

EXPRIVIA WINS 1.4 MILLION EUROPEAN TENDER FOR CLIMATE CHANGE DATA VISUALISATION

The Italian ICT Group Exprivia has won the European tender issued by the European Centre for Medium-Range Weather Forecasts (ECMWF) for the visualization of satellite data on meteorological phenomena. The project is a "milestone" for the advancement of the European Destination Earth initiative.

March 13, 2023. Thanks to the innovative digital data visualization project awarded to Exprivia by ECMWF, Europe's ability to contextualise Extremes prediction and climate change mitigation actions is taking a step forward.

The consortium led by Exprivia proposed an immersive visualization of meteorological phenomena and associated impacts from data generated by the Destination Earth (DestinE) initiative. This European initiative aims at creating a "digital twin" of the Earth to provide predictions of weather-induced Extremes and the impact of climate change scenarios with higher accuracy. The initiative will last eighteen months and is worth €1.4 million.

Destination Earth is a European Union funded initiative launched in 2022, with the aim to build a digital replica of the Earth system by 2030. The initiative will be jointly implemented by three entrusted entities: the European Centre for Medium-Range Weather Forecasts (ECMWF) responsible for the creation of the first two 'digital twins' and the 'Digital Twin Engine', the European Space Agency (ESA) responsible for building the 'Core Service Platform', and the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT), responsible for the creation of the 'Data Lake'

The contract asks for innovative approaches in rendering and visualizing the vast amount and local detail of the DestinE data to enable their efficient use by the community of final users.

The Exprivia solution is planned on a cloud-based technology that enables visualization, monitoring and storage of data in real time through interactions with a "digital twin" of Earth. The innovation in visualizing data from the digital twins is based on techniques used by the gaming industry. The same interactive techniques are going to be used, successfully in the simulations of atmospheric phenomena, with a range of different scenarios where dangerous situations may occur e.g. through floods, heat waves, medicanes, etc.



*"The digital twins of the European program will produce an untold amount of information," comments **Roberto Medri, Head of Aerospace & Defence Market Unit di Exprivia**. "This information will be available for scientists, scholars and researchers through the visualization approach developed by Exprivia. We will support users in understanding data with an immersive experience, increasing their interpretation and facilitating decision-making to combat climate change. For Exprivia, it is a challenge in combining the state-of-the-art technology with the high quality ideas deployed".*

The initiative sees Exprivia heading two industrial partners CGI Italia S.r.l. and MEEO S.r.l. (Meteorological and Environmental Earth Observation) and a scientific partner CMCC (Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici).

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