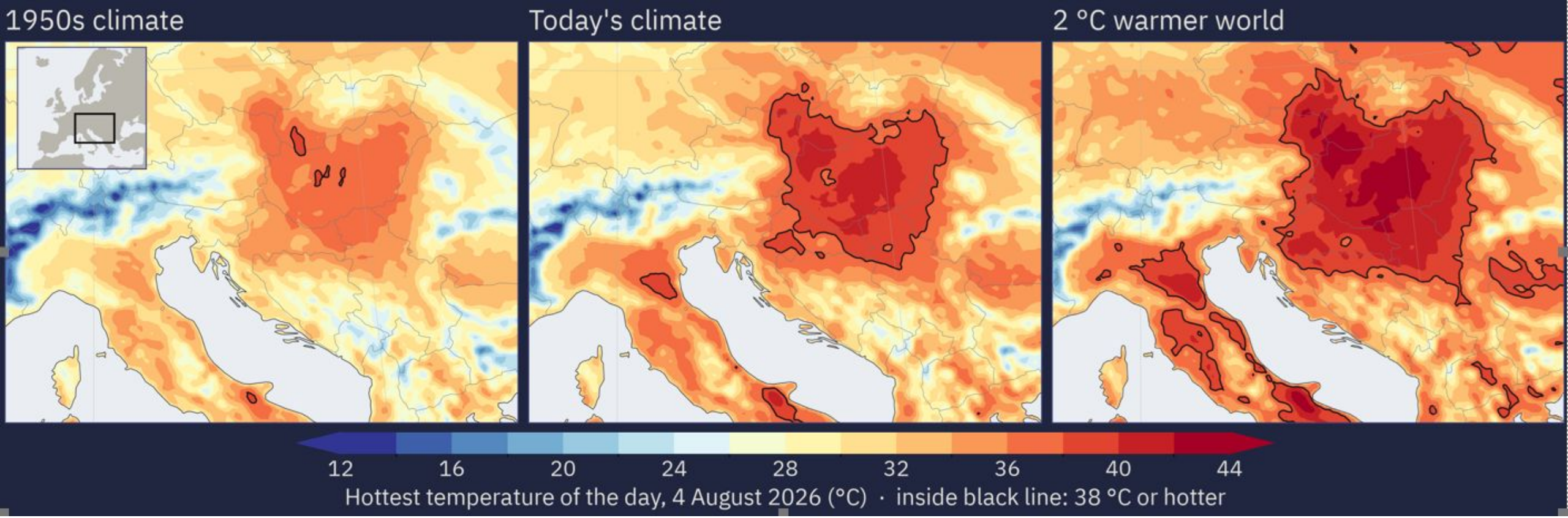
European Commission

EU Framework for Climate Resilience

A climate-resilient Europe: better prepared, better protected





- The changing reality: what the **August 2026 heatwave** would have looked like in 1950, and in a 2°C hotter world.
  - Modelling by the DestinationEarth initiative and its supercomputing facility, contributing to the supporting tools under the EU Framework for Climate Resilience.



State of the Union 2026

- *"On climate change, this summer was the **summer of truth.** Almost no part of our continent was spared."*
- *"These were the **hottest summer months ever** – but probably the **coolest of the years to come**."*
- *"This is not about **mitigation or adaptation**. **We need both**. And they need to strengthen each other. This is the only way to reach **climate resilience**. But we need to **step up dramatically on preparedness**."*
- *"We will present **a new framework for climate resilience** next month."*

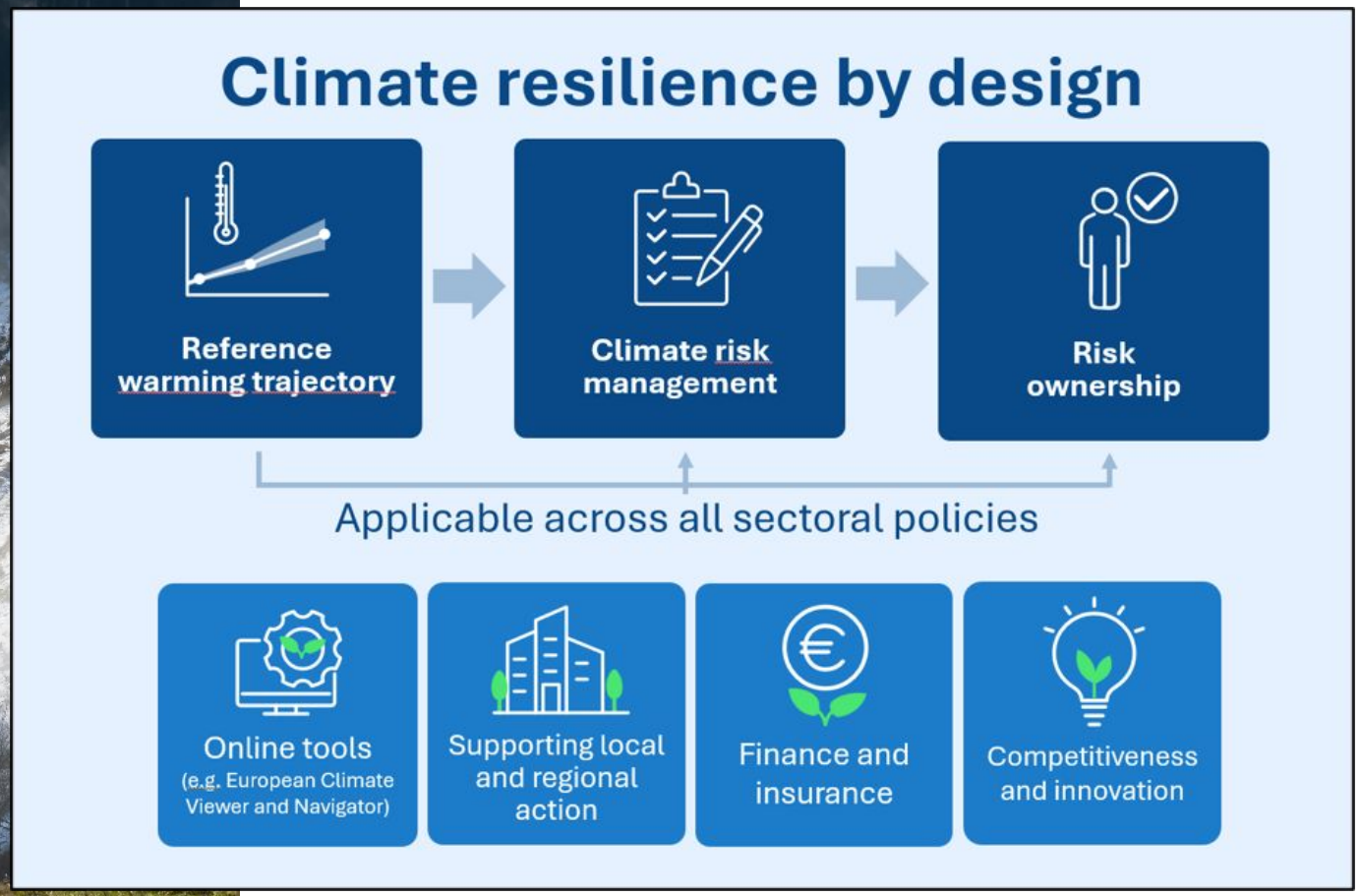


EU Framework for Climate Resilience

- Common European approach to climate resilience**, to anticipate, prepare for and manage climate risks**.
- Climate resilience becomes part of **how Europe makes decisions**
- Combines a proposed **European Climate Resilience Law** with practical **tools** and supporting measures.
- From resilience seen as a cost to **resilience as investment and opportunity.**



EU Framework for Climate Resilience – overview





Communication – main messages

- **Economic case** is compelling:
  - EUR 113 billion – estimated output cost due to the 2026 heatwave alone (across 30 European countries).
  - EUR 70 billion – estimated annual EU investment needs for climate resilience and adaptation.
  - Climate resilience supports **investment, innovation and long-term growth.**
- **Market opportunity** for climate adaptation and resilience solutions, technologies and products.
- Climate risks are **interconnected** across Europe and worldwide.
- **Climate resilience needs to become systemic**.



Communication – awareness and action

Embedding resilience across all major policy areas, domestic and international.

- **Supporting local and regional action**: European Implementation Programme.
- **Empowering European businesses and innovation**: Industrial Forum, Climate Resilience Industry and Innovation Dialogue, European Partnerships.
- **Finance and insurance**: Climate Insurance Alliance, DNSH Guidance.
- **SOTEU 2026 initiatives**: Climate Insurance Alliance; European Heatwave Plan; European Water initiative; Proposals for a European Firefighting Fleet; Identifying 100 of the most vulnerable territories in Europe.



European Climate Resilience Law

- **A common reference trajectory for global warming** based on projected future climate conditions to inform decisions on policies, assets and investments.
- **Clear identification of policy risk owners** to clarify who is responsible for managing climate risks across policy areas and levels of governance.
- **One single strategic plan** for Member States to meet their planning obligations under the Climate Resilience Law and the European Climate Law.
- **Simplified and more effective monitoring** to track progress, measure results, and improve climate resilience measures.



European Climate Resilience Law

- **A reference global warming trajectory for risk assessments and planning**, based on projected future climate conditions
  - For a shared understanding of the future to prepare for
  - To simplify climate resilience decisions
  - To consider national and sectoral circumstances in its application
- **Clear identification of policy risk owners** to clarify who is responsible for managing climate risks across policy areas and levels of governance
  - Member States identify the risk owners according to their national context.



European Climate Resilience Law (cont.)

Efficiency gains and limited administrative burden

- **Improved and more regular climate risk assessments** to strengthen consistency, synchronisation and comparability between EU and national assessments
- **Strategic plans on climate resilience at Union and national level** to bring priorities and actions together in a more coherent approach
- **Simpler monitoring and progress tracking** to assess climate resilience progress



European Climate Resilience Law (cont.)

Other elements

- **Promotion of transboundary cooperation**, when preparing national strategic plans
- **Online platform on climate resilience knowledge**, to facilitate the implementation of the Law, and facilitate access to information
- **European Environment Agency** to act as centre of excellence on climate resilience to assist the Commission on topics of relevance for the implementation of the Law



The European Climate Viewer

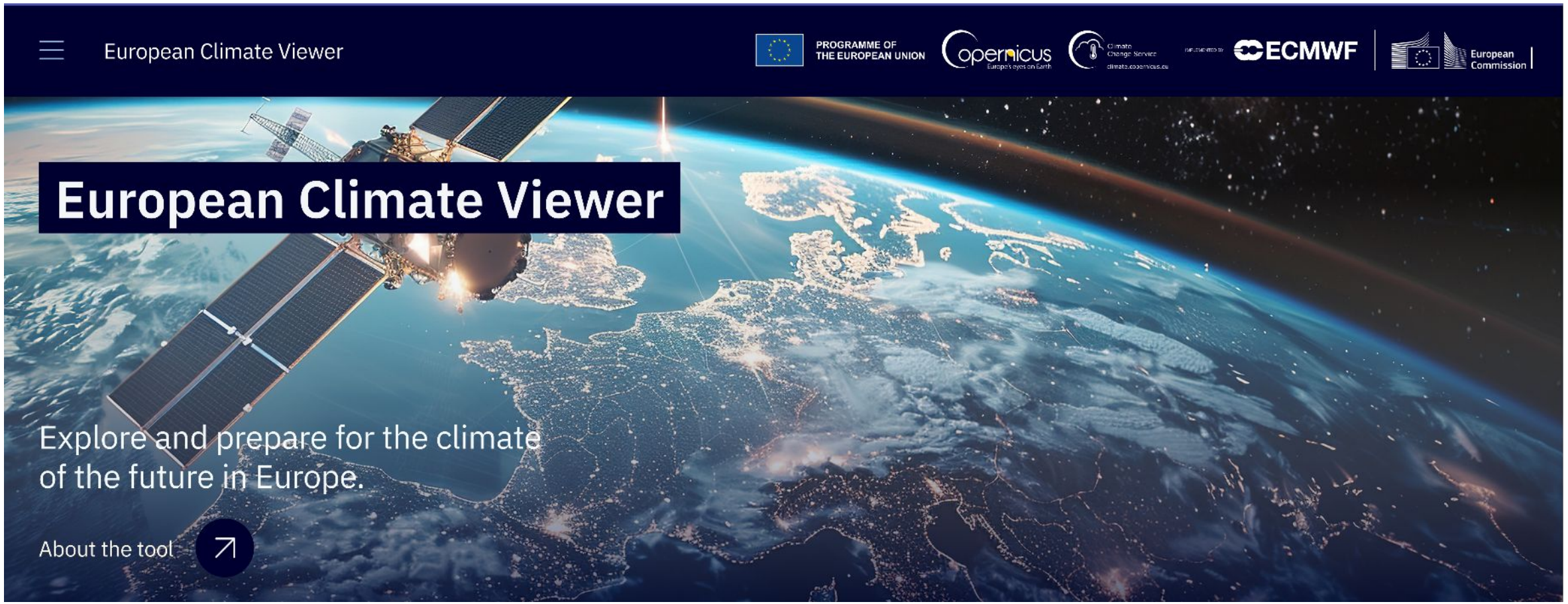
Explore projected climate hazards with an interactive map to support better planning.

The Navigator of Climate Resilience Tools

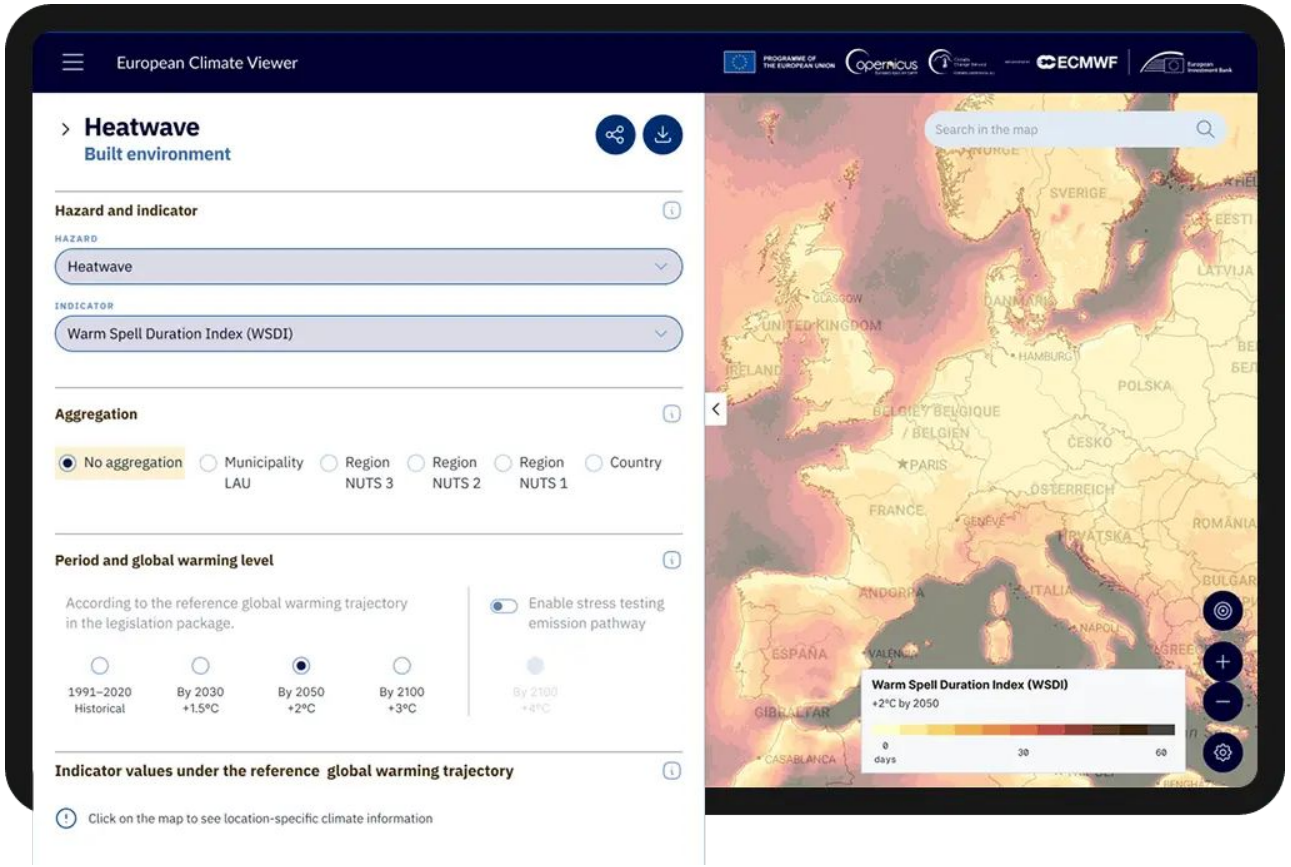
Discover a variety of adaptation tools tailored to different locations, sectors, and climate risks.

The Solutions Explorer

Learn about real-life adaptation projects developed and tested by the EU Mission on Adaptation to Climate change.


European Climate Viewer
PROGRAMME OF THE EUROPEAN UNION
Copernicus
Climate Change Service
ECMWF
European Commission
European Climate Viewer
Explore and prepare for the climate of the future in Europe.
About the tool

European Climate Viewer



- **Operationalises the reference global warming trajectory**
- Example: *'What will a 2C warmer world in 2050 mean in terms of precipitation, heatwaves, etc. in a country/region/local authority?'*
- **User-friendly**: without requiring prior knowledge about climate science.
- **Direct link to solutions**: via Navigator and other tools.
- **Dynamic evolution:** asset layer planned in 2027; super-computing and AI brought in.
- [European Climate Viewer]

Select a **hazard**, a global **warming level**, and the **sector** you want to explore.

Select climate hazard

Search climate hazard...

Heat

- Heatwave
- Changing air temperature
- Temperature variability

Select a global warming level from the reference trajectory

Global warming level → Time horizon

- Current climate → 1991–2020
- +1.5°C → 2030
- +2.0°C → 2050
- +3.0°C → 2100

Select sector

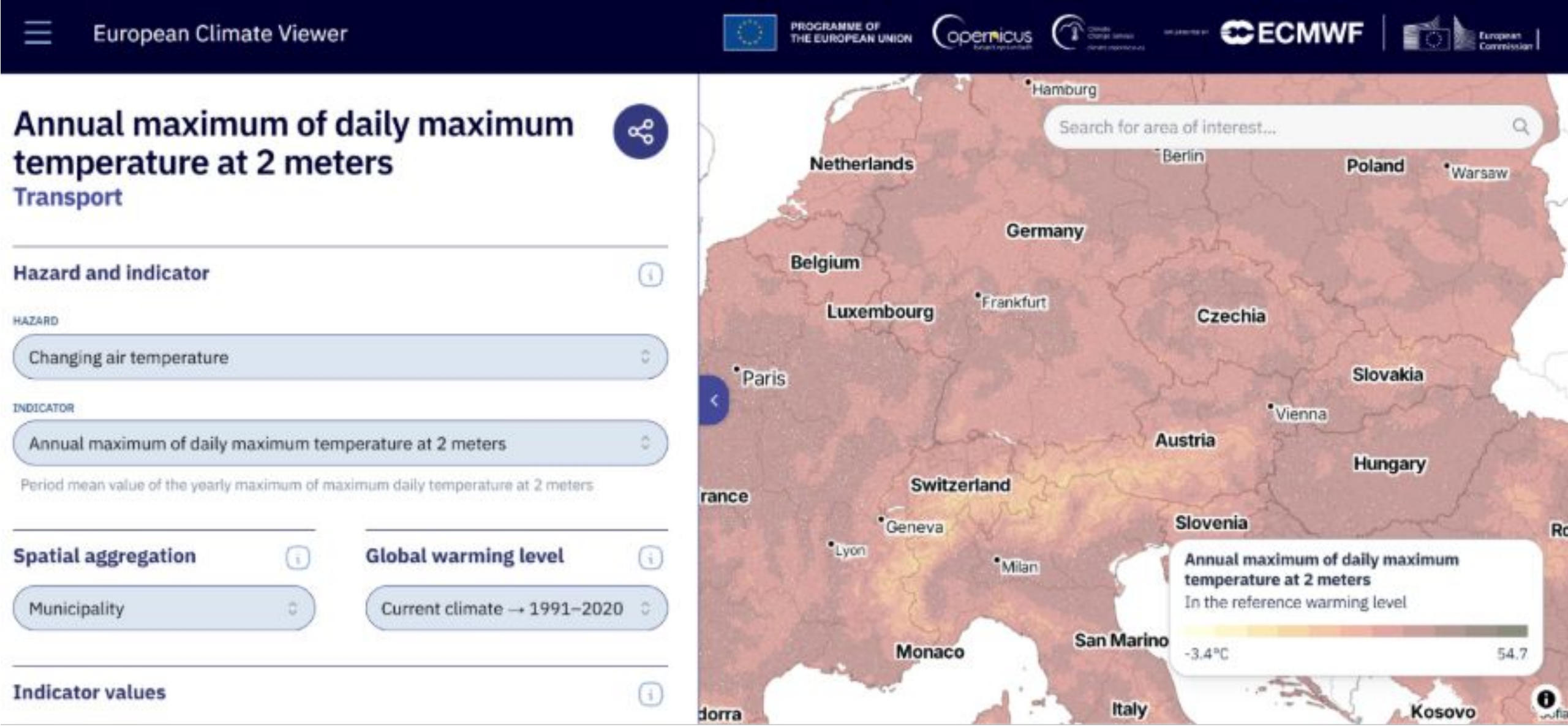
- Built environment and urban

Transport

- Transport
- Land transport
- Sea and coastal transport

Start exploring →

This Viewer provides harmonised climate hazard information across the EU. For more detailed information on climate hazards and adaptation measures, explore the National tools list in the Navigator of Climate Resilience Tools.


European Climate Viewer
PROGRAMME OF THE EUROPEAN UNION
ECMWF
European Commission
Annual maximum of daily maximum temperature at 2 meters
Transport
Hazard and indicator
HAZARD
Changing air temperature
INDICATOR
Annual maximum of daily maximum temperature at 2 meters
Period mean value of the yearly maximum of maximum daily temperature at 2 meters
Spatial aggregation
Municipality
Global warming level
Current climate → 1991–2020
Indicator values
Search for area of interest...
Hamburg
Berlin
Netherlands
Poland
Warsaw
Germany
Belgium
Frankfurt
Luxembourg
Czechia
Paris
Slovakia
Vienna
Austria
Hungary
Switzerland
Geneva
Slovenia
Lyon
Milan
Monaco
San Marino
Italy
Kosovo
Annual maximum of daily maximum temperature at 2 meters
In the reference warming level
-3.4°C
54.7


European Climate Viewer
PROGRAMME OF THE EUROPEAN UNION
ECMWF
Number of wet days
No sector
Hazard and indicator
HAZARD
Precipitation variability
INDICATOR
Number of wet days
Number of days per year with 1mm or more precipitation.
Spatial aggregation
Municipality
Global warming level
+2.0°C → 2050
Indicator values
Search for area of interest...
Denmark
Lithuania
United Kingdom
Ireland
Hamburg
Belarus
Netherlands
Berlin
Poland
Germany
Belgium
Luxembourg
Czechia
Ukraine
Paris
Slovakia
Austria
Hungary
Moldova
France
Switzerland
Slovenia
Romania
Milan
Bosnia and Herzegovina
Monaco
San Marino
Bucharest
Andorra
Italy
Barcelona
Portugal
Spain
Lisbon
Athens
Number of wet days
In the 2.0°C warming level
0.0 days
>180.0



Cross-service linking to bridge the gap to citizens

- DGs contributing to the digital supporting tools:
  - CNECT (via Destination Earth)
  - DEFIS (via Copernicus and the space programme)
  - JRC (including through its Risk Data Hub)
  - RTD (including through the Mission on Adaptation)
- Additional DGs advising:
  - ECHO
- European Institutions delivering the Viewer and the Navigator:
  - European Centre for Medium-Range Weather Forecasts
  - European Environment Agency



Thank you