



# Destination Earth

Building a highly accurate digital replica of the Earth system



Stay informed of key milestones, events and engagement opportunities by subscribing to the DestinE community

[destination-earth.eu](https://destination-earth.eu)

DestinE is a flagship initiative of the European Commission that will support climate change adaptation and mitigation strategies by developing a full digital twin of the Earth. This new information system will encompass unprecedented levels of detail, quality and interactivity, to support policymakers to better respond and adapt to environmental challenges posed by extreme events and climate change.

## Boosting policy effectiveness

Knowledge gained from DestinE simulations will enable policymakers to better understand the impact of potential climate crisis mitigation strategies and make data-driven, effective policy decisions. Combining data from various sources will bring new insights and perspectives on the potential impacts of proposed policies and decisions.

## Stakeholders across all policy levels



### Local

City councils, local governments and local environmental agencies.



### Regional

Regional councils and regional authorities.



### National

Members of parliament, national meteorological and hydrological services and emergency services.



### Continental

European Emergency Coordination Centre, DG CLIMA, European Environment Agency, the Copernicus programme, members of the European Parliament and representatives of the European Commission.



### Ecoregional

Representatives of organisations working at the level of the 14 major ecoregions.



### Global

Representatives of the United Nations, intergovernmental organisations officials and international NGOs.



# Destination Earth

Building a highly accurate digital replica of the Earth system



Stay informed of key milestones, events and engagement opportunities by subscribing to the DestinE community

[destination-earth.eu](https://destination-earth.eu)

DestinE will foster the implementation of the Green Deal and the Digital Strategy of the EU by innovating data harmonisation processes and supporting the design of accurate and actionable adaptation strategies and mitigation measures to:



Anticipate both natural disasters and man-made environmental damage.



Enable investigating what if scenarios to understand consequences of adaptation choices and explore possible future evolutions of our planet.



Help understand the socio-economic effects of climate change.



Help communities adapt to climate change-related challenges.

## Destination Earth Components



### Core Service Platform

User's entry point to the DestinE system, offering evidence-based decision-making tools, applications and services, based on an open, flexible, and secure cloud-based computing infrastructure.



### Data Lake

Data access harmonisation of Digital Twins data and federated providers such as ESA, EUMETSAT, ECMWF, Copernicus and many other sources. Big data processing capabilities provided to allow computing in proximity to the data.



### Digital Twins and Digital Twin Engine

Digital replicas of different aspects of the earth system based on the fusion of cutting-edge simulations and observations, orchestrated with a unified software environment, the Digital Twin Engine.

