

FSD Federation of Solar Data



The FSD project aims to enhance FAIR data archiving, curation and sharing, of solar data of the SOLARNET Virtual Observatory (SVO), other astrophysical databases, and the ESCAPE-ESAP science platform. It will do so by leveraging standards established by the SOLARNET project and the International Virtual Observatory Alliance (IVOA).



ESCAPE
Astronomy, Nuclear and Particle
Physics

Challenge

Without adherence to widely accepted data standards, solar data - such as those of SOLARNET and IVOA - remains siloed and difficult to integrate into broader astrophysical and heliophysics research, limiting its potential impact.

Solution

FSD will ensure that existing solar datasets and archives are made FAIR using advanced tools for data archiving, curation and sharing. SOLARNET and IVOA standards will be applied, and suitable network solutions will be adopted, facilitating the integration of solar data into a shared framework accessible to the global astrophysical community.

Scientific Impact

The project will improve seamless access to solar observations and simulations data, benefiting not only the astrophysical community, but also scientists in related fields, such as geophysics, space physics, and meteorology, as well as in applied research.

Partners

Astronomical Institute of Slovak Academy of Sciences, Royal Observatory of Belgium, INAF, IRSOL, Instituto de Astrofísica de Canarias, Leibniz-Institut fuer Sonnenphysik, Stockholm University, University of Oslo

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