

Prometeia solution for ESG Risks Management

Climate Risk data and advanced analytics



Unique blend of economic research, model development and reporting automation expertise, providing the client with a full array of ESG solutions, covering all major EMEA economies

Our ESG solutions are fully up-to-date on market best practices and take advantage from the consolidated relations of Prometeia with multiple Central Banks and regulatory bodies across EMEA

Climate Risk data, simulation engines & reporting

Prometeia's ESG solutions rely on PMP[™], the open modelling environment designed to accelerate the development of internal models and advanced analytics. This solution allows to easily integrate bottom-up analysis and simulation into the Bank's ESG framework, supporting Rating Attribution, Credit Planning and Integrated Stress Testing, in line with the latest regulatory trends

Use cases supported

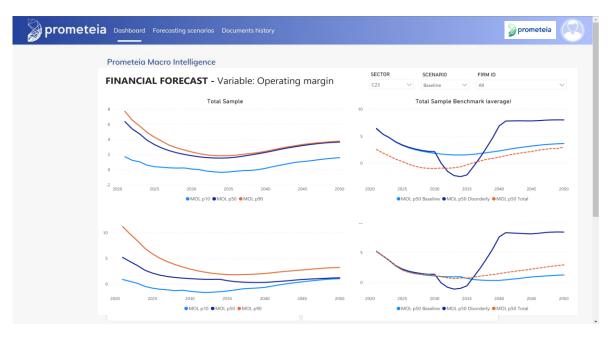
- → End-to-end support to the Regulatory Climate Stress Test (CST)
- \rightarrow Treasury strategy optimization measuring Green Risk Factor
- → Credit Portfolio Alignment with Net Zero Emission roadmaps
- \rightarrow Climate-related lending and advisory risks and opportunities
- → Insurance Risk Premium estimation for Physical Risk Coverage
- → ESG Data framework and questionnaires





Scenario Generator & Transition Risk Engine

- → Combines geo-sectoral outlooks and supply chain assessment (via a proprietary Geo-sectorial Model) with single name data (public or gathered with surveys), covering all major EMEA economies
- → Single-name engine that allows to measure and forecast Transition Risk impacts, modeling cost increases, investments needed, financial charges etc.
- → Output includes future balance-sheets, ESG Scores and climateenvironment information (e.g. expected Carbon Footprint) at firm level

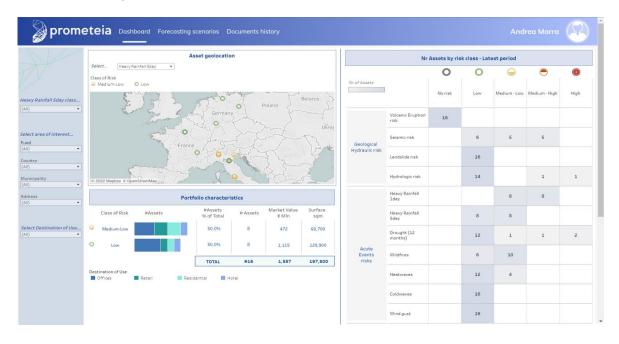






Asset Geo-location & Physical Risk Engine

- → Through the embedded geo-location tool, it is possible to locate all the plants and offices of a single company, starting from tax codes / other IDs
- → Fully integrated with the Scenario Generator, provides a long-term forecast of climatic hazards on a granular geographic level, integrating geomorphological features
- Comes with an embedded modeling framework to estimate damages from hazards to real estate assets and business operations, and their impacts, for example on PDs and LGDs



| | - | | Exposure to Physical Risk | | | | | |
|---|------------------------|----------|--|------------------------------|----------------------------------|-----------------------------|-------------|----------------|
| OGGIARO - WWOKIT HIUUANDH | | | | No Risk O | Low O | Medium-Low 🤤 | Medium-High | 🗢 High 🍕 |
| PRECOTIO | GEOLOGICAL - HYDRAULIC | | ACUTE EVENTS | | | | | |
| VILLAPIZZONE MONTALBINO CIMA SI SNANO ISOLA | į Landslide | 0 | | | | Climate scenario-up to 2050 | | |
| | 1 Volcanic Eruption | 0 | Risk Indicator | Latest period (2011-2021) | Trend (vs baseline 1990-2010) | Orderly | Disorderly | Hot-House worl |
| | Seismic | Θ | 1 Flood | 0 | = | 0 | 0 | |
| PORTA CITTA SEMPIONE STUDI | į Hydrologic | 0 | 🧍 Heavy Rainfall Sday | Θ | = | 0 | Θ | \bigcirc |
| PORTA MAGENTA MIlan Renteggio Porta Tecnese | | | Drought (12months) | 0 | ~ | 0 | 0 | 0 |
| | POLLUTION | | Heat Waves | 0 | = | | \bigcirc | • |
| | 1 PM 10 | 0 | 1 Cold Waves | 0 | = | 0 | 0 | 0 |
| TALIER | į PM 2.5 | 0 | į Wind gust | 0 | = | 0 | 0 | 0 |
| BARONA VIGENTINO | | | 1 Wildfires | 0 | = | 0 | 0 | \bigcirc |
| | | | CHRONIC EVENTS | | | | | |
| Market Value Reconstruction Value 50,372,000 C 10,794,000 C | Surface Ground floor | Floors | | | | Climate scenario-up to 2050 | | |
| | 5,140 sqm 1,028 sqm | # 5 | Risk Indicator | Latest period (2011-2021) | Trend (vs baseline 1990-2010) | Orderly | Disorderly | Hot-House wo |
| | | | 1 Temperature - min | | = | = | ^ | ^ |
| Altitude Type of Distance to Destination | n of Use | | i Temperature - max | | = | = | ^ | * |
| | | | Alternative Constraints of the International | | | 100 | | |
| 115 mt FlatLand 3,562 mt Office | es | | i Temperature - mean | | = | = | ^ | * |
| Zone river/sea | es | | i Temperature - mean Precipitation | | = | = | - | ~ |



Portfolio Alignment & Climate Risk Optimization

- → Optimization targets are set in terms of GHG emission under a specific scenario, defining constraints in terms of asset growth, sectorial mix, etc.
- → Possibility simulate the impact under various scenarios (i.e. via stochastic simulation), calibrating the granularity of the optimization process: e.g. single name for "Target Setting counterparties", NACE + geography, etc.
- → Economic Capital Model for the quantification of the correlation effects among economic / industrial sectors considering their Carbon Footprint





About Prometeia

Prometeia is a global firm of quantitative experts and software engineers, dedicated to applying financial modelling, economic research and data science to solve complex business and regulatory challenges. Established in 1974 as an independent institute for economic research, for half a century Prometeia has been developing innovative software solutions, studies, and reports for banking and insurance groups, institutional investors and public organizations. Our distinctive mix of competencies has made Prometeia a leading European company in Risk, Asset and Wealth Management solutions. Our expertise is proved by our award-winning solutions, our double-digit growth in turnover and staff, over 500 references in 20+ countries.

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