



Actuarial and Risk Modelling

Building modelling solutions and improving your modelling process

A fresh take on risk and valuation

Debias your risk assessment models and make them forward-looking

ACTUARIAL MODELS

SOFTWARE PARTNERSHIPS

CONTROLS AND PROCESS REVIEW

MODEL VALIDATION

IFRS 17 MODELLING

TRAINING AND UPSKILLING

Actuarial models are simplified representations of the real world, used to help companies understand the range of possible outcomes. The two main types are deterministic and stochastic models. Both use estimates of probabilities of future events to predict future outcomes. Stochastic models allow for randomness and give a range of possible outcomes but require more computational power.

Finalyse combines a technical perspective with a practical approach to risk modelling, helping insurers manage this balancing act along each step of the process.



For more information, visit www.finalyse.com/actuarial-and-risk-modelling-for-insurance

Benefits

- Benefit from the broad experience Finalyse experts have in actuarial and risk modelling.
- Develop a solution tailored to your methodology and business requirements.
- Gain independent validation that your model respects fundamental principles and accepted market practice.

Motivation

- **Actuarial Models:** we review, enhance and produce models for both reserving and pricing using the latest techniques, such as machine learning for pricing.
- **Partnerships:** we hold a long-standing partnership with SAS and Moody's in implementing various projects including IFRS 17 and IFRS 9.
- **Model Controls and Processes:** we review and improve the current control environment, governance, change control and documentation.
- **ESG validation:** we review the asset model appropriateness of ESG calibration and output, produce sensitivity analyses.
- **IFRS 17 Modelling:** we work on IFRS 17 implementation, model configuration and testing, model validation using our CSM prototype model.
- **Tools in use:** VBA for Excel, SQL, R, Python, SAS, Power of BI, Machine Learning, Prophet, ResQ, Moody's RiskIntegrity for IFRS 17, SAS for IFRS 17.

AMSTERDAM

BRUSSELS

BUDAPEST

DUBLIN

LUXEMBOURG

WARSAW