Future challenges for monetary statistics in a changing environment:

Rethinking Monetary Analysis and Statistics

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Lessons from the Recent Crisis





MP and FS surveillance mutually reinforcing



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MP and FS surveillance mutually reinforcing





Monetary analysis should take account of financial imbalances and balance sheet vulnerabilities

- Close link between credit and asset prices; MP has a role in avoiding build up of asset bubbles
- State of B/S provide information on vulnerabilities and affect effectiveness of macroeconomic policies



Source: Internal estimates; data from Haver Analytics

Balance sheet assessment of various crisis, 1990-2011

Country Balance Sheet	Finland (1991)	Sweden (1991)	Mexico (1994)	Argentina (1995)	Japan (1995)	Thailand (1997)	Korea (1997)	Indonesia (1997)	Malaysia (1997)	Russia (1998)	Brazil (1999)	Turkey (2000)	Argentina (2001)	Uruguay (2002)	US (2007)	Iceland (2008)	Ireland (2009)	Greece (2011)
Household																		
Firms																		
Financial Inst.																		
Central Bank																		
Government																		

Source of vulnerability

Constraint on recovery

Source: Internal estimates; list of crisis from "IMF-FSB Early Warning Exercise" (September 2010)



Collection of data should serve both MP and FS surveillance

• Broadly similar data needs, but should distinguish the context of use for MP and FS





Balance sheet and cash flow information remains a blind spot, especially among EMEs

Survey of published balance sheet information, Advanced vs EMEs



Survey of published sectoral balance sheet information of 7 advanced economies and 10 emerging economies Source: Internal estimates, National Authorities (Central Bank and Office of National Statistics), IMF, OECD. Date: Data as at 15 March 2012.



1 Difficult to anticipate buildup of risk and propagation of shocks due to information gaps



2 Several regulatory blind spots were discovered during the crisis



Dec-06 Jun-07 Dec-07 Jun-08 Dec-08

¹ Gross market values are calculated as the sum of the total gross positive market value of contracts and absolute value of gross negative market value of contracts with non-reporting counterparties

Source: Remarks by Timothy Geithner at The Economic Club of New York, New York City, 2008

system

banking system



2 Difficult to anticipate extent of systemic risk due to information gaps

• Central banks and authorities now have expanded mandates, but not expanded data sets

Information gaps	Complications		Useful information				
Coverage	 Inability to accurately detect excessive speculation 		 Wider coverage on OTC derivative, structured products, leverage ratios, and off-balance sheet items 				
	 Incomplete data sets that do not enable the correct assessment of individual 		 Exposure of unregulated institutions like hedge funds and corporations 				
	risk, and to separate from systemic risk		 Coverage on size and structure of unregulated shadow banking 				
Granularity	 Inability to differentiate investments for hedging, for real activity, or for speculation 		Deeper categorisation into investment purpose				
	 Unclear picture of inter-institutional exposures 		Deeper coverage of non-resident presence in domestic markets, preducte time of investment duration				
	Unclear picture of probability of cascading failure	· 	products, type of investment, duration and maturity profile.				
Standardisation	 Different regions have different levels of coverage and granularity in terms of domestic market information 		 Have a standard format in reporting non-resident holdings, off-balance sheet items, and purpose of investments 				



3 Greater interconnectedness resulted in large spill-over from the global financial crisis

- Credit stress in the US banking system also affected EMEs through deleveraging
- Co-movement in equity market across regions during the crisis



Note: The TED spread measures the difference between 3-month LIBOR and 3month T-bill interest rate and is used as an indicator of credit stress in the US banking system

Market movements (Jan '08 vs. Oct '08)						
	Main stock market indices (% chg)					
US	▼	-30				
UK	▼	-26				
Brazil	▼	-37				
China		-61				
India	▼	-45				
Indonesia	▼	-52				
Malaysia	▼	-38				
Mexico		-29				
Thailand	▼	-47				

Source: Bloomberg



3 Difficult to anticipate buildup of risk due to information gaps in available cross-border statistics



Are current statistical initiatives enough?

Current Gaps

Monetary & Financial

- Coverage: B/S of non-depository financial corporations and corporates, incl. SMEs, cash flow incl. outlays, wealth dispersion,
- Granularity: Locality and income group
- Timeliness: More frequent and timely

Financial Market

- Coverage: Unregulated institutions, OTC derivatives, structured products, leverage ratios, off balance sheet
- Granularity: Investment purpose and type, non-resident presence, products, maturity profile

International

- Coverage: Bank flows, risk holders
- Granularity: Non-resident holding of securities, portfolio flow by sector and instrument
- Timeliness: Close to real time

Recent Initiatives

- Coverage: Shadow banking, interconnectedness of financial exposure, expand FSI reporting countries, aggregate leverage and maturity mismatches,
- Granularity: Micro data such as income and credit, flow of funds, and national balance sheet by sector
- Coverage: Securities holdings
- Granularity: Micro data such as securities by securities holdings, risk transfer instruments
- Coverage: Ultimate controlling parties, reporting countries for IIP, CPIS and IBS
- Granularity: Remaining maturity by instrument, ultimate risk/credit transfer instruments, institutional sector of foreign debtors

Sufficient?

The recent initiatives have:

- Strengthened compilation of statistics on unregulated institutions and improve collection of micro data, particularly in debt, income and securities
- Improved understanding of interrelated financial exposure of individual FI and financial system as well as balance sheet of non-FIs
- Facilitated understanding of build up of risks and propagation of shocks

Nevertheless,

- Compilers need to be proactive in identifying and collecting advance indicators due to dynamic and evolving financial environment
- Policy makers should have sound understanding and early analysis of statistics to identify potential risks



Guiding Principles





Recap and summary

The recent crisis has taught us important lessons:

- MP and FS are interlinked
- Financial markets have become more sophisticated
- The world has become more interconnected
- 2 There is pressing need to close information gaps in terms of coverage, granularity, timeliness and standardisation of data
- 3 Current statistical initiatives are moving in the right direction, but there is still need to do more
- Effective data collection must have clarity, transcend limitations, be pre-emptive, have a high degree of integrity and appropriate oversight, and have the user in mind



Areas for Thoughts...

- 1. Data compiled has become more comprehensive, timely, granular and accessible for closer examination and research. Yet, crisis still occurs. To policy-makers and statisticians, what have we missed?
- 2. Are we doing enough in terms of data collection and assessment to be able to detect and prevent the reoccurrence of the last crisis and to avoid the next generation of crisis?
- 3. In this context, how should policy-makers collaborate with statisticians to ensure gaps are closed and data needs are met?
- 4. Are there enough investments in data compilation? Is the cost-benefit equation in collecting additional information too skewed towards cost consciousness, while not giving adequate priority and resources to statistics collection?
- 5. What is the best way to ensure data integrity and consistency? Who should play this governing role?



Thank you

