

Improving the sustainability of the European Magnetic Field Laboratory / Poprawa zrównoważonego rozwoju Europejskiego Laboratorium Pól Magnetycznych (ISABEL)

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One of the great challenges of society is innovation through the development of new and advanced materials. Such tailored materials are needed in all key-technological areas, from renewable energy concepts, through next-generation data storage to biocompatible materials for medical applications and many of these future materials will be synthesized on a nano-scale. In order to reach these goals, state-of-the-art analytical tools are needed. High magnetic fields are one of the most powerful tools available to scientists for the study, modification and control of states of matter, and in order to compete on the global scale, Europe needs state-of-the-art high magnetic field facilities which provide the highest possible fields (both continuous and pulsed) for its many active and world-leading researchers.

The European Magnetic Field Laboratory (EMFL) is a legal entity in the form of an AISBL under Belgian law. Its current members are CNRS, HZDR and RU as facility operators and the University of Nottingham, the latter on behalf of the UK user community, funded through an EPSRC Mid-scale Facility Grant. It represents all high-field infrastructures in Europe and constitutes a distributed research infrastructure of global impact and importance, which was added to the ESRFI Landmark list in 2016.

The ISABEL project aims to strengthen the long-term sustainability of the EMFL through the realization of three objectives :

- strengthening the EMFL structure by enlarging its membership and by improving several organisational aspects, such as data management, outreach and access procedures.
- strengthening the socio-economic impact of the EMFL, by bridging the gap with industry.
- strengthening of the role of high magnetic field research in Europe.