

Open Science in the framework of the ASTERICS Astronomy ESFRI cluster

Abstract:

Astronomical research is facing the challenges of combining data from many different telescopes. The Horizon 2020 'Astronomy ESFRI & Research Infrastructure Cluster' (ASTERICS) addresses the cross-cutting synergies and common challenges shared by the various Astronomy ESFRI facilities (SKA, CTA, KM3Net & E-ELT). ASTERICS will enable astronomers to have broad access to the data products of the ESFRI telescopes via a seamless interface to the Virtual Observatory framework. Embracing the concepts of Science 2.0, open access, and open innovation, ASTERICS aims to increase the scientific impact of the telescopes and greatly encourage use (and re-use) of astronomical 'big data' in new and novel ways.