

Incorporating SIMI identification into Fund Surveillance

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Financial crisis highlighted the need to focus on systemic risk

- **Unprecedented reach of the financial crisis:**
 - The interconnectedness of financial institutions, markets and systems
 - The potential systemic risk posed by instruments, entities and markets that were either weakly regulated or fell outside the regulatory perimeter
- **Genesis of the crisis also highlighted:**
 - Rapid financial innovation that outpaced risk management and supervisory practices
 - Incentives for regulatory arbitrage
 - Failure of market discipline
- **Redesign will require**
 - A macro-prudential orientation for financial stability policy
 - Need to focus on the sources of systemic risk.



National and international initiatives

- **IMF/BIS/FSB Guidelines to identify Systemically Important Institutions, Markets and Instruments**
 - Requested by G20 leaders April 2009
 - Presented to the Finance Ministers and Central Bank Governors November 2009
- **FSB and standard setters**
 - Capital charges for systemic risk (Basel Committee, others)
 - Leveling the regulatory playing field between banking, insurance and securities (Joint Forum)
 - Extending the perimeter of regulation
 - Crisis management frameworks
- **National authorities**
 - Systemic risk monitoring –e.g. Oversight Council, US/UK; Systemic Risk Board, EU.



What is systemic risk?

Definition

- **Negative Externalities**
 - Risks that are not internalized and can significantly impact the financial system
- **Disruption to the flow of financial services**
- **Significant spillovers to the real economy**

What should be covered?

- **Financial institutions**
 - Credit intermediation, savings, risk management, payment services, supporting primary and secondary markets
- **Financial markets and instruments**
 - Funding channels, liquidity, risk management
 - Financial infrastructure for clearing and settlement, trading, pricing
- **All types of financial intermediaries or markets are potentially systemic to some extent.**



Identifying systemically important entities, markets or instruments

- **Systemic importance will be graduated and not binary, reflecting the potential systemic impact**
- **Time varying, conditioned by the economic environment**
 - Under weak economic conditions
 - Higher correlation of losses
 - Higher risks of contagion from otherwise unimportant elements
- **Conditioned by the structure of the financial system**
 - Robustness of other elements to withstand shocks
 - And the frameworks to deal with financial institution and market failures
- **Conditioned by geographical context**
 - National, regional or international
- **High degree of judgment needed founded on a detailed knowledge of the financial system**
 - Cannot be based simply on quantitative indicators
 - Qualitative analysis will require a system wide approach



Assessment Criteria

Primary indicators related to:

Size – the amount of services provided by the component

- Important but even more so when linked with:
 - Interconnectedness;
 - Complex business models and group structures
- Relevant in assessing clusters of institutions that may be individually small but are exposed to common risk factors.

Lack of Substitutability – difficulty of other components to provide the same services

Interconnectedness – financial distress in one institution or market raises the likelihood of distress in others through provision of funds and services, funding or confidence factors.

Contributing Factors:

- **Vulnerabilities:** Leverage, Liquidity and maturity mismatches, complexity
- **Institutional framework that can mitigate systemic risk**
 - Robustness of clearing and settlements and technical infrastructure to withstand failures and shocks
 - Crisis management framework and capacity to resolve failing institutions and transfer their activities quickly to other entities



Quantitative Analysis

- **Use of indicators**
 - Simpler, draws on readily available information;
 - Useful when systemic importance is relatively stable
 - Better at capturing some aspects (size) than others (substitutability, interconnectedness)
 - Less useful in capturing emerging trends or handling unregulated entities
- **Models**
 - Network Analysis**
 - Used to analyze the degree of interconnectedness
 - Effect of spillovers from a shock to one institution on the system can be simulated
 - Draw back is the limited availability of data on bilateral exposures and which can change rapidly
 - Portfolio models of risk based on market data**
 - Used to identify common risk factors or to track how distress in one institution may affect others
 - Advantage -- based on publicly available information, but disadvantage -- market perceptions vary greatly between normal and crisis times
 - Stress testing and scenario analysis**
 - Help to address the state-contingent nature of systemic importance
- **Scoring techniques**
 - Practical way of integrating diverse elements of the assessment



Implications

- Need a framework to conduct system wide assessments and update them on a regular basis:
 - Institutional arrangements;
 - Methodologies
 - Data collection and sharing etc.
- Need to calibrate the nature and scope of regulation to reflect systemic relevance
- Need to adopt a functional approach to regulation rather than one based on type of institutions
- Potential need to extend the perimeter of regulation
- Potential need to update the design and coverage of contingency plans, safety nets and crisis management arrangements



Implications for IMF Surveillance

- Assessments of systemic importance should be at the base of Fund assessments of financial stability:
 - Prioritize assessments to reflect systemic importance (countries, institutions, regulatory frameworks)
 - Assessments should extend beyond those entities traditionally viewed as important
 - Encompass issues of size, complexity, interconnectedness, limited substitutability, as well as vulnerabilities and crisis management.
 - Incorporate regional and international connections and potential cross border spillovers
 - Explore techniques and methodologies that help identify SIMI
- While primary responsibility for SIMI assessments rests with national authorities, the IMF has a role in developing further the assessment guidelines and helping countries through its surveillance and TA to implement them (*Executive Board discussion on the SIMI*) ;
- Collect the data necessary, and engage with SIMIs, to assess spillovers through global financial networks and their implications for macro-financial stability (*Executive Board discussion on modernizing surveillance*)

Practical considerations for Fund Assessments

- Recognition that country approaches vary widely
- No set of best practice methodologies; application of specific methodologies constrained by data;
- But some common elements drawing on the guidelines:
 - Need to have an assessment framework, that would take account of system wide developments and have the authority to collect the necessary information and capacity to assess it;
 - Recognition of the state dependent nature of the assessments, with the capacity to adjust the scope and frequency of assessments;
 - Importance of exercising judgment and avoiding overly prescriptive approaches that could aggravate moral hazard;
 - Need to fill information gaps (bilateral exposures, unregulated entities);
 - Incorporating assessments of the adequacy of crisis management⁺ frameworks to handle failures should they occur;
 - Need for cross border collaboration in assessment of globally or regionally important groups.



Contributions from IMF Surveillance/TA

- **Technical Advice**
 - Institutional arrangements for SIMI assessment using IMF/BIS/FSB Guidelines;
 - Methodologies, information and assessment framework to identify SIMI
 - Range of policy responses to address SIMI as international policies/standards evolve:
 - Systemic risk charges;
 - Expanding the perimeter of regulation;
 - Updating crisis management arrangements
- **Conduct assessments focused on identifying and mitigating systemic risks:**
 - Prioritizing assessments to reflect systemic importance;
 - Designing stress testing modules and scenarios to capture SIMI;
 - Targeting codes and standards assessments and updates on systemic risks.



Contributions from IMF Surveillance/TA

- **Complement national assessments of financial stability with analysis of globally important SIMIs**
 - Collaboration in developing sources of information on global networks;
 - Engaging with SIMIs on global exposures and potential spill over's;
- **Contribute to filling critical information gaps**
 - G20 recommendations on leverage, maturity mismatches etc.
 - On-going identification of information gaps
- **Advance methodological approaches on measuring systemic risk**
 - GFSR analysis of networks etc
- **Training on the development of macro-prudential frameworks a measurement techniques**

