



cherenkov
telescope
array



Astrofisica con Specchi
a Tecnologia Replicante Italiana

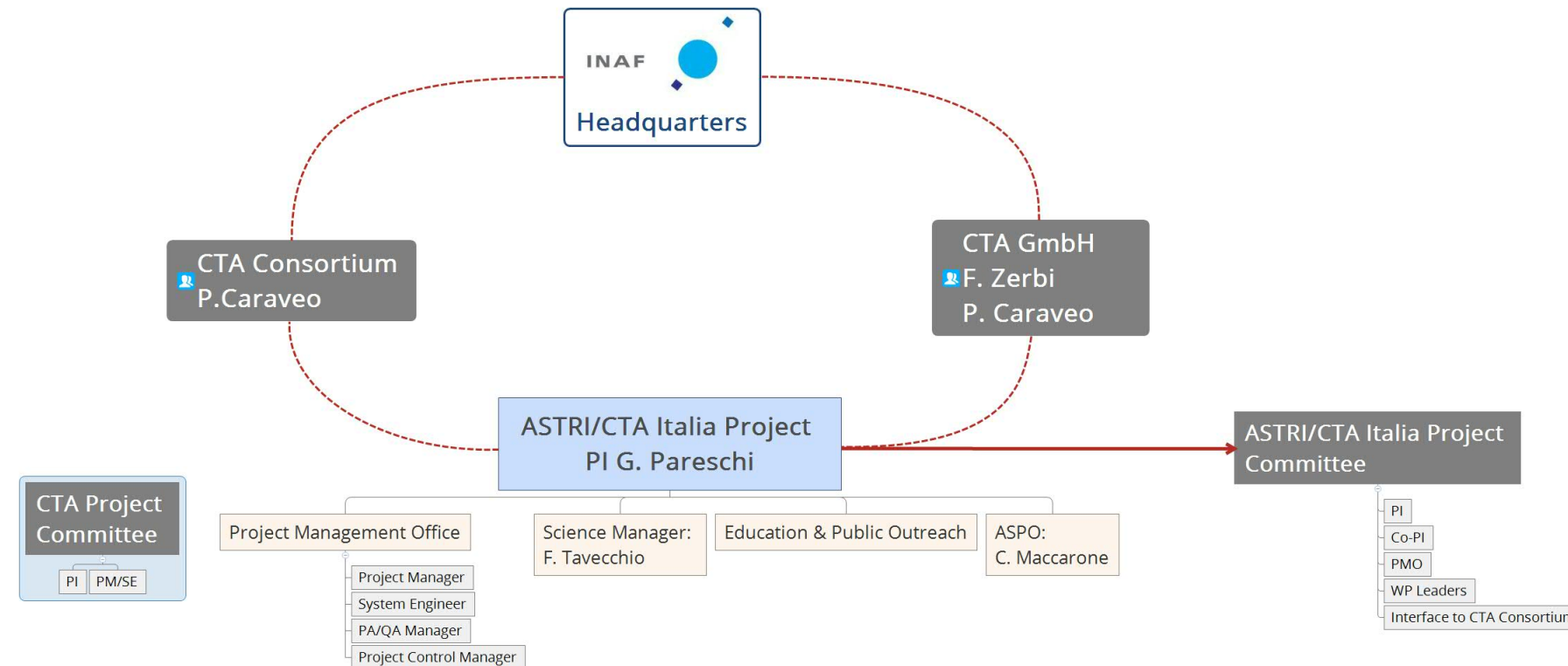


Universidade de São Paulo

Il progetto ASTRI

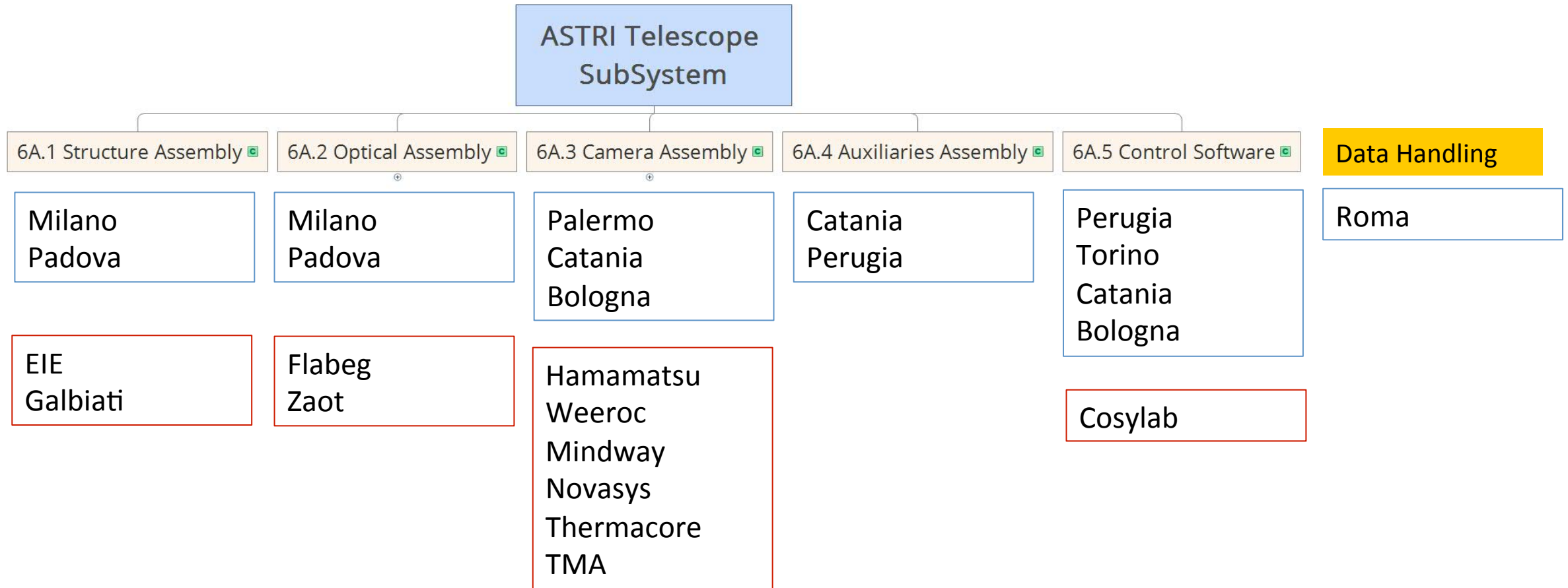
Salvo Scuderi – INAF Catania

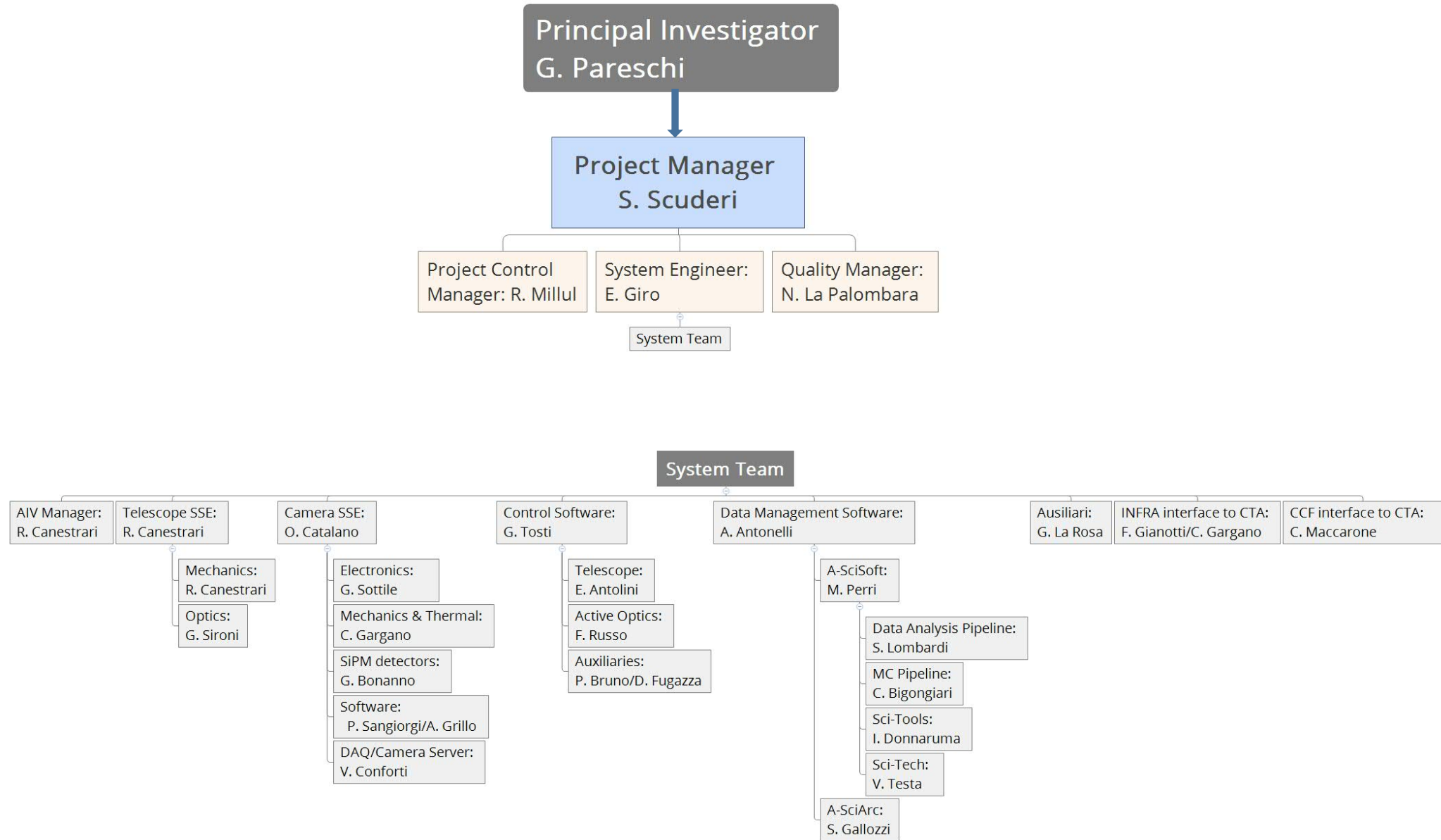




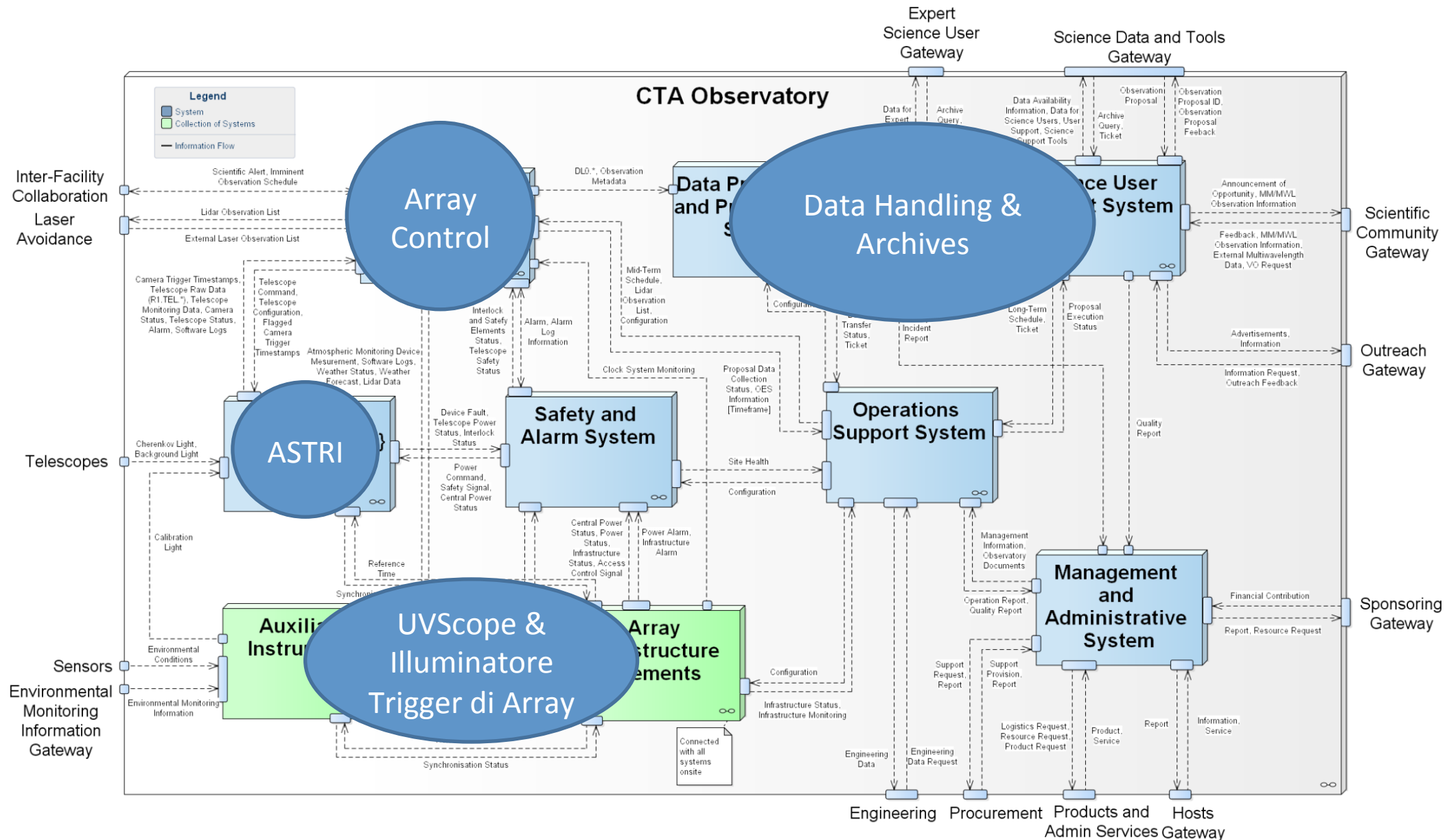
ASTRI Project Committee

- PMO
- Principal Investigator – Giovanni Pareschi (OAB)
 - Project Manager – Salvo Scuderi (OACT)
 - System Engineer – Enrico Giro (OAPD/OAB)
 - Project Control Manager – Rachele Millul (IASFMI)
 - QA Manager – Nicola La Palombara (IASFMI)
 - Project Scientist – Fabrizio Tavecchio (OAB)
 - SSE Telescope & AIV Manager – Rodolfo Canestrari (OAB/IASFPA)
 - SSE Camera Cherenkov – Osvaldo Catalano (IASFPA)
 - SSE Control Software – Gino Tosti (UNIPG)
 - SSE Data Management Software – Angelo Antonelli (OA Roma)
 - Deputy AIV Manager – Giorgia Sironi (OAB)
 - ASPO Manager: Cettina Maccarone





- Elisa Antolini – Software di controllo – AdR – UniPerugia
- Vito Conforti – DAQ Camera – TD – IASFBO
- Federico Russo – Software di controllo – OATo - AdR
- Salvo Garozzo – Firmware Camera – OACT – AdR
- Giuseppe Romeo – Caratterizzazione Camera – OACT – AdR
- Davide Marano – Firmware Camera – OACT – AdR
- Alessandro Grillo – Software di controllo – OACT – TD
- Carmelo Gargano – Termomeccanica Camera – IASFPA – TD
- Domenico Impiombato – Caratterizzazione Camera – IASFPA – Borsa di Studio
- Pierluca Sangiorgi – Software di controllo – IASFPA – TD
- Rodolfo Canestrari – AIV Manager – OAB – TD
- Giorgia Sironi – Ottiche – OAB – AdR
- Ciro Bigongiari – Montecarlo – OARoma/SSDC – TD
- Saverio Lombardi – Data Handling – OARoma/SSDC -TD
- Fabrizio Lucarelli – Data Handling – SSDC – TD
- Francesco Visconti – Data Handling – SSDC – Post Doc
- Martina Cardillo – Data Handling – IAPS - AdR
- Giovanni Piano – Data Handling – IAPS – AdR
- Rachele Millul – Project Management – OAB – TD



Attività nel Project Office di CTA

- **Gino Tosti – Gruppo di ingegneria di sistema (riconosciuto IKC INAF)**
- **Fulvio Gianotti – Consulente per INFRA – Gruppo monitoraggio ICT**
- **Andrea Bulgarelli – Consulente per Use Cases**

Due Siti

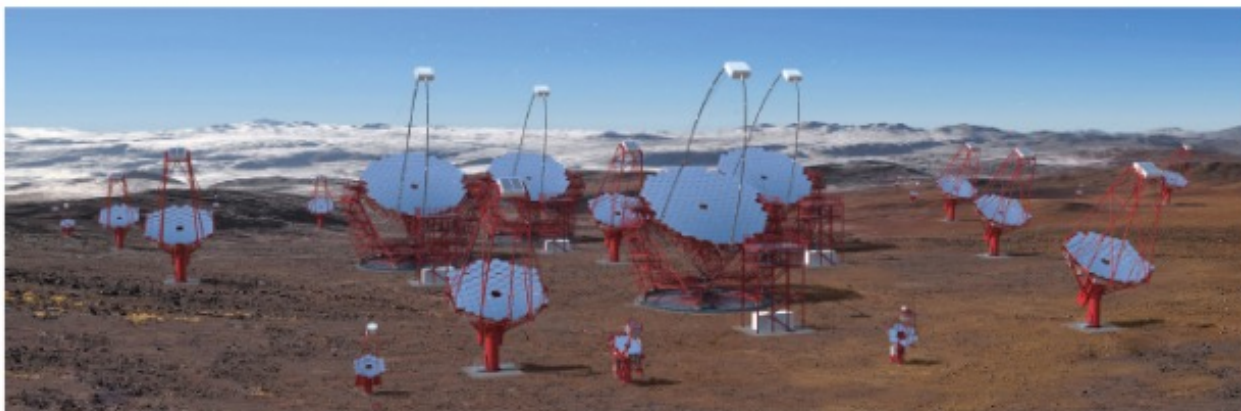


image credit:
Gabriel Pérez Díaz, IAC

In fact, the expectation for the rate of gamma rays is only one per metre squared per year from a bright source, or one per metre squared per century from a faint source. To improve its ability to detect gamma rays, CTA will split more than 100 telescopes between two array locations – one in the northern hemisphere and one in the southern hemisphere to explore the entire sky.

Northern Hemisphere Site

CTA's northern hemisphere site is located on the existing site of the Instituto de Astrofísica de Canarias' (IAC's) Observatorio del Roque de los Muchachos on the island of La Palma, a Spanish island in the Canary Islands. At 2,200 metres altitude and nestled on a plateau below the rim of an extinct volcanic crater, the site currently hosts the two MAGIC Cherenkov telescopes. The northern hemisphere array will be composed of 19 telescopes and will focus on CTA's low- and mid-energy ranges from 20 GeV to 20 TeV.

Southern Hemisphere Site

The southern hemisphere site is less than 10 km southeast of the European Southern Observatory's (ESO's) existing Paranal Observatory in the Atacama Desert in Chile, which is considered one of the driest and most isolated regions on earth – a dark paradise for stargazers. The southern hemisphere array will span the entire energy range of CTA, covering gamma-ray energies from 20 GeV to more than 300 TeV with 99 telescopes spread over 4 square kilometres.

Threshold

- 4 LST
- 5 MST

Baseline

- 4 LST
- 15 MST

Threshold

- 15 MST
- 50 SST

Baseline

- 4 LST
- 25 MST
- 70 SST

Real

