

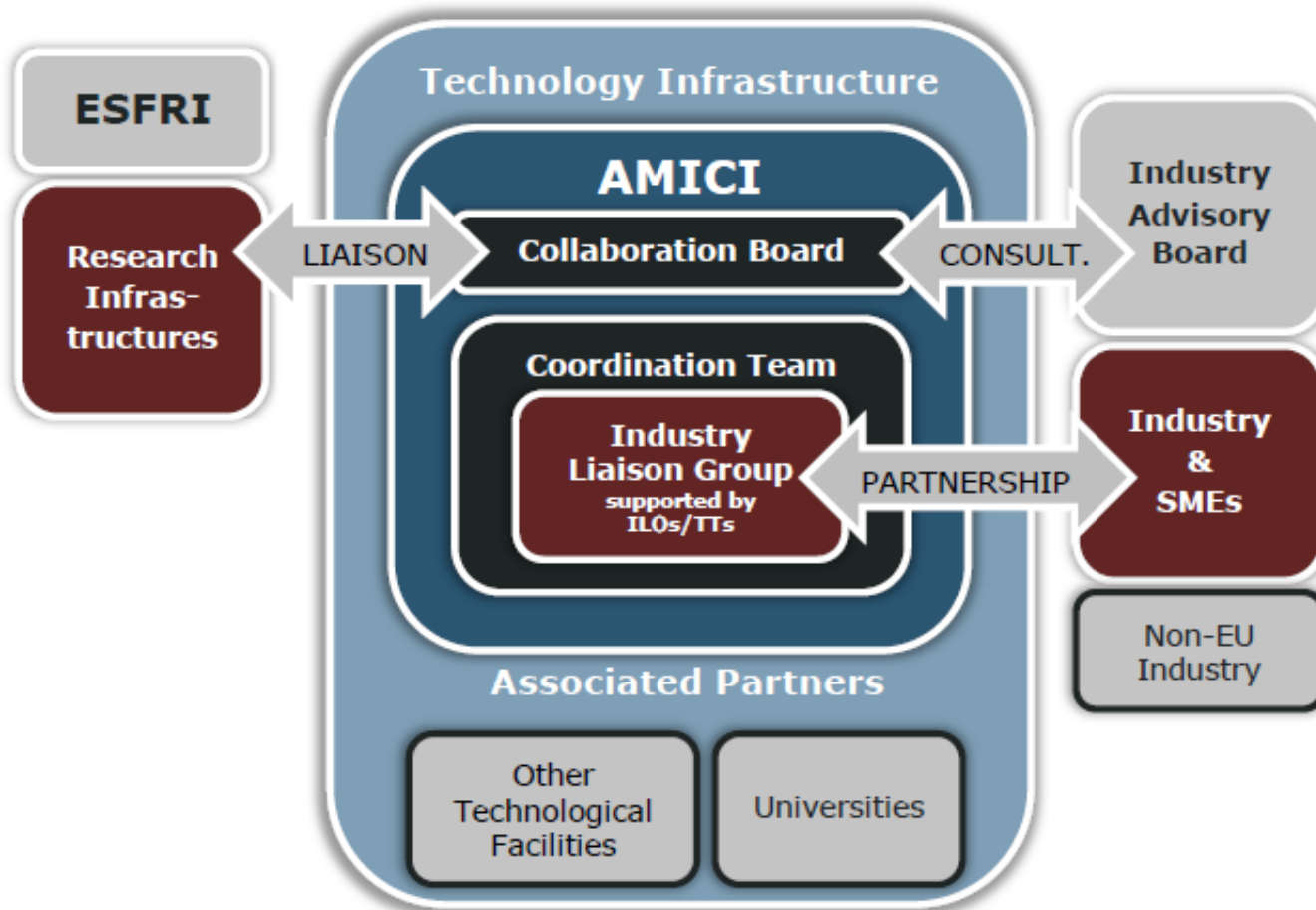
Plan for the future

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Research infrastructure





A Collaboration Agreement for the organization of the Core Group proposed in WP3



The Collaboration Agreement

- **Signature of an Expression of Intent to continue to be part of the AMICI collaboration at the end of the Final Meeting on 9 October 2019**
- Agreement between the Parties on the activities to be funded and on resources allocated to the Collaboration during the GA
- Draft reviewed by legal offices: end of 2019
- **Signature by the AMICI partners and additional ones beginning 2020**



Activities of the AMICI Collaboration

Some of the activities initiated under the current AMICI project should be continued and, if necessary, strengthened/adapted taking into account the feedback from the partners and from industry:

- Continuous updating of the global landscape of accelerators and SC magnet based RIs and installations for societal applications (e.g. medical applications)
- Continuous updating of the needed developments in the Key Technology Areas and the possible impact on the use of the TPs
- maintaining an up-to-date list of the TPs open to external partners with their characteristics and functionalities
- Pursuing the work on harmonization of standards specific to the domain
- Setting up the database for materials and components following the definition of its possible structure and content done in AMICI
- Setting up common training programs and promoting funding for student internships.



Activities of the AMICI Collaboration

Develop and optimize the capabilities of the TFs to support the construction of future accelerator-based RIs and ensure their sustainability:

- **define the roadmap for the strategic evolution** of the AMICI TFs, in view of the possible opportunities of engagement in new projects, in Europe, and outside Europe, in relation with other relevant bodies, with the goal of maximizing and optimizing (through possible sharing) the involvement of the TFs and their industrial partners,
- **provide services to TFs** for evaluating, during the preliminary design steps, to what extent and under which conditions new or upgraded TPs can be exploited also by Industry,
- **Identify adaptations** needed to satisfy the requests from Industry (based on the surveys conducted in AMICI to identify potential markets)
- **Explore the different possibilities (EU, national, regional) for financing** the necessary developments and upgrades of the TPs,
- **promote the possibilities that resources from the EC are earmarked** at regional level to support the development of TPs, while avoiding market distortion



Activities of the AMICI Collaboration

Services to industry:

- central information and contact point for industry and other external partners to access TPs with the aim to ensure the dissemination of information, analysis of requests and contacts to the appropriate TP
- promote the use of TPs by organizing regular dissemination initiatives
- simplify the use of the TPs by industry with the adoption of well defined procedures, regulations, IP management schemes, cost evaluation schemes, quality standards, etc. based as much as possible on common models adopted by the TI
- develop models for engaging industry in the low TRL phases of development still preserving the ownership by the TFs of the developed technologies
- provide services to investigate if industrial partners may be willing to take some responsibility in the design and/or implementation and/or operational phases of new TPs
- establish permanent relationships with associations of companies that are active in the Big Science field to implement some of the above actions



Activities of the AMICI Collaboration

The activities of the Collaboration will depend on the available resources. **Therefore the preceding list can be considered as the target to be achieved gradually as resources become available.**

The minimum requirement to start is **the creation of a central point of information and contact with specialized staff**, located in the coordinating institution, with the help of correspondents in each of the member institutions.

- ➔ Contributions from the institutions which will sign the Collaboration Agreement
- ➔ Proposal for a Strategy Action in the project to be submitted in response to the call INFRAINNOV-04-2020 for Innovation Pilot projects complemented by specific actions on training and relations with industry in other WPs



The ETIAM Strategy action proposal

ETIAM (**E**uropean **T**echnology **I**nfrastructure for **A**ccelerators and **M**agnets)

- **Overall goal:**

to support the establishment of an AMICI Collaboration and the start-up of the main activities to be carried out over a first period of two years.

- **Participants:**

Most of the AMICI partners + CIEMAT

- **Coordination:**

CEA, which is ready to also coordinate the Collaboration and assign dedicated staff



The ETIAM Strategy action proposal

- **Strategy for the development of the AMICI TI:** Identification of the necessary future developments/upgrades crucial in TPs either for the building of future RIs or for industrial needs in view of societal applications, and therefore maintaining European leadership in science and technology.
- **Organization and operation of a central information and contact point** for industry and other external partners to access TPs with aim to ensure the dissemination of information, analysis of requests and contacts to the appropriate TP.
- **Setting up common practices and rules for access to the AMICI TPs:** Analysis of the different procedures in different TFs corresponding to different cases and proposition of a set of standardized rules making the access simpler and faster for external partners, which could be adopted by the different TFs.
- **Promotion of the TPs:** Continuously updated website with clear information on TPs and the conditions of access, participating to relevant conferences, workshops and industry forums.

Distribution of the budget among the partners (for two years)

			CEA	INFN	UU	DESY	CNRS	STFC	CERN*	IFJ-PAN	KIT	PSI*	CIEMAT	TOTALS
A	Personnel and travel costs	k€	162	32	32	65	27	27	27	27	27	27	27	480
B	Material and other costs	k€												
C	Requested EC contribution	k€	100	20	20	41	17	17	17	17	17	17	17	300
	Funding rate F= $C/(1.25*(A+B))$		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

** Participation not yet confirmed*



Proposition for activities and budget

- Starting of the Collaboration based on the activities and budget described in ETIAM plus activities in the Training and in the Relations with Industry WPs of the Innovation Pilot proposal
- **Contributions of the partners for 2020**
 - central coordination: 0.5 FTE
 - communication and dissemination, website, promotion of TPs: 0.5 FTE + external resources, technical support
 - relations with industry including exploitation requests from industry: 0.5 FTE
 - Setting up common practices and rules for services to industry and external partners: 0.5 FTE + TTOs
 - Strategy for the development of the AMICI TI: all partners (in relation with other relevant bodies)
 - Organization of events: 0.2 FTE + in-kind local contributions
 - Travel

The undersigned have reached an understanding - according to which they hereby state their intent to continue to be part of the AMICI Collaboration, which aims at establishing a collaboration between the main stakeholders of European research laboratories operating Technical Platforms dedicated to the development, testing and production of accelerator components and superconducting magnets, forming a European Technology Infrastructure for the benefit of Research Infrastructures and science industry.

The terms and conditions of the AMICI Collaboration are detailed in the proposed Collaboration Agreement, which has been passed on to all the Parties for review.

The undersigned hereby express their genuine interest in reaching the signature of the Collaboration Agreement, provided that the text is consistent with all the Parties' expectations.

The undersigned acknowledge that on 1 January 2020, the Collaboration Agreement will enter into force between all the Parties having signed it by that date.

Signed in Paris-Saclay, on October 9, 2019