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# AMICI

Accelerator and Magnet Infrastructure for Cooperation and Innovation  
Horizon 2020 / Coordination and Support Action (CSA)

## DELIVERABLE REPORT

# REPORT ON THE NETWORKING AND COORDINATION MODEL

## DELIVERABLE: D3.2

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### Delivery Slip

	Name	Partner	Date
<b>Authored by</b>	A. Szeliga	IFJ PAN	10/06/2019
<b>Reviewed by</b>	H. Weise [WP3 leader]	DESY	19/06/2019
<b>Approved by</b>	O. Napoly [AMICI coordinator]	CEA	30/06/2019

## 1. INTRODUCTION

The overall goal of WP3 is to define the conditions for the Technological Facilities' (TFs) coordination in the area of accelerators and superconducting magnets in order to harmonize their operation and increase their efficiency, to adapt to the development of present and future European Research Infrastructures, and to establish a co-innovation platform with industry.

The goal of Task 3.2 was to investigate the possible networking and coordination models for a future AMICI Collaboration. The present document describes the model and the roles of the Core Group and the relations between the group and other associated partners from academia and industry (see fig. 1).

Definitions and/or roles within the European Technology Infrastructure in the context of AMICI are given for:

- the AMICI Collaboration (the future framework)
  - the Core Group CG,
  - the Collaboration Board CB,
  - the Chair of Collaboration Board,
  - the Collaboration Secretariat,
  - the Managing Institute,
  - the Coordination Team CT,
  - the Industry Liaison Group ILG,
- the 2nd Circle of Associated Partners
  - Universities and other Technological Facilities,

The Technology Infrastructure as an entity has relationships with:

- the Research Infrastructures RIs,
- the Industry Advisory Board AB,
- the Industry Liaison Officers ILOs,
- the Technology Transfer offices TTs,
- the EU industry incl. small and medium enterprises (SMEs),
- the non-EU industry.

## 2. COORDINATION MODEL

The AMICI Collaboration, depicted in figure 1, is embedded in a general Technology Infrastructure environment and has well defined interfaces to Research Infrastructures and industry. The AMICI Collaboration Board supervises the Coordination Team, which includes the Industry Liaison Group supported by the AMICI members' Industry Liaison Officers and Technology Transfer experts. The CB cultivates a strong liaison to Research Infrastructures, preferable but not exclusively European. At the same time, the CB searches for advice from industry, and consults with the respective Industry Advisory Board. Partnership with industry (emphasis on accelerator components and superconducting magnets) is searched for and practised with both, larger companies, but also Small and Medium Enterprises specialized on the often challenging key technologies covered by AMICI.

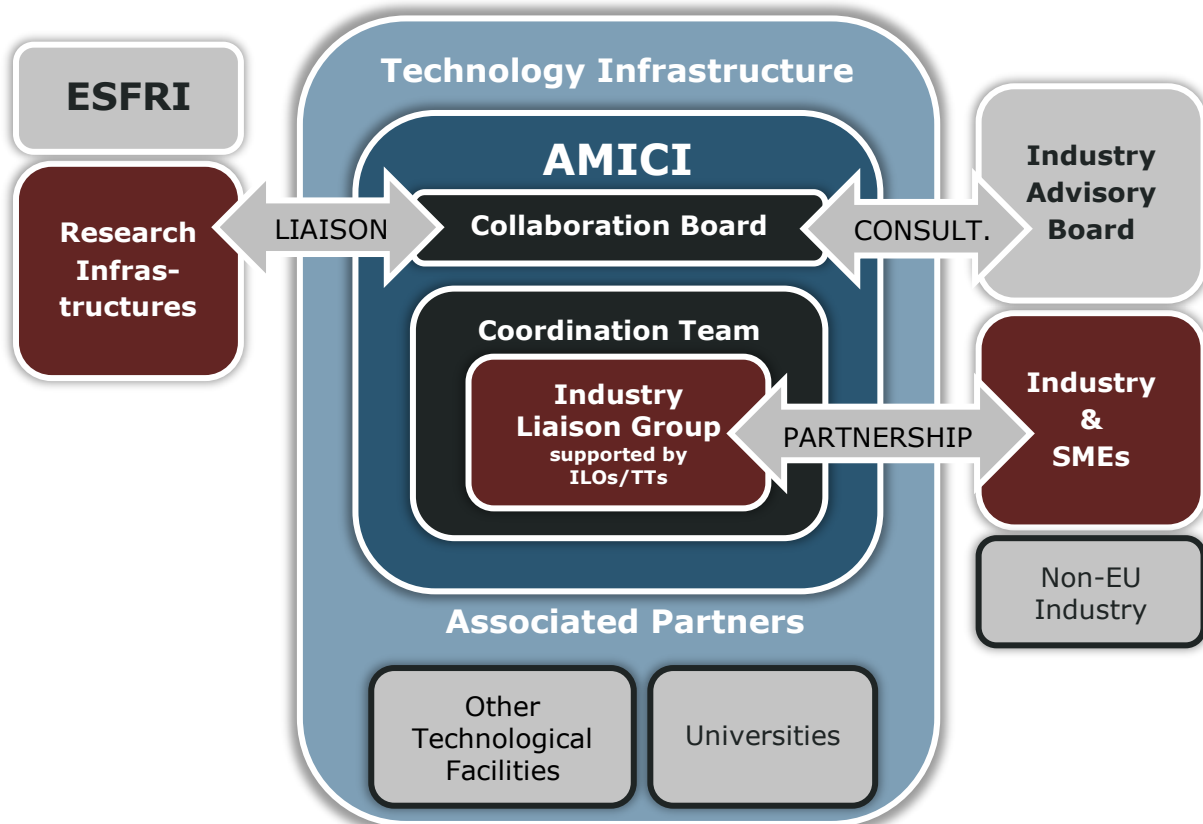
The liaison between the CB and the RIs will effectively help to adapt and optimize the Technology Infrastructure to the requirements of European RIs, with consideration of ESFRI objectives. The RIs will be able to address the entire European Technology Infrastructure through one body – the CB, to express their needs in order to profit from the TFs and their capabilities available within the collaboration.

The right hand side of the diagram is dedicated to industry, as the second crucial goal of AMICI will be the efficient use of established links to industry and to SMEs. Nevertheless, the collaboration will be open for an industrial membership.

The Industry AB will be a body, which is asked to give advice and recommendations on strategic matters to the CB. Members of the Industry AB will be invited in person by the CB, but not as a representative of their company. In addition, it is recommended that the Industry AB should be limited to individuals from industry.

The non-EU industry does not have an assigned role in the model. However, it can benefit from public information shared by entities in the created network.

The centre part of figure 1 shows the AMICI Collaboration in the worldwide environment of Technology Infrastructure. Several Technological Facilities and universities can and will have a non-member but associated partnership status.



**Figure 1: Graph representing the coordination model.**

## **2.1. THE AMICI COLLABORATION**

The collaboration will consist of many entities forming the Core Group with Associate Partners. The H2020 AMICI project members will become Core Members and initiate the CG. This CG is the group of the TFs aiming for coordination of their facilities, checking the available capabilities, and harmonizing access and services across them. The AMICI Collaboration does not aim to take over the role of particular laboratories to coordinate future projects. Communication and information sharing will be essential. Among others, this will prevent service duplication in the environment, help to fill gaps, boost cooperation and last but not least innovation. The common goal is higher efficiency, easier access to the TFs by external partners by harmonization of rules and procedures and in general offering a more unified landscape of the European Technology Infrastructure. The Core Members must fulfil the eligibility criteria defined by task 3.1 of the H2020 AMICI project.

The collaboration is governed by a collaboration agreement. The collaboration agreement regulates the relations between the different entities. It is established by task 3.3 of the H2020 AMICI project.

Representatives from each Core Member and the group of Associated Partners will create the CB. The CB can decide to invite further representatives from the major RIs construction projects. The CB will be the worthy representative of the collaboration and a large part of the European Technology Infrastructure.

The Chair of CB will be elected by the CB. The Chair will represent the collaboration worldwide. He or she will represent the Collaboration in discussions with the EU and governments. At the same time, the Chair is supervising the Managing Institute, which takes the role as Coordinator.

The Managing Institute will be selected by the CB and will provide the Collaboration Secretariat.

The Chair of the CB will be supported by the Coordination Team. It will guarantee the coordination mechanism. It will also communicate and coordinates common activities with partners outside AMICI, as well as with industry and SMEs by means of the Industry AB, the different TTs, and ILOs. Only the representatives of the Core Group may be elected to the Coordination Team.

Association will require a simple contract, because the Associated Partners will have special privileges and through their common representative a voice in the CB. The association is dedicated especially for those who do not fulfil the eligibility criteria. It will also be the first step to become a Core Member.

## **2.2. TI ENVIRONMENT AND ASSOCIATED PARTNERSHIP**

The general TI environment and network will include universities and TFs without a signed agreement and not fulfilling the eligibility criteria. The network has the aim to enhance communication and information sharing between all entities in the domain. Created network links will increase innovation and will support smaller research centres and universities in their participation in e.g. larger research infrastructure projects they otherwise may not have access to. Within the network, all units should share at least description, contact information and basic information about plans and needs as well as achievements. The association with the AMICI

Collaboration is meant to strengthen the links and networking also among the members outside the Core Group.

AMICI partners are integrated into collaborative efforts, either project related or as the consequence of long-term R&D programs. Thus, a networking relationship already exists in principle. Nevertheless, the more systematic and beneficial way of networking will shortly encourage other TFs and universities to become participants.

To fulfil the networking and coordination objectives an exchange platform is necessary. It has to have restricted and dedicated access for each defined group. In addition, it should provide public access to selected information. The present AMICI-EU platform already fulfils this condition to some extent.

### **2.3. TASKS AND EXPECTATIONS**

It is anticipated that the existence of the AMICI Collaboration will:

- Build and improve trust within its members and the domain.
- Help the members to keep-up-to-date within the environment.
- Outline trends in the domain.
- Assist and help in looking for collaborators within it.

Coordination efforts issued by the CB and its Chair, realized by the CT, will have the following goals:

- Promotion of the availability of 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 to 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.

Expectations are:

- Providing better visibility.
- Providing easier access to Technical Platforms (TPs).
- Enhanced usage of TPs.
- Supporting sustainability of TPs.
- Extension of the capability of TPs.
- Strengthening each partner.
- Harmonization of technology and knowledge transfer.
- Help in offering packages for industry.

On the other hand, there are conflicting issues that coordination should cope with:

- Losing decision power.
- Losing own funding.
- Losing own visibility.
- Losing TPs against own will.

Keeping these rules will be the mechanism of coordination. Cooperation will be held by willingness, trust, and honesty.

### **3. SUMMARY**

WP3.2 task realization leads to the description of a suitable coordination and networking model for the TFs in the area of accelerators and superconducting magnets.

In the model, we propose the AMICI Collaboration, liaison with European Research Infrastructures and partnership with industry. The internal structure of the collaboration will enable effective coordination of Technological Facilities and will create for RIs the single body as access point to the entire European Technology Infrastructure within the collaboration. The proposed network will improve information sharing and will guarantee access for smaller universities and Technological Facilities to participate in large-scale endeavours.

Many elements of the model may be realized by adapting the existing structures of the H02020 AMICI project.

An exchange platform is necessary to fulfil the networking and coordination objectives. The AMICI-EU platform can be used as an initial point.