements. *Schmollers Jahrbuch : Zeitschrift für Wirtschafts- und Sozialwissenschaften ; journal of applied social science studies* 127:139-169.

- Interviews with all household members >17yrs. In sampled Households
- (Proxy-)Information on children
- Persons moving into SOEP-Household
- Persons leaving a SOEP-Household

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- Objective and subjective measures
- Multi-disciplinary commitment

Key Questions:

- ⇒ Demography
- ⇒ Education & Qualification
- ⇒ Labour Market Participation
- ⇒ Income / Wages
- ⇒ Housing
- ⇒ Health
- ⇒ Basic Orientations: Goals and Attitudes
- ⇒ Life Satisfaction

Rotating Questions:

- Family and social networks (1991, 1996, 2001, 2006, 2011, 2016)
- Time use and preferences (1990, 1995, 1998, 2003, 2008, 2013)
- Further education or training (1989, 1993, 2000, 2004, 2008, 2014)
- Social Security, assets (2002, 2007, 2012)
- Ecology and environmental behavior (1998, 2003, 2015)
- Big Five (2005, 2009, 2013)

Challenge: Observing the „*unobservable*“

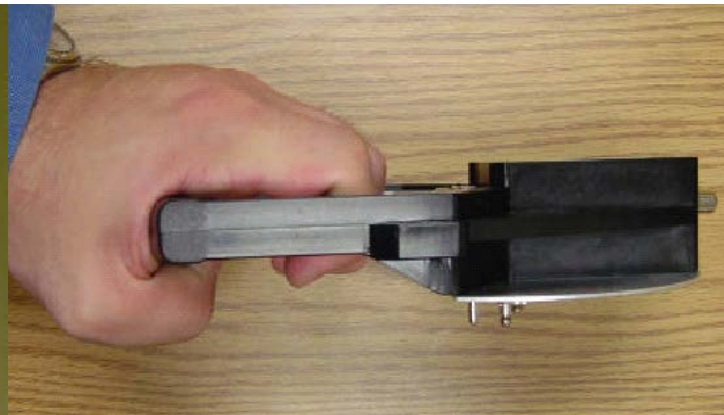
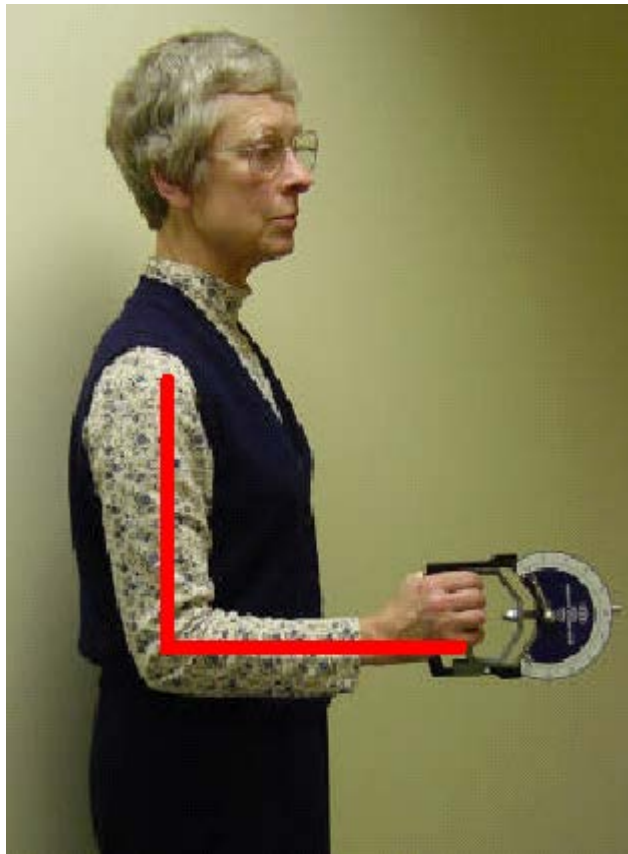
... and going beyond standard interview techniques

- Evaluation of health
(by taking grip strength)
- Evaluation of cognitive abilities
- Personal traits
(Big Five, risk aversion, trust, fairness, ...)

- ✓ Standard questions since 1984 (self-rated health status, disability status, sick days, # nights in hospital, ...)
- ✓ Improved health measures since 2002
 - ✓ SOEP-version of SF12 (physical and mental health status),
 - ✓ Self assessed Height, Weight, BMI in panel perspective (2004, 2006, 2008, 2010, 2012)
 - ✓ Smoking behavior (since 2002, 2004, 2006, 2008, 2010, 2012)
 - ✓ Alcohol consumption (2006, 2008, 2010, 2012)
 - ✓ Grip strength (2006, 2008, 2010, 2012) – see also SHARE / HRS

2a

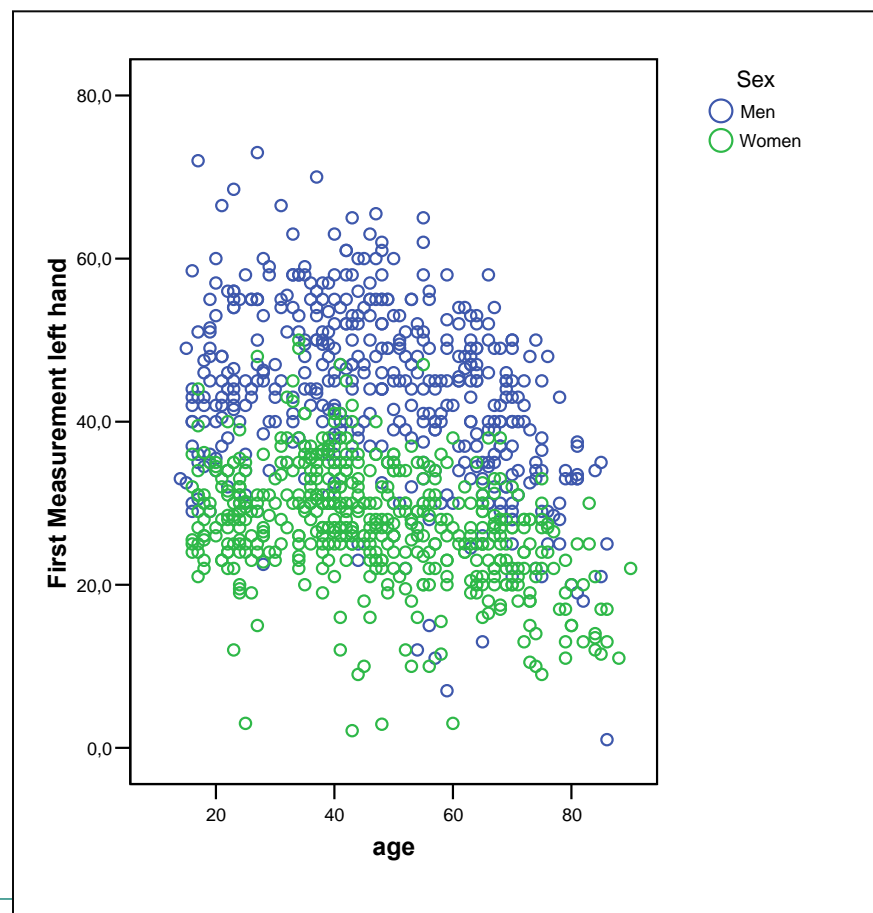
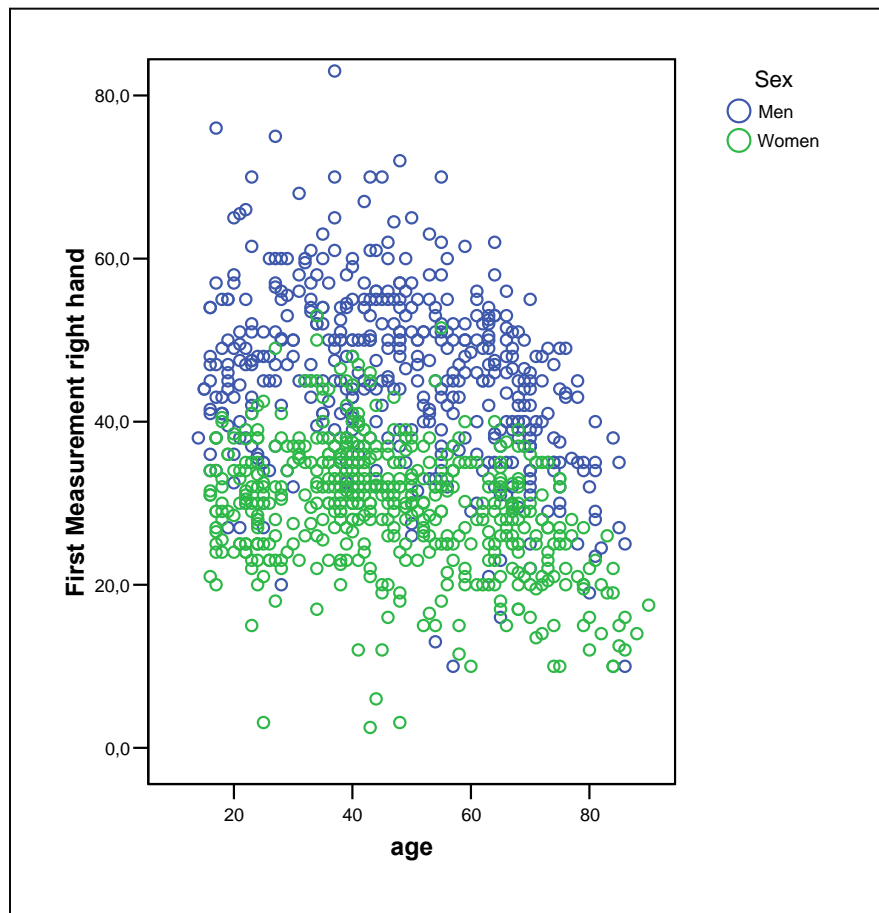
Measuring Grip Strength in SOEP



2a

Measuring Grip Strength in SOEP

Results of the SOEP-Pretest Grip Strength by Age and Sex



- 2 Ultra short tests (90 sec) for adult respondents
- Full ability measures (about 30 min) for teenagers, only

Paper:

Anger & Heineck (2009): Do Smart Parents Raise Smart Children?: The Intergenerational Transmission of Cognitive Abilities, SOEPpapers #156

Measures of cognitive ability:

2 ultrashort tests (Lang, 2005)

Symbol Correspondence test (fluid mechanics):

developed after the Symbol-digit-modalities-test (SDMT) by Smith (1973, 1995)

Respondents have 90 seconds to assign as many correct signs as possible to the consecutively displayed digits, while the appropriate assignment code is visible to them.

This test measures fluid mechanics, which refers to general and largely innate ability.

Word fluency test (crystallized pragmatics):

developed after the Animal-naming-task (Lindenberger and Baltes, 1995)

Respondents have 90 seconds to name as many different animals as possible.

This test measures crystallized pragmatics, which includes all cognitive abilities that consist of accumulated knowledge and skills acquired in the past.



Objectives

- *Gain insight in skill formation processes among young people (skill acquisition)*
- *Contribution to interdisciplinary research efforts on social disparities in educational attainment and labor market success*

Intelligence-Structure-Test

- *I-S-T 2000 R (Amthauer et al. 2001)*

Dimensions

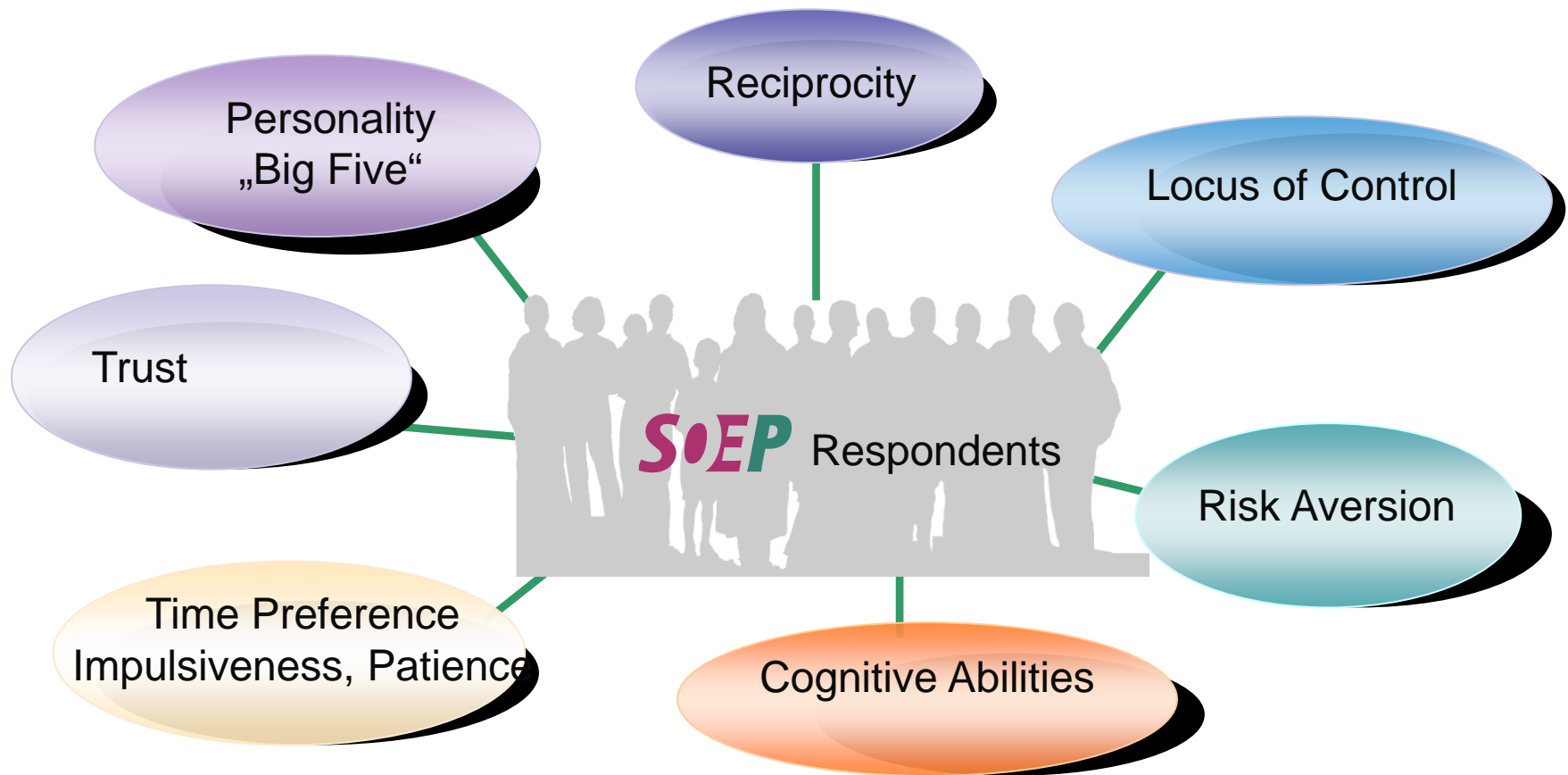
- *Verbal potential (analogies)*
- *Numerical potentials (number sequences)*
- *Figural potentials (matrices/pictorial material)*
- *Reasoning (= sum score)*

Survey

- *Test take about 30 minutes*
- *Participation rate about 90%*
- *Additional incentive: stop-watch*

Paper:

Solga, H.; Stern, E., B. v. Rosenblatt; Schupp, J.; G. G. Wagner (2006): The Measurement and Importance of General Reasoning Potentials in Schools and Labor Markets. DIW Research Notes 2006-10. DIW Berlin.





What about international Comparisons?



⇒ Standardization of Various Measures
(Focus: Income, Demographics, Employment, Health)

- | | | | |
|---|---------------|-------|--|
| ⇒ | USA | PSID | - Panel Study of Income Dynamics |
| ⇒ | Germany | SOEP | - German Socio-Economic Panel Study |
| ⇒ | Great Britain | BHPS | - British Household Panel Study |
| ⇒ | Canada | SLID | - Survey of Labour and Income Dynamics |
| ⇒ | Australia | HILDA | - Household, Income and Labour Dynamics in Australia |
| ⇒ | Switzerland | SHP | - Swiss Household Panel |
| ⇒ | Korea | KLIPS | - Korea Labor and Income Panel Study |



⇒ Standardization of Various Measures
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- ⇒ Germany SOEP - German Socio-Economic Panel Study
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- ⇒ Australia HILDA - Household, Income and Labour Dynamics
- ⇒ Switzerland SHP - Swiss Household Panel Study
- ⇒ Korea KLIPS - Korea Labor Income and Panel Study

Paper:

Frick, Jenkins, Lillard, Lipps and Wooden (2007): The Cross-National Equivalent File (CNEF) and its Member Country Household Panel Studies. *Schmoller's Jahrbuch - Journal of Applied Social Science Studies*. 127 (4): 627-654.

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Standard Questionnaires

- ⇒ Household Questionnaire (→ HI – Files)
- ⇒ Individual Questionnaire (→ PI - Files)

Biographic Interviews

- ⇒ New adult sample members (→ Biosoc, Bio...)
- ⇒ Grown-up children in sample HH (→ Bioage 17, \$page17)

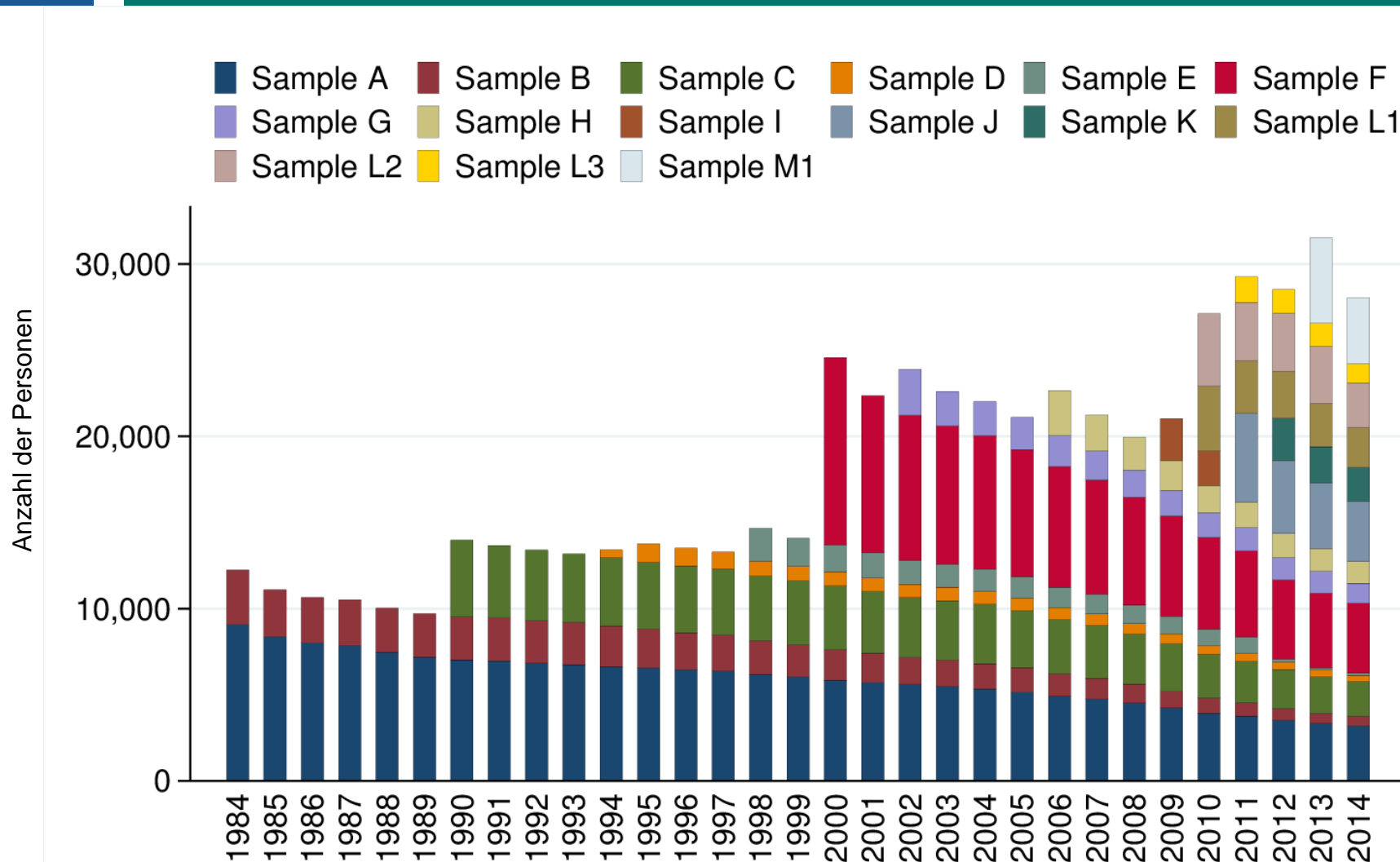
Additional Survey Instruments

- ⇒ Mother & Child Questionnaires (→ Bioagel)

- *Exit from the survey*
 - Death
 - Exmigration
 - Unit-Nonresponse

- *Entry to the survey:*
 - Drawn for original or refreshment sample
 - Birth in a SOEP Household
 - Moving into SOEP-Household
 - Household formation with a member from a former SOEP-Household

Development of Sample Size

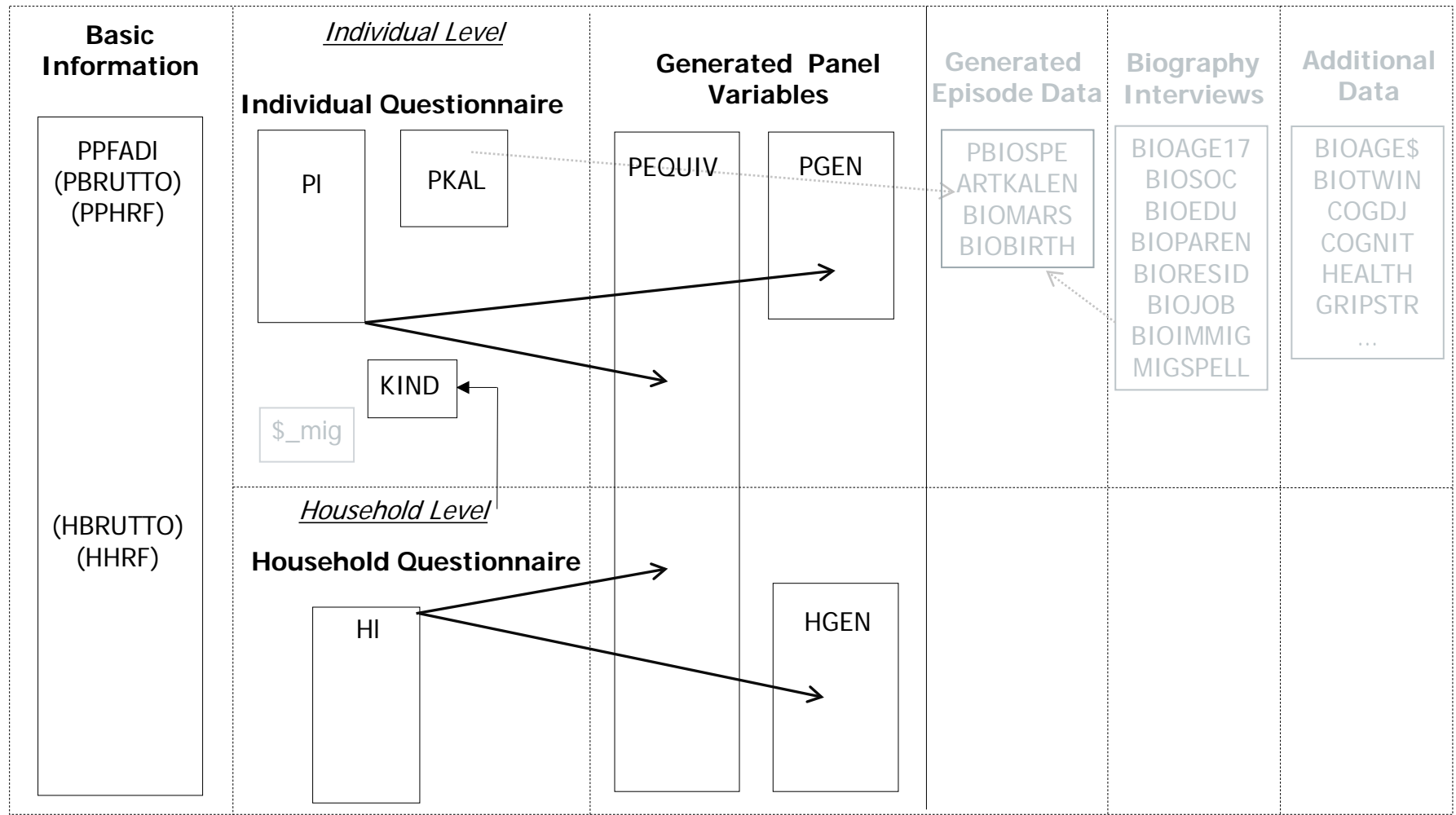


Paper:

Kroh, Martin, et al. 2015. *Documentation of Sample Sizes and Panel Attrition in the German Socio-Economic Panel (SOEP) (1984 until 2014)*. SOEP Survey Papers 297 : Series C. Berlin: SOEP/DIW.

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Code	Meaning
-1	no answer / don't know
-2	does not apply
-3	implausible value
-4	Inadmissable multiple response
-5	Not included in this version of the questionnaire
-6	Version of questionnaire with modified filtering
-8	<i>Question not part of the survey program this year*</i>

**Only applicable for datasets in long format.*

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Level	Available Since	Data Access	Data Protection
States (Bundesländer)	1984	Standard SOEP dataset (Scientific Use File)	Data distribution contract
Municipal size classes (e.g., Boustedt)	1984	Standard SOEP dataset with special password	Expanded data distribution contract on the use of municipal size classes & data protection concept
Spatial planning regions (geocodes)	1985	Standard SOEP dataset plus SOEP geocode disk	Expanded data distribution contract on the use of geocodes & expanded data protection concept
Official county codes (KKZ)	1985	SOEPremote (online access to county-level regional data) or at the SOEP Research Data Center at DIW Berlin	Expanded data distribution contract on the use of SOEPremote & SOEPremote access form
Official municipality key, postal codes, Microm neighborhood data	2000 1993 2000	Use of data only at the SOEP Research Data Center at DIW Berlin	Only by personal arrangements in the framework of our SOEP in residence program

2001	ROR	Kreise	Gemeinden	PLZ
# der Regionen	97	439	12141	17201
Anzahl (%) der Regionen mit SOEP Befragungspersonen	97 (100%)	439 (100%)	2561 (21,1%)	2420 (14,1%)
Durchschn. Anzahl von SOEP-HH (Personen)	113 (206)	25 (45)	4 (8)	4 (8)
Verfügbar für SOEP-Wellen seit...	1985	1985	2000	1993
Zugang	Zusatzvertrag (nur EU)	SOEPremote am DIW	Nur am DIW	Nur am DIW

- Zuspielung der microm Daten seit 2005
- Hohe Datenschutzanforderungen (4-Augen Prinzip mit Infratest)
- Eigentliche Zuspielung der Daten rückwirkend bis 2000
- Fokus der ersten Jahre auf Zuspielung der Daten möglichst kleinräumig
- Später auch “weitere” Umgebung der Haushalte
- Umstellung Marktzelle auf PLZ-8 Gebiete, mit Überlappung in 2010 und 2011

Soziodemographie**microm Sozio**

- » Status (Bildung, Beruf)
- » Alter (Ø des HHV)
- » Familienstruktur
- » Ausländeranteil

microm Ethno**microm Lebensphasen****microm Einwohner**

- » Gesamtzahl
- » nach Geschlecht
- » nach 17 amtlichen Altersklassen
- » nach Geschlecht und 17 amtlichen Altersklassen

Sozioökonomie**microm Sozio**

- » Status (Einkommensbestandteil)

microm Kaufkraft**microm Zahlungsindex****Soziokultur*****Sinus-Milieus®*****microm Geo Milieus®**

- » Milieuwahrscheinlichkeiten

**microm Geo Milieus®
Migranten**

- » Migrantenhaushalte
- » Milieuwahrscheinlichkeiten

***Lebensstilinformationen und
Konsumgewohnheiten*****microm B4P
(Best for Planning)****microm Automobile**

- » PKW Indikatoren
- » PKW Markendichte
- » PKW Segmente
- » PKW Haltertypologie

Wohnumfeld**microm Typologie**

- » 38 Typen
- » 10 Gruppen

Sozialraum**microm Basis**

- » Privathaushalte
- » Gewerbehaushalte
- » Gebäude

microm Bebauung

- » Haustyp
- » Straßentyp

microm Wohnen

- » Mieter
- » Eigentümer

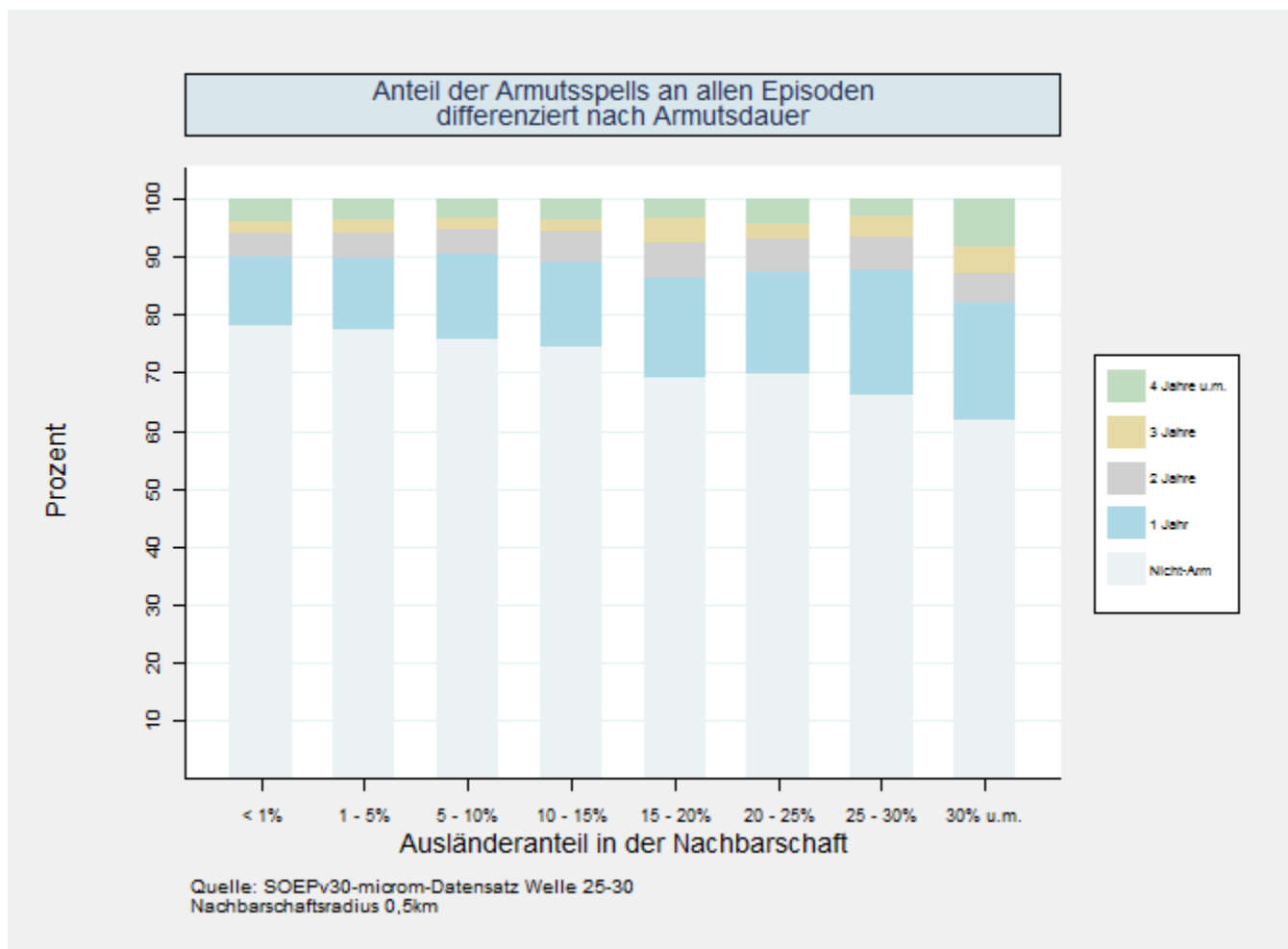
microm Mobilität

- » Umzugsvolumen
- » Umzugssaldo
- » Fluktuation

microm Arbeitslosenquote

Beispiel: Mikroanalysen mit Raumindikatoren

Jan Goebel und Lukas Hoppe (im Erscheinen): Ausmaß und Trends sozialräumlicher Segregation in Deutschland. Gutachten im Rahmen des 5. Armuts- und Reichtumsberichts im Auftrag des Bundesministeriums für Arbeit und Soziales.



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- Seit Herbst 2011: längsschnittliche Innovations-Stichprobe (ca. 5.000 HH)
- Methodische und thematische Innovationen:
 - Verhaltensexperimente und Interventionsstudien
 - ausführliche Kompetenzmessungen
 - implizite Assoziations-Tests (IAT)
 - komplexere Verfahren der Messung von Zeitverwendung (DRM)
 - „invasive“ Verfahren, genetische Studien
- Ansonsten ein zu großes Risiko hoher Ausfallraten für die Kern-SOEP-Stichprobe
- **Externe Wissenschaftler können und sollen sich um Befragungs- und Experimentier-Platz im SOEP-Innovationssample bewerben**

Inclusion of questions

- Application requirements:
 - 2-5-page scientific description in English
 - Description of the scientific rationale, type of sample, mode of data collection, repetition of the survey
 - Information on the total number of minutes required
- Evaluation criteria:
 - Scientific quality and significance
 - Suitability to the SOEP Innovation Sample
 - Feasibility of implementation

Data distribution of SOEP-IS

- All SOEP data are freely available to **all** researchers
(*scientific open access **after one year** of exclusive use*)
- This also applies to:
 - all of the different sets of questions and experiments submitted by external applicants
 - data collected with funding from external sources

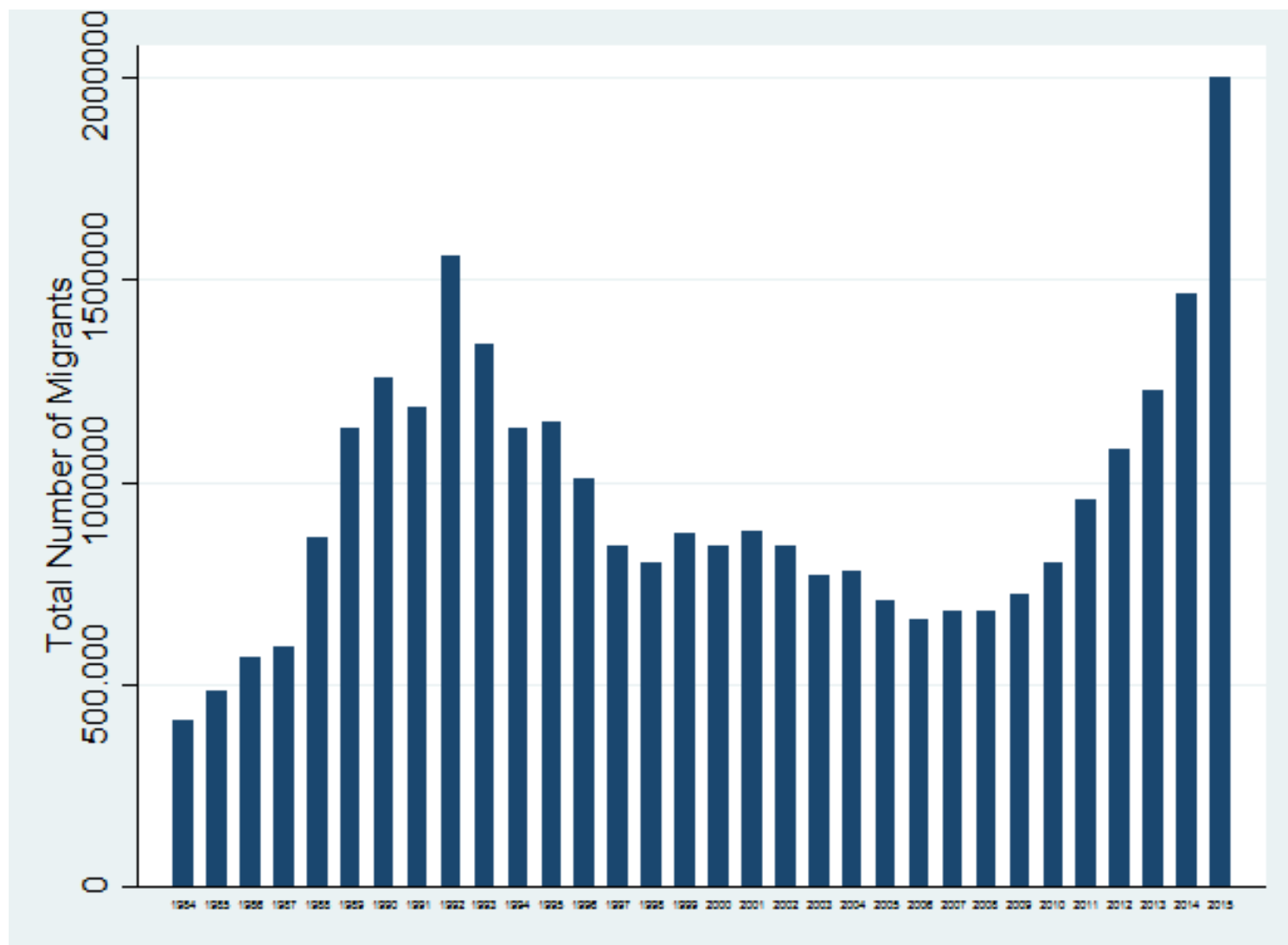
Paper:

Richter, D. & Schupp, J. (2015). The SOEP Innovation Sample (SOEP IS). Schmollers Jahrbuch, 135, 389-400.

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Total Number of Foreigners who immigrated to Germany, 1984-2015



Source. Statistical Office

- Existing Migration Samples in the SOEP (1984, 1994)
 - Immigration up to 1983 (“Guest Workers”, Sample B)
 - Immigration from 1984-94 (“Ethnic Germans”, Sample D)
 - General population refreshers (Samples E, H, K), with oversampling of migrants (Samples F and J)
- IAB-SOEP Migration Samples (2013, 2015)
 - Immigration between 1995-2012 and second-generation migrants (*Adult Anchor Person*, majority EU-25, Sample M1)
 - Immigration between 2009-14 (often EU-27, Sample M2)
- IAB-BAMF-SOEP Refugee Samples (both 2016)
 - Refugees between 2013-16 (*Adult Anchor Person*, Sample M3)
 - Refugees between 2013-16 (*Underage Anchor Persons*, M4)

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 - Refugees between 2013-14
 - Refugees between 2013-14

Paper:

Liebau, Elisabeth, and Ingrid Tucci (2015).

Migrations-und Integrationsforschung mit dem SOEP von 1984 bis 2012: Erhebung, Indikatoren und Potenziale.

No. 270. SOEP Survey Papers.

3)

Adults (Children)	Samples A-L	Sample M ₁	Sample M ₂	Samples M ₃ -M ₄	Total
First Generation Migrants	2,678 (94)	3,709 (261)			6,387 (355)
Second Generation Migrants	2,722 (2,457)	945 (1,933)			3,667 (4,990)
Subtotal	5400 (3,151)	4,654 (2,194)			10,054 (5,345)
No Migration Background	21,126 (7,570)	310 (92)			21,426 (7,662)
Total	26,516 (10,721)	4,964 (2,286)			31,480 (13,007)

Number of foreign born migrants in SOEP-Core in 2014 by country of origin

Country Of Birth	Frequency
[1] Germany	13,833
[2] Turkey	2,584
[32] Russia	1,499
[22] Poland	1,386
[74] Kazakhstan	1,239
[5] Italy	1,042
[3] Ex-Yugoslavia	969
[4] Greece	727
[21] Romania	674
[6] Spain	534
[140] Kosovo-Albania	305
[78] Ukraine	289
[222] Eastern Europe	163
[10] Austria	161
[60] Iraq	145
[77] Kyrgyzstan	132
[31] Czech Republic	124
[120] Bosnia-Herzegovina	124
[11] France	105
[18] USA	105
[165] Serbia	103

Questionnaire for new Immigrant Samples

- Individual biography questionnaire:
 - Country of origin
 - How respondent came to Germany
 - Status of asylum procedure
 - Arrival in Germany
 - Intention to stay
 - Language knowledge
 - Support / networks
 - Employment (prior to coming to Germany and now), income
 - Education, training, and qualifications (in country of origin, recognition of qualifications, qualifications already obtained in Germany, currently ongoing training, numbers and figures test)

Questionnaire for new Immigrant Samples

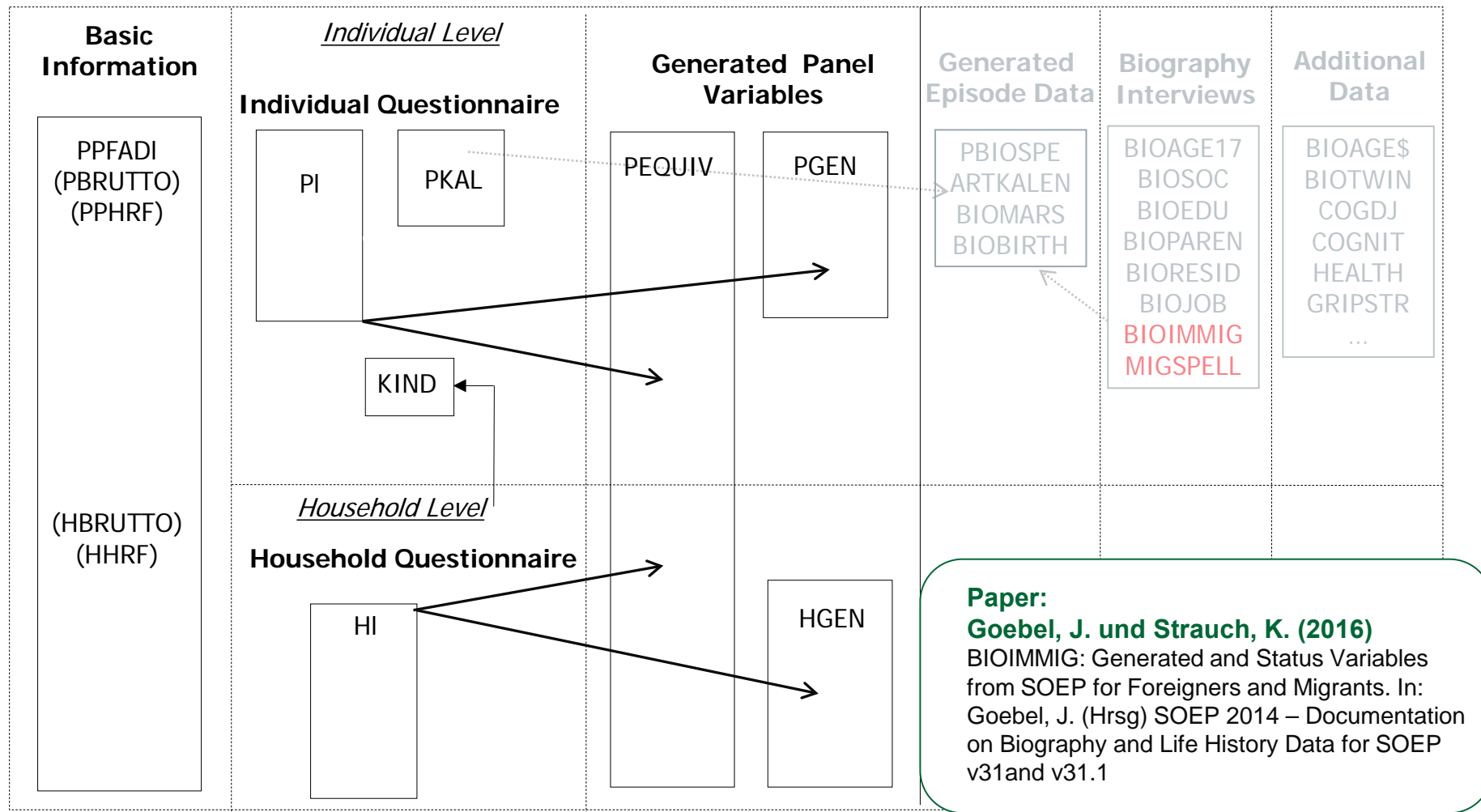
- Individual biography questionnaire:
 - Health (SF12, loneliness, resilience, fear and depression, self-esteem)
 - Personality (reciprocity, control beliefs, risk-taking)
 - Attitudes and opinions (connection to country of origin, feeling welcome in Germany, perceptions of discrimination, religion, worries, political interest in country of origin and in Germany, conception of democracy, gender role images)
 - Expectations for the future in relation to education and labor market participation
 - Family situation
 - Payments made

Questionnaire for new Immigrant Samples

- Household questionnaire:
 - Current housing / apartment
 - Transfers received
 - Provision of daily necessities
 - Participation
 - Children (attendance of daycare, preschool, school)

All Immigrant-Samples are integrated in the regular SOEP-datasets!

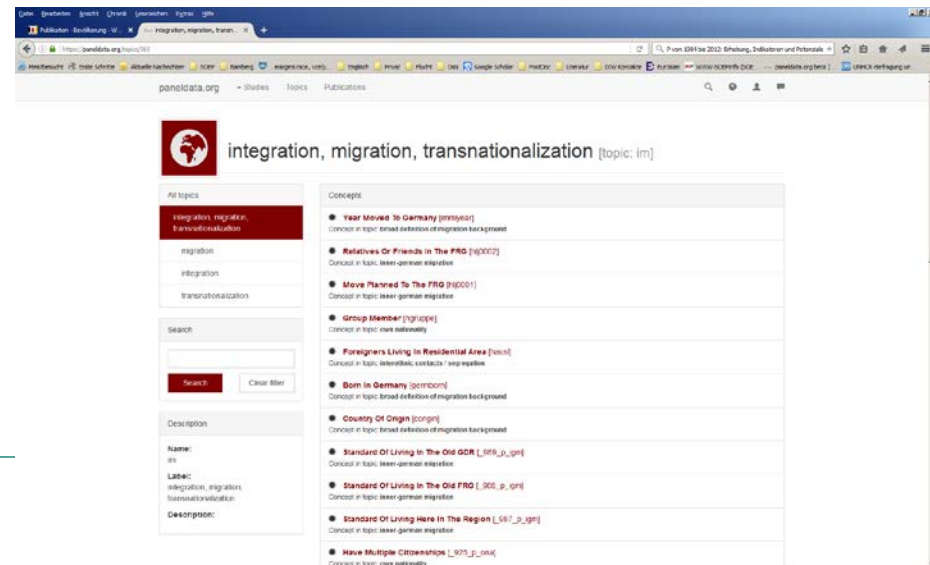
Informational overlap is organized in additional datasets!



- PPFAD contains the following user-friendly variables:
 - Germborn – Respondents born in Germany
 - Immiyear – Year of immigration (for those not born in Germany)
 - Corigin – Country of origin (for those not born in Germany)
 - Migback – Migration background (direct or indirect migration background)
- PGEN contains nation\$\$ - citizenship

→ Other migration and integration variables mentioned on

<https://paneldata.org/topics/365>



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Seit 2003 werden detaillierte Informationen zu Kindern in den Befragungshaushalten erhoben

Elterninterviews zu Kindern im SOEP

Name	Age	Start	Topics covered	N (SOEP v30, 2003-2013)
------	-----	-------	----------------	----------------------------

Kinderinfos im SOEP

Name	Age	Start	Topics covered	N (SOEP v30, 2003-2013)
bioage01 (mothers)	0-1	2003	birth information, health, temperament , care situation	2,307
bioage03 (mothers)	2-3	2005	+ activities with the child, personality	1,879
bioage06 (mothers)	5-6	2008	+ socio-emotional behavior	1,260
bioage08 (parents)	7-8	2010	+ school situation, parental role	847 / 562
bioage10 (mothers)	9-10	2012	+ grades, educational aspirations and expectation	449

Kinderinfos im SOEP; Entwicklung der Datensätze/Stichproben

Table 3: Number of respondents to the “Mother & Child” and “Parent” questionnaires

Bioage File	Survey Year											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Bioage01	318	247	246	234	205	185	196	182	146	166	182	2307
Bioage03			257	222	237	246	186	190	173	190	178	1879
Bioage06						237	210	214	210	187	202	1260
Bioage08a								221	174	214	238	847
Bioage08b								152	117	152	141	562
Bioage10										222	227	449
Total	318	247	503	456	442	668	592	959	820	1131	1168	7304

The Family of SOEP Studies 1984-

SOEP-IS

- Start in 2012
- Innovation sample 2009 (incentives)
- Integration of sample E
Refresher 2012
Refresher 2013
Refresher 2014

SOEP-Core (1984-)

- Oversampling of immigrants (A/B)
- Since 1990 East Germany (C)
- 1994/95 Immigration sample (D)
- 1998 Refresher I (CAPI) (E)
- 2000 Refresher II (F)
- 2002 High-Income Refresher (G)
- 2006 Refresher III (H)
- 2009 Innovation Sample (Incentives) (I)
- 2011 Refresher IV (J)
- 2012 Refresher V (K)
- 2013 Immigrant Sample II (M)
- 2014 Integration of FiD

SOEP-Related Studies

- Families in Germany (FiD) 2010-2013
- BASE II (2012-2015) - PIAAC-L (2013-2017), - TWINlife (2014-2016)
- Bonn Intervention Study (BIP) (2014-

The Family
of SOEP

SOEP-Core (1984-)
- Oversampling of immigrants (A/B)
Since 1990 East Germany

Total no. of realized
households in 2014 – about
20,000

- BASE II (2012-2015) - PIAAC-L (2013-
2017), - TWINlife (2014-2016)

Bonn Intervention Study (BIP) (2014-

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 - d) Mother/Child Questionnaire
4. Data Access

- Der anonymisierte Mikrodatensatz des SOEP wird Universitäten und anderen Forschungseinrichtungen für **Forschung und Lehre kostenfrei** zur Verfügung gestellt.
- Für die **Datennutzung** ist aus Gründen des Datenschutzes der Abschluss eines **Datenweitergabevertrages** mit dem DIW Berlin notwendig.
- Nach Abschluss können die Daten über einen personalisierten Link mit individuellem Passwort verschlüsselt heruntergeladen werden.

- Der Antrag auf Datennutzung kann unter:
http://www.diw.de/de/diw_02.c.222836.de/Data Access.html
heruntergeladen werden.

SOEPhotline

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