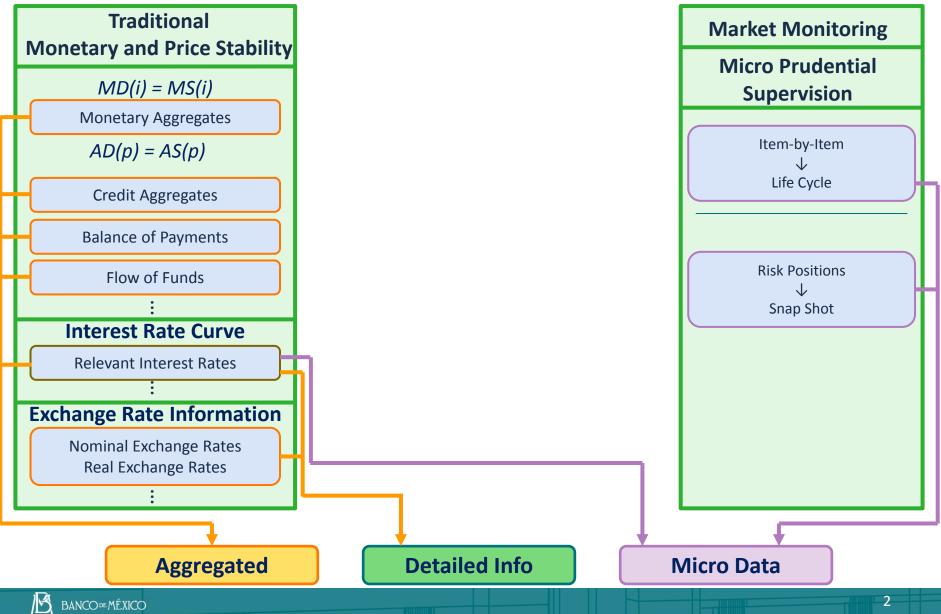
Uses and classification of financial information: A Map of Financial Information 1ra. Reunión del Foro de Información Financiera. <u>CEMLA</u>

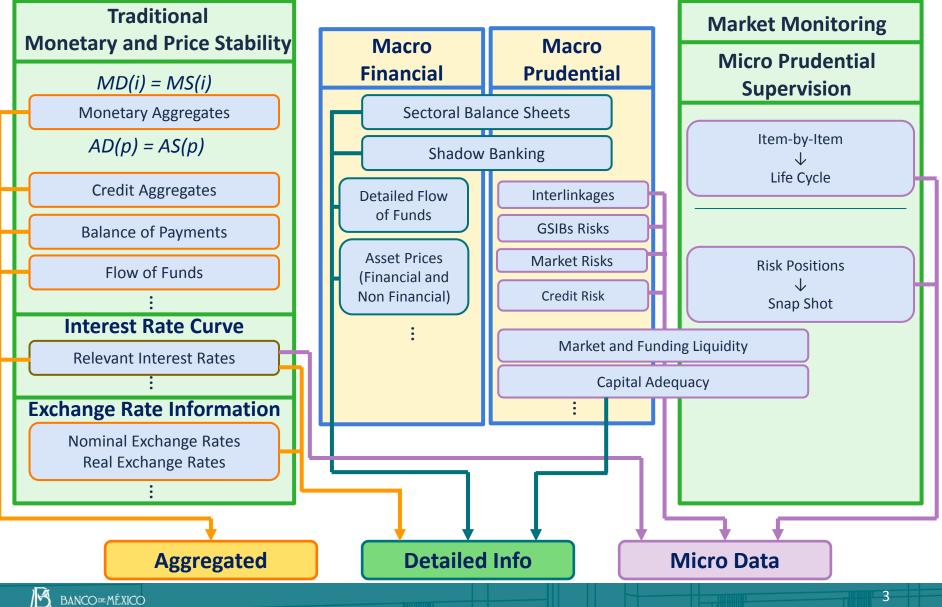


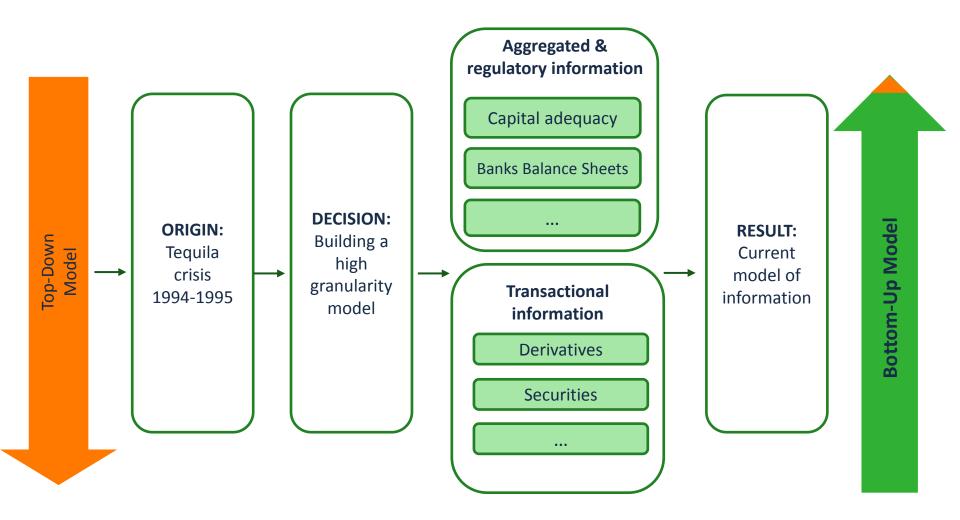
June 2015

Financial Information in Central Banks



Financial Information in Central Banks





Financial Information Model

Collected by BANCO DE MEXICO, directly from the institutions

Commercial banks, development banks, brokerage houses, exchange houses, other regulated financial entities.

Other financial authorities (CNBV, CNSF, CONSAR), price vendors, securities depository, credit card switches, exchanges, etc.

	Microdata (Transactional or very detailed information)							Aggregated (Granularity according to the type of information)				
Daily	Foreign Exchange Ops.	FX Claims and Liabilities	Derivatives	Securities (Repo / Buy – Sell / Security Lending	Interbank Loans	Time Deposits	Credit & debit card transactions (switches)	Pension and Investment funds' investment portfolio	Financial Products and Services			
									Ratings, prices, indices, interest rates, economic and financial variables and risk factors			
Monthly	Commercial loans		Mortgages		Equities holdings	Credit bureau			Demand deposits	Capital adequacy	Regulated intermediaries' financial statements	
									FX Cash Transactions	Liquidity		
Bi-monthly	Consumer Ioans (credit card, auto, personal, wage, etc.)											
Quaterly								Retail payment systems				

- Richness of micro-data without a clear vision of an integrated model resulted in a case-by-case response to users' requests.
- In addition, in recent years the extraordinary increase in new data requirements has forced a revision of the model since it has become evident:
 - Duplicated information (mainly transformations),
 - Outdated classification guidelines for data dissemination,
 - Unexplored high potential of relevant new information from available data,
 - Difficulty to fill some data gaps, because of rigidity and heterogeneity in the design and structure of information,
 - Partial adoption of international standards,
 - Opportunity to increase standardization (counterparties, financial products, transactions, etc.).

When lost in the dark Or lost in the sky Always look for a...

 A way to tackle some of these needs is to improve the structure and classification of information with a sort of a...



The Information Model of Banco de México













Agenda

Information Map

• A simple example of use

• Final remarks



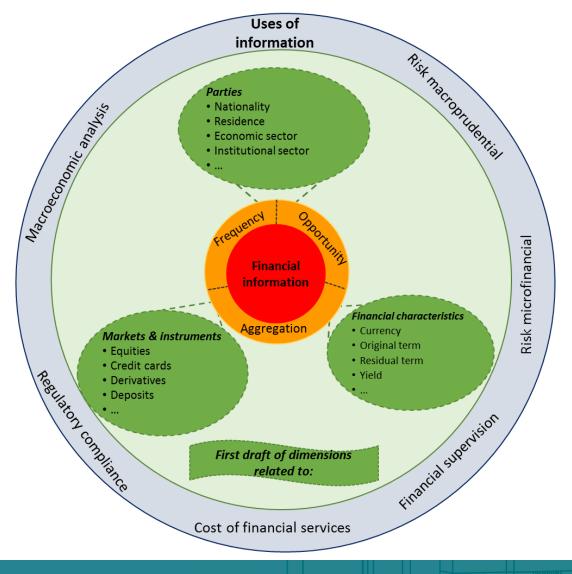
"A representation usually on a flat surface of the whole or a part of an area" (Webster Dictionary).

"A symbolic depiction highlighting relationships between elements of some space" (Wikipedia).

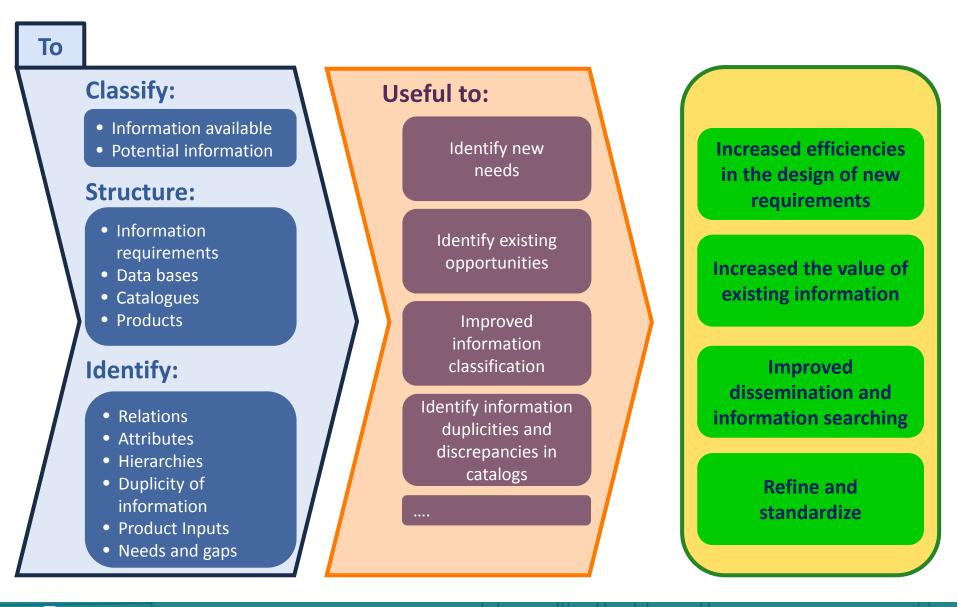
- Building a map needs to identify the relevant "dimensions" of information, those dimensions would define its "axes" (scope).
- Using data warehousing definitions, a *dimension* is: i) a collection of reference information about a measurable event; or, ii) a structure that categorizes facts and measures in order to enable users to answer business questions.

- Dimensions are data sets of the same class composed of individual, non-overlapping data elements. They have as primary functions:
 - Provide filtering,
 - Grouping, and
 - Labelling.
- In our case, relevant measurable events are financial transactions. The different elements and characteristics of financial transactions are candidates for dimensions, for example:
 - Markets,
 - Instruments,
 - Characteristics of the parties,
 - Financial characteristics.
- Other kind of relevant dimensions are:
 - Uses of information, and
 - Data attributes.

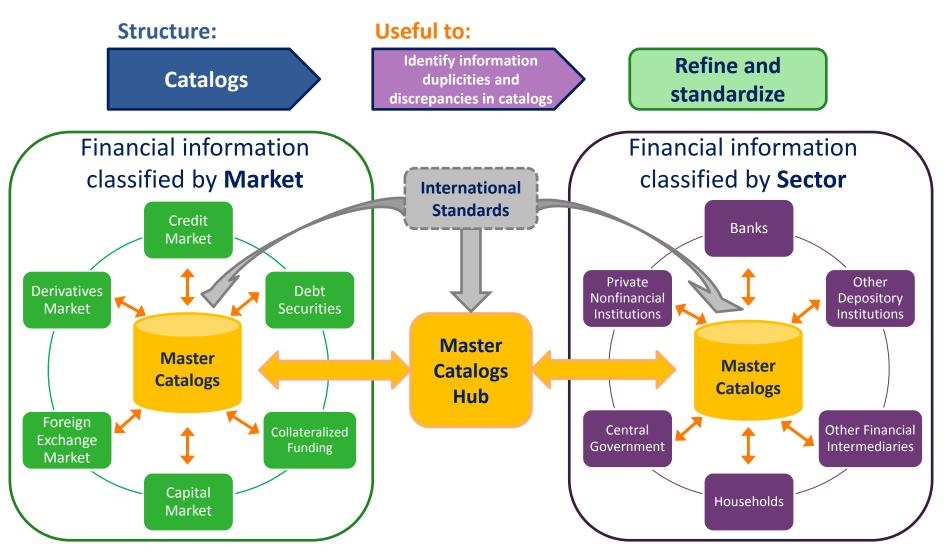
Simple Representation of an Information Map: Conceptual Elements



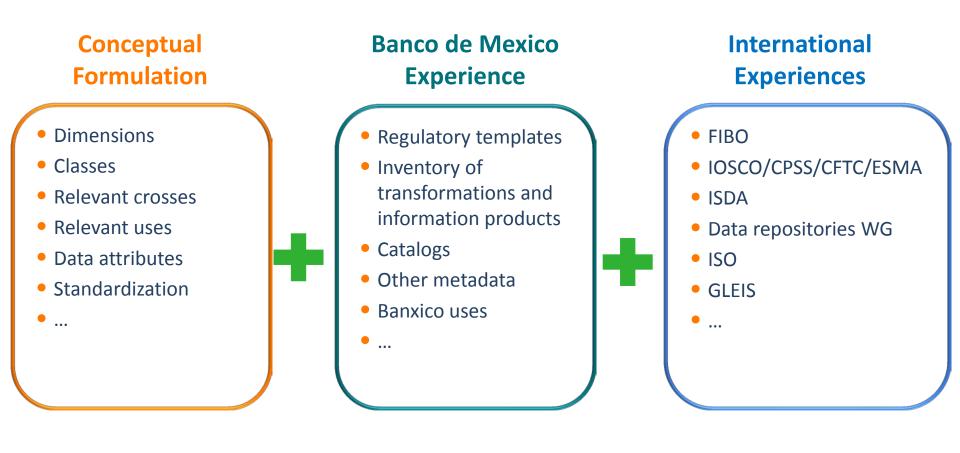




Improvement in the management of catalogues...

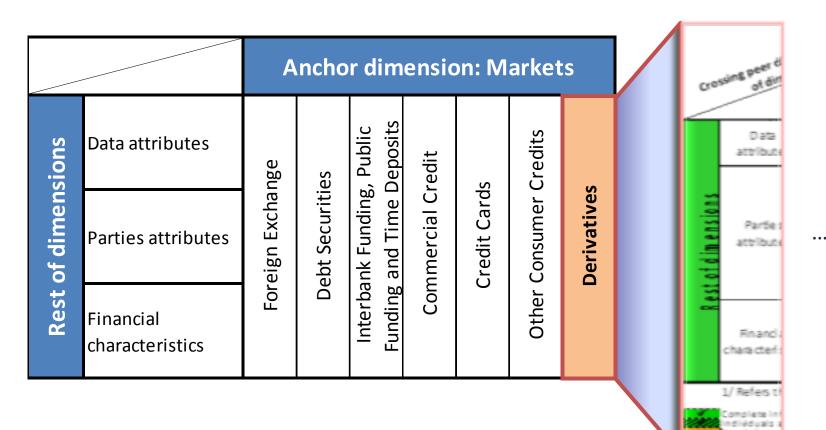


A simple example of use



A simple example of use

Cross dimensions: Market



A simple example of use

Data gaps and cross dimensions: Derivatives Market

	rion vs			Anchor dimension: Derivatives market								
Crossing anchor dimension vs rest of dimensions			Negotiated in:									
			Exchange	e markets	отс							
			Futures	Swaps	Forwards	Options	Swaps	Structured Notes ^{1/}	Credit Derivatives			
Rest of dimensions	Data attributes	Micro data	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark				
		Frecuency (D=Daily basis)	D	D	D	D	D	D				
		Opportunity (D=Daily)	D	D	D	D	D	D				
		Entity identifier										
		Legal identity	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	 ✓ 				
	Doution	Nationality	Not applicable		§	§	§	§				
	Parties attributes	Residence			✓	\checkmark	\checkmark	✓				
		Economic sector (NAICS)			§	§	§	§				
		Institutional sector			\checkmark	\checkmark	\checkmark	\checkmark				
		Size										
	Financial	Contract validity	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark				
		Original and maturity term	✓	✓	\checkmark	\checkmark	✓	✓				
		Guaranty or collateral	§	§	§	§	§	§				
	characteristics	Plus/minus MtM (Yield)	✓	✓	\checkmark	\checkmark	\checkmark	✓				
		Currency	✓	✓	\checkmark	✓	✓	✓				

1/ Refers the embedded derivative in the structurated note.

Complete information

Individuals and individuals with business activities are not identified New information requirement of Banco de Mexico's derivatives trade repository

New Information requirement of Banco de Mexico's derivatives trade repository

Micro data under the trading scheme for Guarantees and Collateral in Derivatives market Missing information

Final Remarks

- An Information Map is defined at different levels.
- The depth of the Information Map depends on the desired uses and the characteristics of available information.
- Our Information Map is work in progress.
- Feedback is welcome.



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