

The regulatory change transmission mechanism and Basel 3

A practitioner perspective

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Simon Brennan | 28 June 2019

Implementation of Basel 3 in the EU

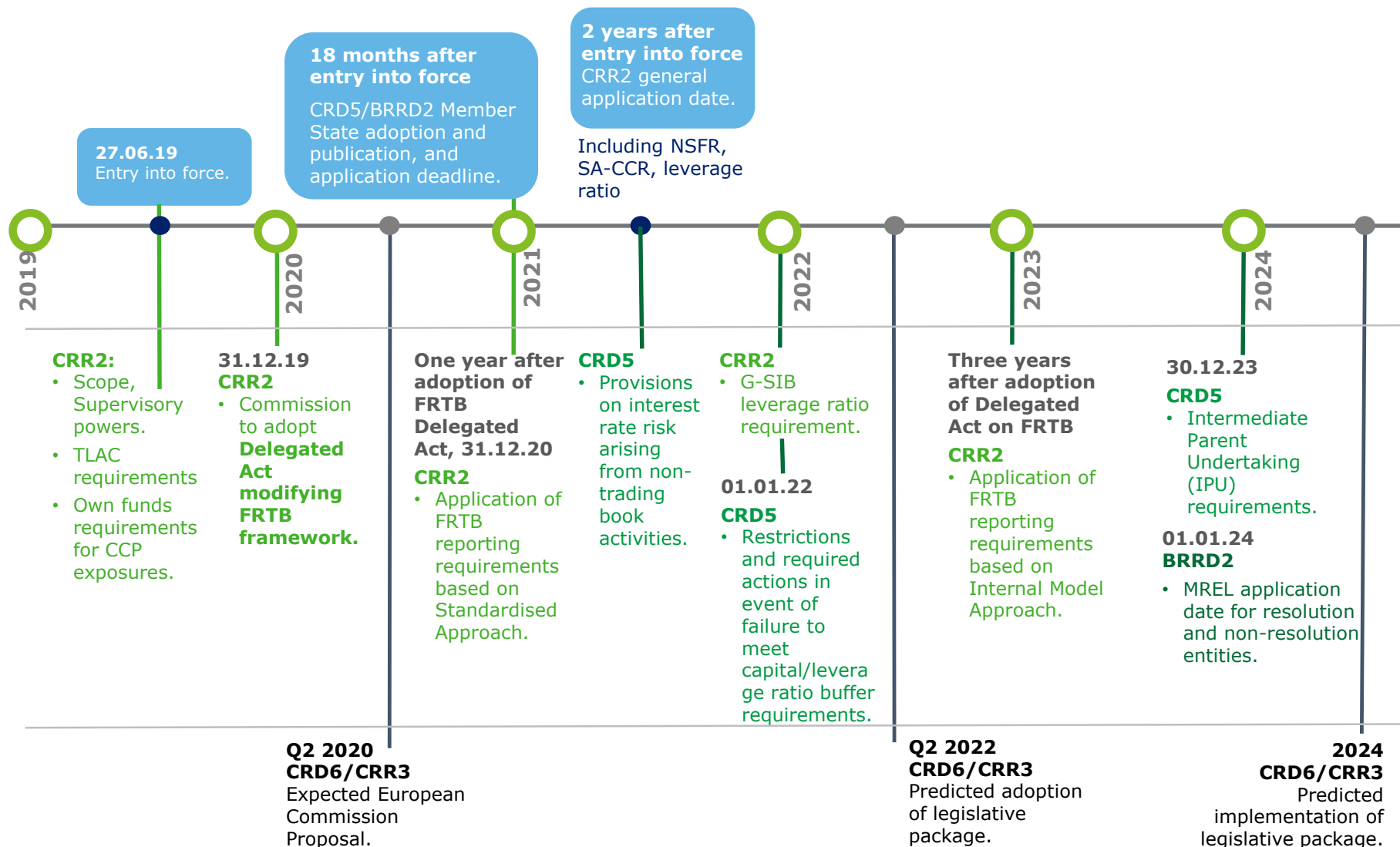
Adoption split across recently-finalised and yet-to-be-written legislation

Basel December 2017 revisions		CRR2	CRR3
Credit Risk	<ul style="list-style-type: none">Standardised Approach for Credit Risk.Internal Ratings-Based Approach for Credit Risk.		To be adopted
Fundamental Review of the Trading* Book (FRTB)	<ul style="list-style-type: none">Delayed application of framework to January 2022.BCBS published its final rules for FRTB in January 2019*.	Introduced as a reporting requirement	To be adopted as a binding requirement
CVA, Operational Risk, Output Floor	<ul style="list-style-type: none">Minimum capital requirements for Credit Valuation Risk (CVA) risk.Minimum capital requirements for Operational Risk.Standardised output floor.		To be adopted
Leverage Ratio	<ul style="list-style-type: none">Revised exposure definition.G-SIB buffer.	Leverage ratio G-SIB buffer introduced	Revised Exposure definition likely to be introduced

*These [rules](#) will be reflected by the European Commission by way of a Delegated Act under CRD5/CRR2.

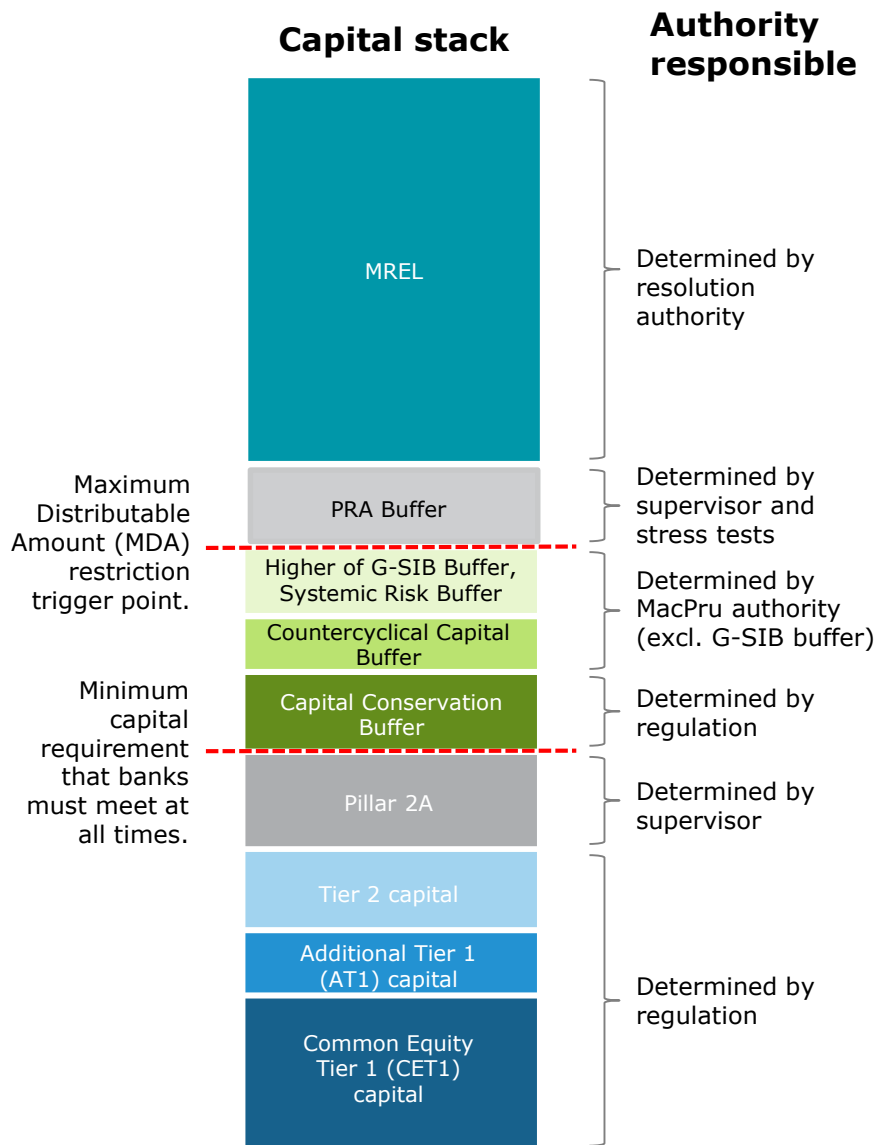
Implementation of Basel 3 in the EU

Expected timeline



Prudential framework at a glance

Complex and multivariate, and with many stakeholders

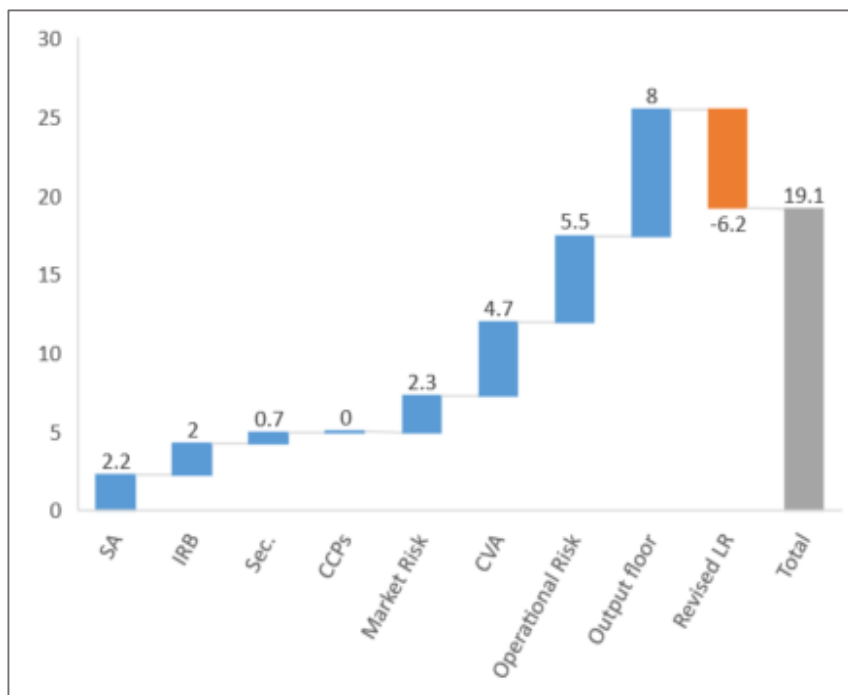


	Component	Status
Calculating Pillar 1 capital requirements	Credit risk	• Major revisions to IRB and SA, plus output floors.
	Market risk	• FRTB implementation split over CRR2 and CRR3.
	Operational risk	• Fundamental revision via removal of AMA.
	Leverage ratio	• Implementation via CRD5/CRR2.
	Sovereign risk	• Progress on new rules paused
Pillar 2	IRRBB	• Revised EBA guidelines to apply from 30 June 2019.
	Stress testing	• Continuously evolving framework/expectations.
Liquidity and funding	LCR	• Stable [but perhaps needs to be revised].
	NSFR	• Implementation via CRD5/CRR2 forthcoming.
Gone-concern	MREL/TLAC	• Implementation ongoing.
Quasi-external factors	IFRS9	• Recently applicable, stable.
	TRIM	• Ongoing, likely to lead to revisions to IRB.
	Model risk management	• Area of ongoing supervisory focus.

Impact of Basel 3

2017 revisions increase capital requirements and alter balance between components of the framework

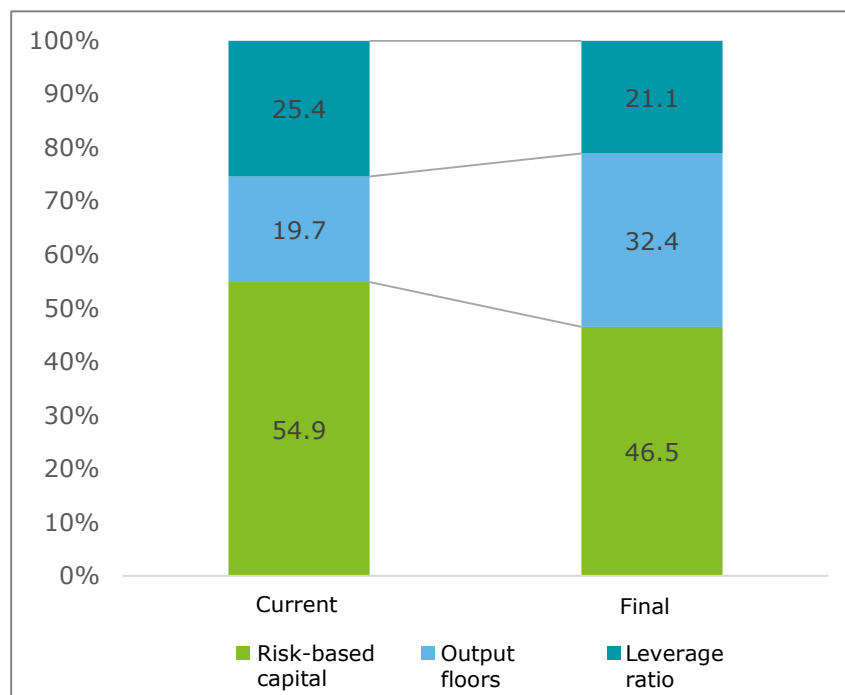
Change in total T1 minimum capital requirements due to the full implementation of Basel 3 – as a percentage of the overall current requirements, EU banks peer group



Source: 'Basel 3 monitoring exercise', EBA, March 2019.

Notes: Table 1. Weighted-average impact across all banks. Based on June 2018 EBA Quantitative Impact Study data.

Impact of 2017 Basel revisions on constraining factor on banks' capital positions – per cent of banks, Global banks peer group



Source: 'Basel 3 monitoring report', BCBS, December 2017.

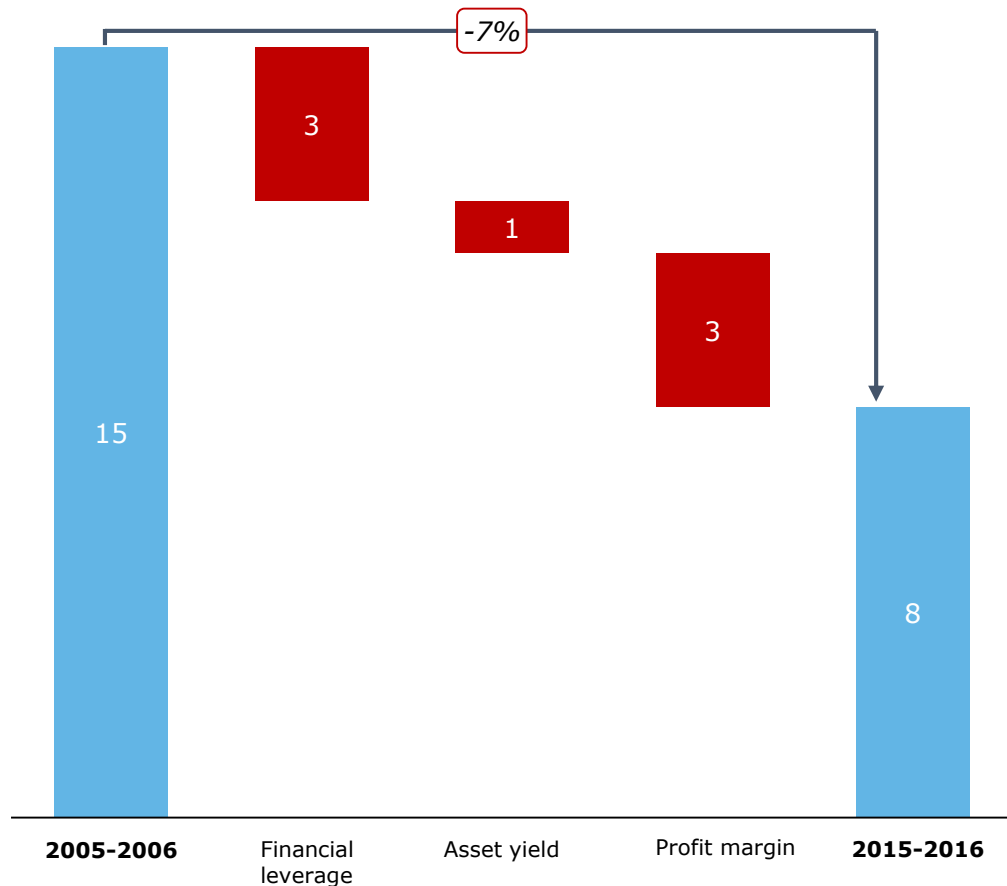
Notes: Table B6. Proportion of Group 1 banks (internationally active banks with >€3bn T1 capital) constrained by different elements of capital regime under current framework vs. 2017 revised package.

Impact of Basel 3

Return on Equity (RoE) is below pre-crisis levels, primarily due to lower financial leverage and profit margins

DuPont analysis of bank profitability

Simple average, per cent



Of which, changes by business model

	ROE, 2005 -06	Change			ROE, 2015 -16
		Financial leverage	Asset yield	Profit margin	
Retail-funded	15	-2	-2	-6	6
Wholesale-funded	14	-2	-2	-2	8
Universal	15	-4	0	-2	9
Trading	14	-5	1	-1	9

Source: 'Structural changes in banking after the crisis', Committee on the Global Financial System, January 2018.

Notes: Table 3. Financial leverage = assets / equity, asset yield = revenue / assets and profit margin = net profit/revenue.

Regulatory change transmission mechanism

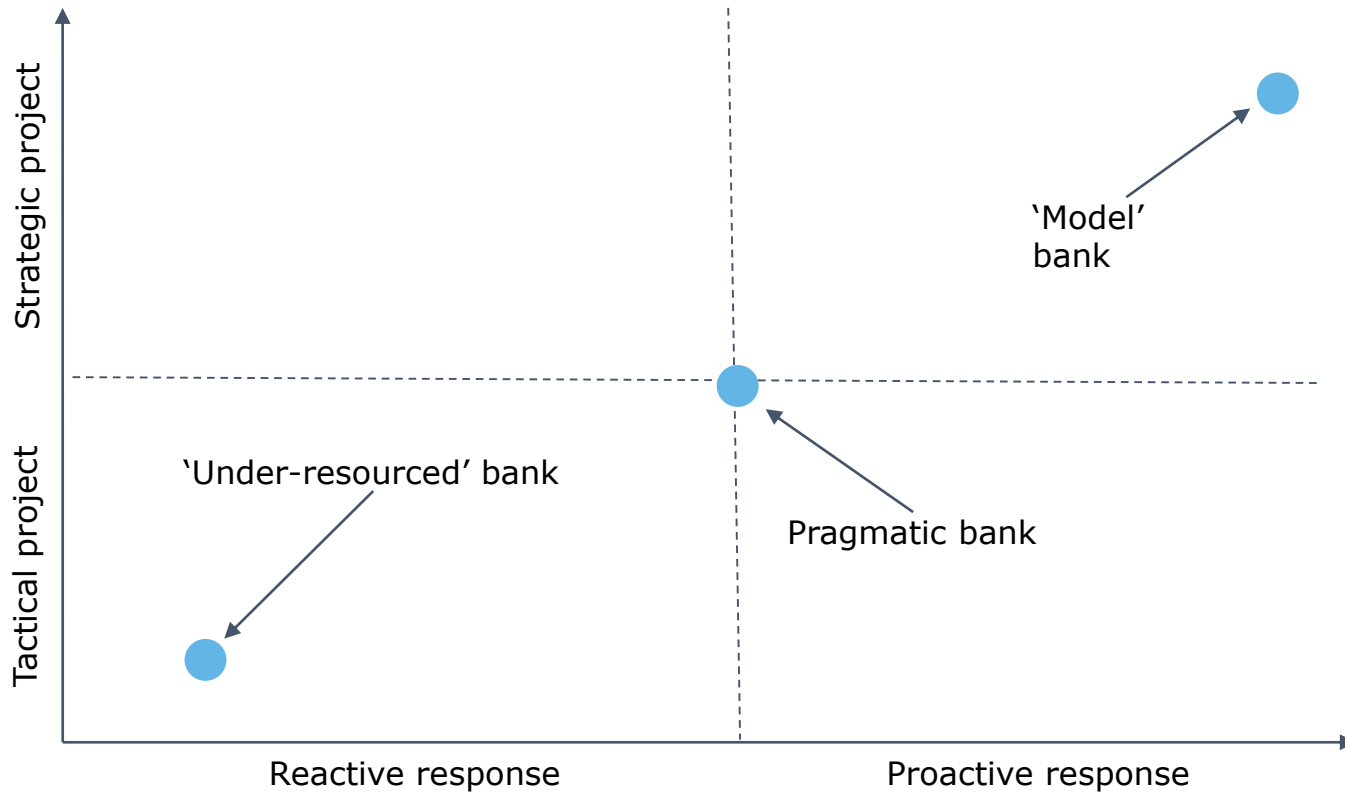
An ongoing process, rather than a point-in-time 'event'



Regulatory change transmission mechanism

Banks vary in terms of how they respond to regulatory change

- A response in top right-hand quadrant requires most resources, in terms of planning, implementation, management attention, etc.
- Centre reflects a balance between regulatory change and competing priorities.
- Bottom left quadrant represents overburdened, under-resourced banks.



Regulatory change transmission mechanism

How much do we really know?

- Little work has been done to examine the *practical complexities* of the new regulatory framework.
- Variety of methodological issues limit the real-world insights available from existing attempts at modelling of impacts.

"...how banks take, measure and control risks tends to be much harder to observe than some other aspects of banking.

[...] banks appear to have improved their risk governance and risk management practices since the crisis, although further progress is often needed to meet supervisory expectations. **It can be difficult to disentangle the drivers of improvements: while many reflect regulatory and supervisory changes, banks have also been adjusting as a result of their crisis experience and market pressure.**"

CGFS, 2018

"In many cases, research connects regulatory changes (e.g. higher capital ratios) to relevant indicators capturing resilience and terms of financing (e.g. changes in risk indicators, spreads, or cost of lending) **rather than broader G20 objectives as such** (e.g. increased financial stability and sustainable economic growth). [...] The higher capital and liquidity requirements under Basel III intend to "improve the banking sector's ability to absorb shocks arising from financial and economic stress, whatever the source". **Evaluations [of Basel III] have focused mainly on the effects of changes in capital requirements, and lesser on liquidity regulation as well as on analysis of combined effects of reforms...**"

FSB, 2017

"...banks **may not respond to regulatory requirements in the manner assumed in many models** and [...] we should be cautious about any conclusions drawn from models that ignore these issues."

BCBS, 2016

Questions

Food for thought

Optimisation

- Do we understand what 'optimisation' means in the context of an increasingly complex and ever-changing regulatory environment?

Practicalities

- Does the reality of how implementation occurs in practice affect our assumptions about what the 'optimal' regulatory framework looks like?

Incentives

- Do we sufficiently understand the business model and business strategy incentives created by the current regulatory regime?



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