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## Sharing your scientific data with Rucio

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Rucio is an open-source software framework that provides scientific collaborations the functionality to organize, manage, monitor, and access their distributed data across heterogeneous infrastructures. Rucio was originally developed to meet the requirements of the high-energy physics experiment ATLAS, and is continuously extended to serve a diverse set of scientific communities, from agricultural to radioastronomy. In 2019, Rucio orchestrated more than an Exabyte of data across a billion files on 130+ data centres.

In this contribution we want to address potential future improvements to scientific data managed with Rucio: (1) transparent provisioning of data for interactive analyses, (2) publishing and annotation of data according to FAIR principles, and (3) selective synchronisation of data for users and desktop applications. A special focus across all three topics will be dynamic adaptation of dataflows to protect global system performance.

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