

DESTINATION EARTH

A DIGITAL REPLICA OF OUR PLANET

Destination Earth (**DestinE**) aims to develop a highly accurate digital model of Earth to monitor the effects of natural and human activity on our planet, anticipate extreme events and adapt policies to climate-related challenges.

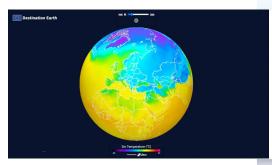












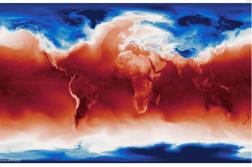
DestinE Platform

The platform will provide evidence-based decision-making tools, applications and services, based on an open, flexible, and secure cloud-based computing infrastructure.



Data Lake

The data lake will bring together data from ESA, EUMETSAT, ECMWF as well as from Copernicus, and many other diverse sources, with new data from the Digital Twins. It will allow discovery and data access as well as big data processing in the cloud.



Digital Twins and Digital Twin Engine

DestinE is creating several digital replicas covering different aspects of the Earth system and based on state-ofthe-art simulations and observations. ECMWF is implementing the Digital Twin Engine, the complex software and data services needed for Earth System digital replicas, as well as the first two digital twins; Climate Change Adaptation, which will provide multidecadal simulations, and the Weather-induced Extremes twin, with both high-resolution forecasts and on-demand simulations.

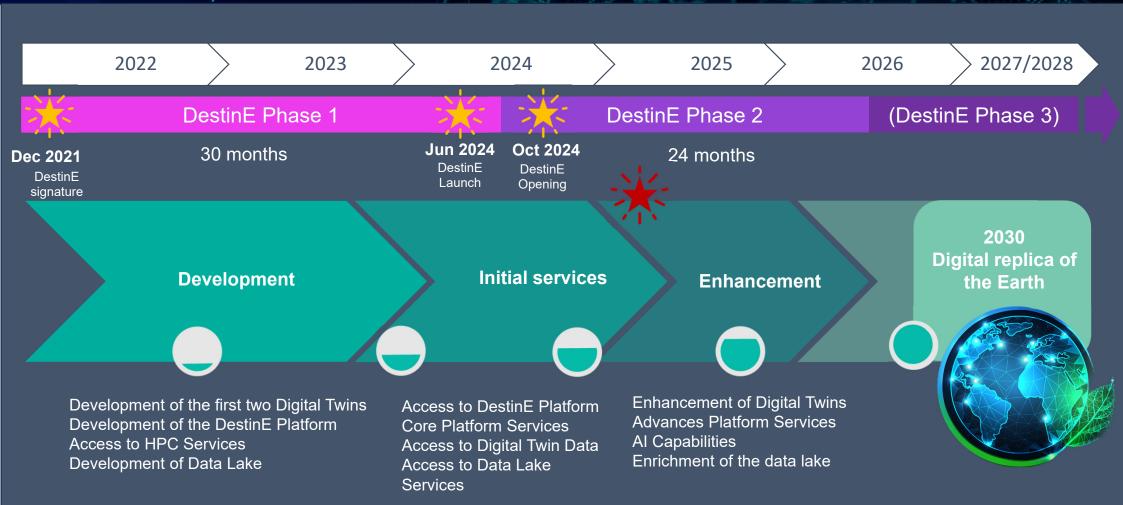






DestinE Timeline

https://destination-earth.eu/











Destine Platform: entry point to Destine

https://platform.destine.eu/





Evidence-based decision making



Climate Change



Cutting-edge infrastructure



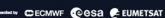
Open & flexible



Collaborative environment





















DestinE Platform: the users

https://platform.destine.eu/



Policy Makers

- European Commission directorates
- European Agencies
- National & European public organizations



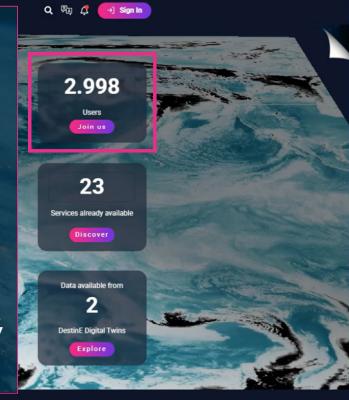
Scientific Community

- National & European Space agencies + Meteorological agencies
- Research centres, academic institutes



Industry

- European industry: tech, climate, energy, weather, tourism, space
- European R&D projects











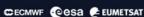
























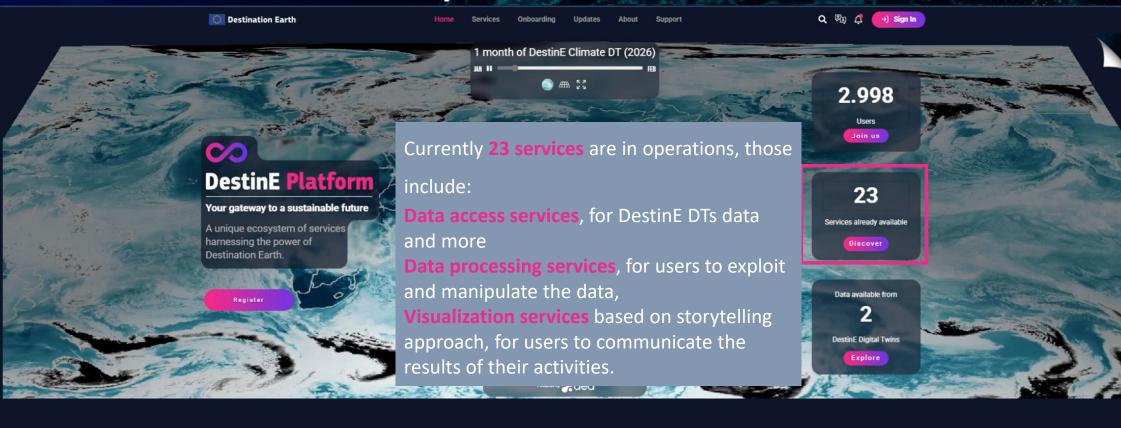


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DestinE Platform: service ecosystem

https://platform.destine.eu/services/





Evidence-based decision making





infrastructure



Open & flexible framework



Collaborative



















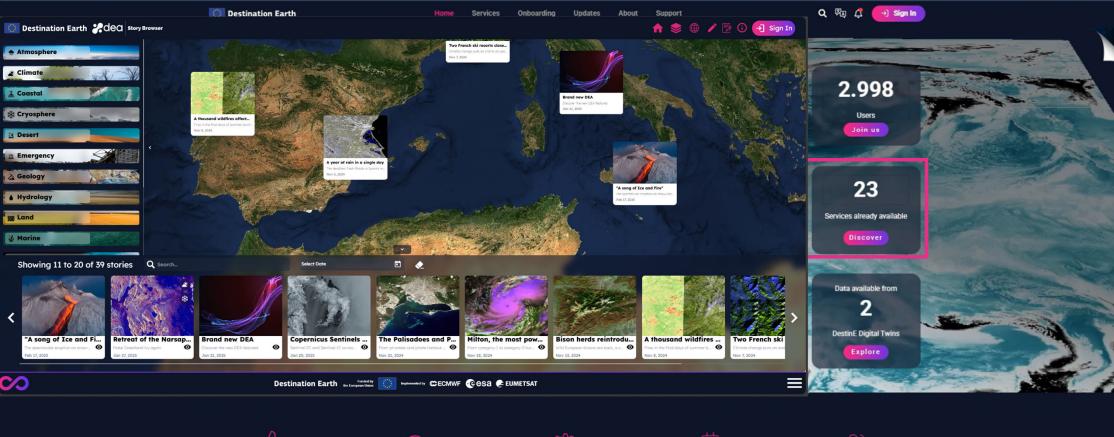






DestinE Platform: Storytelling

https://dea.destine.eu/





Evidence-based decision making



Climate Change



Cutting-edge infrastructure



Open & flexible framework



Collaborative environment



Destination Earth the European Union











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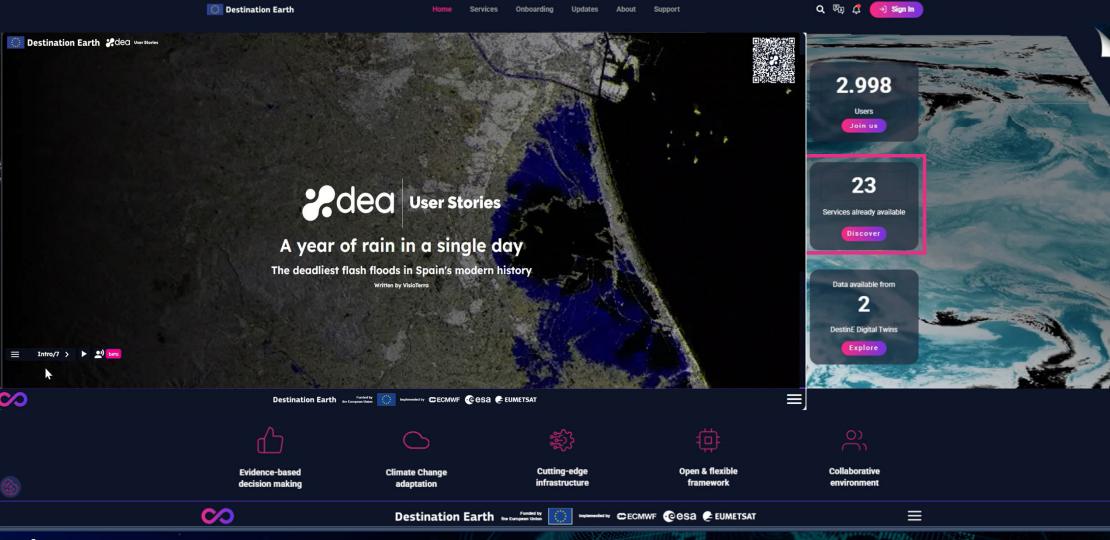






Destine Platform: entry point to Destine

https://dea.destine.eu/





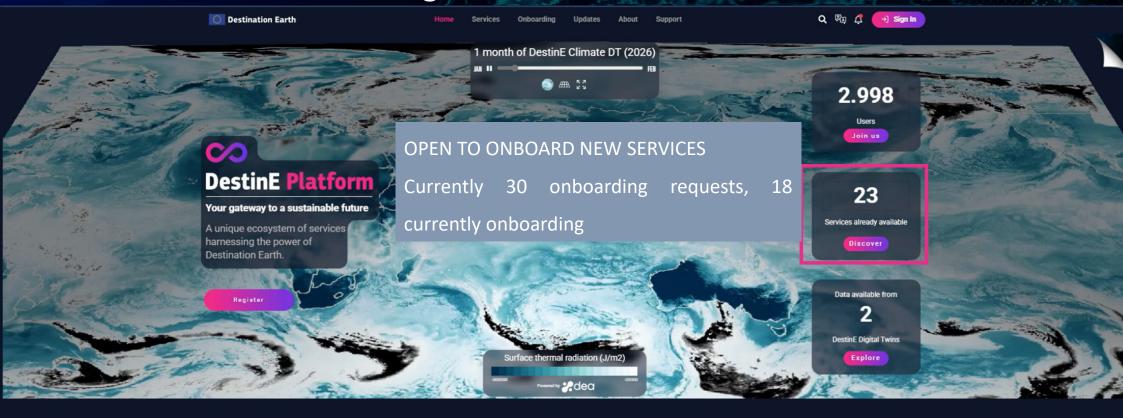






DestinE Platform: Onboarding new services

Onboarding - DestinE Platform/





Evidence-based decision making





Cutting-edge infrastructure



Open & flexible framework



Collaborative environment



























DestinE Platform: entry point to DestinE

https://platform.destine.eu/services/

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	Data Cache Management
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	DestinEStreamer

Data Cache Management

The Data Cache Management Service (DCMS) is a local storage on the DestinE Platform for frequently used data, flexible to be adapted to user needs. It contains a subset of DestinE Digital Twins data in ZARR format and lat-long projection.



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DestinEStreamer

The DestinE Streamer service provides optimized data access through advanced compression and access techniques. Among others, it provides access to DestinE Digital Twins data retrieved from the DCMS.







EDEN

The EDEN service is a service providing access to a variety of datasets. It includes a direct interface to the HAD service to access native DestinE Digital Twins data.



Services already available



HDA

The Harmonised Data Access (HDA) is a service offering a STAC API allowing users to browse through the wide variety of data made available in the DestinE Data Portfolio, including the native DestinE Digital Twins



DestinE Digital Twins

Explore



Polytope

The Polytope service is a service providing access to the full data portfolio of native DestinE Digital Twins data. These native data are shared in healpix projection and in the form of hypercubes.





SesamE0

The SesameEO service is a service providing a direct interface to different data access services making heterogeneous data easily accessible. It includes sources such as the HDA, to retrieve native DestinE Digital Twins data, the local Cache A of DestinE Platform, as well as Copernicus or Eurostat.



Collaborative environment























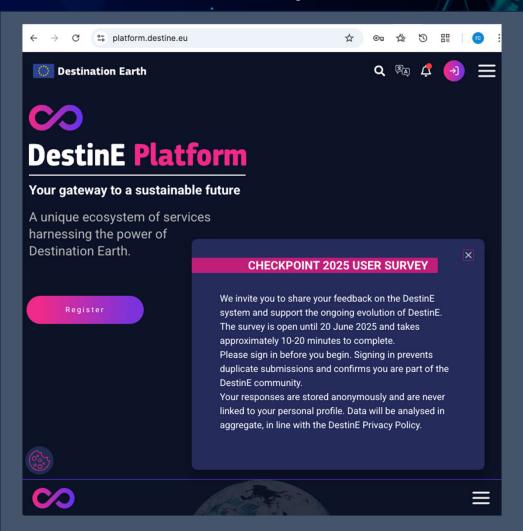








Your feedback is important!



Don't forget to register!





Use the Survey to convey immediate reaction!













4th DestinE User eXchange

June 25 @ 8:00 am - June 26 @ 1:00 pm CEST (3) 1 minute . 😄 AUSTRIA















We're here to support the adoption, use, and co-development of DestinE for your applications.

Let's explore new ideas together — tailored support is just a message away.



Contact us at: engage@destine.eu