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# International Network for Exchanging Experience on Statistical Handling of Granular Data (INEXDA).

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# International Network for Exchanging Experience on Statistical Handling of Granular Data (INEXDA).

## **Abstract**

The financial crisis of 2007/08 has highlighted the need for using granular data on financial institutions and markets to detect risks and imbalances in the financial sector. Administrative data producers are witnessing a growing need to improve granular data access and sharing. When sharing granular data, data producers face significant legal and technical challenges related to, among others, safeguarding statistical confidentiality.

To meet the demand of data users and data compilers for (granular) data sharing, the International Network for Exchanging Experience on Statistical Handling of Granular Data (INEXDA) was established on 6 January 2017. Current INEXDA members are the Banco de España, Banca d'Italia, the Banco de Portugal, the Bank of England, the Banque de France, the Deutsche Bundesbank, and the European Central Bank.

INEXDA provides a platform for administrative data producers to exchange practical experiences on the accessibility of granular data, on metadata as well as on techniques for statistical analysis and data protection. During the INEXDA meeting in Paris, Julia Lane has presented the Administrative Data Research Facility (ADRF). Following her presentation several INEXDA members expressed interest in obtaining more information about the approach taken by ADRF. This presentation describes the interaction between INEXDA and ADRF.

The views expressed here are those of the author and do not necessarily reflect those of the Deutsche Bundesbank, ADRF, or the INEXDA Network.

## **Comments**

**DOI** <https://doi.org/10.23889/ijpds.v3i5.1043>

# INEXDA

2018 ADRF Network Research Conference, Washington, D.C.

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IFC working paper on INEXDA <https://www.bis.org/ifc/publ/ifcwork18.htm>

- On 6th January 2017,



BANK OF ENGLAND



BANCO DE PORTUGAL  
EUROSISTEMA



- have launched the **I**nternational **N**etwork of **Ex**changing Experiences on Statistical Handling of Granular **D**ata (INEXDA), an international cooperative project to declare their willingness to further strengthen their cooperation.
- Since its foundation, the following institutions have joined INEXDA as members:

BANCO DE ESPAÑA  
Eurosistema



**TMB** TÜRKİYE CUMHURİYET  
MERKEZ BANKASI



BANCO  
CENTRAL  
DE CHILE

## INEXDA`s general mission

- INEXDA aims at
  - investigating possibilities to harmonise access procedures and metadata structures,
  - developing comparable structures of existing data and,
  - further fostering efficiency of statistical work with granular data.
- Ultimately: in line with G20 Data Gaps Initiative, INEXDA aims to facilitate use of granular data for analytical, research and comparative purposes by users within and outside the participating institutions, within the limits set by the applicable confidentiality regimes.
- INEXDA is an open network. It encourages other central banks, national statistical institutes and international organisations to join the network.

# Work programme for the first two years

## 1. Comprehensive inventory of data in all member institutions.

- ✓ Agreement on unified metadata schema.
- ✓ Setup of a platform to collect and exchange metadata.
- Start harmonising metadata across INEXDA member countries.

## 2. Inventory of existing data access procedures and registration processes for researchers.

- ✓ ECB pilot collection of information on access for researchers.
- ✓ ADRF for INEXDA proposed by Prof. Julia Lane (NYU).
- Workshop on data access in Q1 2019.

## 3. Dissemination of INEXDA results.

- ✓ Presentations at conferences
- ✓ Working papers
- Webpage

# INEXDA's Metadata Schema

1	Resource Type
2	Resource Identifier
3	Name of Dataset
4	Creator
5	DOI Proposal
6	URL
7	Language of Resource
8	Publication Date
9	Availability
10	Sampled Universe
11	Sampling
12	Temporal Coverage
13	Time Dimension
14	Collection Mode
15	Unit Descriptions
16	Descriptions
17	Geographical Coverage
18	Keywords
19	Alternative Identifiers
20	Relations
21	Publications

- Based on the GESIS DOI registration service da|ra (GESIS is cooperating with DataCite).  
<https://www.da-ra.de/en/home>
- Purpose is to foster harmonisation between INEXDA members and broaden metadata sharing within INEXDA and possibly outside.
- Name of metadata items closely follows da|ra conventions to enable seamless DOI registration, if desired later in the project.
- Is basis for INEXDA metadata database that was established to store and view metadata from INEXDA members.

# INEXDA Metadata Database

INEXDA The Granular Data Network

Searchresult

your search: All fields: (investment)  
 Active filters [x clear all] : x Keywords: Banks, depository institutions x Publication Date: 2017

results: 2  
 Your search returned 2 results in all shared INEXDA datasets.

**Monthly Balance Sheet Statistics**  
 Deutsche Bundesbank, Statistics Department (S), Monetary and Financial Statistics (S 1), Monthly balance sheet statistics (S 10)  
 published 2017-10-10, Version 1  
 On-site  
 view metadata in [English](#)  
 Status: in-house

**Statistics of the banks' profit and loss accounts**  
 Deutsche Bundesbank, Statistics Department (S), Monetary and financial statistics (S 1), Cross-sectional tasks and secondary statistics (S 14), Secondary statistics (S 14-3)  
 published 2017-07-25, Version 1  
 On-site  
 view metadata in [English](#)  
 Status: in-house

Number of (0) datasets: 2

Resource Types  
 Dataset (2)

Data provider  
 Deutsche Bundesbank (2)

Creator  
 Deutsche Bundesbank, Statistics Department (S), Monetary and Financial Statistics (S 1), Monthly balance sheet statistics (S 10) (1)  
 Deutsche Bundesbank, Statistics Department (S), Monetary and financial statistics (S 1), Cross-sectional tasks and secondary statistics (S 14), Secondary statistics (S 14-3) (1)

Geographic Coverage  
 Germany (2)

Keywords  
 Balance sheet (2)  
 Banks, depository institutions

Availability  
 On-site (2)

Publication Date  
 2017 (2)

- Current the 42 contributions to the database come from

Banca d'Italia	6
Banco de Espana	13
Banco de Portugal	2
Bundesbank	15
ECB	6

- Working paper on metadata schema will be published on IFC webpage (<https://www.bis.org/ifc/index.htm>)



# Work programme for the first two years

1. **Comprehensive inventory of data in all member institutions.**
  - ✓ Agreement on unified metadata schema.
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2. **Inventory of existing data access procedures and registration processes for researchers.**
  - ✓ ECB pilot collection of information on access for researchers.
  - ✓ ADRF for INEXDA proposed by Prof. Julia Lane (NYU).
  - Workshop on data access in Q1 2019.
  
3. **Dissemination of INEXDA results.**
  - ✓ Presentations at conferences.
  - ✓ Working papers.
  - Website

# Chronology of INEXDA meetings



## 1<sup>st</sup> INEXDA meeting in Lisbon

- INEXDA members (DE, FR, IT, PT, UK)
- *Guests:* BIS



## 2<sup>nd</sup> INEXDA meeting in London

- INEXDA members (DE, FR, IT, PT, UK)
- *Guests:* BIS, ECB, ES



## 3<sup>rd</sup> INEXDA meeting in Paris

- INEXDA members (+ECB, ES)
- *Guests:* AT, BIS, CL, MX, TR, UK (NSI)



## 4<sup>th</sup> INEXDA meeting in Basel

- INEXDA members (+CL, ECB, ES, TR)
- *Guests:* AT, CH, BIS, DE (NSI), Eurostat, MX, RU, UK (NSI)

Jan 2017

Jul 2017

Jan 2018

Aug 2018



## Memorandum of Understanding

Signing and publication



## INEXDA Metadata Tool by GESIS

### Working groups

1. Dissemination
2. **Metadata**
3. **ADRF**
4. Modes of accreditation
5. Contracts for research projects/bodies
6. Modes of data provision
7. Output control
8. Risk management for published results

### Data Access



**Thank you for your attention!**

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