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Destination Earth digital twin

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How will the impact of severe weather and climate change affect your country or your region and how will you manage the risks of environmental extremes?

To address the need for enhanced prediction capabilities, the European Union has set in motion Destination Earth (DestinE), a visionary initiative to create Digital Twins of the Earth system supporting climate change adaptation policies and decision-making for reducing the impacts of extremes. DestinE will contribute to revolutionising the European capability to monitor and predict our changing planet and complement existing national and European services.

The individual digital twins will produce near real-time, highly detailed and constantly evolving replicas of Earth, including the impact of human activities. Ultimately, the twins will be combined to build a single, highly complex replica of the Earth system that will be more detailed than anything seen before, providing prediction capabilities with an unprecedented level of detail and reliability but also an infrastructure to interact with models and data in new ways.

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