ORTEC FINANCE

> cambridge econometrics clarity from complexity



Systemic Climate Risk-Aware Economic and Financial Scenarios

Climate & ESG Solutions

Navigate a Changing Climate With Ortec Finance's Climate & ESG Solutions

Climate MAPS guantifies your portfolio's exposure to systemic climate-related financial risks & opportunities across different climate scenarios

Our solution equips investors with climate-informed risk-return metrics, including in absolute dollar value, that quantify exposure to systemic climate risks & opportunities across asset classes, regions, sectors and holdings. This enables investors to consistently integrate climate risk into risk-management, strategic asset allocation and asset liability management for investment decision-making.

Climate Risks are Systemic:

Transmission channels & dynamic feedback loops between companies, sectors and countries amplify risk. Climate risk will therefore fundamentally impact how economies & markets perform as a whole. That is why financial regulatory bodies recommend that investors take these risks into account.



and Financial Scenarios



Key Strengths

Know your climate-related financial risk: What? When? Where? And How Much?

Independent and **research-based**, combining latest climate

Results expressed in financial metrics (e.g. risk-return) that are **easily integrated** into any SAA/ALM software

Transition and physical risks, including unique climate-attributable extreme weather events modeling

Captures market 'pricing-in' effects of transition and physical



Enables integral climate risk exposure assessment across (sub-)asset classes, regions, sectors and holdings

Flexible approach, we can adjust to client specific views



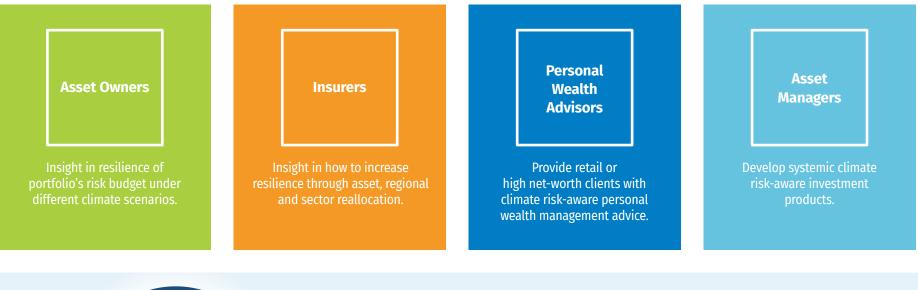






Applications How we can help you integrate climate risk into financial decision-making

Climate MAPS enables you to measure, monitor, and manage the impact of climate change on your financial performance at total portfolio, asset class, sector, country and holding levels. Here are some example use cases:





Disclosure:

Fulfilling forward-looking scenario-based analysis in line with TCFD, UN PRI, etc.

Quantified, systemic climate risk portfolio scan results fulfill requirements of pillar 2 'Strategy' of the TCFD disclosure recommendations.





A Tool Built on Robust Climate Science

Opt for standardized or bespoke global warming pathways



Global Warming Pathways ModeledParis Orderly TransitionParis Disorderly TransitionFailed TransitionOrderly transition
pathwayDisorderly transition
pathwayBusiness-As-Usual
(only currently committed
transition effects)Locked-in physical
impactsLocked-in physical
impactsDramatic physical impacts

Our global warming pathways are aligned with the RCP scenarios put forth by UN Climate Change's (UNFCCC) appointed scientific body IPCC.

Climate MAPS is based on scenario analysis, using the combination of a macroeconomic and financial model. Scenario analysis is a powerful method for assessing uncertainty, to help you gain insight into what lies ahead, whether the coming period will be one of high growth or high volatility. Climate MAPS aims to help you determine which asset mix is most suitable or robust across a range of potential futures.

Ortec Finance has the capability to offer bespoke scenarios or to model a range of standard scenarios designed by regulatory or policy bodies.



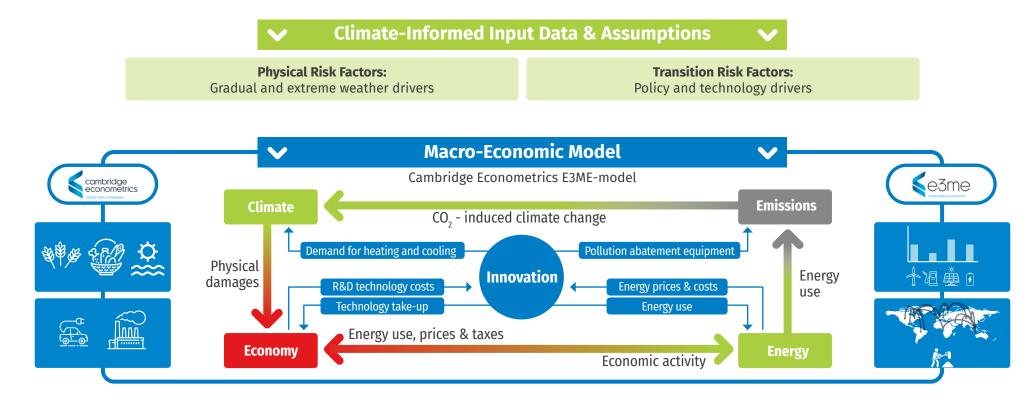




Our Methodology at A Glance

In partnership with Cambridge Econometrics

V



Stochastic Financial Model

Translates climate-adjusted GDP, inflation and sector GVA expectations over time to 600+ financial and economic variables via stylized facts based on historic relations per year, per country, per sector and per holding.

Systemic Climate Risk-Aware Scenarios Sets

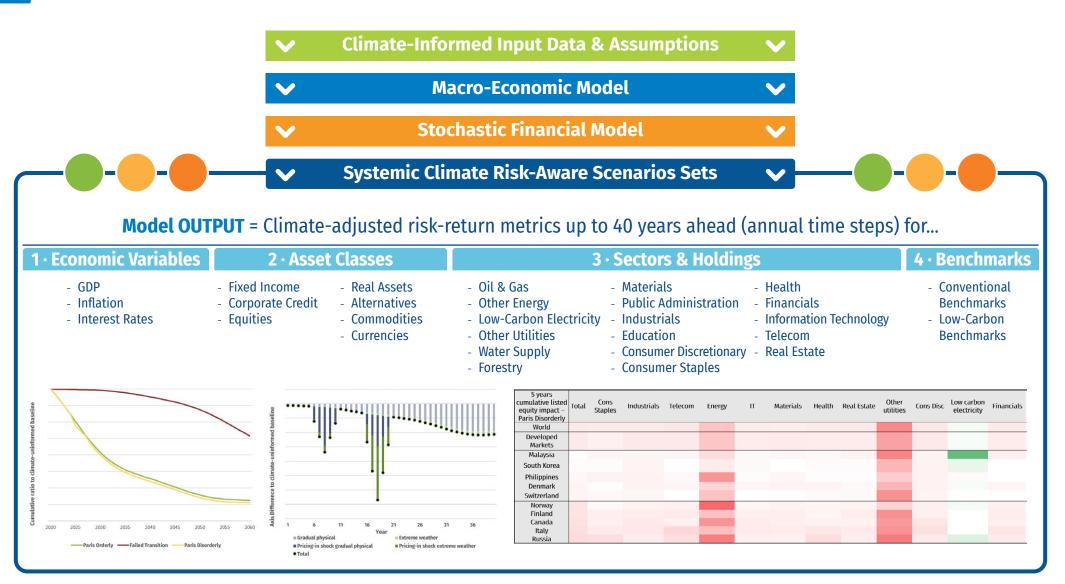
Climate-adjusted growth expectations and pricing-in dynamics up to the year 2060.





Outputs You'll Receive

Delivery options: online portal, dataset or report







Client Deliverables

Our comprehensive modular offering



8



ORTEC

FINANCE

The Compass **Climate & ESG Solutions**



Ortec Finance has developed five tools to support you as an investor to navigate climate change.

These tools offer economic and financial insights into your investments' vulnerabilities and opportunities - and how to act on them. Insights are **quantified** and expressed in **financial metrics** for easy integration into your investment decision-making & reporting frameworks. Our tools can be integrated into **software**, implemented separately, or utilized in various combinations depending on your **specific needs**.

> Maps out your portfolio's exposure to systemic, economic and financial climate risks. In partnership with Cambridge Econometrics

Signposts the world's actual climate trajectory.



CLIMATE

GNS

 $\overline{\mathbf{S}}$

ΓΙΜΔΤΕ

Monitors portfolio alignment with net-zero GHG emissions by 2050.



Assesses your real assets' exposure to future extreme weather events.



Alerts you to material ESG breaking news.









Do you have other challenges?

Other solutions provided by Ortec Finance

	Insurance Companies	Pension Funds	Sovereign Wealth Funds	Wealth Management / Banks	Asset Manager
GLASS for Pensions and Insurance Asset and liability scenario solution that improves financial decision making and risk management by simulating the short and long-term solvency position.	\bigcirc	\bigcirc	\bigotimes		\bigcirc
PEARL The acclaimed performance measure- ment & attribution solution.	\bigcirc	\bigcirc	\bigotimes		\bigcirc
OPAL Goal-based financial planning and monitoring solution.	\bigcirc	\bigotimes		\bigotimes	\bigcirc
Real world economic scenarios Ortec Finance Scenarioset (OFS) generated by the Dynamic Scenario Generator (DSG). Ortec Finance also offers Risk Neutral scenarios	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc





Contact Us Speak to one of our experts



Ortec Finance is a leading provider of technology and solutions for risk and return management.

It is our purpose to enable people to manage the complexity of investment decisions. We do this through delivering leading technologies and solutions for investment decision making to financial institutions around the world. Our strength lies in an effective combination of advanced models. innovative technology and in-depth market knowledge. This combination of skills and expertise supports investment professionals in achieving a better risk-return tradeoff and thus better results.

Headquartered in Rotterdam, Ortec Finance has offices in:

Amsterdam, London, Toronto, Pfäffikon and Melbourne.

Willemijn Verdegaal Co-Head Climate & ESG Solutions



Lisa Eichler Co-Head Climate & ESG Solutions

climate@ortec-finance.com



20+ countries represented

500+ customers

96% retention rate

3 trillion euro total assets ġġġ managed by our clients

Rotterdam

Boompies 40 3011 XB Rotterdam The Netherlands Tel. +31 10 700 50 00

Amsterdam

Naritaweg 51 1043 BP Amsterdam The Netherlands Tel. +31 20 700 97 00

London

Bridge House 181 Queen Victoria Street London EC4V 4EG United Kingdom Tel. +44 20 3770 5780

Zurich

Poststrasse 4 8808 Pfäffikon SZ Switzerland Tel. +41 55 410 38 38

Toronto

130 Adelaide St. W. Suite 805 Toronto ON, M5H 0A1 Canada Tel. +1 416 736 4955

€)

Melbourne

WeWork Level 7 222 Exhibition Street Melbourne VIC 3000 Australia Tel. +613 8899 6455

www.climatemaps.app

www.ortecfinance.com/climate