

# The Italian experience and collaboration ISTAT-Bol in the exchange of registers' data for statistical purposes: a focus on the LEI

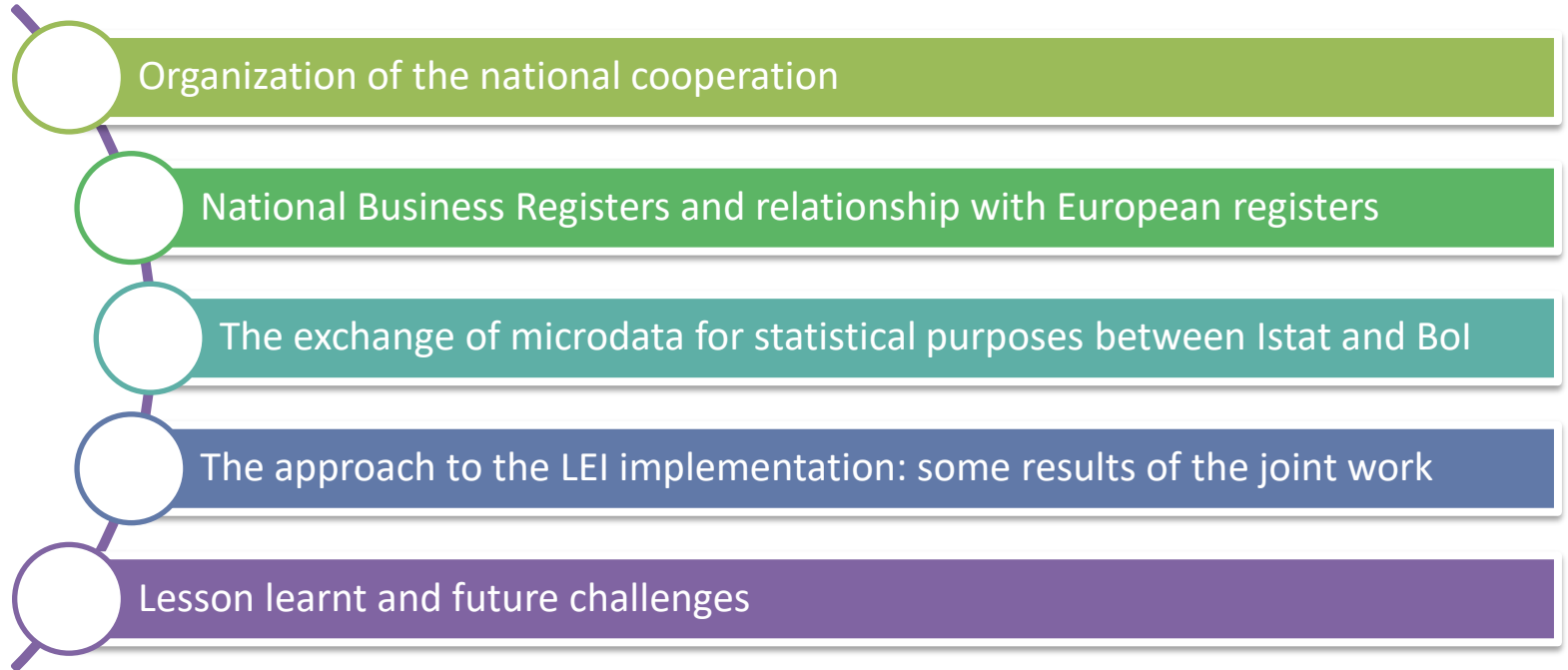
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# Contents



## Organization of the national cooperation

- ✓ The MoU between Istat and the Bank of Italy regulates the cooperation in the field of research and exchange of **statistical information** on topics of common interest in compliance with European and national regulations.
- ✓ The Coordination Committee approves the information exchanges and steers on the research areas.
- ✓ Currently, it is organized in **21 thematic subgroups** (WGs)

The mandate of the WG on «**Business Registers on enterprises and enterprise groups**»:

- increasing efficiency in the management of registers, considering that the two Institutions use partially overlapping sources and processes
- share information on the business registers of the two Institutions, taking into account the constraints and opportunities arising from national and European framework
- strengthening the coherence and the quality of the statistics produced by the two Institutions through the use of more complete and shared information
- Focus is mainly for the European statistics, but national statistical needs are also taken into account.

Goal



One joint business register for the two Institutions



To reach the maximum coherence of the population of corporations and their classification

# The exchange of microdata for statistical purposes between Istat and Bol

## Formal and structured procedure agreed to exchange data

### From Bol to Istat

**Approval of data request:**  
WG member proposes for approval the new data request to the Coordination Committee

**Data request form:**  
WG fills in the data request module that is signed by the responsible officer of the institution

**Sending of data request:**  
A Form is uploaded on Istat platform (Contact Centre)

**Provision of data:**  
Data upload on Istat platform (Contact Centre)

### From Istat to Bol

**Approval of data request:**  
WG member proposes for approval the new data request to the Coordination Committee

**Data request form:**  
WG fills in the data request module that is signed by the responsible officer of the institution

**Sending of data request:**  
A Form is sent to a functional email address of Bol

**Provision of data:**  
Data uploaded in MyDrive shared cloud

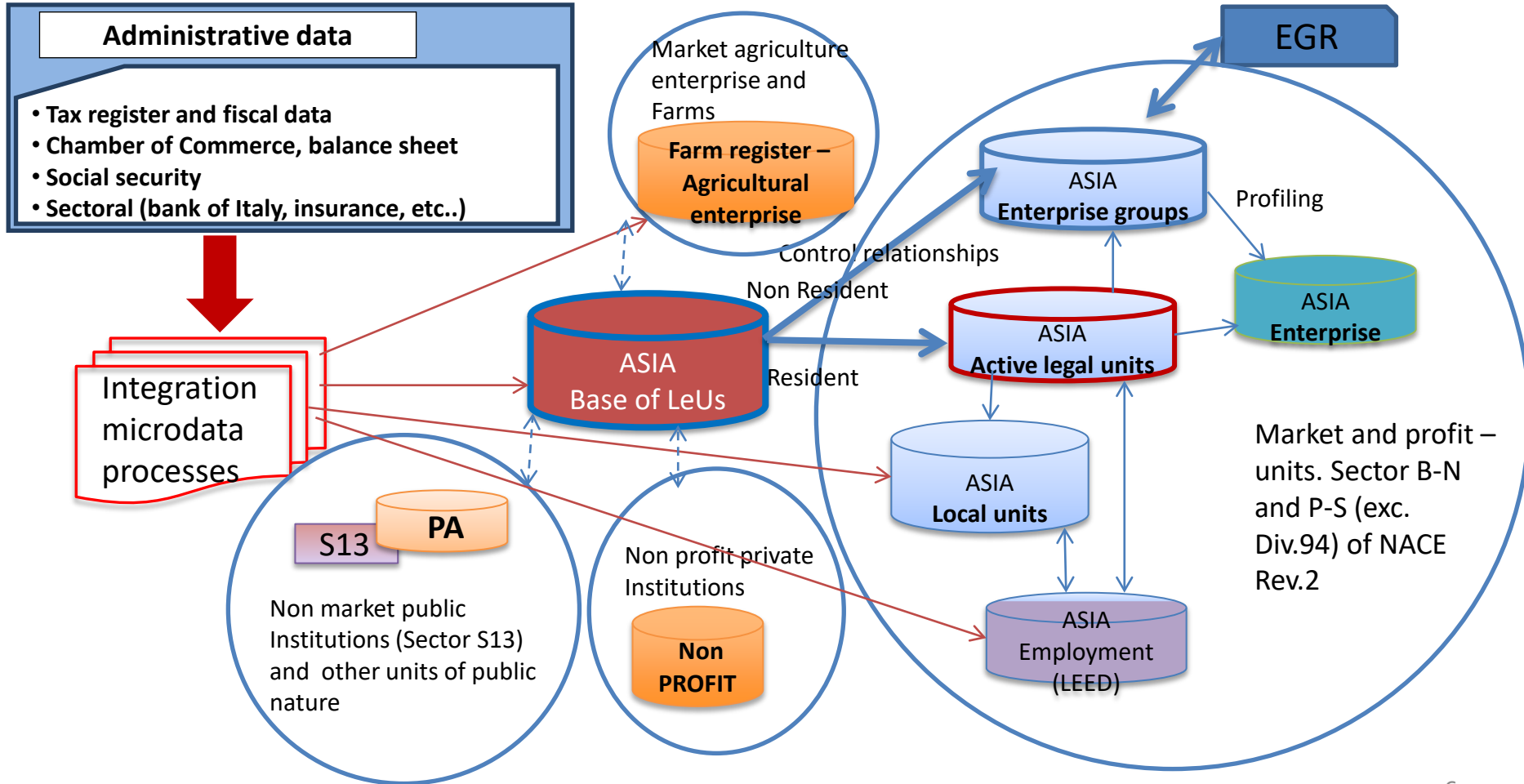
- Regulation (EU) **2019/2152** of the European parliament and of the Council of 27 November 2019 on European Business Statistics (EBS), repealing the Council Regulation (EC) No 177/2008 *establishing a common framework for business registers for statistical purposes*
- Council Regulation (EEC) No **696/93** of 15 March 1993  
(on the statistical units for the observation and analysis of the production system in the Community)

## Coverage of Statistical Business Register (SBR)

The **System of Statistical Register** (called ASIA) is organized as a set of registers aiming at covering different units and sectors of activity in terms of:

- SECTORS (market, public administration, non profit institutions, agriculture)
- STATISTICAL UNITS (Legal unit, Enterprise, Enterprise Groups, Local units, Kau)

## The System of statistical business registers



# The NSBR by ISTAT - The updating and maintenance strategy

Updating strategy is based on the massive use and integration of administrative and statistical sources

Production of the **Frozen file** and **continuously updating of the running file or live register (DB)**

1)

**Integration of administrative sources;**  
identification of legal units and statistical units (enterprises)

2)

**Assignment of attributes;**  
identification of statistical units, active in year t

3)

**Integration with statistical sources**  
information (mainly from the Business Portal)


4)

Quality control and Edit and imputation procedures; **final release of active enterprises (frozen register)**; internal and external dissemination; updating of "live register"

-**Tax Register:** legal and natural persons with VAT number; annual VAT; Sector studies; income tax  
-**Chamber of Commerce:** register of Enterprises and Local Units; shareholders of non listed companies; company's owners; consolidated and separate financial statements  
-**Consob** (supervisory Authority for the Italian financial products market): shareholders of listed companies  
-**Social security Authority:** employment data  
-**Italian Central Bank (Bank of Italy):** credit institutions; holding; financial intermediation


In summary, multiple techniques for updating:

- **Small units** (95% of the BR) are yearly/half-yearly updated using only Admin. sources
- **Medium units** (enterprises involved in surveys) are updated using the Business Portal
- **Large units** are continuously updated by internal SBR experts using all available information (mainly profiling activity)

 The **frozen file** is produced at one fixed time as an “edition” of the SBR that does not change during a defined period long (generally one year)

contains all enterprises that have been active\* during the year at least one month

\*Activity status is estimated using **signals of activity** for the enterprise (mainly presence of employment/turnover)

 The **running file/DB-ASIA** contains historical data *all the corrections and data updates will be at disposal of users (statistical surveys) before being put in the following edition of frozen file (to extract updated information for short term surveys)*



## Main Contents

- ✓ **Identification variables:** name, address, NUTS codes, Id. number of Leu, ENT, EG (national code) , EGR identity number (LEID), LEI Id.
- ✓ **Stratification variables:** i.e Nace, size, turnover
- ✓ **Demographic variables:** i.e. Dates, events
- ✓ **Control relationships:** i.e. parent-subsiary, shares

4,4 million of active Legal Units

4,3 million of enterprises

160 thousand active enterprise  
in 102 thousands EGs:

- 80% domestic

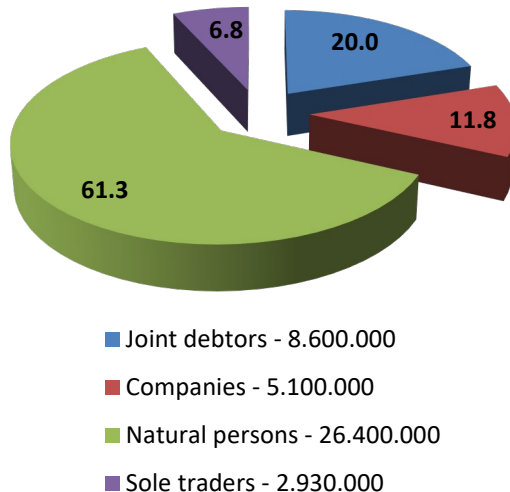
- 9% MNEs with foreign control

- 11% MNEs with italian control

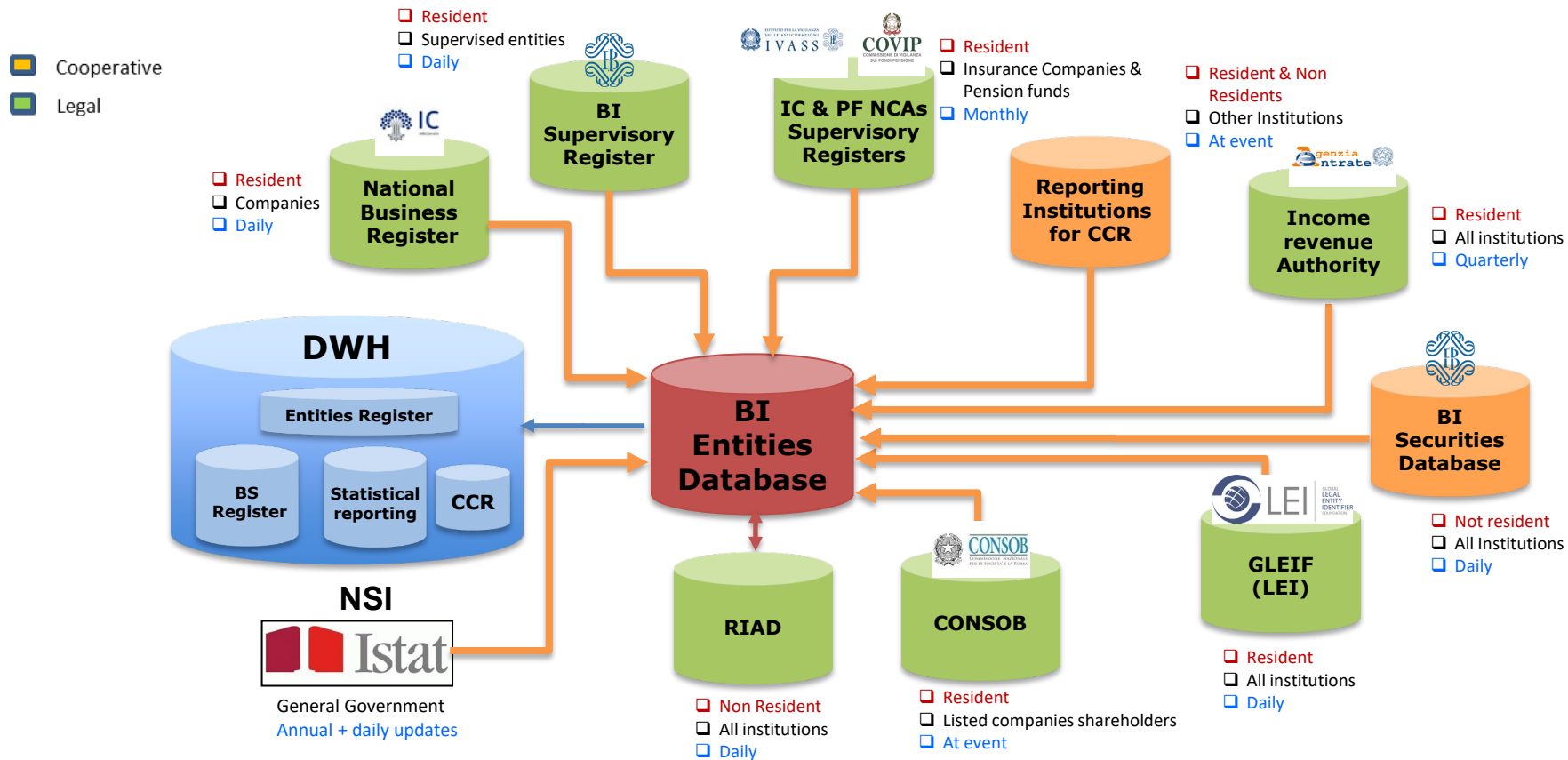


## The entity register of the Bank of Italy: what and who?

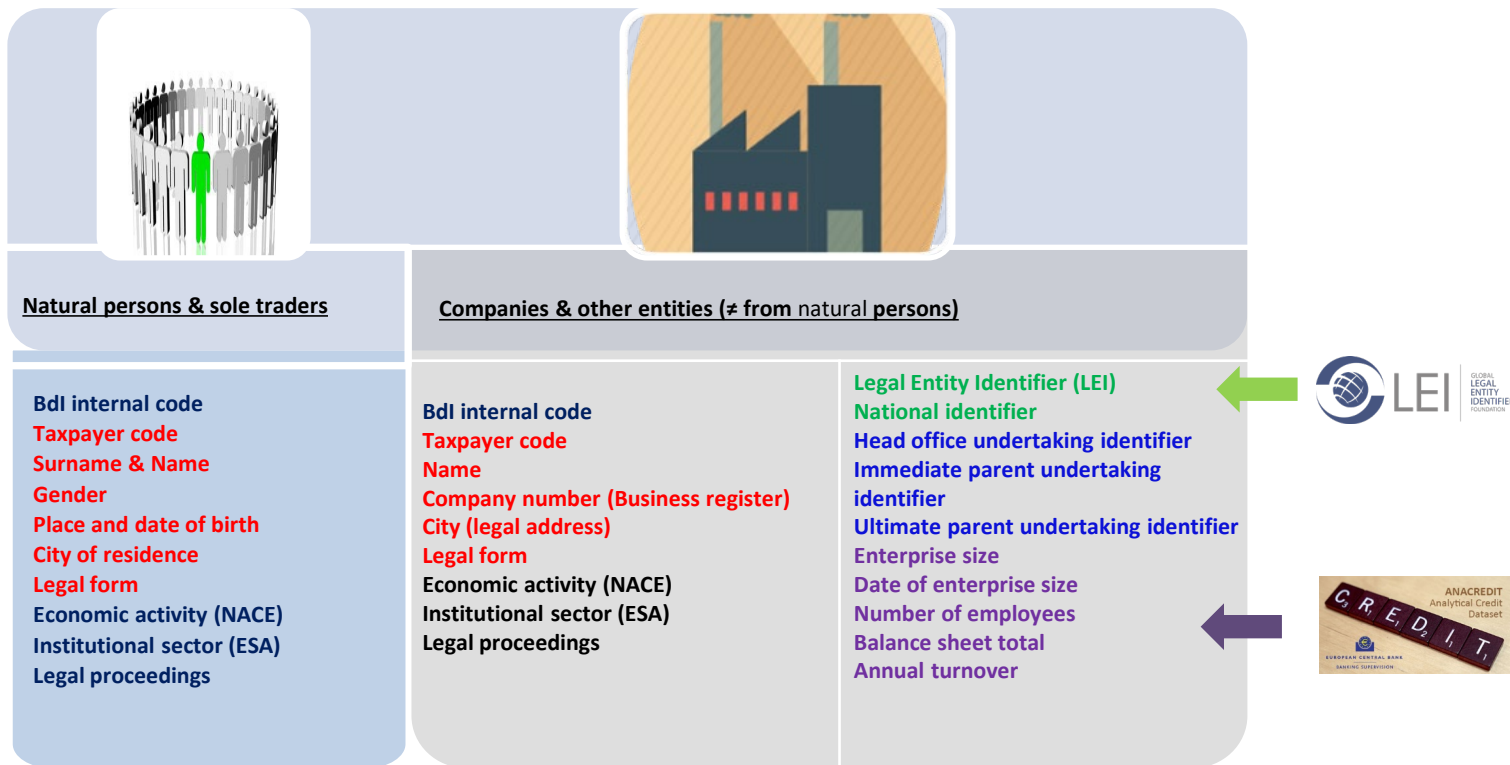
- The most extensive database of the Institute (more than 44 millions of subjects – natural persons, companies, joint debtors)
- A single database shared with all users:
  - ✓ External users (supervised reporting agents)
  - ✓ Internal users for multiple institutional functions (e. g. Supervision, Monetary policy, Statistics)
- A central pillar supporting the collection of granular data for all institutional purposes
- Identification strategy: BoI internal code - a unique and uniform ID code for all entities



# Feeding process

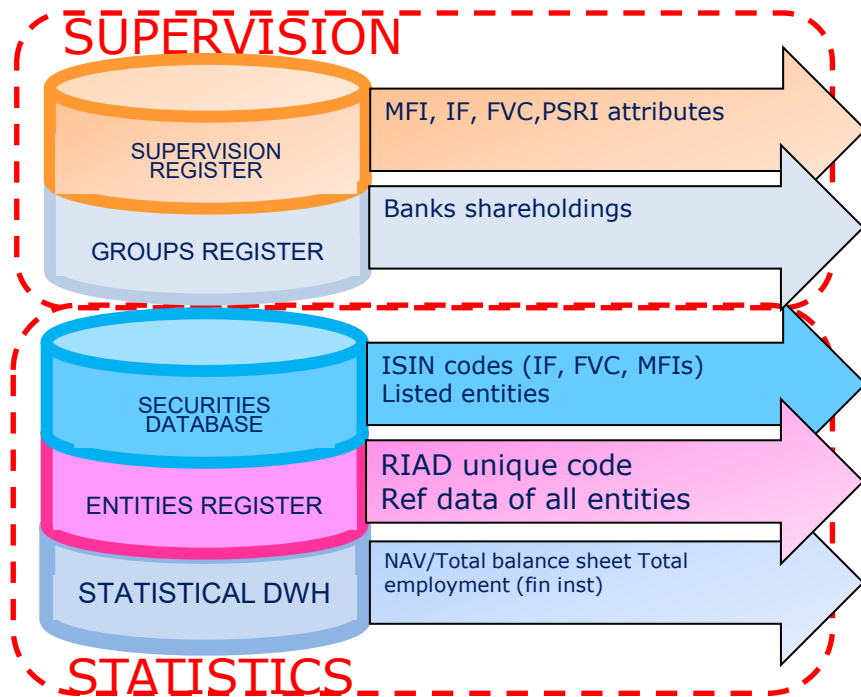


# The entity register: attributes



# From Bol to RIAD: data provision

Multiple data sources/procedures involved



# National Registers: a comparison between ISTAT and Bol

	ISTAT	Bol	Differences
<b>Maintenance, update and dissemination strategy</b>	<ul style="list-style-type: none"> <li>Administrative sources are annual supplies</li> <li>Current DB continuously updated by manual profiling activities and data collected by the Business Portal (medium-large units)</li> <li>Access to DB only for statistical internal processes</li> <li>Frozen file disseminated at T+15M</li> </ul>	<ul style="list-style-type: none"> <li>Continuous or at event update from different administrative and statistical sources</li> <li>Daily or at event internal data quality management</li> <li>Access to DB on a need-to-know basis</li> <li>No frozen file production</li> </ul>	<p>Istat – frozen file (Ref. Year T) disseminated at T+15M using admin data (T+1)</p> <p>vs</p> <p>Bol - continuous update from various sources</p>
<b>Coverage and classification</b>	<ul style="list-style-type: none"> <li>Statistical units (LeU, ENT, REL, EG) and variables (NACE, Activity status, residence, HC/HO...)</li> </ul>	<ul style="list-style-type: none"> <li>Legal entities and natural persons</li> <li>Direct and ultimate parent relationships</li> <li>Institutional sector, activity status, NACE, Legal form, residence</li> </ul>	<p>Istat – statistical estimation procedures for classification variables. More types of entites</p> <p>vs</p> <p>Bol – country of residence and activity status defined upon administrative sources</p>

# Cooperation and exchange of microdata for statistical purposes



- Branches, SPE and corporations for joint comparison analysis between BoP and NA
- General Government sector and non profit institutions for coverage analysis
- Corporations for company size classification



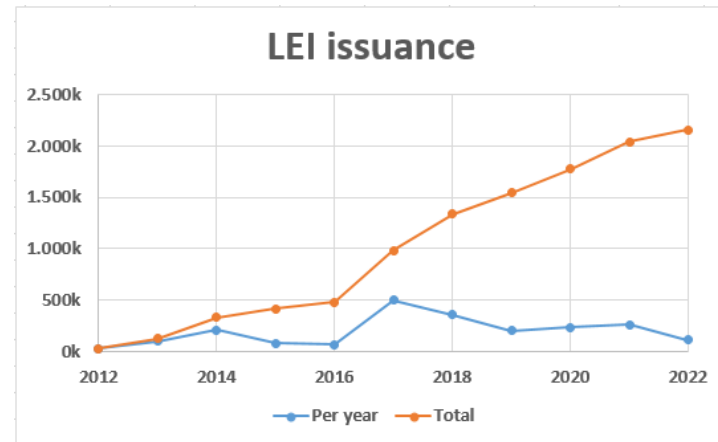
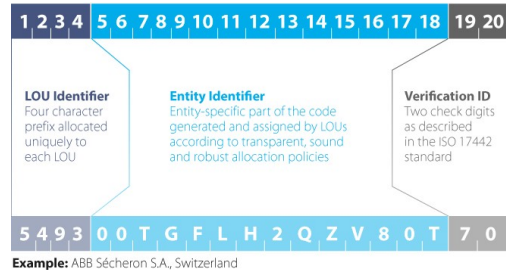
- Monetary intermediation and other financial service units (special purpose vehicles, funds and similar financial entities) for NACE 64 classification
- ESA2010 holding companies and head offices for NACE 64.2/70.1 classification
- Active and passive sharings by Foreign direct investment (FDI) for DQM on EGs and Relationships



**One important area of mutual cooperation refers to LEI**

# What is LEI

- A high-quality identifier that is accessible **free of charge** as a **broad public good** for the benefit of the users of the public and private sector.
- **Unique** 20 digit alphanumeric code based on ISO 17442 standard assigned to legal entities



**Over 2.1 mln LEI assigned till now!!**

# LEI integration process



☐ LEI is used as additional ID in Entities Register since 2015 and data is updated on a daily basis

☐ Sources: GLEIF, BoI securities Register, Anacredit reporting agents, RIAD

☐ Data is matched via Fiscal code/BoI fund code for resident entities and via national ID/RIAD code for foreign entities



☐ LEI identifier is requested (conditional var.) by EGR

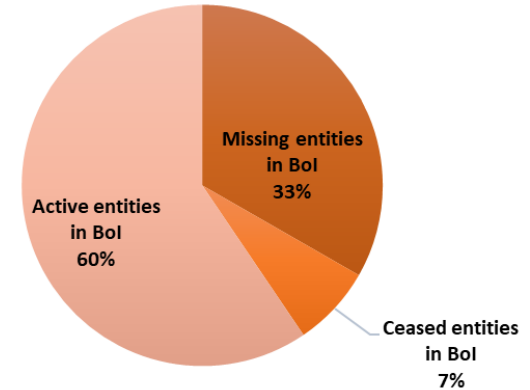
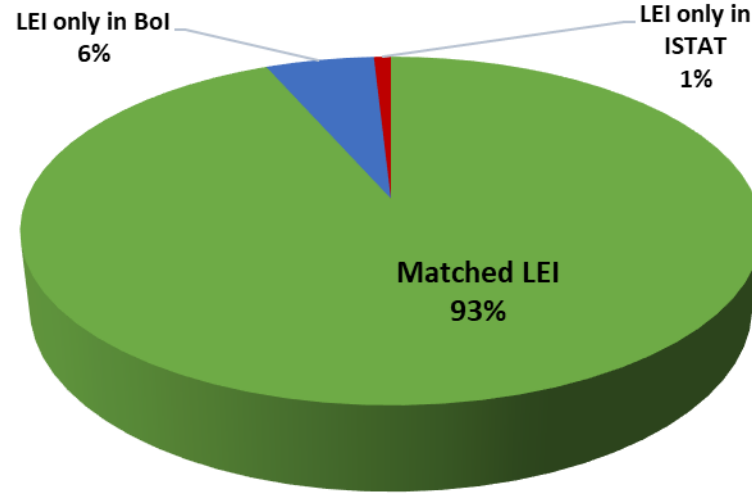
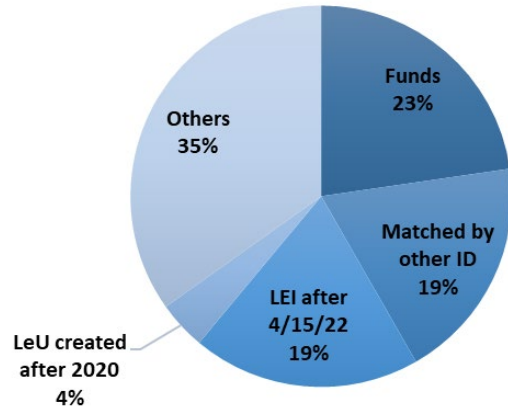
☐ Recently, LEI was introduced as an additional identifier in the national SBR by integrating GLEIF 'who is who' Level 1 data

☐ the XML file downloaded from GLEIF around mid April to map and feed LEI in DB-ASIA:

- Italian units: the SBR is integrated with the LEI
- Foreign units: the SBR is integrated with the LEI joining via LEID present in EGR (sent by each Country)



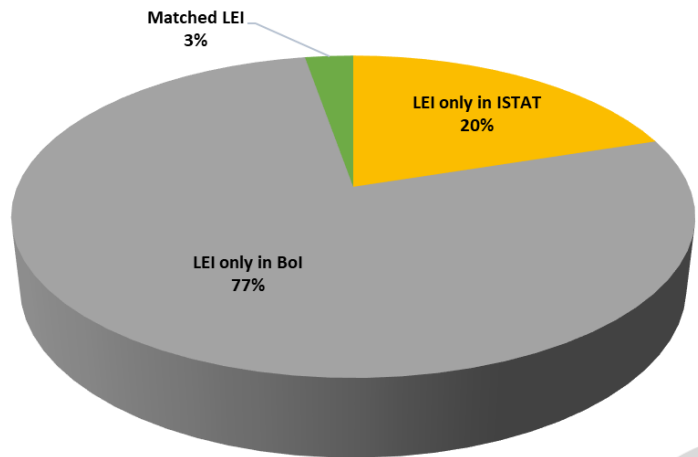
## LEI results: Italian entities



### LEI

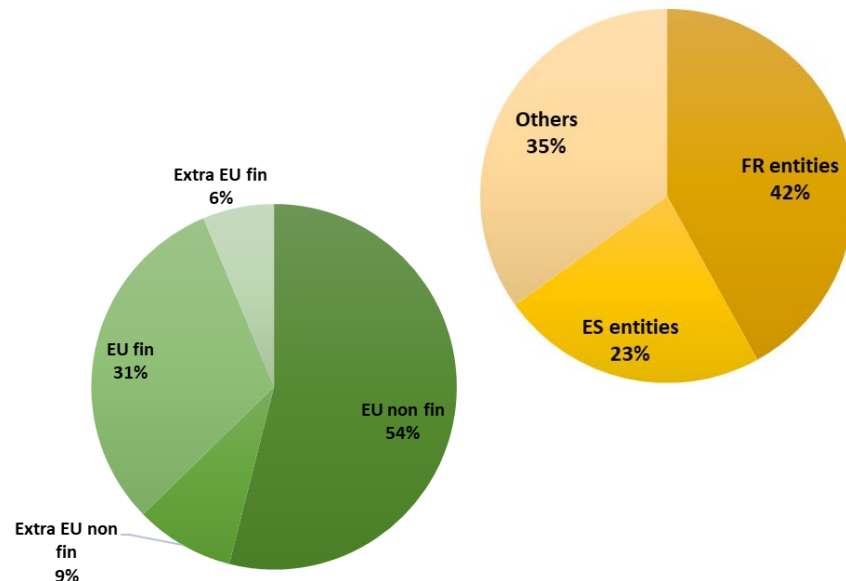
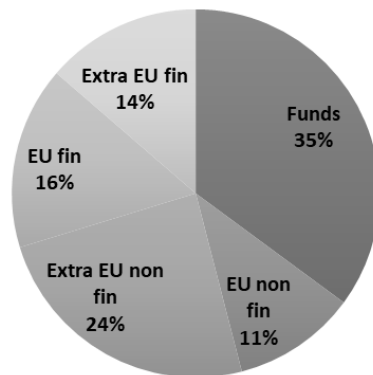
Bol	140.4 k
Istat	133.6 k
Matched	132.3 k

# LEI results: Foreign entities



## LEI

Bol	62.6 k
Istat	16.2 k
Matched	2.2 k



## LEI Coverage

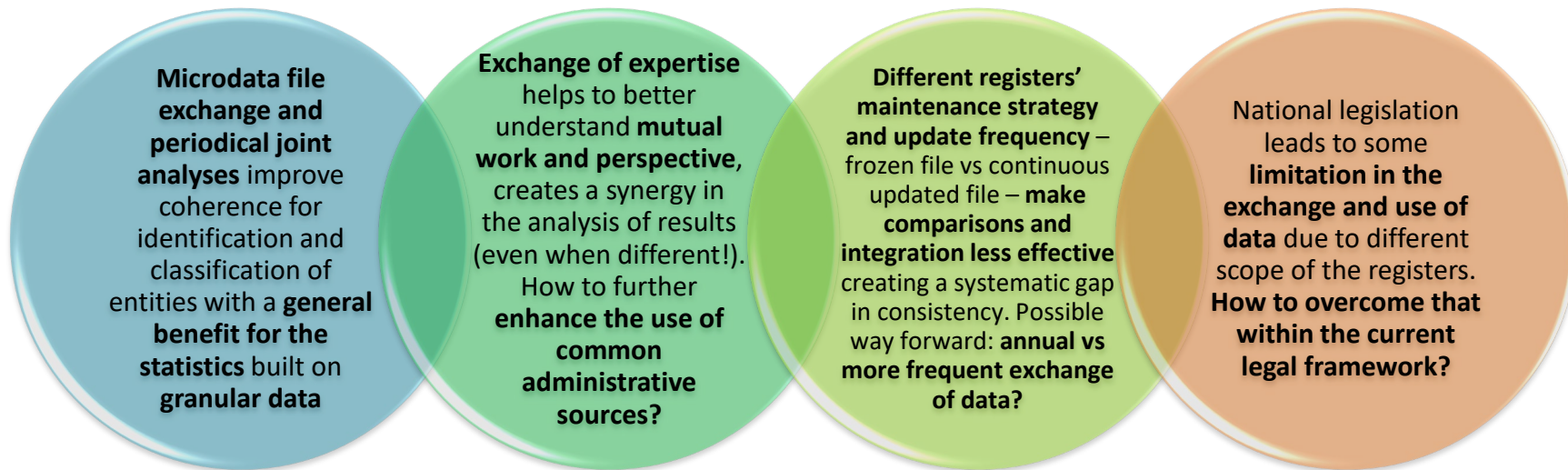
Bol	20.0%
Istat	4.6%

## First LEI analysis in the two registers

LEI is a powerful key for **linking** proprietary entities registers, **easing** comparison among reference and structure variables and **improving** consistency among the SBR of Istat and the Entities register of Bol, which are used for compiling European statistics, especially with reference to foreign entities

- **Resident units:** very similar coverage between registers. Residual differences mainly due to structural reasons (different legal entities scope, frozen file and annual European provision policy) or technical issues to be solved soon.
- **Foreign units:** analysis ongoing, but data are scarcely overlapping even considering different scope and excluding extra-EU entities.

## Lesson learnt and future challenges



### Future steps

- ✓ Share the methodology and the processes to exploit available sources
- ✓ Evaluate the setting up of an automated process for infra-annual cross-checking
- ✓ Review the scope of CSI definition

