

# EU RISK-FOCUSED FRAMEWORK OF INSURANCE SUPERVISION AROUND DATA AND MODELS

NAIC Third-Party Data and Models Task Force

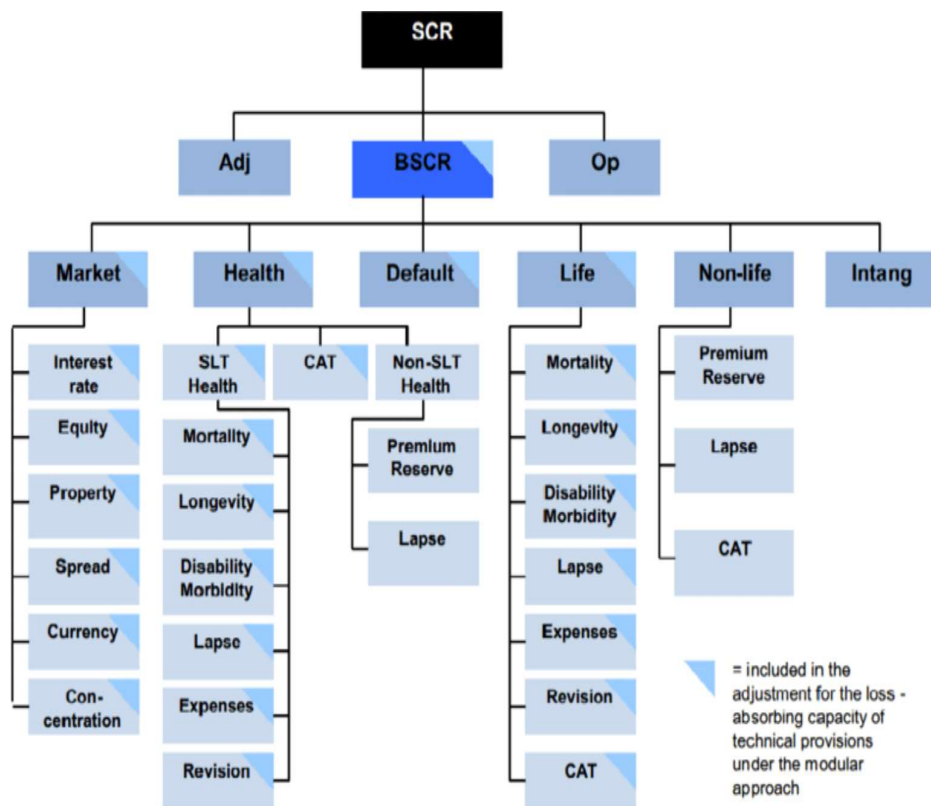
Christoph Hamer

11 September 2024

EIOPA REGULAR

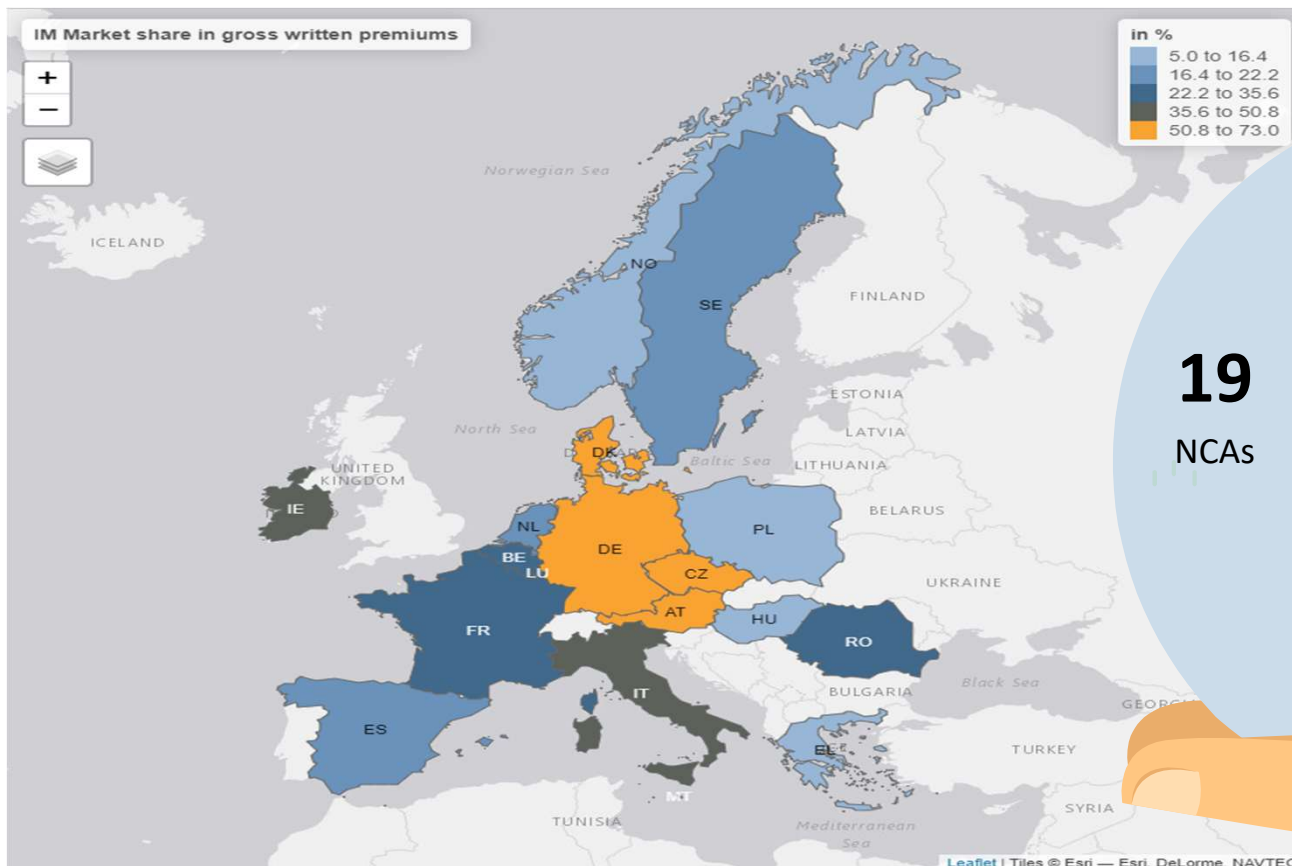


## SOLVENCY II FRAMEWORK AND PRUDENTIAL SUPERVISION

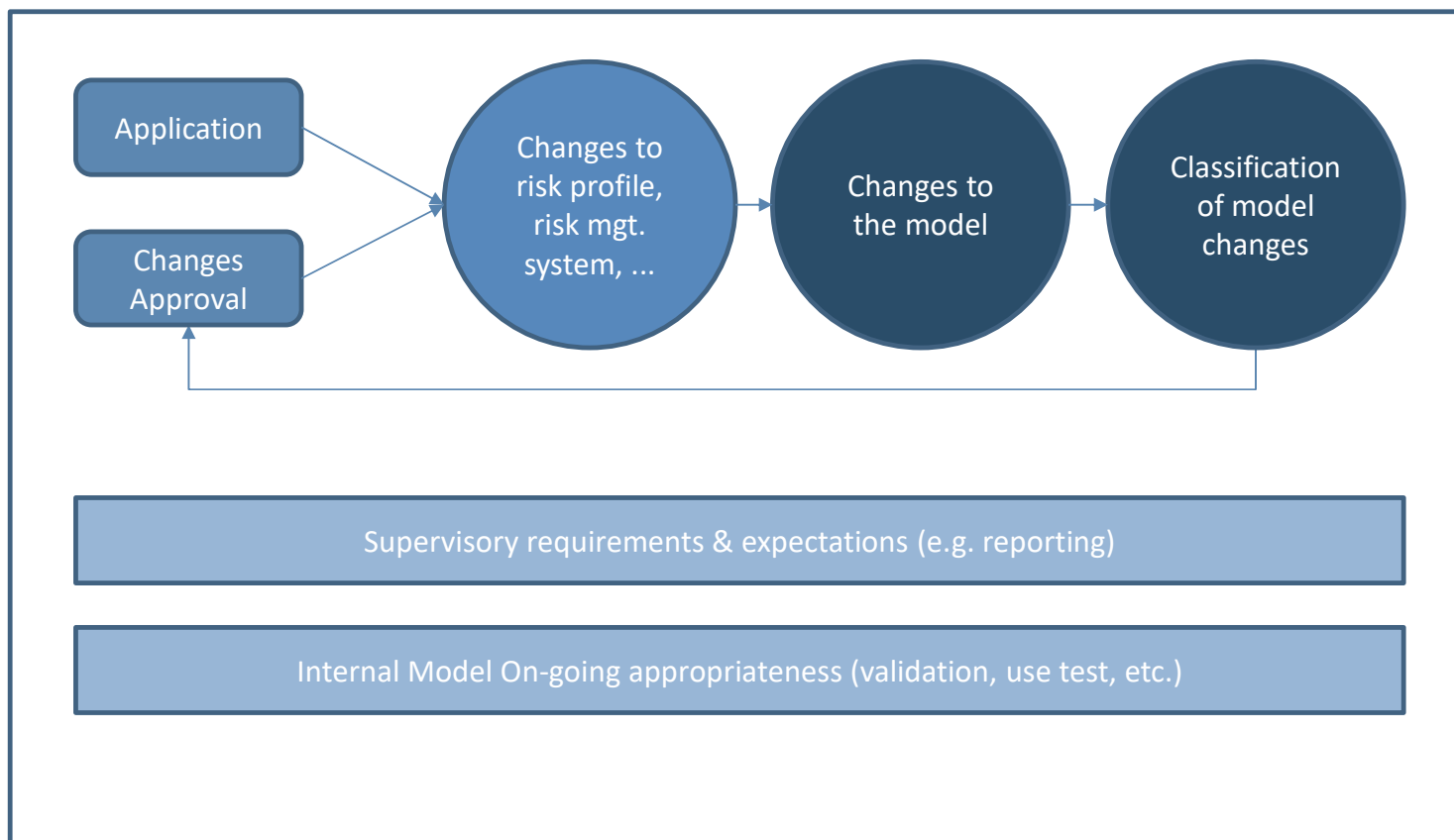


- To calculate their capital requirements, insurers can use a given **Standard Formula** or, alternatively, opt to use a so-called **Internal Model (IM)**, **subject to prior authorisation** by national supervisors (NCAs). Both approaches are subject to the same principles of Solvency II.
- National supervisors may only authorise Internal Models that fulfil **several legally defined requirements** with the purpose to ensure that the models are suitable for calculating risks adequately.
- Internal Model authorisations are issued concerned supervisors after consulting the college of supervisors. EIOPA is part of the colleges, provides **technical assistance** and has a **mediation** role in case of disagreement.
- The **use of models for prudential purposes varies** between Internal Models and standard formula.

# OVERVIEW ON THE INTERNAL MODEL MARKET



## SIMPLIFIED LIFE CYCLE AND ONGOING SUPERVISION OF AN INTERNAL MODEL



## CENTRE OF EXCELLENCE FOR CATASTROPHE MODELLING AND DATA

Expertise, studies, tools and data

In its capacity as a centre of excellence for catastrophe modelling and data, EIOPA is providing European supervisors and insurers with expertise, studies, tools and data to enable them to effectively assess, monitor and supervise these catastrophe risks.

The centre of excellence allows national and European public authorities to gain a common understanding of catastrophe risks, take preventive measures and address the insurance protection gap.

Lastly, it helps improve public awareness of risks related to catastrophes.

### Focus areas



Raise awareness about catastrophe risk

By organising public events and providing tools to enhance risk awareness and understanding of prevention measures



Bring an EU-wide perspective to catastrophe risk

By collecting EU-wide information and by providing advice



Facilitate knowledge sharing

By sharing expertise with supervisors and by facilitating exchange between supervisors and model providers



Enable open access to insurance data related to catastrophes

By facilitating access to more and better data



Foster better catastrophe risk assessment, adaptation measures and innovation

By promoting easy-to-use open-source models

## EUROPEAN (WIDE) ACTIVITIES

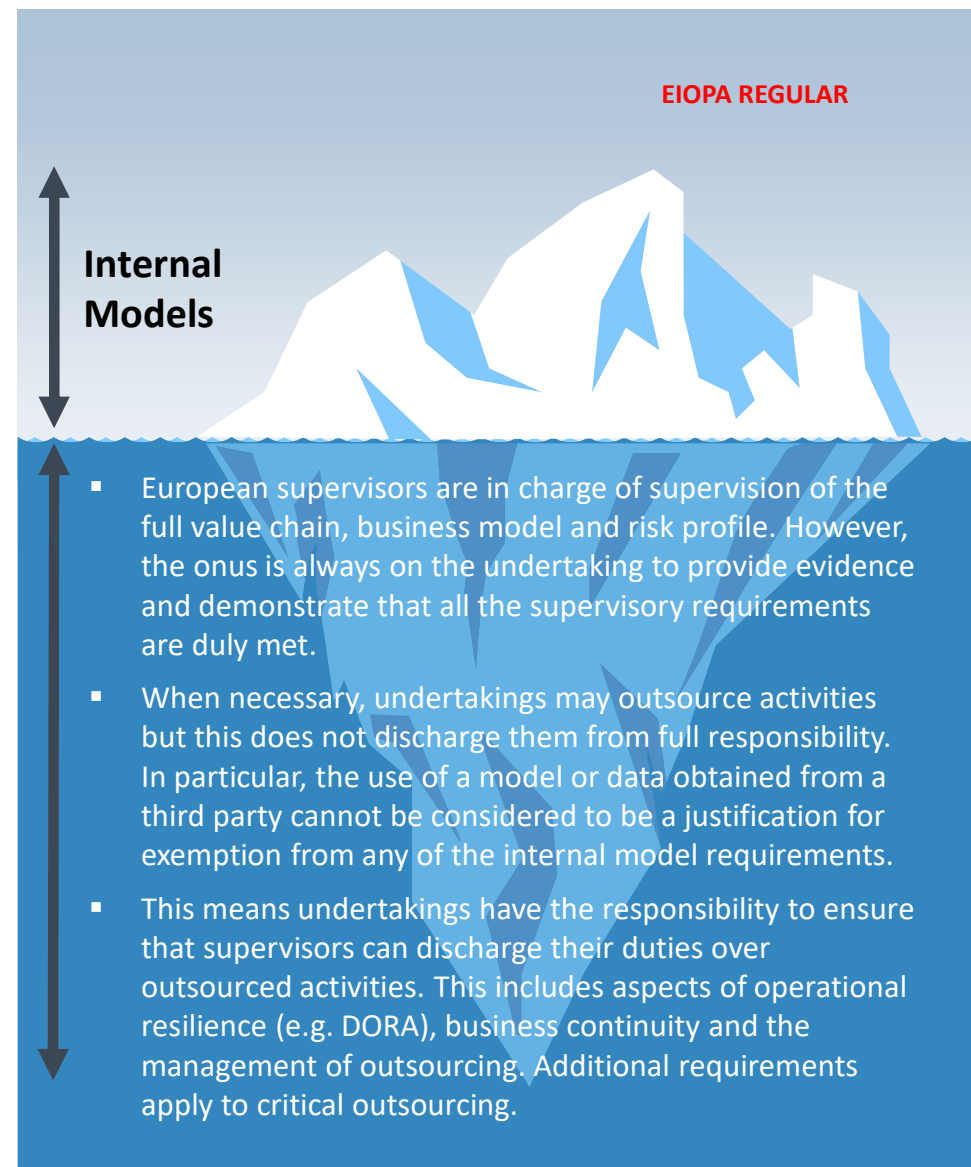
- In the area of Internal Models, EIOPA leads various initiatives (Non-exhaustive):
  - European wide **comparative studies** are a **joint effort of the European supervisory community** and promote a common supervisory culture and consistent supervisory practices across the European Union (EU) Member States and the European Economic Area (EEA) in order to **ensure a high, effective and consistent level of supervision** of internal models. These studies provide the supervisory community with an overview of the modelling approaches used in the EEA markets and tools relying on various indicators that support them in analysing and comparing internal model assumptions and outcomes. Supervisory Handbook (not public): Dedicated chapters developed for frontline supervisors on European level (continuous development).
  - **Expert networks on internal models (ENW4)**: Continuous exchange on supervisory topics relating to internal models and building of capacity.
  - Internal Model (IM) specific **country field visits**, gather IM best supervisory practices, provide EIOPA's expertise , and identify areas for improvements.
  - **Technical assistance** to support NCAs e.g. throughout the approval process (e.g. targeted training, good practices, expert opinions, benchmarking, etc.).
- EIOPA's different initiatives provided NCAs with essential transversal insights into supervised Internal Models and help to improve supervisory convergence. In particular, EIOPA's work has led to changes in Internal Models and recommendations are followed up by NCAs.



EIOPA study	Reports
<b>Market and Credit Risk Comparative Study (MCRCS)</b>	<a href="#">2022</a> <a href="#">2021</a> <a href="#">2020</a> <a href="#">2019</a> <a href="#">2018</a> <a href="#">2017</a>
<b>Non-Life Underwriting Risk Comparative Study in Internal Models (NLCS)</b>	<a href="#">2016</a> to <a href="#">2020</a>
<b>Study on Diversification in Internal Models</b>	<a href="#">2019</a>

## EXAMPLE FROM INTERNAL MODEL SUPERVISION: THIRD PARTIES AND THE USE OF VENDOR MODELS

- **Catastrophe model landscape:** Many internal models covering catastrophe risk use the intellectual property of cat model vendors to calculate, e.g., their capital requirement. In some cases, they obtained direct licenses with vendor model providers and developed models to fit their respective risk profile. In other cases, undertakings procured some aspects of the calculations (e.g. catastrophe scenario data to calibrate hazard models) as a service from third parties (e.g. brokers).
- **SII approach:** Brokers and model vendor providers are part of the outsourcing chain as critical outsourcing. Therefore, supervisory powers extend to the outsourcing of this kind (e.g. with the rights for supervisors of onsite inspections all along the chain outsourcing links and the requirement of exit plans for an orderly oversight of prudential supervision).



**Thank you!**