



M. Vretenar, CERN

1st I.FAST Steering Committee Meeting, 25 June
2021

Goals of the meeting

Thank you for being with us for the 1st I.FAST Steering Committee meeting

We have done our “fast kick-off” of the I.FAST project in May, delaying this 1st meeting of the Steering Committee to the end of the 2nd month of the project, to:

- a) have a first feedback from the WP Coordinators on the start of the project,
- b) present to the Coordinators the complete communication and dissemination strategies and tools,
- c) review future milestones and deliverables,
- d) prepare for the first meeting of the Governing Board in September.

An additional soft objective is of setting up a **team** that will work together on



ing
!

Membership and tasks of Steering Committee (text from CA)

- 6.3.2.1. Members

The Steering Committee shall consist of the **Coordinator**, the **two Deputy Coordinators**, the **Administrative Manager** and the **Work Package Coordinators**. The Coordinator shall chair all meetings of the Steering Committee, unless decided otherwise by a majority of two-thirds. Minutes of Steering Committee meetings, once accepted, shall be sent by the Coordinator to the Governing Board Members for information. *The communication officer is usually invited to the SC meetings.*



- 6.3.2.3. Tasks

- **prepare the meetings**, propose decisions and prepare the agenda of the **Governing Board**.
- seek a consensus among the Parties.
- be responsible for the proper execution and implementation of the **decisions** of the Governing Board.
- **monitor** the effective and efficient implementation of the **project**, **collect information** at least every 6 months on the progress of the Project, examine that information to assess the compliance of the Project with the Consortium Plan and, if necessary, propose modifications of the Consortium Plan to the Governing Board.



- propose to the Governing Board the **Members of the SAC and of the IAB**;
- support the Coordinator in preparing meetings with the Funding Authority and in preparing related data and deliverables



The SC meets at least quarterly

Goals for today:

1. prepare the GB meeting
2. Monitor the correct start of the project

in the (every 3 months) tasks as a result of the project, the Steering Committee shall advise rearrange tasks and budgets of the Parties

3. Prepare a first management

I. FAST Status

- Grant Agreement **signed** by all partners on 22/04.
- **Pre-financing** payment received by CERN, will be distributed after signature of the Consortium Agreement.
- The **Consortium Agreement is not yet** sent to Partners. Many requests for corrections received and slow interaction between lawyers have delayed the completion of the final document. With 48 beneficiaries and 15 Partner Organisations, this is the largest and more complex consortium we ever had in accelerator projects!
- A **final CA version** was sent on 18/06 and immediately triggered the reaction of a partner... we hope to settle this soon and at the latest on **Monday 28/06** send out the automatic DOCUSIGN version (no more changes possible at this stage!) for signature, with one week deadline.



Hopefully, we will receive all signatures by mid-July and then start distributing the **pre-financing** (end of

I.FAST Meetings

My commitment: keep meetings and administration at the minimum, to leave you time to do the work!

Body	Composition	Goal	Meetings	Next Meetings
Governing Board	Representatives of all parties	Changes to contract, financial matters	1 / year	September 2021 (special), May 2022 (regular, at Annual Meeting)
Steering Committee	All WP Coordinators	Scientific decisions on work programme	2 / year	October 2021 March 2022
Enlarged Steering Committee	WP Coordinators + Task Leaders	Information, feedback on activities	2 / year	25/11/2021 (at Lisbon?) May 2022 (at Annual Meeting)
Project Management Team	Coordinator, 2 Deputies, Admin. Manager, Assistant Comm. officer	Day-to-day follow up of administrative, financial and communication issues	6 / year	September 21, November 21
Advisory Bodies	Experts nominated by Gov. Board	Next meetings in person (if Covid-19 allows, backup is to stay online): 24-26 November: Joint ARIES and IFAST Meeting at Lisbon University Conf May 2022 1st IFAST Annual Meeting at the CERN Globe November/December 2022: Enlarged Steering Committee meeting, date and l	1 / year	At Annual Meeting



Governing Board Meeting

The Governing Board is the highest body in the Consortium, one representative per partner (beneficiaries and partner organisations).

- To organise the 1st Governing Board Meeting, the Consortium Agreement has to be approved (mid-July?).
- The meeting of the Governing Board needs >45 days advance notice: **September**.
- Agenda: a) election of the GB chair; b) presentation of project bodies and project status and procedures (Coordinator); c) nomination of the members of Scientific Advisory Committee and Industry Advisory Board.



• Anything else to propose? E.g. budget adjustment requests bw. partners.

Deliverables Year 1

No.	Deliverable	WP	Task	Planned Delivery	Due date	Responsible	Reviewer
D1.1	RI Co-Innovation platform MoU	1	1.4	M6	<u>31-Oct-21</u>	M. Losasso (CERN)	M. Vretenar (CERN)
D1.2	Internal communication Plan	1	1.3	M6	<u>31-Oct-21</u>	Y. Foka (GSI)	M. Losasso (CERN)?
D2.1	Communication strategy	2	2.2	M6	<u>31-Oct-21</u>	A. Le Gall (CERN)	T. Torims (RTU)?
D8.1	HTS European Strategy Group	8	8.1	M6	<u>31-Oct-21</u>	L. Rossi (INFN)	M. Vretenar (CERN)
D8.2	Conceptual Design of curved CCT in LTS	8	8.2	M10	28-Feb-22	L. Rossi (INFN)	O. Malyshev (UKRI)?
D10.3	Additive-manufactured SRF cavities	10	10.3	M12	30-Apr-22	T. Torims (RTU) ?	M. Morandin (INFN)

Procedure:

- **2 months** before due date, a reminder is sent to the responsible person and to the WP Coordinator
- **1 month** before due date: the deliverable report must be **uploaded on the IFAST SharePoint**, to be accessed by the reviewer(s) who review and approve the report on behalf of the Steering Committee. Each deliverable will be attributed a reviewer from the SC.
- **15 days** before due date, the reviewer sends the comments to the authors, with one week delay to implement possible corrections.
- **1 week** before due date, the deliverable is sent to the Project Coordinator for final approval.

Milestones Year 1

MS4	WP2 task leaders' kick-off meeting	2.1	M2
MS1	Information Flow management tool installed	1.2	M3
MS2	Dissemination plan ready	1.3	M3
MS7	Expert Committee set up and industrial training scheme call organised	2.4	M6
MS8	Industry Advisory Board launch	3.1	M6
MS32	Characterization of the first length of superconductor for low losses	8.2	M6
MS42	ARIES samples prepared for renewed SC film deposition	9.6	M6
MS50	Workshop on energy for sustainable science at research infrastructures, at ESRF	11.1	M6
MS9	I.FAST KT Report ready	3.2	M10
MS33	Conceptual design of HTS magnet	8.3	M10
MS14	Evaluation of a CCM alternative to Molybdenum-Graphite	4.4	M12
MS23	Target manufacturing and characterization	6.3	M12
MS6	Definition of CBI scheme: proposed topic and organisation at ESI	2.3	M12
MS38	First seamless copper 1.3 GHz cavity produced as substrate for the coating of the SC film	9.2	M12
MS39	Coating facility built and tested at STFC, USI and INFN	9.3	M12
MS43	Dissemination and communication plan	10.1	M12
MS46	Performance of Superconductive Cavities made by AM technology by Nb or Cu with Nb thin spatter	10.4	M12
MS47	First NEG coated samples are installed on SR beamline at DLS and Soleil	10.5	M12
MS49	Delivery of an electro-optic waveguide prototype for demonstration at RHUL test bench	10.7	M12
MS55	Design review	11.2	M12
MS57	Projects identification for development funding	12.1	M10
MS63	Demonstration of operation with high efficiency and nominal power of the first GaN amplifier	13.3	M12



A reminder for Milestones is sent one month before the due date

Scientific Advisory Committee

The SAC shall be composed of **scientists based on their expertise in the activity areas of the Project**. Its members shall be proposed by the Steering Committee and approved by the Governing Board. The work of the SAC shall be overseen by the Governing Board. The SAC shall advise on technical and strategic matters discussed by the Steering Committee.

Proposal: 3 members, like in ARIES and EuCARD2 (for economic reasons, and because usually the work of the SAC is really minimum)

Composition:

- Not from an I.FAST beneficiary or partner institute;
- Possibly with a wide experience in accelerator R&D;
- At least one member must be female;
- Members must be available enough to find the time to be present at our Annual Meetings

SAC membership proposals

- Prof. Luisa Chiesa, univ. of Tuft (USA), expert in SC magnets and cable.
- **Susanna Guiducci** or **Marica Biagini**: both are now retired from INFN, so more available for such committee. And are well-known accelerator physicists.
- Prof. **Elina PAJUSTE** from University of
- **Nan Phinney** (SLAC, retired, but she m
- **Michiko Minty** (BNL)
- Hugh Montgomery (JLab, retired)
- Katsunobu Oide (KEK, retired)
- Mark Palmer (BNL)
- C. Welsch (Liverpool)
- A. Yamamoto (KEK, retired)
- **Mei Bai** (SLAC)
- Andrew Hutton (JLab) and Akira Yamamo
- Norbert Holtkamp (SLAC).

My proposal:

- **Akira Yamamoto** was already in EuCARD2, ARIES and AMICI and is a perfect SAC member. We could propose him to continue in I.FAST. With K. Oide as reserve?
- **Carsten Welsch** is not in IFAST (he is from Liverpool Univ.), has participated in many accelerator projects, is active on many fronts and with excellent connections, and is young enough to find time to come to our meetings!
- In absence of a stronger female candidate, Susanna Guiducci (M. Biagini as reserve) could definitely be a strong SAC member,

Lisbon Meeting in November

Profiting of the preparation work done for the canceled

Dates: 22-23 November 2021: available for WP Meetings

24 November: ARIES day

25 November (Thursday): IFAST day

26 November: EU projects for accelerators

“From ARIES to IFAST and other instruments: the strategic role of EU programmes in supporting the accelerator community” and foresee sessions on:

- ARIES, with results of JRAs and TA's, meeting of Steering Committee;
- transition from ARIES to IFAST of networks, strategies, other activities;
- IFAST new initiatives, and meeting of Steering Committee;
- presentation of new projects in preparation (EUROlabs, ESPP);
- from ARIES PoC to IFAST Innovation Fund, and modalities to involve industry in our initiatives;
- requests from our “users”: particle physics, nuclear, photon and neutron science, etc.

~~ARIES 2020 Meeting~~
3RD ANNUAL MEETING
20-24 APRIL 2020
Instituto Superior Técnico
Lisbon, Portugal

The ARIES project invites its wide accelerator R&D community to convene in Lisbon, Portugal, in April 2020, to share recent results and to discuss future activities.

PROGRAMME
Monday 20 April – Tuesday 21 April
Work Package Parallel Meetings
Wednesday 22 April – Friday 24 April
Plenary Sessions

ORGANISING COMMITTEE:
Valérie Brunner (CERN)
Ana Luisa Matias (IST)
Cláudia Romão (IST)
Jorge Vieira (IST)
Maurizio Vretenar (CERN)



ARIES has received funding from the European Union's Horizon 2020 Research and Innovation programme (GA No 730871)



Programme committee: ARIES and IFAST
Steering Committees

Today's agenda

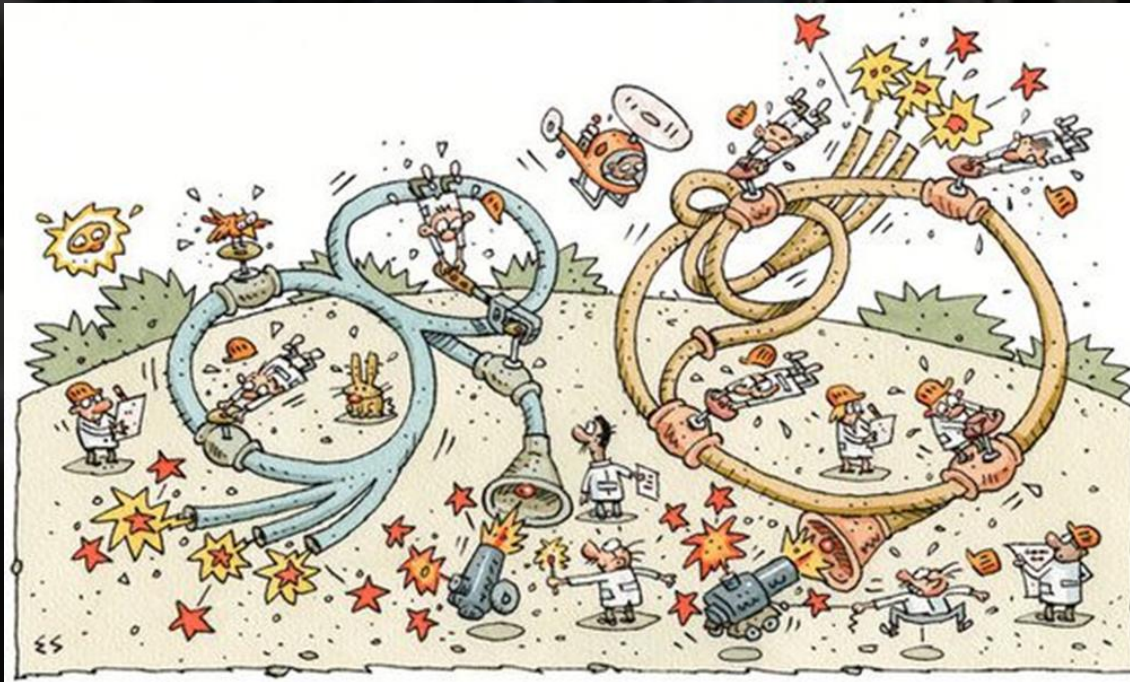
- Only 10 minutes per WP, not much time...
- I am expecting from the WP Coordinators some information on:
 - How the work has started in your WP (including all Tasks!)
 - The work plan for the next months
 - Plans for Deliverables and Milestones expected in Year 1

- We will start project dissemination to

14:00	→ 14:20	Report from the Project Coordinator: Consortium Agreement, Meetings, Scientific Advisory Board Speaker: Maurizio Vretenar (CERN)	⌚ 20m
14:20	→ 14:30	Discussion on SAC composition	⌚ 10m
14:30	→ 14:40	Communication activities Speaker: Antoine Le Gall (Ministere des affaires etrangeres et europeennes (FR))	⌚ 10m
14:40	→ 14:50	Information Flow Management Speaker: Toms Torims (Riga Technical University)	⌚ 10m
14:50	→ 15:00	Internal Communication and Dissemination Speaker: Yiota Foka (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))	⌚ 10m
15:00	→ 17:15	Reports from WP Coordinators	

iFAST

Thank you for your attention!




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

I.FAST Structure, Coordinators, Task Leaders

				Task Leader	Deputy	
WP1	Management, coordination and dissemination	M. Vretenar (CERN)	1.1	Project management, external coordination, sustainability	M. Vretenar (CERN)	
			1.2	Information flow management and cross-coordination	T. Torims (RTU)	
			1.3	Internal communication and dissemination	P. Foka (GSI)	
			1.4	Relation with other innovation pilots	M.Losasso (CERN)	
WP2	Training, communications and outreach for accelerator science and technology in Europe	P. Burrows (UOXF)	2.1	Management	P. Burrows (UOXF)	
			2.2	Communication and outreach	D. Antonio (CERN)	
			2.3	Challenge-based innovation (CBI) with particle accelerators	N. Delerue (CNRS)	
			2.4	Industrial Training associated with knowledge transfer	T. Ekelof (UU)	
WP3	Industry engagement	M. Morandin (INFN)	3.1	Coordination and industrial partnership support	M. Morandin (INFN)	
			3.2	Knowledge transfer and business opportunities in accelerators R&D	A. Willner (DESY)	
			3.3	Extended participation of industry in collaborative R&D activities	Jose M. Perez (CIEMAT)	
WP4	Managing innovation, new materials	M. Losasso (CERN)	4.1	Innovation management and committee	M. Losasso (CERN)	
			4.2	Management of the Innovation Fund	M. Losasso (CERN)	
			4.3	Innovative beam windows for high-power accelerator applications	M. Losasso (CERN)	M. Tomut (GSI)
			4.4	Large scale Carbide-Carbon Materials for multipurpose applications	F. Carra (CERN)	
WP5	Strategies and Milestones for Accelerator Research and Technologies	F. Zimmermann (CERN), N. Pastrone (INFN), P. Fork (GSI)	5.1	MUon colliders STRategy network (MUST)	N. Pastrone (INFN)	
			5.2	Pushing Accelerator Frontiers (PAF)	F. Zimmermann (CERN)	G. Franchetti (GSI)
			5.3	Improvement of Resonant slow EXtraction spill quality (REX)	P. Fork (GSI)	
WP6	Novel Particle Accelerators Concepts and Technologies	R. Assmann (DESY)	6.1	Novel Particle Accelerators Concepts and Technologies	R. Assmann (DESY)	
			6.2	LASers for PLasma Accelerators	I. Gizzi (CNR)	
			6.3	Multi-scale Innovative targets for laser-plasma accelerators	C. Thaury (CNRS)	
			6.4	Laser focal spot stabilization systems	F. Mathieu (CNRS)	
WP7	High Brightness Accelerators for Light Sources	R. Bartolini (DESY)	7.1	Coordination & communication	R. Bartolini (DESY)	
			7.2	Enabling Technologies for Ultra-Low Emittance Ring	R. Bartolini (DESY)	
			7.3	Variable Dipole for the upgrade of the ELETTRA storage ring	Y. Papaphilippou (CERN)	
			7.4	Very high gradient RF Guns operating in the C-band RF technology	D. Alesini (INFN)	
			7.5	CompactLight Prototype Accelerating Structure	G. D'Auria (Elettra)	
WP8	Innovative superconducting magnets	L. Rossi (INFN), L. Quettier (CEA), G. Roux (GSI)	8.1	Coordination and HTS Strategy Group	L. Rossi (INFN)	D. Schoerling (CERN)
			8.2	Preliminary Engineering design of curved CCT magnet	L. Rossi (INFN)	
			8.3	Preliminary Engineering design of HTS CCT	L. Quettier (CEA)	D. Schoerling (CERN)
			8.4	Construction of curved CCT magnet demonstrator	M. Gehring (BNG)	M. Vieweg (Scanditronix)
			8.5	Construction of HTS CCT magnet demonstrator	F. Forest (Sigmaphi)	A. Echeandia (Elytt)
			8.6	Development of ReBCO HTS nuclotron cable	T. Winkler (GSI)	G. Roux (GSI)
WP9	Innovative superconducting thin film coated cavities	C. Antoine (CEA), O. Malyshev (UKRI)	9.1	Coordination and Strategy for Innovative SC Cavities	C. Antoine (CEA)	O. Malyshev (UKRI)
			9.2	Innovative Superconducting Accelerating Cavities	C. Pira (INFN)	
			9.3	Optimisation of process parameters and target development	R. Valizadeh (UKRI)	
			9.4	Surface Engineering by Atomic Layer Deposition (ALD)	T. Proslie (CEA)	
			9.5	Improvement of mechanical and SC properties by laser radiation	A. Medvids (RTU)	
			9.6	Optimization of flat SRF thin films production procedure	O. Kugeler (HZB)	
WP10	Advanced Accelerator technologies	T. Torims (RTU)	10.1	Coordination and communication	T. Torims (RTU)	
			10.2	Additive Manufacturing – Survey of applications and potential developments	M. Vedani (POLIMI)	
			10.3	Refurbishment of accelerator components by AM technologies	T. Torims (RTU)	
			10.4	Development of AM-manufactured superconductive RF cavities	M. Pepato (INFN)	
			10.5	Photon Stimulated Desorption (PSD) from NEG coatings	O. Malyshev (UKRI)	
			10.6	Machine learning techniques for accelerator and target instrumentation	T. Shea (ESS)	
			10.7	Electro-optical waveguide sensors as beam electric field sensors	S. Gibson (RHUL)	
WP11	Sustainable concepts and technologies	M. Seidel (PSI)	11.1	Sustainable Concepts for Accelerator driven Research Infrastructures	M. Seidel (PSI)	
			11.2	High Efficiency Klystron Industrial Prototype	O. Brunner (CERN)	
			11.3	Permanent Magnet Quadrupoles & Combined Function Magnets for ULE Rings	B. Shepherd (UKRI)	
WP12	Societal Applications	R. Edgecock (HUD)	12.1	A Strategy for Implementing Novel Societal Applications of Accelerators	R. Edgecock (HUD)	
			12.2	Design of advanced electron accelerator plant for biohazards treatment	A. Chmeliewski (INCT)	
			12.3	Design of Internal Rf Ion Source for Cyclotrons	J. Perez (CIEMAT)	
WP13	Technology Infrastructure	S. Leray (CEA)	13.1	Strategy for the development of the AMICI TI	S. Leray (CEA)	
			13.2	Developing and promoting services to industry in AMICI TFs	DESY	
			13.3	New RF amplifiers based on GaN Semiconductors	D. Dancila (UU)	
WP14	Ethics Requirements	P. Foka (GSI)	14.1	Data Protection, Health and Safety	P. Foka (GSI)	

Tools and support, acknowledgements

- The next presentations will cover some tools that we have prepared for you:
 - Web site: <https://ifast-project.eu/>
 - Sharepoint to share internal documents and information and to follow-up milestones and deliverables:
<https://espace.cern.ch/project-IFAST-Intranet>
 - Zenodo to publish notes, reports, presentations and other documents for an external audience:
<https://zenodo.org/communities/ifast/?page=1&size=20>
- Please never forget in your publications and presentations the acknowledgement to EU support:
 This project has received funding from the European Union Horizon 2020 Research and Innovation programme under GA No 101004730.