



Getting Ready for EST

Fact Sheet

Project Information

GREST

Grant agreement ID: 653982

[Project website](#)

DOI

[10.3030/653982](https://doi.org/10.3030/653982)

Project closed

EC signature date

23 April 2015

Start date

1 June 2015

End date

31 May 2018

Funded under

EXCELLENT SCIENCE - Research Infrastructures

Total cost

€ 3 956 730,00

EU contribution

€ 2 977 273,00

Coordinated by

INSTITUTO DE ASTROFISICA DE
CANARIAS



Spain

Objective

The present project is intended to take the European Solar Telescope (EST) to the next level of development by undertaking crucial activities to improve the performance of current state-of-the-art instrumentation. Legal, industrial and socio-economic issues will also be addressed, as key questions for the attainment of EST. The particular developments and strategic tasks proposed here can be summarised in the following specific objectives:

(i) Boosting new generation detectors, with the development of two prototype sensors, one for large-format imaging and the other for high-precision polarimetry, the evaluation of an existing large format wavefront sensing camera is also

addressed;

- (ii) Development of a capacitance-stabilised Fabry-Perot prototype for a high quality control of the parallelism of the etalon plates;
- (iii) new techniques for 2D solar spectro-polarimetry; with integral field units based on multi-slit image slicers or a microlens-fed spectrograph;
- (iv) development of large format liquid-crystal modulators, required for the large-format sensors that will be needed for the new generation large aperture telescopes ;
- (v) evaluation of the performance of the EST-MCAO deformable mirrors to improve the design and performance of this system; and
- (vi) strategic work to covering industrial, financial and legal issues related the future construction and operation of EST. The following issues will be addressed:

- Elaboration of a census of the European solar physics community
- Analysis of the technological expertise of European companies in the different countries and their potential expertise related with the construction needs of EST
- Revision and update of the construction budget of EST
- Stimulation of a discussion of all these aspects within the consortium EAST

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.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [electronic engineering](#) > **[control systems](#)**

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [electronic engineering](#) > [sensors](#) > **[optical sensors](#)**

[natural sciences](#) > [physical sciences](#) > [astronomy](#) > [galactic astronomy](#) > **[solar physics](#)**

[social sciences](#) > [sociology](#) > [demography](#) > **[census](#)**

[natural sciences](#) > [computer and information sciences](#) > [software](#) > [software applications](#) > **[simulation software](#)**



Programme(s)

[H2020-EU.1.4. - EXCELLENT SCIENCE - Research Infrastructures](#)

MAIN PROGRAMME

[H2020-EU.1.4.1.1. - Developing new world-class research infrastructures](#)

Topic(s)

Call for proposal

[H2020-INFRADEV-2014-2015](#) 

[See other projects for this call](#)

Sub call

H2020-INFRADEV-1-2014-1

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



INSTITUTO DE ASTROFISICA DE CANARIAS

Net EU contribution

€ 705 000,00

Total cost

€ 838 750,00

Address

CALLE VIA LACTEA

38205 San Cristobal De La Laguna

 **Spain** 

Region

Canarias > Canarias > Tenerife

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (12)



ISTITUTO NAZIONALE DI ASTROFISICA

 Italy

Net EU contribution

€ 370 000,00

Address

VIALE DEL PARCO MELLINI 84

00136 Roma 

Region

Centro (IT) > Lazio > Roma

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 370 000,00



UNIVERSITA DEGLI STUDI DI ROMA TOR VERGATA

 Italy

Net EU contribution

€ 201 500,00

Address

VIA CRACOVIA 50

00133 Roma 

Region

Centro (IT) > Lazio > Roma

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 201 500,00



MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV

 Germany

Net EU contribution

€ 503 750,00

Address

HOFGARTENSTRASSE 8

80539 Munchen 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 645 000,00



STOCKHOLMS UNIVERSITET

 Sweden

Net EU contribution

€ 42 500,00

Address

UNIVERSITETSVAGEN 10

10691 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

Total cost

€ 42 500,00



THE QUEEN'S UNIVERSITY OF BELFAST

 United Kingdom

Net EU contribution

€ 54 306,00

Address

UNIVERSITY ROAD LANYON BUILDING
BT7 1NN Belfast 

Region

Northern Ireland > Northern Ireland > Belfast

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 82 177,50



UNIVERSITY COLLEGE LONDON

 United Kingdom

Net EU contribution

€ 126 342,00

Address

GOWER STREET
WC1E 6BT London 

Region

London > Inner London — West > Camden and City of London

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 157 927,50



AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS

 Spain

Net EU contribution

€ 194 062,50

Address

CALLE SERRANO 117

28006 Madrid 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 194 062,50



CONSIGLIO NAZIONALE DELLE RICERCHE

 Italy

Net EU contribution

€ 20 000,00

Address

PIAZZALE ALDO MORO 7

00185 Roma 

Region

Centro (IT) > Lazio > Roma

Activity type

Research Organisations

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 20 000,00



INSTITUTO NACIONAL DE TECNICA AEROESPACIAL ESTEBAN TERRADAS

Spain

Net EU contribution

€ 194 062,50

Address

CR TORREJON AJALVIR KM 4 2
28850 Torrejon De Ardoz Madrid

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Research Organisations

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 194 062,50



A.D.S. INTERNATIONAL SRL

Italy

Net EU contribution

€ 285 750,00

Address

VIA PIO GALLI SINDACALISTA 3
23841 Annone Di Brianza

SME

Yes

Region

Nord-Ovest > Lombardia > Lecco

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- Contact the organisation
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 285 750,00



ARCOPTIX SA

Switzerland

Net EU contribution

€ 0,00

Address

FAUBOURG DE LA GARE 5A
2000 Neuchatel

SME

Yes

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Neuchâtel

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- Contact the organisation
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 152 500,00



ANDOR TECHNOLOGY LIMITED

 United Kingdom

Net EU contribution

€ 280 000,00

Address

**MILLENNIUM WAY 7 SPRINGVALE BUSINESS PARK
BT12 7AL BELFAST** 

Region

Northern Ireland > Northern Ireland > Belfast

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 772 500,00

Last update: 8 August 2022

Permalink: <https://cordis.europa.eu/project/id/653982>

European Union, 2025