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## Changing Perceptions of Systemic Risk in Financial Regulation

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After the onset of the financial crisis in 2007, official reports noted that the crisis demonstrated failures of pre-crisis financial regulation. Since the crisis, governments, international organizations and regulators have emphasized systemic risk and financial stability as a core concern of financial regulation. A focus on interconnectedness is a critical component of the analysis of financial stability: financial market activity interconnects across territorial borders, across market sectors and through transactional linkages in ways that pre-crisis financial regulation did not effectively address. The institutional arrangements for transnational financial regulation have also changed: the G20 countries committed to a new co-ordination of financial regulation emphasizing financial stability, an enterprise commentators have characterized as a departure from the pre-crisis paradigm of networks of regulators. Public pronouncements by governments, regulators and international organizations suggest that there has been a transnational paradigm shift in financial regulation.

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20 However, there are reasons to doubt that there has, in fact, been a  
21 paradigm shift rather than an evolution of pre-crisis financial regula-  
22 tion. Systemic risk was a concern of regulators before the crisis, and the  
23 new Financial Stability Board is the renamed Financial Stability Forum,  
24 established in 1999 in response to the Asian financial crisis. Progress in  
25 development and implementation of new transnational standards of  
26 financial regulation is slow, and the new standards are developments of,  
27 rather than substitutes for, earlier standards. Financial regulation remains  
28 excessively complex in ways that impede effectiveness and make it hard  
29 for non-experts in financial regulation to understand what the rules are.  
30 Enforcement actions arising out of pre- and post-crisis events suggest that  
31 there has been and remains a systemic problem in the culture of finance.

## 32 **The Financial Crisis and Systemic Risk**

33 Before the global financial crisis, banking regulators and the markets  
34 generally behaved as though risk was under control: there were financial  
35 assets that were risk-free, and regulators and market participants trusted  
36 in risk mitigation techniques with respect to assets that were perceived as  
37 involving risk. Indeed the Joint Forum was arguing already in 2008 that  
38 credit risk transfer ‘allows credit risk to be more easily transferred and  
39 potentially more widely dispersed across the financial market. CRT has  
40 made the market pricing of credit risk more liquid and transparent. But  
41 CRT also poses new risks. A failure to understand and manage some of  
42 [AU2] these risks contributed to the market turmoil of 2007’ (The Joint Forum  
43 2008).

44 The Basel Committee on Banking Supervision (Basel Committee)  
45 developed standards for banking regulation, generally, and capital ade-  
46 quacy, in particular, which aimed to identify and neutralize a range of  
47 risks associated with the business of banking (Goodhart 2011). The  
48 crisis demonstrated that this faith in the control of risk had been mis-  
49 placed. Many commentators noted before the crisis, or have emphasized  
50 subsequently, that the prevailing paradigm in financial regulation was  
51 one of decentring of financial regulation (Black 2012) or, less subtly,  
52 that the markets should regulate themselves with as little governmental

intervention as possible (Dorn 1993). Investigations of the financial crisis identified deregulation broadly (Born 2011; Levine 2012), or excessive faith in mathematical models more narrowly (Financial Services Authority 2009), as an important cause of the crisis, and initial responses to the crisis emphasized the need to bolster regulation: ‘We are determined to enhance our cooperation and work together to restore global growth and achieve needed reforms in the world’s financial systems’ (G20, 15 November 2008 Declaration).

After the onset of the financial crisis, governments acknowledged the need for governmental and even international governmental action (see, again, G20 declaration of 2 April 2009) to promote and maintain confidence in the financial markets. As Claessens et al. (2010: 3) argue, ‘the crisis highlights that the international financial architecture is still far from institutionally matching the closely-integrated financial systems’. Money provided by governments and the International Monetary Fund (IMF) and new rules were employed to support the financial markets (see US Department of the Treasury Office of Financial Stability, October 2010 and IMF Response, Coffee 2012). But the mutual dependence of banks and governments led to new difficulties (Bradley 2014). In the European Union (EU), government bailouts of financial institutions increased stresses on public finances (Sutherland et al. 2012), which in turn led to market participants worrying about sovereign credit risk and a reduction in the value of some sovereign debt held by banks (ECB 2010; Lane 2012). The EU experienced a sovereign debt crisis on top of the financial crisis, and the EU and IMF imposed austerity measures as a condition for loans to states that needed financial assistance (Featherstone 2011; IMF 2010; Matsaganis 2011). More generally, policy-makers have emphasized the need to solve the problem that financial firms that are ‘too big to fail’ are subject to moral hazard and could cause financial crises in the future (European Commission Communication 2010/579; Siegert and Willison 2015). And regulators and market participants recognize that the idea of a risk-free financial asset is an illusion (Bank for International Settlements 2013).

The scale of the crisis and governmental financial support for troubled financial institutions, a US foreclosure crisis and EU sovereign debt crisis, domestic policies of austerity implemented with or without the

89 involvement of the IMF—as Ulrich Beck argued (2013: 68), ‘the risks  
90 posed by big banks are being socialized by the state and imposed on  
91 retirees through austerity dictates’—led to financial regulation becoming  
92 part of the general political conversation in a way that it had not been  
93 before the crisis when financial regulation was a matter for technocrats  
94 and market participants rather than politicians and citizens. Citizens  
95 engaged in public protests about austerity and failures of government  
96 from Syntagma Square to Wall Street (Calhoun 2013). The Occupy  
97 movement has spawned groups that have produced long and detailed  
98 critiques of regulatory proposals (Appel 2014; Occupy the SEC 2012),  
99 but citizens generally lack the expertise and resources to participate effec-  
100 tively in political and regulatory discussions of the complexities of finan-  
101 cial regulation (Levine 2012). And the politics surrounding financial  
102 regulation can be incomprehensible: in the USA the Chairman of the  
103 House Financial Committee on Financial Services asked, ‘who will pro-  
104 tect consumers from the overreach of the Consumer Financial Protection  
105 Bureau?’ (House Committee on Financial Services 2015).

106 The causes of the financial crisis included phenomena that had been  
107 present in other financial crises: asset bubbles, credit booms, build-up  
108 of risk and failures of regulation (Claessens et al. 2010: 4). But policy-  
109 makers identified what they described as new or newly significant phe-  
110 nomena that exacerbated the crisis: innovation involving complex and  
111 opaque financial instruments, increased interconnectedness of financial  
112 institutions and markets and increased leverage of financial institutions  
113 (Claessens op. cit.: 7).

114 Governments, international organizations and regulators reacted to  
115 the financial crisis by announcing that they would develop new and bet-  
116 ter rules of financial regulation. In 2008, the G20 states announced that  
117 they would do whatever was necessary to stabilize financial markets (G20,  
118 Declaration of 15 November 2008, also Buckley 2014). Although the  
119 G20 Declaration of 2008 referred to the need to improve financial regu-  
120 lation, there was no detail about what changes were planned, although  
121 there was an agreed Action Plan that assigned tasks to various actors:

122 We commit to protect the integrity of the world's financial markets by  
123 bolstering investor and consumer protection, avoiding conflicts of interest,

preventing illegal market manipulation, fraudulent activities and abuse, and protecting against illicit finance risks arising from non-cooperative jurisdictions. We will also promote information sharing, including with respect to jurisdictions that have yet to commit to international standards with respect to bank secrecy and transparency. (G20, 15 November 2008, *Declaration of the Summit on Financial Markets and the World Economy*)

The new measures to deal with risk in the financial system would be developed through international standards, and the G20 reiterated this plan the following year (G20, 2 April 2009) together with a commitment by the G20 states to implement the new standards (G20 *ibid.*). The Financial Stability Forum, which was established in 1999 to address issues of financial stability revealed by the Asian financial crisis (Carrasco 2010), would be reconstituted as the Financial Stability Board (FSB) with a broader mandate and with increased institutional capacity (G20 *ibid.*).

The G20 committed to ‘implement international financial standards (including the 12 key International Standards and Codes)’<sup>1</sup> and to ‘undergo periodic peer reviews, using among other evidence IMF/World Bank public Financial Sector Assessment Program reports’ (G20, 2 April 2009). Transnational standards for financial regulation would be improved and expanded and would be implemented more effectively. A significant component of the project was an intensification of the institutional arrangements for developing and ensuring implementation of international standards of financial regulation.<sup>2</sup> In the EU, the crisis led to new institutional mechanisms for the control of banking risks with

<sup>1</sup>The International Standards and Codes are the IMF’s Code of Good Practices on Fiscal Transparency, Code of Good Practices on Transparency in Monetary and Financial Policies, General Data Dissemination System, and Special Data Dissemination System the Basel Committee’s Core Principles for Effective Banking Supervision, IOSCO’s Objectives and Principles of Securities Regulation, IAIS’ Insurance Core Principles, The Basel Committee and IADI’s Core Principles for Effective Deposit Insurance Systems, the World Bank’s Insolvency and Creditor Rights Standard, the OECD’s Principles of Corporate Governance, the IASB and IAASB’s International Financial Reporting Standards (IFRS) and International Standards on Auditing (ISA), the CPMI/IOSCO Principles for Financial Market Infrastructures, and the FATF Recommendations on Combating Money Laundering and the Financing of Terrorism & Proliferation. See [http://www.financialstabilityboard.org/cos/key\\_standards.htm](http://www.financialstabilityboard.org/cos/key_standards.htm) date accessed 17 June 2015.

<sup>2</sup>See, for example, Financial Stability Board (29 January 2015). *First Annual Report: 28 January 2013–31 March 2014*, at ii (noting that the Financial Stability Board ‘became a separate legal entity in the form of an association (“Verein”) under Swiss law on January 28, 2013’.)

148 the creation of a European Banking Union and the transfer of powers to  
149 supervise eurozone banks to the European Central Bank (Moloney 2014).

150 In addition to redeveloping the architecture of international financial  
151 regulation, the G20 emphasized that systemic risk and financial stability  
152 are a core concern of financial regulation (G20, 2 April 2009). The FSB  
153 has taken on the task of evaluating states' implementation of interna-  
154 tional standards by means of country peer reviews (Financial Stability  
155 Board, 23 September 2010) and has also carried out thematic peer reviews  
156 that focus on issues the FSB regards as important for financial stability  
157 (Financial Stability Board, 8 February 2012). The FSB characterizes a  
158 major function of both types of peer review as encouraging dialogue and  
159 the sharing of experiences between FSB members.<sup>3</sup>

160 In 2009, in addition to commitments with respect to capital ade-  
161 quacy, credit rating agencies, pay and compensation, banking secrecy  
162 and accounting standards, the G20 announced that the FSB and IMF  
163 would collaborate to identify and warn of macroeconomic and finan-  
164 cial risks and that regulation would take account of macro-prudential  
165 risks and would deal with 'systemically important financial institutions,  
166 instruments and markets' (G20, 2 April 2009). The G20 countries also  
167 committed to 'conduct all our economic policies cooperatively and  
168 responsibly with regard to the impact on other countries' (G20 *ibid.*).  
169 Thus, the G20 recognized that maintaining financial stability required  
170 focusing on risks in three different but inter-related ways: through the  
171 lenses of micro-prudential risk (risks affecting individual firms), macro-  
172 prudential risk (systemic risks) and monetary policy (Tarrullo 2014).

173 In a number of ways, the G20 program of stabilizing financial mar-  
174 kets looked like a dramatic shift away from the pre-crisis paradigm of  
175 financial regulation in which technocratic regulators acknowledged  
176 and deferred to the expertise of market actors in identifying and con-  
177 trolling risk; governments were taking charge of financial regulation  
178 (Mackintosh 2014, 2015). The financial crisis was a political rather than  
179 merely a regulatory problem, and it required political as well as regula-

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<sup>3</sup> See, for example, Financial Stability Board (8 February 2012) *Thematic Review on Deposit Insurance Systems Peer Review Report*, 2. For a description of the procedures for FSB peer reviews see Financial Stability Board (7 January 2014b). *Handbook for FSB Peer Reviews*.

tory solutions. Governments stated publicly that they would take control of systemic risk domestically and through intensified transnational arrangements. The next sections of the chapter explore the extent to which the new transnational arrangements and the new approaches to systemic risk do and do not represent a paradigm shift in transnational financial regulation.

## The New Transnational Arrangements for Addressing Systemic Risk

The G20's commitment to a new co-ordination of financial regulation emphasizing financial stability is a departure from the pre-crisis paradigm of networks of regulators (Gadinis 2013). The Basel Committee, the International Organisation of Securities Commissions (IOSCO) and the International Association of Insurance Supervisors (IAIS) had been developing transnational standards for financial regulation since the 1980s. The Basel Committee published the Basel Accord in 1988 (Goodhart 2011), but central bankers and banking regulators had been focusing on issues raised by the internationalization of financial markets since the early 1970s (Goodhart 2011). IOSCO was formed in 1974 as a forum for discussion of issues relating to securities regulation and was formalized a decade later when it was incorporated in Quebec (Sommer 1996). In 1987, IOSCO established a Technical Committee that would be 'responsible for the co-ordination of international co-operation on the regulation of securities transactions' (IOSCO 1989: 2).

The IAIS was formed in 1994 (Braithwaite and Drahos 2000). These three organizations developed as international policy networks, linking policy-makers from different jurisdictions with common interests and facing common problems (Slaughter 2004). Indeed, as Reinicke ((1999–2000: 45) argued, 'Trapped by the territoriality of their power, policy makers in traditional settings often have little choice but to address the symptoms rather than the causes of public problems'.

Although the transnational standard setters for financial regulation developed a range of agreed standards, the standards are not formally

213 binding, even on states that participate in the relevant networks (Alford  
214 2005). States may feel pressure to comply with the standards (Brummer  
215 2011; Feldman 2013), the IMF can focus on standards as a component  
216 of conditionality with respect to its borrowers, and the IMF and World  
217 Bank have developed a Financial Sector Assessment Program (FSAP) to  
218 examine the extent to which states' laws are consistent with the interna-  
219 tional standards (Brummer 2011). But the standards have often been  
220 drafted in language that is vague and open to multiple interpretations  
221 (Barr and Miller 2006).

222 Even Basel II, which was much more detailed and specific than the  
223 original Basel Accord, provided states with significant leeway in imple-  
224 mentation (Kane 2007). In responding to the crisis, the G20 and the  
225 Financial Stability Board have emphasized the need to develop transna-  
226 tional standards to be more demanding and to give states less discretion  
227 with respect to implementation (G20, 2 April 2009).

228 It was the G20, rather than the transnational regulatory networks, that  
229 took the lead in responding to the crisis at the international level. States  
230 collaborated outside the established networks to implement responses to  
231 the crisis (although a history of co-operation through the networks may  
232 have facilitated this collaboration) (Zaring 2010). The G20 set out the  
233 parameters for the regulatory responses that the Financial Stability Board  
234 and the transnational networks would implement, thus giving politi-  
235 cal direction to processes that had previously seemed to be technocratic  
236 (Zaring *ibid.*) As Pan (2010: 245) argued, 'for financial law scholars, the  
237 G20, both in its existence and in the types of actions it puts forward, rep-  
238 represents only a temporary solution to an on-going problem of regulation  
239 of international financial markets and institutions'.

240 That financial regulation seemed more political during the crisis, when  
241 states were bailing out financial firms, was not surprising. And it was nec-  
242 essary for states to co-ordinate their behaviour at the transnational level  
243 because individual states could not control a transnational crisis on their  
244 own. Meanwhile, the international responses to the crisis, in particular  
245 the implementation and imposition of austerity measures, have also led  
246 to a new emphasis on the international financial system and financial  
247 regulation as political issues within domestic systems.



The FSB and the transnational standard setters have worked on implementing the G20 program for financial reform, but domestic legislators and regulators have taken steps to implement reforms to some extent independently.<sup>4</sup> The G20 established some general principles for reform of financial regulation. Although the transnational standard setters have developed more detailed standards to flesh out the general principles, states have been implementing their own versions of reformed regulation at the same time (Deutsch 2014; Financial Markets Law Committee 2015).

Thus the G20 principles have been implemented according to different timetables in different places (specifically in the EU and the USA), and the details of the new domestic regulatory regimes are not always consistent with each other (see, for example, Deutsch 9 July 2014 and GAO 3 April 2014). Market participants have critiqued these regulatory inconsistencies (GFMA et al. 30 May 2014).

The G20 committed to a new FSB peer review process to improve implementation of international standards, and, in addition, the standard setters have focused more attention on implementation of their standards than they had in the pre-crisis period. The Basel Committee had established an Accord Implementation Group to focus on implementation of the Basel II capital adequacy framework, and in 2009, the AIG was renamed<sup>5</sup> the Standards Implementation Group, and it was given a broader task of focusing on the Basel Committee standards more generally (BIS, 8 January 2009).

In 2011, the Basel Committee announced that it would be reviewing states' implementation of Basel III (Basel Committee on Banking Supervision, Oct 2011), and this initiative developed into a Regulatory Consistency Assessment Program (Basel Committee on Banking Supervision, Oct 2013). IOSCO carried out rather formal exercises in evaluating implementation of its resolutions and standards beginning in the 1990s (for example, IOSCO 1996, 2000). More recently

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<sup>4</sup>Note that it may sometimes be complex to achieve co-ordination of regulatory efforts domestically. See, for example, Government Accountability Office (2014).

<sup>5</sup>This renaming may or may not be connected with the bailout of the other AIG, which occurred in 2008. As to the bailout, see, for example, Sjoström, W. K. Jr. (2009). The AIG Bailout, *Washington & Lee Law Review*, 66, 943–991.

279 IOSCO has carried out significantly more detailed assessments of the  
280 extent to which states are implementing some of its standards. These  
281 assessments include evaluations of implementation of IOSCO stan-  
282 dards and principles relating to benchmarks (IOSCO, 25 February  
283 2015b), credit rating agencies (IOSCO, March 2009) and financial  
284 market infrastructures (IOSCO, April 2013). Thus, during and after  
285 the financial crisis, the Basel Committee and IOSCO intensified their  
286 existing interest in issues of implementation rather than developing  
287 an entirely new interest in implementation: an evolution rather than a  
288 change of paradigm.

289 In addition to the work of the Basel Committee and IOSCO, the IMF  
290 and World Bank continue to monitor implementation of the standards  
291 through the FSAP process. Within the IMF structure, FSAPs were origi-  
292 nally conceived as voluntary technical assistance, but the IMF decided to  
293 make Financial Sector Assessments a mandatory component of surveil-  
294 lance for countries with systemically important financial sectors (assessed  
295 based on criteria of size and interconnectedness).<sup>6</sup> Originally, the IMF  
296 identified 25 such countries, notably Australia, Austria, Belgium, Brazil,  
297 Canada, China, France, Germany, Hong Kong SAR, India, Ireland,  
298 Italy, Japan, Luxembourg, Mexico, Netherlands, Russia, Singapore,  
299 South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom, and  
300 the USA (see IMF, 27 September 2010a), and in 2013 the number of  
301 such countries was increased to 29 (all of the original 25 and Denmark,  
302 Finland, Norway, and Poland) (IMF, 15 November 2013). The list  
303 includes a large number of European countries because of the emphasis  
304 on interconnectedness (IMF, 15 November 2013).

305 The FSB peer reviews were intended to demonstrate that the G20  
306 countries were leading by example: their compliance with transnational  
307 standards, established by the peer reviews, would allow them more cred-  
308 ibly to encourage other countries to comply (FSB, 9 January 2010).  
309 But the FSB peer reviews do not, in fact, demonstrate compliance with  
310 international standards. They build on FSAP assessments rather than

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<sup>6</sup>IMF (21 September 2010b). *Decision No. 14736-(10/92)*. See also IMF (27 August 2010c). *Integrating Stability Assessments Under the Financial Sector Assessment Program into Article IV Surveillance: Background Material*. The IMF's approach to surveillance has been evolving. See, for example, IMF (30 July 2014a). *2014 Triennial Surveillance Review—Overview Paper*.

duplicating them: for example, they may assess how a state has responded to FSAP recommendations (Financial Stability Board, 7 January 2014b). The FSB Handbook for Peer Reviews states that, ‘unlike the FSAP, a country review does not comprehensively analyse a jurisdiction’s financial system structure or policies, nor does it provide an assessment of its conjunctural vulnerabilities or its compliance with international financial standards’ (Financial Stability Board, 7 January 2014b: 2).

What the decision not to reproduce FSAPs means is that the peer reviews are carried out on the basis of data in FSAPs that are not current, and on the basis of statements of regulators about what they are doing. For example, the Peer Review of Canada, published in January 2012, noted that it was ‘largely based on the Canadian financial authorities’ responses to a questionnaire designed to gather information about the actions taken in response to the relevant recommendations of the most recent Financial Sector Assessment Program Assessment for Canada’ (FSB, 30 January 2012: 3). This FSAP assessment of Canada had been carried out four years earlier, in 2008 (IMF, February 2008). The FSB suggests that its peer reviews are geared to examining the responsiveness of the states subject to the reviews to recommendations made in the FSAP process rather than to monitoring compliance with international standards. In the case of Canada, the time lag was significant: Canada’s FSAP was completed in the early stages of the financial crisis, so a focus on how Canada responded to recommendations made at that time does not help very much to instil confidence about what Canada was doing with respect to changes in thinking about standards between 2008 and 2012. At the same time, the peer review report does include a lot of information about Canada’s reactions to the financial crisis (see, for example, FSB, 30 January 2012). And the Canadian financial system fared well during the crisis.

The FSB says that one of the main functions of the peer reviews is to encourage dialogue between the participants:

The added value of the FSB comes in significant part from the cross-sectoral, cross-functional, system-wide perspective brought by its members. Dialogue with peers and the sharing of lessons and experiences are a key benefit of FSB peer reviews (FSB, 7 January 2014b).

346 The FSB is not the only body that can promote dialogue, but unlike  
347 the Basel Committee or IOSCO it includes participants who focus on  
348 different sectors of finance. As some of the complex issues financial  
349 regulators need to deal with relate to regulatory perimeters, gaps and  
350 arbitrage—shadow banking is this type of complex issue, for instance  
351 (Schwarcz 2013, and Financial Stability Board, 14 November 2014a)—a  
352 body that can bring together people who understand the different parts  
353 of the overall picture is useful. The FSB's decision to focus on thematic  
354 and country peer reviews reflects this idea: the objective of thematic peer  
355 reviews is to evaluate (where possible) the extent to which standards and  
356 policies have had their intended results, to identify gaps and weaknesses  
357 in reviewed areas and to make recommendations for potential follow-  
358 up (including via the development of new standards) by FSB members  
359 (FSB, 7 January 2014b).

360 This idea of the benefit of dialogue among regulators was cited before  
361 the financial crisis as an advantage of the regulatory networks that  
362 proved to be unable to limit the crisis without governmental interven-  
363 tion. What the FSB describes is a process that involves a wider range  
364 of technocrats than participated in the individual standard-setters: it is  
365 cross-sectoral, cross-functional and system-wide rather than being lim-  
366 ited to banking, securities or insurance. But the cross-sectoral commu-  
367 nication is not entirely new; beginning in 1993, the sectoral regulators  
368 did co-operate in a Tripartite Group, later renamed the Joint Forum, to  
369 address issues raised by the 'growing emergence of financial conglomer-  
370 ates and the blurring of distinctions between the activities of firms in  
371 each financial sector' (Basel Committee on Banking Supervision 2001b:  
372 5). The Joint Forum met three times a year between 1996 and 2001  
373 (Basel op. cit.), and it has established working groups to focus on par-  
374 ticular issues. For example, in 2000, the Joint Forum established a work-  
375 ing group to compare the core principles that had been developed by  
376 the sectoral standard-setters (Basel Committee on Banking Supervision,  
377 November 2001a: 1).

378 In 2004, the IMF published a paper that identified a number of  
379 emerging risks and cross-sectoral issues the standard-setters should  
380 address (IMF, 4 August 2004). The Joint Forum had convened an indus-

try roundtable to address cross-sectoral issues in 2003; it established a Working Group on Regulatory and Market Differences, noted the IMF's paper and published its own paper on cross-sectoral issues in 2006 (Basel Committee on Banking Supervision 2006: 1). These are only a few examples of the Joint Forum's work, but they do illustrate that cross-sectoral discussions were occurring before the financial crisis, and that the FSB's cross-sectoral work is not really new.

The Joint Forum's 2006 cross-sectoral issues paper noted that there had been some convergence in market practice and regulation across sectors (Basel Committee on Banking Supervision 2006: 3). For example, the paper identifies risk management within financial conglomerates as an area of convergence in market practice (Basel Committee on Banking Supervision 2006: 4–5). Generally, the Joint Forum characterized this development as positive, although the paper did note that 'supervisors recognise that models are only one tool in a firm's risk management process and that they have their limitations' (Basel Committee on Banking Supervision 2006: 5). In 2013, the Joint Forum decided to survey regulators and firms in order to 'understand the current state of credit risk...management given the significant market and regulatory changes since the financial crisis of 2008' (The Joint Forum, February 2015: 1).

This brief sketch of some aspects of the work of the transnational standard setters, individually and together through the Joint Forum, with the co-operation of the IMF, illustrates that the work of the FSB is another step in an evolving process of transnational co-ordination of financial regulation rather than a new phenomenon. The developing discourse among financial regulators is also an example of evolution rather than something that is novel. While a more comprehensive and regulator dialogue among regulators may be useful, we should also note that groupthink has been identified as an issue in the lead-up to the crisis (Independent Evaluation Office of the IMF 2011: 1), and the new processes are not guaranteed to produce better thinking. Nor are they guaranteed to apply an appropriate level of scepticism to the claims of financial market participants. Indeed, Admati and Hellwig (2013), too, argue that not much has really changed in banking regulation.

## 416 Systemic Risk After the Financial Crisis

417 Just as the structures and processes for international cooperation in  
418 financial regulation seem to be an evolution rather than a paradigm  
419 shift, the regulatory approaches to systemic risk can be characterized  
420 as an evolution of pre-crisis financial regulation. The language pol-  
421 icy-makers use to describe their focus on systemic risk has changed:  
422 macro-prudential regulation is added to micro-prudential regulation (a  
423 development that has been characterized as dramatic) (Baker 2013: 418;  
424 Mackintosh 2015), and monetary policy must take account of financial  
425 stability concerns.<sup>7</sup>

426 In its Financial Stability Report in December 2014, the Bank of  
427 England analysed market liquidity from microstructural and macrofinan-  
428 cial perspectives, describing how market liquidity can build up systemic  
429 risk (Bank of England, Dec 2014: 54–56). During the financial crisis,  
430 securitizations involved liquidity problems (Bank of England op. cit.:  
431 56), and the Report states that ‘efforts are now underway internationally  
432 to improve the simplicity and transparency of securitisations’ (Bank of  
433 England, December 2014: 56).

434 The example of securitization clearly comes from the last crisis and the  
435 acknowledgment of the relationships between firm safety and soundness,  
436 systemic stability and monetary policy reflects a complex thinking about  
437 financial stability, which, as of December 2014, also included issues relat-  
438 ing to damage to market confidence from bank misconduct:

439 Recent misconduct and other operational failings have highlighted that  
440 rebuilding confidence in the banking system requires more than financial  
441 resilience. That, and changes to banks’ business models in response to com-  
442 mercial and regulatory developments, make it important for banks to con-  
443 tinue to enhance the effectiveness of their governance arrangements. (Bank  
444 of England, December 2014: 48)

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<sup>7</sup>Although compare Yellen, J. (2 July 2014). *Monetary Policy and Financial Stability, Remarks at the 2014 Michel Camdessus Central Banking Lecture, International Monetary Fund, Washington, D.C.* (‘In my remarks, I will argue that monetary policy faces significant limitations as a tool to promote financial stability’.)

In March 2015, the Bank of England, noted that it is ‘one of a handful of institutions internationally with responsibility for monetary macroprudential and microprudential policy’, and published an agenda for research on the inter-relationship between these policy areas (Bank of England, March 2015b: 1). The agenda recognizes that recent changes in the regulatory environment and the conduct of monetary policy demand further research to understand their implications for financial stability (Bank of England, March 2015b: 3–4).

[AU3] Policy-makers did not begin to think about issues of financial stability (or even macro-prudential regulation) in 2007. The Bank of England published the first financial stability review in 1996 after the failure of BCCI and Barings (Oosterloo et al. 2007). Claudio Borio at the Bank for International Settlements, the institution that houses the Basel Committee’s secretariat, advocated a macro-prudential approach in 2003 (Borio 2003), and some years earlier than that he wrote about regulation and financial stability (Borio and Filosa 1994). The European Central Bank has published a Financial Stability Review since December 2004 (European Central Bank, December 2004: 7). Recent developments in thinking about financial stability thus look, as do the changes in the institutional arrangements for setting international standards for regulation, like an evolution rather than a dramatic change.

Although the terminology of macro-prudential regulation has spread since the crisis, policy-makers were concerned about similar issues under the rubric of financial stability before 2007: financial crises with varying causes and characteristics had preceded the global financial crisis (Krugman 1999). Other financial crises have involved losses of confidence in financial institutions (Bernanke 1983). So rules of financial regulation aim to boost confidence in the safety and soundness of financial institutions, particularly, commercial banks. Rules to address safety and soundness address issues within individual financial firms, but they also address the risk of contagion, which is a systemic issue. And the concern about panics is not new: Alex Preda notes that ‘panics became an object of systematic description in the 1860s’ (Preda 2009: 221).

Speculative bubbles are frequently a component of crises. De Long and Shleifer (1991: 677), studying the 1929 stock market bubble, estimate that, at the peak, the stock index was more than one third above its

481 fundamental value. Legislators and regulators have, however, designed  
482 rules of financial regulation to reduce the likelihood of speculation  
483 (Bradley 2000). The margin requirements that apply to securities and  
484 derivatives trading are meant to limit speculation (Furbush and Poulsen  
485 1989). Bubbles are phenomena that do not affect only individual firms  
486 or investments but also categories of investments: tulips, securities of  
487 high-tech firms, or real property (Eichengreen 2015).<sup>8</sup> Housing mar-  
488 kets and speculation in real property were part of the background to the  
489 financial crisis:

490 While the vulnerabilities that created the potential for crisis were years in  
491 the making, it was the collapse of the housing bubble—fueled by low inter-  
492 est rates, easy and available credit, scant regulation, and toxic mortgages—  
493 that was the spark that ignited a string of events, which led to a full-blown  
494 crisis in the fall of 2008. (Financial Crisis Inquiry Commission 2011: xvi)

495 Policy-makers worried about the transnational transmission of risk  
496 through the financial system before 2007. Charles Goodhart identi-  
497 fies concerns relating to systemic risk and the Euromarkets dating back  
498 to the early 1970s but which were exacerbated by the collapse of Bank  
499 Herstatt in 1974 (Goodhart 2011: 3–4). In 1985, the Governors of the  
500 G10 Central Banks established a study group to focus on international  
501 banking (Goodhart 2011: 352–3). When the group reported the follow-  
502 ing year, it warned that innovation in the financial markets could be con-  
503 tributing to systemic vulnerabilities (Bank for International Settlements  
504 1986). This was the beginning of the process that led to the development  
505 of the transnational standard-setters. As Goodhart shows, over the period  
506 between the early 1970s and the collapse of Lehman Brothers, policy-  
507 makers and academics worried about risks to financial stability, includ-  
508 ing those which derived from the internationalization of the financial  
509 markets. In 1998, Benjamin Cohen warned that ‘monetary geography

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<sup>8</sup> Describing the Florida property market bubble of the 1920s, Peter Garber has written: ‘Gathered around the campfires early in their training, fledgling economists hear the legend of the Dutch tulip speculation from their elders, priming them with a skeptical attitude toward speculative markets’. Garber (1989: 535). Compare Roubini (2006) and Posen (2006).



[AU4] needs to be re-conceptualized in functional terms, to focus on evolving 510  
networks of currency transactions and relationships' (Cohen 1998: 5). 511

The post-financial crisis developments with respect to micro-prudential 512  
risk are refinements of and additions to regulatory standards that applied 513  
before the financial crisis: banking regulators have been revising capital 514  
adequacy requirements for banks so that they address credit risk more 515  
effectively (Basel Committee on Banking Supervision, March 2015) and 516  
also so that they now address liquidity risk (Basel Committee on Banking 517  
Supervision, March 2015: 3–4). 518

These refinements of capital adequacy requirements are designed to 519  
make sure that risks are contained within banking firms. Banking regula- 520  
tors evaluate the effectiveness of the new requirements by carrying out 521  
stress-tests that examine how a bank's capital would deal with adverse 522  
events (Board of Governors of the Federal Reserve System, March 2014). 523  
In order to bolster the internal containment of risks, policy-makers argue 524  
that banks should issue contingent convertible bonds (CoCos) as a com- 525  
ponent of capital. CoCos are bonds designed to absorb losses either by 526  
means of a writedown of principal or because they are convertible into 527  
equity on the occurrence of defined events, such as when the issuer's regu- 528  
latory capital falls below a specified proportion of risk-weighted assets 529  
(Avdjiev et al. 2013). The regulatory focus on liquidity, stress-testing and 530  
instruments to ensure that capital actually absorbs risks reflect reactions 531  
to the circumstances of the last crisis. It is a perennial characteristic of 532  
regulation that it tends to address issues that are historic, and policy- 533  
makers' ability to predict the future is limited. Regulation introduced to 534  
control risks that developed in the past may create their own new risks as 535  
market participants manoeuvre around the rules.<sup>9</sup> 536

Like the new rules to address micro-prudential risk, the recent devel- 537  
opments in thinking about macro-prudential risk are designed to address 538  
the issues that policy-makers can identify based on past events. The need 539  
to identify, analyse and control for interconnectedness is a critical com- 540  
ponent of the thinking about financial stability since the crisis (Gai et al. 541

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<sup>9</sup> Compare, for example, Jackson et al. (April 1999: 2): 'over time the banks have learnt how to exploit the broad brush nature of the requirements—in particular the limited relationship between actual risk and the regulatory capital charge. For some banks, this has probably started to undermine the meaningfulness of the requirements'.

542 2011); financial market activity interconnects across territorial borders,  
543 across market sectors and through transactional linkages in ways that  
544 pre-crisis financial regulation did not effectively address. Transnational  
545 financial regulation had, in the past, sought to address some of these  
546 issues. For example, the Joint Forum had studied cross-sectoral issues  
547 (Basel Committee on Banking Supervision, The Joint Forum 2006) and  
548 credit risk transfer (Joint Forum, March 2005) before the crisis. But this  
549 focus did not prevent the problems that led to the bailout of AIG, an  
550 insurance firm that took on excessive amounts of credit risk via credit  
551 default swaps (Sjostrom 2009). So in the post-crisis period, regulators  
552 seek to identify firms that, like AIG, pose risks to financial stability; such  
553 firms are systemically significant financial institutions (SIFIs) (Financial  
554 Stability Board, 4 November 2011).

555 As the Basel capital adequacy requirements focused on the need for  
556 capital to address credit risk, banks could comply with the requirements  
557 by increasing capital or by reducing the credit risks to which they were  
558 exposed. Banks developed various strategies designed to have the effect  
559 of transferring credit risk to firms that were not regulated as banks and  
560 not subject to the same capital adequacy requirements as banks.<sup>10</sup> Firms  
561 that perform functions similar to the functions we associate with banks  
562 are now known as shadow banks, and policy-makers have been trying to  
563 address a range of issues associated with shadow banking.<sup>11</sup> This includes  
564 new rules to address risks associated with securitization (see, for exam-  
565 ple, Department of the Treasury Office, 24 December 2014; Segoviano  
[A 566] et al. 2015), securities lending and repo transactions (Financial Stability

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<sup>10</sup> See, for example, Joint Forum (March 2005): 'In recent decades, loan syndication and securitisation activities experienced significant growth. The present report, however, focuses more narrowly on the newest forms of CRT, in particular on those activities associated with credit derivatives'. And compare with Eichengreen (2015) who notes that the focus on regulating banks obscured the risks developing in nonbanks.

<sup>11</sup> See, for example, EU Commission (9 April 2013a). *Shadow Banking—Addressing New Sources of Risk in the Financial Sector*, COM (2013) 0614 final; EU Commission (19 March 2012). *Shadow Banking Green Paper*, COM (2012) 102 final; Financial Stability Board (29 August 2013a). *Strengthening Oversight and Regulation of Shadow Banking Policy Framework for Strengthening Oversight and Regulation of Shadow Banking Entities*; IMF (October 2014b). *Global Financial Stability Report: Risk Taking, Liquidity, and Shadow Banking—Curbing Excess While Promoting Growth*, Chapter 2.

Board, 29 August 2013a, b) and money market funds (EU Commission, 9 April 2013a).

Money market funds and asset management firms are an important part of the new focus on financial stability because of their ‘systemic interconnectedness...with the banking sector on the one hand and with corporate and government finance, on the other hand’ (EU Commission, 9 April 2013a: 2), and they are perceived as vulnerable to runs (EU Commission, 9 April 2013a: 3).

In the USA, the Office of Financial Research published a report on the asset management industry in 2013 that identified possible risks to financial stability from asset management firms and concluded that there was a need for more data to allow for effective macro-prudential analysis (Office of Financial Research, September 2013: 24). In December 2014, the US Financial Stability Oversight Council, the body responsible for designating SIFIs in the USA, published a notice in the Federal Register asking for information about asset management (Financial Stability Oversight Council, 24 December 2014: 77488, Financial Stability Oversight Council, 11 February 2015: 7595).

Meanwhile, the Financial Stability Board has been working on developing criteria for identifying non-bank, non-insurer (NBNI), global SIFIs (NBNISIFIs), publishing an initial consultative document in 2014 (Financial Stability Board, IOSCO, 8 January 2014), which generated a number of comments and was followed by a second consultation document in 2015 (Financial Stability Board, IOSCO, 4 March 2015, FSB NBNI Consultation 2015: 1). The initial consultation document identified three ways in which an NBNI could have an impact on financial stability: through the impact of its failure on counterparties, through the impact on the market from asset liquidation forced by its failure, and from its failure to provide a service on which other market participants relied (FSB NBNI Consultation 2014: 3). The FSB noted that the task of identifying NBNISIFIs was a complex one because many different types of firm with different characteristics might be implicated: ‘the methodologies have to allow sufficient flexibility to capture different risks (or externalities) posed by entities in each type/sector appropriately while maintaining a certain degree of consistency across the entire NBNI financial space’ (FSB NBNI Consultation 2014: 5). The FSB’s criteria

603 for evaluating systemic significance are: size, interconnectedness, substi-  
604 tutability, complexity and global activities (cross-jurisdictional activities)  
605 (FSB NBNI Consultation 2014: 5, see also FSB NBNI Consultation  
606 2015: 6).

607 Even this very brief outline of the work that policy-makers have been  
608 doing to identify and seek to control macro-prudential risks makes it  
609 clear that the endeavour is time- and resource-intensive, and that the  
610 policy approaches are as complex as the phenomena they address. The  
611 starting point for thinking about macro-prudential risks is the events  
612 leading up to and during the financial crisis. The idea of focusing on  
613 interconnectedness and complexity derives from the crisis. At the same  
614 time, the policy-makers are trying to develop methodologies for iden-  
615 tifying risks in more nuanced ways. And the ongoing process of work-  
616 ing to understand systemic risk more completely—as illustrated, for  
617 example, by the Bank of England’s One Bank Research Agenda—gives  
618 some hope for the future, because it does not take the easy or obvious  
619 route but attempts to engage with the real substance of market activ-  
620 ity (Bank of England, March 2015b, Bookstaber and Glasserman, 11  
621 February 2015).

622 Monetary policy does have implications for financial stability, and rec-  
623 ognition of this fact is part of the new approach to thinking about finan-  
624 cial institutions and markets. As Roubini argues (2006: 93): ‘Although  
625 the precise magnitude of the effect may be uncertain, the fact that bub-  
626 bles have an impact on the economy—on the way up and on the way  
627 down—means that monetary policy needs to take them into account’.  
628 But the idea of considering financial stability a component of monetary  
629 policy is not new, it is difficult to implement, and different policy-makers  
630 have different views about the extent to which monetary policy should  
631 take account of financial stability, price stability and employment. Those  
632 who argue that monetary policy should address issues of financial stabil-  
633 ity note that ‘financial institutions have a natural tendency to accumu-  
634 late assets that are too risky and to hold too little capital’ (Cechetti and  
635 Kohler 2014: 208). Increasing interest rates could reduce asset price bub-  
636 bles (Cechetti and Kohler 2014: 209). But the actions of central banks in  
637 managing monetary policy to address domestic issues have implications

not only for domestic financial stability but also for international financial stability (Bush et al. 2011: 4). 638  
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Together, new approaches to micro-prudential, macro-prudential and monetary policy are designed to address the risks that policy-makers worry about as a result of their understanding of the global financial crisis. But our understandings of crises are only partial, and fixing the problems we can see may disguise the fact that other problems are building up (Eichengreen 2015: 379). Progress in development and implementation of new transnational standards of financial regulation is slow, and the new approaches are often developments of, rather than substitutes for, earlier standards. Financial regulation remains complex in ways that impede effectiveness and make it hard for non-experts in financial regulation to understand what the rules are. The development of complex research and analysis of risk in central banks and financial regulators provides a useful expertise counterpoint to the expertise claims of market participants, perhaps reducing risks of over-reliance on market-based expertise. However, there are contexts in which regulators depend on information they acquire from market participants (see, for example, Joint Forum, February 2015: 1), and market participants and trade associations are not shy about expressing their views on financial regulation (see, for example, Cross-Border Regulation Forum 23 February 2015 and Public Comment on the Task Force on Cross Border Regulation, ISDA, 23 February 2015). 640  
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## Conclusions 661

This chapter characterizes policy responses to the financial crisis as evolutionary rather than as a paradigm shift (Helleiner 2014), in contrast to the views of some commentators who have argued that there has, in fact, been a paradigm shift in financial regulation as governments have moved away from deregulation (Mackintosh 2014). 662  
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This chapter shows that regulators have engaged in more and different transnational co-operation than they did before the crisis. Before the financial crisis, regulators behaved as though risks in financial mar- 667  
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670 ket activity could be controlled. Since the financial crisis, we know that  
671 risk-free financial assets do not exist, but regulators continue to fine-  
672 tune the mechanisms of risk-control. Rather than moving away from  
673 models-based approaches to risk management, regulators have refined  
674 the models. Both in terms of the institutional structures of transnational  
675 co-operation and in terms of the mechanisms of risk management, the  
676 post-crisis environment is a response to the problems that surfaced dur-  
677 ing the crisis. The urgency of the problems demanded quick responses,  
678 which could explain an evolutionary response. As Tsingou (2014: 418)  
679 argues, ‘fast-burning crises are characterised by alarm and an urgent  
680 demand for political action. In fast-burning crises, the time available for  
681 reaction is limited. Such crises are times at which knowledge is “hot” in  
682 addressing problems, where policy-makers seek clear ideas that can put  
683 out the flames’.

684 At the same time, the scale of the problems raised more fundamen-  
685 tal questions about the role of finance in society and about how finan-  
686 cial regulation should develop. Financial regulation was seen to involve  
687 political rather than merely technocratic questions, and deregulation was  
688 seen to involve costs as well as (or even rather than) benefits. If financiers’  
689 irresponsible behaviour (Crouch 2014) led to bailouts and austerity mea-  
690 sures that reduced support for the most vulnerable members of society—  
691 Crouch (2014: 118) noted that ‘the policies that the EU, with others, has  
692 imposed on the problem economies of the euro zone call overwhelmingly  
693 for the exposure of workers to radical insecurity’—then a fundamental  
694 rethinking of the relationship between finance and society was necessary:  
695 ‘If the financial system is a public good, it should be regulated like one,  
696 with the public interest in stability as the guiding consideration’ (Mügge  
697 2014: 415).

698 There is evidence that a new era of strong government regulation can-  
699 not be taken for granted in finance or in other arenas. Financial firms  
700 complain about over-regulation (American Bankers Association 2014) or  
701 suggest they might move their headquarters to jurisdictions with lower  
702 regulatory costs (Colchester 2015). Meanwhile, other commentators  
703 worry about the dangers of regulatory capture (Boyer and Ponce 2012),  
704 revolving doors between regulators and financial firms (Lucca et al. 2014,

Project on Government Oversight, 11 February 2013) and new build- 705  
ups of risk (Segoviano et al. 2015). 706

Debates about what the appropriate level of regulation might be do 707  
not just involve financial firms and those who wish to regulate them. 708  
Negotiations over a Transatlantic Trade and Investment Partnership 709  
include negotiations about harmonizing impact assessment of regula- 710  
tion (see, for example, EU Commission 2013b). Impact assessment of 711  
regulation tends to reduce, rather than increase, the amount of regu- 712  
lation (OECD 2009). Proponents of increasing the application and 713  
effectiveness of regulatory impact analysis argue that it can prevent 714  
regulation, which is excessively costly given the anticipated benefits 715  
(OECD 2009). But regulatory impact analysis also has critics who 716  
worry that it merely disguises exercises of discretion (Coates 2015) 717  
and can impede useful regulations (Kennedy 1981). Regulatory pol- 718  
icy is an arena of contestation, and deregulatory imperatives have not 719  
been overcome. 720

[AU7] But other developments suggest that simple deregulation may still not 721  
win out. Ulrich Beck has argued, that ‘global risks—like climate change 722  
or the financial crisis—have given us new orientations, new compasses 723  
for the twentyfirst-century world’ (Beck 2014: 79). Financial stability 724  
has been threatened by cultural problems in finance that are different 725  
from the problems the post-crisis regulatory reforms were designed to fix. 726  
Manipulation of Libor and other benchmarks led IOSCO to focus on 727  
ensuring the integrity of benchmarks (see, for example, IOSCO 2015). 728  
In the UK, the Treasury, the Bank of England and the Financial Conduct 729  
Authority established a Fair and Effective Markets Review to examine 730  
how misconduct occurred and how it can be prevented for the future 731  
(Fair and Effective Markets Review, June 2015, and October 2014). 732  
Following on from this review, the Bank of England announced a dis- 733  
cussion of ‘Building Real Markets for the Good of the People’ (Bank of 734  
England, June 2015a). 735

Financial regulation continues to be the subject of evolving thought, 736  
and central banks and financial regulators are exploring risk in new and 737  
serious ways. Andrew Haldane of the Bank of England has given a number 738  
of speeches in which he has argued for a financial reformation (Haldane, 739

740 29 October 2012), a more radical rethinking of financial regulation that  
 741 takes on the complexity of financial regulation rather than taking it for  
 742 granted (Haldane and Madouros, 31 August 2012).

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# Author Queries

Chapter No.: 3 03

Queries	Details Required	Author's Response
AU1	AU: Please provide page numbers for all direct quotes.	
AU2	Ref. "IOSCO 2000" is cited in text but not provided in the reference list. Please provide details in the list or delete the citation from the text.	
AU3	AU: Please spell out at first occurrence.	
AU4	The citation "Cohen 1988" has been changed to "Cohen 1998" to match the author name/date in the reference list. Please check if the change is fine in this occurrence and modify the subsequent occurrences, if necessary.	
AU5	The citation "Financial Stability Board, 2013" has been changed to "Financial Stability Board 2013a, b" to match the author name/date in the reference list. Please check if the change is fine in this occurrence and modify the subsequent occurrences, if necessary.	
AU6	AU: Consider revising. There seems to be more than one starting point.	
AU7	AU: Is there a hyphen in the source text?	
AU8	References "European Banking Authority (2014), Independent Evaluation Office of the International Monetary Fund (2013), IOSCO (2015a, 2014a, b)" are not cited in the text. Please cite these references in text or delete them from list.	