

STARS4ALL Pilot

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Entry in the community requirement database: [STARS4ALL](#)

About the pilot

"STARS4ALL (<http://www.stars4all.eu>) was originally a project funded by the European Union H2020 Programme (688135) to create awareness among citizens about the light pollution problem. For this purpose, it deploys a platform to give support to some light pollution initiatives. These initiatives include a photometer network (<http://tess.stars4all.eu>) to continuously monitorize the light pollution, using photometers to measure the sky brightness. In this context, it deploys a platform (<http://tess.dashboards.stars4all.eu>) to show the measurements in some dashboards. Besides the photometer network, STARS4ALL gives support to citizen science initiatives like Cities At Night . All data is published openly in our Zenodo's community (<https://zenodo.org/communities/stars4all>). The project was completed in 2018 but STARS4ALL continues the work through the foundation created for this purpose.

STARS4ALL made an EAP proposal aimed to improve the current infrastructure and prepare for upscaling of the number of photodetectors by:

1. Make their infrastructure more robust
 - Hosting services to mirror/backup the essential data aggregation and management components
2. Improve discoverability of their project & data via
 - B2FIND, B2SHARE
 - GEOSS platform
3. Improve data management practices
 - Deposit also secondary and tertiary data e.g. analysis, publications
 - Introduce Research Objects or Resource bundles for related primary, secondary and tertiary data
 - Use of PIDs for sensors and Resource Objects Improve usability of their data Actionability of the research object links when displayed in B2FIND and B2SHARE
 - Use of Jupyter Notebooks for analyzing observation data directly from Zenodo and B2SHARE

Team

Participant	Role	Name and Surname
STARS4ALL foundation	Community PI	Esteban Gonzalez Guardia (e.g.guardia@gmail.com)
HuC/Meertens	Shepherd	Daan Broeder
SURFsara	B2SHARE technology/service provider	Hans van Piggelen
CSC	B2SHARE technology/service provider	Hari Hirvonsalo
GWDG	B2HANDLE	Ulrich Schwardmann
?	JN service provider	?

Technical Plan

See https://docs.google.com/document/d/15OvHXDt-rUVEaGlvGKxteJS1NAiVPtEsvTS_Dcm57w4/edit?usp=sharing

EOSC services and providers

B2SHARE technology and service provider:

B2FIND technology and service provider

EGI JN Notebook service provider:

PID service provider: