



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. DestinE establishes a novel information system, encompassing 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.

Giving **decision makers** the insights, they need to make a strategic green and digital transition

DestinE data and insights will enable decision makers to guide their strategic decisions in the face of the intertwined challenges of sustainable development, environmental concerns and societal transformation.

Improving climate change and environmental disaster risk management strategies at all policy levels



Local



Regional



International



Continental



Ecoregional



Global



Destination Earth

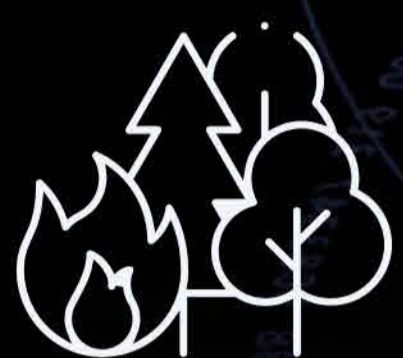
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DestinE will foster the implementation of the EU Green Deal and the Digital Strategy target of a climate-neutral Europe by 2050 by enabling the accurate assessment of the effects of climate change and extremes and by supporting the design of actionable 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.

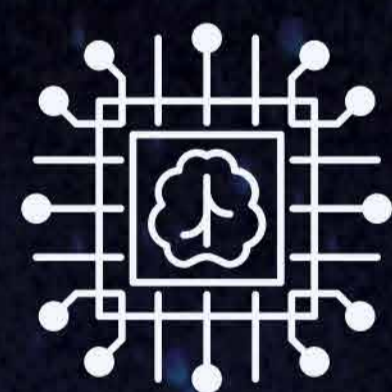


Help understand the socio-economic effects of climate change.



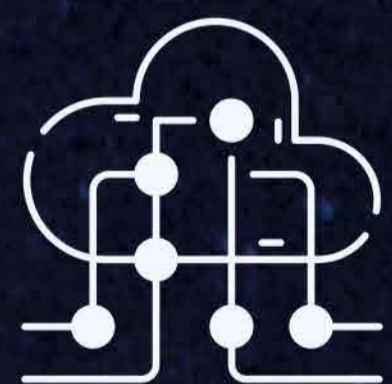
Help communities adapt to climate change and extreme weather related challenges.

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 the 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.

