

## **FRENCH NSI AND NCB BENEFIT FROM A WIDE RANGE BUSINESS REGISTER DATA SHARING**

Collaboration Project on the exchange of business register data for statistical purposes between NSI and NCB: the French experience

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# 1. A smooth circulation of information between Insee and BdF

1.1 A wide range cooperation

1.2 A national unique identifier (# SIREN) and the LEI

1.3 A data sharing agreement

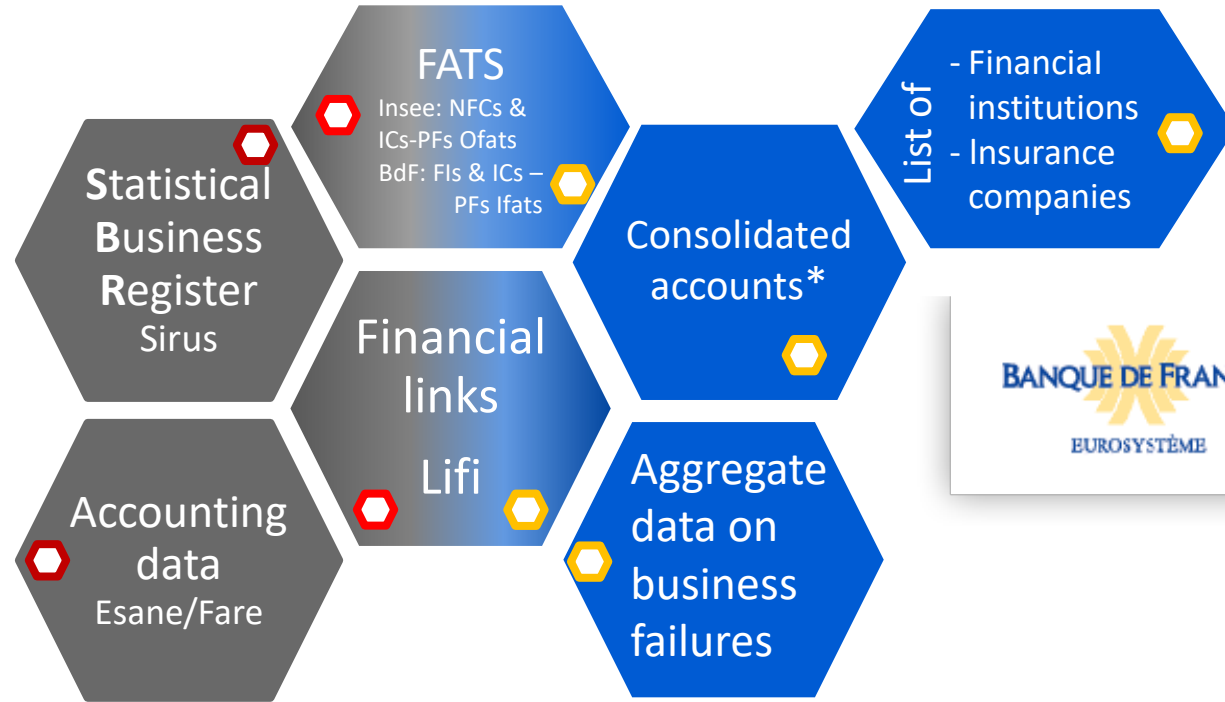
1.4 A secured dedicated data pipeline between BdF and Insee

1.5 A common access to microdata for researchers

## 2. Use cases

## 3. Limitations and next steps

# 1.1 A WIDE RANGE COOPERATION BETWEEN FR NSI AND NCB



\* of companies whose head office is located in France

- FATS: Foreign affiliates trade statistics
- FI: Financial institutions
- IC: Insurance companies
- NFC: Non-financial corporations
- PF: Pension funds

# 1.2 A NATIONAL UNIQUE IDENTIFIER + LEI

## National identifier: SIREN

- A French nine-digit code, covering all the resident enterprises and administrations
- Derived from an administrative business register which is monitored by Insee
- Used by all public sector units and by the enterprises themselves

## Legal Entity Identifier (LEI)

- Compulsory by European law for Financial institutions (2014) & Insurance companies (ICs) (2016)  
Volunteer basis for non-financial corporations (NFCs) other than ICs; required for issuing or buying financial instruments in financial markets
- Key figures:
  - ✓ 100,000 LEI in France
  - ✓ 13 Local Operating Units (LOUs)  
Insee: 85% of the LEIs asked by French resident enterprises (4% of LEI in the world)
- No need for an extension of the LEI obligation to all NFCs:
  - ✓ The current SIREN provides a comprehensive framework
  - ✓ LEI production induces a cost (for general government and/or enterprises)

# 1.3 A DATA SHARING AGREEMENT

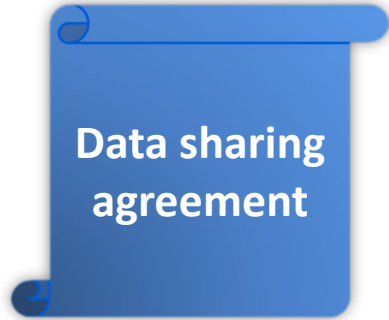
## Monetary and Financial Code Statutes of the Banque de France Article L. 141-6

IV. - The Banque de France, the French National Institute for Statistics and Economic Research and ministerial statistics departments shall exchange, in accordance with applicable legal provisions, the data necessary for the accomplishment of their respective tasks. The terms and conditions of these exchanges shall be set out in **agreements.**

=> Data sharing agreement signed by Insee and BdF covering:

- Statistical Business Register (SBR): Sirius
- Accounting data: Esane/Fare
- Individual financial links between legal units together with descriptive data
- Consolidated accounts of companies whose head office is located in France
- Foreign affiliates trade statistics (FATS)

# A SAFE AND FLEXIBLE LEGAL FRAMEWORK



Data sharing agreement

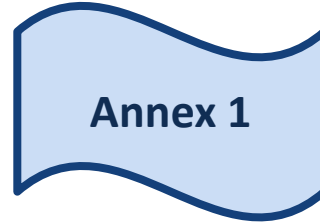
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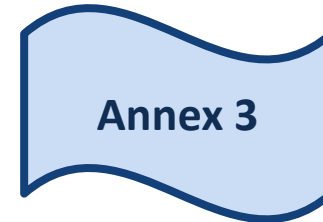
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Implementation protocol

= annexes revised when needed



[...]



[...]



# REVISION OF THE AGREEMENT TO ALIGN WITH THE FRAMEWORK REGULATION INTEGRATING BUSINESS STATISTICS (EBS)

## REGULATION (EU) 2019/2152 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 27 November 2019

on European business statistics, repealing 10 legal  
acts in the field of business statistics

=> Foreign affiliates trade statistics (FATS) used to compile  
International trade in statistics (ITS) by mode of supply

## 1.4 A SECURED DEDICATED DATA PIPELINE BETWEEN BDF AND INSEE

### A new solution went to life in 2016

- Simplification
- Unification for all data exchanged
- Fitted for large & encrypted files
- Integrated in IT systems of both institutions (NCB & NSI)



### Main characteristics

- Automated file transfer between BdF and Insee
- Files manually provided and picked up in BdF interface
- Automatic email sent to the internal user(s) of the service
- SVA OpenPGP for encryption
- State interminister private network (contingency system, supervision)



## 1.5 A COMMON ACCESS TO MICRODATA FOR RESEARCHERS

### NCB – NSI Bridging NSI CASD and BdF Open data room

- CASD= Center for secured access to data (Centre d'accès sécurisé aux données)  
Microdata of Insee, Fiscal administration, Customs administration, Ministerial statistical units
- BDF joined CASD 4<sup>th</sup> April 2022
- A dedicated secure infrastructure called “secure bubbles” infrastructure
- Allows linking microdata produced by NSI and NCB  
=> improvement for researchers scope of individual data (including Academic research)

1. A smooth circulation of information between Insee and BdF

## 2. Use cases

### 2.1 Within NSI

- Financial links for the French register of groups then the Eurogroup register
- Business failures for short-term business demography

### 2.2 Within NCB

- SBR for **Credit by size of enterprise (1993 UE definition)**
- SBR and accounting data for **Survey sampling for the balance of payments**
- Financial links for **Identification of decision centers for FDIs**
- SBR for **Financial accounts compilation**

### 2.3 Examples of other NCB/NSI cooperations for statistics

- **Households Finance and Consumption survey (HFCS)**
- **Travel data compiled in the BoP and in the NA**

## 3. Limits and next steps

## 2.1 FINANCIAL LINKS FOR THE FRENCH REGISTER OF GROUPS THEN THE EUROGROUP REGISTER

**NCB → NSI**

**datasets on individual financial links between legal units**

- one of the main sources for the French group register LIFI, part of the NSBR along with tax data, commercial data (ORBIS-BvD), business reports
- datasets on individual financial links between legal units
- provided on a monthly basis, integrated in the LIFI information system according to the production process schedule
- Main purpose: defining the delineation of corporate groups
- Main uses:
  - national profiling → breakdown in statistical unit enterprises → structural business statistics
  - → Eurogroup register (EGR), for multinational enterprise groups operating in France

## BUSINESS FAILURES FOR SHORT-TERM BUSINESS DEMOGRAPHY

**NCB → NSI**                      **aggregated data on business failures**

- **NSI → Eurostat:** in the frame of business demography, quarterly data on registrations and bankruptcies of companies {T + 40 days)
  - Registrations ← national statistical business register
  - Bankruptcies ← NCB data on business failures
- **NCB → NSI:** aggregated data, with the breakdown by activity required by Eurostat
  - Each quarter : provided before national publication in order to prepare the transmission to Eurostat
  - Other months: simple download from NCB website for dissemination of time series on the NSI website, with the monthly NSI release of time series and publication on business births.
- **New:** as from July 2022, **monthly** business demography data collection
  - Same information channel between NCB and NSI than for the current quarterly data, but on a monthly basis ► reinforced cooperation

## 2.2 ACCOUNTING DATA -> STATISTICS REFERRING TO ENTERPRISE (1993 UE DEFINITION)

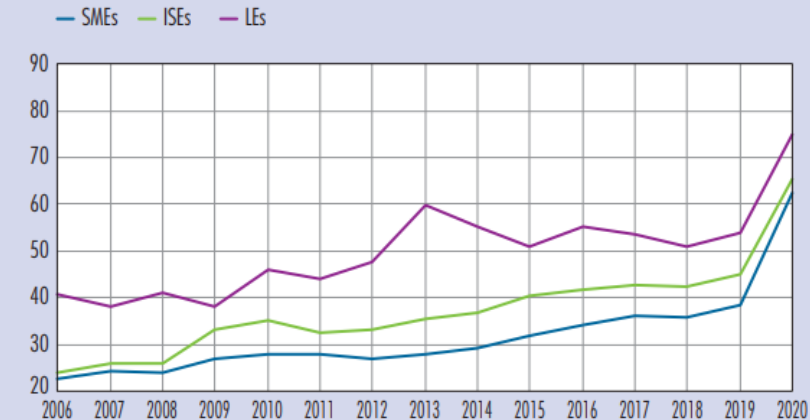
### NSI → NCB

BdF uses the SBR to analyse companies situation and their bank credit, by industry and by size of enterprise, in line with the European definition of an enterprise (economic unit vs. legal unit)

### Outstanding amounts of loans to resident enterprises by type of credit and by sector

#### Corporate cash balances

(in days of turnover)



Source: Banque de France, FIBEN database, October 2021.

Note: SME: small and medium-sized enterprise; ISE: intermediate-sized enterprise; LE: large enterprise.

(Outstanding amounts in EUR Bn, annual growth rate in %) <sup>W</sup>

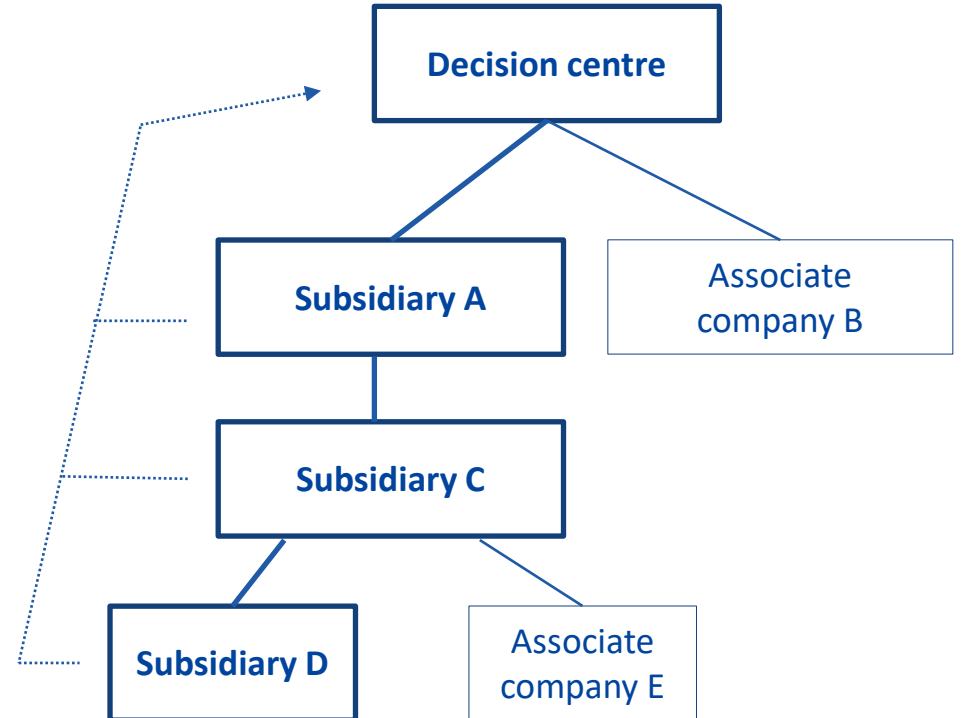
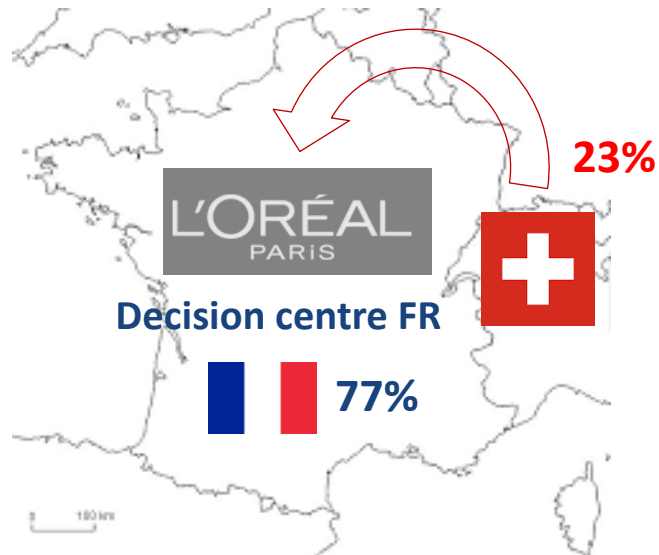
	Drawn credits			Drawn and undrawn credits		
	Outstanding amounts	Growth rates		Outstanding amounts	Growth rates	
		Feb. 22 / Feb. 21	Feb. 22 / Feb. 20		Feb. 22 / Feb. 21	Feb. 22 / Feb. 20
Agriculture, forestry and fishing (AZ)	59.9	3.3	9.8	68.4	3.6	9.4
Industry (BE)	153.5	0.4	13.5	248.3	-4.0	11.1
- inc. Manufacturing (C)	116.6	-3.4	12.3	185.5	-6.3	9.9
Construction (FZ)	69.4	1.2	22.1	108.8	5.9	22.8
Wholesale and retail trade; repair of motor vehicles and motorcycles (G)	167.5	-5.8	10.8	234.1	-6.1	8.7
Transportation and storage (H)	57.5	-0.4	14.8	73.9	0.0	14.5
Accommodation and food service activities (I)	46.1	-1.7	34.6	50.6	-1.5	28.7
Information and communication (JZ)	27.7	-1.8	24.9	52.0	-0.2	9.1
Real estate activities (LZ)	488.3	7.2	13.7	538.4	7.9	13.7
Advisory and Business support activities (MN)	82.6	2.4	28.9	101.9	1.7	25.4
Education, human health and social work services, Arts, entertainment and recreation, Other service activities (P to S)	57.9	-1.5	17.6	67.0	-1.9	19.5
Holdings	23.6	22.8	38.5	27.9	22.6	39.8
<b>Total</b>	<b>1,233.9</b>	<b>2.5</b>	<b>16.0</b>	<b>1,571.2</b>	<b>1.8</b>	<b>14.5</b>

# FINANCIAL LINKS -> FOREIGN DIRECT INVESTMENT (FDI) STATISTICS

**NSI** → **NCB** Financial links used for analysing chains of ownership:

- Decision centres
- Ultimate Investing Country (UIC) and Ultimate Host Country (UHC)
- FDI revenues

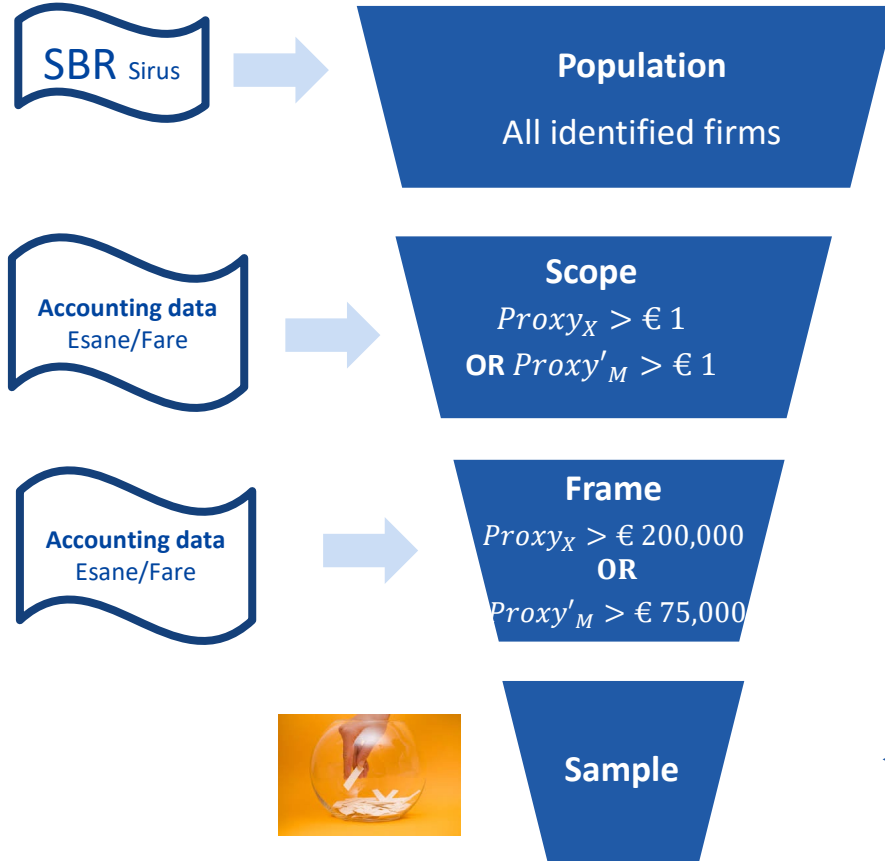
Use case:  
for Nestlé,  
CH is UIC for  
23%



## SBR AND ACCOUNTING DATA

-> SURVEY SAMPLING FOR THE BALANCE OF PAYMENTS

NSI  
→ NCB



## ACCOUNTING DATA -> FINANCIAL ACCOUNTS COMPILATION

NSI → NCB

Use of non-financial corporations balance sheets (Fare) to compile their financial accounts

Example of the survey on international trade in services

## 2.3 EXAMPLES OF OTHER NCB/NSI COOPERATION FOR STATISTICS

### **NSI → NCB** Raw data used to compile tables sent HFCS data to the ECB

- NSI Collecting teams -> running of the Households Finance and Consumption Survey (HFCS)
- Specific cooperation agreement signed by Insee and BdF, including cost-sharing

### **NCB ↔ NSI** Cooperation via surveys to compile travel data for the BOP

- Information for Travel data compiled in the BoP and in the NA

Insee → BdF : Travel imports

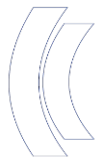
BdF → Insee : Travel exports



1. A smooth circulation of information between Insee and BdF
2. Use cases

### **3. Limitations and next steps**

- 3.1 The need to rank comparable sources
- 3.2 Towards an internal BDF registers hub



# THANK YOU FOR YOUR ATTENTION



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