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AMICI

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

DELIVERABLE REPORT

MINUTES FROM THE SECOND ANNUAL AND GENERAL ASSEMBLY MEETINGS

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MINUTES FROM THE SECOND ANNUAL AND GENERAL ASSEMBLY MEETINGS

Deliverable: 1.8

Date: 5 February 2019

Deliverable:

Minutes from the Second Annual and General Assembly meetings

Executive summary:

The AMICI project held its Second Annual Meeting on 23rd January 2019 in Salerno, at the premises of the Salerno University. General status of the AMICI project and presentations of the five Work Packages progress reports were given from 9:00 until 16:00. The meeting was followed by a visit of NAFASSY, an INFN technological facility at the University of Salerno. The open meeting gathered about 50 participants representing all the AMICI beneficiary institutions and European industries.

The progress reports of the Second Annual Meeting were prepared, on 22nd January, through work package meetings with the AMICI task contributors.

Besides, the meeting of the AMICI Advisory Group was held on the 24th January with 7 of its 14 members who could give recommendations on specific issues. The meeting of the General Assembly representing the 10 beneficiaries took place on the same day and ended the Second Annual Meeting.



1 INTRODUCTION

As foreseen by the Grant Agreement, the AMICI project held its Second Annual meeting on 23rd January 2019, at the premises of the Salerno University. The progress reports of this meeting were prepared, on 22nd January, through work package meetings with the AMICI task contributors. The goal of the Second Annual meeting was to report on the progress of each Work Packages, to advance on the tasks and to define a work plan for the end of the project. This was also the opportunity to obtain recommendations from the Advisory Group and to hold the meeting of the General Assembly on the following day. All details from the Second Annual meeting, including timetable, presentations, participants and satellite meetings can be consulted on the public Web-based [Indico](#) site of this event.

2 AGENDA

Wednesday 23rd January 2019

08:15 - 08:45: Transfer from Lloyd's Baia Hotel to University of Salerno

08:45 - 09:00: Welcome address

09:00 - 09:30: Introduction to AMICI Second Annual Meeting

Speaker: Olivier NAPOLY (CEA)

9:30 - 10:15: Presentation of Work Package 4 "Innovation"

10:15 - 10:30: Discussions

Speaker: Anthony GLEESON (STFC)

10:30 - 11:00: Coffee break

11:00 - 11:45: Presentation of Work Package 5 "Industrialization"

11:45 - 12:00: Discussions

Speaker: Pasquale FABBRICATORE (INFN)

12:00 - 12:45: Presentation of Work Package 3 "Cooperation"

12:45 - 13:00: Discussions

Speaker: Hans WEISE (DESY)

13:00 - 14:00: Lunch

14:00 - 14:45: Presentation of Work Package 2 "Strategy"

14:45 - 15:00: Discussions

Speakers: Walid KAABI (CNRS) and Tord EKELÖF (UU)

15:00 - 15:30: Presentation of Work Package 1 "Management"

15:30 - 15:45: Discussions

Speaker: Sylvie LERAY (CEA)

15:45 - 16:15: Coffee break

16:15 - 18:00: NAFASSY visit

18:00 - 18:20: Transfer to Lloyd's Baia Hotel

20:00 - 22:00: Social Dinner at Lloyd's Baia Hotel

Thursday 24th January 2019

08:30 - 10:00: Meeting of the Advisory Group and Steering Committee

10:00 - 10:30: *Coffee Break*

10:30 - 11:30 : General Assembly Meeting

10:30 - 11:30 : Closed meeting of the Advisory Group

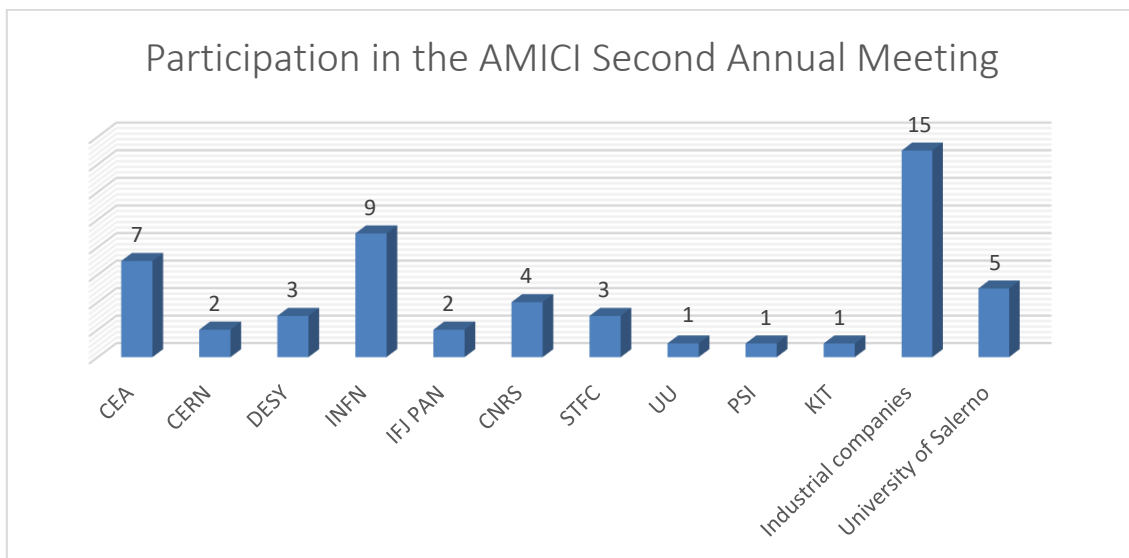
11:30 - 12:30: General Assembly, including the Report from the Chair of the Advisory Group

12:30 - 13:30: *Lunch*

13:30 - 16:30: General Assembly extraordinary meeting

3 GLOBAL PARTICIPATION

In total, the AMICI Second Annual Meeting gathered 53 participants. The distribution of the participants is as follow:



4 MINUTES FROM THE MEETINGS

4.1. AMICI SECOND ANNUAL MEETING

The AMICI Second Annual Meeting took place on 23rd January from 8:30 to 18:30. Chaired by each WP leaders, the working sessions gathered about 50 AMICI collaborators from the 10 Institutes in order to advance on the tasks defined in the Grant Agreement and to define a work plan for the end of the project. The progress reports of the Second Annual Meeting were prepared, on 22nd January, through work package meetings with the AMICI task contributors.

The conclusions on the five sessions dedicated to each Work Packages are detailed below. The presentations from these sessions are available on the [Indico](#) site.

WP1 - Management, coordination and dissemination

Progress achieved:



- The AMICI Mid-Term Report has been submitted with one month delay and has been approved by EC.
- Following a remark of the EC Officer about the AMICI Mid-Term Report, the AMICI Website has been updated. It contains a cartography which better illustrate the connection between Research Infrastructures – Technology Infrastructure – European Science Industry.
- The same cartographic tool will be used by WP2.2 ‘Global Landscape’ to illustrate the technology components of future Accelerator and SC Magnet projects, and the possible connection to Technology Infrastructure.

Focus for the next months:

- Extend the H2020 AMICI project duration by 3-4 months, past June 2019, pending the support of the General Assembly and the approval from EC.
- Hold the ‘European Forum on accelerators and SC magnets Technology Infrastructure’ at Brussels in the summer 2019 to describe the outcome of the AMICI Tasks to the EC and the European Science Industry.
- Hold the 3rd AMICI Annual Meeting in the fall 2019.

Discussions with participants:

- S. Leray presented the possible strategies for the future of AMICI
- The possible project extension has been discussed and supported by the participants. S. Leray consulted task leaders in order to estimate the time needed to finish their tasks and complete the deliverables.

Here is the recap table of the WP1 tasks, including the expected delay that will require the project extension:

		Due	Achieved	Expected
MS1	Installation of the Advisory Group	M1	M1	
MS2	Website software ready	M2	M2	
MS3	Industry days and consultation of industry representatives completed	M3	M3	
MS4	Implementation of deliverable database and tools for the follow up of the milestones progress	M4	M5	
MS5	1st GA and Annual project meetings	M14	M14	
MS6	2nd GA and Annual project meetings	M23		M25
MS7	3rd GA and Annual project meetings	M29		M33
D1.1	Minutes of the Kick-off Meeting	M2	M2	
D1.2	Definition of the participation of industry	M4	M4	
D1.3	Public website with searchable databases and communication tools	M11	M11	
D1.4	Minutes from the 1st annual and GA meetings	M15	M15	
D1.5	Progress and financial 1st reports	M21	M21	
D1.6	European Forum on accelerators and SC magnets Technological Infrastructures	M24		M30
D1.7	Report on dissemination and data management	M30		M33
D1.8	Minutes from the 2nd annual and GA meetings	M24		M26
D1.9	Minutes from the 3rd annual and GA meetings	M30		M33
D1.10	Progress and financial 2nd reports	M30		M33

WP2 – Strategy

Progress achieved:

- A set of 8 Key Technology Areas (KTAs) have been identified, based on the criteria presented in Uppsala. The drafting of the Deliverable 2.1 started. This draft document describes the needs of the KTAs and their potential for progress in performance and/or cost savings.
- The conditions prevailing to the sustainability of the Technological Facilities at the ten AMICI Institutes have been made. And the significant differences between: 1- Institutes

hosting/operating EU research infrastructures, 2- Institutes hosting national accelerator facilities, 3- Institutes providing components and services to RIs have been pointed out.

Focus for the next months:

- Describe the technological roadmaps of the KTAs and characterize the adequacy or inadequacy of the current TI (D2.2).
- Formulate propositions to guarantee the long-term sustainability of TI based on e.g.: 1 – improving the technical adequacy between external needs vs. services of technical platforms, 2 – improving their availability/usability, 3 – demonstrating the cost/timing impact of TI vs green field based construction of RIs (D2.3).

Here is the recap table of the WP2 tasks:

		Due	Achieved	Expected
MS8	Updating of KTA	M12	M12	
MS9	Collection of the scientific Roadmaps	M14	M14	
MS10	Intermediate report on sustainability	M21	M21	
D2.1	Report on Key Technological Areas survey and prospective outlook	M24		M27
D2.2	Report on the Technological Roadmaps for the different KTA	M27		M29
D2.3	Report on propositions to guarantee the long term sustainability of TIs	M30		M30

WP3 - Cooperation

Progress achieved:

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

Focus for the next months:

- 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.

Discussions with participants:

- The involvement of industrial companies remains to be clarified. The central question is to define the proper level of partnership with AMICI's core group that should be offered to industrial companies. A specific input on that question was expected from the Advisory Group members.
- A. Hutton expressed the worry that if EU companies receive financial support from the EC, then the American lawyers could consider this as an unfair competition. So, the legal issue is a delicate point that have to be considered not only at the European level but worldwide.
- Some participants suggested to consider the financial supports offered at the nation and regional level.

Here is the recap table of the WP3 tasks.

		Due	Achieved	Expected
MS11	First version of the report on eligibility criteria	M9	M9	
MS12	First version of the report on Networking and Coordination Model	M16	M16	
MS13	Collection and analysis of existing bi- or multilateral agreements between AMICI members	M21	M21	
D3.1	Report defining the eligibility criteria for accessing to the core group of large Tis	M21	M21	
D3.2	Report on the networking and coordination model	M30		M30
D3.3	Report about the proposed model of collaboration agreement	M30		M30



WP4 - Innovation

Progress achieved:

- The responses from the 3 market surveys (accelerator components/SC magnets/good practices and barriers) have been collected.
- However, input from the major European SC Magnet manufacturers is missing. To complement the missing data, telephone interviews will be carried out.

Focus for the next months:

- Synthesize the outcome of the market surveys and draw recommendations for improving the Innovation potential of European Science Industry.
- Further refine AMICI offering to Industry.

Discussions with participants:

- The complementarity of the WP4 and the WP5 has been highlighted. Therefore, it is important to work closely with both WPs.
- The IP protection between Industry and Academia has been mentioned. While the IP protection issue can only be handled case by case, some standard models will be proposed within the AMICI project.

Here is the recap table of the WP4 tasks, including the expected delay that will require the project extension.

		Due	Achieved	Expected
MS14	3rd Party selected for survey on accelerator technologies	M15	M15	
MS15	Interim report on survey results in the field of SC Magnet Technologies	M15	M15	
MS16	Initial analysis of acquired data on good practices and identification of actions	M26		M26
MS17	Survey on accelerator technologies received from 3rd party	M27		M27
D4.1	Report on accelerator market study	M30		M30
D4.2	Report on SC magnet market study	M30		M33
D4.3	Report on best practice collaboration between industry and technology	M30		M30

WP5 - Industrialization

Progress achieved:

- Training and development of material database were selected as services provided by the TI to European Science Industry.
- Intellectual Property is identified as a hard point.
- WP5 coordinates and contributes to a multi-national working group at the CERN to draft a European standard on safety of cryogenic equipment.

Focus for the next months:

- Set the basis of a database on material properties (D5.1).
- Catalog the potential training and apprenticeship programs in the Technology Infrastructure (D5.2, D5.4).
- Formulate the conditions for prototyping in Industry (D5.5).

Here is the recap table of the WP5 tasks.

		Due	Achieved	Expected
MS18	List of safety scenarios in liquid helium cryostats	M12	M12	
MS19	Preliminary report on the required conditions for apprenticeships program in TI	M24	M25	



MS20	Preliminary report on the required conditions for apprenticeships program in industries	M24	M25	
MS21	Preliminary conclusions of the working group on prototyping issues	M24	M25	
D5.1	Definition of the possible structure and content of a database for materials and components	M26		M30
D5.2	Final report on the required conditions for apprenticeships program in TI	M28		M30
D5.3	General harmonized guidelines for the safety of cryogenic equipment	M28		M30
D5.4	Final report on the required conditions for apprenticeships program in industries	M30		M30
D5.5	Final report on conditions for developing prototypes in industry	M30		M30

4.2. ADVISORY GROUP MEETING

The AMICI Advisory Group (AG) held its third meeting on the 24th January 2019, from 8:30 to 10:00. Out of 14 AG members 7 members were present at this meeting chaired by Andrew HUTTON.

Present: Michael GEHRING from Babcock Noell GmbH, Andrew HUTTON (Chair) from Jefferson National Laboratory, Jean-Luc LANCELOT from SigmaPhi, Michael PEINIGER from Research Instruments GmbH, Serge SIERRA from Thales, Josef TROXLER from Ampegon, Akira YAMAMOTO from KEK

Minutes:

Discussions started with a joint session with the Steering Committee. During his introductory presentation, Olivier Napoly had asked five questions for the Advisory Group. These questions were presented and discussed again to the joint group, allowing members of the Advisory Group to obtain clarification where needed. The Advisory Group then went into closed session to debate each question, reaching consensus in most cases.

A preliminary version of these conclusions was presented to the General Assembly immediately after the closed session. The presentation supporting these conclusions is available on the [Indico](#) site. The written version was circulated among the entire Advisory Group (not just those in attendance) to include their comments. The five questions asked to the AG members are detailed below.

- 1) The AG recognized the virtue the model of the Spanish ‘Ineustar’ industry association, but expressed its unwillingness to extend it to the more mature European Science Industry,
- 2) Regarding the 8 Key Technology Areas designated within the WP2, the AG had comments on two areas: a. SRF Structures should be expanded to include all elements of the cryomodules. b. System integration should be added or should be the subject of a separate list.
- 3) WP3 drafted a Collaboration Agreement model for its core group members, supporting a set of ambitious goals. The AG requested more time to evaluate these goals and how industry partnership and liaising should be organized.
- 4) The Industrialization-related activities aim at keeping European Science Industry at the forefront of the international competition in view of the construction of future research instruments in Europe and elsewhere. The AG members were asked if some other crucial aspect of Industrialization of Research Infrastructures were not scrutinized by WP5. They expressed the wish for industry to be involved in the prototyping phase as early as possible.
- 5) To reinforce the case for the Technology Infrastructure, the AG members stressed the importance to demonstrate the central and irreplaceable role of the Technology Infrastructure for the European Research Infrastructures and its benefit to European Science Industry. These two points should be demonstrated through examples provided by Research Institutes and Industry.

Regarding the European Forum on accelerator and magnet Technology Infrastructure gathering scientists and industry that will be held in Brussels in September the AG members will be consulted in the coming months to participate in its organization.

4.3. GENERAL ASSEMBLY MEETING

The General Assembly meetings was held on 24th January 2019 in Salerno from 10:30 to 12:30. This meeting aimed at informing participants about the progress of the project.

General Assembly Members: BIARROTTE Jean-Luc (CNRS), BORDRY Frederick (CERN), EKELOF Tord (UU), ETIENVRE Anne-Isabelle represented by Nicolas ALAMANOS (CEA), FACIANO Speranza represented by MORANDIN Mauro (INFN), GROHMANN Steffen (KIT), LESIAK Tadeusz (IFJ PAN), RIVKIN Leonid (PSI), SMITH Susan represented by Peter Macintosh (STFC)

Excused: WILLNER Arik (DESY)

Steering Committee Members: BOCIAN Dariusz (IFJ PAN), EKELOF Tord (UU), FABBRICATORE Pasquale (INFN), GARVEY Terence (PSI), GLEESON Anthony (STFC), GROHMANN Steffen (KIT), KAABI Walid (CNRS), LERAY Sylvie (CEA), NAPOLY Olivier (CEA), VRETENAR Maurizio (CERN), HANS WEISE (DESY), YILDIRIM Arifé (CEA)

Minutes:

1. Status of the AMICI project and Second Annual Meeting (O. Napoly)

O. Napoly reported the main progress performed within the second year of the project in the different Work Packages and highlighted the points to focus on for the final period of the project. The report of each WP progress is available in O. Napoly's [presentation](#). Here are the key issues mentioned during this meeting:

European Forum – If an extension period were agreed by the EC, the ‘European Forum on accelerators and SC magnets Technology Infrastructure’ would take place at Brussels in September 2019.

Some reflections about the global concept of the event are ongoing. The actions related to the logistics will be taken after the confirmation of the extension. The date of the Forum will be chosen taking into account the other events related to accelerators and magnets.

Third annual meeting – If the extension period is agreed, the 3rd AMICI Annual Meeting would take place in the fall 2019.

Collaboration Agreement model – The WP3 contributors will share the draft of the Collaboration Agreement model with the General Assembly members in the following weeks. The terms of University and Industry partnerships with the core group remain to be clarified according to the Advisory Board's feedbacks.

2. Proposal for 4 month extension

The project needs an additional time to refine the remaining deliverables involving essential subjects such as KTA, roadmaps, market survey, database, and apprenticeship program.

The Steering Committee members agree that the extension of AMICI project would not imply extra funds from the European Commission. It would not include additional work or additional deliverables and it would not lead to a new reporting period.

After discussion, it is proposed to ask for a 4 month extension. The proposal is unanimously approved by the GA members.



3. Status of the AMICI administrative matters (S. Leray)

Budget and expenses – The Excel table summarizing the expenses of the AMICI beneficiaries for the period until 30 June 2018 will be sent to the General Assembly members. Checkpoints are planned to review the expenses until 31 December and until the end of June.

4. Report from the Advisory Group Chair (A. Hutton)

See the report from the Advisory Group Chair above.

5. Any Other Business

Nothing to add.

5 CONCLUSION

The AMICI Second Annual meeting reached its goal to enable the project contributors and industrial partners advancing in the tasks, with active collaboration and forward vision. Indeed, several topics have been addressed regarding each of the five Work Packages not only through the Second Annual Meeting but also during the AMICI workshops and Advisory Group meeting.

The Second Annual Meeting was the opportunity to report the progress achieved in each WP and to define the priority actions for the following months. These actions include (WP2) the finalization of the technological roadmap and the report on the sustainability, (WP3) the finalization of the Collaboration Agreement by formulating the terms of University and Industry partnerships, (WP4) the synthetization of the outcome from the three market surveys, and (WP5) the setting of the database basis and the training/apprenticeship programs. When it comes to (WP1) the management and coordination of the project, in the following months, a particular attention will be directed to the project extension, the European Forum and the Third Annual Meeting.

The Advisory Group and General Assembly meetings were also fruitful. The Advisory Group has been consulted in various issues regarding the progress of specific tasks. Besides, after the report of the project progress, the General Assembly approved the working plan and the distribution of funding.

Finally, this event was also the opportunity to visit the University of Salerno and the INFN technological facility, NAFASSY.