# Monetary Financial Institutions Balance Sheet Database - Data Manual

**Extraction Date - June 2024** 

# **BPLIM**

# 2024-06-20

The Monetary Financial Institutions (MFIs) Balance Sheet Database reports detailed information on the assets and liabilities of the monetary financial institutions (MFIs) operating in Portugal. The database covers the period from 1997 to 2023 and is updated annually.

# **Table of contents**

General Information	2
Geographical Coverage	2
Population	3
Methodology	3
Description of Files	3
Auxiliary Files	12
Legislation	12
Useful Tools	13
Citation of this Dataset	14

## **General Information**

**Dataset Designation in English**: Monetary Financial Institutions Balance Sheet Database (BBS)

**Dataset Designation in Portuguese**: Balanço das instituições financeiras monetárias (BBS)

Data Type: longitudinal data

Unit of Analysis: instrument-counterparty

Frequency: monthly

Start Date: September, 1997

Most recent year: December, 2023

Reference date: month-end

**Data Organization**: data is organized for assets and liabilities separately. All data files are available in Stata format.

Version of the Data: the data made available by BPLIM corresponds to a data freeze at a certain time of the year. Therefore, all files contain information as reported at the extraction date. The most recent update of the data occurred in June 2024.

Languages Available: variables labels are available in Portuguese and in English. <sup>1</sup>

**Data Access**: data made available to external researchers under certain conditions and has to be aggregated at the firm level with the external researchers proposing the aggregation method.<sup>2</sup>

Digital Object Identifier: 10.17900/BBS.Jun2024.V1

# Geographical Coverage

The MFIs Balance Sheet Database includes the assets and liabilities of all monetary financial institutions (MFIs) operating in mainland Portugal and autonomous regions - Azores and Madeira.

<sup>&</sup>lt;sup>1</sup>To see the labels in Portuguese type the following command line in Stata: 'label language pt'.

<sup>&</sup>lt;sup>2</sup>Conditions for data access for external researchers are detailed in the *Guide for Researchers Using Banco de Portugal Microdata Research Laboratory (BPLIM) Data*.

# **Population**

The MFIs Balance Sheet Database collects the balance sheet data for all monetary financial institutions (MFIs) that were in operation in Portugal between September 1997 and December 2023.

**Comment**: Non-monetary financial agents are not covered in the database. In case an institution stops to be classified as MFI, data reporting will be discontinued. Some MFIs in Portugal have experienced acquisitions and/or mergers, which induced asset/liability flows from one institution to another.

# Methodology

The MFIs Balance Sheet Database has undergone the first major revision in December, 2014 which lead to the reclassification of financial institutions and counterparties.<sup>3</sup>. Due to this revision, there are some breaks in the series. The revision also adds an extra variable that indicates institution type.

Furthermore, in March 2021 a new data Warehouse was implemented at the Bank of Portugal, which expands the reporting of the balance sheet information for the Monetary Financial Institutions (MFIs) after December 2014 within the scope of Instruction No. 14/2021. The reporting was extended to a wider range of financial instruments and reflects mark-to-market values, taking into account changes in prices and exchange rates. The previous Instruction No. 25/2014 was revoked with effect from January 31, 202

To make variables compatible over time, we have harmonized the data based on the correspondence table illustrated in the "Description of Variables" section.

To preserve confidentiality, MFIs are anonymized through unique identifiers and the instrument values are perturbed for external researchers.<sup>4</sup>

# **Description of Files**

The MFIs Balance Sheet Database is organized separately for assets and liabilities in the bank balance sheet (BBS) files. Each row corresponds to an instrument-counterparty pair in a given month.

The data files are organized with the following nomenclature:

$$BBS\_METH\_BNK\_xxxx\_yyyy\_V01.dta$$

<sup>&</sup>lt;sup>3</sup>Please refer to the variable spreadsheet for details.

<sup>&</sup>lt;sup>4</sup>See the \*Guide for Researchers Using Banco de Portugal Microdata Research Laboratory (BPLIM) Daerse.

where xxxx denotes the data range (eg: SEP1997DEC2023), yyyy denotes the type of balance (ASSET for asset instruments; LIAB for liability instrument), and METH denotes the method used to prepare the data ("A" for Anonymized and "P" for Perturbed).

Identification of MFIs will be anonymized in the data. Additionally, for external researchers the data values are perturbed.

We also provide a harmonized data set to facilitate the comparison between the two reporting systems, i.e. before and after December, 2014.

#### Bank identifier

Anonymized identification number for MFI that enables tracking the MFI over time. BPLIM provides an anonymized version of the MFIs identifier which is denoted by bina.

Abbreviation	Definition
$\overline{bina}$	Anonymized bank identification number

Availability: Sep. 1997 - Dec. 2023

#### Reference date

The reference month of the data

Abbreviation	Definition
date	Reference month of the data

Availability: Sep. 1997 - Dec. 2023

Instrument code

Classification of the financial instrument

The classification of financial instruments was revised in December, 2014. As a result, a new categorization was applied thereafter. Below is the correspondence table for the instrument codes between the two reporting systems (aligned based on the previous reporting system).

Abbreviation	Definition	
$instrument\_asset$ $instrument\_liab$	Financial instruments: Financial instruments:	

Availability: Sep. 1997 - Dec. 2023

**Table 1** - Correspondence Table for Financial Instruments

Panel A: Asset side (instrument\_asset)

Before December 2014		December 2014 onwards	
$\overline{\text{Code}}$	Designation	Code	Designation
10	Banknotes and coins	10	Banknotes and coins
20	Credit and equivalent - up to 1 year	20	Credit and equivalent - up to 1 year
30	Credit and equivalent - from 1 year to 5 years	30	Credit and equivalent - from 1 year to 2 years
30	Credit and equivalent - from 1 year to 5 years	40	Credit and equivalent - from 2 year to 5 years
40	Credit and equivalent - more than $5$ years	50	Credit and equivalent - more than 5 years
50	Securities other than equity - up to 1 year	60	Debt securities - up to 1 year
60	Securities other than equity - from 1 year to 2 years	70	Debt securities - from 1 year to 2 years
70	Securities other than equity - more than 2 years	80	Debt securities - more than 2 years
80	Equity securities	90	Traded shares
80	Equity securities	100	Untraded shares
80	Equity securities	110	Other equities
80	Equity securities	120	Units
100	Properties, furnitures, and equipments	130	Properties, furnitures, and equipments
110	Miscellaneous assets	140	Miscellaneous assets
90	Units (included in equity securities)	120	Units

**Comment**: Before December 2014, the financial instrument "Units" (coded 90) is also included in the financial instrument "Equity securities" (coded 80).

When calculating the aggregates, to avoid double counting the value for "Unit" should be dropped.

Panel B: Liability side (instrument\_liab)

Before December 2014		December 2014 onwards	
Code	Designation	Code	Designation
130	Demand deposits (excluding sight deposits)	380	Demand deposits (excluding sight deposits)
140	Deposits redeemable at a notice of up to 90 days (excluding sight deposits)	390	Deposits redeemable at a notice of up to 90 days (excluding sight deposits)
150	Deposits redeemable at a notice of more than 90 days (including sight deposits)	400	Deposits redeemable at a notice of more than 90 days (including sight deposits)
170	Deposits and equivalent (excluding demand deposits, deposits redeemable at notice, and trading liabilities) - up to 1 year	420	Deposits and equivalent (excluding demand deposits, deposits redeemable at notice, and trading liabilities) - up to 1 year
180	Deposits and equivalent (excluding demand deposits, deposits redeemable at notice, and trading liabilities) - from 1 to 2 years	430	Deposits and equivalent (excluding demand deposits, deposits redeemable at notice, and trading liabilities) - from 1 to 2 years

Before December 2014		December 2014 onwards	
190	Deposits and equivalent (excluding demand deposits, deposits redeemable at notice, and trading liabilities) - more than 2 years	440	Deposits and equivalent (excluding demand deposits, deposits redeemable at notice, and trading liabilities) - more than 2 years
200	Trading liabilities	450	Trading liabilities - up to 1 year
200	Trading liabilities	460	Trading liabilities - more than 1 year
210	Securities other than capital - up to $1$ year	470	Debt securities issued - up to 1 year
220	Securities other than capital - from $1$ to $2$ years	480	Debt securities issued - from 1 to 2 years
230	Securities other than capital - from $2$ years	490	Debt securities issued - more than 2 years
240	Capital and reserves	500	Capital and reserves
260	Miscellaneous liabilities	520	Miscellaneous Liabilities

## Counterparty code

Classification of counterparty

Abbreviation	Definition
counterparty_asset	Classification of counterparty: asset side
counterparty_liab	Classification of counterparty: liability side

Availability: Sep. 1997 - Dec. 2022

The classification of counterparties was also revised in December, 2014. The correspondence table for the counterparty codes between the two reporting systems (aligned based on the previous reporting system) is:

 ${\bf Table} \ {\bf 2} \ {\bf -} \ {\bf Correspondence} \ {\bf Table} \ {\bf for} \ {\bf Counterparties}$ 

Panel A: Asset side (counterparty\_asset)

Before December 2014		December 2014 onwards	
Code	Designation	Code	Designation
10	Monetary financial institutions	11	Central banks
10	Monetary financial institutions	12	Money market funds
10	Monetary financial institutions	13	Deposit institutions, excluding central banks
20	Other financial intermediaries and financial auxiliaries	18	Other financial intermediaries, financial auxiliaries, and captive financial institutions and money lenders
20	Other financial intermediaries and financial auxiliaries	22	Investment fund, excluding money market funds
30	Insurance corporations and pension funds	31	Insurance corporations
30	Insurance corporations and pension funds	32	Pension funds
40	Central government	40	Central government
50	Regional government	50	Regional government
60	Local government	60	Local government
70	Social security	70	Social security
80	Non-financial institutions	80	Non-financial institutions
90	Individuals	91	Family
90	Individuals	92	Non-profit institutions serving households
120	Irrelevant sector	120	Irrelevant sector

Before	
December	December 2014
2014	onwards

Panel B: Liability side (  $counterparty\_liab$  )

Before			
December		December 2014	
2014		onwards	
Code	Designation	Code	Designation
10	Central banks	10	Central banks
20	Institutions not subject to	21	Money market
	minimum reserves, namely the money market funds		funds
30	Institutions subject to	22	Deposit
	minimum reserves		institutions,
	111111111111111111111111111111111111111		excluding central
			banks
40	Other financial intermediaries	39	Other financial
	and financial auxiliaries		intermediaries,
			financial
			auxiliaries, and
			captive financial
			institutions and
			money lenders
40	Other financial intermediaries	43	Investment fund,
10	and financial auxiliaries	10	excluding money
	and manetar administres		market funds
50	Insurance corporations and	51	Insurance
	pension funds	V1	corporations
50	Insurance corporations and	52	Pension funds
	pension funds	~ <b>-</b>	1 01101011 141140
60	Central government	60	Central
	0 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0		government
70	Regional government	70	Regional
• •	1008101101 80 (0111111011)	•	government
80	Local government	80	Local government
90	Social security	90	Social security
100	Non-financial institutions	100	Non-financial
			institutions
110	Individuals	111	Family
	11101.1010000		- wiiiij

Before December 2014		December 20 onwards	014
110	Individuals	112	Non-profit institutions serving households
120	Irrelevant sector	120	Irrelevant sector

## Country

Country of origin or region of the counterparty

Abbreviation	Definition
$\overline{country}$	Country of origin <sup>5</sup>

Availability: Sep. 1997 - Dec. 2023

Table 3 - Counterparty Countries (country)

$\overline{\text{Code}}$	Designation
UM-PT	Monetary Union countries excluding Portugal
TP-UM	Countries outside Monetary Union
EUB	European Central Bank
AUT	Austria
BEL	Belgium
CYP	Cyprus
DEU	Germany
ESP	Spain
EST	Estonia
FIN	Finland
FRA	France
GRC	Greece
IRL	Ireland
ITA	Italy

<sup>&</sup>lt;sup>5</sup>This variable has experienced a reclassification in the current extraction, causing a break in the data after December 2014. The affected instruments include Properties, furnitures, and equipments; Miscellaneous assets; Debt securities issued - up to 1 year; Debt securities issued - from 1 to 2 years; Debt securities issued - more than 2 years; Capital and reserves; Miscellaneous Liabilities. Furthermore, the following components: Portugal, Monetary Union countries excluding Portugal (UM-PT) and Countries outside Monetary Union (PT-UM). are no longer available in the data after December, 2014, but can be reconstructed summing up the values of the related countries.

$\overline{\text{Code}}$	Designation
LTU	Lithuania
LUX	Luxembourg
LVA	Latvia
MLT	Malta
NLD	Netherlands
PRT	Portugal
SVK	Slovakia
SVN	Slovenia

**Comment**: One should take caution not to double count the Monetary Union (UM) countries when calculating the aggregates.

## Institution type

Type of institution. This variable is only available from December, 2014 onwards.

Abbreviation	Definition
$\overline{inst\_type}$	Type of institution

Availability: Dec. 2014 - Dec. 2023

**Table 4** – Institution type (*inst\_type*)

Code	Designation
1	Banks
2	Saving banks
3	Money market fund
4	Central agricultural credit bank and mutual
	agricultural credit banks
5	Branch of Credit Institution Headquartered in the EU
6	Branch of Credit Institution Headquartered in Third
	Countries
7	Branch of Affiliates of Financial Institutions
	headquartered in the EU

## Value

Value outstanding of a financial instrument, expressed in millions of euros.

Abbreviation	Definition
value	Amount (in million euros)

Availability: Sep. 1997 - Dec. 2023

# **Auxiliary Files**

For a description of each variable in each dataset (name, unit of measurement, data and storage type, format, year of first and last observation), an account of the changes occurred over time, summary statistics for each dataset and a codebook for each dataset, please check the following auxiliary files:

Data File	Metafiles	Variables description	Summary Statistics <sup>6</sup>
Bank Balance	meta_bbs	var_bbs.html	stat_bbs
Sheet (BBS)			
DEC2014DEC2023			
ASSET			
Bank Balance	$meta\_bbs$	$var\_bbs.html$	$\operatorname{stat\_bbs}$
Sheet (BBS)			
DEC2014DEC2023			
LIAB			
Bank Balance	$meta\_bbs$	$var\_bbs.html$	$\mathrm{stat\_bbs}$
Sheet (BBS)			
SEP1997DEC2023			
ASSET			
Bank Balance	$meta\_bbs$	$var\_bbs.html$	$\mathrm{stat}\_\mathrm{bbs}$
Sheet (BBS)			
SEP1997DEC2023			
LIAB			

# Legislation

Below is a list of relevant legislations:

1. Instrução no. 43/97

<sup>&</sup>lt;sup>6</sup>Please note that the summary statistics are run based on the perturbed data.

```
2. Instrução no. 19/2002
```

- 3. Instrução no. 12/2010
- 4. Instrução no. 20/2012
- 5. Instrução no. 25/2014
- 6. Instrução no. 14/2021

## **Useful Tools**

We provide an ado file written by BPLIM staff for researchers to implement the matching of the Monetary Financial Institutions (MFIs) Balance Sheet Database with the other BPLIM databases that report bank-related information. ## linkbank ank

## Description

linkbank is a Stata user-written command to help create linking ids for financial institutions operating in Portugal for the purpose of merging various BPLIM databases, such as the Central Credit Responsibility (CRC) database, the Bank Balance Sheet (BBS) and Historical Series of the Portuguese Banking Sector (SLB)

## Syntax

linkbank bankid timeid, options

where bankid is BPLIM's anonymized bank identifier and timeid identifies the time variable.

### options

base specifies the database to link with (BBS or SLB)

method specifies the linking method (i.e. assign ids of the parent banks; take into account credit transfers due to Mergers and Acquisitions)

replace replace the bank id with the new linking bank id that users can use to merge CRC with BBS/SLB

generate creates a variable with the new linking bank id that users can use to merge CRC with BBS/SLB

keepindicator indicates the situations in which the new linking bank id is assigned

add includes further information on the institutions (i.e. the banking group to which a financial institution belongs and the type of affiliation; banking events fies the time variable (monthly).

## Citation of this Dataset

Banco de Portugal Microdata Research Laboratory (BPLIM)(2024): Bank Balance Sheet Monthly Data. Extraction: June 2024. Version:V1. BANCO DE PORTUGAL. Dataset. https://doi.org/10.17900/BBS.Jun2024.V1

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