



IRISCC

**Integrated Research Infrastructure
Services for Climate Change Risks**

**Bridging Science,
Policy, and
Society**

 www.iriscc.eu

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Funded by
the European Union



Addressing Climate Risks

Europe faces increasing climate hazards – floods, heatwaves, droughts, fires, and coastal storm surges – threatening human health, food security, ecosystem services, and biodiversity. Both slow-onset and extreme events place growing stress on society, the economy and the environment.

Our Mission

Integrate knowledge from environmental, health, and social science Research Infrastructures.

Co-develop actionable solutions for multi-hazard, multi-risk realities.

Strengthen resilience, protect ecosystems, and support sustainable resource management.



What is IRISCC?

IRISCC (Integrated Research Infrastructure Services for Climate Change Risks) is a European Union-funded consortium comprising **14 leading European research infrastructures and facilities**. By making use of their installations, tools and data on environmental, health and social sciences, the goal of IRISCC is to empower society to address and strengthen resilience to climate change risks, with your help. To achieve this goal, IRISCC has scheduled seven **Open Calls for Access**, inviting individuals and groups to make use of our facilities, resources and services. These are now accessible through our **Catalogue of Services**, offering potential users the opportunity to contribute to strengthening resilience to climate change risks and, ultimately, to fostering a more sustainable future for Europe.

Key Societal, Research & Policy Objectives

Advance Research Excellence

Provide integrated RI services that enable cutting-edge climate risk research across disciplines.

Inform Policy and Governance

Deliver evidence-based insights for local, regional, and EU-level climate adaptation and risk management policies.

Foster Innovation for Industry

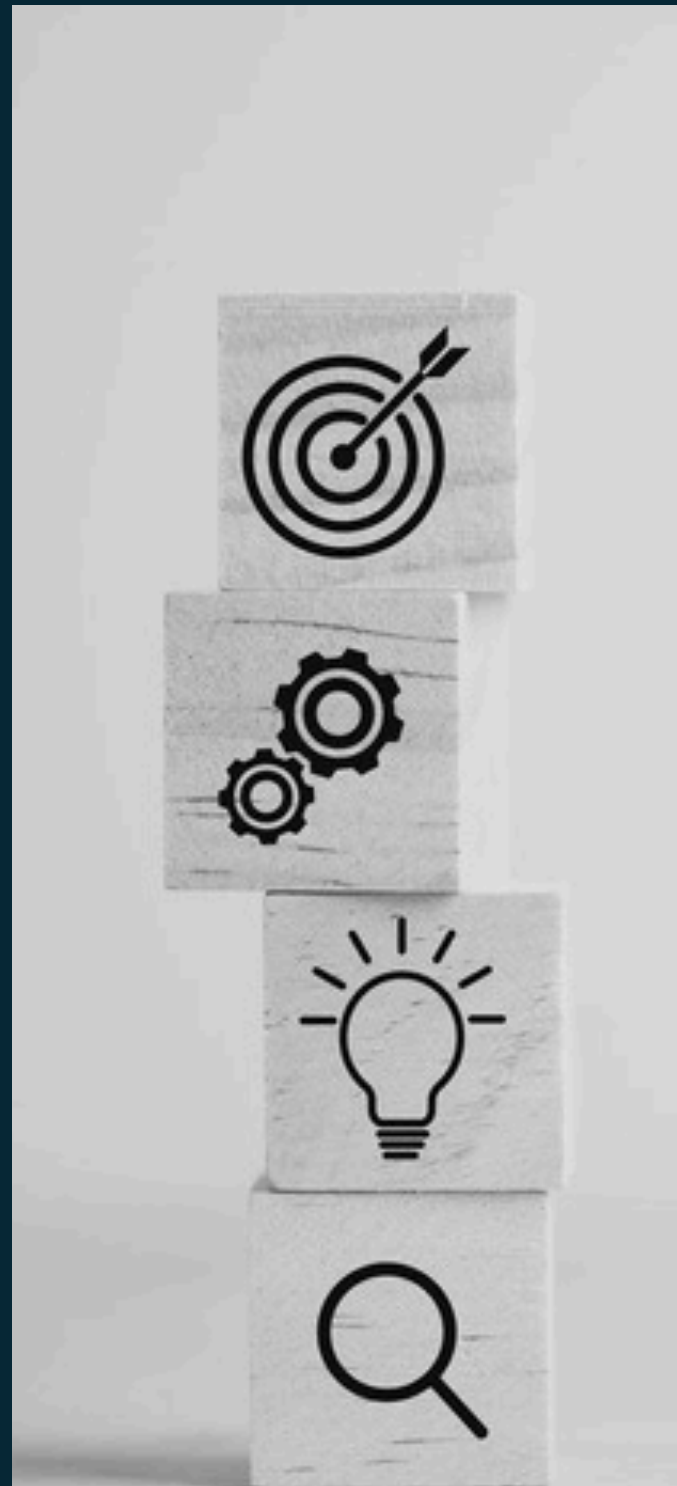
Support sectors such as finance, agriculture, energy, transport, and health with actionable tools for resilience and sustainable growth.

Accelerate Research-to-Solutions Conversion

Transform scientific knowledge into practical services and innovations that directly benefit society.

Align with European Priorities

Contribute to the EU Green Deal, Horizon Europe Clusters 5 & 6, and the Mission on Climate Adaptation.



Service Design Labs

Co-Creation for Impactful Knowledge Services

Service Design Labs (SDLs) are collaborative platforms where service providers, researchers, end-users and other stakeholders co-design Knowledge Services tailored to societal needs.

IRISCC SDLs



Land-Use Decision-Making

Farmers, foresters, and regional planners assess land vulnerability.



Drought Adaptation

Authorities, water utilities, and NGOs develop mitigation frameworks.



Soil Carbon Management

Farmers, food companies, and policymakers create carbon storage guidelines.



Climate Services Co-Design

Multi-RI collaboration with Copernicus ensures scalable solutions.

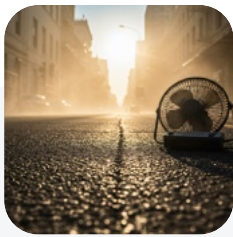
Why SDLs Matter?

- **User-centric design** ensures practical, innovative, and sustainable services.
- **Collaborative innovation** drives creative problem-solving.
- Collaboration within the SDLs **maximises societal and policy impact**.
- Learn more: <https://www.iriscc.eu/service-design-labs>

IRISCC Demonstrators

From Data to Decision-Making

IRISCC Demonstrators pilot services that integrate RI data and expertise to address specific climate risks, supporting both societal resilience and industrial adaptation.



Urban Heat & Air Quality

Combines health and air-quality data to protect human well-being in European cities. Supports construction and real estate planning to design healthier, climate-resilient urban environments.



Flooding Risk

Models storm surges and sea-level rise to safeguard coastal communities. Provides tools for insurance, finance, and infrastructure sectors to assess risk and guide investment decisions.



Ecosystem Drought Resilience

Links water and carbon cycles to forecast ecosystem responses. Informs agriculture and forestry industries, while helping authorities secure food production and ecosystem services.



Marine Biodiversity under Ocean Change

Assesses impacts on marine ecosystems critical to biodiversity. Supports the blue economy (fisheries, aquaculture, shipping) in adapting to changing ocean conditions.



Multi-Hazard Food Security

Integrates climate and agricultural data to predict crop risks. Enhances resilience of farmers, food companies, and consumers by supporting food security policies.



Wildfires in Europe

Provides near-real-time monitoring of wildfire plumes for emergency services. Supports forestry, insurance, and energy sectors in managing risks and protecting communities.



Impact

Through demonstrators, scientific services are combined to create practical, scalable solutions that guide policymakers, industry, and society in building long-term EU climate adaptation strategies.

Learn More

<https://www.iriscc.eu/demonstrators/>

Driving Innovation & Policy Implementation

IRISCC as a Science-Policy-Industry Interface

Integrates research, policy, and societal needs on climate risks through co-designed services.

Promotes innovation across sectors and ecosystems.

Collaborates with the Joint Research Centre and other initiatives on embedding the services in relevant networks (e.g. Copernicus, EU RIs, EOSC, etc.)

Societal & Political Value

Strengthens climate resilience and risk management.

Supports evidence-based decision-making for authorities and industry.

Provides cross-RI access to digital services, modelling tools, and research facilities in the field of climate risks.

Policy Alignment

Supports EU Green Deal, Horizon Europe Cluster priorities, SDGs, and climate adaptation missions.

Builds capacity for transnational inter- and transdisciplinary collaboration in Europe and beyond.



Get Involved with IRISCC

- Access the IRISCC Catalogue of Services
<https://www.iriscc.eu/catalogue-of-services/>
- Join Service Design Labs or participate in Demonstrators and collaborate on co-designed solutions for climate risks.
- Subscribe to our Newsletter and Stay in touch to follow our progress and solutions : <https://www.iriscc.eu/newsletter/>

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