M. Vretenar, CERN, Project Coordinator
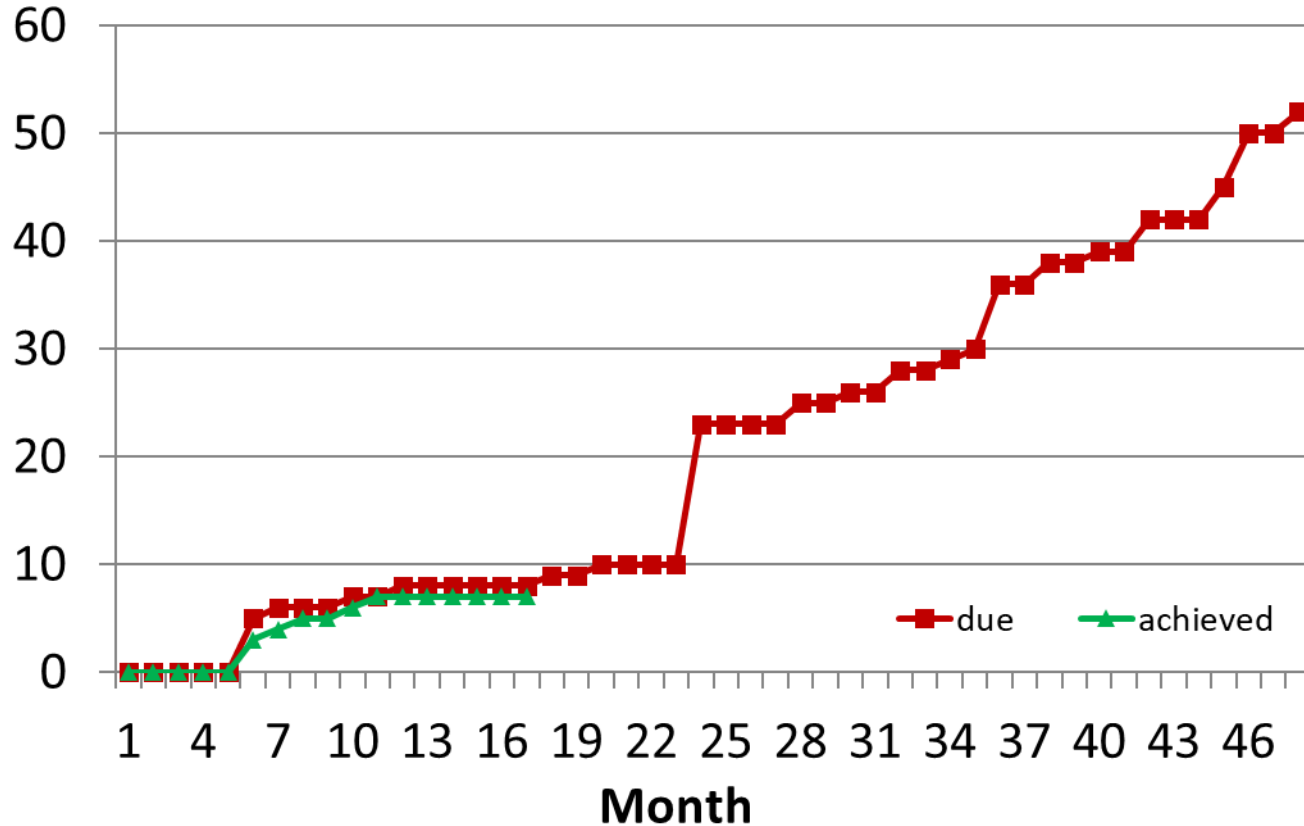
27 September 2022

Agenda for this Meeting

❑ Status of the Project, Deliverables and Milestones

❑ News from Brussels: I.FAST Reviews and future accelerator projects

❑ Submissions to the I.FAST Innovation Fund and evaluation procedure (M. Losasso)

❑ Outcome of Year 1 Report and schedule for Periodic Report 1

❑ Plans for the 2023 Annual Meeting in Trieste (V. Brunner)

❑ "Tour de table" on open questions and issues

Status of I.FAST

- We are now (end September 2022) at M17, more than 1/3 of the project (35%)!

- Work is in progress, there are some delays, more or less "in the norm".

- There are worrying news from some of our industry partners, on delays and over costs related to the general material and component crisis, and to rising inflation. Some are considering withdrawing from the project, a major issue that has to be avoided as much as possible. If there is no other choice, corrective measures can be:

  a) different sharing of work within the Task;

  b) shift of work to other (industrial or academic) partners;

  c) descoping or change of scope for the deliverables (with same budget);

  d) elimination of some activities from work plan, with corresponding reduction of budget.

Status of Deliverables
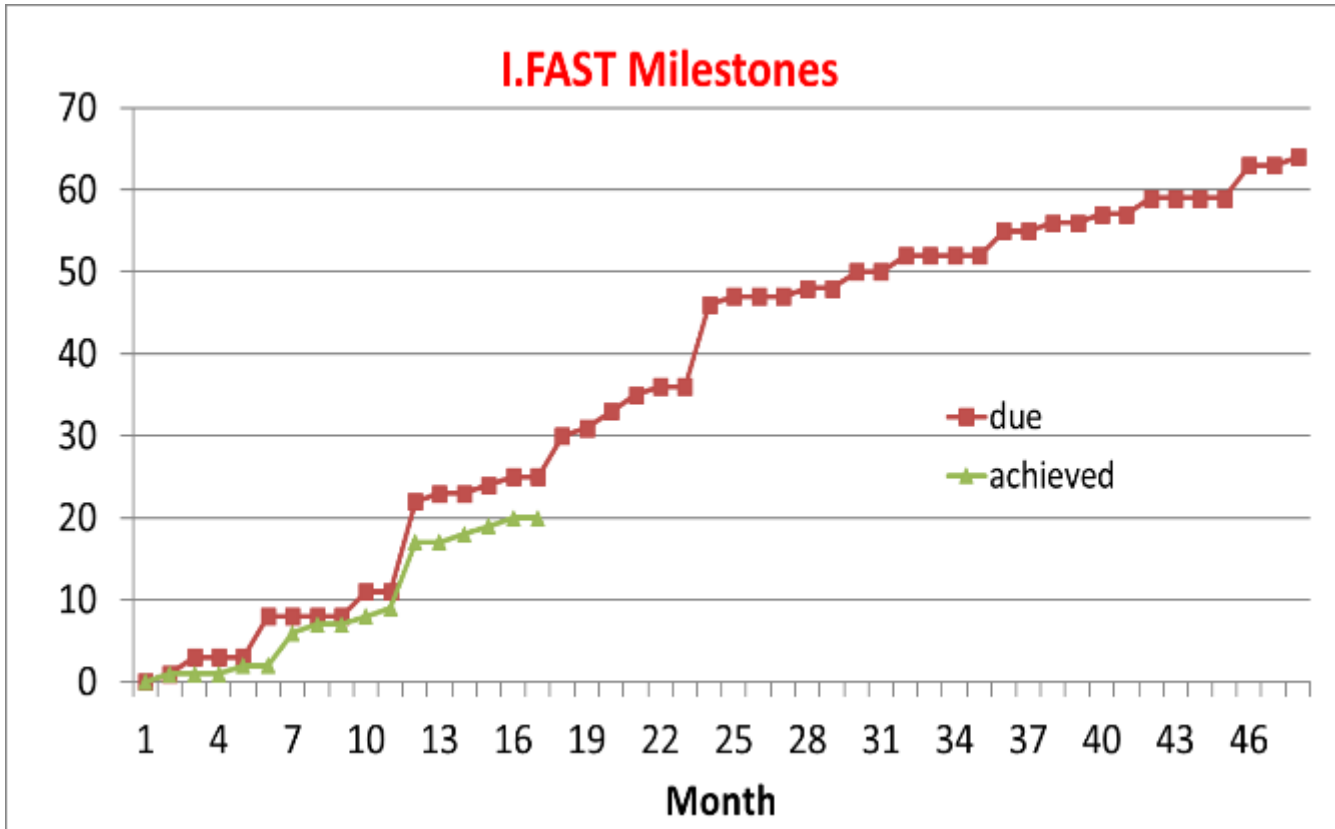

I.FAST Deliverables

- 2 Deliverables late (delay accepted by EC officer):

D10.3   Additive-manufactured SRF cavities: from M12 to M20 (late delivery of SC powders)

D8.3 First Engineering design of HTS demonstrator: from M18 to M24 (shift of activities from CEA to INFN because of missing personnel)

Both delays with no impact on other Deliverables

Status of Milestones

I.FAST Milestones

- More worrisome: 5 Milestones late, 3 with justified delay and 2 "in progress":

MS62	Central information and contact point operational	13.2	15
MS13	First characterisation of beam windows materials under thermomechanical load and extended radiation damage	4.3	16

M18

(end of next month!). Some can be late:

MS5	ACO workshop	2.2	18
MS15	International workshop on muon source design	5.1	18
MS17	Beam requirements for dark-sector searches	5.2	18
MS48	ML model selection and implementation plan	10.6	18
MS53	Workshop on sustainable materials and lifecycle management for accelerators	11.1	18

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News from Brussels

- Visit to Brussels on Monday 19/9 by J.M. Perez, E. Nappi and myself (requested since June, organised at last moment). Meet A. Ventura (REA) for I.FAST in the morning, Lia Karamali (HoU at DG/RTD) and Agnes Robin in the afternoon.

- I.FAST: there will be no Mid-Term Review, but one Review (large or small, to be decided) after each Periodic Report.

- Accelerator Projects: in 2023/24 for Research Infrastructures, there will be 3 calls of interest for the accelerator community:

  - 2023: a Coordination and Support Action to define Roadmaps for RI Communities

  - 2024: an INFRA-TECH call (10M) that can be used for a follow-up to I.FAST but in competition with all other communities – there will be nothing specific on innovation!

  - 2024: an INFRA-TECH call (5M) for "New technologies and solutions for reducing the environmental and climate footprint of RI's" – interesting for our WP11 and related R&D's.

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Year 1 (internal) Report

- Many thanks to all Task Leaders for having contributed to the Year 1 Report – and my apologies for having taking so long to process your inputs: the last contributions came in only in early August, and I have given priority to preparation of the ARIES Final report.

- At end of August (instead of end of June), has been distributed a nice 117 page document that summarises all I.FAST activities in Year 1.

- No comments have been received, the Report is approved.

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I.FAST

Innovation Fostering in Accelerator Science and Technology
Horizon 2020 Research Infrastructures GA n° 101004730

PERIODIC TECHNICAL REPORT

I.FAST Year 1 Report

Please note that the «Description of Work» is only 50% of the report!
There is much other relevant information that does not have to be neglected, in particular Sections 5 (Deviations), 8 (Exploitable results), and 9 (Risks)

1. Contents

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Next step: Transformation of Year1 Report into Periodic Report 1

❑ Actually, the preparation of Year 1 Report was only a first step towards the much more important preparation of **Periodic Report 1** covering the first 18 months (till end October) that will be reviewed by the EC and will (if approved) unblock another slice of funding.

❑ Deadline for submitting Periodic Report 1 on the EC Portal is end of December 2022 (3 months left!) – in reality, we must have it before the X-mas holidays.

❑ We are not going to write a new Report, we will only update Year 1 Report adding what has happened in the 6 months between May and October 2022.

Schedule for Periodic Report 1

❑End of September: templates are sent to all Task Leaders, with copy to WP Leaders, containing the Task contributions to Year1 Report, to be updated and/or complemented. One additional paragraph may be enough, no need to write too much (the report is already 117 pages...).

❑**End of October**: deadline for **sending the contributions to Valérie**, who assembles the WP Sections and sends them to the WP Coordinators.

❑15 November: deadline for the WP Coordinators to send WP chapters to Valérie.

❑End of November: complete document sent to WP Coordinators for approval.

❑Mid December: Report ready for submission.

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The template (example task 2.3)

I.FAST
Innovation Fostering in Accelerator Science and Technology
Horizon 2020 Research Infrastructures GA n° 101004730

TASK PROGRESS REPORT

Update to cover Period 1 (1.5.2021-31.10.2022)

Work package:	WP2
Task:	Task 2.3
Lead beneficiary:	CNRS
Author:	Nicolas DELERUE

Period covered by the report: from 1 May 2021 to 31 October 2022
Periodic report: Period 1

Instructions are highlighted in green

Text highlighted in yellow: what already published in Year 1 report

In bold: where you should add new information, if relevant

OBJECTIVES

Here below are the objectives reported in Y1 report. Please correct and/or add new objective(s) if needed (in short, possibly with clear and measurable details).

Progress towards objectives during Y1:

- Selected the topic, organised the call for applications and selected the 24 participants for the 1st Challenge-Based Innovation event of I.FAST. A dedicated committee was set-up and met regularly on-line to finalise the programme and select the contributors for the 10-day event.
- Add any new objective here…

Description of the work carried out during Year 1

Please check again the text below corresponding to Y1 report and add at the end the description of all activities (if any) performed between May and October 2022.

During this first year most of the work was done through meetings to which all Task beneficiaries contributed. In total there were 12 steering committee meetings. The steering committee felt that it was necessary to appoint a program committee to help with the selection of the topic of the 2022 Challenge-Based Innovation event, foreseen for July-August 2022. The committee eventually selected "accelerators for the environment" as the topic for the first CBI event. The program committee met twice to define the programme. The steering committee also met to select the 24 participants out of 187 applications. In the selection, together with the qualifications of applicants was taken into account the need to ensure a diversity in gender, country of origin and field of study.

The poster of the CBI is shown in Fig. 3. A website has been setup: http://www.ifast-cbi.particle-accelerators.eu/ and to boost recruitment an article has been published in Accelerating News: https://acceleratingnews.web.cern.ch/news/issue-38/ifast-ifa/accelerators-environment-announcing-ifast-challenge-based-innovation .

Add any new activity and result here…

Contractual milestones and deliverables

In the Y1 reporting period, Task 2.3 had 1 Milestone to submit:

- Milestone MS6: Definition of CBI scheme: proposed topic and organisation at ESI – ACHIEVED
- Add here additional Milestones and Deliverables performed in the last 6 months

Meetings of the Task
At the end of this Table add meetings organised in the last 6 months

Task 2.3		
11.03.2021	Steering Committee	Zoom

Deviations from Annex 1

Please add any new deviation appearing during the last 6 months

Tasks / objectives/deliverables/ milestones	Deviation[1]	Justification	Impact on other tasks

USE OF RESOURCES

If relevant, explain here deviations of the use of resources between actual and planned use of resources in Annex 1, especially related to person-months per work package – maximum a few lines.

Add text here

SCIENTIFIC PUBLICATIONS
List in the table below the publications produced by your task during the last 6 months (publications must have the acknowledgement of I.FAST support!)

Task X	
N°	Author(s), *Title*, References, Date

Summary of exploitable results in Year 1 and an explanation about how they can/will be exploited
If relevant, list in the table below any new result obtained by your Task during the last 6 months) that can be exploited outside of the project (by the scientific community or by industry) – Examples: exploitable scientific results, inventions, patents, etc.

WP	Type of exploitation foreground[2]	Description of exploitable foreground (relevant deliverable)	Purpose (How the foreground might be exploited and by whom)	IPR[3]	Potential/expected impact (quantify where possible)	Exploitable product(s) or measure(s)	Sector(s) of application	Timetable, commercial or any other use

Critical Risks for implementation
If relevant, list in the table below NEW risks that have appeared in your Task (on top of those already listed in the Proposal).

N°	Description of risk	WP	Proposed risk-mitigation measures	State of the play Reference reporting period	State of the play Mitigation measures applied	State of the play Risk materialized	State of the play Comments

Deviations from Annex 1

- Is perhaps the most important section of the Report.
- You should report delays that can impact the preparation of the Deliverables, and
- The goal of the "tour the table" that will follow is to report results and success, but also possible problems that will go into this section.

Deviations from Annex 1

Please add any new deviation appearing during the last 6 months

Tasks / objectives/deliverables/ milestones	Deviation[1]	Justification	Impact on other tasks

[1] Ahead of schedule/ Minor delay/ Significant delay

USE OF RESOURCES

If relevant, explain here deviations of the use of resources between actual and planned use of resources in Annex 1, especially related to person-months per work package – maximum a few lines.
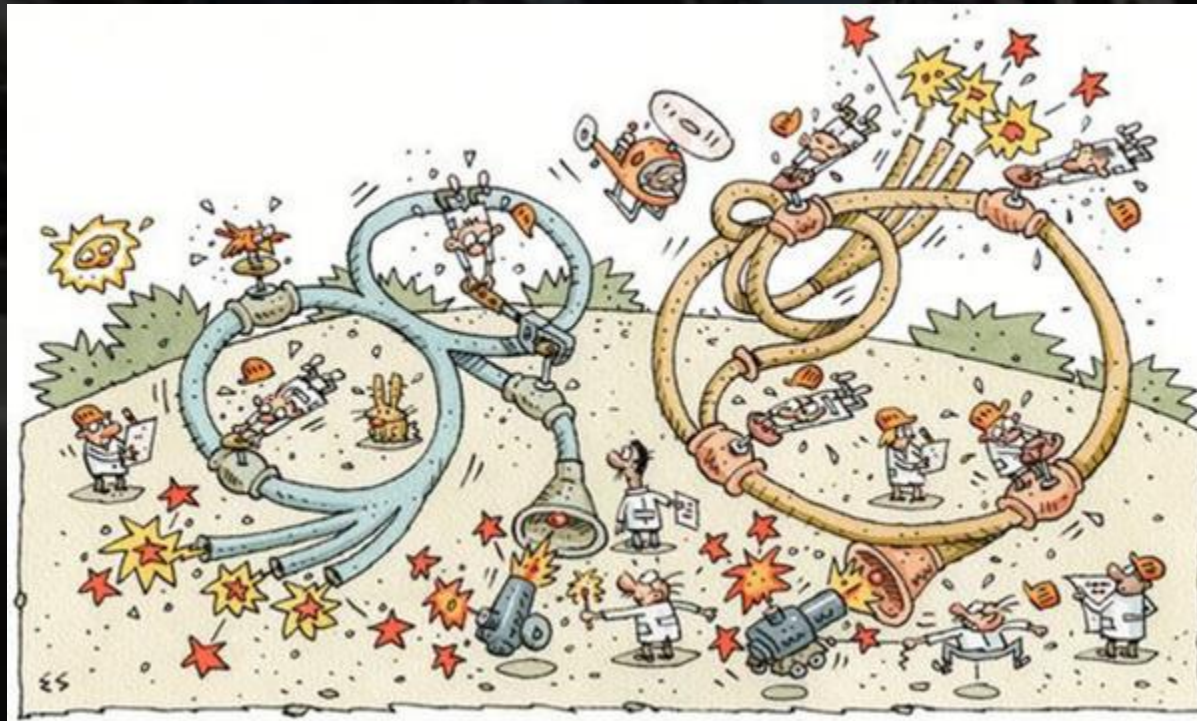
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2023 Annual Meeting in Trieste: 17-21 April

- Parallel WP Meetings: Monday 17 April

- Parallel Meetings (option for larger meeting): Tuesday 18 April

- Governing Board: Wednesday 19 April, morning

- Plenary meeting: from Wednesday 19 April afternoon till Friday 21 April noon.

- Visit of Elettra and/or Kyma: Friday 21 April afternoon.

Location: **NH Hotel Trieste**, Corso Cavour (120 people meeting room, 5 minute walk from train station)

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Image credit: Elwood H. Smith, The New York Times