

Seventh ECB Conference on Statistics

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Session1: Data needs of the Single Supervisory Mechanism

Enhancing the synergies between the SSM and statistical reporting



- 1. Synergies between the SSM data needs and statistical reporting: overview of the work done so far at European level
- 2. Enhancing the synergies experience at Banco de Portugal
 - 2.1. Management of micro data bases
 - 2.2. Benefits from combining several sources of microdata: an example
 - 2.3. Analytical benefit from combining several sources of microdata
 - 2.4. Addressing SSM needs of forward looking information
 - 2.5 Additional data that might be useful for SSM
- 3. Concluding remarks



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SSM data system advantages

- Explore synergies with the statistical reporting:
 - Data compilers will benefit from the existing infra-structure
 - Reduce reporting burden for reporting entities

Amendments to legal framework concerning transmission and use of confidential statistical information

- Such amendments support the role of:
 - European Central Bank
 - National competent authorities responsible for prudential supervision in the Member States
 - Member States and European Union authorities responsible for the financial system stability

Working Groups for data requirements harmonization

- Working Group on Supervisory Statistics
- Task Force on European Reporting Framework
- ESCB Task Force on Credit Registers
- Task Force on Analytical Credit Datasets



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Banco de Portugal: development of a data system based on micro-data

- Reduce the burden imposed on reporting institutions
- Allow for a wider and flexible range of detailed statistical information for supervisory purposes

Micro databases managed by Banco de Portugal

- **Central Credit Registers**: granular information on credit on a borrower-by-borrower basis and in some cases including details which provide loan-by-loan information
- Central Balance Sheet Database: accounting and financial information covering (almost) exhaustively the population of non-financial corporations
- Securities Statistics Integrated System database: security-by-security and investor-by-investor system of both securities holdings and issues
- Micro database on interest rate statistics: individual data on new bank loans and interest rates (above €50 million until end-2014; all operations after that).



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Creating an in-house credit asessment system (ICAS)

- Main driver in the Eurosystem: reduce the dependence on external sources to evaluate the collateral potentially pledged in monetary policy operations
- Advantages go beyond monetary policy:
 - Banking supervision: ICAS may be used as a benchmark for credit notations obtained by financial institutions with their internal notation system
 - Supervision and financial stability: input for stress-testing exercises
 - Financial stability: identification of sources of risk and vulnerability in the NFC sector.



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Allows exploring the heterogeneity hidden behind aggregate numbers

Banco de Portugal's projects based on micro data are illustrative examples of how combining micro databases on the real and financial sides of the economy will be inescapable going forward

- Analysis of high levels of indebtedness in the private and the underlying interlinkages with the financial sector
- Household data at the micro level also allow a better understanding about how real and financial assets and liabilities are distributed across families
- Combining financial and non-financial granular data has been useful in assessing banks' credit
 quality
- Critical in assessing the systemic nature of a given financial institution



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The Funding and Capital Plans (FCPs) proved to be a powerful supervisory tool, both at micro and macro levels

Funding and Capital Plans:

- ✓ Focus on the solvency, liquidity and profitability of the institutions
- ✓ Include detailed historical and prospective accounting and prudential information (overall strategies pursued in a 3-4 year time horizon)
- ✓ Are built over harmonized macro scenarios, guidelines and restrictions, which allow for full consistency among institutions
- ✓ Deeper understanding of the general strategies of the institutions and of the overall adjusting path of the banking sector
- ✓ Check the consistency of the expected evolution of key aggregates (credit, deposits) with the macro scenario
- ✓ Identification of outliers with deviant behaviors from the sector average, which could have systemic implications



Ī	Γahle 1	I - I	Iominal	GDP	arowth	rates	

Baselin	Baseline scenario			Adverse s			
2012	2013	2014	2015	2012	2013	2014	2015

Table 2: Macroeconomic Scenario

End of period Discount rate for actuarial

Notes: all values in percent

interpolation and the 10-ye

Global equity prices, end o

Real estate prices, end of

Non-residential real es

Residential real estate

Baseline Scenario

Angola Brazil Cape Verde China France Greece Mozambique Poland Rom ania South Africa Spain United Kingdo United States

Portugal

Notes: In percer scenario, values deviation from the The figures prese

External Demand (assumption)				
Short-term interest rate (3-month money market rate)				
EUR/USD Exchange rate (a)				
Oil price (in euros)				
Gross Domestic Product				

Private Consumption Public Consumption Gross Fixed Capital Formation Domestic Demand (including inventories) Exports of Goods and Services Overall Demand Imports of Goods and Services Contrib. of dom. demand (excl. in vent.) to real GDP grow

Contribution of inventories to real GDP growth Contribution of net exports to real GDP growth Consumer Prices (HICP) Savings Rate

Employment (private sector) Unemployment rate Compensation per employee (private sector) Current and Capital Account

Goods and Services Account

and a anual rate of change; abv a annual average value. (a) The assumption for the long-term interest rate corresponds to an estimate (a) An increase corresponds to an appreciation of the euro.

	В	aseline scenario				Adverse scenari			
	2012	2013	2014	2015	2012	2013	2014		
ECB reference rate									
Average	Т	ahla	1 _ D	robabi	litios d	of def	ault		
End of period	'	able	4-1	TODADI	iiiios (Ji deli	aunt		
Money market interest rat									
Average					Baseline Scenari				
End of period				2012	2013	2014	201		
10-yr bond yields - German	Loans to Non Financial Corporations								
Average	Corporate - all sectors except commercial re	al estate	2	6,3	5,6	3,4	3,3		
End of period	Dimension 1			4.7	4.1	2.5	2,3		
Treasury Bills - Portugal	Dimension 2			6.6	5.9	3.6	3,4		
Average	Dimension 3			7.0	6.3	3,9	3,7		
End of period	Retail			.,0	0,5	2,2	-,.		
10-yr bond yields - Portug:	SME			7.8	7.4	5.1	4.8		
Average	SINE			7,0	7,4	٥,1	4,0		
End of period	Commercial real estate - pure								
Money market interest rat	Corporate								
Average	Retail-SME								
End of period				מאם	nro	vid	<u>.</u>		
10-yr bond yields - US	Commercial real estate - construction			BdP	μιυ	viu	-22		
Average End of period	Corporate								
Money market interest rat	Retail-SME			ad	vers	se s	cei		
Average	Loans to Households								
End of period			366	cum	ntic	nc	an/		
10-yr bond yields - Japan	Retail - Housing purposes		ass	sum	μιιυ	1113	анч		
Average	Retail - Other purposes					~_			
Unerale				- th	Δ E/	$-$ D $_{c}$	VO		

Adverse Scenario

Table 3 – Financial variables and real estate prices

Notes: In percentage, Estimations by Banco information on bank-specific probabilities of 5/2007, which mimics the CRD. Dimension exceeding 50 million gurgs; Dimension 2 refe 50 million euros; Dimension 3 refers to corp euros. This decomposition may not be feasible aggregate line "Corporate".

the FCP exercise to be groups

Adverse scenario

2012 2013 2014 2015

Adverse Scenario

2013

4.9

6,9

7.3

8,3

2014

4,8

3.5

5,1

5.4

6,6

2012

4.7

6,6

7.0

7,8

2015

3,7

2.6

3,9

4.2

5,3

2.3

3,4

3.7

BdP provides the baseline/ adverse scenarios, key assumptions and guidelines for completed by the banking



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Banco de Portugal's specific inspection exercises have been a tool to deepen the knowledge of specific issues of institutions and the financial system, to assess potential weaknesses and develop a risk mitigation programme accordingly

Programme

Special Inspections Programme

On-Site Inspections Programme

Transversal Exercise for Credit Portfolio Impairment Review and Business plan analysis of relevant clients in the banking system

Special Assessment Programme

Asset Quality Review

Objectives

- Ensure that the capital requirements for credit risk were calculated appropriately
- Analyse the risk exposure to specific sectors (construction and real estate), and assess the adequacy of the impairment levels set by the banks for these sectors
- Ensuring that the impairment levels were prudent and calculated according to the best practices

- Ensure that the capital requirements for credit risk were calculated appropriately
- Assess the policies and procedures used by each of the participant institutions to handle distressed credit operations, covering the entire distressed credit life cycle



The use of granular data during these transversal onsite inspections also generates value for supervision functions as it contributes to the identification of several type of issues, such as:

- Exposures that need a revaluation using alternative methods as the discounted cash flow method
- Specific debtors whose credits' revaluation is needed on a more frequent basis
- Outdated valuations of credit collaterals
- Sectors of activity where credit risk constitutes a higher concern (v.g. CRE, pharmaceutical industry)
- The need to improve Credit Institutions' internal impairment models



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- Integrating data collection and information systems generates large benefits: economies of scale for data compilers and a lower burden for the reporting entities.
- A wider spectrum of micro data generates benefits for analytical studies, allowing a better understanding and monitoring of the financial system and providing the supervisor a closer and more comprehensive perspective of the financial sector and of its relations with the other sectors in the economy.
- Integrating core supervisory data, granular credit data and ad-hoc data sets will generate value not only for the direct supervision but also for the horizontal functions of the SSM, including sector-wide reviews and identification of trends and emerging risks.
- To maximize the usefulness of all the new information that will be available for the SSM, further work should focus on its analysis and integration, to ensure that the higher reporting costs are reflected in a sounder framework for banking supervision, fostering financial stability at the EU level.



Thank you

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