

Fundamental Review of the Trading Book –

Is your bank prepared?



New banking regulations are piling up, and banks are struggling to make strategy calls

For example, as of April 2015, J.P. Morgan had more than 950 people working on just four strands of regulation that include over 750 distinct requirements.

Regulatory requirements with major impacts for J.P. Morgan

- 1) the leverage ratio
- 2) rules on global systemically important banks
- 3) FRTB - new trading book reforms
- 4) CCAR - US regulators' annual stress tests

“That is 27 different capital ratios, with 225 models built recently. It doesn't count liquidity, which is another 400 people. And then if you look at derivatives, with 99 proposed and final regulations in the US and 237 final articles in the EU, we have more than 3,150 pages of regulation affecting this market and more than 700 people devoted to understanding and interpreting those.”¹

—Debbie Toennies, head of regulatory affairs
for the corporate and investment bank at J.P. Morgan

¹ “Trading book fears grow as rules enter home straight,” Risk.net, April 2015,
<http://www.workcast.com/?pak=7649850860535916&cpak=9408561048987496#>



Banks are being forced to dedicate large teams to work out the impact.

On FRTB alone, J.P. Morgan has dedicated over 100 people to work out the impacts at a granular level.

For FRTB, J.P. Morgan looked at the capital requirements on a desk-by-desk basis, using the same definition of trading desks it is using for the Volcker rule's ban on proprietary trading.

“We ran it at the Volcker desk level, and that was so we could start to think about decision-making under the FRTB... We wanted to see—not just at the highest level—what these numbers looked like, pushing it down to where we make decisions, so at the Volcker desk level, or the business level or the asset class level.”¹

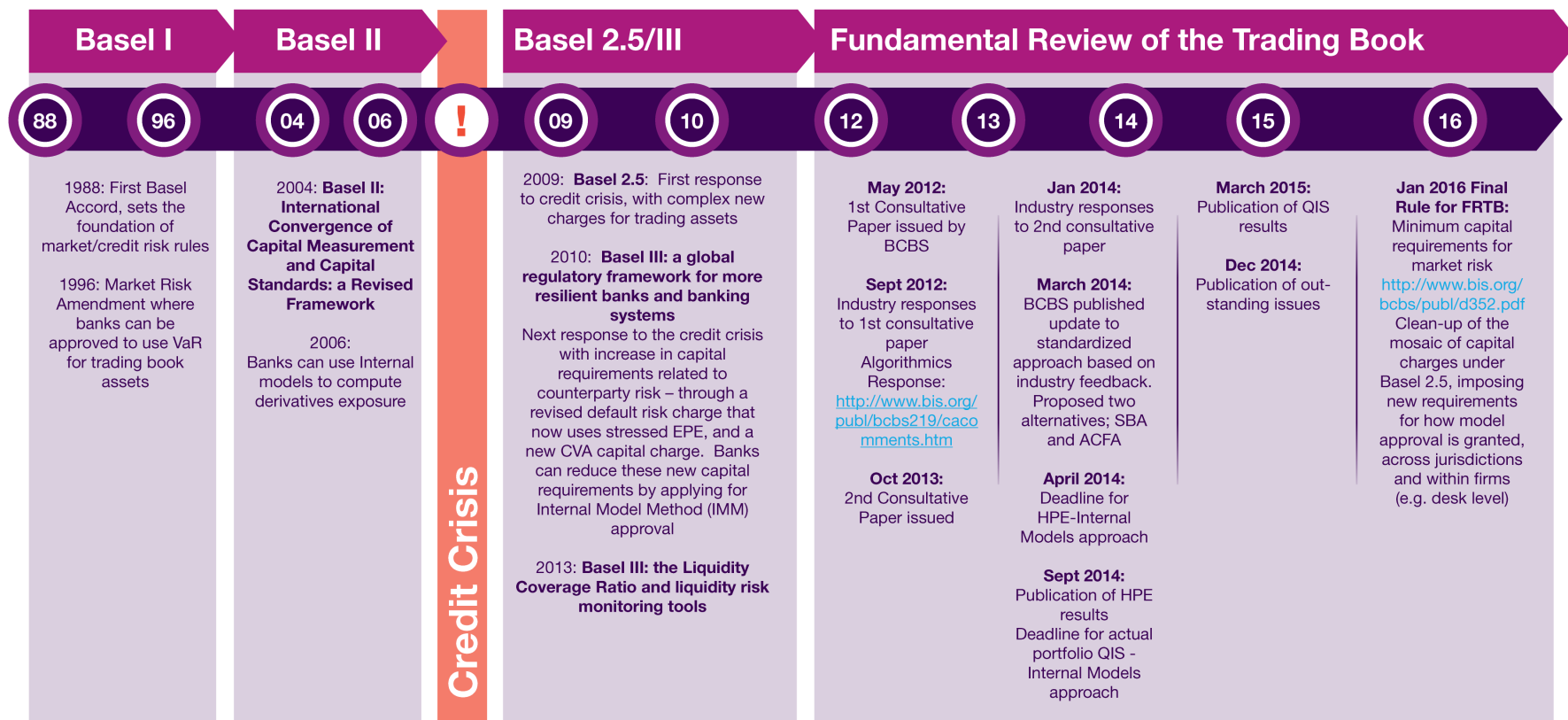
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FRTB is the latest reform to the global regulatory framework for banks which began over 25 years ago, as dictated by the Basel Committee on Banking Supervision (BCBS).

Regulation of Trading book capital—a brief history



The final rule for 'FRTB – Minimum capital requirements for market risk was released in January 2016

2019 is the deadline for banks to implement the final rules. For many banks, this means work should start now.

Minimum capital requirements for market risk

The Basel Committee has agreed to the following time-table for the implementation of the revised market risk framework:

1 January 2019: Deadline for revised market risk framework to be implemented as final rules under domestic legislation.

31 December 2019: Deadline for regulatory reporting by banks based on the revised market risk framework under the revised standardized approach or internal models approach, with use of the latter subject to the approval of the national authorities

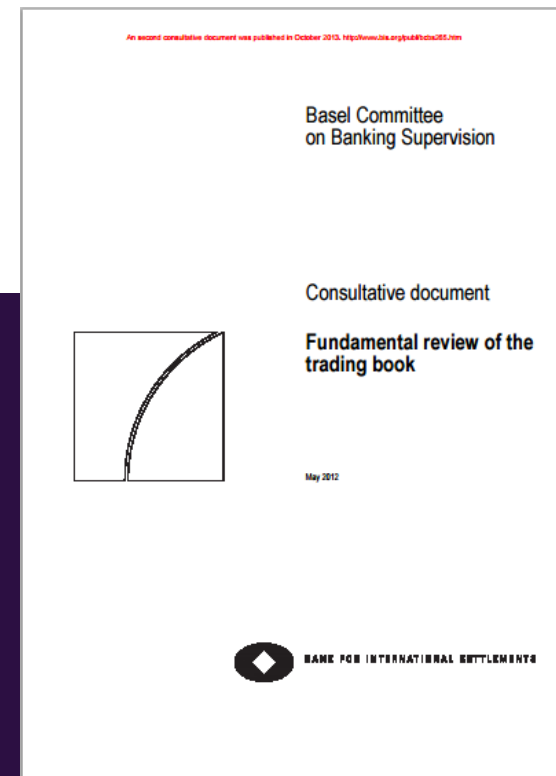


The banking industry anticipates significant operational challenges when implementing changes to comply with FRTB requirements.

Outstanding issues: The industry has voiced strong objections to FRTB, citing the operational challenges of implementing the proposals, and expected increases in regulatory capital requirements

“The Committee has reviewed the [comments received](#), including feedback provided in the course of a hypothetical [portfolio exercise](#) as well as the results of a comprehensive Quantitative Impact Study (QIS) that was conducted to assess the proposed trading book framework. In particular, **the Committee notes the concerns expressed about the implementation challenges posed** by certain elements of the new framework.”¹

Fundamental review of the trading book: outstanding issues—
consultative document, Dec 2014



¹ “Fundamental review of the trading book: outstanding issues - consultative document,” BCBS, Dec 2014, <http://www.bis.org/bcbs/publ/d305.htm>



Basel FRTB represents a profound change in how banks measure market risk within the trading book—where new requirements for additional analytics, more detailed reporting and increased governance are expected to cause severe operational strains for banks big and small.

New FRTB requirements and the impacts on banks

Increase in computation and reporting

- New reporting requirements at greater detail and higher frequency

New risk measures

- Introduce Expected Shortfall as the average beyond the 97.5th percentile
- Additional leverage ratio measure
- New incremental default risk model (IDR) to resemble banking book model

Desk level internal model approval

- Model accreditation at the desk level
- Tighter controls over accreditation—backtesting & P/L analysis

Internal models + New Standardized

- Requirement to compute Standardized approach for comparison purposes
- For both internal model and standardized approaches, models must be calibrated to period of stress for the bank's portfolio

Increased operational burdens & costs

More constraints on business strategy

Increase in regulatory capital

Trading / Banking book boundary

- Restrictions on movement between banking book and trading book
- Introduce interest rate and credit spread risk to banking book capital

Liquidity horizons for market risk

- Introduces different liquidity horizons for different risk factors

Less diversification benefits

- Restrictions on recognition of diversification across risk factors

Standardized “floor” on reg. cap

- Standardized approach as a floor on capital, use as default model if no accreditation
- Structured credit products to be treated via standard method

Most banks will need to rethink their risk infrastructure due to FRTB.

The new standardized approach model is one example of additional analytics required under FRTB.

Larger banks worry about their capacity to support the standardized approach in addition to their internal models.

Smaller banks who don't have the analytics infrastructure to support an internal model approval worry that the standardized approach is approaching a level of complexity equivalent to internal models.¹

“During the last QIS, we had more difficulty calculating the standardized approach than the internal model approach. Although some of these issues have been corrected in the most recent consultation paper, the intention was to create a very simple rule-based framework that banks can use as a replacement for the current standard approach. For a simplified rule, it is still burdensome to calculate.”

—Marc Van Balen, global head of trading risk management at ING in Amsterdam²



¹ “Speaking as one - Convergence in Basel standards will require banks to rethink their risk infrastructures,” IBM Smarter Risk journal, June 2015,

<http://ibm.biz/spkng-as-one>

² “Fundamentally Uncertain”, Risk.net, March 2015, <http://www.workcast.com/?pak=5035679922566500&cpak=9408561048987496>

Act now to prepare for the impacts of FRTB.

Banks must reform their business operations to cope with the new *Minimum capital requirements for market risk* and its impacts such as the new treatment of liquidity risk, the complexity of the standardized approach, and the rise in regulatory capital.

“The complete set of FRTB proposals represent an ambitious desire from regulators to ‘get it right’ and go well beyond revisions to the standardized and the models-based approaches.

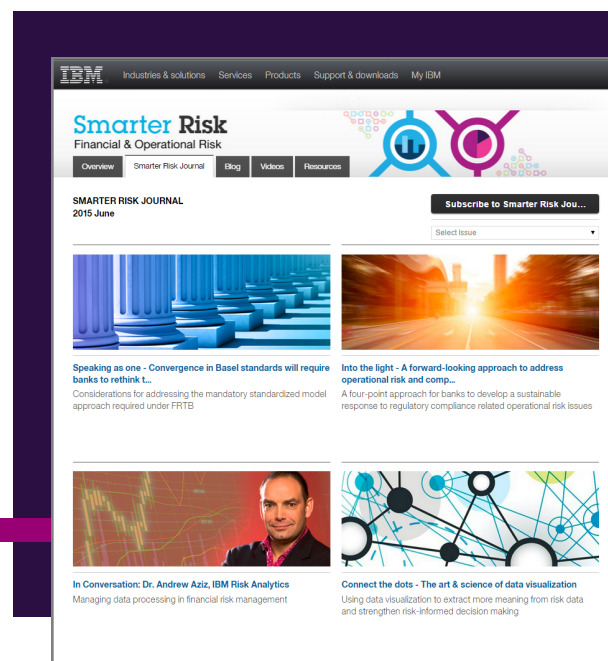
“When the impacts of the various FRTB proposals are analyzed together, it is easy to imagine scenarios that would place an **overwhelming burden** on the current infrastructures of many banks.”

¹ “Speaking as one - Convergence in Basel standards will require banks to rethink their risk infrastructures,” IBM Smarter Risk journal, June 2015, <http://ibm.biz/spkng-as-one>



There will be no avoiding the impact of FRTB. Get ahead of it.

“For example, proposed new requirements to incorporate varying liquidity horizons in the Expected Shortfall (ES) calculation, when combined with the requirement to minimize correlation benefits between asset classes, could potentially require a staggering 63 ES simulations per trading desk—and FRTB also proposes that banks conduct additional desk-level model assessments to attain and maintain internal models approval.”¹

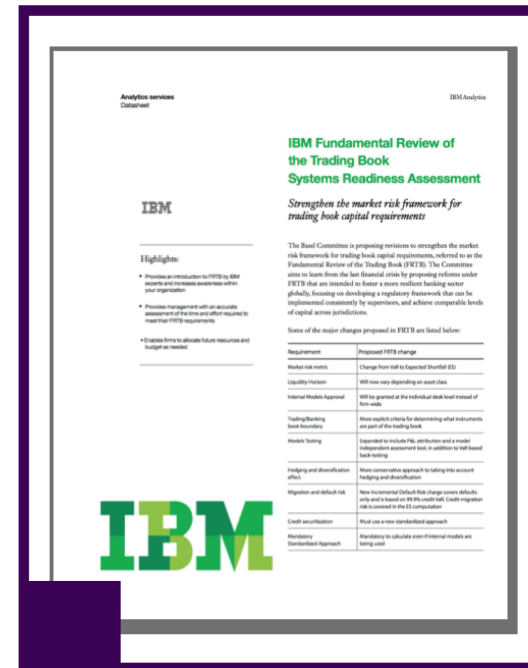


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Contact IBM to get an accurate assessment of the time and effort required to meet FRTB requirements

IBM is helping clients with getting started on meeting the demands of FRTB. Taking a considered approach to cost-effectively meeting multiple requirements means taking time to plan for success.

Meeting the demands from the Fundamental Review of the Trading Book requires redesigning risk systems at a fundamental level. Banks which take the path of rethinking their risk infrastructure will be able to also address the requirements of Basel's BCBS 239 Principles for effective Risk Data Aggregation and Risk Reporting.



FRTB Readiness Assessment
<http://ibm.biz/FRTB-readiness>

Learn how other banks are preparing for FRTB

Fundamentally challenging – how banks are getting to grips with the Fundamental Review of the Trading Book:

An FRTB panel discussion that covers

- How big an impact will the Fundamental review of the trading book (FRTB) have? What types of bank will be most affected?
- Should banks expect an increase in capital requirements? What is the source of the increase, and which businesses will be hit? Is the advantage of capital modeling being eroded?
- How to avoid capital volatility? Modeling approval will be assessed at the desk level, and standardized approaches will be applied to any desk that loses approval. Banks will also face more punitive capital requirements for risk factors that are deemed “non-Modell-able”. Making capital numbers predictable means addressing these issues – and a number of others.
- Which performance indicators will emerge as the keys to managing a trading business?
- How are banks addressing the new data management and reporting challenges?

[View the on-demand
webinar](http://www.workcast.com/register?pak=3046982852045770&referrer=ibm)

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