



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

A metadata portal for complex research data in Germany: an application of DDI

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David Schiller, IAB

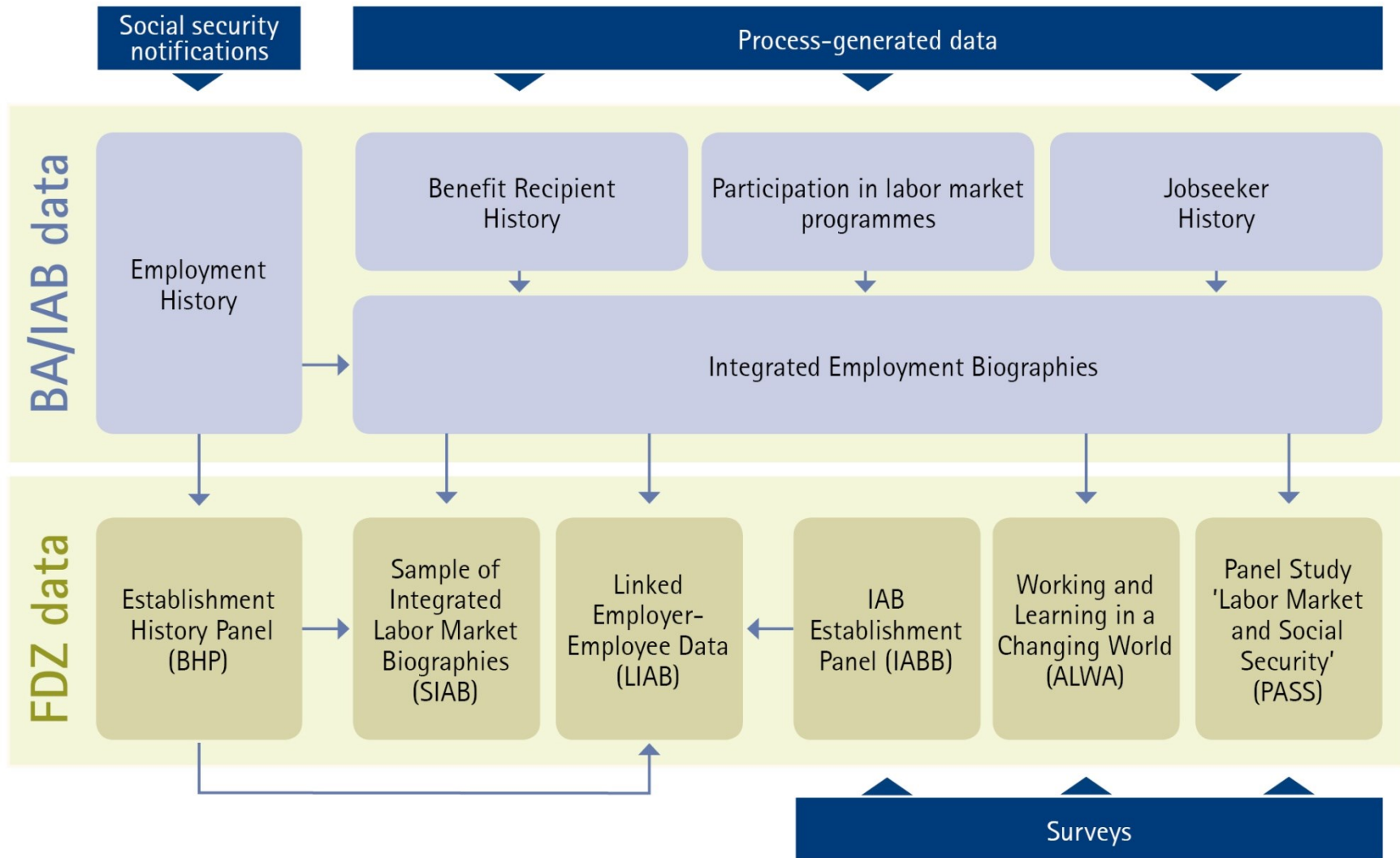
Dana Müller, IAB

Ingo Barkow, DIPF

Introduction

- The Research Data Centre (FDZ) of the German Federal Employment Agency (BA) at the Institute for Employment Research (IAB) is a member of the DDI Alliance.
- While supporting the standard DDI was not implemented in the internal structures of IAB.
- This is currently changed by a project that implements an metadata portal for IAB data.
- The project is carried out by a international consortium lead by DIPF/TBA21.
- IAB internal project lead is done by Dana Müller.

IAB data sources



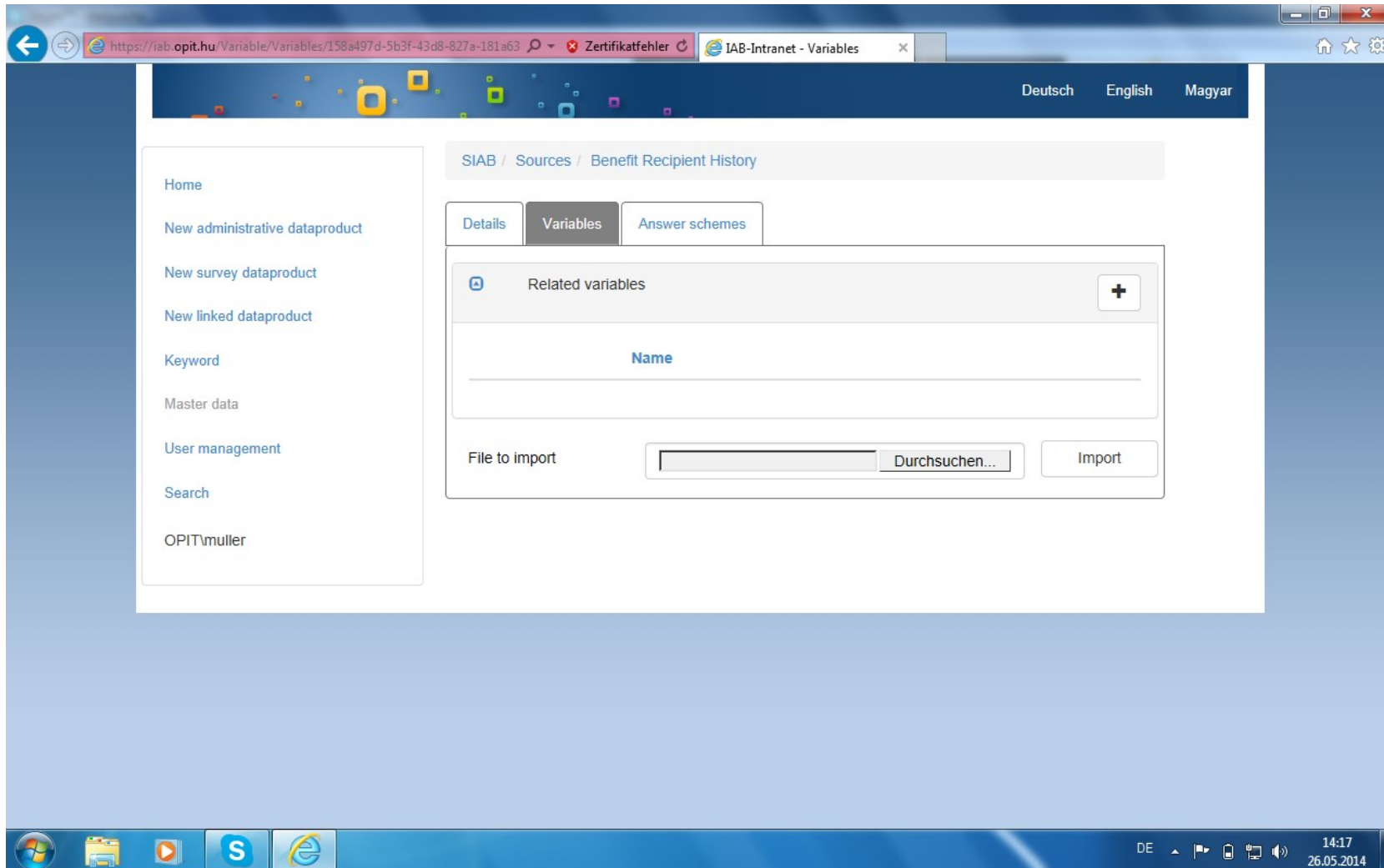
Complicated data sources

- Different data generation processes (surveys and administrative processes with different sources)
- Combined data (surveys and process generated data)
- Spell data (e.g. income spell, biographical spell)
 - Time period with identical characteristic
- Episode data
 - Generated to put overlapping spells into a fixed time frame (e.g. calendar year)

Features of the new meta data portal

- Accessibility (e.g. for people poor eyesight).
- Use of sustainable interfaces (e.g. via using DDI 3.2).
- Linking to IAB labor market keyword list.
- And more... (see next slides).

Import of XML files from Stata



Import of questionnaires

The screenshot shows a web browser window with the URL <https://iab.opit.hu/InstrumentQue>. The browser's address bar also shows a certificate error and a mail icon. The page title is "IAB-Intranet - Questionnaire ...".

The interface includes a navigation menu on the left with the following items: Home, New administrative dataproduct, New survey dataproduct, New linked dataproduct, Keyword, Master data, User management, Search, and OPIT\muller.

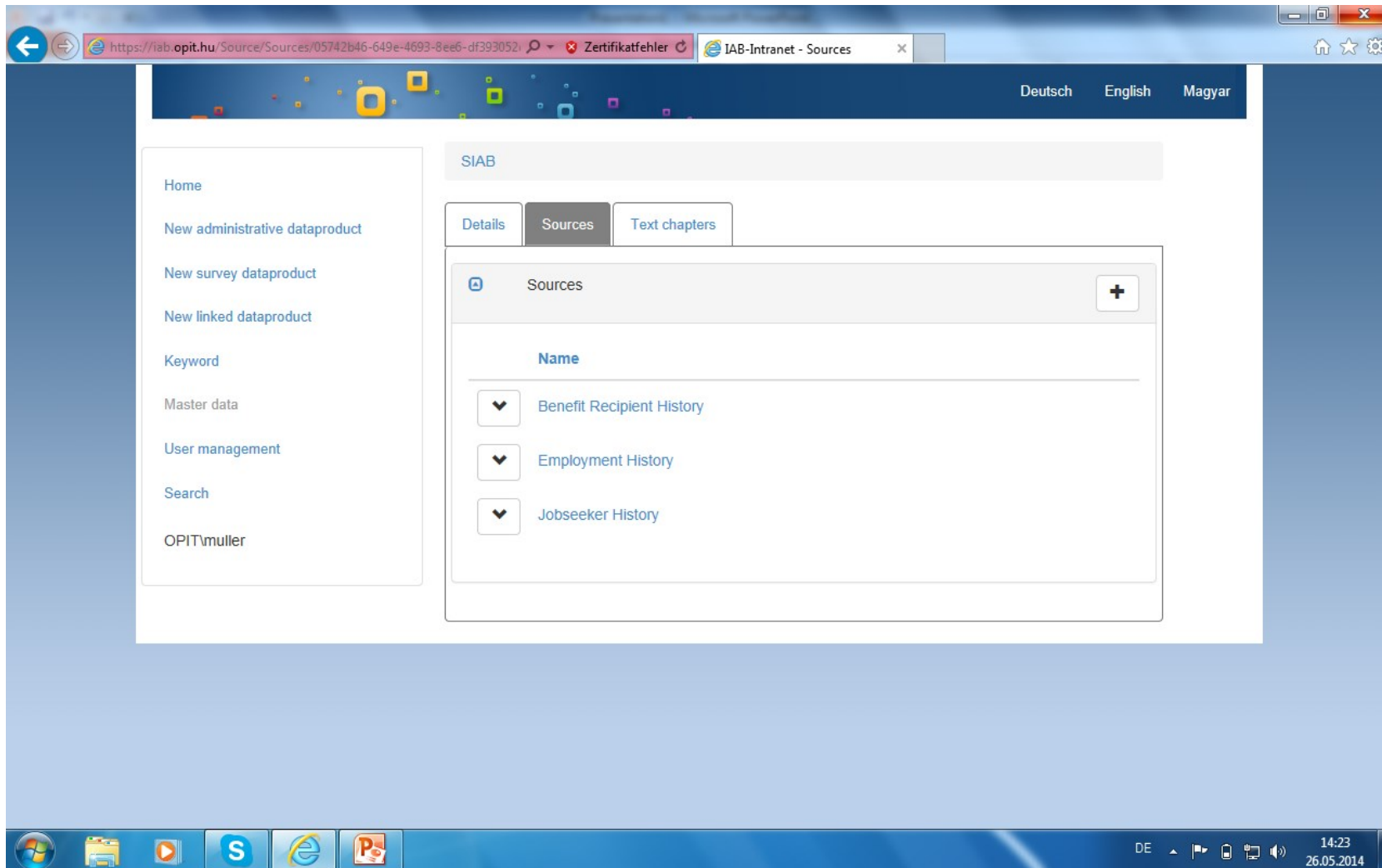
The main content area is titled "IAB-BP / Waves / IAB-BP_2009" and has two tabs: "Instrument" and "Question items". The "Question items" tab is active, showing a "File to import" section with a text input field, a "Durchsuchen..." button, and an "Import" button.

Below the import section is a table with the following structure:

Question number	Question text

The Windows taskbar at the bottom shows the system tray with the time 20:32 and date 02.06.2014, along with various application icons.

Incorporation of multiple data sources



Import and support for multiple sources

- IAB cares about different data sources:
 - Existing data sets stored in Stata.
 - Data sets deriving from questionnaires.
 - Process generated data from multiple sources.
- All of them have to be incorporated in the data documentation system without running into issues of non-working interfaces.
- Solution: use of exchange standards to import information.

The future – even more data sources

- IAB offers a powerful source of research data.
 - Information about everybody how was employed from 1975 on a daily basis.
 - Additional information coming from surveys to enrich the process generated data.
- In the future linkage with surveys not generated by IAB and with other process generated data sources (including Big Data).
- Current exchange format of choice – DDI 3.2.

User roles management within IAB

https://iab.opit.hu/User/Edit/8eb0008f-5a52-4be3-9c7e-31f3fa974aaa

Zertifikatfehler

IAB-Intranet - User

Deutsch English Magyar

SIAB

Name: OPIT\Dana

First name:

Last name:

Expire date:

Role: Administrator

Active:

Save and return Save

Home

New administrative dataproduct

New survey dataproduct

New linked dataproduct

Keyword

Master data

User management

Search

OPITmuller

14:25
26.05.2014

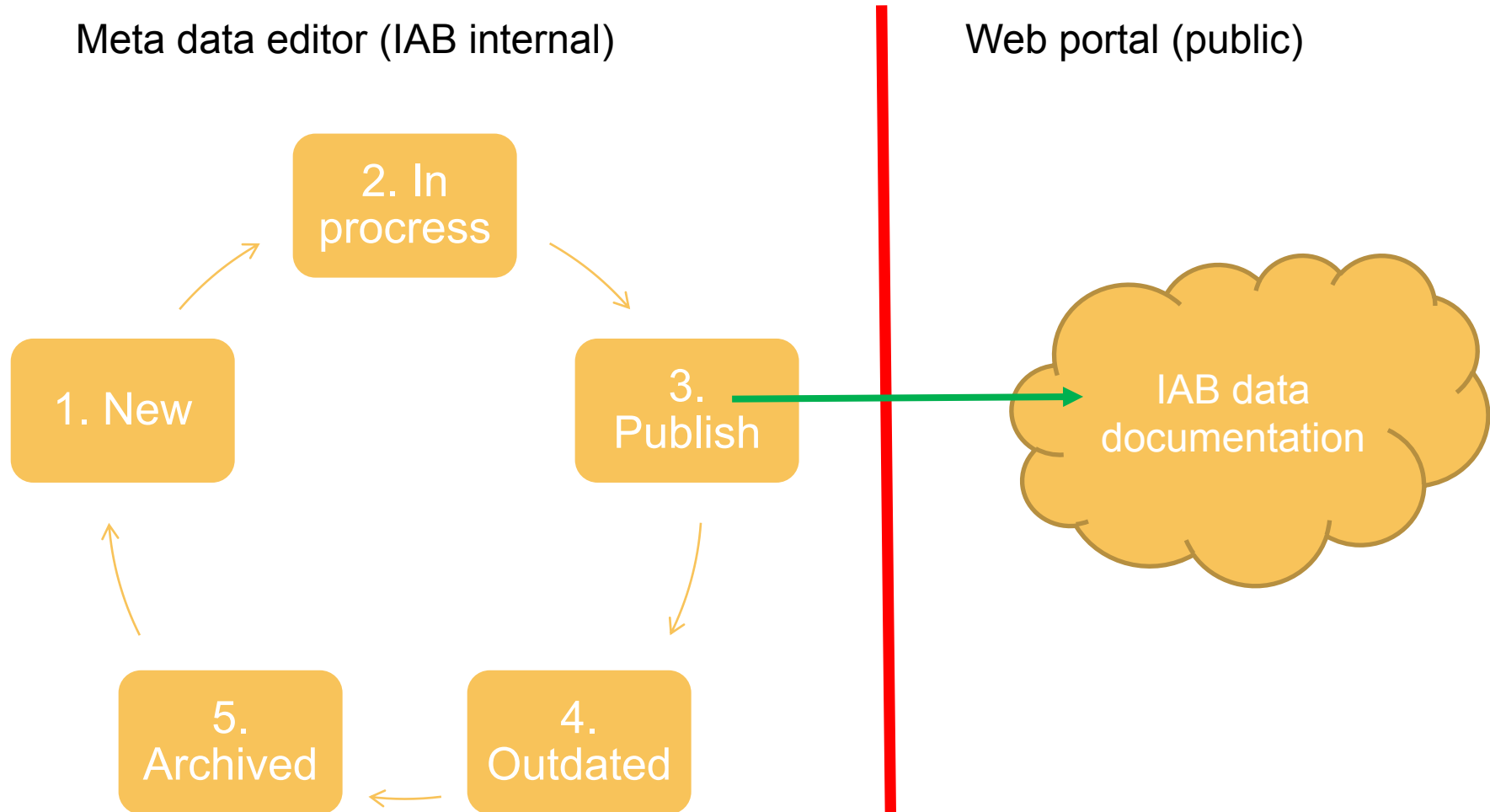
Structure of IAB data creation process

- A number of departments are involved:
 - ITM – extracting research data out of the data warehouse of the German Federal Employment Agency
 - Different departments (like “education and employment over the life course) – caring about survey belonging to their topic of interest
 - KEM – methods department responsible for data editing issues (weighting etc.)
 - FDZ – Research Data Centre giving access to external scientists
- Consequently: need for data documentation tool that supports the data creation process.

User roles within IAB

- Administrator (IT) – god father of software solution
- Administrator (FDZ) – responsible for issues related to final release of data documentation
- Administrator (Departments) – responsible for department related data documentation issues
- Editor – user responsible for creating data documentation
- Publisher – user responsible for final expectance of data documentation
- Reader – user only able to look at the documentation

Metadata editor and web portal



Outlook

- Software was developed at OPIT (software development company) in Budapest, Hungary.
- Complicated process of implementation into IT structures of the German Federal Employment Agency.
- Currently two equal versions in Hungary and Germany.
- Need for further testing and developing.
- Solution should go live in the 2nd half of 2015.



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Thank you for your attention

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