

16 Jul 2019

Shaping the future of accelerators: the new innovation pilot project

by Livia Lapadatescu (CERN)

[Innovation Pilot accelerators](#)

Take part in the new Accelerator Innovation Pilot project by submitting your proposal to the open call launched by TIARA and ARIES until 31 August 2019.



In the last 16 years, the particle accelerator community has been consolidated through EU support from a series of four Integrating Activities: CARE, EuCARD, [EuCARD-2](#) and [ARIES](#). With the last Horizon2020 calls, the European Commission has reassessed the support for its four super-advanced communities (accelerators, lasers, synchrotron

lightsources, detectors), developed and consolidated through Integrating Activities, in order to boost their innovation potential.

After consulting these communities, the EC has launched an Innovation Pilot, a different type of action from the previous Integrating Activities. The Innovation Pilot will be centred on innovation and development of new technologies, in partnership with industry. If successful, this pilot could pave the way for a long-term programme (flagship project) within the new Horizon Europe Framework Programme.



Due to the high level of integration reached by the accelerator community and the quality of the previous Integrating Activities, the EC has selected “ Innovation in Accelerator Technologies” as one of the priority domains for the Innovation Pilot call INFRAINNOV-04-2020, expected to be opened in November 2019 with a deadline of 17 March 2020.

The new Accelerator Innovation Pilot Project will be structured around:

1. Strategies/technological roadmaps in partnership with industry
2. Initial development of accelerator technologies (low TRL = Technology Readiness Level)
3. Prototyping for more developed technologies (higher TRL)

As was the case before, the submission of the new project will be coordinated by the **TIARA** (Test Infrastructure and Accelerator Research Area) Collaboration Council and the ongoing **ARIES** (Accelerator Research and Innovation for European Science and Society) Integrating Activity. With the goal of preparing a coherent and ambition proposal, TIARA and ARIES have launched a bottom-up call for actions to become part of the new project.

Types of actions expected for the bottom-up call:

Type of Action	Partners	Examples	Budget
Strategies/roadmaps to develop designs, technologies or applications	Small consortia of institutions, in partnership with industry	Strategies for new accelerators and acceleration techniques, for reaching extreme performance, for extending accelerator applications, for improving accelerator components, for improving sustainability of accelerator technologies etc.	300,000 EC funding + matching funds