

# Work Package 3 „Cooperation“

Hans Weise **et al.**  
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# Reminder: AMICI WP3 Objectives

The **overall goal** of this Work Package is to

- *define the **conditions of the coordination of Technology Infrastructures (TI)** 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***
  - ***establish a co-innovation platform with industry.***
- Eligibility criteria for the participation and networking of TIs will be investigated in detail, in order to
  - **finally propose an appropriate coordination model.**

# Deliverables and Milestones

## Deliverables

**D3.1: Report defining the eligibility criteria for accessing to the core group of large TIs (M18).**

**D3.2: Report on the networking and coordination model (M30)**

**D3.3: Report about the proposed model of collaboration agreement (M30).**

## Milestones

**M3.1: First version of the report on eligibility criteria (M9)**

**M3.2: First version of the report on Networking and Coordination Model (M12)**

**M3.3: Collection and analysis of existing bi- or multilateral agreements between AMICI members and with other partners (M18)**

# WP3.1: Definition of eligibility criteria

(CEA, DESY, INFN, CNRS)

	<b>ELIGIBILITY CRITERIA FOR ACCESSING TO THE CORE GROUP OF LARGE TECHNOLOGY INFRASTRUCTURE</b>	Deliverable 3.1 Date: 30/09/2018
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## DELIVERABLE REPORT

### ELIGIBILITY CRITERIA FOR ACCESSING TO THE CORE GROUP OF LARGE TECHNOLOGY INFRASTRUCTURE DELIVERABLE: 3.1

Document identifier:	AMICI-D3.1-v3.0
Due date of deliverable:	End of Month 18 (June 2018)
Report release date:	30/09/2018
Work package:	WP3: Cooperation
Lead beneficiary:	CEA
Document status:	Final

#### Delivery Slip

	Name	Partner	Date
Authored by	O. Napoly [WP3.1 Task Leader]	CEA	20/09/2018
Reviewed by	H. Weise [WP3 Leader]	DESY	24/09/2018
Approved by	Steering Committee		26/09/2018

**Task WP3.1, under the lead of CEA Saclay, investigated, identified and appropriately summarized the eligibility criteria for the envisaged network.**

- Conditions of eligibility for an **accelerator or sc magnet European infrastructure** to be eligible in the core group of large European Technological Infrastructures were defined.
- The selection will be based on
  - **technical spread, accessibility, innovation and**
  - **industrial opportunity criteria**

# WP3.1: Definition of eligibility criteria

## 2. ELIGIBILITY PRINCIPLE

The eligibility key principle is therefore the capacity and the willingness of the new Member to integrate itself in an organization of Technological Facilities that coordinate their efforts and their development towards the construction of future research infrastructures, and that are willing to provide access to their technical platforms (TP) to other partners and to industries. Several criteria can be used to assess this principle:

- 1) the TF record and future plans of contributions to the construction of Research Infrastructures, in collaboration with the existing TI (cf. Table of TP Occupancy),
- 2) the TF record and future plans of collaboration with industry,
- 3) the accessibility of the Technological Facility to partner and industry collaborators,
- 4) the operability of the platforms in terms of financial and human resources,
- 5) the adaptability and versatility of the Technological Facility to evolving technical needs.


Another crucial aspect is the capability of the new Member to reinforce the technical spread and the expertise of the existing Technology Infrastructure and hence contribute to more

# WP3.1: Definition of eligibility criteria

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	<p><b>ELIGIBILITY CRITERIA FOR ACCESSING TO THE CORE GROUP OF LARGE TECHNOLOGY INFRASTRUCTURE</b></p>	<p>Deliverable: 3.1</p> <p>Date: 30/09/2018</p>
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efficient sharing of efforts at the European level. This can be assessed through the following criteria

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- 1) the complementarity of the Technological Facility within the TI
- 2) the strength of personnel and technical platforms in some critical areas

The fulfilment of these criteria should be itemized and verified in the Membership Accession Agreement, together with a detailed description of the technical platforms constituting its Technological Facility.

Terms of Association for University research units and industrial companies to the benefits of the work of the Technology Infrastructure core group, will be sought and decided in a second stage.

# WP3.2: Networking and coordination model (IFJ PAN, CEA, DESY, STFC)



REPORT ON THE NETWORKING AND  
COORDINATION MODEL

Deliverable D3.2

Date: 03/07/2019

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## DELIVERABLE REPORT

### REPORT ON THE NETWORKING AND COORDINATION MODEL DELIVERABLE: D3.2

Document identifier:	AMICI-D3.2
Due date of deliverable:	30/06/2019
Report release date:	03/07/2019
Work package:	WP3.2 Networking and Coordination Model
Lead beneficiary:	IFJ PAN
Document status:	Final

#### Delivery Slip

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

**Task WP3.2, under the lead of IFJ PAN, investigated, identified and appropriately summarized the networking and coordination for the envisaged network.**

**Results are summarized in the meanwhile approved Deliverable Report D3.2.**



# WP3.2: Networking and coordination model

## (IFJ PAN, CEA, DESY)

### 1. INTRODUCTION

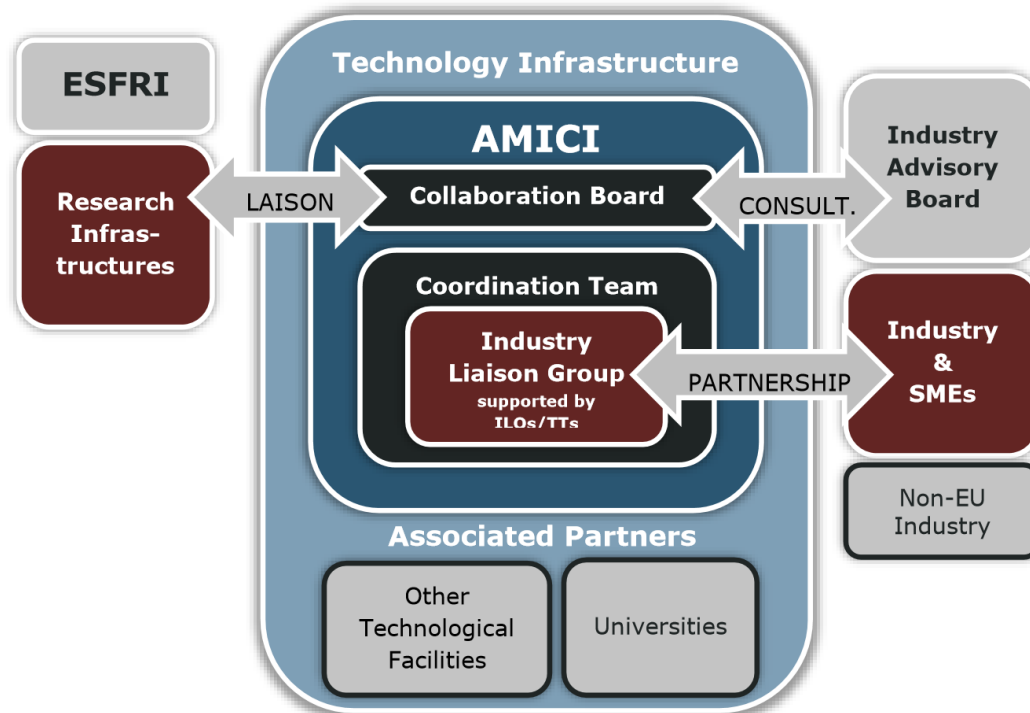
The overall goal of WP3 is to define the conditions for the Technological Facilities' (TFs) coordination in the area of accelerators and superconducting magnets in order to harmonize their operation and increase their efficiency, to adapt to the development of present and future European Research Infrastructures,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



# WP3.2: Networking and coordination model

## (IFJ PAN, CEA, DESY)



## 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, preferably 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.

Figure 1: Graph representing the coordination model.

# WP3.2: Networking and coordination model

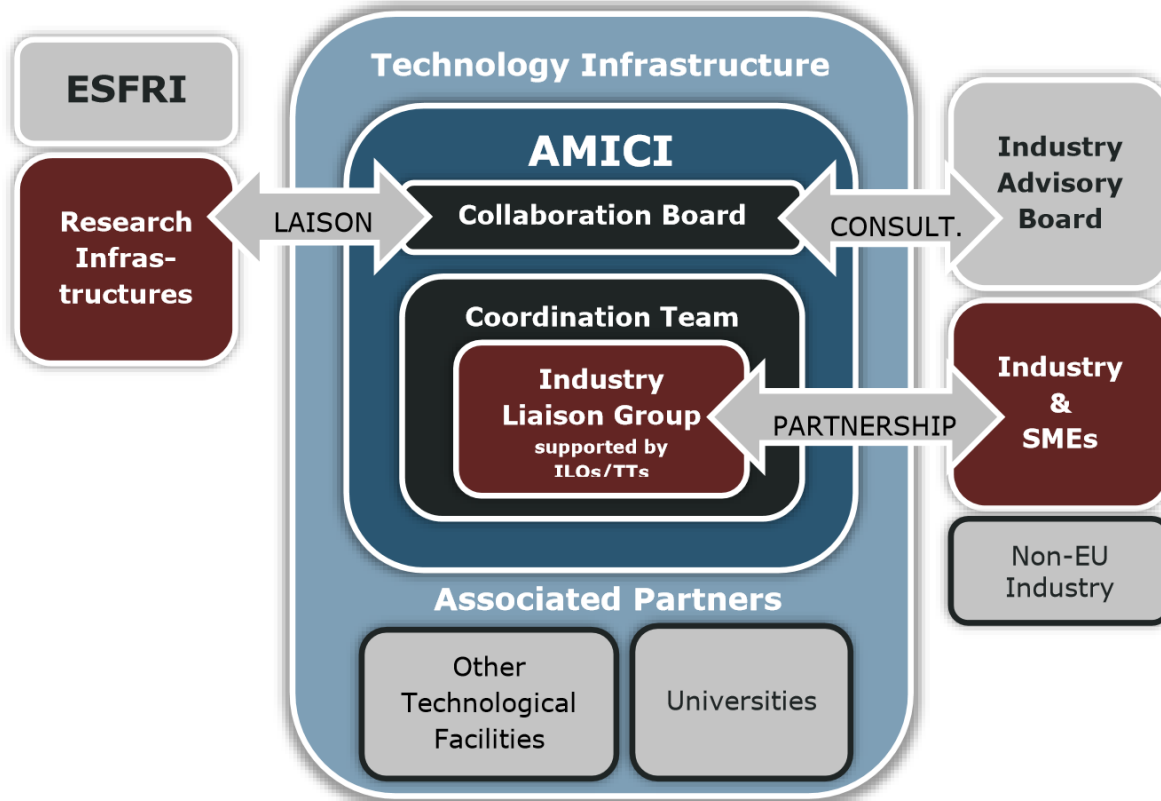


Figure 1: Graph representing the coordination model.

## WP3.2: Networking and coordination model

### 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 practiced with both, larger companies, but also Small and Medium Enterprises specialized on the often challenging key technologies covered by AMICI.

## WP3.2: Networking and coordination model

### 2. COORDINATION MODEL (cont.)

left hand side of plot

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.

## WP3.2: Networking and coordination model

### 2. COORDINATION MODEL (cont.)

right hand side of plot

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 Advisory Board** 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**.

## WP3.2: Networking and coordination model

### organization

### 2.1. The AMICI Collaboration

- The collaboration will consist of many entities.
- The H2020 AMICI project members will become the **Core Members** and form 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.

## WP3.2: Networking and coordination model

- 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 Associated Partners will create the **Collaboration Board**. 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.



## WP3.2: Networking and coordination model

- 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. **Industry Liaison Group as Coordination Team Sub-set.**
- 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 the Core Member.

## WP3.2: Networking and coordination model

### 2.2. TI environment and associated partnership 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.**

## WP3.2: Networking and coordination model

- 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 with selected information. The present AMICI-EU platform already fulfils this condition to some extent.

## WP3.2: Networking and coordination model

### 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.

## WP3.2: Networking and coordination model

### Expectations are:

- Providing better visibility.
- Providing easier access to Technological 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.

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

# WP3.3: MODEL OF COLLABORATION AGREEMENT (DESY)



REPORT ABOUT THE PROPOSED MODEL OF  
COLLABORATION AGREEMENT

Deliverable D3.3

Grant Agreement No: 731086

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## DELIVERABLE REPORT

REPORT ABOUT THE PROPOSED MODEL OF  
COLLABORATION AGREEMENT  
DELIVERABLE: D3.3

Document identifier:	AMICI-D3.3
Due date of deliverable:	30/06/2019
Report release date:	03/07/2019
Work package:	WP3.3 From cooperation to collaboration: elaboration of a collaboration agreement model
Lead beneficiary:	DESY
Document status:	FINAL

### Delivery Slip

	Name	Partner	Date
Authored by	Riko Wichmann	DESY	03/07/2019
Reviewed by	Hans Weise [WP3 Leader]	DESY	03/07/2019
Approved by	O. Napoly [AMICI coordinator]	CEA	10/07/2019

Task WP3.3, under the lead of DESY, investigated existing collaboration agreements MoUs etc. and finally proposed a template for a future AMICI Collaboration Agreement.

- Previous work on eligibility criteria and the above described coordination model were used.
- The respective content of deliverable reports are annexed to the template.

## WP3.3: Collaboration Agreement

### 2. DESCRIPTION AND WORK PERFORMED

All AMICI Core Group members base their actual cooperation or project driven collaboration on a **variety of written agreements or contracts**. Since most activities are temporarily funded, sustainability is not always guaranteed.

- As part of task 3.3 of the AMICI project a **detailed analysis of existing contracts and agreements** from a number of H2020 AMICI partners and others was performed to reach milestone M3.2 of this task. The types of contracts studied were:
  - Memoranda of Understanding (**MoUs**) or Collaboration Frameworks between non-commercial partners
  - **Contract for the non-commercial usage** of a technical platform
  - **Contract for a commercial usage** of a technical platform or the provision of services



## WP3.3: Collaboration Agreement

- In general, a **large overlap in the structure and topics** covered by the reviewed contracts was observed in both the different kind of contracts and between the same kind of contracts from different Core Group labs, respectively.
- It was concluded in the M3.2 report, that **it seems feasible to develop a proposal for a template** that could be acceptable for all Core Group members for collaboration among AMICI members or between AMICI member and other collaborators, respectively.

The **draft for such a Collaboration Agreement Contract was then developed** based on an example of a recent collaboration agreement available from the DESY legal department.

- This example was converted into a Collaboration Agreement draft of a future AMICI Collaboration representing the European Technology Infrastructure (TI) formed by a network of Technological Facilities (TF) in collaboration with industry.
- The draft takes into account the **findings of the work towards M3.2, discussions within the AMICI WP3 and during the annual meetings** in particular the Salerno meeting in January 2019.

## WP3.3: Collaboration Agreement

### 3. THE COLLABORATION AGREEMENT DRAFT

The proposed draft of a Collaboration Agreement provides the **legal, financial and organizational framework** among the Core Group members as main stakeholders of European research laboratories operating TPs dedicated to the development, testing and production of accelerator components and SC magnets.

- The aim of the collaboration is to **guarantee the long term life of the valuable TPs** within a network of TFs to form a European Technology Infrastructure for the **benefit of RIs and science industry**.
- The future AMICI collaboration has members of a so called Core Group who fulfill a set of **eligibility criteria** defined by task 3.1 of the AMICI project. These conditions are available as Annex 1 to the Collaboration Agreement and attached to this report. Associated partners not fulfilling those eligibility criteria but having strong links to members of the Core Group and being an important asset to the European Technology Infrastructure are represented in the *Collaboration*.

## WP3.3: Collaboration Agreement

- The conditions under which the Collaboration performs, its goals and the governing structure are described in the agreement draft. The latter rests on the Collaboration Board supported by a Coordination Team. The Terms of Reference of the Collaboration Board are defined in Annex 2 to the agreement draft and are attached to this report. **Annex 3** to the Collaboration Agreement **will list the members of the Collaboration Board**.

### Remark wrt. Industry

During the Salerno meeting it became clear from the discussion in the Advisory Group, reported to the Steering Committee of the H2020 project that the **industry does not see itself as an actual member** of the (future) AMICI Collaboration **but rather in the role of an advisory body**. This view was adapted by the **definition of an Industry Advisory Board** to be appointed by the Collaboration Board for strategic discussions.

### Industry Liaison Group as Coordination Team Sub-set.

## WP3.3: Collaboration Agreement

**The final deliverable of task 3.3 if the H2020 AMICI project is provided.** The report describes the main aspects of a proposed Collaboration Agreement and its supporting annexes to govern a future AMICI Collaboration of the European Technology Infrastructure on accelerators and magnets. The composition of the draft is based on a detailed study of existing contracts and frameworks between core members of the AMICI H2020 project and **was already reviewed by the project's Steering Committee.** This is an **indication that the proposed draft has a high probability to be accepted by potential Core Group members of a future AMICI Collaboration.** Even though the Collaboration Agreement is based on an agreement signed by DESY and therefore accepted by the DESY legal department, **it is recommended that it is checked as well by the legal departments of future signatories prior to the actual signature.**

The agreement draft including the annexes 1 (**Eligibility Criteria**), 2 (**Terms of Reference of the Collaboration Board**), 3 (**Members of the Collaboration Board**) and 4 (**Networking and Coordination Model**) are attached to this report.

# Summary

The defined tasks of WP3 were satisfactorily addressed.

All deliverables were accepted.

The base for future collaboration is defined.

We should clearly continue to learn from each other wrt.  
definition of collaboration and service agreements.

Today's Expression of Intent is a great opportunity!

THANK YOU!