BANCODE ESPAÑA Eurosistema

SESSION 3. THE EMERGENCE OF INTERNAL MODELS IN BANKING SUPERVISION: IMPLICATIONS FOR THE REGION

A BENCHMARKING MODEL

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DIRECTORATE GENERAL SUPERVISION - BANCO DE ESPAÑA



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Objective, approaches and challenges

Supervisory benchmarking approaches



Objective: The prompt **identification of outliers** for its subsequent analysis...

...by comparing the results of the IRB model of the portfolio under analysis with those obtained through either:

Direct comparison with peers

- External references (public LGDs, ECAI Ratings, ...).
- Results obtained for comparable portfolios previously analysed. This comparison is particularly useful for supervisors given their access to all entity's information under its jurisdiction, facilitating the execution of the benchmark.

The approach involves the following main challenges:

- Internal definitions may be heterogeneous (default, loss, segmentation,...).
- The identification of homogenous risk groups may not be straightforward.

Use of a reference model

- Using an alternative model to obtain benchmark results for that particular portfolio.
- In this case, it is specially valuable if a **supervisory model** is used.

The approach involves the following main challenges:

- Data limitations: Required inputs may not be readily available.
- Balance between sophistication (ability to capture idiosyncratic factors) and complexity (allowing feasible implementation)

In all cases, **identifying the reasons behind the differences requires an in-depth knowledge** of the entity's **idiosyncrasies** and their **internal risk management policies and procedures** (admission policies, ongoing risk monitoring, recovery processes, etc.) as well as of the **methodological assumptions** behind each of the models and the appropriateness of the external references

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ECL measurement models vs IRB models

IFRS9 vs IRB

When comparing IRB models and those aligned with IFRS9 standards, their main core differences should be carefully taken into account

		IRB	Comparison	IFRS 9
	Objective	Unexpected losses	X	Expected losses
		Reasonably stable losses throughout the economic cycle (long-run)	×	Conditional loss - at the moment in the economic cycle (point-in-time)
		Conservative estimates		Unbiased estimates
	Regulation	Rule-based: CRR EBA RTS / EBA Guidelines ECB Guidelines	X	Principle-based
	Methodology	Closed calculation formula: only calculation of inputs is required	X	Open methodology
		Strict requirements (data and specifications)		
	Reference approach	Standardised Approach		N/A
	Floors	Floors to internal models own funds requirements		N/A

For IFRS9, Spain opted to create a Supervisory model given the greater flexibility and potential variability in relation to ECL estimations

Alternative solutions for less complex banks/segments



Banco de España developed its own internal ECL model, which was then incorporated into the Accounting Circular with a two-fold objective:

- As an alternative solution to developing internal models. Particularly directed to those less complex entities based in principles of proportionality.
- ✓ As a **benchmark for supervisory review.** Facilitating comparison across entities and the identification of **outliers** when comparing internal estimations vs. alternative solutions.

The Supervisors' use of proportionate approaches within ECL accounting frameworks was contemplated by the Basel Committee:

"Consistent with the **Basel Core Principles**, the Committee recognizes that **supervisors may adopt a proportionate approach** with regard to the standards that supervisors impose on banks and the conduct of supervisors in the discharge of their own responsibilities. The use of properly designed proportionate approaches should not jeopardized the high-quality implementation of the ECL accounting frameworks; rather, their use should enable banks to adopt sound allowance methodologies commensurate with the size, complexity, structure, economic significance, risk profile and, more generally, all other relevant facts and circumstances of the bank and the group (if any) to which it belongs." (<u>GRAECL – paragraph 11</u>)

















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Key take-aways

- Benchmarking is one of the most powerful supervisory tools in the field of credit risk supervision.
- ✓ One possibility is the development of internal supervisory benchmarking models, however:
 - ✓ It is very conditioned to the availability of data.
 - ✓ It is resource-consuming.
 - It requires an adequate balance between its complexity and specification, i.e. being able to adapt to the idiosyncrasies of each entity/portfolio without greatly increasing the model's complexity.
- ✓ In any case...
 - ✓ It should be used with caution and with the objective of promptly identifying outliers.
 - ✓ Additional qualitative information and an in-depth knowledge of the entity is needed to adequately interpret results.



Thank you for your attention



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ANNEX



BANCO DE ESPAÑA: DIRECTORATE GENERAL SUPERVISION AND INTERNAL MODELS

Banco de España – Organisation Chart



BANCO DE ESPAÑA: DIRECTORATE GENERAL SUPERVISION AND INTERNAL MODELS

Internal Model's outlook in Spanish Entities

Significant Institutions in Spain

