

The Perimeter of Regulation

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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
- **Redesign will require**
 - A macro-prudential orientation for financial stability policy
 - Need to focus on the sources of systemic risk.



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, and 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 entities that fall outside the regulatory perimeter
- **Models**
 - **Network Analysis**
 - Used to analyze the degree of interconnectedness
 - Based on a construction of a matrix of gross inter institution exposures (most often inter-bank exposures)
 - 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**
 - Founded in portfolio risk models extended to groups of institutions;
 - 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



Implications

- Need a framework to conduct 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 extending the perimeter of regulation

- **Different regulatory approaches and solutions**
 - Systemic importance of the unregulated sector will depend, inter alia, on the robustness of the regulated sector to withstand shocks and the capacity to handle failures
 - Potentially systemic entities need not all be regulated in the same way
- **Part of the response is to enhance the regulatory and risk management frameworks of systemic institutions within the regulated sector**
 - Reducing the probability of failures
 - Improving resolution capacity and contingency planning
 - Strengthening core financial infrastructure
- **Part of response is to level the regulatory playing field between banks, insurance and securities, and in treatment of financial groups -- to reduce the incentives and scope for regulatory circumvention and arbitrage**
- **Part will be to extend the perimeter of regulation in a graduated manner depending on the systemic importance of the institutions**
 - Minimum reporting requirements
 - Risk management frameworks scaled to size and complexity
 - Minimum capital and liquidity requirements



Entities that may be affected

- **Complex financial groups that include unregulated entities** (SPVs, unregulated holding companies);
- **Hedge funds**
 - Minimum standards for risk management
 - Reporting requirements
 - Minimum capital requirements
- **Credit risk transfer products** – credit default swaps, financial guarantees
 - Transparency (characteristics of instruments, risk exposures to market participants, valuation methods)
 - Counterparty risk management arrangements
 - Development of market infrastructure
- **Others** – mortgage originators and lenders



Issues in assessing unregulated entities

- **Data Gaps**

- Lack of information on institutions, markets and instruments that fall outside the regulatory perimeter
- Legal authority to collect information may be lacking

- **Approaches**

- Emphasis on a system wide approach and to “knowing the financial system”
- Flow of funds data can help identify emergence of significant sectors, and alert the authorities to the needs of more intensive monitoring;
- Enhancing the granularity of the information collected and provided by the regulated entities on exposures to other sectors and entities
- Providing the systemic risk regulator with the means to obtain and analyze information on unregulated entities;
- Incorporating information from regulatory reporting and supervisory insights into the systemic risk analysis



Some next steps

- **IMF/BIS/FSB have developed guidelines to help assess the systemic importance of institutions, markets and instruments**
 - **High level principles that are flexible enough to apply to a broad range of countries**
 - Establishment of an assessment framework
 - System-wide assessment
 - Information and methodologies
 - Communication/transparency
 - Cross-border cooperation
 - **Follow up work is focused on the practical application of the guidelines**
 - By standard setters to help calibrate regulatory frameworks
 - By the IMF to help support financial sector surveillance
- **National authorities are developing systemic risk regulators and macro-prudential approaches, e.g. proposals for**
 - Financial Services Oversight Board in the US
 - European Systemic Risk Board

