

Model Risk Management Principles for stress testing

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Model Risk Management – stress testing

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Introduction

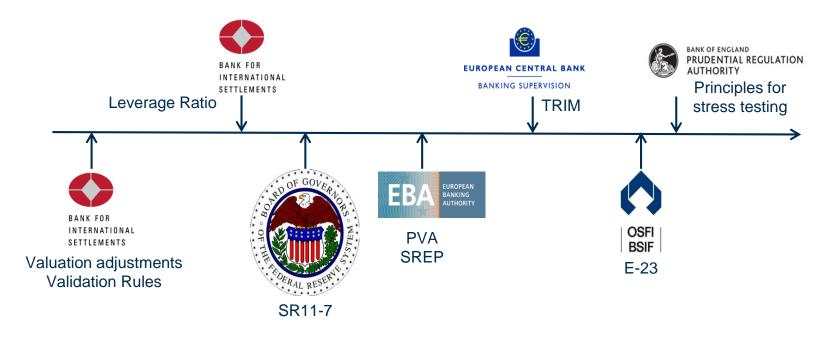
- Rapid increase in quantity of data and computing power lead to improvements in risk modelling and the use of automatic decision making.
- Data are useful information to support decisions, but there is no guarantee that the outcomes are correct.
- While the use of models undoubtedly improve the way decisions are made, it comes at a potential cost ...

the risk of an economic loss due to the misuse or incorrect use of model results for strategic business decisions.



Model Risk – regulatory responses

- Historically, model risk led to significant losses:
 - The London whale
 - Scholes & Merton's hedge fund
 - The 2007 subprime crisis





Importance of managing model risk for stress testing

- Stress testing is an important risk management & supervisory tool
- Banks
 - Balance sheet vulnerabilities
 - Strategic business decisions
 - Internal buffers and profit distributions
- Regulators
 - Test resilience of the system
 - Micro and macro-prudential requirements



Review of banks' stress testing frameworks

- Managing of stress test model risk lags
 - BAU models
 - Improvements in other areas of stress testing frameworks
- The better performing banks
 - Model development standards
 - Clear & well-documented frameworks / policies
 - Robust inventories & strong independent review capabilities
- Challenges
 - Scope and coverage
 - Documentation
 - Engagement with senior management and board



SS3/18 'Model Risk Management Principles for stress testing'

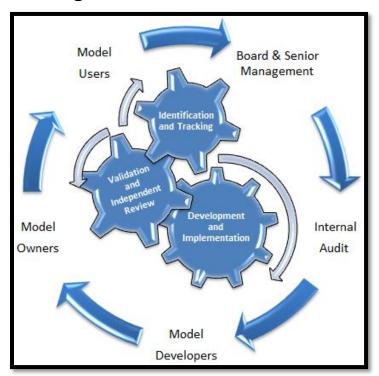
Model risk management principles for stress testing

- Principle 1 Banks have an established definition of a model and maintain a model inventory.
- Principle 2 Banks have implemented an effective governance framework,
 policies, procedures and controls to manage their model risk.
- Principle 3 Banks have implemented a robust model development and implementation process, and ensure appropriate use of models.
- Principle 4 Banks undertake appropriate model validation and independent review activities to ensure sound model performance and greater understanding of model uncertainties.



Concluding remarks

An effective model risk management framework is ... an integrated and iterative process supported by a strong governance culture





We should keep challenging ourselves

- How do you present model risk to your board?
- Is there value in formalising the principles for all models?
- How do you quantify the impact of model risk?

