



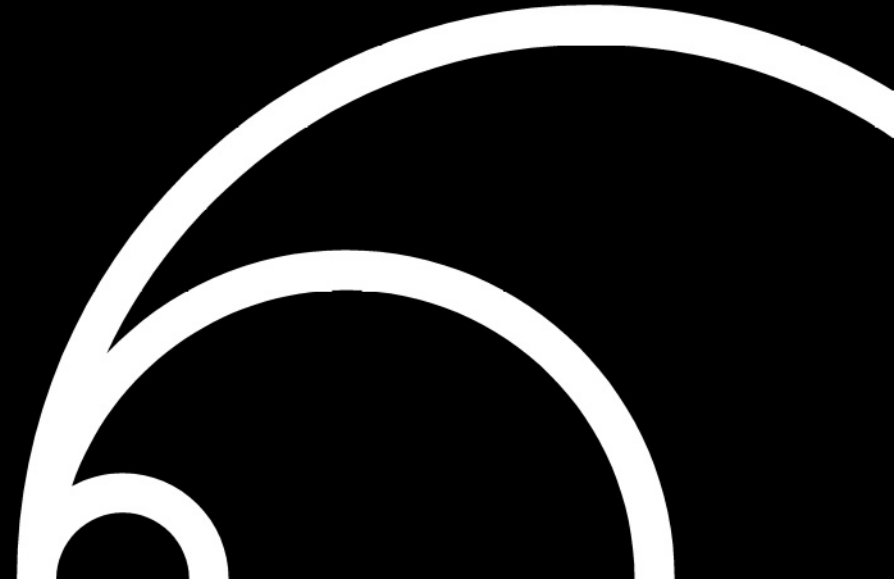
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# IFAST Industry Workshop

PC meeting, 8 Feb. 2022

M. Morandin - INFN/PD  
IFAST-WP3

IFAST



# Organization of topics (II)

- The WS is an opportunity **discuss together issues** that are of common interest (presentation, also from a combination of ind. and RI repres., round tables, surveys)
  - **organization of the R&D activities** in Europe
    - is the evolution of the European projects on the right track ?
    - what input can be provided for the next EC round of funding programs ?
  - the **evolution of the particle accelerator market**: synergies with the accelerator community (Industry and RI) ?
  - **accelerator technology infrastructures**: next steps ?
  - **important aspects impacting the effectiveness of the co-innovation** approach :
    - exchange of information between RI and industry
    - use of funding opportunities, co-funding
    - exploitation of Industry-Academia complementarity
    - IP management
    - differences approach in the various European countries
    - early consideration of market-related aspects

# ... from the Amici-Aries Ind. WS

## The particle accelerator market

Robert Hamm

*The particle accelerator market, present status and future opportunities*

## EC funding opportunities for industry-RI collaboration and SMEs projects

Philippe FROISSARD

*Developments in the policy for innovation in Research Infrastructures for advanced communities*

Manuel Mendigutia

*The SME Instrument and the Fast Track to Innovation*

Mr Samuel Maenhout

*EU Access to Finance for Research and Innovation*

## Collaboration Models

Mark Plesko

*How can industry collaborate with large laboratories and its benefits?*

Jean Luc Lancelot

*Co-financing R&D - a win-win opportunity for industry*

Antonio Pellecchia

*Opportunities for industry to exploit technologies in co-innovation activities*

Prof. Toms Torims

*Comparison of existing schemes for supporting Industry-Academia co-innovation*

Philipp Topic

*Accelerator technology markets and economic benefits of accelerator R&D from an economist's perspective*

## Technologies and market exploitation

Ziad melhem

*Superconducting magnets, from accelerators to society*

Julio Lucas

*Permanent and conventional magnets from laboratory to market: how R&D can develop into business*

Alexander Usoskin

*High Temperature Coated Superconductors, at the edge of technology*

Riko Wichmann

*Lessons from XFEL construction*

# Possible contribution from IFAST

## WP3

- Task WP3.3 is carrying out a study aimed at examining in detail possibilities to enlarge the industrial involvement of companies in accelerator-related R&D activities
  - First: survey among the companies to collect suggestions, ideas, ambitions, perceived obstacles...
  - Second: discussions with RIs on how to address the issue, understand the constraints and the possible improvements to be pursued

# Organization of topics (I)

- The WS is an opportunity **to communicate** (presentations + discussions + B2B meetings ?)
  - from **IFAST**:
    - what technical challenges, developments are being pursued and are worth sharing with industry at large ?
      - what are still further possibilities of involvement for industry in the R&D activities ?
    - additional ways of strengthening the cooperation that IFAST will offer (Training program, IIF, engagement in WP3 activities)
  - from the **Research Infrastr. and Labs** (TIARA, Amici collab.):
    - what important opportunities of cooperation between industry and RI are expected in the near future ?
    - on a longer timescale ?
  - from **Industry**: what is changing in industry that might an impact the collaboration with the R.I. ?

# Possible topic for the IW

- Mini-session on impact of new **sustainability** goals for Accelerators
- RI are paying more and more attention to the impact of their facilities to the environment, both in the construction and the operation phases,
  - e.g.: CERN aims at becoming a role model of an environmentally-aware research Laboratory.
  - in IFAST WP11 deals with developments that can have an impact on energy efficiency
- This will affect not only the design of machines and systems, but also the **procurement of materials and components** from industry
  - CERN is planning to review the Procurement rules starting this year
- we could plan to schedule **2-3 talks and a discussion**
  - an introductory talk by a RI representative
    - M. Seidel (PSI) is giving an introductory talk in WP11 on Thu. "*Sustainable Concepts and Technologies*" - We could ask him to make a presentation more focused on industrial aspects and impacts on Tue. afternoon
  - a talk by an industry representative
  - a talk on the possible impact on procurement practices and rules

# Prog. Comm. work plan

- **2<sup>nd</sup> meeting** (Tue. Feb. 8) :
  - discussion of proposals for the topics of the various sessions
  - first list of possible speakers
- **in-between**: contact speakers
- **3<sup>rd</sup> meeting** (if needed)
  - expanded list of speakers
  - final adjustments
  - aob

# BACKUP



# The I.FAST Industry workshop

- **Goals:**

- make the European **Industry** at large aware of the **main developments** in Accelerator-related technology being pursued in I.FAST
- provide information on opportunities of engagement in I.FAST
  - **Innovation Fund**
  - **Ind. Training program**
  - ...
- get **feedback** from industry on their **expectations/ideas/concerns** for the future
- provide a synthetic yet effective overview of the **major project developments with accelerators** both in Research Institutions worldwide, as well as in specific application fields (e.g. medical sector)

- **Time:**

- in the week of the **first IFAST annual meeting ( May 2-6 )**

- **Location: CERN**, mainly at the **globe** (doesn't require entering CERN)

# WS Sessions: a possible layout

Time slot	Industry workshop	IFAST Annual meeting
Mon. - afternoon 1		WP parallel session
Mon. - afternoon 2		WP parallel session
Tue. - morning 1	What's next in frontier machines	WP parallel session
Tue. - morning 2	What's next in high intensity machines	WP parallel session
Tue. - afternoon 1	What's next in special application machines	WP parallel session
Tue. - afternoon 2	Feedback from industry - round table	WP parallel session
Tue. - afternoon 3		IAB meeting
Wed. - morning 1	Technological challenges ahead	
Wed. - morning 2	IFAST General Presentation	
Wed. - afternoon 1	IFAST Industry-related presentations	
Wed. - afternoon 2	IFAST Industry-related presentations	