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Destination Earth and Digital Twins - A European opportunity for HPC

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The aim of the Destination Earth (DestinE) action is to support the EU's green transition by providing a new Earth system simulation and observation capability. DestinE's initial focus is on the prediction of weather induced extremes and climate change adaptation through so-called digital twins. These twins will greatly enhance our ability to produce models with unprecedented detail and reliability, allowing policy-makers to anticipate and mitigate the effects of climate change, saving lives and alleviating economic consequences in cases of natural disasters. High-performance computing and data handling sit at the core of the technical developments and DestinE will rely on EuroHPC resources provided by its new generation of pre-exascale systems. In turn, DestinE offers a great opportunity to demonstrate that the EuroHPC investments can produce value for dealing with one of the most important challenges our society is facing.

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