

Data and Data Access

Research Data Centre (FDZ)
of the German Federal Employment Agency (BA)
at the Institute for Employment Research (IAB)

CASD

September 11th, 2018

Marie-Christine
Laible

Outline

1. The Institutions: BA, IAB and FDZ
2. Administrative Data Sources
3. Selected Data Products
4. Data Access

1. The Institutions

Federal Employment Agency and IAB

- BA: Federal Employment Agency
 - Job counselling and placement services
 - Unemployment insurance benefits
 - Welfare benefits
 - Active labor market policies
 - Labor market reporting and statistics
 - Collects data on social security contributions, unemployment benefits, ...

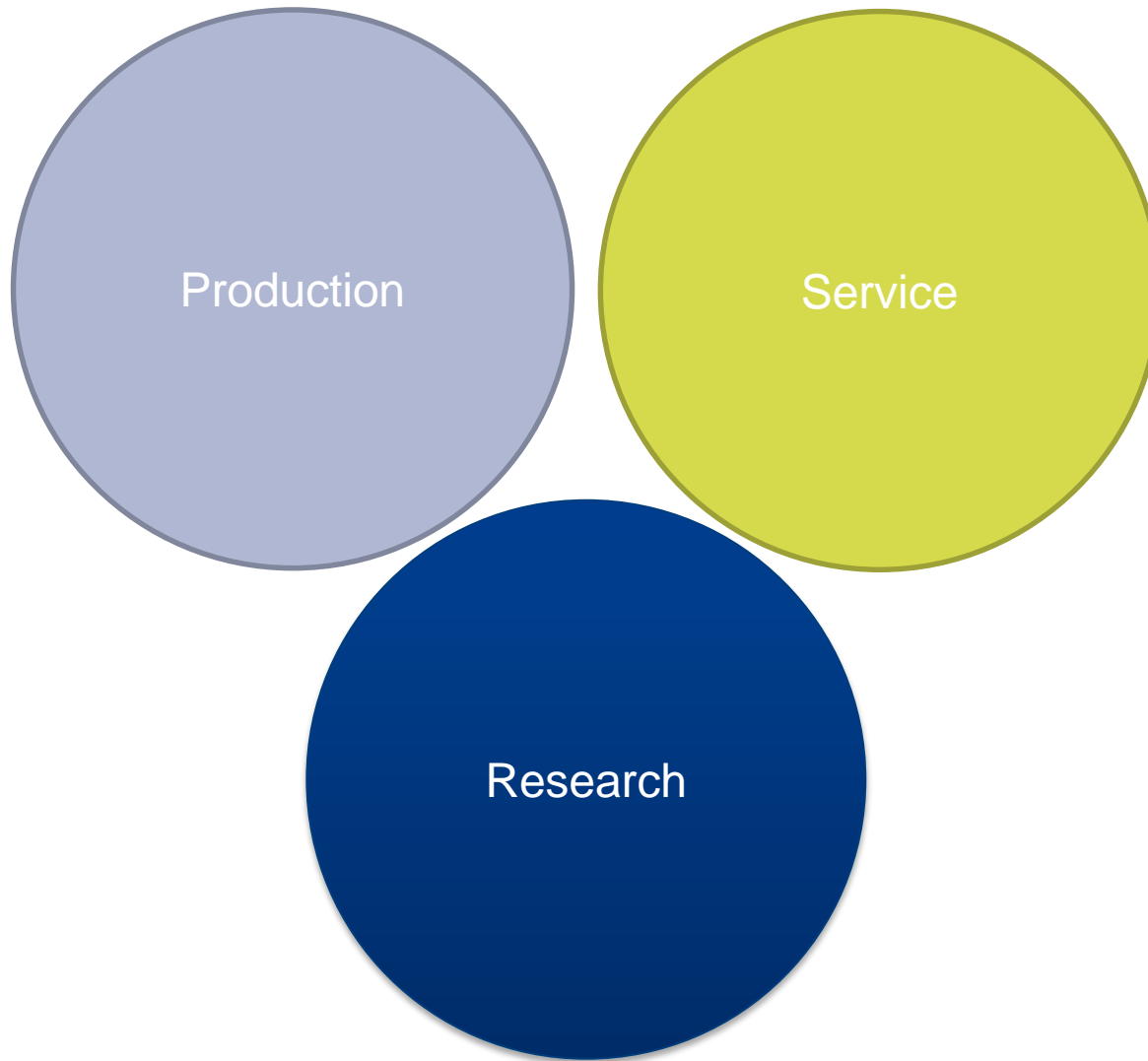
- IAB: Institute for Employment Research
 - Research department of the BA
 - Scientifically independent
 - Labor market and occupational research
 - Political consulting
 - Research data for academic purposes



The Research Data Centre: FDZ

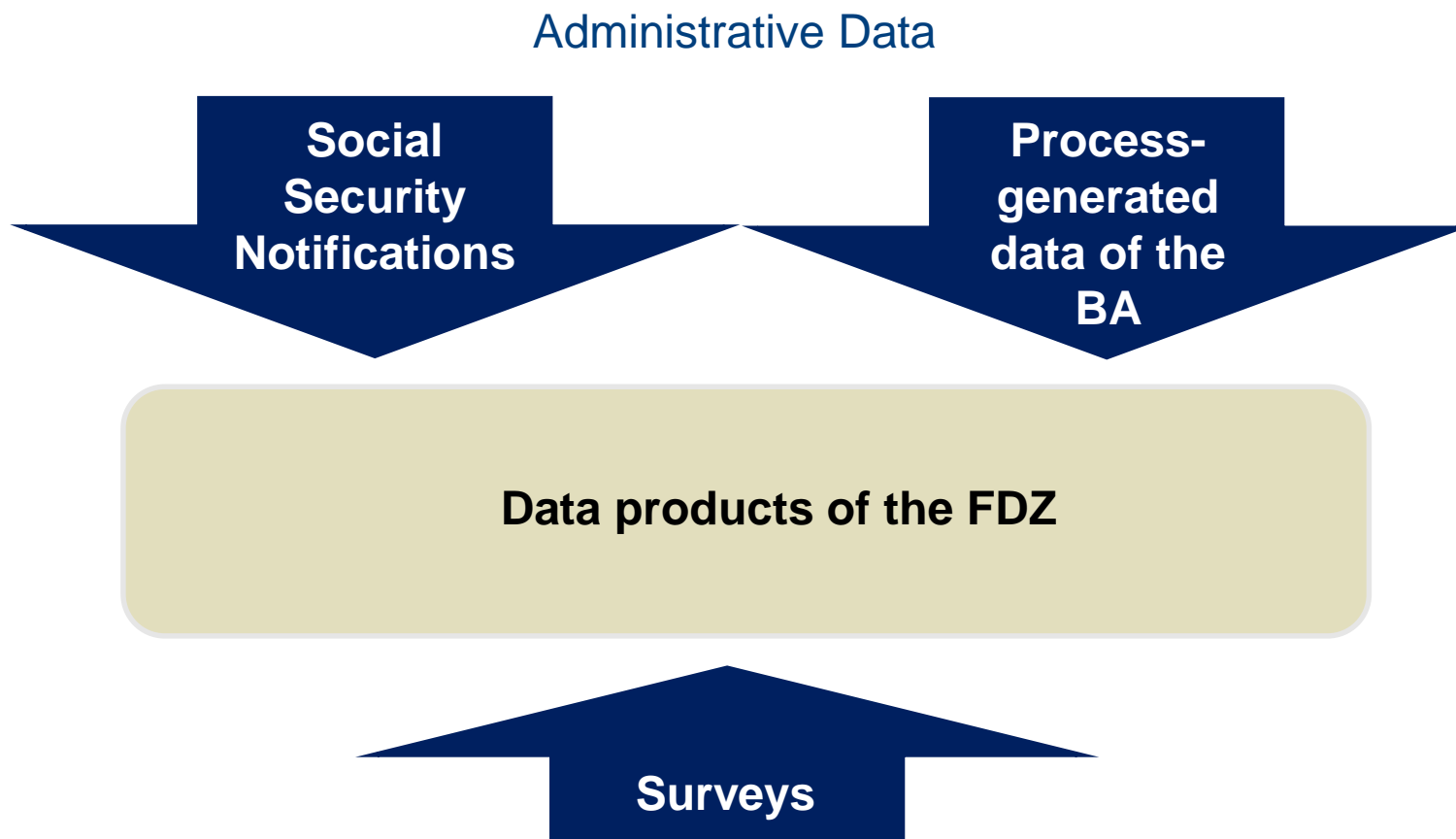
- Established in 2004 with a funding period of 3 years
 - Permanent department since 2007
- What do we do?
 - Access to confidential micro data of the BA and IAB for academic purposes
 - Standardized data products
 - Advice for data selection and application
 - Documentation
 - Web based metadata information platform - coming soon
 - Do research with our data
- Why do we provide data?
 - Legal mandate specified in German Social Code Book

Core Functions of the FDZ



Data Available at FDZ

- Micro labor market data on individuals, households, and establishments



2. Administrative Data Sources

Notification Procedure to the Social Security Institutions

Meldung zur Sozialversicherung

Personalauswahl

Versicherungsnummer Personalnummer (freiwillige Angabe)

Name Vorsatz Zusatz Titel

Vorname

Straße und Hausnummer (Anschrift nur bei Anmeldung und Anschriftenänderung)

(Land) Postleitzahl Wohnort

Grund der Abgabe Entgelt in Gleitzone Namensänderung ☐

Beschäftigungszeit
 von bis Betriebsnummer des Arbeitgebers Personengruppe Mehrfachbeschäftigung ☐ Betriebsstätte Ost ☐ West ☐

Beitragsgruppen KV RV ALV PV Angaben zur Tätigkeit Aktuelle Staatsangehörigkeit

Beitragspflichtiges Bruttoarbeitsentgelt (in DM ohne Pfennige / Euro ohne Cent) DM ☐ Euro ☐ Statuskennzeichen

Wenn keine Versicherungsnummer angegeben werden kann:
 Geburtsname Vorsatz Zusatz Geburtsort

Geburtsdatum Geschlecht männlich ☐ weiblich ☐

Name der Einzugsstelle (Geschäftsstelle)

Datum

Firma

Straße

PLZ Ort

- Social Security Number
- Establishment Number
- Last Name
- First Name
- Address
- Reason for Notification
- Period of Employment
- Nationality
- School Education
- Vocational Training
- Type of Employment
- Wages
- Occupation (since 2011: new classification)
- Industry code

Notification Procedure to the Social Security Institutions

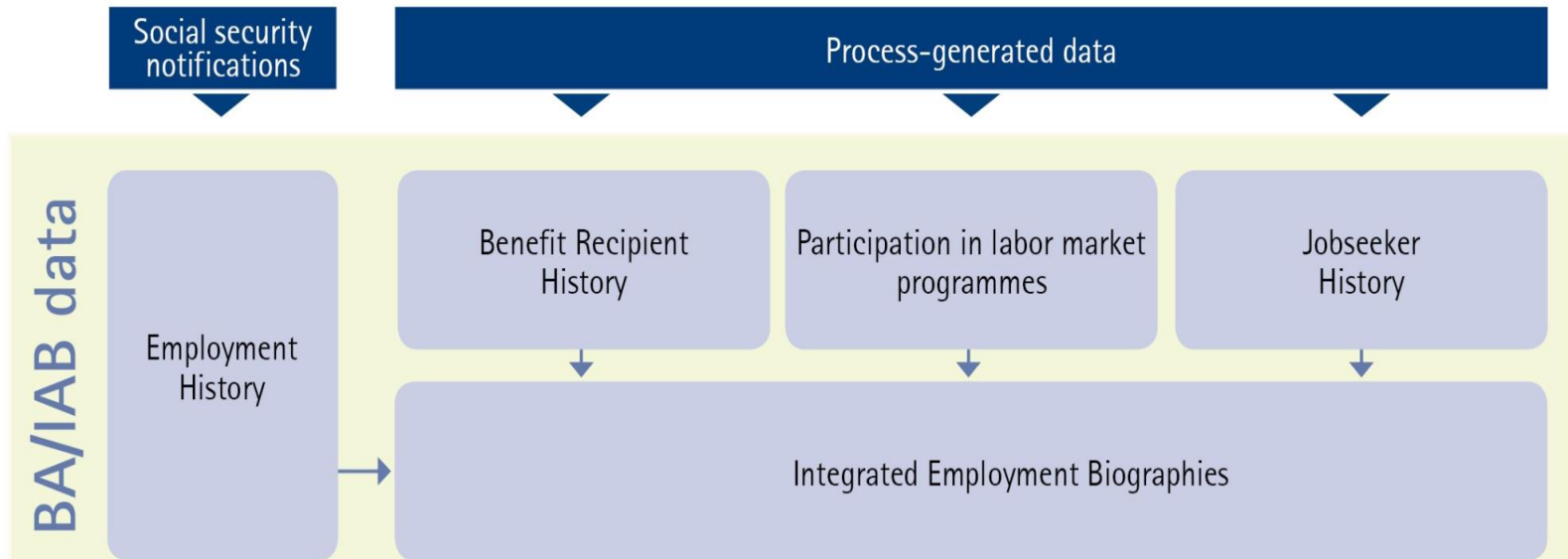
- Employers are required by law to notify the social security institutions on:
 - Every employee and marginal worker covered by the social security system
 - At the beginning or end of employment, employment interruption, change of health insurance, etc.
 - At least once a year
- Pro:
 - Very reliable and detailed information on employment
- Con:
 - No information on civil servants, freelancers, or self-employed
 - Data depends on relevance for administration

Process-Generated Data of BA

- Data from operative processes of BA:
 - Information on unemployment benefits
 - Participation in labor market programs
 - Registered job search
- Information on benefit receipt and amounts at the individual level
- Social security number or BA customer ID, and several other variables

3. Selected Data Products

Main Database – The Integrated Employment Biographies (IEB)

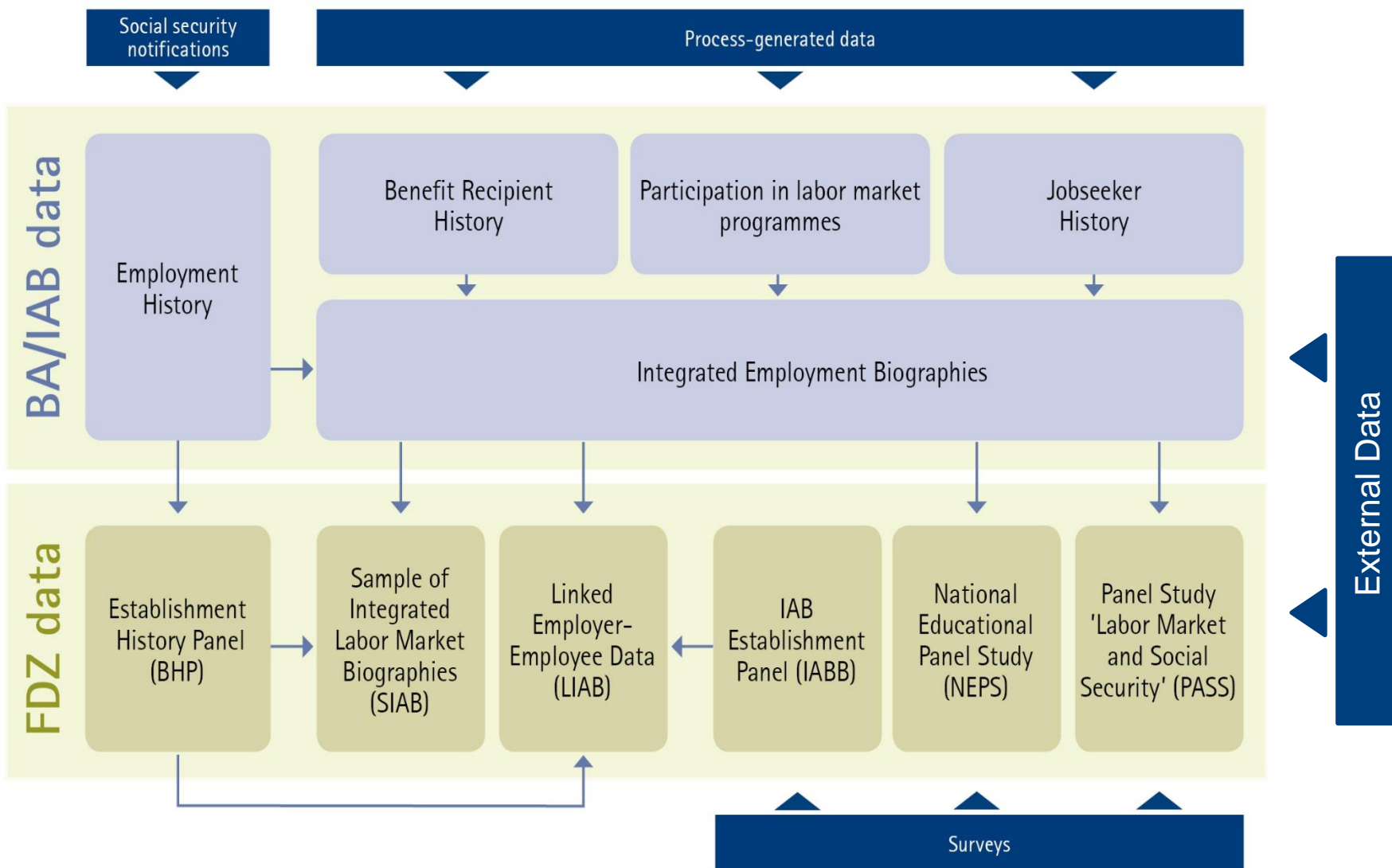


apprenticeship

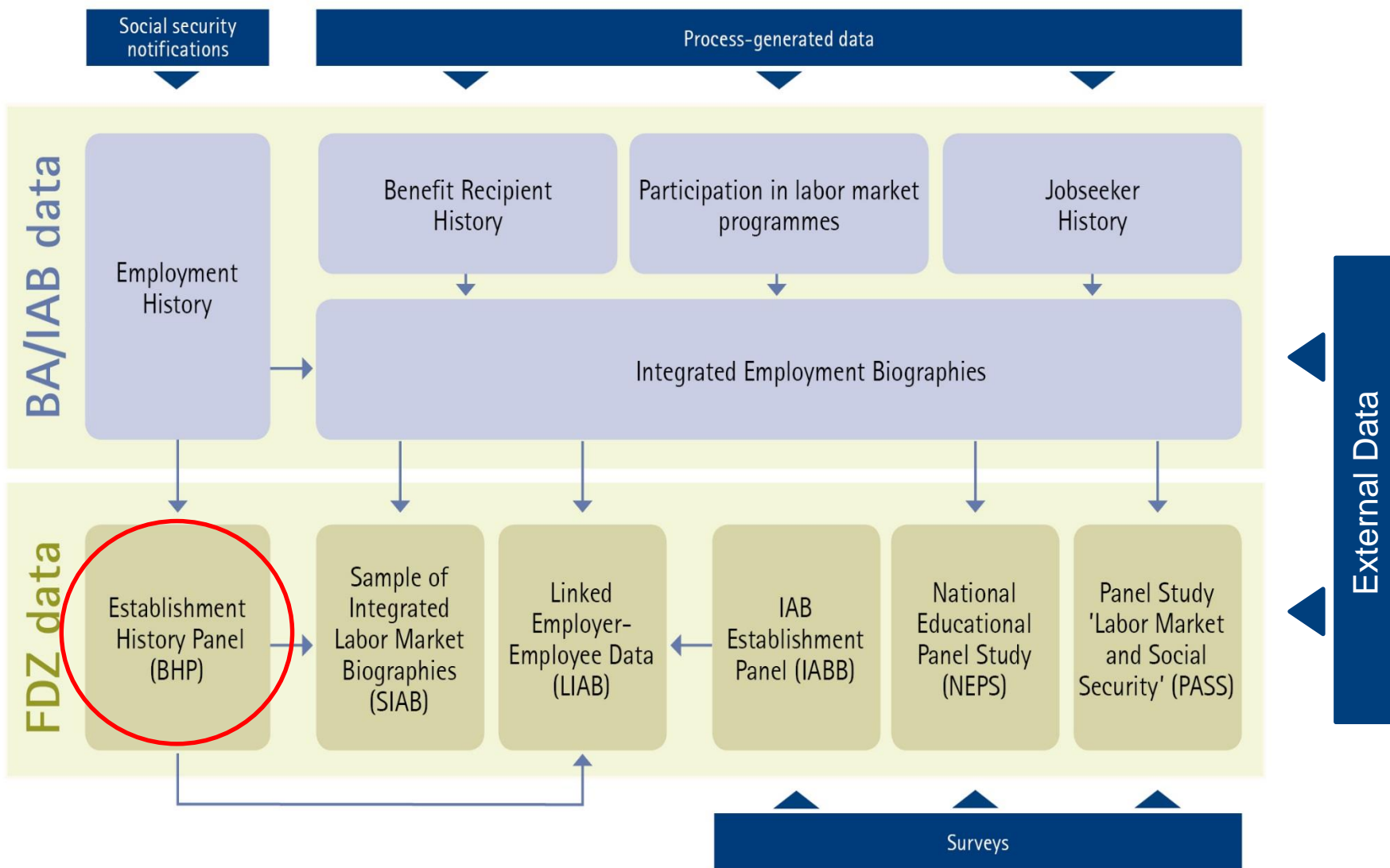
labor market exit or pension
system entry



Data Available at the FDZ - Overview



Data Available at the FDZ - BHP



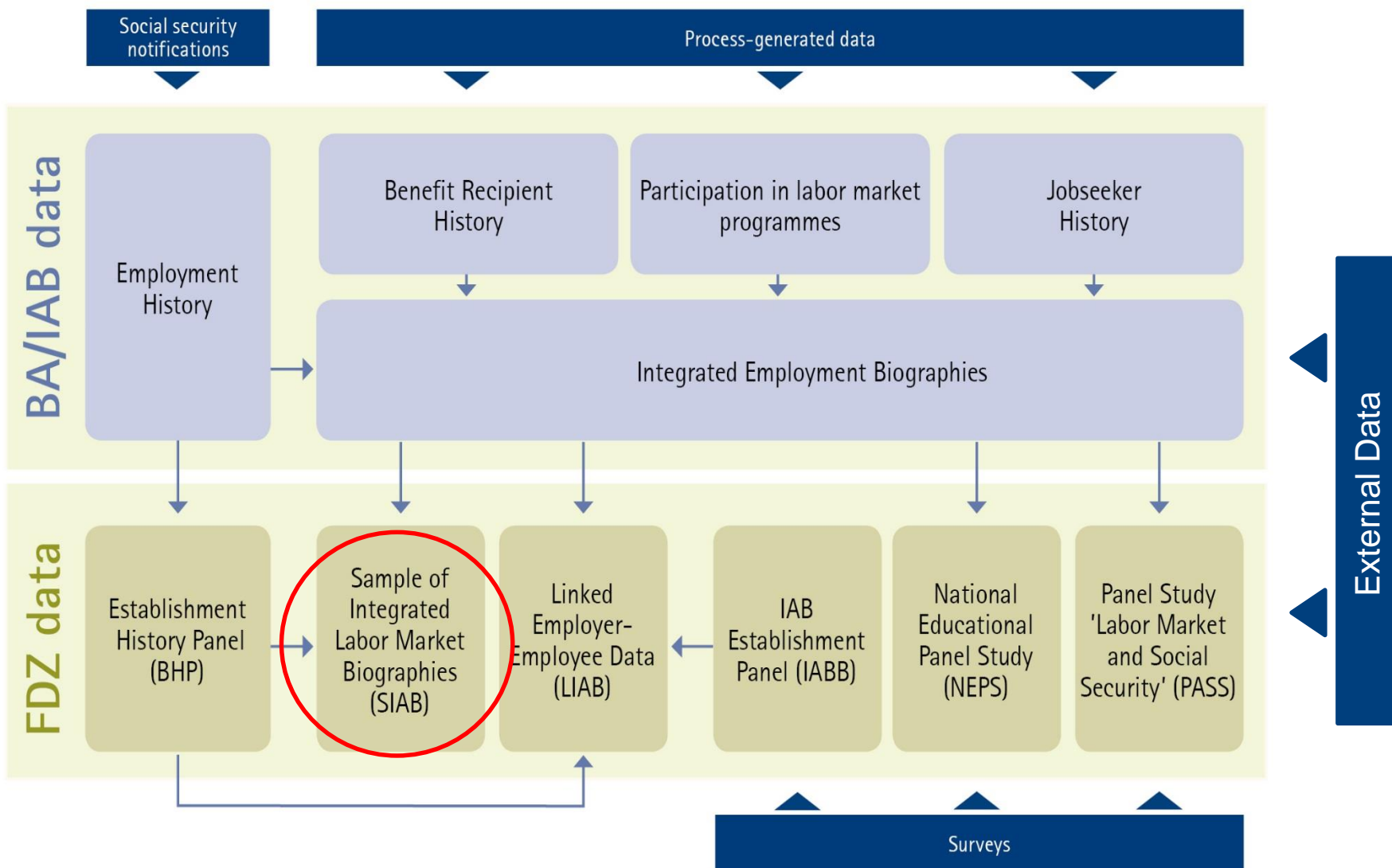
Establishment History Panel (BHP)

- Repeated cross sectional dataset on all establishments
 - At least one employee liable to social security (until 1998)
 - And/or at least one marginal worker (since 1999)
- Aggregation by establishment IDs and year
- 50% random sample
- Time reference: June 30
- Available years:
 - 1975 - 2016 in West Germany
 - 1992 - 2016 in East Germany
- 640,000 - 1.5 million establishments p.a.

BHP - Topics

- Establishment characteristics
 - Location
 - Industry
- Employment structure
 - Total
 - Male/female,
 - Full-time/part-time/marginal
 - Skill structure, task requirement structure
 - Age structure
 - Nationality
 - Occupational structure
- Wage structure
- Worker inflows and outflows
- Classification of establishment entry and exit
- Bankruptcies (new!)

Data Available at FDZ - SIAB



Sample of Integrated Labor Market Biographies (SIAB)

- Individual labor market biographies based on social security records and BA process data
- From apprenticeship training until entry into pension system
- 2% random sample of the full population (based on individuals)
- Time reference: daily
- Available years:
 - 1975-2014 in West Germany
 - 1992-2014 in East Germany
- 1,757,926 individuals
- Information on:
 - Employment since 1975
 - Benefit receipt (SGB III since 1975, SGB II since 2005)
 - Registered job search since 1997
 - Participation in labor market programs since 2000

SIAB – Topics (I)

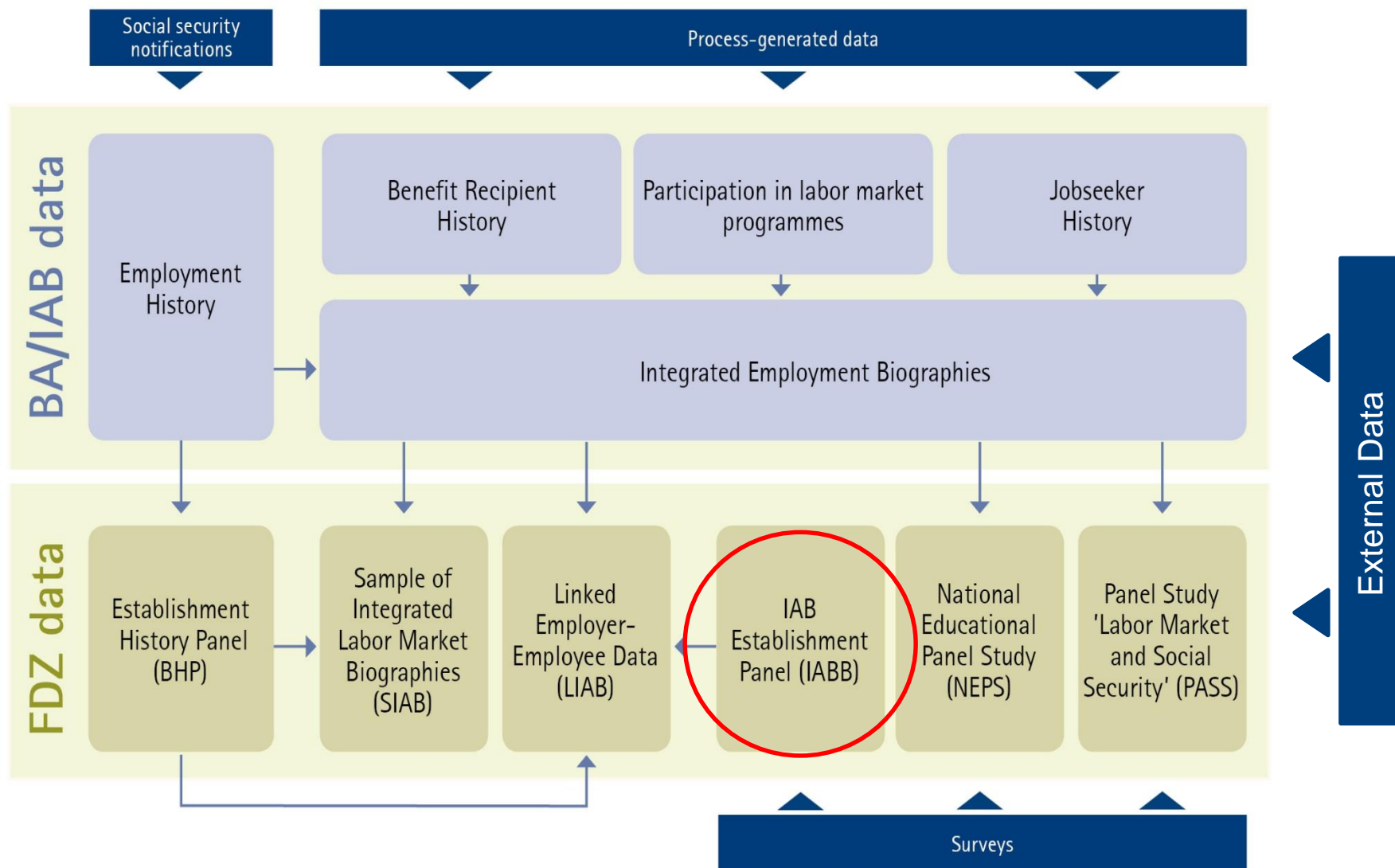
- Socio-demographic characteristics
 - Gender
 - Year of birth
 - Nationality
 - Marital status
 - Number of children
 - Schooling and vocational training
- Information on employment, benefit receipt and job search
 - Beginning and end of employment
 - Benefit receipt and job search
 - Daily wage
 - Occupation
 - Full-time/part-time
 - Employment status
 - Beginning/duration of unemployment, etc.

SIAB – Topics (II)

- Information on location
 - Place of residence and work
 - Federal state
 - District
- Information on establishment
 - Branch of industry
 - Total number of employees
 - Employment structure
 - Average wage at the establishment

→from Establishment History Panel (BHP)

Data Available at FDZ – IAB Establishment Panel Survey



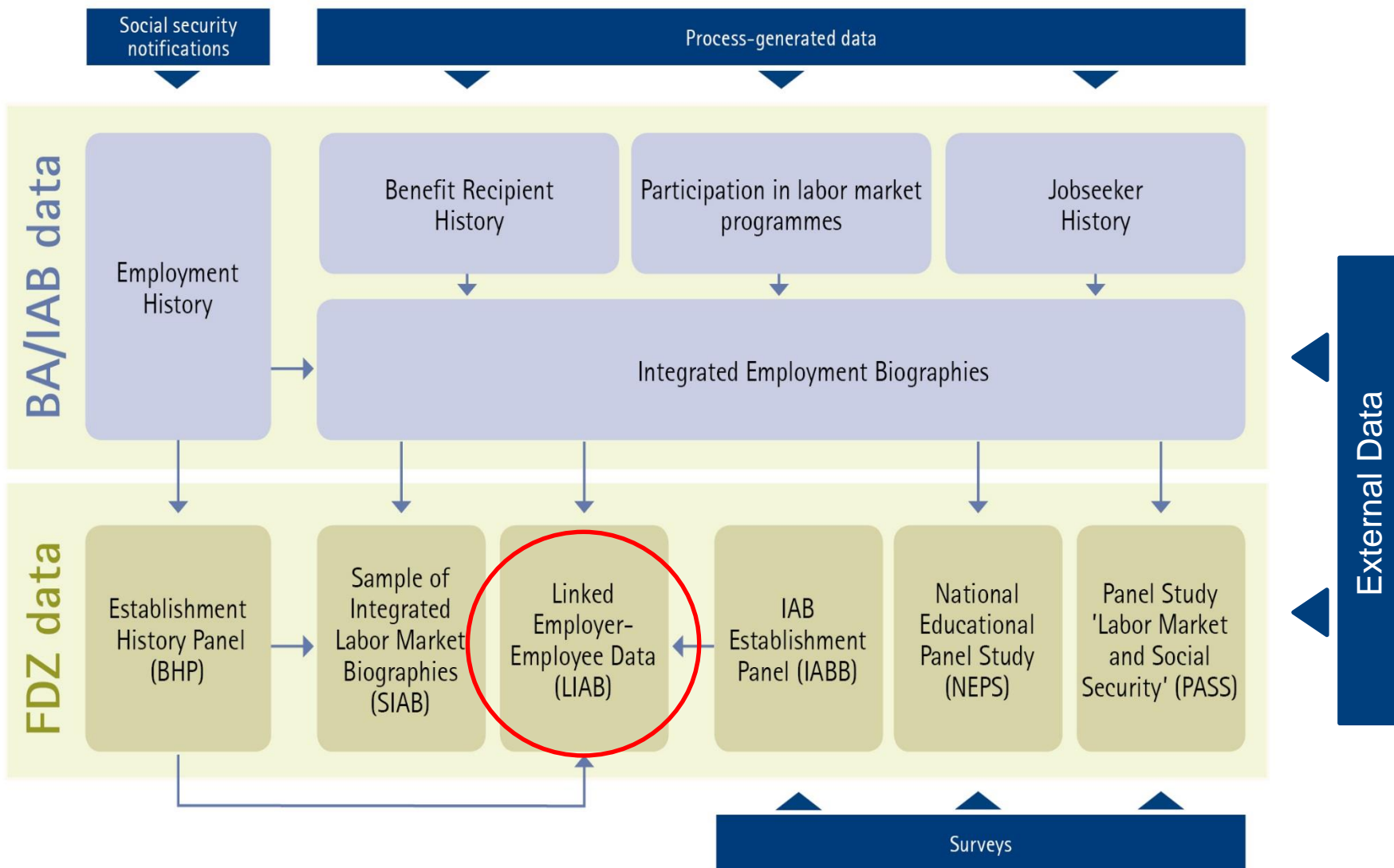
IAB Establishment Panel Survey (BP)

- Annual representative survey
 - Since 1993 in West Germany
 - Since 1996 in East Germany
- ~ 16.000 establishments per year
- Establishments with at least one employee liable to social security on June 30th of the year before
- Stratified according to establishment size, industry and federal state

BP - Topics

- Annual topics:
 - General establishment information
 - Employment development
 - Personnel structure
 - Vocational training and apprenticeship places
 - Recruitments and dismissals, personnel search
 - Training
 - Business policy and development
 - Investments
 - Innovations
 - Wages
 - Working hours
- Alternating special focus topics
 - Financial crisis
 - Job security
 - Minimum wage

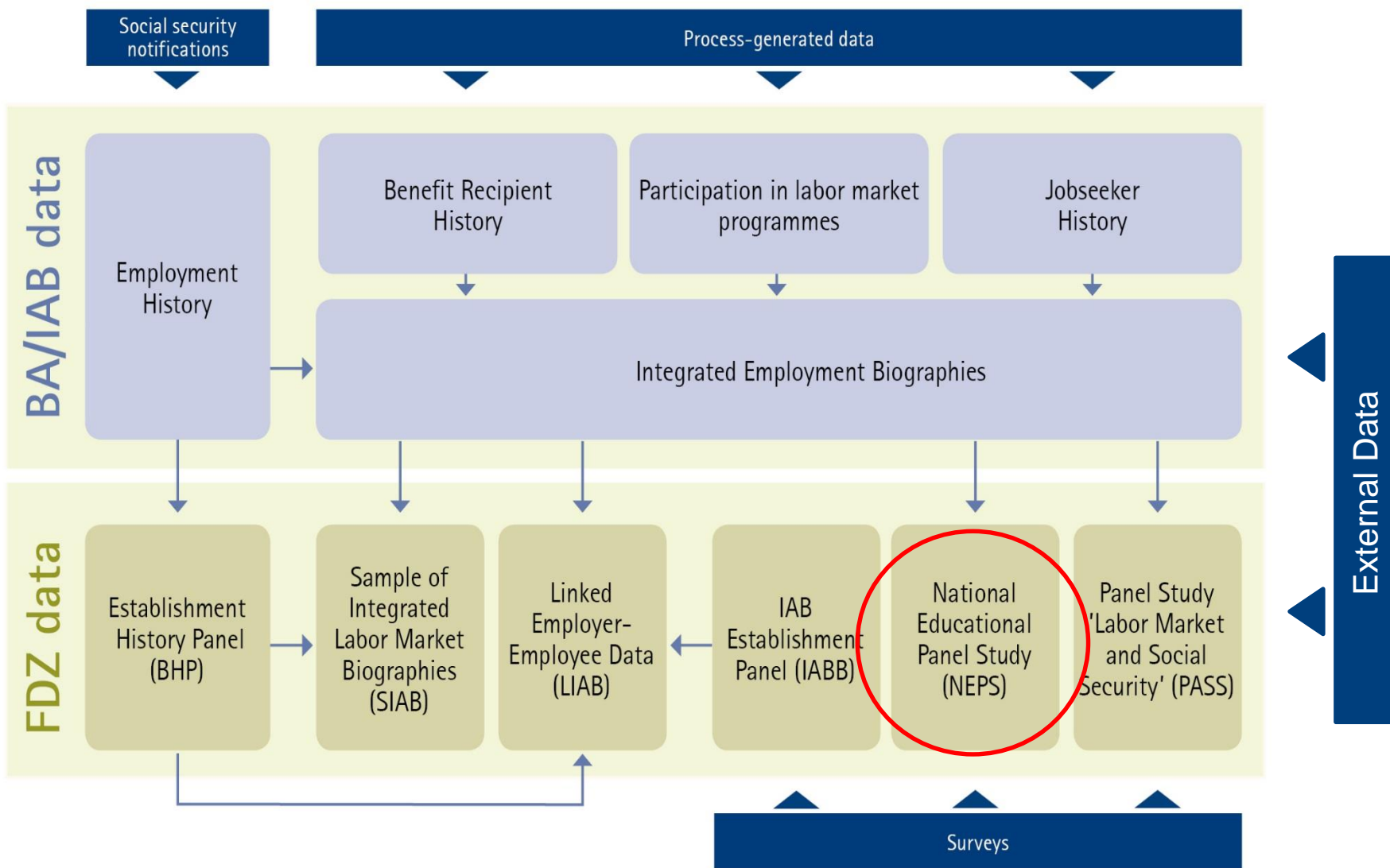
Data Available at FDZ - LIAB



Linked-Employer-Employee Data (LIAB)

- Worker information from administrative data are linked to the BP
- Two versions of the LIAB are available:
 1. **Cross-sectional model:**
 - *All* establishment surveys from the IAB Establishment Panel combined with administrative worker data from IEB database *on June 30th*
 2. **Longitudinal model:**
 - *Selection of repeatedly interviewed* establishments from the IAB Establishment Panel combined with *longitudinal* worker biographies from the IEB database

Data available at FDZ – NEPS-ADIAB



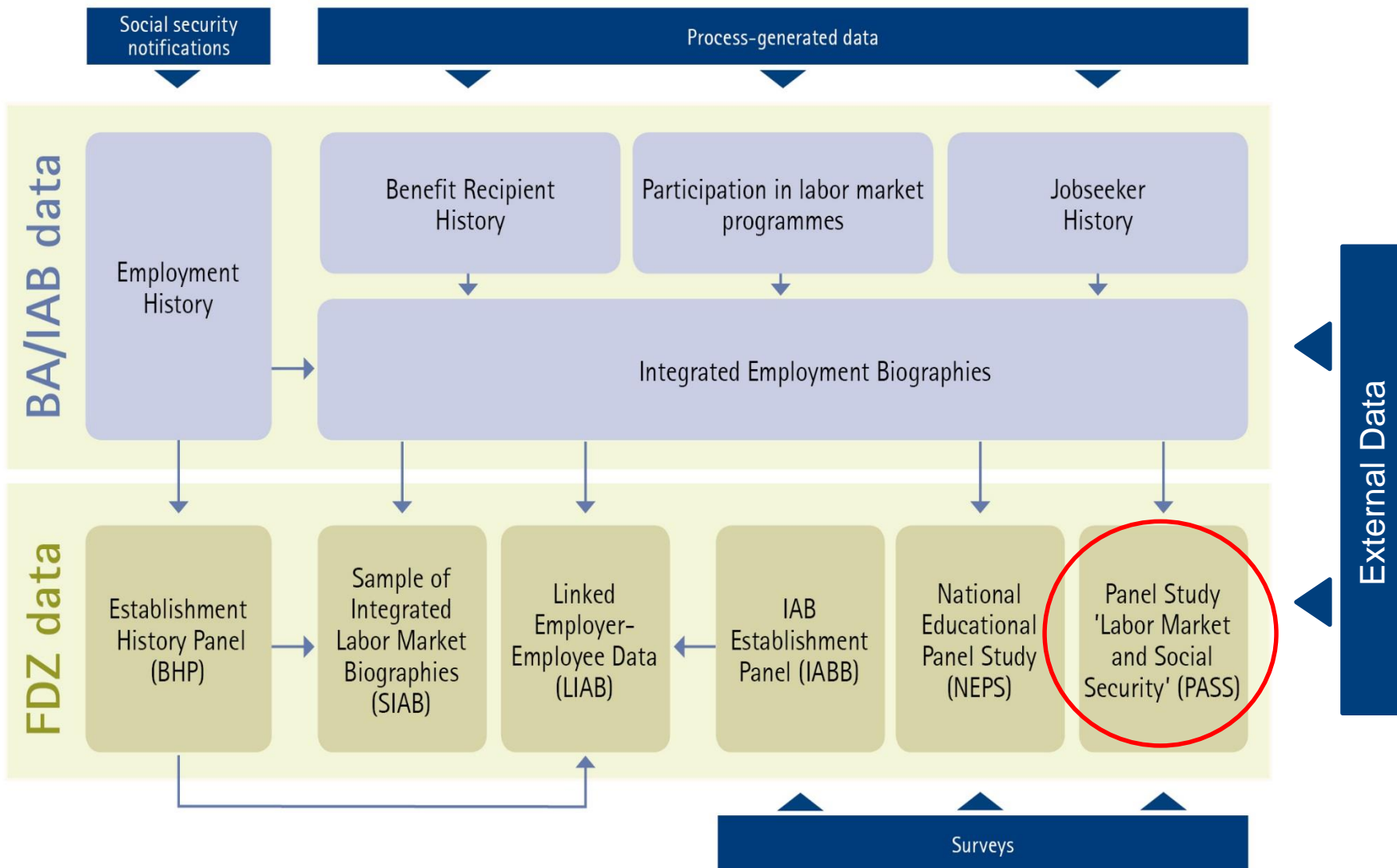
National Educational Panel Study (NEPS)

- Longitudinal survey
- Educational trajectories in different contexts and development of competencies throughout the life course
- Multi-cohort-sequence study (six cohorts)
- Starting Cohort 6 (SC6)
 - Adult Education and Lifelong Learning
 - Biography
 - Educational and occupational
 - Family
 - Education
 - Further education and training
 - Competency tests

NEPS-SC6-ADIAB

- Currently 8 waves between 2007 and 2016
 - ~ 7 000 to 14 000 respondents per wave
- Target population:
 - Born between 1944 and 1986
- Linkage between NEPS SC6 survey and administrative data
 - Record linkage based on name, address, sex and birthdate
 - 92% linkage consent rate for waves 1-5
 - 90% successful linkage (12,660 cases)
 - Administrative biographies: 1975-2014
- Survey-information combined with
 - Establishment data from Establishment History Panel
 - Individual long-run labor market biographies

Data available at FDZ - PASS



Panel ‘Labor Market and Social Security’ (PASS)

- Annual household survey since 2006/2007
- Labor market and poverty situation in Germany
- Situation of recipients of benefits in accordance with SGB II
 - Recipients of Unemployment Benefit II (“Hartz IV”))
- Two random samples from two partial populations:
 - Persons and households in receipt of Unemployment II Benefits
 - All households with persons registered as residents of Germany
- 10 waves are currently available
- Combined data: PASS-ADIAB

Other Research Datasets

LidA

WeLL

IAB-
SOEP
MIG

EGS

https://fdz.iab.de/en/FDZ_Overview_of_Data.aspx

ALWA

LPP

IAB-
BAMF-
SEOP
refugees

BASiD

GMOP

4. Data Access

Access Modes

**Campus File,
Scientific Use File**



Download



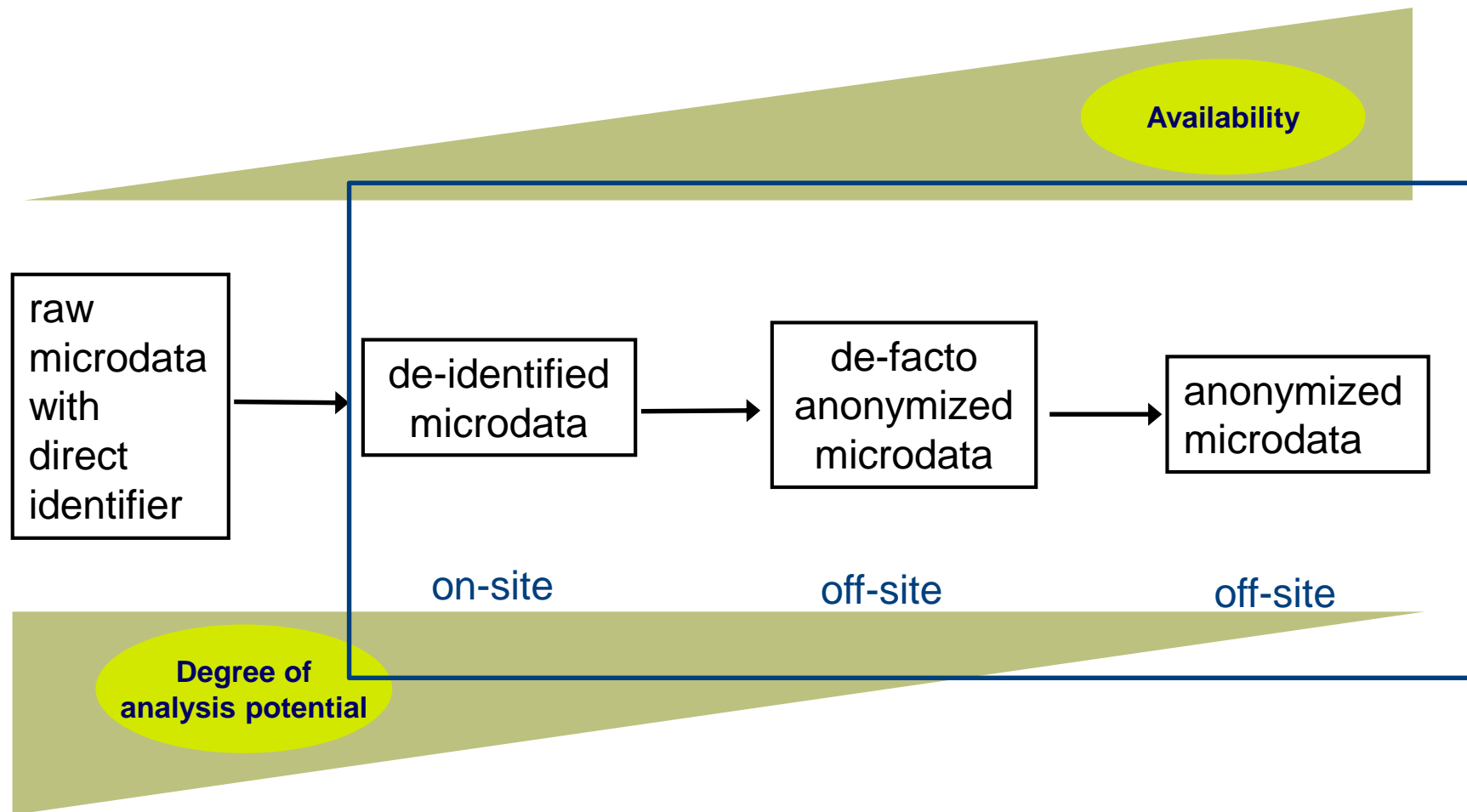
On-site



FDZ

**Remote data
processing**

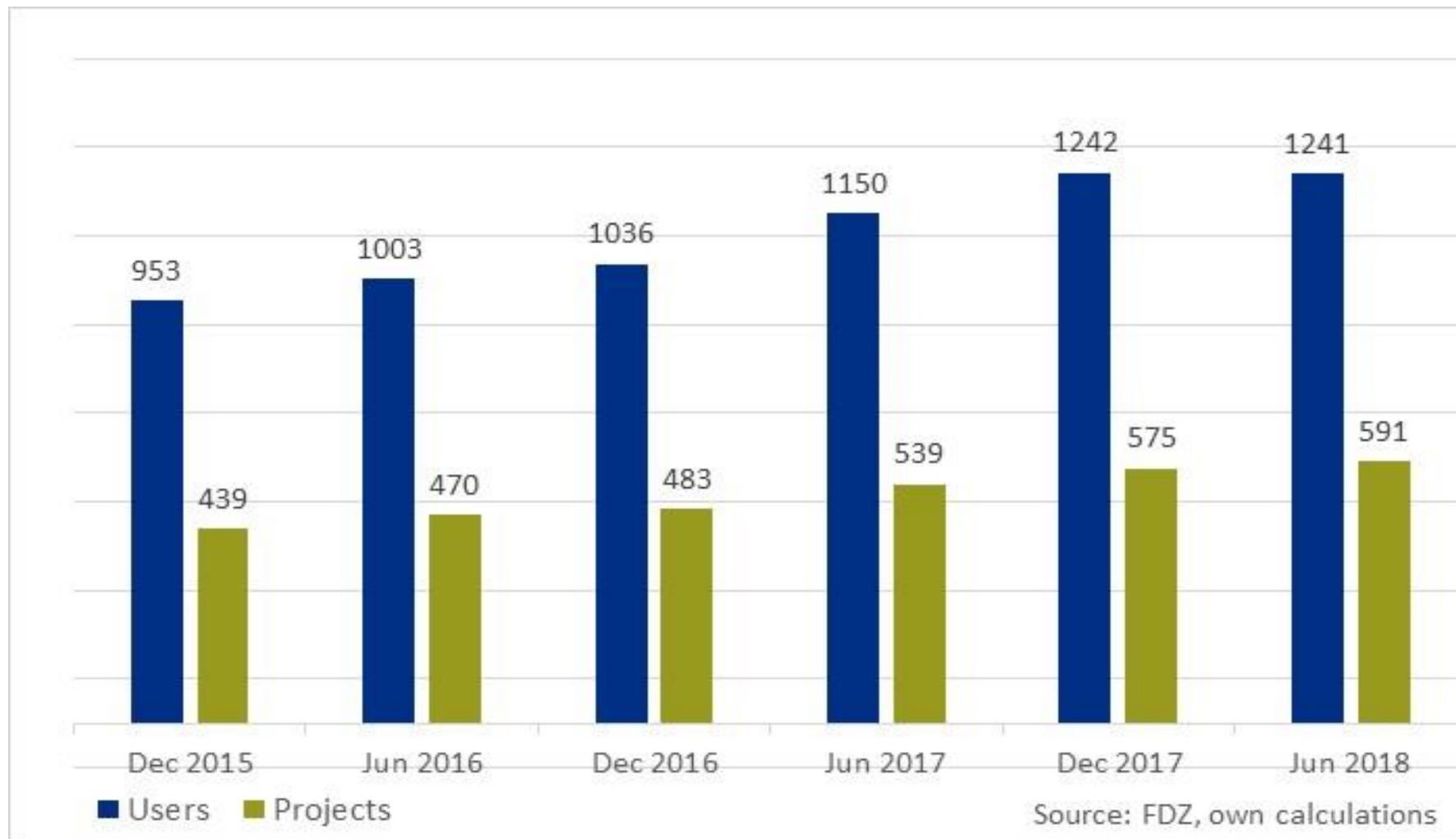
Types of Data Access



Data Access Steps

1. Non-technical project proposal (<http://fdz.iab.de/en.aspx>)
 - Important advice:
 - One research question
 - One research goal
 - Choose **one** dataset
2. Approval by FDZ
3. Use agreement with the institution of the researcher
 - No fees
 - Duration depends on demand and clarity of research proposal
4. On-site use
 - Make appointment well in advance
 - Availability depends on demand

Number of Users



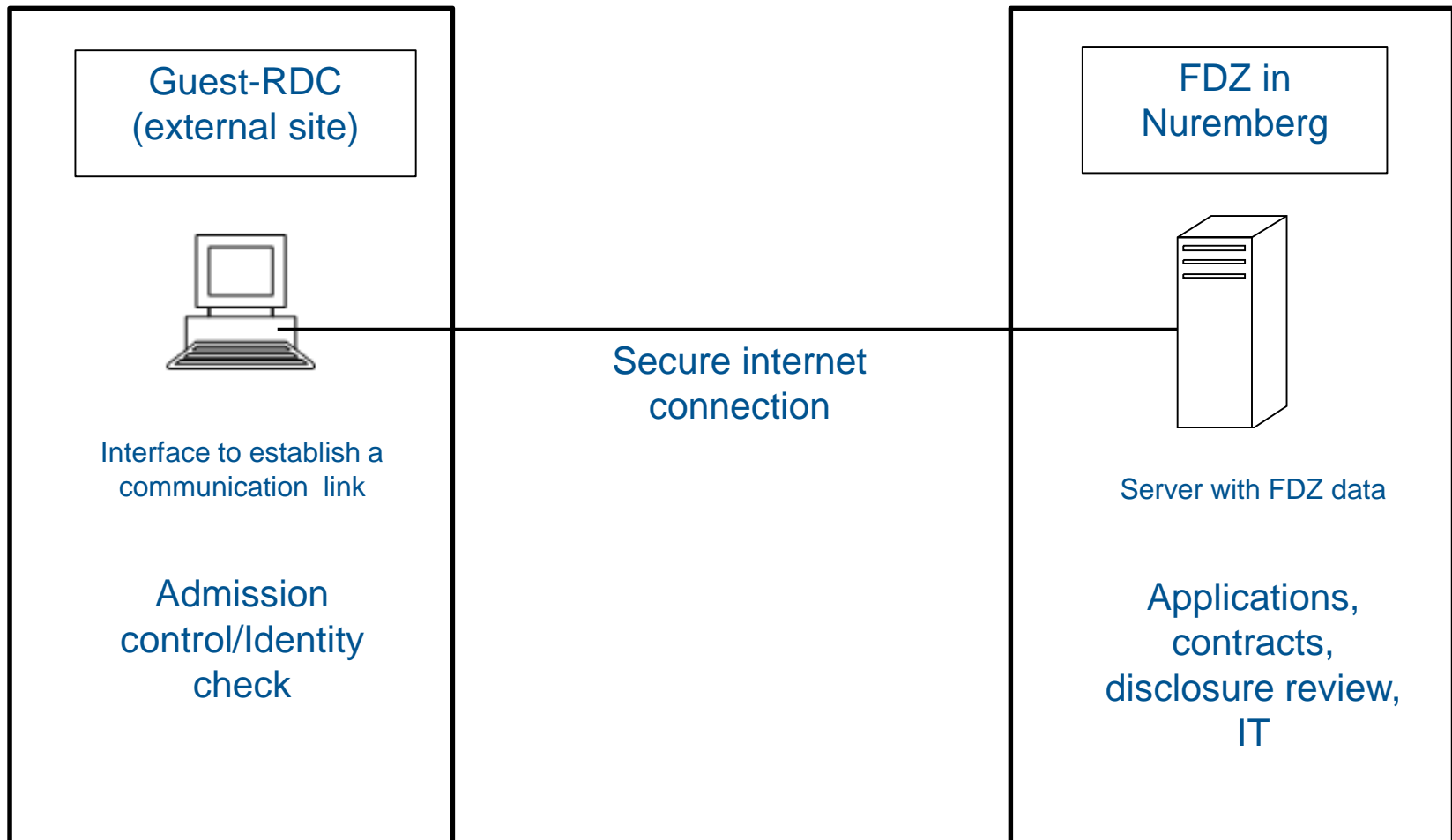
On-site in Nuremberg and Palaiseau



Remote Access Centers



On-site at a Remote Access Center





Login



Username:

Password:

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Login




<https://josua.iab.de>

JoSuA: Job Submission Application

- Application to automate remote data processing
 - Developed by the Institute for the Study of Labor (IZA)
 - Adapted version implemented at FDZ in April 2015
- Remote data processing with JoSuA:
 - Researchers submit jobs via web interface
 - Jobs are automatically picked up and processed using statistical software (Stata)
 - Verified results are transferred back to the web interface
- Two modes available:
 - Internal use
 - Presentation publication

Job Submission Window

My Jobs Projects Job Submission

You are: **doej9999**   

▼ Web Submission

FDZ9999

▼

Stata13

▼

Internal Use

Presentation / Publication

Additional Comment
only available for
Presentation /
Publication

Submit Job

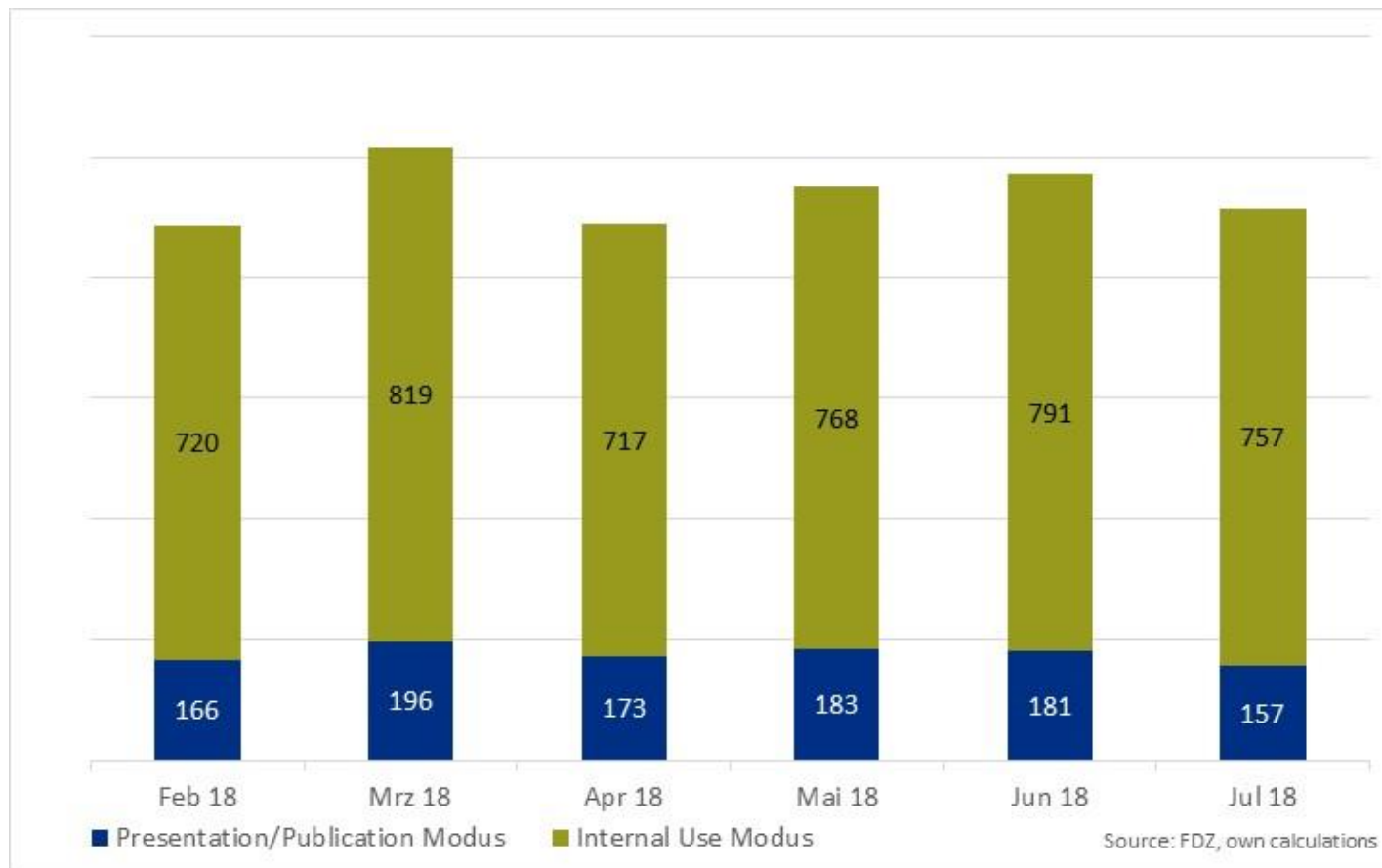
No files have been
selected

Choose the files you wish to upload.

Durchsuchen...

50

Number of Jobs via JoSuA



Guidelines

Remote Data Access and On-Site Use



- First Steps
- Structure of the Program Files
- Data Usage
- Results & Publication of Results
 - Make sure you test all programs before submitting them
 - Use test data
 - Use internal mode
 - Use external mode only for presentation and publications!
- Special Arrangements for Other Software
- JoSuA Manual

Result Window for Internal Use Mode

Output Files

Search: <input type="text"/>			
Name ▲	Status ▼	Size ▼	Options
<u>01_descriptives.log</u>		7.2 KB	🔍
<u>02_analyses.log</u>		1.7 KB	🔍
<u>master.log</u>		452 B	🔍
Showing 1 to 3 of 3 entries			

Output Files









master.log-1...
01 descriptive...
01 descriptive...
01 descriptive...
01 descriptive...
01 descriptive...
01 descriptive...





01 descriptive...
01 descriptive...
02 analyses.l...

01_descriptives.log-5.png

Result Window for Internal Use Mode

OUTPUT CREATED BY DoeJ9999 ON 2016-09-07 13:19:48 FOR PROJECT FDZ9999

```
. sysuse lifeexp, clear
(Life expectancy, 1998)
```

```
. tabulate region, gen(d_region)
```

Region	Freq.	Percent	Cum.
Eur & C.Asia	44	64.71	/
N.A.	/	/	/
S.A.	/	/	/
Total	68	100.00	

```
. summarize d_region*
```

Variable	Obs	Mean	Std. Dev.	Min	Max
d_region1	68	.6470588	.4814377	0	1
d_region2	/	/	/	/	/
d_region3	/	/	/	/	/

```
. summarize lexp, d
```

Life expectancy at birth				
Percentiles	Smallest		Largest	
1%	/	54		
5%	/	/		
10%	/	/	Obs	68
25%	/	/	Sum of Wgt.	68
50%	73		Mean	72.27941
			Std. Dev.	4.715315
75%	/			
90%	/		Variance	22.2342
95%	/		Skewness	-.9080208
99%	/	79	Kurtosis	4.783111

```
. log close
name: <unnamed>
log: C:\Josua\Output\51061\logfile.log
log type: text
closed on: 7 Sep 2016, 13:19:19
```

Research Process

weeks

DATA: BY THE NUMBERS



www.phdcomics.com

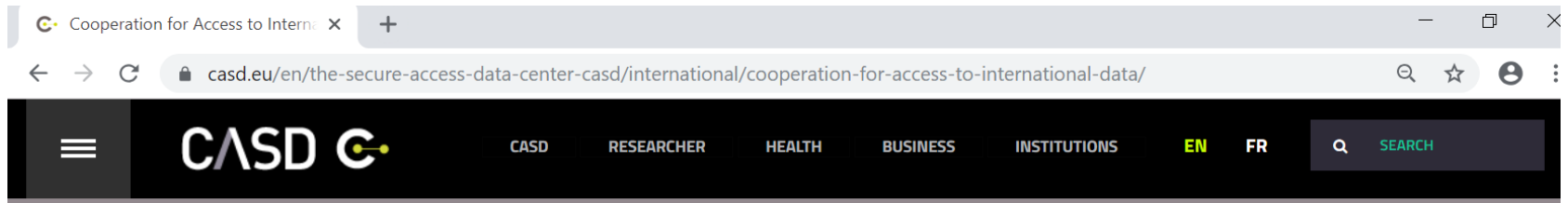
Your contact in Palaiseau

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5, avenue Le Chatelier
91120 Palaiseau, France

Marine Seilles
Phone: +33 1 70 26 69 33
E-Mail : service@casd.eu
Internet: <https://www.casd.eu/>

Opening hours with appointments only: Monday to Friday: 9:00 - 12:00 & 13:00 - 17:00

More Information



HOME > THE SECURE ACCESS DATA CENTER (CASD) > INTERNATIONAL > COOPERATION FOR ACCESS TO INTERNATIONAL DATA

CASD TEAM

EQUIPEX



INTERNATIONAL



CESSDA

CIMES

Cooperation for Access to
International Data

DwB

ESSNet Data

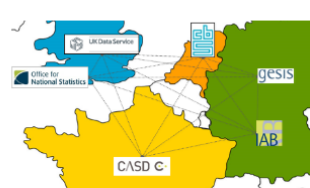
EssNet SCFE

KEY FIGURES

MISSIONS

PARTNERS

COOPERATION FOR ACCESS TO INTERNATIONAL DATA

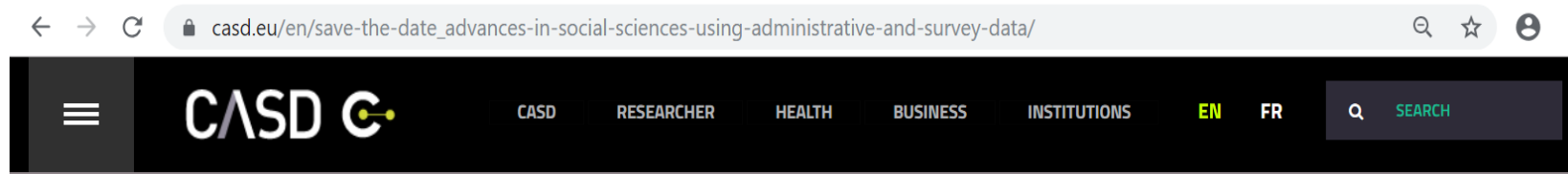


*Access to the data of the Institute for Employment
Research (IAB) available via its secure Research Data
Centre, FDZ*

Following the signing of the **agreement between CASD and IAB**, access points were set up in their respective institutions in Palaiseau and Nuremberg in order to facilitate partnerships and comparative work using French and German data sources.

The access point recently installed at CASD in Palaiseau is today **the only point of access in France** for consulting German data on **the topics of social security and employment** at the same level of detail as the

Save the Date !!!



HOME > NEWS > SAVE THE DATE ADVANCES IN SOCIAL SCIENCES USING ADMINISTRATIVE AND SURVEY DATA

SAVE THE DATE Advances in Social Sciences Using Administrative and Survey Data

First French-German conference on research based on confidential administrative and survey data

March 28-29, 2019, Paris, France

We are very pleased to announce the first CASD / IAB Conference on the advances in social sciences using administrative and survey data. The CASD and the IAB have recently established cross-country access to confidential administrative data in France and Germany. The aim is to foster and facilitate the use of rich register datasets – which can be partly combined with detailed survey data – from both countries and to improve the data sources for comparative research in social sciences.

The conference aims to bring together researchers using confidential administrative data in France and Germany and also welcomes researchers using similar data from other countries.

The program committee invites submissions in the field of economics and sociology related to labour markets, demography, trade and firms, migration and industrial relations. One session of the conference will present the comparable French and German datasets potentials for conducting comparative research for France and Germany and practical issues like how to access the data.

Two keynote lectures will be delivered by Christian Dustmann and Olivier Godechot.

Together with further information on the conference, submissions will be open in September preferably for full paper or an extended abstract (3-4 pages).

[Program Committee members](#)

Thank you!

Forschungsdatenzentrum (FDZ) der Bundesagentur für Arbeit (BA) im Institut für Arbeitsmarkt- und Berufsforschung (IAB)

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