

Project consortium

Instituto de Astrofísica de Canarias Spain

Istituto Nazionale di Astrofisica Italy

Università degli Studi di Roma Tor Vergata Italy

Max-Planck Gesellschaft Germany

Stockholms Universitet Sweden

University College London – MSSL United Kingdom

Instituto de Astrofísica de Andalucía Spain

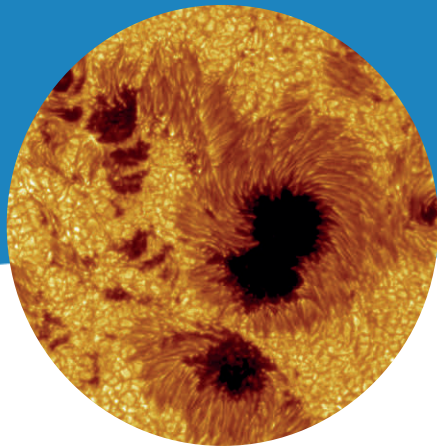
Istituto Nazionale di Ottica Italy

Instituto Nacional de Técnica Aeroespacial Spain

A.D.S. International Italy

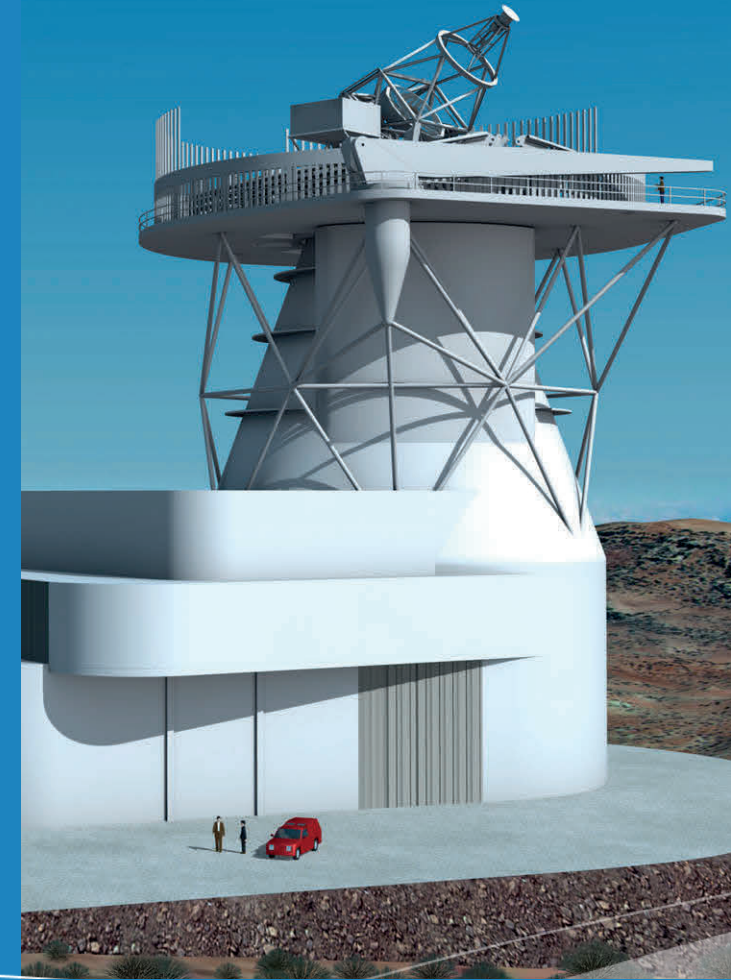
Arcoptix Switzerland

Andor Technology United Kingdom



Canary Islands Observatories

In order to make feasible the achievement of the scientific and technical goals, EST will be located in the best European location: the Canary Islands. Both observatories (the Observatorio del Roque de los Muchachos and the Observatorio del Teide) have repeatedly demonstrated their excellent quality for day and night astronomical observations.



Contact

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The GREST Project

Getting Ready for
European Solar Telescope (EST)



The GREST Project (*Getting Ready for EST*) is an ongoing project to take the European Solar Telescope (EST) to the next level of development by advancing in crucial activities to improve the performance of current state-of-the-art instrumentation. Legal, industrial and socio-economic issues are addressed as key questions for the building of EST .



Project Output

The particular development and strategic tasks proposed here can be summarized in the following specific objectives:

- 1) **Boosting new generation detectors**, with the development of two prototype sensors, one for large-format imaging and another for high-precision polarimetry, the evaluation of an existing large format wavefront sensing camera is also addressed;
- 2) **Development of a capacitance-stabilised Fabry-Perot prototype** for a high quality control of the parallelism of the etalon plates;
- 3) **New techniques for 2D solar spectro-polarimetry** with integral field units based on multi-slit image slicers or a microlens-fed spectrograph;
- 4) **Development of large format liquid-crystal modulators**, required for the large-format sensors that will be needed for the new generation large aperture telescopes;
- 5) **Evaluation of the performance of the EST MCAO deformable mirrors** to improve the design and performance of this system; and
- 6) **Strategic work** to covering industrial, financial and legal issues related the future construction and operation of EST.

With all these elements in hand, **the project will be in the condition to present a definite proposal for detailed design, construction, managing and operation of EST.**

