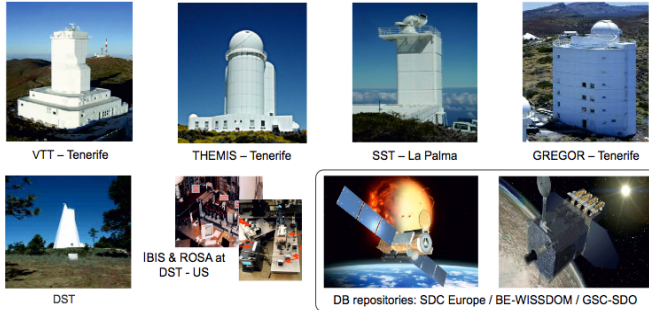


ACTIVITIES 2013-2015: SERVICE

Aimed at offering access to the most advanced, largest first-class infrastructures –telescopes, instruments– and to the most demanded European Science Data Centre for high-resolution ground-based solar physics:



- 318 observing days provided by SST, VTT, THEMIS and GREGOR telescopes, and by IBIS/DST and ROSA/DST instruments (70.5% of the total expected access time to be offered in four years).

- 43 astronomers have benefited from travel and subsistence grants to carry out in situ observations. 20 of them were new users of the infrastructures.

- 47 groups (projects) have accessed the telescopes and instruments offered under the Access Programme

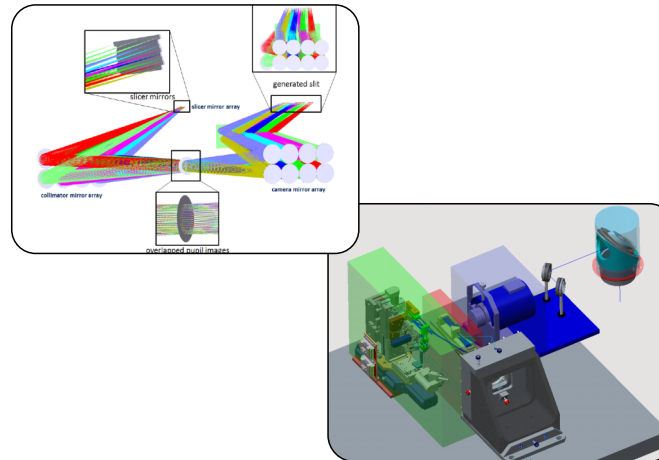
- A total of 218 astronomers (team members) from 18 countries (14 European, 4 non-European) integrated these 47 groups

- A service observing mode is offered as an innovative organizational model for the operation of existing and future ground-based infrastructures.

ACTIVITIES 2013-2015: JOINT RESEARCH

Aimed at developing tools and prototypes for data innovative instruments and data processing and access, the joint research activities are organised in four work packages:

- Tools for Innovative Data Handling: Pipelines, Databases & SVO.
- Advanced Instrumentation Development.
- Wavefront Control: Turbulence Characterization and Correction.
- Synoptic Observations: Solar Physics Research Integrated Network Group (SPRING).



MORE INFO

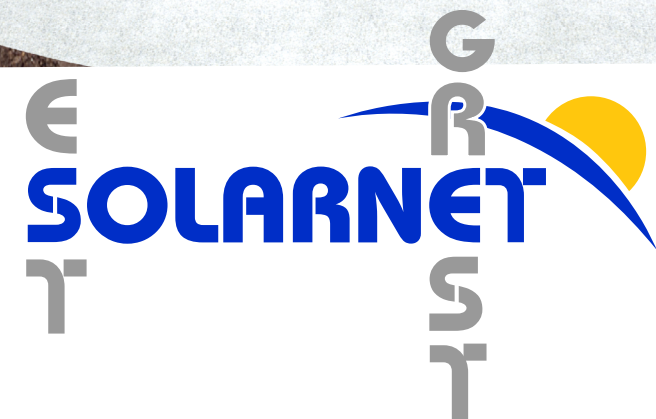
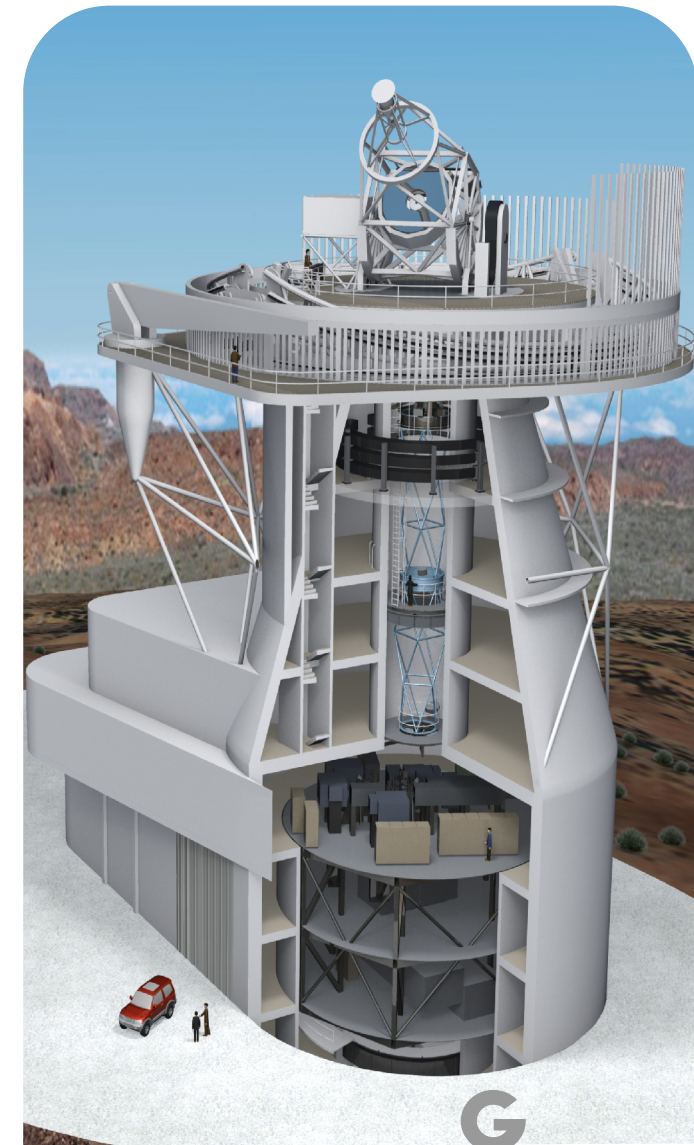
SOLARNET Project Office
 Instituto de Astrofísica de Canarias
 C/ Vía Láctea s/n, La Laguna
 Tenerife E-38205, SPAIN

www.solarnet-east.eu

Phone: 922 605 192

Fax: 922 605 210

E-mail: solarnet@iac.es



WHAT IS SOLARNET?

SOLARNET, the high-resolution Solar Physics Network, is an EU-funded project aimed at a better and wider usage and profit of present European facilities in the field of high-resolution solar physics with the goal of getting prepared for the operation of the next-generation European Solar Telescope.

SOLARNET brings together and integrates the major European research infrastructures in the field of high-resolution solar physics, in order to promote their coordinated use and development.

This network involves all pertinent European research institutions, infrastructures, and data repositories. Together, these represent first-class facilities. The additional participation by private companies and by non-European research institutions maximizes the impact on the worldwide scale.

SOLARNET develops its activities in the period 2013-2017, with a budget of 8.2 M€ (of which, 6.0 M€ represent the EU contribution).

PARTNERS

32 participating institutions:

- 24 EU research institutions
- 6 EU private companies
- 2 USA research institutions.

More than 500 solar physics researchers from 16 countries (15 EU + USA) are participating in SOLARNET.

Coordinator: IAC



GOALS

- Facilitate access to the key European ground-based high-resolution facilities to external European users through an ambitious Transnational Access Programme (TAS).
- Transfer knowledge of data acquisition and data processing to a wide European research community.
- Increase the impact of ground-based high-resolution data, through adequate processing pipelines, accessible databases and powerful Virtual Observatory tools.
- Encourage the combined use of space and ground-based data by providing unified access to data repositories through the Virtual Observatory.
- Foster synergies between different research fields to share scientific interests and challenges.
- Form the new generation of solar researchers with the organization of training schools and a Mobility Programme at European scale.
- Develop prototypes of novel generation instruments.
- Study the effects of local and non-local turbulence and the means for its correction to minimize its impact on image quality.
- Contribute to the improvement of the designs of future large European ground and space-based solar telescopes.
- Reinforce partnership with industry to promote technology transfer through existing networks.
- Disseminate the activities of the project towards society.

This project is supported by the European Commission's FP7 Capacities Programme for the period April 2013 – March 2017 under the Grant Agreement nr. 312495.



STRUCTURE

The project is structured in Networking Activities, Transnational Access and Service Activities and Joint Research Activities, organised in 10 work packages.

ACTIVITIES 2013-2015: NETWORKING

Aimed at fostering a culture of co-operation for research on solar physics and other astrophysical topics. SOLARNET organised in 2013-2015:

- Three thematic Schools and Workshops



- Three Meetings on Solar Physics and Related Topics



- 12 young researchers carried out short stays in 9 European and non-European universities or research institutions
- Four other SOLARNET related meetings and workshops