

# Introduction

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## Outline

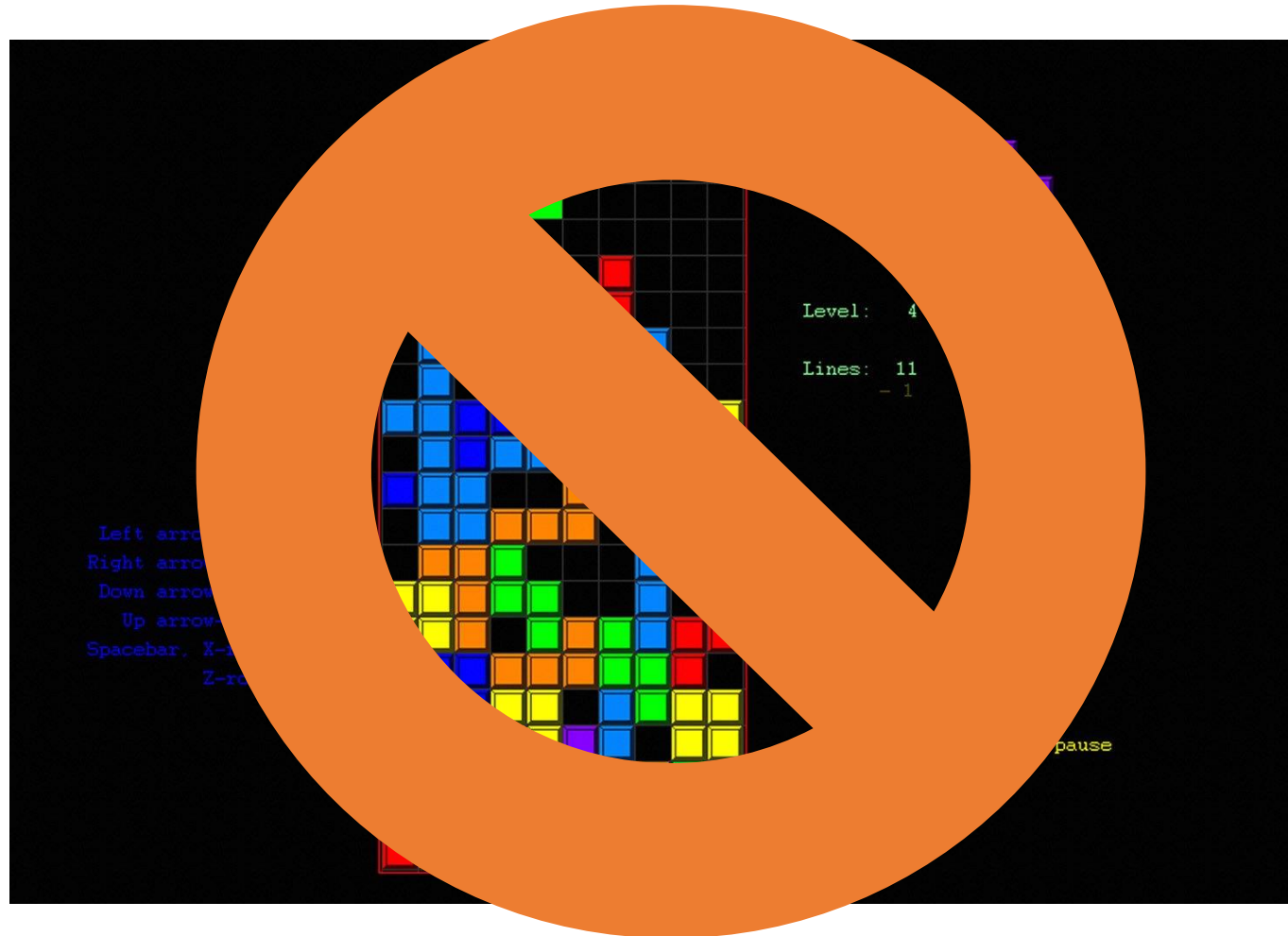
- What is TETIS?
- Aim of the Workshop
- Some *logistic* information

# What is TETIS?

## TEchnologies for Telescopes and Instruments control Software

- A Coordination Group within the INAF UTG1 OptNIR Division (Divisione per l'Astronomia Ottica e IR), born to fulfill the need of a “coordination of interests, activities, tools and expertise” of all INAF technological groups involved in the development of telescope and instrument control software.
- The original proposal for TETIS has been subscribed by 20 INAF researchers with expertise in the development of control SW for both ground based and space based astronomical instrumentation working in several different wavelength ranges.

# What is NOT?



## Why TETIS?

### Main aims:

- maximize synergies between the different participating groups by sharing knowledge and skills
- support and maintain the level of excellence achieved today, through both the acquisition of tools, hardware and software, and the improvement of the training activities related to new technologies, strategic for the near future.

# Origin of TETIS

TETIS has been initially proposed to answer the INAF call for “Mainstream” projects

- The proposal has been "redirected" to the OptNIR Division by the evaluation committee of the call answers.
- The initial project organization has been consolidated and slightly revised to reflect the change from “project” to “coordination group”

## TETIS proponents

The initial group of TETIS “proponents” consists of 20 staff units, both permanent and non-permanent, divided into four locations (OA Padova, IAPS Roma, OA Torino and OA Trieste).

This initial group of participants has a consolidated expertise in the development of control SW for instruments and telescopes:

- Ground based facilities: OmegaCAM, UVES, FLAMES/GIRAFFE, X-Shooter, SPHERE, ESPRESSO, ERIS, SHARK, SOXS, MAORY, ...
- Space missions: ISO, Herschel, Euclid, Plato, Athena, ARIEL, SPICA, OST, ...

# TETIS Organization

TETIS has a very simple organization, with a Management Committee and a Coordinator:

- The **Management Committee** (Comitato di Gestione, CdG) is composed by one representative for each INAF structure in which there are at least two staff units involved in TETIS
- The **Coordinator** is appointed by the Manager of UTG-I "Opt-NIR", within the Management Committee and having heard his opinion.

In this initial phase, CdG members are: Andrea Baruffolo (OAPd, **Coordinator**), Anna Maria Di Giorgio (IAPS), Sebastiano Ligori (OATo), Paolo Di Marcantonio (OATs).



## Short term plan

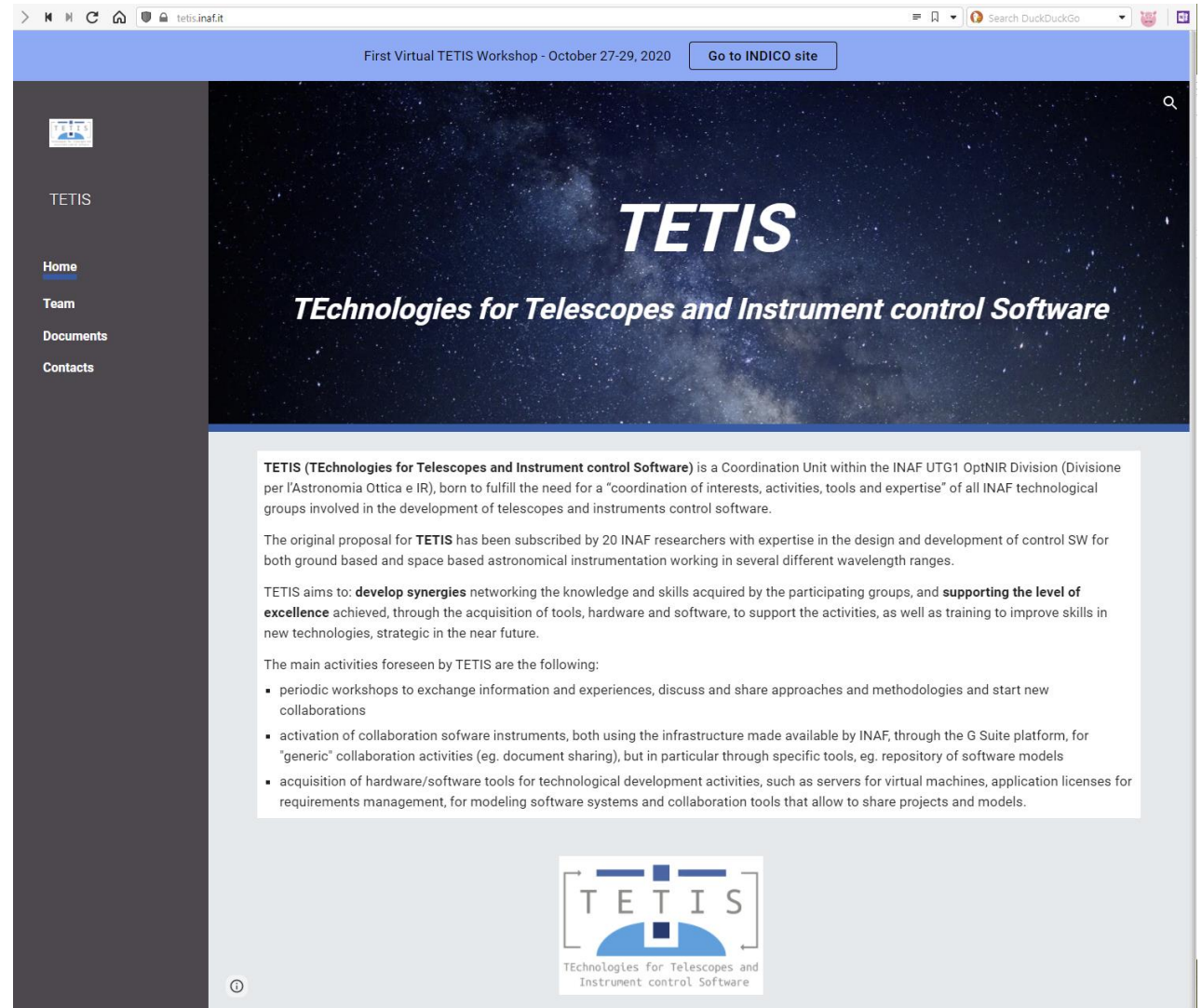
Organization of the first "TETIS Workshop", ~ ~~spring~~ <sup>fall</sup> 2020:

- Present TETIS to the community
- Extend participation to interested / not yet involved groups
- Expand mutual knowledge of the groups that deal with control SW
- Discuss the plan of the medium and long term activities

## TETIS web site

<http://tetis.inaf.it>

(Needless to say: under construction)



The screenshot shows the TETIS website homepage. The browser address bar displays 'tetis.inaf.it'. The page header includes 'First Virtual TETIS Workshop - October 27-29, 2020' and a 'Go to INDICO site' button. The main content area features a dark background with a galaxy image, the TETIS logo, and the text 'Technologies for Telescopes and Instrument control Software'. A sidebar on the left contains navigation links: 'TETIS', 'Home', 'Team', 'Documents', and 'Contacts'. The main text block describes TETIS as a Coordination Unit within the INAF UTG1 OptNIR Division, aimed at developing synergies and supporting excellence in telescope and instrument control software. It lists main activities such as periodic workshops, activation of collaboration software instruments, and acquisition of hardware/software tools.

First Virtual TETIS Workshop - October 27-29, 2020 [Go to INDICO site](#)

# TETIS

*Technologies for Telescopes and Instrument control Software*


**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.

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.

The main activities foreseen by TETIS are the following:

- periodic workshops to exchange information and experiences, discuss and share approaches and methodologies and start new collaborations
- activation of collaboration software instruments, both 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
- acquisition of hardware/software tools for technological development activities, such as servers for virtual machines, application licenses for requirements management, for modeling software systems and collaboration tools that allow to share projects and models.



Technologies for Telescopes and  
Instrument control Software

# TETIS Logo



The TETIS logo refers to the colors and shapes of INAF's and represents the connection between software technologies from space and from the ground by means of arrows resembling control loops.

*Logo by D. Ricci, inspired also by the work of V. Baldini*

## Aim of the Workshop

- Present TETIS to the community
  - Today's talks by the “initial” members
- Have an overview of the groups working in the field and their expertise, current and future projects
  - Most other presentation
- Get to know similar initiatives: e.g. EFISOFT (later today)
- Learn about frameworks: ACS, TANGO, CORDET, ELT FW...
- SW Engineering: PA/QA, ECSS, Agile...
- Get more people/groups onboard!
- Discuss our way forward

## *Logistic information*

- You might have noticed the official language for presentations is English
  - to give non-Italian speaking colleagues the opportunity to attend
- However, sessions dedicated to discussion will be held in Italian
- Remember, Indico site: <https://indico.ict.inaf.it/e/tetis2020>
- Can be also reached from: <https://tetis.inaf.it/>

## *Logistics: netiquette*

- join with your camera and microphone off
- to save bandwidth, keep camera and microphone off except when presenting, asking questions or discussing
- there are two ways to ask questions:
  - use "raise your hand" feature of Zoom (in this case, please remember to "lower" it afterwards);
  - or type the question in the meeting chat and the session moderator will read it at the end of the talk;
- if you want to share on social media pictures or screenshots of a speaker or attendee, please get those persons' permission first
- you can share the contents of some slides via social media unless speakers have asked that specific details/slides not be shared
- please use good quality equipment: a headset or hands-free is usually better than built-in microphone, which has poorer noise and echo suppression (if any). If possible, place your webcam in front of you while speaking.



# Let's have a lively 1<sup>st</sup> TETIS Workshop!