

# AMICI

## Advisory Group meeting

### January 24, 2019

### Salerno

Andrew Hutton

Arifé Yildirim



EUROPEAN COMMISSION  
DIRECTORATE-GENERAL FOR RESEARCH & INNOVATION  
Research infrastructure



## Question 1 :

Can we and should we extend the Spanish 'Ineustar' model to European Science Industry?

NO

Input from industry partners needed on possible mode of interaction:

- ☐ Association of private companies foreseen via an “associated industry partnership”
- ☐ Informal group of associated industry partners elects a representative (1 person) for the AMICI Collaboration Board
  - To receive information about developments with TFs
  - To influence future developments of TFs

**Is that a conceivable model to industry?**

**NO**



The Advisory Group recommends that each company participates directly in AMICI, not as part of a consortium

**Question: What advantage does a company have as a member of AMICI?**

The Advisory Group recommends maintaining the status defined two years ago:

An Advisory Group (AG) will be appointed and steered by the Steering Committee. The AG shall give advice and recommendations on strategic matters to the Steering Committee and report them to the General Assembly.

The chair of the AG will be designated by the Steering Committee and shall be allowed to participate in General Assembly meetings upon invitation but has not any voting rights.

The Advisory Group should be limited to individuals from industry

In this report on the *Networking and coordination model* a structure for the future environment of AMICI 2 is proposed. The structure consists of a Core Group with Coordination Team surrounded by a 2<sup>nd</sup> circle network.

- Is the proposed structure accepted?
- Are the tasks and duties too strict/too weak?
- Is the model understood by authorities?
- Can non-EU industry be a part of the AMICI 2 or only the 2<sup>nd</sup> circle?
- Is a contract needed for realization of the coordination model?
- What type of a contract is the best for this coordination model?
- What are the best channels of communication for each connection on the graph?
- How to introduce AMICI 2? As a project, a group, a part of the model or an organization?

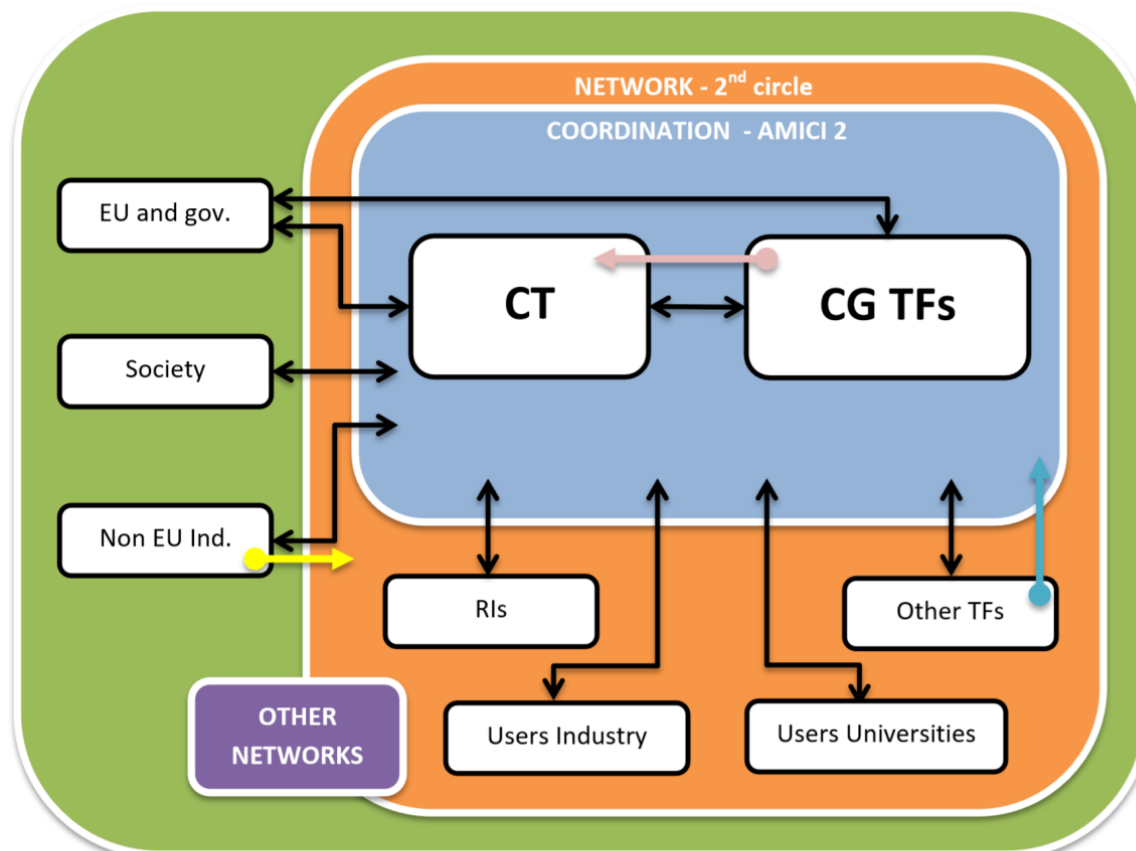


Figure 2: Graph representing the model of coordination and the channels of communication (black arrows). **Blue** area - coordinated EU TIs (AMICI 2), **orange** area - members of the network (2<sup>nd</sup> circle), **purple** area - other networks, **green** area - whole environment. **Pink**, **yellow** and **blue** arrows represent possible transfers.

The Advisory Group accepts this vision – would like to see more detail e.g. who is in the Coordination Team

Key Technology Areas identified in the WP2 :

1. Particle sources
2. 'High precision' magnets
3. High field SC magnets
4. Normal Conducting RF cavities
5. SRF structures
6. Radio Frequency power sources
7. Cryogenics
8. Beam instrumentation

## Question 2:

Are the 8 Key Technology Areas well identified, and does the European Science Industry need to reinforce its strength on a few of them?

**Walid to expand SRF, and add modulators to RF Power sources**

There is no mention of system integration

The Advisory Group recommends developing a statement as to how systems can be included in AMICI goals similar to the list of Key Technologies Areas

The Advisory Group will submit a recommendation when to “build-to-print,” when to build to performance and when industry should participate in design

We will also make a recommendation regarding prototyping and series production relating to IP rights



## **Progress:**

- We formulated the eligibility criteria to access the core group of the Technology Infrastructure (D3.1) and drafted an Collaboration Agreement model for its core group members, supporting a set of ambitious goals.

## **Focus:**

- Finalize the Collaboration Agreement model and obtain the recommendations from the AMICI Institute directorates.
- Formulate terms of University and Industry partnerships with the core group.

## 3.6. The goals of the Collaboration are to:

- Found a joint European Technology Infrastructure dedicated to the development, testing and production of accelerator components and superconducting (SC) magnets
- Sustain the Infrastructure considered part of the AMICI Collaboration
- Define the contents of the infrastructure of the AMICI partners and the necessary alignment for a common (across all Parties) Infrastructure
- Define the roadmap of AMICI infrastructure for strategic evolution and development
- Setup project and working groups of common interest
- Seek financing for the implementation of the roadmap
- Ensure availability of the AMICI infrastructure within the AMICI Collaboration and its access by external partners
- Ensure the availability of highly trained personnel to operate the AMICI Technological Facilities
- Ensure long term support, maintenance and development of the AMICI infrastructures
- Promote the availability of the AMICI infrastructure to external partners in particular to industrial partners
- Set-up a common compensation scheme for industrial use of AMICI infrastructure
- Set-up common rules and regulations for access to the AMICI infrastructures
- Propose training for external users, in particular industry, in the know-how, techniques and quality standards of the TFs
- Set-up, maintain and provide access to a database allowing preservation and dissemination of the common knowledge and know-how within the members and to the benefit of external users

### **Question 3:**

Are these goals attractive enough to stimulate the participation of European Science Industry, and how should partnership and liaising be organized?

The *Industrialization*-related activities aim at keeping European Science Industry at the forefront of the international competition, in terms of technology, quality and costs, in view of the construction of future scientific research instruments in Europe and elsewhere.

## Question 4 :

Is there some other crucial aspect of Industrialization of Research Infrastructures which is not scrutinized by WP5?

# Goal of the 2<sup>nd</sup> Annual Meeting

This is the last Meeting before the end of the AMICI project.

Our overarching goal should be to gain the support of the EC and Agencies to our findings and proposals.

For that, we have to:

- 1) Demonstrate the central and irreplaceable role of the Technology Infrastructure for the European Research Infrastructures, and
- 2) Demonstrate its benefit to European Science Industry.

## **Question 5 (optional):**

Do you have any suggestion how to reinforce these 'demonstrations' ?

Demonstrate the central and irreplaceable role of the Technology Infrastructure for the European Research Infrastructures

**RIs should provide examples**

Demonstrate its benefit to European Science Industry

**Industry should provide examples**

A European Forum on accelerators and magnets Tl gathering scientists, engineers and industry that will be organized in Brussels on **Month 24** to present the work done in the different WPs and discuss the long-term strategy for TIs

### **Question 6 (optional):**

Do you have any suggestion about the content and the format of this forum ?

