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Steering Committee Meeting, 21.10.2025

Background

- Almost 2 years of **interactions and discussions** with the Open Science and Research Infrastructure Unit (RTD.A.4.001) of EC DG-RTD. Production of several strategy documents with TIARA and with the other INFRA-INNOV communities (LEAPS, AIDA).
- Result: definition in June 2024 of the **Work Programme 2025 for Research Infrastructures** that takes into account some of our observations.
- The Work Programme is still **not published**, waiting for the last WP Committee meeting in October and for comments from the new Commission. However, it can be downloaded from Indico and we will (with some confidentiality) review it here. It might still change, but not on the main lines.

HORIZON-INFRA-2025-01-TECH-02

Implementing research infrastructure technology roadmaps

Expected **EU contribution**: 10 – 15 MEUR

Total budget for the call: 45 MEUR (between 3 and 4 projects can be supported).

Deadline for submission: 18 September 2025

Infrastructure and technology communities mentioned in the call: accelerator, light source, astronomy (already developed research infrastructure technology roadmaps).

Requirements: Projects should implement significant parts of, or entire research infrastructure technology roadmaps through **co-creation with industrial partners from the earliest possible stage**. The technology roadmaps should be the result of a community or cross-community effort already undertaken. The technological solutions developed should respond to the **needs of several research infrastructures**, and in some cases the needs of **different types of research infrastructures**.

Eligibility:

- consortia must include at least two different research infrastructures, each of them being an ESFRI infrastructure, a European Research Infrastructure Consortium (ERIC) or another research infrastructure that is an international European research organisation.
- Cascade funding (Innovation Fund) admitted.

HORIZON-INFRA-2025-01-TECH-02

Proposals are expected to involve **research infrastructures and industrial partners**, including SMEs, to promote innovation and knowledge sharing through co-creation of required technological solutions and, when appropriate, make use of large-scale platforms combining R&D, integration and validation for technological developments. While industry, including SMEs, or other technological partners do not need to be consortium members, proposals should show evidence of their commitment via engagement letters or other forms of endorsement. If applicable, proposals should describe how such partners will be identified in the course of the action.

- address development of identified fundamental technologies or techniques underpinning and arising from the efficient and joint use of the involved research infrastructures, taking into account **resource efficiency (e.g. raw material and energy consumption) and environmental (including climate-related) impacts**.
- address **prototyping** of high-performance methodologies, protocols, and instrumentation, including the testing of components, subsystems, materials, and dedicated software, needed to upgrade the involved research infrastructures, construct their next generation, or develop new advanced applications.

proposals should also build on results from past/ongoing projects such as the ones funded under Horizon 2020 topics **INFRAINNOV-03-2020 and INFRAINNOV-04-2020**, and under Horizon Europe topics HORIZON-INFRA-2022-TECH-01-01 and HORIZON-INFRA-2024-TECH-01-01 and avoid overlap with them

Procedure for setting up a proposal

- TIARA will coordinate the preparation of the proposal.
- The first step will be a **joint workshop or multilateral discussion** on identifying common R&D priorities (**roadmap**) between: ESPP accelerator roadmap, LEAPS accelerator roadmap, nuclear physics priorities, neutron and energy priorities, industry priorities (via the AIPF).
- TIARA, in collaboration with the communities above, will define a list of strategic R&D activities (**enabling technologies that are not already covered in other EU projects**) to be used for project preparation.

My initial ideas on the new project

Very preliminary ideas that I will submit to TIARA at the meeting of 29/10.

The new project should be structured in 4 parts:

1. **Instruments** (management and coordination, outreach including CBI, training, industry including AIPF, technology transfer including start-up support, sustainability including methodologies for LCA, applications, accelerator roadmap).
2. **Enabling technologies**, maximum 5 topics at higher TRL supported with adequate funding – prototyping with industry mandatory.
3. **Emerging technologies**, bottom-up call at lower TRL – selected by an ad-hoc committee accordingly to internally defined rules (as in I.FAST).
4. **Innovation Fund**, internal call for innovative projects with industry (as in I.FAST).

Enabling technologies

Conditions: an evolution from previous accelerator projects, possibly multi-platform (serving different communities), will profit from engagement of industry, are not covered by other EU projects.

Some **ideas:**

- Thin SC films (including a prototype cavity in collaboration with industry)
- Additive manufacturing (including prototype linear accelerator system)
- High Temperature Superconductivity (including demonstrator)
- An advanced accelerator topic, e.g. Dielectric Laser Accelerators (including prototype)
- A topic for synchrotron light sources (permanent magnets? HTS undulators?)

Comments?

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Thank you for your attention!



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