UPGRADING FINANCIAL ACCOUNTS WITH CENTRAL BALANCE SHEET DATA – WHAT’S IN IT FOR CENTRAL BANKS’ POLICY?

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Upgrading Financial Accounts with Central Balance Sheet Data
What’s in it for central banks’ policy?

NATIONAL ACCOUNTS
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FINANCIAL ACCOUNTS

Simplified statistical representation of the FINANCING STRUCTURE and NET FINANCIAL ASSETS of the VARIOUS INSTITUTIONAL SECTORS.

Allow an OVERVIEW of the uses of financial surpluses and the way deficits are financed.

MULTIDISCIPLINARY TEAM

“Estrutura de Missão das Contas Financeiras”
Financial accounts data include both the financial transactions and stocks of the **DIFFERENT INSTITUTIONAL SECTORS**

<table>
<thead>
<tr>
<th>NFC</th>
<th>FC</th>
<th>GG</th>
<th>HH + NPISH</th>
<th>RoW</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
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</table>

**CURRENCY AND DEPOSITS**

**SECURITIES**

**LOAN**

**SHARES AND OTHER EQUITY**

**INSURANCE TECHNICAL RESERVES**

**OTHER ACCOUNTS**
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**COUNTERPART INFORMATION**

**“WHOM-TO-WHOM” MATRICES**
FULL “WHOM-TO-WHOM” MATRICES FOR EACH FINANCIAL INSTRUMENT
WE ARE ABLE TO BUILD FLOW OF FUNDS

Show the interlinkages between institutional sectors:

- Diameter proportional to net lending/borrowing of each sector
- Green/red if positive/negative
- Represent net flow
- Width proportional to magnitude of inter-sectoral relation

DEMANDS FOR COMPLETE INFORMATION FOR ALL INSTITUTIONAL SECTORS,
FINANCIAL INSTRUMENTS AND COUNTERPARTS.
THE BENEFITS OF COLLECTING MICRO DATA ARE BEING GLOBALLY RECOGNISED.

The information required to compile integrated sectoral accounts and flow of funds schemes can be easier derived from granular administrative datasets.

**SECURITIES STATISTICS INTEGRATED SYSTEM**

A security-by-security and investor-by-investor database of both securities holdings and issues.

**CENTRAL CREDIT REGISTER**

Contains granular information on e.g. credit exposures.

**CENTRAL BALANCE-SHEET DATABASE**

An economic and financial database based on annual and quarterly accounting data on individual Portuguese Non-financial corporations.
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Central Balance Sheet Database: sources of information

Quarterly data

- ITENF
- Companies accounting data on individual basis

Annual data

- YES
- Literally meaning “simplifies corporate information”
EXTRAPOLATION PROCEDURE FOR QUARTERLY DATA

Extrapolated data are used as data for total NFC, which is undoubtedly a great plus to the production of NFC statistics and also to the elaboration of different and flexible statistical products – inter alia, quarterly national financial accounts.
CONCILIATION BETWEEN ANNUAL AND QUARTERLY DATA - BENCHMARKING

This conciliation method makes possible to adjust the quarterly time-series obtained by extrapolating ITENF to the annual time-series obtained from IES, which are considered as benchmarks.

In order to carry out this adjustment, a set of constraints to be fulfilled by final data are defined:

AGGREGATION CONSTRAINTS

Ensure that the quarterly time-series is consistent with the annual time-series.

CONTEMPORANEOUS CONSTRAINTS OF ACCOUNTING BALANCE

Ensures that an accounting balance condition between the balance sheet and the profit and loss account is met in each period.

The final result for each aggregate consists in a range of quarterly time series based on a balance sheet and a profit and loss account without imbalances, which combine the annual value obtained in IES with the intra-annual dynamics resulting from the extrapolated ITENF.
NATIONAL FINANCIAL ACCOUNTS COMPILATION USING CBSD DATA

OWN DATA SOURCES

IEs: annual data, quarterly figures estimated based primarily on the ITENF

SSIS: Securities Statistics Information System

COUNTERPART INFORMATION

Financial sector, General Government and Rest of the World

All information identified by these 3 sectors as having its counterpart in the NFC sector is taken directly for the compilation of the NFCs account
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NATIONAL FINANCIAL ACCOUNTS COMPILATION USING CBSD DATA

CBSD - IES

- Unquoted shares and other equity
- Loans between NFCs and with HHs
- Trade credits
- Insurance technical reserves
- Other accounts receivable/payable

Counterpart sector data, relevant for HHs account compilation

SSIS

- Quoted shares
- Securities other than shares
NATIONAL FINANCIAL ACCOUNTS COMPILATION USING CBSD DATA

**NFC account**

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### NATIONAL FINANCIAL ACCOUNTS COMPILATION USING CBSD DATA

#### NFC account

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FINAL REMARKS

• The achievement of Portuguese **fully integrated and consistent financial accounts**, was only made possible due to **the richness of the statistical content of the CBSD** run by the Banco de Portugal.

• This huge potentiality is due to:
  • the relevant data on the population of corporations in Portugal for a relatively long period, as a result of the excellent coverage of IES;
  • the appropriate methodology for the selection of corporations within the scope of the ITENF and the respective extrapolation procedure.

• Alone or combined with other information, **CBSD data also proved to be a great value for pursuing the statistical central bank statutory obligations**. The use of this information for the compilation of the NFC and HH sectors’ financial accounts is an example of the statistical possibilities of such census information.
Thank you for your attention!

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