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ChETEC-INFRA TNA Event

July 26, 2021

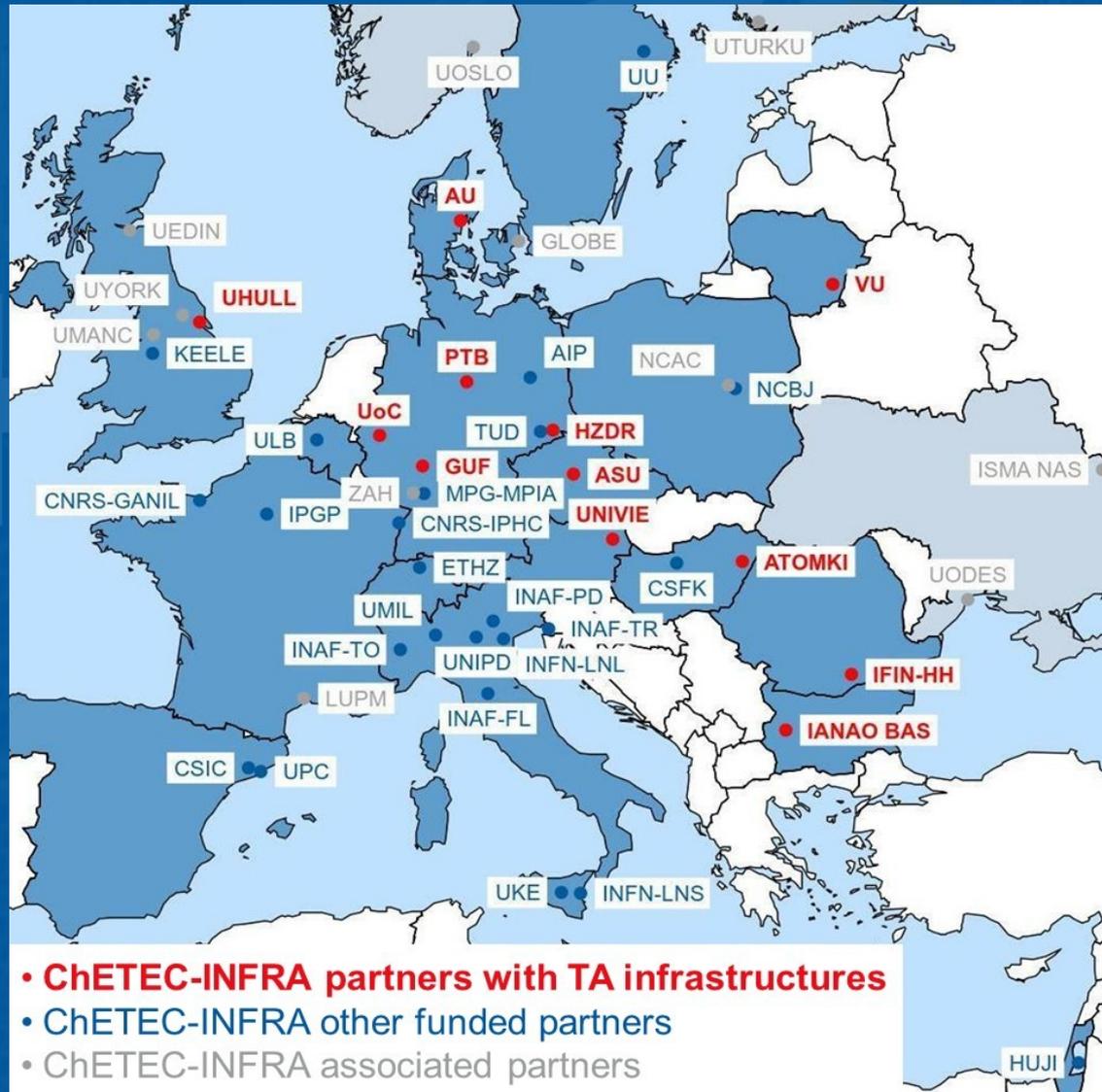
# Transnational Access in ChETEC-INFRA

Axel Boeltzig

## Transnational access by scientific users

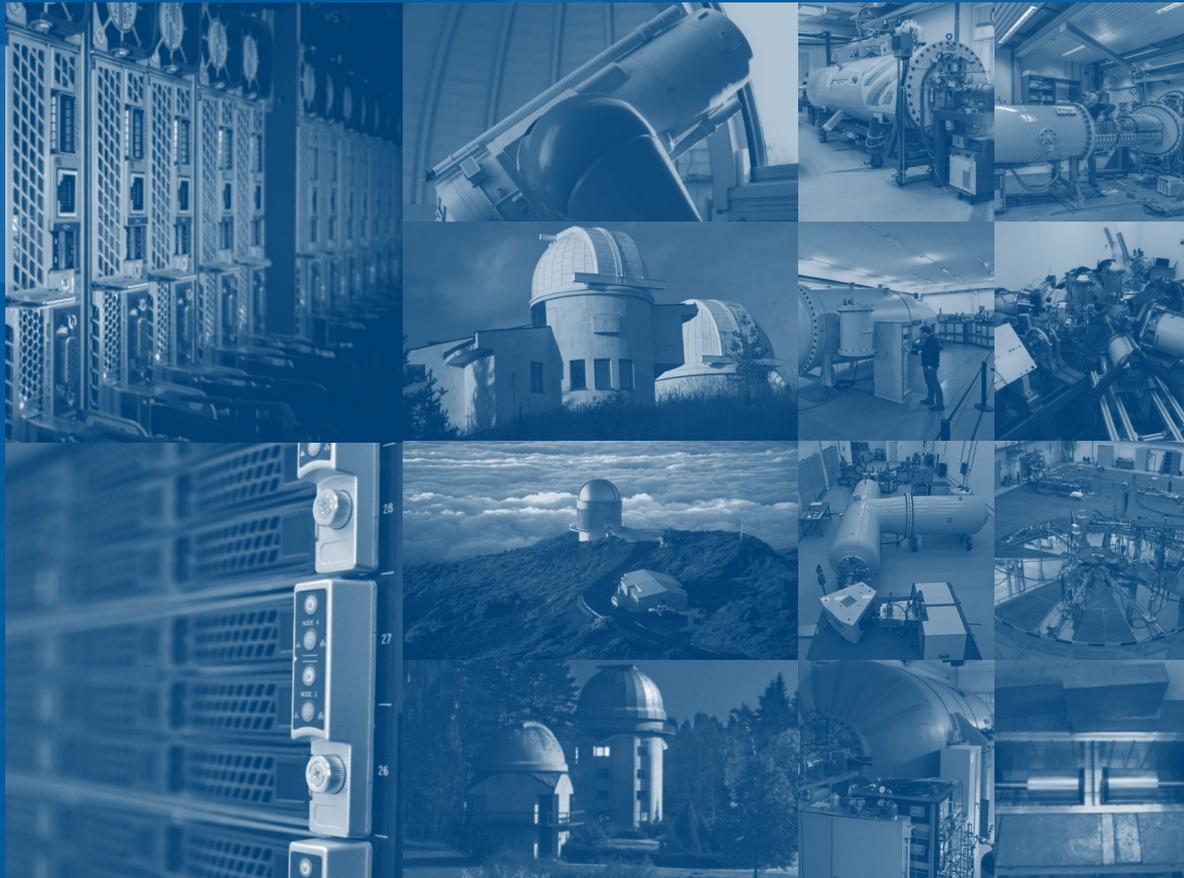
- ★ crosses national borders, i.e., users must use an installation located outside the country where they work
- ★ is free of charge to the users, access fees to the facilities are paid by the European Union
- ★ may include travel support for the users, funded by the European Union
- ★ should generally foresee to publish the scientific results,
- ★ is open to scientists of all nationalities and based in all countries, with limits on the amount of access given to users outside the EU and associated countries
- ★ is allocated by an independent user selection panel, solely based on scientific merit.

# 13 partners offer transnational access



# Three types of infrastructures

- ★ Supercomputer facilities perform stellar structure and nucleosynthesis computations
- ★ Telescopes and mass spectrometers collect elemental and isotopic abundance data
- ★ Astronuclear laboratories supply reaction data



# ChETEC-INFRA TA facilities



## Astronuclear High performance Computing

- ★ University of Hull (UHULL) viper HPC, United Kingdom

## Astronuclear Telescopes

- ★ Aarhus University Nordic Optical Telescope (NOT), Denmark
- ★ ASU Perek 2m Telescope, Czech Republic
- ★ IANA0 Rozhen National Astronomical Observatory, Bulgaria
- ★ Vilnius University Molėtai Astronomical Observatory (MAO), Lithuania

## Astronuclear Laboratories (AMS, Reactions with Ion Beams)

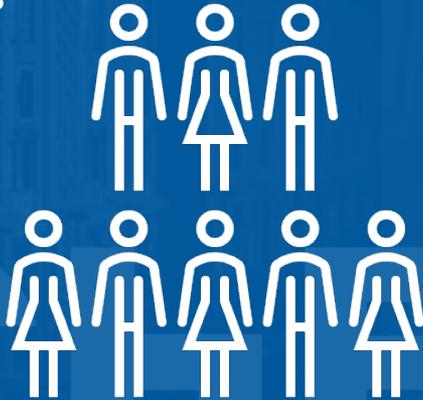
- ★ HZDR Felsenkeller, Germany
- ★ ATOMKI Cyclotron, Hungary
- ★ Goethe University Frankfurt Van de Graaff accelerator, Germany
- ★ HZDR DREsden Accelerator Mass Spectrometry (DREAMS), Germany
- ★ IFIN-HH 3MV Tandetron, Romania
- ★ PTB Ion Accelerator Facility (PIAF), Germany
- ★ University of Cologne 10MV Tandem accelerator, Germany
- ★ Vienna Environmental Research Accelerator (VERA), Austria

Further information on <https://www.chetec-infra.eu/tna>

# Overview of CheTEC-INFRA TA groups



## TA users



TA coordinator  
(K. Schmidt)

Deputy TA coordinator  
(A. Boeltzig)

## Proposal management system

## TA managers and deputy TA managers

- ...
- ...
- ...
- ...
- ...
- ...
- ...
- ...

(13 facilities)

## User Selection Panel (USP)

- Nuclear
  - 106 expected projects (27/year)
  - 8 members
- Telescopes
  - 66 expected projects (17/year)
  - 5 members
- HPC
  - 60 expected projects (15/year)
  - 3 members

# Eligibility for TNA via ChETEC-INFRA



In order to be eligible, TNA proposals submitted by user groups must meet the following criteria:

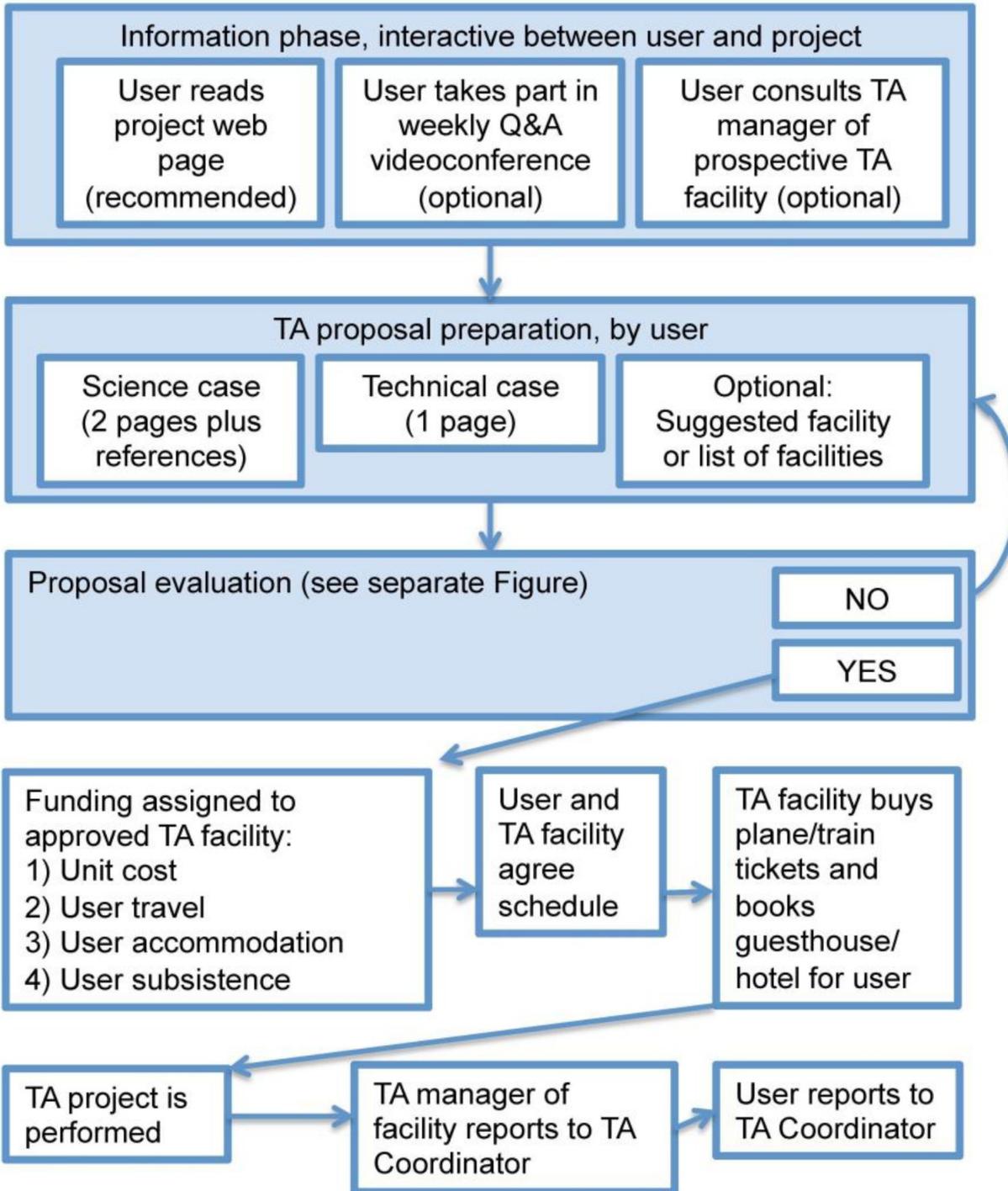
1. The user group leader and the majority of the users must work in a country other than the country where the installation is located. The country where the installation is located is listed in the list of ChETEC-INFRA TNA installations.
2. The user group must be allowed to disseminate the results they have generated in their TNA project. If the user group is part of an SME (small or medium enterprise), this requirement can be waived.
3. By EU regulation, ChETEC-INFRA has to limit the provision of access to user groups with the majority of users not working in an EU or associated country to 20% of overall access. This means that proposals from outside the EU and EU-associated countries are eligible, until this overall limit applying to all ChETEC-INFRA supported TNA proposals has been exhausted.
4. If the user group leader can use national mechanisms to access ChETEC-INFRA telescopes (e.g., for some countries to access the NOT telescope), they should apply using these mechanisms and not for ChETEC-INFRA transnational access.

# Selection criteria for TNA via ChETEC-INFRA

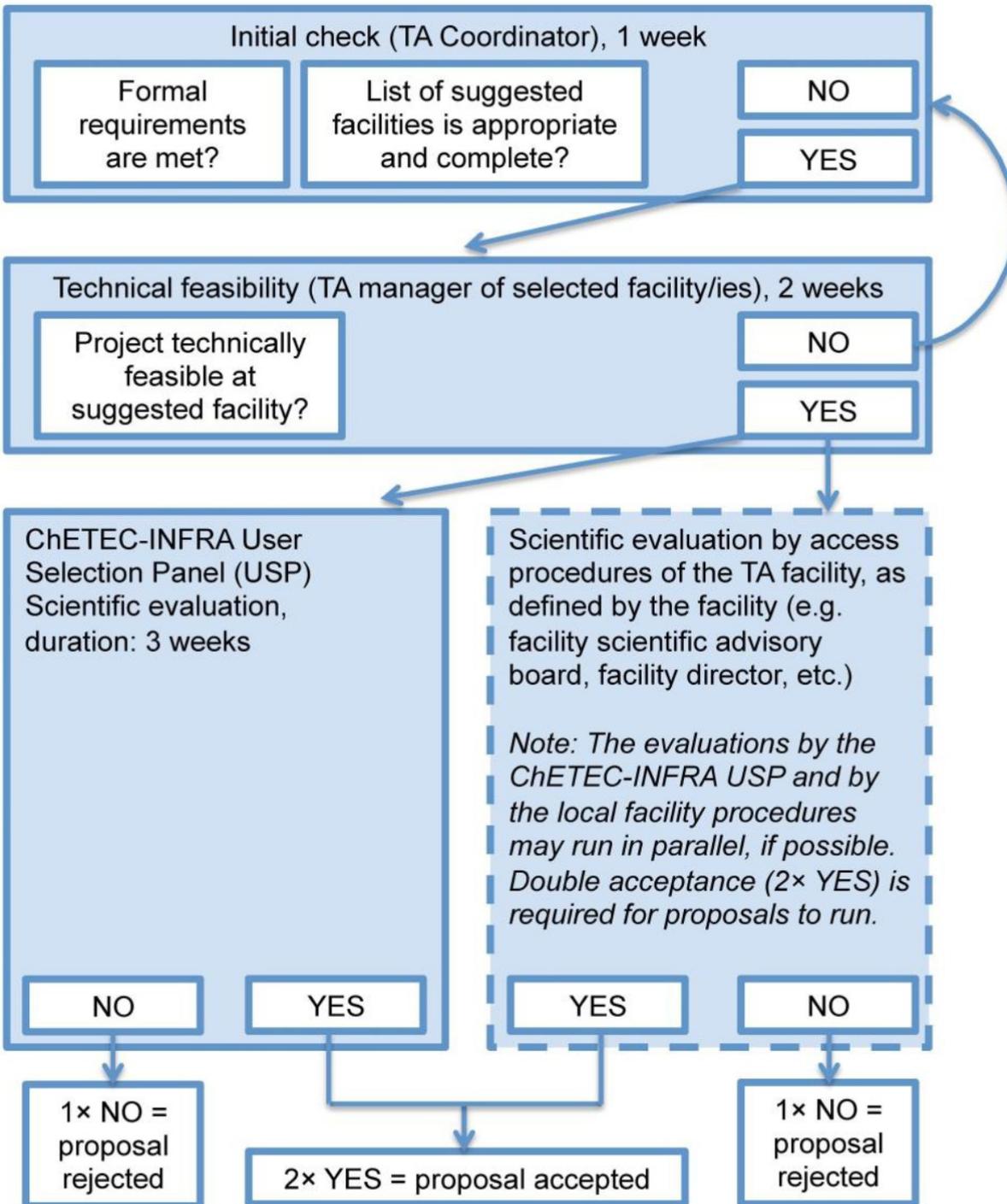


1. The selection of TNA proposals will be made based on
  1. the written scientific proposal and written experimental plan submitted by the user group through the access portal linked on the ChETEC-INFRA home page,
  2. the eligibility check performed by the ChETEC-INFRA TNA Coordinator, and
  3. the technical feasibility check performed by the TNA Manager of the installation applied for.
2. The selection of the proposals will be performed by the ChETEC-INFRA User Selection Panel (USP). The USP is composed of international experts in the fields of nuclear astrophysics, at least half of them from institutions that are independent from the ChETEC-INFRA consortium.
3. The sole selection criterion is scientific excellence, with priority being given to users who have not previously used the installation and who are working in countries where no equivalent infrastructure exists. The interdisciplinary aspect of scientific excellence will be underlined by encouraging the use of two or even three types of infrastructures (labs, telescopes, computers).
4. TNA users from inside and from outside the ChETEC-INFRA consortium that meet the eligibility and selection criteria set out in above are eligible. ChETEC-INFRA especially invites and warmly welcomes new scientific users from all institutions and countries!

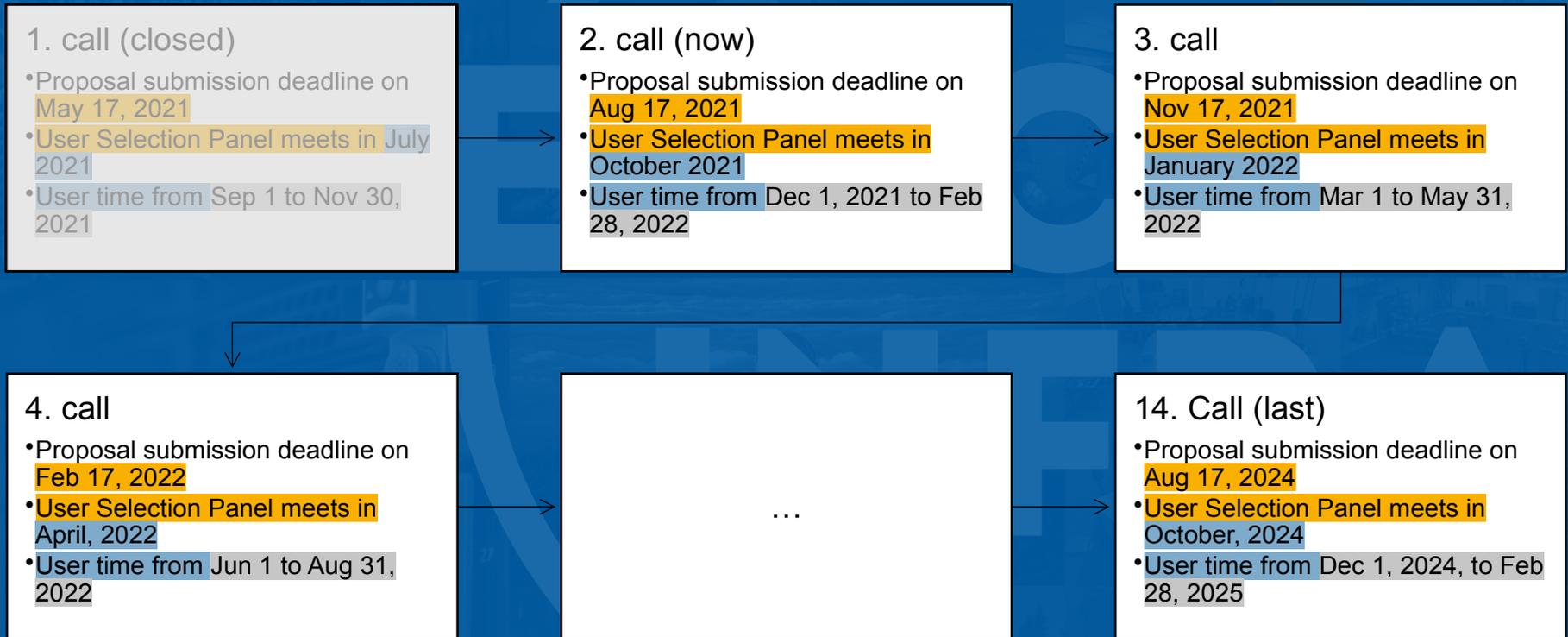
# Flowchart of TA within ChETEC-INFRA as seen from the user



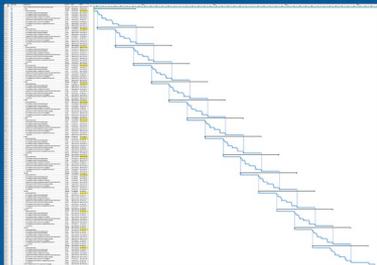
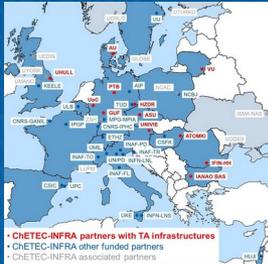
# Flowchart of the evaluation process for TA proposals via ChETEC-INFRA



# Important dates for ChETEC-INFRA TA – a new call every 3 months



# Summary



- ★ 13 ChETEC-INFRA infrastructures offer TA
  - ★ covering facility costs and support for travel (where applicable)
- ★ ChETEC-INFRA includes three types of infrastructures
  - ★ Astronuclear High performance Computing
  - ★ Astronuclear Laboratories
  - ★ Astronuclear Telescopes
- ★ Current proposal management system is GATE
- ★ Three-month cycle for proposal deadlines, and user times
  - ★ Upcoming call for proposals: **August 17, 2021**
- ★ Further information
  - ★ Website: **<https://www.chetec-infra.eu/tna>**
  - ★ TA coordinator and deputy TA coordinator
  - ★ Facility Managers