



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under GA No 101004730.

IIF

IFAST INNOVATION FUND

04. 05.2022 - Geneva, I.FAST Annual Meeting

Marcello Losasso / CERN

iFAST



IIF: aim and objective

Within WP4, tool to promote innovative initiatives of I.FAST community

Set up to manage and support new proposals in the phase 2 of project

→ Based on ARIES acquired experience and from the 1st phase of I.FAST

Looking for intersections of I.FAST thematic areas and EC priority agenda, contributing in tackling similar priorities of enlarged communities

→ To connect accelerator community and society at large

Distribute and protect generated IP with particular attention to those WPs where industrial companies are involved.

IIF: Internal Innovation Fund

fast-tracked, competitive and innovative projects sponsored by WP4 in I.FAST

- It will be directed towards the 9 thematic I.FAST areas
- It will finance innovative projects: development and/or prototypes, contributing 100 to 200 K€, till the reaching of budget cap (1 M€)
- 2 rounds of evaluation, projects will start beginning of 2023
- Projects selected in round 1 that will not make to round 2 will be all the same advertised and promoted in IFAST community and in our networks
- It is an important investment for our project: IIF budget is equivalent to 10% of the project total requested EC contribution!

IIF aims

- i) Develop and use appropriate incentives for academic research groups to collaborate with SMEs and larger industries
→ reason to include as a must at least 1 industry into IIF consortia
- ii) Advance the technology readiness levels in order to enable the uptake and exploitation of specific technologies developed in IFAST by the industrial participants in the project or other industrial partners
→ Minimum requested TRL 3 {experimental proof of concept}

lesson learned from PoC of ARIES:

A Funding programme can act as a seed able to collect, around a viable and innovative idea, different actors mobilising financial and technical resources more substantial than the seed fund itself.

→ **We expect in IIF engagement of different actors to promote and support with their own resources innovative ideas !**

TRL 3

- TRL 1 – Basic principles observed
- TRL 2 – Technology concept formulated
- **TRL 3 – Experimental proof of concept**
- TRL 4 – Technology validated in lab
- TRL 5 – Technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 6 – Technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 7 – System prototype demonstration in operational environment
- TRL 8 – System complete and qualified
- TRL 9 – Actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)

<https://enspire.science/trl-scale-horizon-europe-erc-explained/>

Summary of criteria of Evaluation

- **Quality**

- Innovation
- Clarity
- Beyond state-of-art

- **Impact**

- Creation of potentiality for growth, opportunities, competition
- Involvement of industries
- Dissemination of results
- Benefit to society

- **Implementation**

- Soundness of concept
- Effectiveness and credibility of work plan, use of resources
- Capability to attract additional resources

IIF: summary of rules of engagement

Requirements for eligibility

- Participants to proposals must include of at least 1 IFAST beneficiary
- Must be related to the key Thematic Areas of I.FAST, and advancing accelerator technologies in the quest of protecting environment.
- Must include at least 1 industry
- Proposals must contribute to improve sustainability of future accelerators
- The idea or concept must have a potential for industrial or commercial application
- Almost deployable-ready technologies: technical maturities at least TRL4 (validated in laboratory)

IFAST thematic areas

1. Novel particle accelerators concepts and technologies
2. High brightness accelerators for light sources
3. Innovative superconducting magnets
4. Innovative superconducting thin film coated cavities
5. Advanced accelerator technologies and materials
6. Sustainable concepts and technologies
7. Societal applications
8. Technology Infrastructure

IIF: summary of rules of engagement

IIF can be used for:

- Undertaking further scientific and technical development of an idea
- Improving an intellectual property (IP) position, i.e. broaden patent claims
- To pay for personnel
- To pay for materials (but up to 25% of the total project budget)

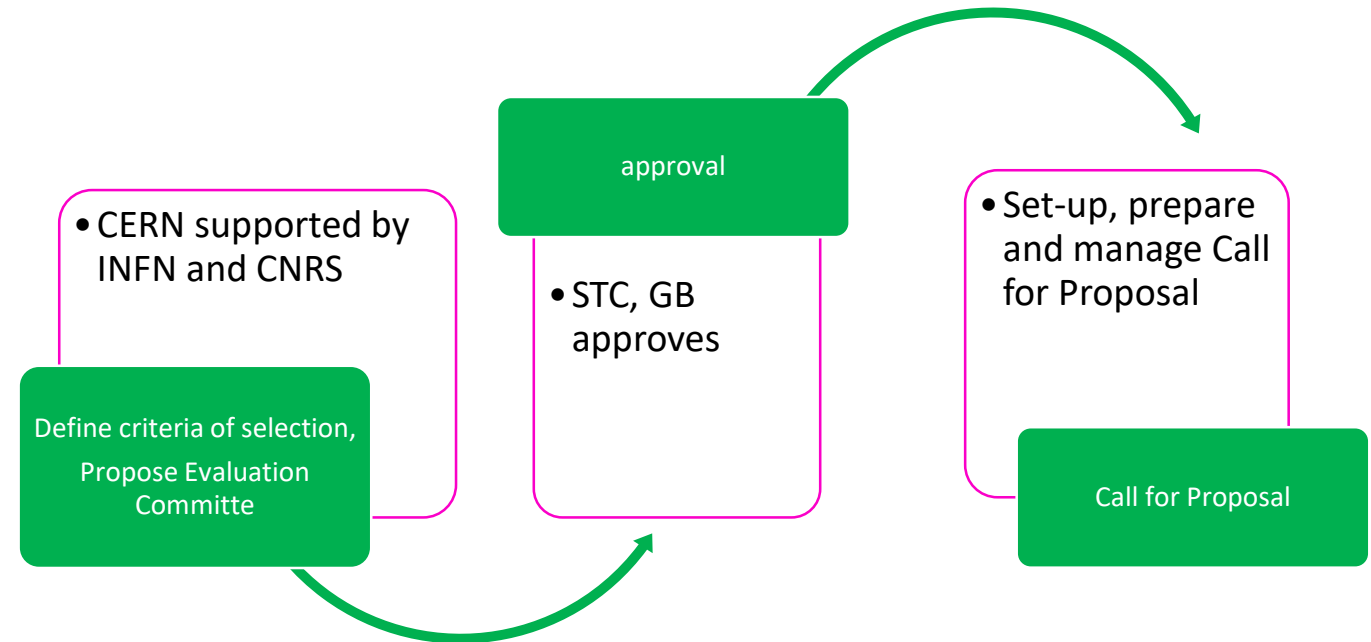
IIF cannot be used for:

- Associated intellectual property costs e.g. patent costs.
- The purchase of larger equipment and capital (fraction larger than 25% of the requested funds).

Task 4.1. Task leader: M.Losasso

- Defined criteria for evaluation of projects for IIF – *presented and discussed during Feb STC*
- appointment of an evaluation body for IIF. *Proposal discussed at latest STC. Decision taken by GB on Monday*
- The EvB will score and propose projects for award of funding
- The EvB will be also tasked to support monitoring of projects, and propose to GB for interim payments

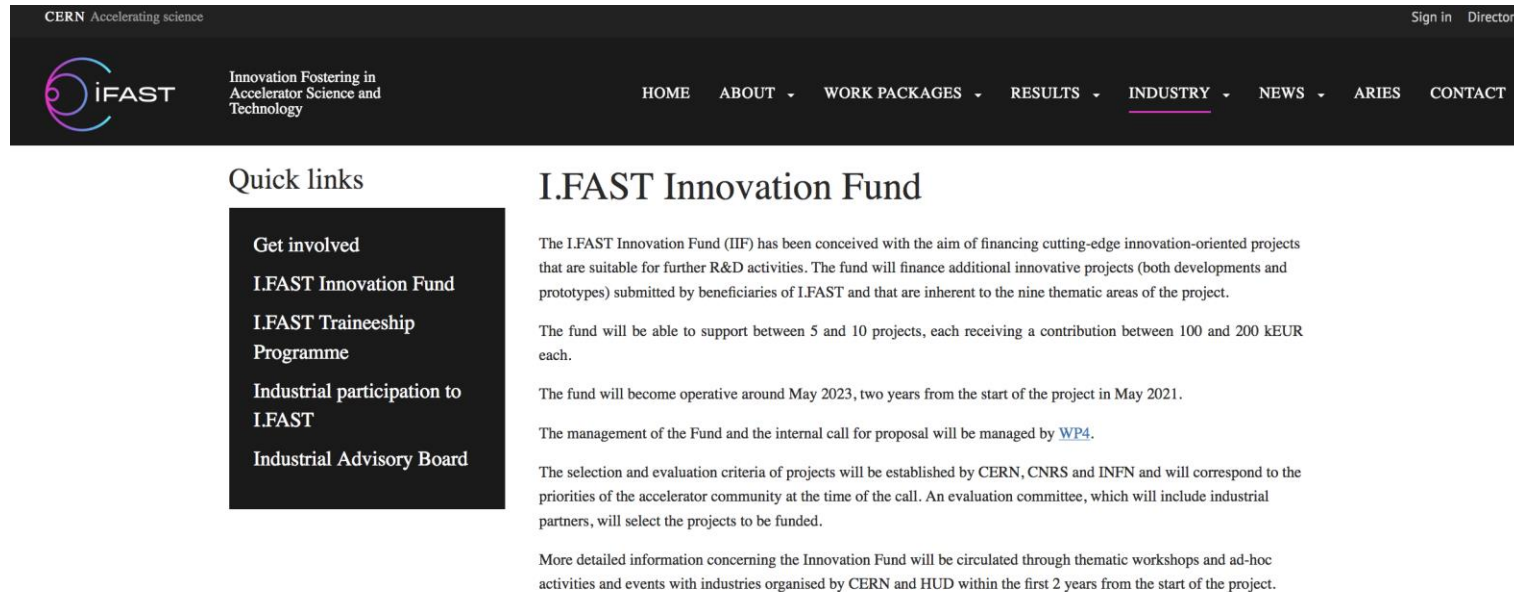
*Beneficiary:
CERN, HUD, CNRS, INFN*



IIF: web page

<https://ifast-project.eu/iif>

- Submission form (template available at the link)
- Pitch form to present (template available at the link)
- Updated timeline
- Selection Criteria
- Guidelines to Cfp
-other info on the IIF



The screenshot shows the IFAST Innovation Fund website. The header includes the CERN logo and navigation links: HOME, ABOUT, WORK PACKAGES, RESULTS, INDUSTRY (highlighted), NEWS, ARIES, CONTACT. A 'Quick links' sidebar lists: Get involved, I.FAST Innovation Fund, I.FAST Traineeship Programme, Industrial participation to I.FAST, and Industrial Advisory Board. The main content area is titled 'I.FAST Innovation Fund' and contains several paragraphs of text describing the fund's purpose, support levels, and operational timeline.

Quick links

- Get involved
- I.FAST Innovation Fund
- I.FAST Traineeship Programme
- Industrial participation to I.FAST
- Industrial Advisory Board

I.FAST Innovation Fund

The I.FAST Innovation Fund (IIF) has been conceived with the aim of financing cutting-edge innovation-oriented projects that are suitable for further R&D activities. The fund will finance additional innovative projects (both developments and prototypes) submitted by beneficiaries of I.FAST and that are inherent to the nine thematic areas of the project.

The fund will be able to support between 5 and 10 projects, each receiving a contribution between 100 and 200 kEUR each.

The fund will become operative around May 2023, two years from the start of the project in May 2021.

The management of the Fund and the internal call for proposal will be managed by [WP4](#).

The selection and evaluation criteria of projects will be established by CERN, CNRS and INFN and will correspond to the priorities of the accelerator community at the time of the call. An evaluation committee, which will include industrial partners, will select the projects to be funded.

More detailed information concerning the Innovation Fund will be circulated through thematic workshops and ad-hoc activities and events with industries organised by CERN and HUD within the first 2 years from the start of the project.



The footer contains four columns of information: ACKNOWLEDGEMENT (with the European Union flag and text 'This project has received funding from the European'), CONTACT US (address: Esplanade des Particules 1, 1211 Geneva 23, Switzerland), QUICK LINKS (Publication Database (Zenodo), Project Events (Indico), Intranet (SharePoint), How to access the intranet?), and RELATED WEBSITES (Subscribe to Accelerating News, CERN EU Projects Office, CERN Knowledge Transfer, ARIES).

ACKNOWLEDGEMENT

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CONTACT US

IFAST Project Office
Esplanade des Particules 1
1211 Geneva 23, Switzerland

QUICK LINKS

- Publication Database (Zenodo)
- Project Events (Indico)
- Intranet (SharePoint)
- How to access the intranet?

RELATED WEBSITES

- Subscribe to Accelerating News
- CERN EU Projects Office
- CERN Knowledge Transfer
- ARIES



Thanks to Sabrina & Antoine !

IIF: how to apply for a IIF CfP competition

Start with

- Innovative idea
- Form a proper consortium around the idea
- Check the web page in IFAST for updates and respect deadlines
- Download the web submission form and pitch template and work them offline
- Upload the completed form and pitch



The infographic features the IFAST logo at the top. The central text reads "I.FAST Internal Innovation Fund". Below this, three circular icons represent the fund's focus areas: Innovation (lightbulb icon), Sustainability (leaf icon), and Funding (dollar sign icon). Each icon is accompanied by a brief description of the fund's contribution. At the bottom, there is a section titled "About the fund" with a detailed description of the fund's objectives and a call to action to apply by September 15, 2022. The footer includes the European Union logo and the text "This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No 101004730."

iFAST

I.FAST Internal Innovation Fund

Innovation
The fund will contribute to advancing the status-of-art of I.FAST thematic areas.

Sustainability
The fund shall contribute to improving the sustainability of accelerator technologies.

Funding
The fund will finance projects, each receiving a contribution between 100 and 200 kEUR.

About the fund

The I.FAST Internal Innovation Fund (IIF) aims at stimulating the innovation potential of accelerator technologies. The primary objective of the fund is to encourage I.FAST beneficiaries to identify innovative solutions with viable industrial or commercial potential. This fast-track, competitive process will finance emerging technologies, processes, research, business models and other innovative solutions, at both development and prototype stages. Apply by September 15, 2022.

Apply by September 15, 2022

More information: ifast-project.eu/iif

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Look at

- Selection Criteria
- Consider the scores your project can potentially access
- Gather community and possibly additional resources around your idea

IIF: pitch content

Background and aim

Tell Evaluators about your invention/ aim of project

Technical overview

highlights the value of the proposed solution

Work Plan and risk analysis

Team / organization - WP and responsibilities among partners
schedule of the project, risk analysis

Applications and impact

potential applications or uses

Business plan

scalability, manufacturability, business and revenue models

The commercialization

what is next for your technology

Resources and budget

Team/ resources /industry dedicated to the project

Contact info



IIF: timeline of Evaluation

Few meetings in persons for EvB

projects can start beginning 2023

End of projects -> End of IFAST – 1M

2022												2023	
15-Feb	2-May	1-Jul	15-Sep			17-Oct		31-Oct		30-Nov	1-Dec	15-Dec	
STC approval of the procedures for IIF	presentation of the IIF to the IFAST AM	STC appointment of Evaluators Committee	deadline to submit project	OS, DE	EP, DE, PER	CE, end of 1st evaluation round	NOT, notification to first 10 selected projects	live presentation from selected proposals	OS, SE, PER	end of 2nd evaluation round	AGB, Award by GB	NAD, Notification of the award decision to the proposals	

meeting & reporting preparation							
Timeline						14-Oct	28-Oct
Deadline for 1 st submission	September 15, 2022						
Deadline for 1st round of evaluation	October 17, 2022					CE (meeting of Evaluators to consolidate results and reports)	CE (meeting of Evaluators to consolidate results and reports)
Deadline for 2nd round of evaluation	November 30, 2022						
Start of the project	January 2023						

OS		Opening session and Administrative Evaluation
DE		Digital Evaluation process (1st round)
SE		Evaluation Process (2nd round)
CE		Consolidation of the results (meeting of Evaluators)
PER		Preparation of evaluation report
NOT		Notification to first 10 scored Proposals and Presentaiton at CERN
AGB		Validation of the recommendations and final award decision by GB
NAD		Notification of the award decision to the tenderers



What next for implementation:

- GB on Monday 02.05 has approved the proposal of appointment of the EvB -
- GB on Monday has approved timeline
- Advertise the IIF CfP (workshop with industry already organized with WP3). Expect IFAST community to proactively act in respective networks.
- Start work on the Evaluation of Projects
- And set-up monitoring schemes appropriate for each of the awarded project
- IIF will be implemented with ML and Del defined for each project. Projects will be monitored by WP4 to verify that budget is used in effective and proper way. The GB will be proposed to approve the transfer of funding from CERN to the partners engaged in the IIF, and will control reporting and dissemination of results.

EvB composition

it Includes industrial partners and community members. It will score proposals according to the criteria and select projects to fund, in transparent, and structured process. The EvB will be requested to abide to a Not-Conflicting Interest policy.

- WP4 coordinator, chair –tasked to manage the process
 - IAB representative
 - WP3 coordinator
- Other 2 or 3 WP coordinators, on voluntary basis
- INFN and CNSR representative, as partners in WP4
 - Industry representative
 - PC ex-officio

Timeline of IIF

Only few meetings in persons for the evaluators

With this scheme, projects can start working beginning 2023

15 Sept deadline for project presentations

17 Oct – 1st round of evaluation

31 Oct presentation of 10 selected projects

30 Nov. 2nd round of evaluation

15 Dec, award decision [3 M in advance in respect to work plan, M24]

End of projects -> End of IFAST – 1M

Timeline	
Deadline for 1 st submission	September 15, 2022
Deadline for 1st round of evaluation	October 17, 2022
Deadline for 2nd round of evaluation	November 30, 2022
Start of the project	January 2023

Q & A

Thank you