European Solar Telescope

- With a 4.2-metre primary mirror, it will be the biggest solar telescope in Europe
  
  - Superb spatial resolution
  
  - Excellent polarimetric performance
  
  - Adequate set of instruments
EST Scientific partners

EAST
European Association for Solar Telescopes

Bringing together research groups from 18 European countries

EST became an ESFRI Strategic European Infrastructure in March 2016
How is the project organized?

- EST Project Office is the project global architect
  - Defining specifications
  - Contracting industry
  - Assembling the parts to build EST
- EST partners contribute with cash and/or in kind contributions.
- Instruments are created by a Consortium led by research institutions.
- The design study has been done. On-going preliminary design. Detailed design and construction for 2023.
EST Timeline

PREPARATORY PHASE + CONSTRUCTION

200 M€
EST Site

Observatorio del Roque de Los Muchachos

La Palma, Canary Islands, Spain
EST Optical path
10 first generation instruments

- 4 Integral Field Units
10 first generation instruments

- 3 Tunable Band Imagers
- They scan a 2D field of view for a narrow spectral position

Courtesy of Dr. de la Cruz Rodriguez (Stockholm University)
10 first generation instruments

- 3 Fixed Band Imagers

- They work at a single spectral band and they are used for context imaging

Daniel K. Inouye Solar Telescope, first-light images taking at the 709 nm molecular band
Call for tender under evaluation

- Preliminary design for:
  - Primary mirror
  - Secondary mirror
  - Structure, pier and dome
Future call for tender 1

- **Scope:**
  - Preliminary design of the **heat rejecter** for EST

- **Expected publication date**
  - 2021 Q1

- **Expected duration:**
  - 1 year

- **Expected price:**
  - 200k€
Future call for tender 2 and 3

- **Scope:**
  - Opto-mechanics preliminary design:
    - Transfer optics and polarimetric calibration.
    - Pier Optics Path
- **Expected publication date**
  - 2021 Q4
- **Expected duration:**
  - 1 year
- **Expected price:**
  - 250k€
  - 120k€
Future call for tender 4

- **Scope:**
  - Design building, civil works and facilities. Preliminary

- **Expected publication date**
  - 2021 Q1

- **Expected duration:**
  - 1 year

- **Expected price:**
  - 100k€
Future call for tender 5

- **Scope:**
  - Design main building, auxiliary building, facilities, civil works.

- **Expected publication date**
  - 2021 Q4

- **Expected duration:**
  - 2 years

- **Expected price:**
  - 650k€
Present Funding

Countries

Funding Agencies
Thank you!!

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*EST* system engineer
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For on-going call for tender:
[http://www.est-east.eu/procurements](http://www.est-east.eu/procurements)
contratacion@iac.es

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