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PARTICIPATING EUROPEAN RESEARCH INSTITUTES

Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA, France)	European organization for nuclear research (CERN, Switzerland)
Stiftung Deutsche Elektronen-Synchrotron (DESY, Germany)	Istituto Nazionale di Fisica Nucleare (INFN, Italy)
The Henryk Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences (IFJ PAN, Poland)	Centre National de la Recherche Scientifique (CNRS, France)
Science and Technology Facilities Council (STFC, UK)	Uppsala Universitet (UU, Sweden)
Paul Scherrer Institut (PSI, Switzerland)	Karlsruher Institut Fuer Technologie (KIT, Germany)

ACCELERATOR AND MAGNET INFRASTRUCTURE FOR COOPERATION AND INNOVATION

THE AMICI HORIZON 2020 PROJECT AIMS TO:

FOSTER INNOVATION
in the field of particle accelerators and superconducting magnets

FACILITATE INDUSTRIALISATION
by creating an open and easily accessible Technology Infrastructure for European Industry to use

ENSURE SUSTAINABILITY
of the Technological Facilities

Grant agreement # 731086

STRATEGY

Identify the strategic elements necessary to successfully implement a sustainable cluster of Technological Facilities in partnership with industry.

Activities: identify Key Technological Areas; collect the roadmaps of the different scientific domains using accelerators and superconducting magnets worldwide.
Benefits for European Industry: get a clear view of the strategic roadmaps; be in a strong position to compete on the global market.

INNOVATION

Promote the potential applications of mature technologies to European Industry

Activities: assess the current capability and future potential of a broad range of European commercial organisations to innovate; identify domains of societal applications and potential markets beyond Research Infrastructures; analyse good practices and barriers to effective engagement of the TFs.
Benefits for European Industry: overcome technology development barriers; further develop commercial opportunities within the research institutes and wider societal markets.

COOPERATION

Define the conditions of the coordination of Technological Facilities (TFs).

Activities: define the eligibility criteria for the participation in the Technology Infrastructure; develop a coordination model for the use of eligible TFs; standardise collaboration agreements.
Benefits for European Industry: profit from the information exchange; definition of standardised procedures and access to databases, which should allow cost reduction in the long term.

EXAMPLES OF TECHNICAL PLATFORMS AVAILABLE TO EUROPEAN INDUSTRY

Test beam facilities

Test stations for superconducting magnets and large size cryogenic components

Test stations under high magnetic field

Characterisation stations at cryogenic temperature

Test stations for RF devices and superconducting cavities

Chemistry, clean room and assembly facilities for superconducting cavities and cryomodules

Characterisation and measurement laboratories

Superconducting magnet winding and impregnation laboratories

INDUSTRIALISATION

Share with industry the needs, knowledge, techniques and quality standards of the research institutes.

Activities: define the frameworks for apprenticeship programs; set the basis for common knowledge and use among TFs and related laboratories and industries; standardise cryogenic safety procedures; define the requirements and conditions for developing prototypes within industry.
Benefits for European Industry: get a simplified and supported access to the most adequate platforms; be at the forefront of the international competition, in terms of technology, quality and costs.