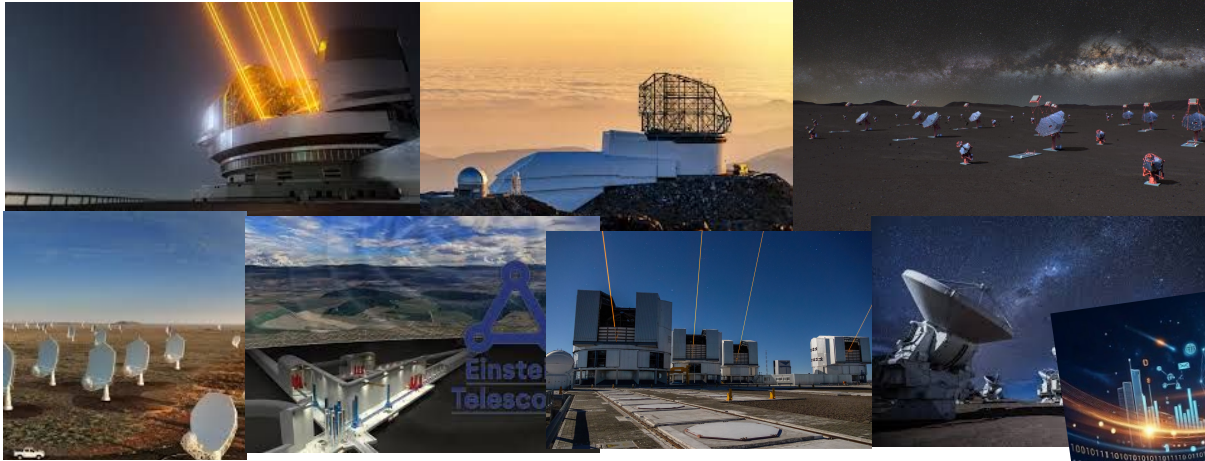
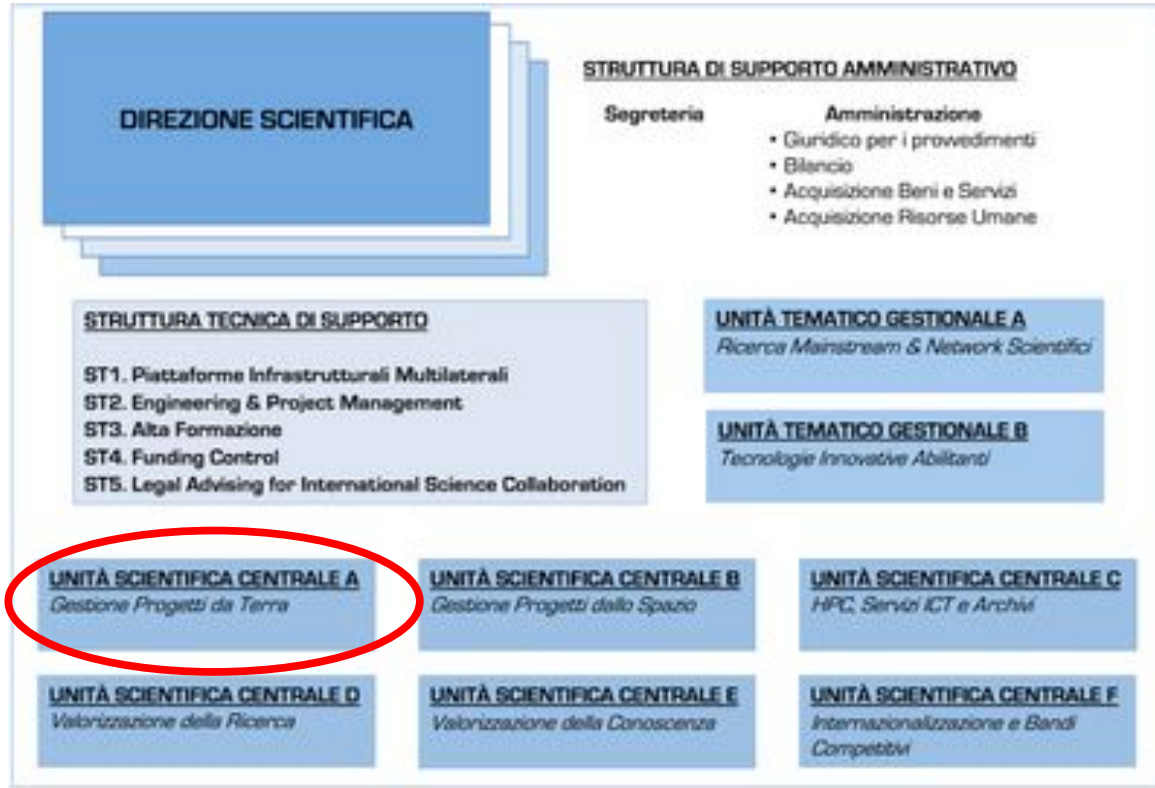


# Progetti da terra: prospettive per RSN5



Marcella Marconi (INAF-OACn)  
INAF USC-A





TNG



VST



LBT



REM



# Radio Telescopes in Italy

Noto (32m), Siracusa



Medicina (32m), Bologna



SRT (64m), San Basilio

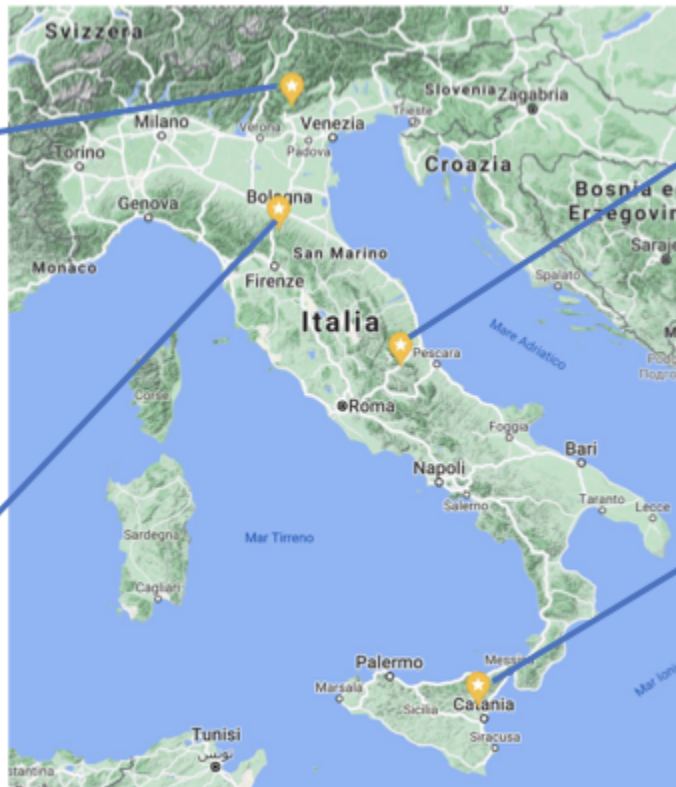


*Credits: Federica Govoni*

# ....and there are also the small italian telescopes



**Asiago/Cima Ekar - 1400m asl  
INAF - OA Padova**



**Campo Imperatore - 2200m asl  
INAF - OA Abruzzo**



**Loiano - 800m asl  
INAF - OAS Bologna**



**Serra la Nave - 1700m asl  
INAF - OA Catania**

## USC A projects

- “Opt-NIR”

ADONI, ANDES, CUBES, ERIS, ESPRESSO, LBTITA, LOCNES, LSST, MASTER, MAVIS, MICADO, MOONS, MORFEO, MOSAIC, NIRVANA, PCS R&D Roadmap, SAXO+, SHARK-NIR, SHARK-VIS, SOXS, TETIS, TNG, VST, WEAVE.

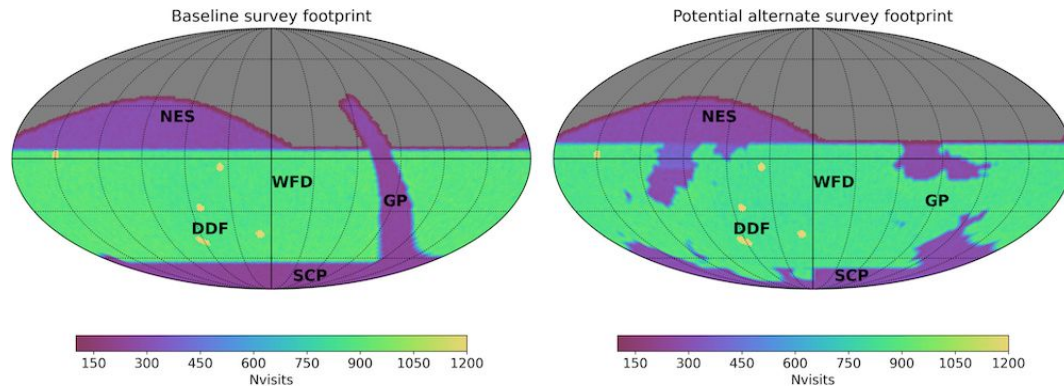
- Radio  
(SRT, LOFAR, MEERKAT, SKA, VLBI)

-Nodo italiano dell’ALMA Regional Centre europeo.

- Other ground-based projects (TBD)

# INAF is involved in Rubin-LSST

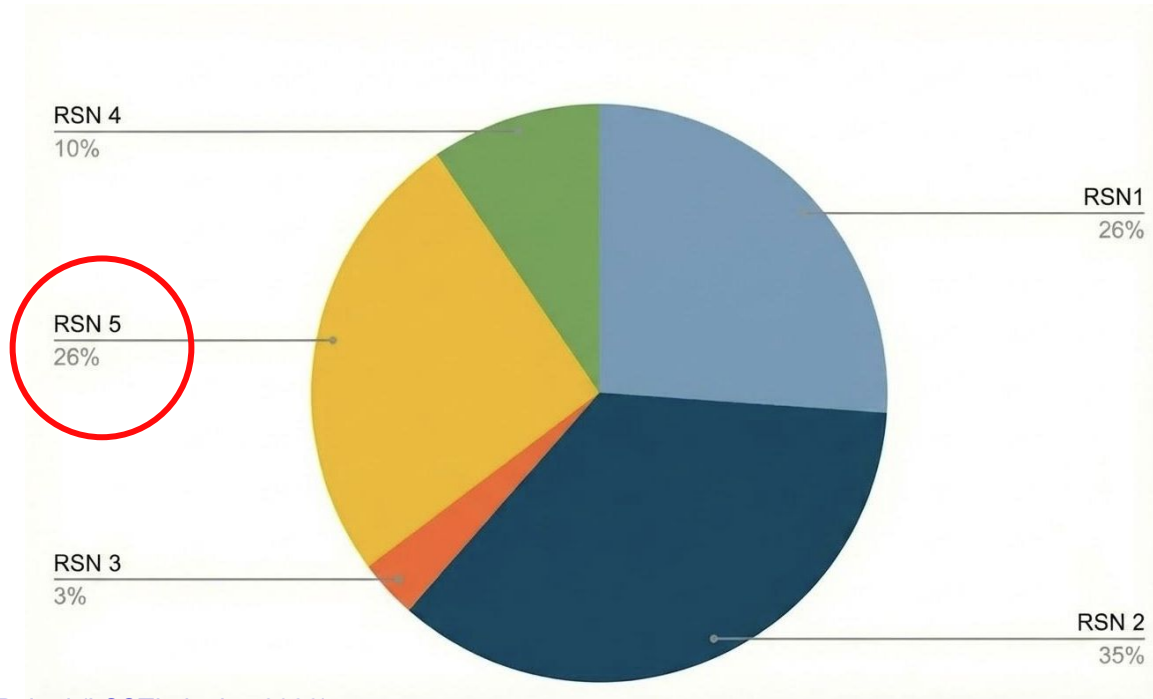
- **Southern optical sky sampled to 27 mag and millions of transients with hourly to yearly variability observed by Rubin/LSST**



The **Vera Rubin Observatory**, thanks to the telescope size and speed and to the camera sensitivity, was specifically designed to help **answer key questions** concerning **time-domain, Solar System, MW, cosmology**

# The italian participation

Almost 200 Italian scientists interested. In-kind contribution program led and funded by INAF



Credits. Claudia Raiteri (LSSTItaly day 2026)

## The VLT system

### Ongoing Developments

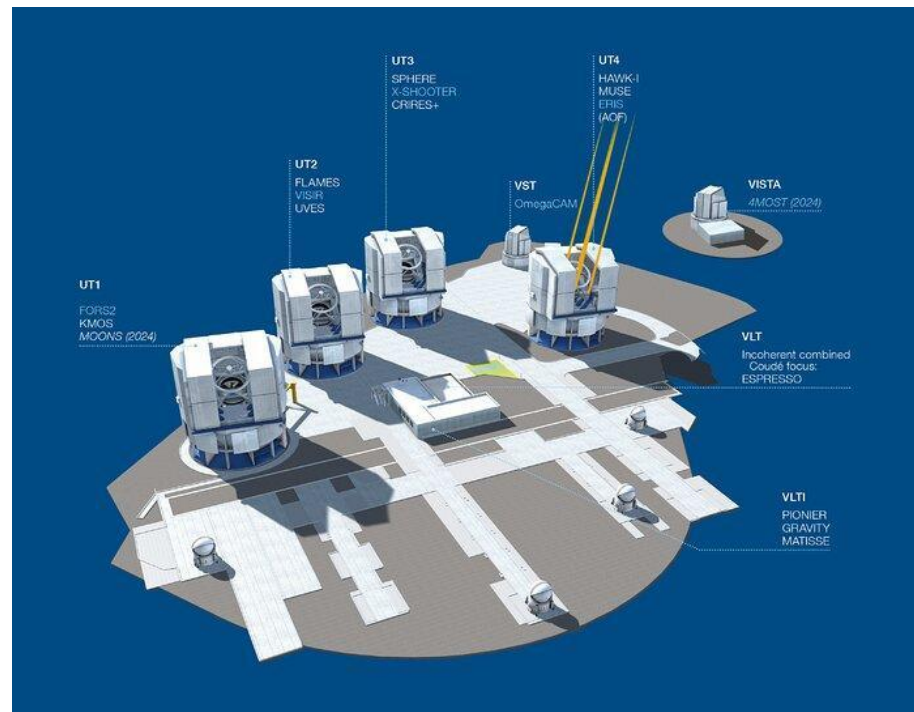
- 4MOST @ VISTA
- GRAVITY+ @ VLTI

### Next Development:

- MOONS @ UT1

### 2029+:

- MAVIS @ UT4
- CUBES @ UT2



## The VLT system

### Ongoing Developments

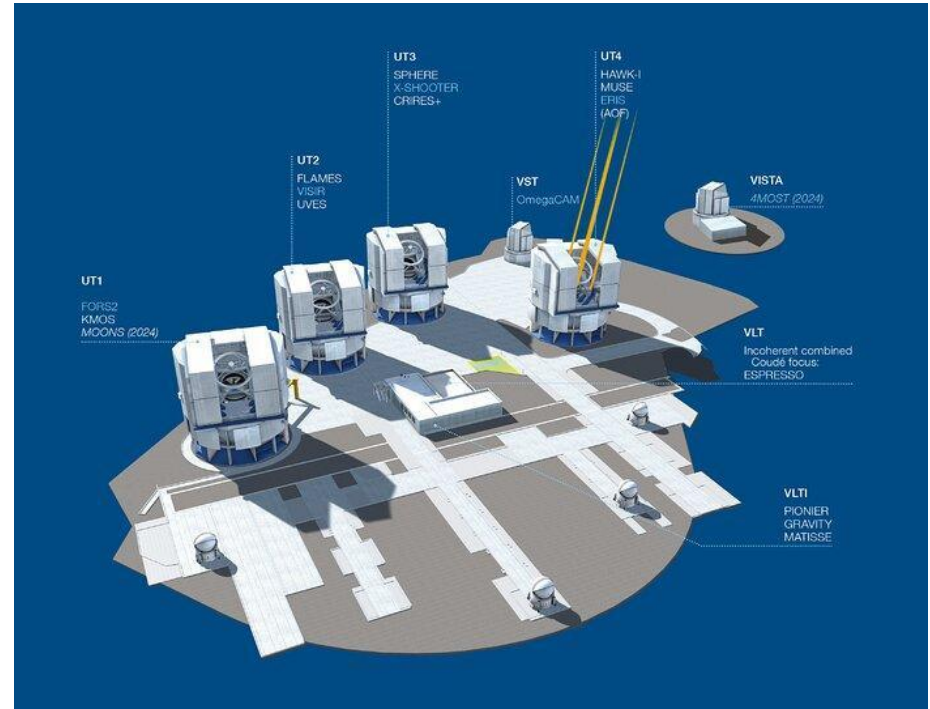
- 4MOST @ VISTA ← **INAF**
- GRAVITY+ @ VLTI

### Next Development:

- MOONS @ UT1 ← **INAF** USC A

### 2029+:

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## The VLT system

### Ongoing Developments

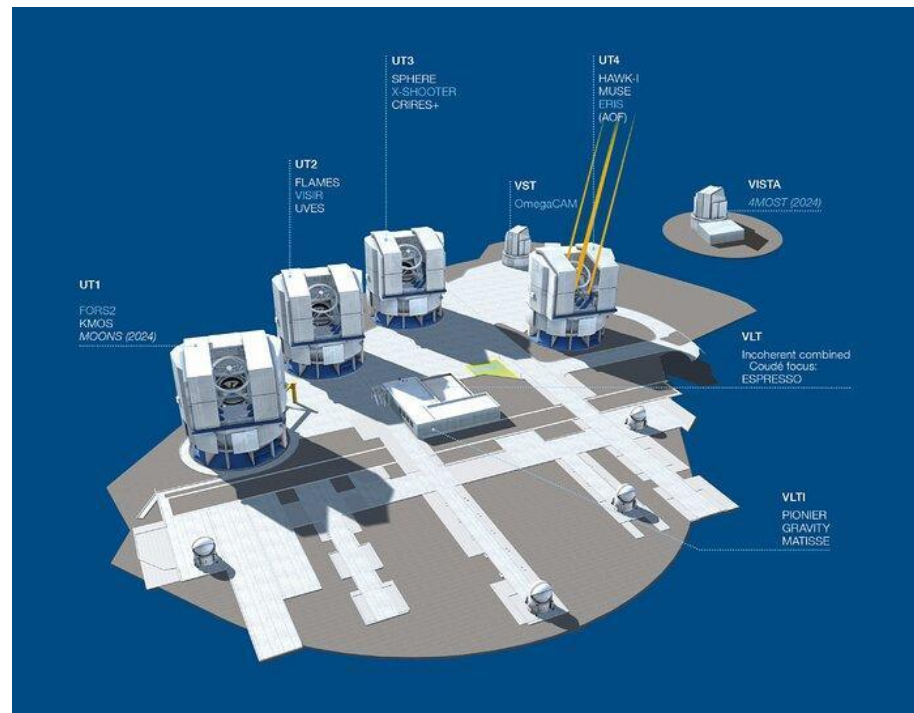
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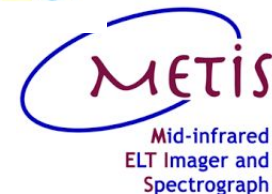
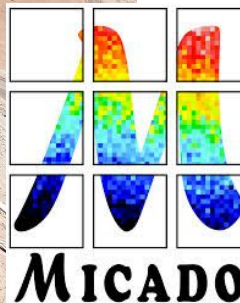
### 2029+:

- MAVIS @ UT4
- CUBES @ UT2 ← INAF PI

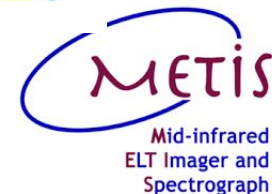
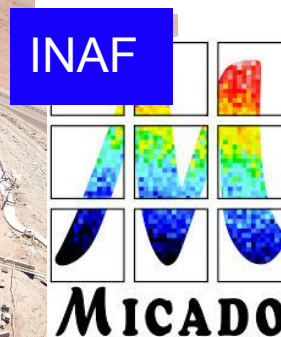


# The international scenario is rapidly changing

## The ELT and its instruments



## The ELT and its instruments



# The international scenario is rapidly changing

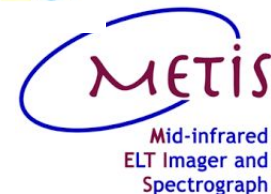
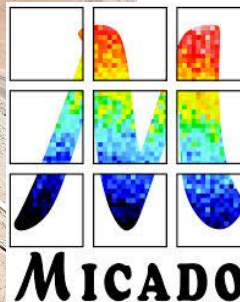
## The ELT and its instruments



INAF PI



Italian PI



## SKAO

SKA low



SKA mid



# Activities

Monitoring and collection inputs/requests from PIs and new appointments + sustainability.

→ Steering Committees, Institutional Boards, official document revision.

Coordination of activities to maximize the scientific exploitation and the employment of resources.

→ Meeting organization, visits to INAF structures, constitution of teams (e.g. forum radio) and working groups.

Sharing information, ideas, and results with the community.

→ e.g. Newsletter of USC A (in progress)

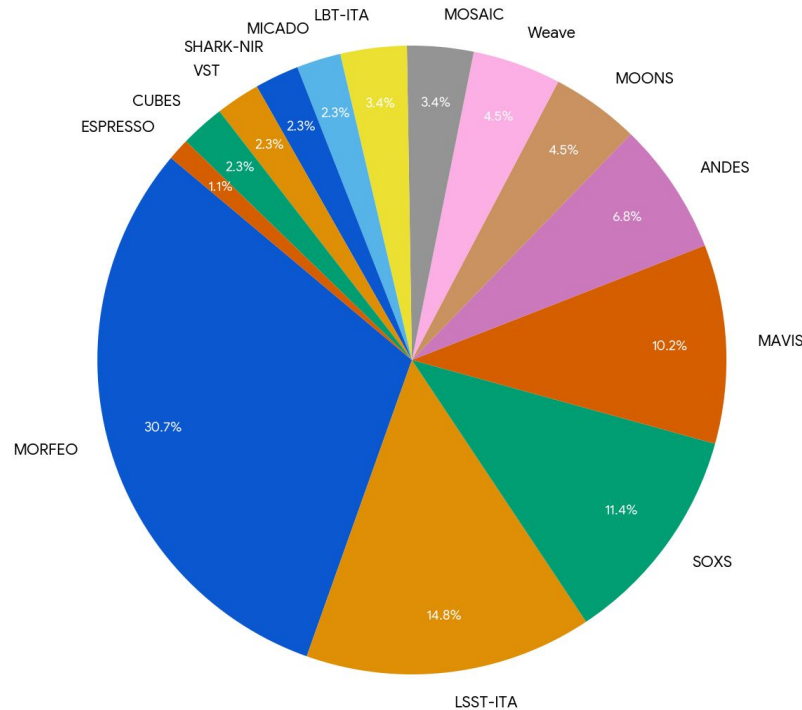
# Monitoring and sustainability

For the opt-NIR projects need to plan requests of funds and human resources.

→ Cash flow profile of the funds requested by each project between 2027 and 2035.

# Monitoring and sustainability

Looking only at Opt-NIR ground based projects: 88 TD/AdR



Data based on fund requests for 2026

## Events in 2026

- **Rubin-LSST Italia Day, January 20** (<https://indico.ict.inaf.it/event/3418/>)
- **Meeting della strumentazione ELT a guida italiana, May 12-15** (<https://indico.ict.inaf.it/event/3450/overview>) to be held in Capodimonte (Auditorium Nazionale “Ernesto Capocci”) in collaboration with UTG A and B.

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- Possible meeting on the italian contribution to the VLT beyond 2030 initiative (UTG-B et al.)
- Possible meeting on italian radioastronomy and synergies with other wavelenghts/communities (maybe beginning of 2027)

## Coordination of activities

INAF telescopes → toward a shared call and yearly cycle proposal submission interface, more homogeneous acquisition and scheduling of observations.

Constitution of a forum of italian radioastronomy → meeting every 2 months, working groups on specific topics/activities are foreseen.

Better integration of projects with local situations and needs.