



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

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 system. 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.

Advance scientific knowledge and understanding of the Earth system

DestinE data will provide researchers with tools to exchange knowledge, conduct research, validate models, and test hypotheses about the Earth system and some of the complex and interrelated roles that the environment and people will play in the Earth's future.

Stakeholders across all relevant research domains



Biologists



Climate scientists



Environmental scientists and economists



Hydrologists



Meteorologists



Social scientists

...and more!



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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.



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.

