GLASS for Insurance

An Asset and Liability Management Solution for Insurance Companies

GLASS is a comprehensive balance sheet management solution specifically tailored for life, non-life, and composite insurers. Its flexible modular structure allows it to be deployed across your investment, actuarial, and risk management functions, as well as at a consolidated level. This enables seamless alignment of key areas and processes, leading to improved financial decision making and reporting. GLASS is based on advanced technology, backed by a dedicated and experienced team of researchers, developers, and insurance industry experts.

Economic Scenario Generator (ESG)

GLASS utilizes our real-world and risk-neutral ESG. Leveraging on its proprietary frequency domain methodology, this ESG integrates short and long investment horizons consistently across all asset classes and economies. This approach brings important consistency and efficiency to enterprise-wide investment decision-making and risk management processes.

Investment Strategy Optimization

GLASS enables you to optimize your investment portfolio through comparing your Strategic Asset Allocation (SAA) and Dynamic Asset Allocation (DAA) to alternative strategies and producing constrained and unconstrained efficient frontiers. Any combination of assets, derivative overlays and liability cash flows can be taken into account in the optimization.

Enterprise Risk Management

GLASS quantifies the impact of investment strategy, product mix, and management action on the evolution of your risk and capital position. The development of regulatory and free capital can be simulated on a product, entity, and company level across multiple investment strategies. The simulation results are valuable inputs for risk budgeting, risk reporting, and setting your risk strategy.

Reporting and Data Visualization

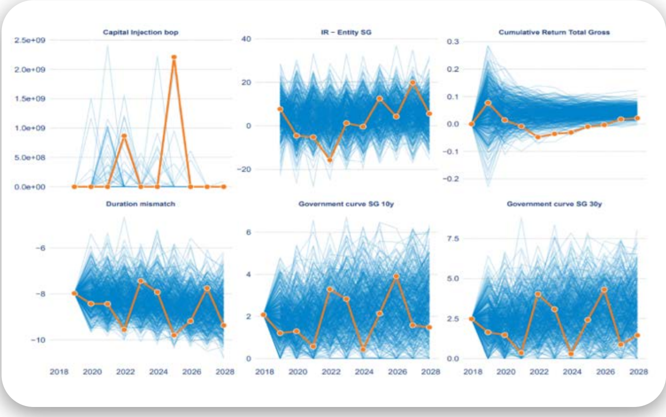
GLASS offers comprehensive reporting which can be fully customized. Results and numerical data can be exported to standard spreadsheet applications for even more detailed analyses.

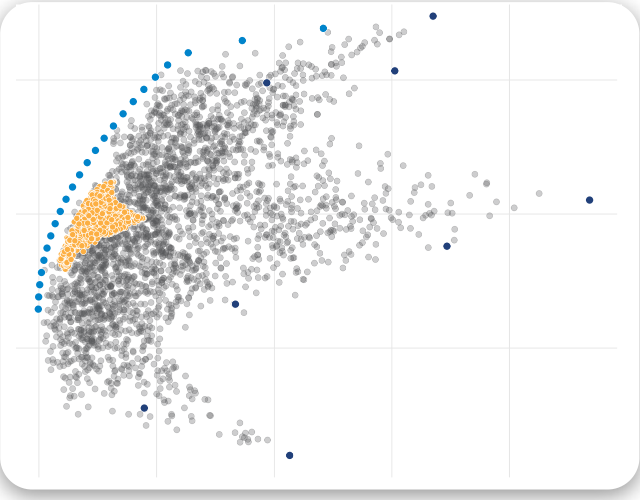
- Analysis of Change (AoC): a complete drill-down into specific drivers for capital generation
- Balance Sheet: integrated overview of development of all individual balance sheet items in the risk simulation
- Profit & Loss: an attribution of the periodic change in surplus to the underlying components
- Cash Flow Analysis: a detailed overview of the periodic cash flows within the risk simulation
- Interest Rate Sensitivity: in-depth analysis of interest rate sensitivity of both assets and liabilities on your balance sheet

Key Functionalities of GLASS

Stochastic Balance Sheet Modeling

GLASS facilitates and enhances the Enterprise Risk Management (ERM) process by its capability to model and project the complete balance sheet. In addition to several hundred economic variables and asset classes, GLASS supports multiple liability types (with-profits, universal life), economic and regulatory capital (Solvency II), and multiple investment strategies inclusive of derivatives. Not only does GLASS include "what-if" functionality, also risk and return metrics and statistics can be monitored and tracked on both aggregate and scenario level.





Efficient Frontier with CVaR Constraints

GLASS's full potential comes to light when it is applied to model multiple competing investment strategies, resulting in efficient frontiers in a multi-dimensional asset-liability context, based on various optimization algorithms. Among others, this takes into account:

- Cutting-edge robust optimization
- High-dimensional dependencies between hundreds of variables and asset classes, including private assets
- Liability cash flows and derivative overlays
- Rebalancing rules, transaction costs, and fees

About Ortec Finance

We model and map the relevant uncertainties in order to help you monitor your goals and decisions. Founded by leading experts in the fields of Econometrics and Technology, we have in 35 years achieved an outstanding reputation, built on reliability. With over 500 clients in 20+ countries, we play a vital role in helping our clients improve investment decision making and managing uncertainty.

Headquartered in Rotterdam, Ortec Finance has offices in Amsterdam, London, Toronto, Zurich, Melbourne and in New York.

20+
Countries represented

500+
Customers

96%
Retention rate

3 Trillion
Euros total assets managed by our clients

More info or contact

Full brochure, incl. tech specs: ortecfinance.com/GLASSins

All products for insurers: ortecfinance.com/insurance

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