

Status update on TRIM

Overview of outcome of general topics review and credit risk on-site investigations

European Central Bank (ECB)

www.managementsolutions.com

Index

Introduction

Executive summary

Detail

Next steps



Introduction

In June 2018, the ECB published some aggregated information on the first outcomes of its targeted review of internal models (TRIM) investigations including an overview of outcome of general topics review and the preliminary results of credit risk on-site investigations

Introduction

In February 2017, the ECB issued a **Guide to the TRIM** addressed to the management of significant institutions, which sets out its view on the appropriate supervisory practices and spells out how the ECB intends to interpret the relevant EU law on internal models and on general model governance topics. The Guide to the TRIM covers four main chapters: general topics, credit risk, market risk, and counterparty credit risk.

According to this Guide, the ECB launched a **SSM-wide multi-year project (2016-2019)** which aims to assess whether the internal models currently used by significant institutions to calculate their Pillar 1 own fund requirements comply with the applicable regulation, and whether the risk estimates they produce are reliable and comparable.

To that end, a sequential approach was implemented: i) a **review** of how the institutions implemented the **non-model-specific provisions** contained in the CRR was completed by the end of 2017; and ii) **on-site investigations** are being performed to review the compliance of selected models with the CRR requirements (all internal models used for market risk and counterparty credit risk, as well as the most material and critical models for credit risk). In 2017, 92 on-site investigations were launched and by the end of June 2018, a total of 115 TRIM investigations across 12 countries had taken.

- In this context, the ECB published in June 2018 a Letter on the status update on TRIM, addressed to banks, which covered an
 overview of the outcome of general topics review and interim update on preliminary results of credit risk on-site investigations. In
 particular, the status includes:
 - Outcome of the general topics review, including the corresponding decisions and follow-up letters sent to the institutions concerned.
 - Outcome of credit risk investigations, which is a preliminary update on the outcomes that have emerged so far from the TRIM on-site investigations.

This Technical Note summarises the outcomes included in the ECB Status update on TRIM.



Executive summary

This ECB Letter on the status update on TRIM provides an overview of the outcome of the general topics review as well as a preliminary update on the outcomes that have emerged so far from the TRIM on-site investigations on credit risk

Evenutive evenences

Executive summary				
Scope of application	Regulatory context	Next steps		
• Banks	 Directive 2013/36/EU on Capital Requirements (CRD IV) – Jun.13 Regulation (EU) No 575/2013 on Capital Requirements (CRR) – Jun.13 EBA Guidelines on estimation of IRB parameters – Nov.17 	• TRIM on-site investigations on low-default portfolios models are currently planned to start by the end of the 3Q18 and to run through 2019 .		

Main content

General topics review

- **Scope**: review of principles overarching different risk types and internal models framework.
- **Calendar**: review carried out between 4Q16-1Q17.
- Outcomes:
 - Certain shortcomings in its general topics' review on, for example, the absence of a model change policy at the institution, or the lack of evidence of annual back-testing for some rating systems.
 - Additional potential misalignments regarding the implementation of a model risk management framework, applications of the IRB approach and monitoring of PPU¹ provisions, scope, etc.

Credit risk investigations

- **Scope**: credit risk models related to the exposure classes Retail and Corporate SME.
- **Calendar**: a total of 115 TRIM investigations across 12 countries were realised by the end of June 2018.
- Outcomes:
 - Findings identified for PD, mainly related with the long-run average and risk differentiation.
 - Findings identified for LGD, mainly related with the calculation of realised LGD and the estimation of long-run average LGD.

Detail General topics

Anagement Solutions Makina thinas happen

The ECB found certain shortcomings in its general topics' review on, for example, the absence of a model change policy at the institution, or lack of evidence of annual back-testing for some rating systems

Outcome of the general topics review (1/3)



Detail General topics

Further, the ECB found additional potential misalignments regarding the implementation of a model risk management framework, applications of the IRB approach and monitoring of PPU provisions,...

Outcome of the general topics review (2/3)



- The supervisory follow-up to the general topics review was two-fold (continue):
 - **Table 2:** additional potential misalignments with further aspects of the regulatory framework were communicated to the institutions via follow-up letters. Institutions were asked to respond to these letters by providing the Joint Supervisory Teams (JSTs) with written feedback on the current status of each issue.

	N٥	Description of issues	% of institutions affected ¹
ral	1	 Implementation of a model risk management framework Despite some measurement of model risk and partial controls in place, practices not formalised/documented Absence of model risk management (steering and mitigation) Model risk not identified as a material risk by the institution (lack of awareness) 	31% 27% 13%
sues in	2	 Application of the IRB approach and monitoring of PPU provisions Absence of monitoring of the PPU conditions Absence of clear criteria for the decision of the application of the IRB approach 	58% 31%
e)	3	 Decision-making responsibilities and internal reporting Level of detail in the reporting is not appropriate Management body (or a designated committee thereof) does not approve all risk management policies 	36% 25%
	4	Organisation of the internal validation functionDeficiencies in the validation policy and procedures	7%

Table 2- Generaltopics review:examples of issuescommunicated inthe follow-upletters(non-exhaustive)

MGC

Detail General topics

...scope and frequency of the audit review of the rating systems, non-rated exposures and outdated ratings, and change policy and re-rating process

Outcome of the general topics review (3/3)



- The supervisory follow-up to the general topics review was two-fold (continue):
 - **Table 2:** additional potential misalignments with further aspects of the regulatory framework were communicated to the institutions via follow-up letters. Institutions were asked to respond to these letters by providing the Joint Supervisory Teams (JSTs) with written feedback on the current status of each issue.

	N٥	Description of issues	% of institutions affected ¹
l les l	5	 Scope and frequency of the audit review of the rating systems Lack of resources to allow a relevant assessment of the IRB requirements Some of the rating systems not reviewed by internal audit Certain aspects of the rating systems not reviewed regularly 	36% 31% 22%
	6	 Non-rated exposures and outdated ratings Non-rated exposures or exposures with outdated ratings not monitored by the institution No specific prudential treatment for non-rated exposures, or exposures with outdated ratings, or such exposures treated under the standardised approach 	25% 20%
	7	 Change policy and re-rating process Process for the re-rating and implementation of the new model not formalised Model change policy missing key elements such as responsibilities, impact assessment procedures or process for the classification of the changes 	62% 15%



Detail Credit risk

Regarding the outcomes from the TRIM on-site investigations focusing on credit risk, the ECB provides an overview of the findings identified for PD, such as those related to the long-run average and risk differentiation...

Outcome of credit risk investigations (1/2)



enough for a horizontal analysis at this stage.



© Management Solutions 2017. All rights reserved Page 8

Detail Credit risk

...and of the findings identified for LGD, such as those related to the calculation of realised LGD and the estimation of long-run average LGD

Outcome of credit risk investigations (2/2)

LGD parameter

- The highest number of findings related to the **calculation of realised LGD**, which typically involve one or more of the following potential issues:
 - The use of an inappropriate discount rate (e.g. risk-free rate, or contractual interest rate) and the treatment of multiple defaults (e.g. lack of an appropriate treatment to account for possible dependency among multiple defaults).
 - Specific aspects of the **calculation** (e.g. lack of an appropriate treatment of restructuring cases, or insufficient consideration of indirect costs) were identified during the intensive walk-throughs performed by the assessment teams during the on-site investigations.
- In addition, a significant share of findings was related to the **estimation of long-run average LGD**, in particular the treatment of incomplete work-outs, the downturn adjustment and the treatment of defaulted assets (i.e. models for expected loss best estimate and LGD in default)

Ca	alculation of realised LGD		
			100%
Ris	sk differentiation		87%
Lo	ng-run average LGD		96%
	ownturn adjustment		91%
LGD Mo	C		75%
EL	- _{BE} and LGD in-default		85%
Fra	amework for review of estimates		80%
То	otal LGD	(9)	(4)

Less severe More severe findings findings

Index

Introduction

Executive summary

Detail





Next steps

TRIM on-site investigations on low-default portfolio models are currently planned to start by the end of 3Q18 and to run through 2019

Next steps



• With respect to TRIM on-site investigations, the next information letter will provide an update on the upcoming investigations of **low-default portfolios models**. In this regard, TRIM on-site investigations on these models are currently planned to start by the **end of the third quarter of 2018** and to run **through 2019**.

