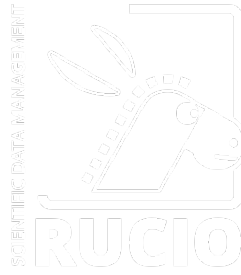Contribution ID: **15**   Type: **not specified**

Rucio and the interTwin project (Remote)

Thursday 10 November 2022 11:10 (20 minutes)

InterTwin is an EU-funded project that has only just started (September 2022). The project will work with domain experts in building the technology to support the emerging field of scientific digital twins. The project will develop, deploy and "road harden" a blueprint for an infrastructure to support a diverse set of science use-cases, in the domains of radio telescopes (Meerkat), particle physics (CERN/LHC and Lattice-QCD), gravitational waves (Einstein telescope), and climate research and environment monitoring (e.g., predicting flooding and other extreme weather from climate change).

By adopting the DataLake model from ESCAPE, interTwin data management will be based on Rucio. Some of the challenges will involve gaining compatibility with HPC facilities (e.g., EuroHPC) and with a related project Destination Earth, with a rather different approach to data management. In addition, new science use-cases may bring new ways of approaching data-management.

In this talk I will give an overview of the interTwin project and how we hope Rucio will help solve the different science use-cases.

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