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Banking Supervision Department Policy and Regulation Division

Jerusalem, August 21, 2024

FAQ 525

Attn:

Banking Corporations and Payment Service Providers with Prudential Importance

Re: Frequently Asked Questions about the Implementation of Proper Conduct of Banking Business Directive no. 369, "Management of Model Risk"

1. This file gathers various stances on the application of Proper Conduct of Banking Business Directive no. 369, "Management of Model Risk." It is not an exhaustive list of the Banking Supervision Department's stances on issues that arose as the Directive was being implemented or of other issues that may come up in applying the Directive.

2. The answers presented in this file reflect the Supervisor of Banks' stance and binding interpretation of the Directive. In the future, the possibility of incorporating some of the answers into the Directive will be considered.

3. The date on which each answer was given or most recently updated appears next to the answer.

4. This document is posted on the Bank of Israel website and updated by the Bank of Israel from time to time.

Respectfully,

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Deputy Supervisor of Banks

cc. Supervisor of Banks

Frequently Asked Questions—Management of Model Risk

		Date of
		update
Chapter B—	Model and Model Risks	
Question 1:	According to Section 9 of the Directive, the term "model" denotes a	
	quantitative method that applies statistical, economic, financial, or	
	mathematical theories, techniques, and assumptions to process input	
	data into output. That is, the term "model" is not limited solely to	
	cases which the output is essentially quantitative. Given this broad	
	definition, does it make any quantitative method that processes data	
	into output a model?	
Answer:	The definition that appears in the Directive reflects an up-to-date	August 21,
	conceptualization of the way a "model" should be defined in banks'	2024
	management of model risks. The definition pertains mainly to a	
	quantitative method and, therefore, the scope of the Directive also	
	includes tools that deliver qualitative outcomes (for example, but not	
	limited to, systems that provide recommendations in areas of consumer	
	services and AI tools that give qualitative output). Thus, the definition	
	ensures that these tools, too, will be managed under the principles of the	
	directive. This is done in view of the growing complexity of the tools,	
	including tools that give qualitative outcomes, and their use. However,	
	not every computation, processing, or quantitative tool is a model. The	
	Banking corporation should specify in its policies when a quantitative	
	method meets its definition of a model and when a calculation, or other	
	calculation tool, is not a model, and should subject its policy on this	
	matter to periodic review.	
Question 2:	In Section 12, what tools may exist for the evaluation of model risks?	
Answer:	As a rule, banking corporation should use accepted practices for the	August 21,
	detection and evaluation of model risks.	2024
	Model-risk evaluation includes, among other things, classification and	
	mapping of models in accordance with materiality and risk tiering.	

	actions that are meant to make sure the models function as expected.	2024			
Answer:	Validation, as stated in the Directive, is the totality of processes and	August 21,			
Question 1:	Is model validation a one-off process or an ongoing one?				
	Chapter E—Model Validation				
	model inventory.				
	discontinued in the course of the previous three years be retained in its				
	provided, at the very least, that information about models that were				
	should retain information even though they have been discontinued,	2024			
Answer:	A banking corporation shall define in its policy the models for which it	August 21,			
	that were recently used and discontinued" mean?				
Question 1:	In Section 30 (Model Inventory), what does the expression "[models]				
Chapter C—	Corporate Governance, Policies, and Controls				
	of the model. See also Sections 56 and 57 of the Directive in this context.				
	report this and bring it to the knowledge of senior management and users				
	stated in the Directive, whenever conservatism is used, it is important to				
	with model risk, for example, by adjusting the outcomes of the model. As				
	be "correct." However, conservatism may be used as a tool for coping				
	a model or the estimates that it generates. That is to say, the model should	2024			
Answer:	Conservatism should not be applied in a way that impairs the accuracy of	August 21,			
Question 3:	In Section 12, what is the correct use of conservatism in a model?				
	other.				
	models affected or, in other cases, mapping of models that nourish each				
	(assumptions, data, methodology, etc.) and, in a second vector, the				
	links among models—for example, a common element in one vector				
	In evaluating aggregate model risk, one of the useful tools is mapping of				
	extent of potential damage in case of model error or misuse, and so on.				
	use, status of treatment of defects, financial impact of model outcomes,				
	compliance with requisite validation frequency, number of bypasses in				
	inter alia, scorecard scores, findings of the validation process,				
	Relevant parameters for quantification of model risk level may include,				
	risk-management measures (e.g., validation frequency) for each tier.				
	of decision trees or scorecards and may be accompanied by establishing				
	Classification of models by tiering may take place, for example, by means				

	Model validation includes both initial validation, conducted before the	
	model is placed in use, and ongoing validation operations, which are	
	included in Chapter E of the Directive.	
	Ongoing validation operations include actions taken on a current basis	
	(e.g., ongoing monitoring) and those likely to be carried out	
	periodically. Banking corporations should determine the mix of ongoing	
	and periodic validation elements for each model in accordance with the	
	nature and riskiness of the model. Banking corporations should also set	
	a maximum amount of time for each model, during which all ongoing	
	validation operations (of relevance to the model in question) should be	
	performed.	
	The validation operations themselves could signal the need for further	
	validation operations, updates of ongoing validation operations, etc.	
	Without derogating from the foregoing, insofar as the model in question	
	is material to the banking corporation, it is recommended that a full and	
	comprehensive validation of the model be performed in a manner	
	similar to the initial validation, at a frequency that the banking	
	corporation shall determine.	
Question 2	Which additional mechanisms should be used in a supplier model	
	validation process?	
Answer:	As indicated in Proper Conduct of Banking Business Directive no. 359A,	August 21,
	a banking corporation is expected to work with model suppliers that	2024
	comply with accepted standards in the field, where relevant.	
	In addition, and in the context of supplier model validation as required	
	under Section 93, the banking corporation's agreement with the supplier	
	of the model should specify clearly which components of the model	
	"belong" to the banking corporation and which "belong" to the supplier.	
General		
Question 1:	Now that the model-risk management directive has been established,	
	how should the requirement in Section 15 of Proper Conduct of	
	Banking Business Directive no. 314—"Sound Credit Risk	
	Assessment and Valuation for Loans"—be interpreted for the	
	numbers of effective precedures for validation of availt pick	
	purpose of effective procedures for validation of credit-risk	

Answer:	The model-risk management directive is a "primary directive" for	August 21,
	model-risk management. Emphases concerning model validation in	2024
	directives that relate to the management of a specific risk will remain in	
	effect alongside this directive, and such will be the case in reference to	
	Proper Conduct of Banking Business Directive no. 314 as well.	