



Climate Services for the Finance Sector





Navigating the Climate Challenge in Finance

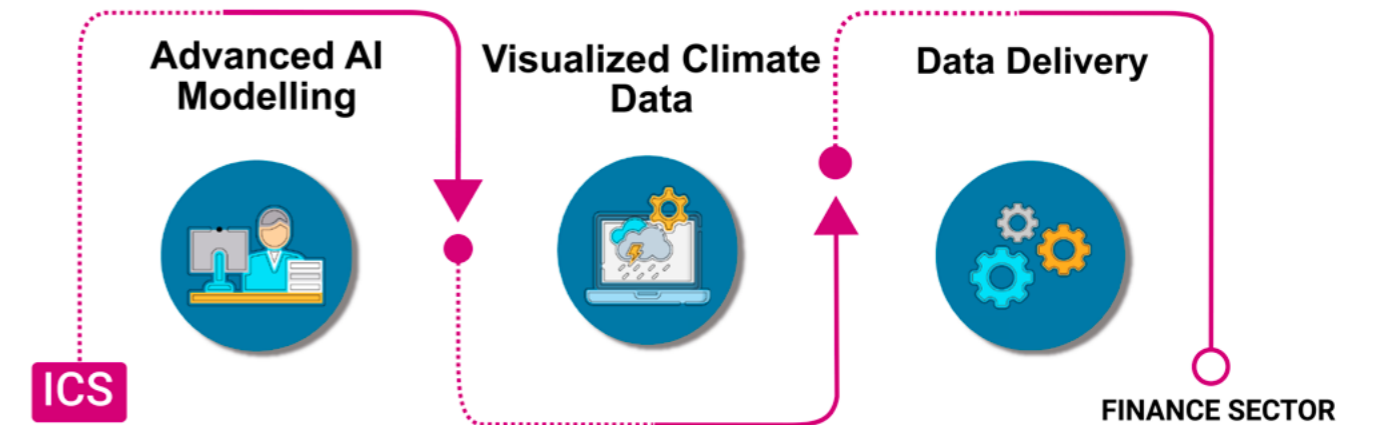
In a world where climate change is not just an environmental issue, but a critical economic factor, the finance sector faces unprecedented challenges. From fluctuating market dynamics due to extreme weather events to regulatory shifts in sustainable investing, the climate change is reshaping the financial landscape.

Pioneers in Climate Intelligence

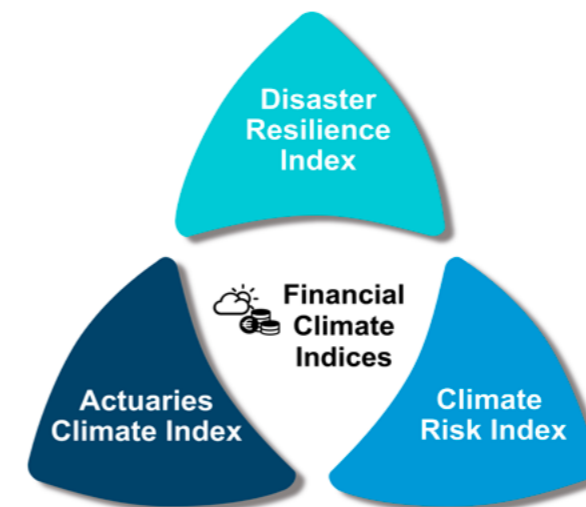
[Inside Climate Service srl](#) provides the expertise and tools to turn your challenges into opportunities, ensuring your financial strategies are robust, resilient, and forward-thinking.

Benefit from ICS' thorough research and development coupled with operational experience by accessing our advanced climate products ideal for your finance applications.

ICS' products are grounded on historical, seasonal prediction and projection data, and driven by sophisticated process-based modelling and state-of-the-art Machine Learning and Artificial Intelligence algorithms.



Understanding the Impact



This image illustrates the Climate Risk Index for assessing financial asset impacts, the Actuaries Climate Index for predictive forecasting, and the Disaster Resilience Index for strategic resilience planning in finance.

Tailoring Services to Finance Sector Needs



Targeting Growth



Inside Climate Service specializes in addressing the unique climate-related challenges faced by diverse finance sector professionals. From market traders to hedge fund managers and company board members, our services offer crucial insights and strategies to mitigate climate risks, enhance investment planning, and ensure sustainable growth. Discover how our innovative climate services can be a game-changer for your specific role in the finance world.

Comprehensive Climate Services

Inside Climate Service offers a suite of specialized services designed to integrate climate data into financial decision-making. Our offerings include in-depth climate modelling, innovative data delivery solutions, and expert consultancy. Each service is tailored to enhance your understanding of climate impacts and to guide your business towards sustainable, resilient financial strategies.

Beyond data delivery, Inside Climate Service provides bespoke assistance to the company, including technical and strategic consultancy. Training sessions led by world-leading scientists empower the company to embed climate considerations into their long-term business strategies, ensuring sustainable growth and resilience against future climate risks.

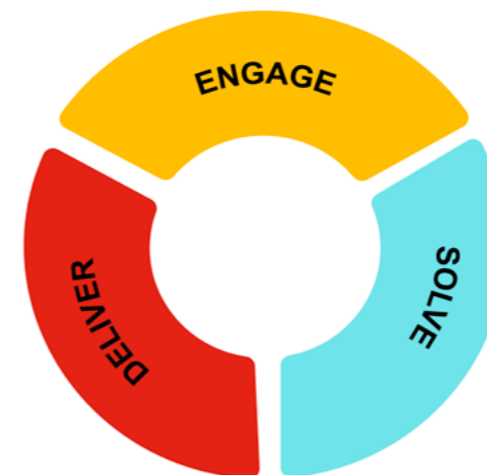
START HERE

SOLVE WITH INSIDE CLIMATE SERVICE

TRANSFORM YOUR CLIMATE FINANCE CHALLENGES



IDENTIFYING A SPECIFIC FINANCE CHALLENGE
A financial company faces losses from extreme weather-induced market shifts, seeking to understand and mitigate climate risks for future sustainability.



ENGAGEMENT WITH EXPERTISE:
The company partners with Inside Climate Service for tailored climate data analysis, leveraging our expertise to enhance strategic financial decision-making.



TAILORED DATA ANALYSIS AND MODELLING:
Utilising advanced tools and AI, we develop models that forecast climate impacts, aiding the company in navigating financial market fluctuations.



REALIZING TANGIBLE RESULTS:
Through our services, including the Teal visualisation tool, we grant the company direct access to key climate data, facilitating swift integration for risk minimisation and enhanced resilience in decision-making.

We Use Advanced Climate Data Visualization

Discover the power of climate data to transform your financial strategies and empower your financial decisions with comprehensive climate analytics.

Historical climate data

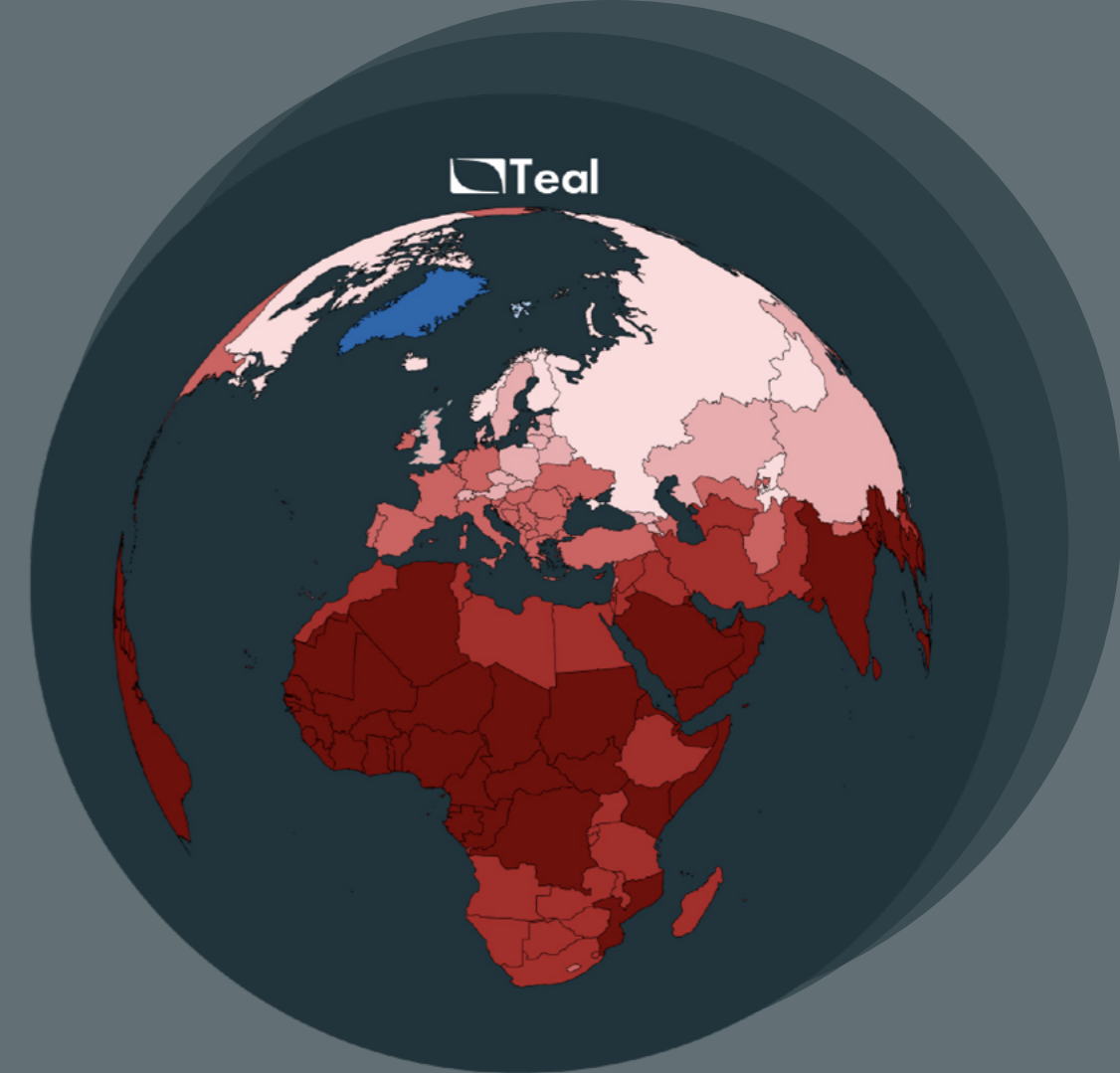
Access comprehensive historical climate data from 1950 to present, across various frequencies and geographic resolutions. Essential for trend analysis and decision-making.

Forecasts

Benefit from precise, short-term to medium-term climate forecasts, aiding proactive strategy and risk management in finance.

Projections

Explore long-term climate projections up to 2100. Gain insights for sustainable planning and investment strategies in a changing climate



Our climate data delivery is diverse and flexible, encompassing direct transfers, FTP, our innovative [Teal tool](#), and API access. Teal, our user-friendly online visualization tool, brings the future of climate data exploration to your fingertips. It enables you to effortlessly discover insights, download crucial climate and sectoral data, and interact with TealBot for an enhanced experience.

This versatile software-as-a-service integrates smoothly into client systems, while our API provides expert users with programmable access for sophisticated analysis and custom application development.

Our Journey Begins: Founding Inside Climate Service

In 2021, a visionary trio – [Prof Troccoli](#) from the [World Energy & Meteorology Council \(WEMC\)](#), alongside [Prof Borga](#) and [Dr Zaramella](#) from the University of Padova – joined forces to launch Inside Climate Service (ICS). This collaboration, sparked during the EU H2020 SECLI-FIRM project, was more than a meeting of minds; it was the genesis of a pioneering venture in climate services.

Prof Troccoli, co-founder and director of WEMC, contributes decades of applied research, a global perspective, and an innovative spirit.

Prof Borga and Dr Zaramella bring the academic rigour and technical expertise of the University of Padova. Together, they are reshaping the application of climate science, aiming to seamlessly integrate it across sectors such as energy, agriculture, water, insurance, infrastructure, and education. ICS is not just another start-up; it embodies the synergy of academic wisdom and operational excellence, drawing on the extensive expertise of both the University of Padova and WEMC. Poised to lead in climate services, ICS is dedicated to supporting a multitude of crucial global sectors.

Contact us

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Selected Publications

Borga M, Stoffel M, Marchi L, Marra F, Jakob M (2014) Hydrogeomorphic response to extreme rainfall in headwater systems: Flash floods and debris flows. *J Hydrology*, 518, 194-205. <https://doi.org/10.1016/j.jhydrol.2014.05.022>

Bloomfield HC, Brayshaw DJ, A. Troccoli A et al. (2021) Quantifying the sensitivity of European power systems to energy scenarios and climate change projections. *Renewable Energy*, 164, 1062-1075. <https://doi.org/10.1016/j.renene.2020.09.125>

Blöschl G, Hall J, Parajka J, Perdigão RAP, Merz B, Arheimer B, Aronica GT, Bilibashi A, Bonacci O, Borga M et al. (2017), Changing climate shifts timing of European floods. *Science*, 357, 588-590. <https://doi.org/10.1126/science.aan2506>

Dallan E, Borga M, M Zaramella M, Marra F (2022) Enhanced summer convection explains observed trends in extreme subdaily precipitation in the eastern Italian Alps. *Geophysical Research Letters*, 49 (5), <https://doi.org/10.1029/2021GL096727>

Dubus L, Saint-Drenan Y-M, Troccoli A, De Felice M, Moreau Y, Ho L, Goodess C and Sanger L (2023) C3S Energy: a climate service for the provision of power supply and demand indicators for Europe based on the ERA5 reanalysis and ENTSO-E data. *Meteorological Applications*, 30, e2145. <https://doi.org/10.1002/met.2145>

Marchi L, Borga M, E Preciso E and Gaume E (2010) Characterisation of selected extreme flash floods in Europe and implications for flood risk management. *Journal of Hydrology*, 394 (1-2), 118-133. <https://doi.org/10.1016/j.jhydrol.2010.07.017>

Troccoli A, ed (2018) Weather and Climate Services for the Energy Industry. Palgrave Macmillan, 197 pp. <https://doi.org/10.1007/978-3-319-68418-5>

Troccoli A, Dubus L and Haupt SE, eds (2014) Weather Matters for Energy. Springer Academic Publisher, 528 pp. <https://link.springer.com/book/10.1007/978-1-4614-9221-4>

Troccoli A, ed (2010) Management of Weather and Climate Risk in the Energy Industry. NATO Science Series, Springer Academic Publisher, 344 pp.

Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds (2008) Seasonal Climate: Forecasting and Managing Risk. NATO Science Series, Springer Academic Publishers, 467 pp. <https://link.springer.com/book/10.1007/978-1-4020-6992-5>

Troccoli A (2020) Effect of Climate and Geography on Worldwide Fine Resolution Economic Activity. *PLoS ONE* 15(3): e0229243. <https://doi.org/10.1371/journal.pone.0229243>

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