

TETIS

TEchnologies for Telescopes and Instrument control Software

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and the TETIS Collaboration*

TETIS (TEchnologies for Telescopes and Instrument control Software) is a Coordination Unit within the INAF UTG1 OptNIR Division (Divisione per l'Astronomia Ottica e IR), born to fulfill the need for a "coordination of interests, activities, tools and expertise" of all INAF technological groups involved in the development of telescopes and instruments control software.

The original proposal for TETIS has been subscribed by 20 INAF researchers with expertise in the design and development of control SW for both ground based and space based astronomical instrumentation working in several different wavelength ranges.

RATIONALE AND ACTIVITIES

TETIS aims to **develop synergies** networking the knowledge and skills acquired by the participating groups, and **supporting the level of excellence** achieved, through the acquisition of tools, hardware and software, to support the activities, as well as training to improve skills in new technologies, strategic in the near future.

Main activities foreseen:

- periodic workshops to exchange information and experiences, discuss and share approaches and methodologies and start new collaborations
- activation of collaboration software instruments, using the infrastructure made available by INAF, through the G Suite platform, for "generic" collaboration activities (eg. document sharing), but in particular through specific tools, eg. repository of software models
- organization of courses and trainings online and in-person on themes of common interest.

ORGANIZATION

TETIS organization is informal and flexible, as typical for a collaboration. A Management Committee meets periodically via video conference. Meetings are moderated by a Coordinator. Currently this role is covered by Andrea Baruffolo (INAF-OAPd).

WORKSHOPS

Workshop Themes:

- Instrumentation and Telescope SW Frameworks
 - Development Processes
 - SW Engineering and Tools
 - SW Quality Assurance
 - Local, Embedded and Real-Time Control Applications.
- **1st TETIS Workshop, 27-29 Oct 2020 (virtual, ~80 registered)**
 - **2nd TETIS Workshop, Roma, 2-3 Feb 2023 (hybrid ~60 registered)**

ON THE WEB



TETIS Website



1st Workshop



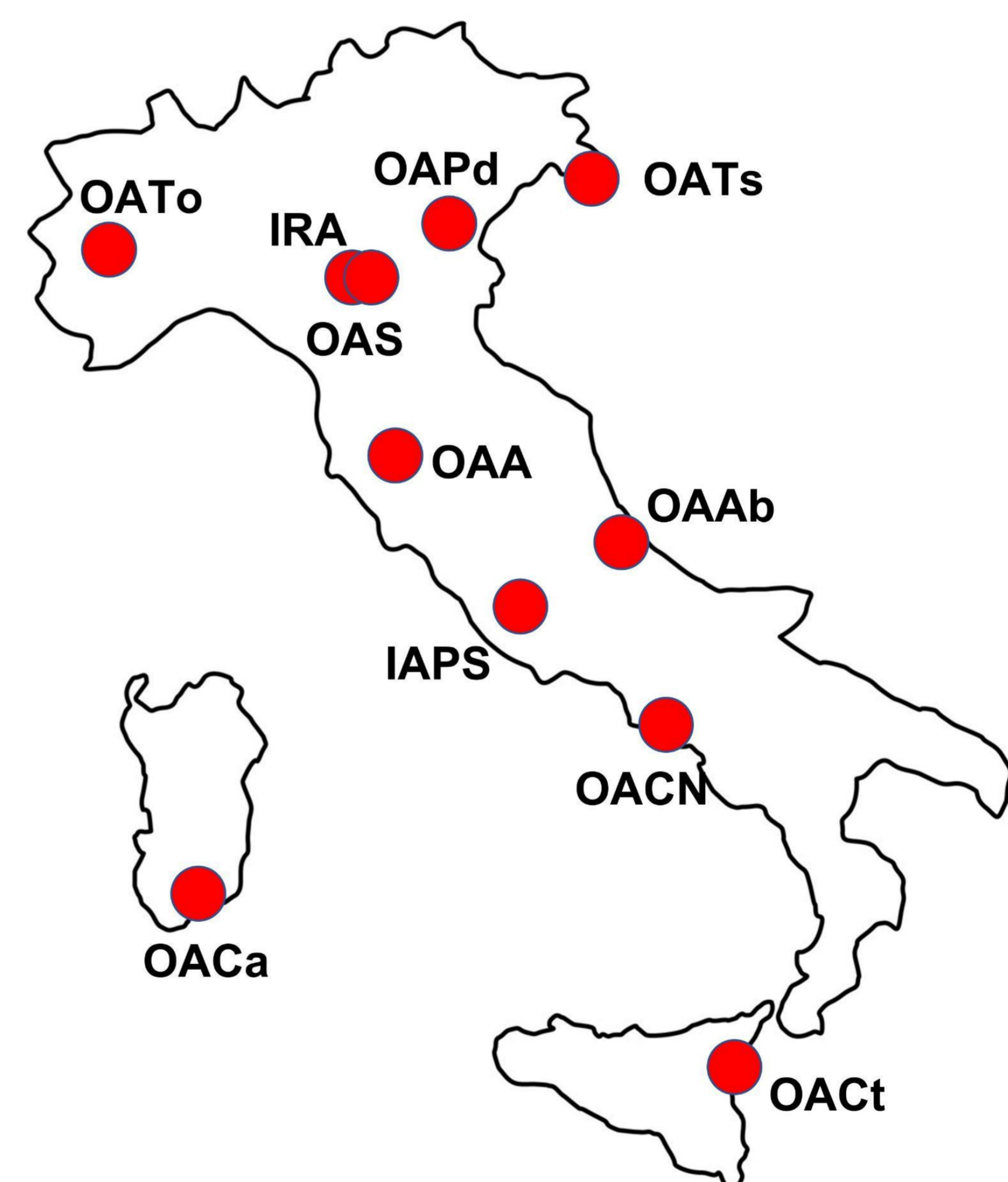
2nd Workshop

PEOPLE

Current members of the TETIS mailing list (tetis@inaf.it):

Alessandro Lorenzetto, Alfio Puglisi, Alessandro Costa, Andrea Balestra, Andrea Baruffolo, Andrea Bulgarelli, Andrea Orlati, Andrea Zacchei, Anna Di Giorgio, Antonio Sulich, Benedetta Di Francesco, Bernardo Salasnich, Chiara Di Prospero, Daniela Fantinel, Daniele Tavagnacco, Daphne Diretto, Davide Ricci, Donata Bonino, Eduardo Medinaceli Villegas, Elia Costa, Enrico Giro, Erik Romelli, Fabio Rossi, Fulvio Laudisio, Gianluca Di Rico, Gianpaolo Vargiu, Giorgio Calderone, Giovanni Giusi, Giulio Capasso, Giuseppe Carboni, Igor Coretti, Laurent Marty, Leonardo Corcione, Marco Frailis, Maria Farina, Marina Vela Nunez, Matteo Canzari, Matteo Di Carlo, Matteo Porru, Mauro Dolci, Mauro Focardi, Manuel Gonzalez, Mirko Colapietro, Nathan Neri, Paolo Di Marcantonio, Pierpaolo Merola, Pietro Schipani, Roberto Cirami, Rosanna Sordo, Salvatore Lampitelli, Salvatore Savarese, Samuele Galeotta, Sara Bertocco, Scige' John Liu, Sebastiano Ligori, Sergio D'Orsi, Sergio Poppi, Simone Benedetti, Simone Riggi, Stefano Di Frischia, Valentina Alberti, Veronica Baldini, Vito Capobianco, Vladimiro Noce

The mailing list is open to anyone interested. To subscribe, please contact the TETIS coordinator.



Some TETIS linked INAF projects

- EUCLID VIS and NISP
- PLATO ICU - ARIEL ICU
- ATHENA ICU
- FORS, CUBES, MAVIS @ESO VLT
- ANDES, MORFEO @ESO ELT
- SOXS@NTT
- SKA, LOFAR 2
- PRISMA
- PLICO
- SHARK NIR
- ASTRI Mini Array