

Meet-the-Data @Amtliche Statistik

10. Oktober
2024,
13:15–14:00 Uhr,
online

KonsortSWD 
Konsortium für die
Sozial-, Verhaltens-, Bildungs- und
Wirtschaftswissenschaften



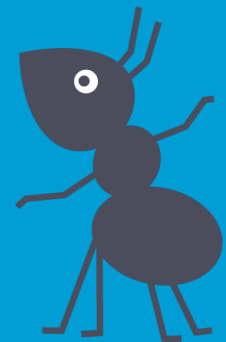
Intro zur Reihe

- Jeden zweiten Donnerstag im Monat, 13:15-14:00 Uhr
- Programm 2024/2025: @Amtliche Statistik, Datenzugang, Datennutzung ...
- Welche Forschungsdaten kann ich für eigene Forschungsfragen nutzen?
- Wie erhalte ich Zugriff?
- Welche Unterstützungsangebote gibt es zusätzlich?

Forschungsdatenzentrum Amtliche Statistik

Datenbestand





RESEARCH DATA CENTRE (FDZ)
of the German Federal Employment Agency (BA)
at the Institute for Employment Research (IAB)

DATA AND DATA ACCESS AT THE RESEARCH DATA CENTRE (FDZ)

OF THE GERMAN FEDERAL EMPLOYMENT AGENCY (BA)
AT THE INSTITUTE FOR EMPLOYMENT RESEARCH (IAB)

Meet-the-Data @ Amtliche Statistik, virtual

October 10, 2024

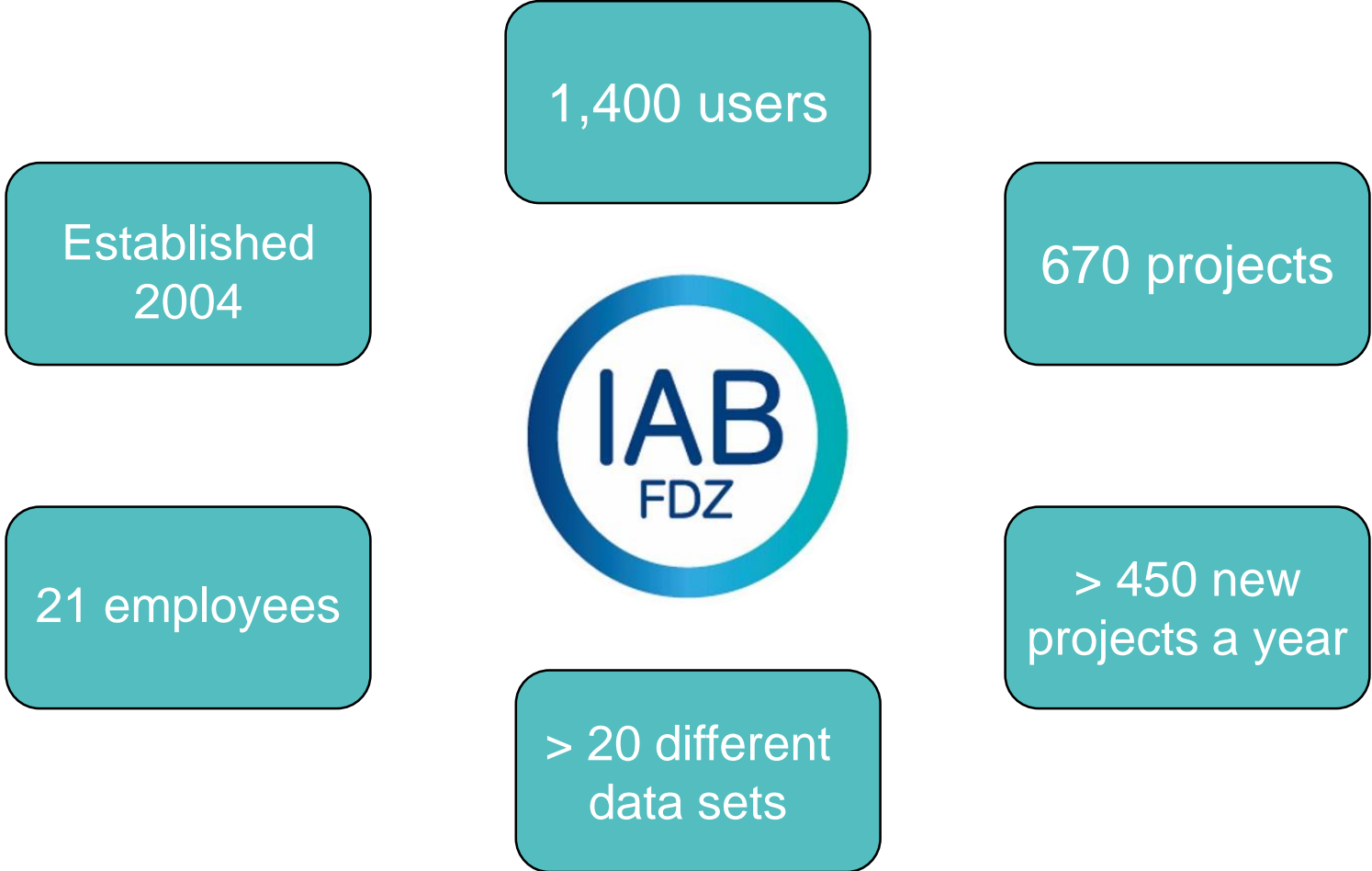
Matthias Umkehrer



ABOUT OUR FDZ

- Who are we?
 - Research Data Centre of the Federal Employment Agency (BA) and part of the Institute for Employment Research (IAB) located in Nuremberg, Germany
- What do we do?
 - Offer access to confidential micro data of BA/IAB for **academic purposes**
 - Prepare **standardized** data products
 - Provide documentation
 - Give advice for data selection and application
 - Do research with the data
- Why do we provide the data?
 - Legal mandate specified in German Social Code

STATISTICS

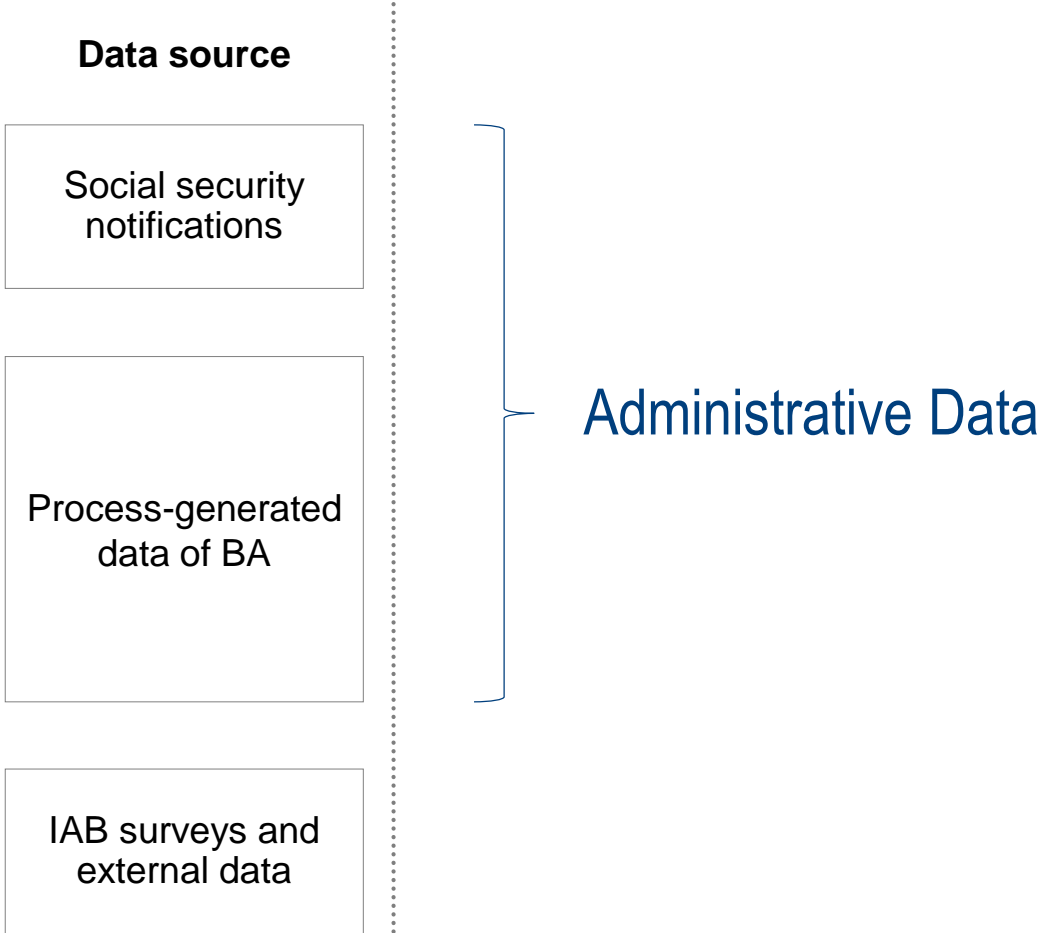




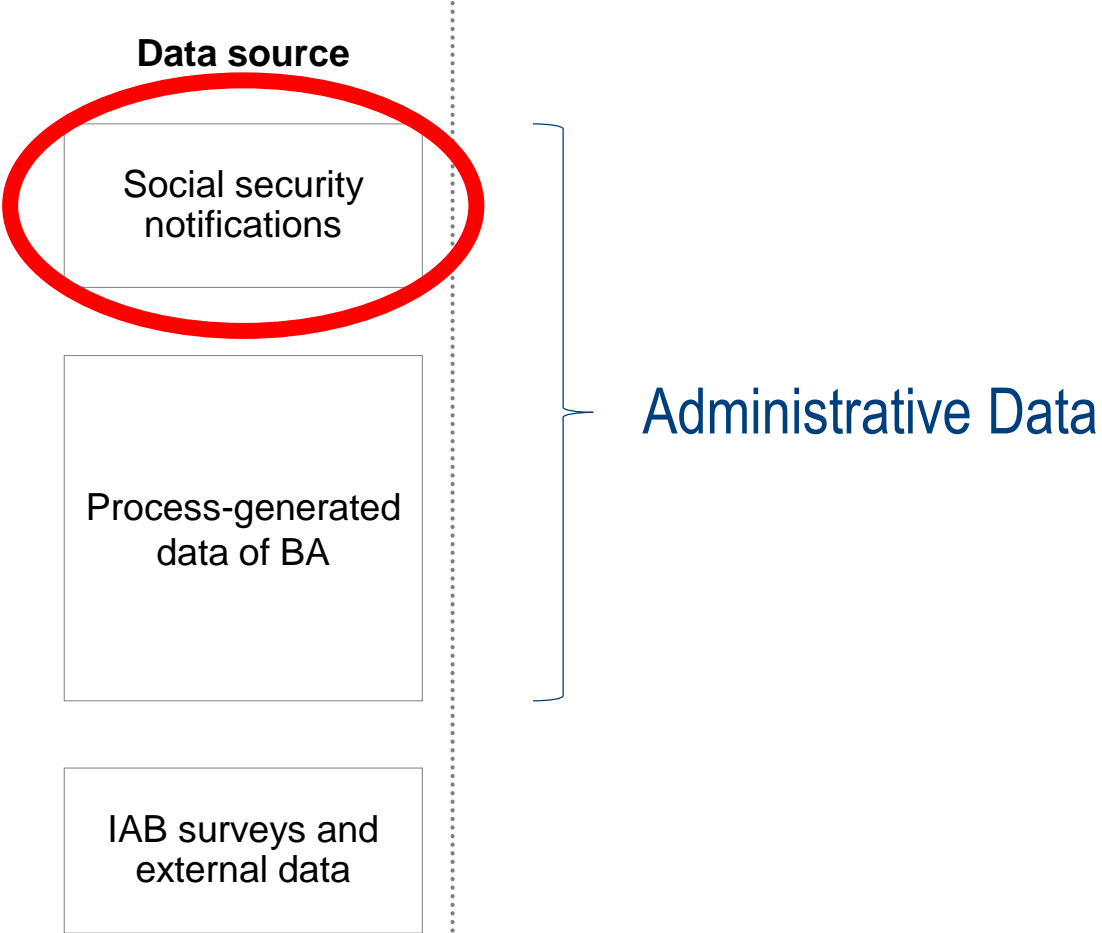
Was ist das Besondere an diesen Daten?



DATA – OVERVIEW



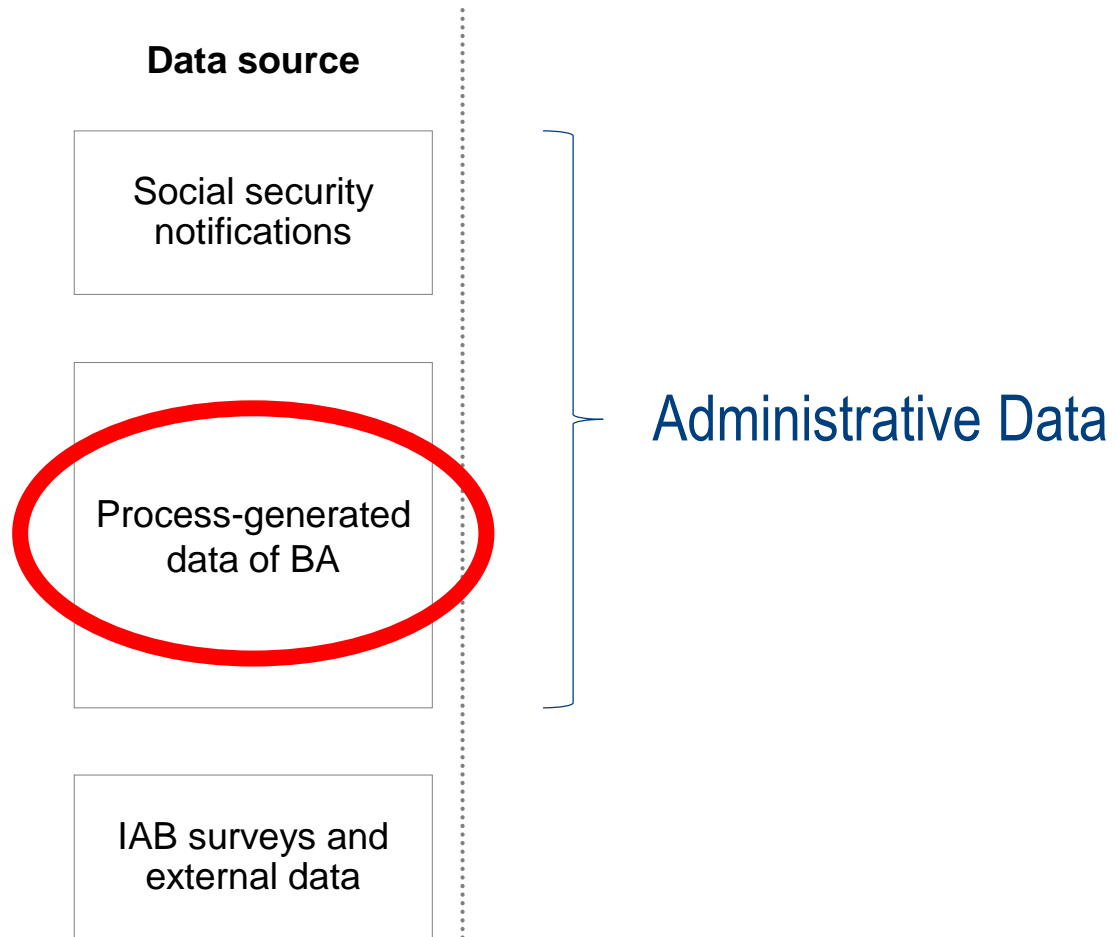
DATA – OVERVIEW



SOCIAL SECURITY NOTIFICATIONS

- Purpose of data collection: calculation of social security contributions / benefit payments, official statistics, controlling etc.
- Employers are required by law to notify the social security institutions
 - on every employment relationship (subject to social security contributions; from 1999 also marginal employment)
 - at the start, end and interruptions or changes of employment
 - at least once a year
- PRO: Comprehensive data starting 1975; no attrition; daily precision
- CONS: Not all types of employment are covered; data quality depends on relevance for administration

DATA – OVERVIEW



PROCESS-GENERATED DATA OF BA

- Data from operative processes of BA
 - Information on financial benefits
 - Registered job search
 - Participation in active labor market policy measures
- Daily information at individual level
- Unique person identifiers and several other variables
- PRO: Very reliable
- CON: Lacks external info, e.g. on actual job search activities

ADMINISTRATIVE DATA – TIMELINE



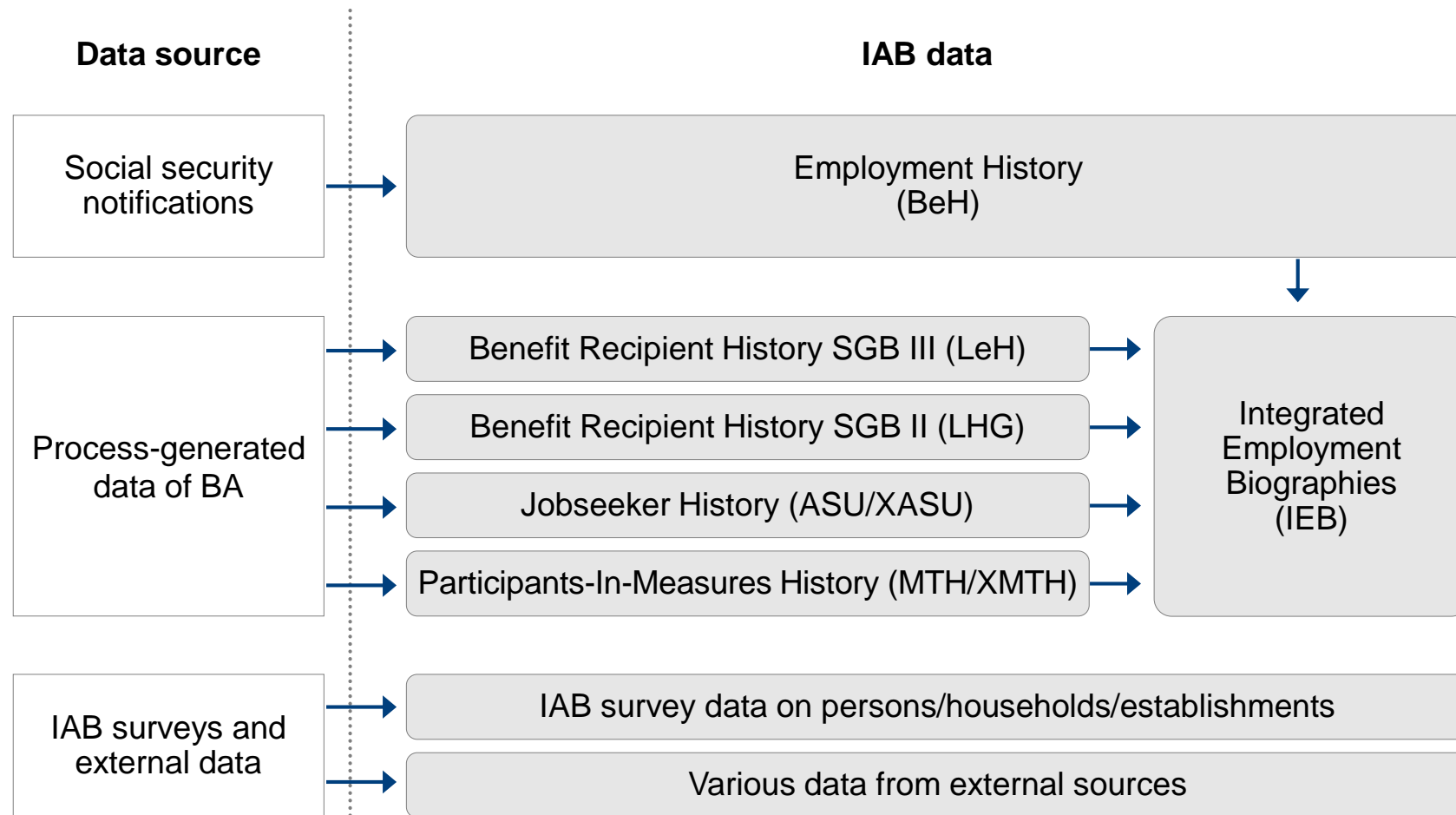
Apprenticeship training /
entry into labor market

Exit out of labor market /
entry into pension system



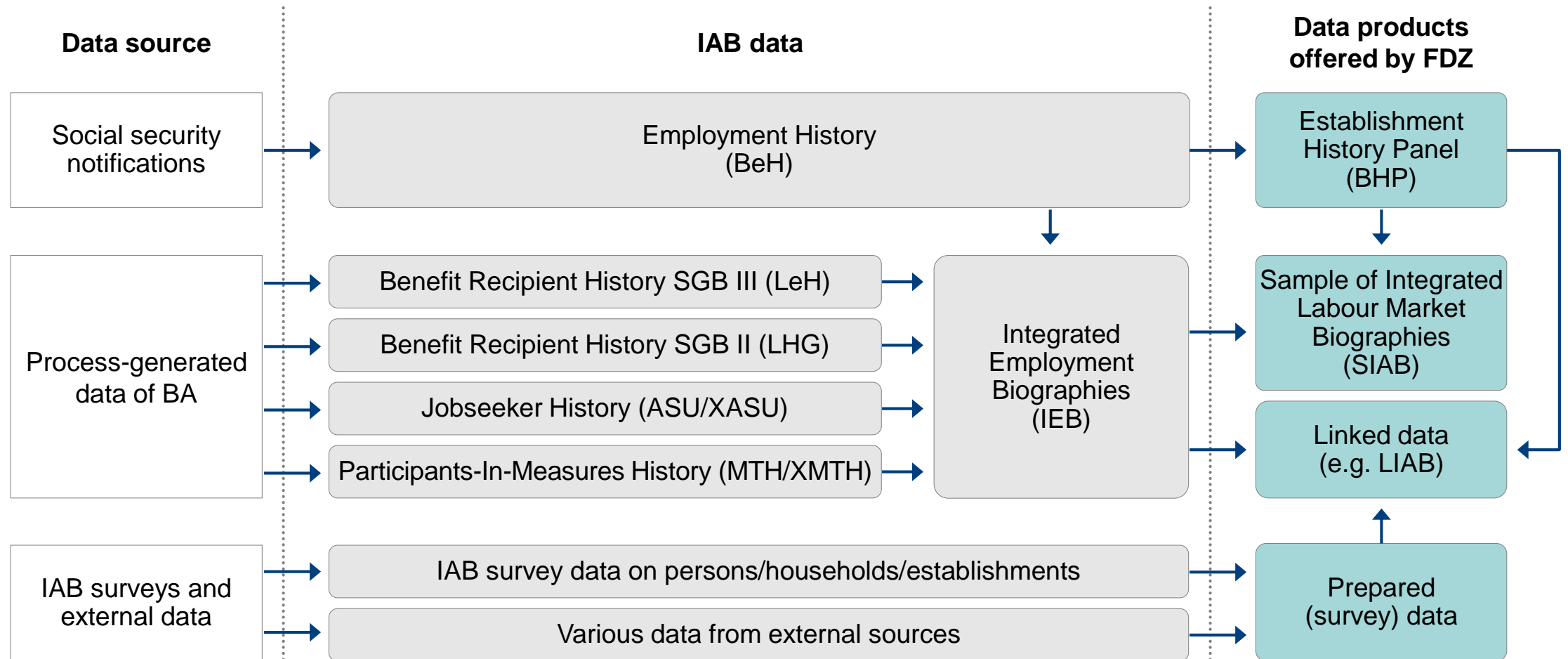
- Employment (subject to social security since 1975, marginal part-time since 1999)
- Unemployment benefit receipt (SGB III since 1975, SGB II since 2005)
- Registered job-seeking (since 1997)
- (Planned) participation in programs of active labor market policies (since 2000)

DATA – OVERVIEW

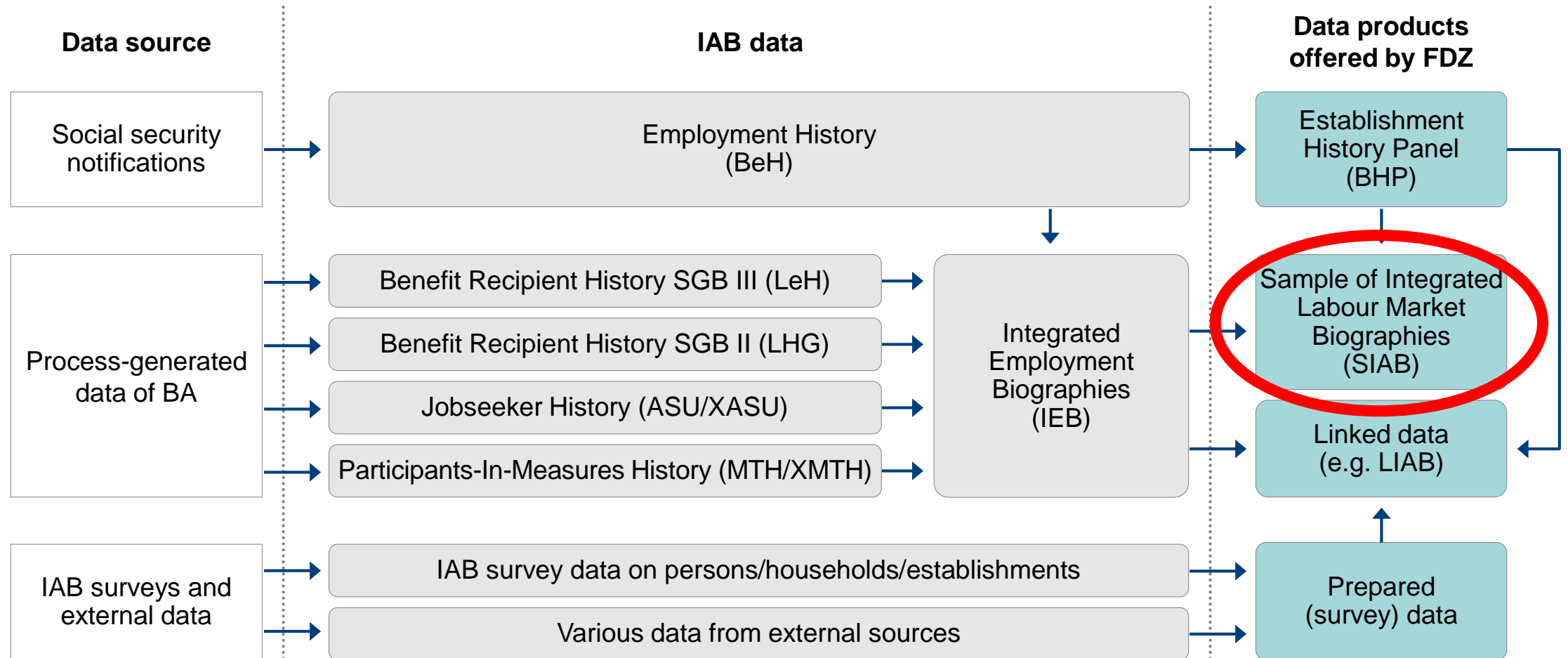


ADMINISTRATIVE RESEARCH DATA

DATA – OVERVIEW



DATA – OVERVIEW



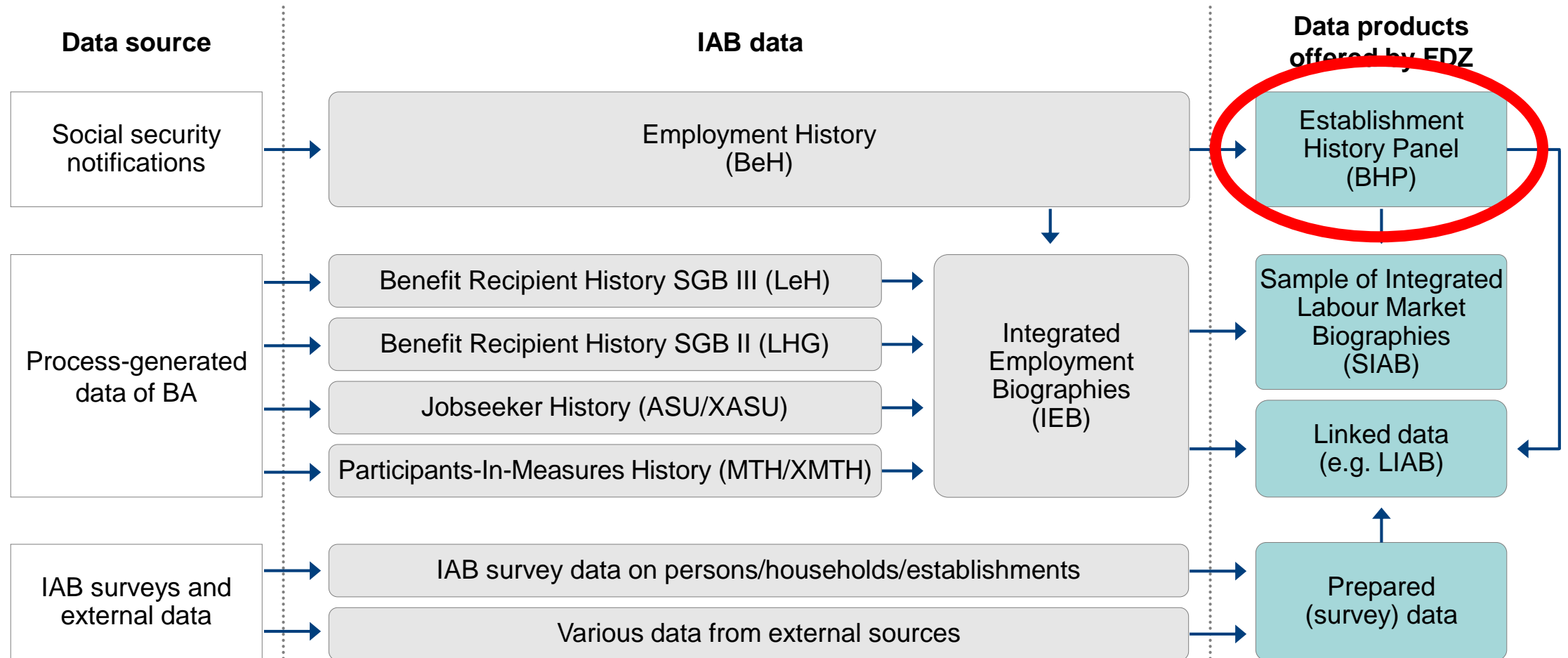
SAMPLE OF INTEGRATED LABOR MARKET BIOGRAPHIES (SIAB)

- 2% random sample of the Integrated Employment Biographies (IEB)
- Labor market biographies on a daily basis at the 'job'-level
- 1975-2021 West, 1992-2021 East
- 1,977,295 individuals
- No information on e.g. civil-servants, freelancers, and self-employed

SAMPLE OF INTEGRATED LABOR MARKET BIOGRAPHIES (SIAB)

Category	Variables (selection)
Socio-demography	nationality, gender, age, education
Employment	start/end date, working-time status, earnings, occupation
Unemployment	start/end date, benefit receipt, registered job search
Location	place of work and residence (down to district level)
Establishment	merge with BHP

DATA – OVERVIEW



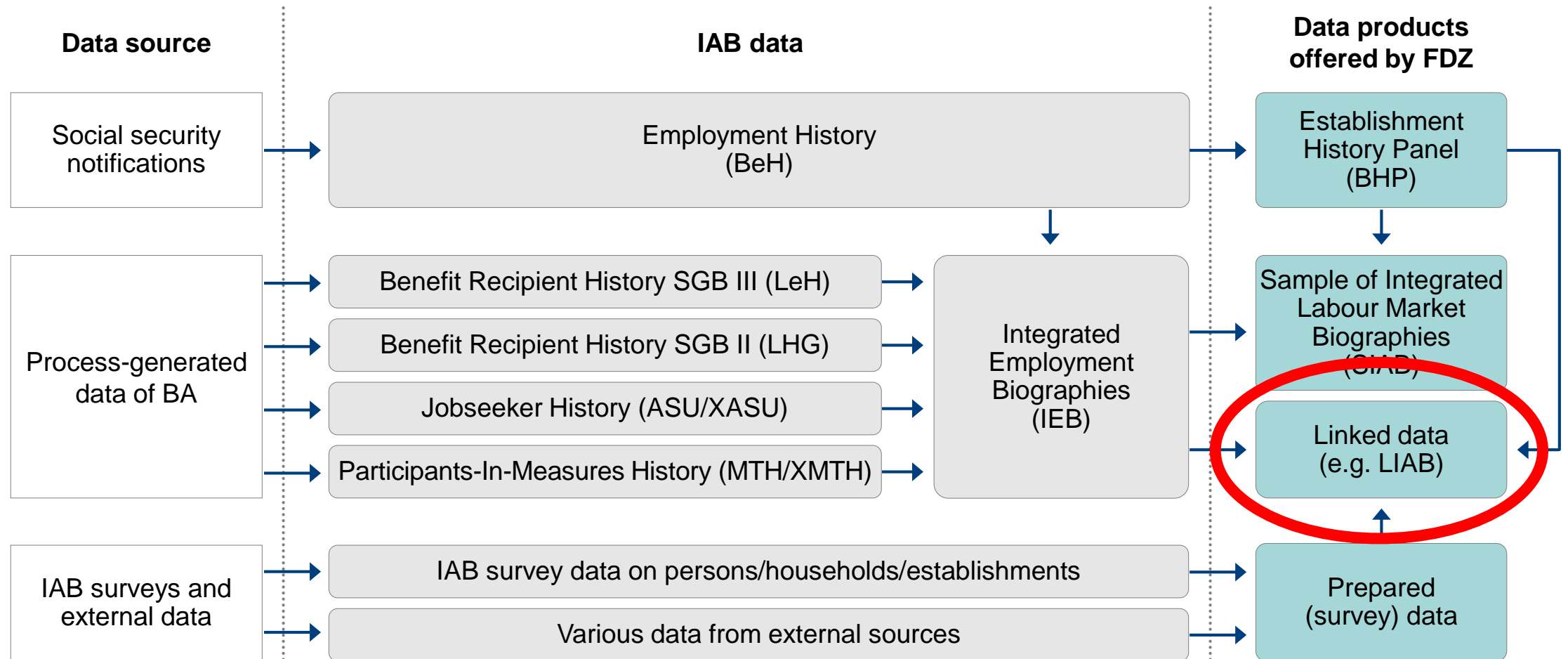
ESTABLISHMENT HISTORY PANEL (BHP)

- Aggregation of Employment History by establishment ID and year
- Repeated cross sectional dataset on all establishments
 - with at least one employee subject to social security (until 1998)
 - and/or at least one marginal part-time employee (since 1999)
- Referenced to June 30
- 50% random sample
- 1975-2021 West, 1992-2021 East
- 640,000-1.5 million establishments p.a.

ESTABLISHMENT HISTORY PANEL (BHP)

Category	Variables (selection)
Establishment characteristics	Workforce composition, wage distribution, branch of industry, location
Worker flows	inflows, outflows
Establishment flows	(proxies of) establishment entries and exits

DATA – OVERVIEW



LINKED ADMIN-SURVEY DATA

Linked-Employer-Employee-Data of the IAB (LIAB) combine three data sources

- **IAB Establishment Panel Survey**
 - annual representative survey
 - approx. 16,000 establishments per year
 - conducted since 1993
 - various core topics (e.g. labor demand, business policy and development); alternating focus themes (e.g. minimum wage; Covid-19 pandemic)
- Labor market biographies of persons employed by interviewed establishments from **IEB**
- Administrative establishment data from **BHP**



Was haben Forschende mit diesen Daten schon herausgefunden?



1,400 USERS AND 670 PROJECTS – SOME EXAMPLES: (SEE [HERE](#) FOR MORE)



Economics Letters
Volume 196, November 2020, 109509



Do unions and works councils really dampen the gender pay gap? Discordant evidence from Germany ☆

Michael Oberfichtner ^{a, b, c}, Claus Schnabel ^b, Marina Töpfer ^b

Econometrica, Vol. 89, No. 2 (March, 2021), 647–676

LEARNING FROM COWORKERS

GREGOR JAROSCH

Department of Economics and SPIA, Princeton University

EZRA OBERFIELD

Department of Economics, Princeton University

ESTEBAN ROSSI-HANSBERG

Department of Economics and SPIA, Princeton University



European Economic Review
Volume 132, February 2021, 103658

The fall in german unemployment: A flow analysis ☆

Carlos Carrillo-Tudela ^{a, b, c}, Andrey Launov ^{a, d}, Jean-Marc Robin ^{e, f}

European Sociological Review, 2020, Vol. 36, No. 5, 798–813

doi: 10.1093/esr/jcaa016

Advance Access Publication Date: 29 June 2020

Original Article

OXFORD

Jobs and Matches: Quits, Replacement Hiring, and Vacancy Chains

Yusuf Mercan

Benjamin Schoefer

AMERICAN ECONOMIC REVIEW: INSIGHTS
VOL. 2, NO. 1, MARCH 2020



econometrics

Article

Polarization and Rising Wage Inequality: Comparing the U.S. and Germany

Dirk Antonczyk ¹, Thomas DeLeire ^{1,2,3}, Bernd Fitzenberger ^{1,4,5,6,7,8,*}

Changes in Workplace Heterogeneity and How They Widen the Gender Wage Gap

Benjamin Bruns

AMERICAN ECONOMIC JOURNAL: APPLIED ECONOMICS
VOL. 11, NO. 2, APRIL 2019

THE INTERNATIONAL JOURNAL OF HUMAN RESOURCE MANAGEMENT
<https://doi.org/10.1080/09585192.2020.1737835>



Routledge
Taylor & Francis Group

OPEN ACCESS

Check for updates

Does the Firm Make the Difference? The Influence of Organizational Family-Friendly Arrangements on the Duration of Employment Interruptions after Childbirth

Ann-Christin Bächmann, Corinna Frodermann* and Dana Müller

The retention effect of training: Portability, visibility, and credibility¹

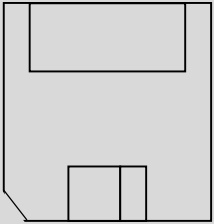
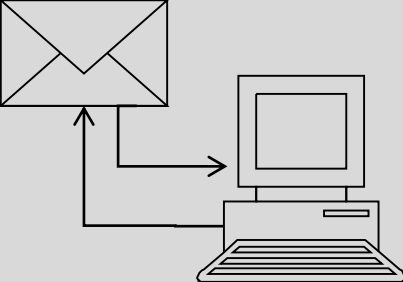
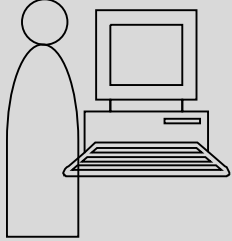
Daniel Dietz^a and Thomas Zwick^{a,b,c}



Datenzugang & Datennutzung



ACCESS MODES

Off-Site Access		On-Site Access
		
<p>Download (Scientific Use File)</p>	<p>Remote Execution (with JoSuA)</p>	<p>Visit FDZ in Nuremberg or Remote Access Centers</p>
<p>De-facto anonymized data (securely stored at institution; develop data security concept)</p>	<p>Weakly anonymized data (remain at IAB at all times; some restrictions apply to on-site access from non-EU countries)</p>	

REMOTE ACCESS CENTERS OF FDZ



YOUR NEW RESEARCH PROJECT

Three STEPS:

1. Non-technical research project proposal

Has to follow certain requirements, e.g. topic within labor market research etc.

2. After approval: Use agreement with the institution of the researcher

Time until user/institution receives agreement: 2 to 4 weeks

3. Agreement reception:

Access to standard RDC data is free of charge

No restrictions on hours/visits of on-site use facilities

Remote executions: 9 internal use jobs per day

GUIDELINES - REMOTE DATA ACCESS AND ON-SITE USE

- [Data Access](#)
- Structure of [Programme](#) Files and large variety of working tools
- Results & Publication of results
 - Use of test data (testing all programmes before submitting them)
 - Use of internal mode
 - Use of external mode (only for presentation and publications!)
- Special arrangements for other software (standard: Stata)
- [JoSuA](#) Manual



Ausblick: Was gibt es noch?

Weitere Datenbestände und Services im FDZ



LINKAGE WITH EXTERNAL DATA (SELECTION)

NEPS-ADIAB – NEPS SURVEY DATA LINKED TO IEB AND BHP

- Cooperation project with Leibniz Institute for Educational Trajectories (LifBi)
- **National Educational Panel Study (NEPS)**
 - longitudinal survey
 - various starting cohorts
 - focus on skill development, education decisions/processes and returns
 - e.g. competency tests in reading or mathematics; data on non-cognitive skills
- Record linkage
 - based on name, address, sex and birthdate; distance-based and probabilistic
 - informed consent
- Access via IAB-FDZ, but separate data use agreement for NEPS required

SOEP-CMI-ADIAB – SOEP SURVEY DATA LINKED TO IEB AND BHP

- Cooperation project with
 - German Institute for Economic Research (DIW)
 - Federal Office for Migration and Refugees (BAMF)
 - Institute of Labor Economics (IZA)
- **Socio-Economic Panel (SOEP) includes**
 - SOEP Core (all waves until 2020)
 - IAB-SOEP Migration Sample
 - BAMF-SOEP Survey of Refugees
 - SOEP Innovation Sample
- Record linkage
 - based on name, address, sex and birthdate; mix of exact and probabilistic
 - informed consent
- Access via IAB-FDZ, but separate data use agreement for SOEP required

FURTHER FDZ DATA PRODUCTS

- PASS is another example of an IAB survey, but at the **household** level.
- LPP augments the LIAB data by an employee survey with focus on **personnel economics**.
- SIEED provides information on employment histories of **all workers** of a random sample **of establishments** (e.g. for co-worker or more flexible establishment-level analyses).
- We can link most surveys with both BHP and IEB data (“ADIAB“ products).
- <https://fdz.iab.de/en/our-data-products/>

Ansprechpartner / Kontakt für Rückfragen

Dr. Matthias Umkehrer

Institut für Arbeitsmarkt- und
Berufsforschung (IAB)

- Forschungsdatenzentrum (FDZ) -

iab.fdz@iab.de

<https://fdz.iab.de/>

+49 911 179-1752

KonsortSWD wird Rahmen der NFDI durch die Deutsche
Forschungsgemeinschaft (DFG) gefördert - Projektnummer: **442494171**



Meet-the-Data: Das Programm

Datum	Thema
10. Oktober 2024	Daten und Datenzugang am Forschungsdatenzentrum der BA im IAB
14. November 2024	Datenprodukte des Forschungsdatenzentrums im Kraftfahrt-Bundesamt
12. Dezember 2024	Daten über die Bevölkerung und den Arbeitsmarkt in Deutschland der FDZ der Statistischen Ämter des Bundes und der Länder – Der Mikrozensus
9. Januar 2025	Das Ausländerzentralregister: Der Forschungsdatensatz 2023
13. Februar 2025	Forschungsdaten der Deutschen Rentenversicherung Bund – Zugang und Potentiale

**Gute Daten.
Bessere Forschung!**