

#### Sylvie Leray, CEA/Irfu

I.FAST Period 1 Review, 07.02.2023



I.FAST Period 1 Review, 7 February 2023

### WP13 General context

- The European Technology Infrastructure (TI) for accelerators and magnets is the ensemble of Technological Facilities (TFs), encompassing large-scale Technical Platforms (TPs) for development, fabrication, assembly, integration and performance verification of accelerator and magnets components, together with large concentrations of dedicated, highly-skilled personnel.
- Follow-up of the H2020 AMICI project (01/2017-10/2019), which investigated how the TI could be reinforced, harmonized and made more efficient, and industry could benefit more from the possibilities offered by TPs (see <a href="http://eu-amici.eu/">http://eu-amici.eu/</a>).





## WP13 general objectives

- Propose a strategic approach ensuring the long-term sustainability of the TI and the development of its capabilities in view of the construction of future accelerator-based RIs.
- Extend and strengthen the cooperation with industry to exploit opportunities of fostering innovation in related technologies.
- Develop and promote services, within a common approach, for the benefit of RIs, future scientific projects and high-tech industry.





#### WP13 structure

- Task 13.1: Strategy for the development of the AMICI TI Partners: CEA, CIEMAT, CNRS, DESY, IFJ-PAN, INFN, KIT, UKRI, UU
- Task 13.2: Developing and promoting services to industry in AMICI TFs
   Partners: DESY, CEA, CIEMAT, CNRS, IFJ-PAN, INFN, KIT, UKRI, UU
- Task 13.3: New RF amplifiers based on GaN semiconductors Partners: UU, CERN
   An example of an upgrade of a TP allowing to keep the TF at the forefront of the technology in a Key Technical Area
  - -> See presentation by D. Dancila



## Task 13.1: Strategy for the development of the AMICI TI

- Completion of the first part of the roadmap: analysis of the landscape of the different scientific fields that could need the AMICI TPs (written as much as possible on the basis of roadmaps or reports prepared by the concerned communities)
  - particle physics,
  - nuclear physics,
  - energy,
  - material and biological science,
  - medicine and other applications.
- Adoption of a classification of TPs according to pre-defined categories and sub-categories.



# Task 13.2: Developing and promoting services to industry in AMICI TFs

- Investigating the possibility of standardized access rules: feedback from the IAB suggests that the lack of non-unified access rules is actually not an issue for industrial users.
- Central information and contact point : Web site
- Workshops dedicated to a particular type of TP gathering personnel from the TPs and possible users.
  - First workshop in DESY, Hamburg, on September 14-15 on superconducting RF cavity testing. https://indico.desy.de/event/35316/
  - Second workshop on test facilities for superconducting magnets at LASA Milano on November 17-18. <a href="https://agenda.infn.it/event/32859/">https://agenda.infn.it/event/32859/</a>



#### Deliverables and Milestones P1

- Deliverable D13.1: Strategy for the development of the AMICI Technological Infrastructure: M24→M30
- Milestone MS61: Organization of a workshop to inform and consult the stakeholders among which industry: M21→M24 coupled to the 2<sup>nd</sup> Annual Meeting in April
- Deliverable D13.2: Report on the organization and operation of the contact point, on the organized workshops and proposition for standardized access rules M24→M30
- Milestone MS62: Central information and contact point operational (Web site):
   M15→M17 Achieved



## Relevance of objectives and impact

- Relevance of the initial objectives
  - ensuring the long-term sustainability of the TI and developing its capabilities is important in view of the global competition
  - strengthening the cooperation with industry is crucial both for industry to access TPs they cannot afford and TFs to gain additional resources and higher visibility

#### • Impact:

- contributing to keeping Europe at the forefront of accelerator-based RI design and construction
- helping to make European industry an innovation leader in the societal applications of accelerators



