



# R&D infrastructure in Europe: Aligning investments and expanding the user base

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# Research Infrastructures in Horizon 2020

1. Developing European Research Infrastructures for 2020 and beyond
  - Developing new world-class RIs
  - Integrating and opening national and regional RIs of European Interest
  - Development, deployment and operation of ICT based e-Infrastructures
2. Fostering the innovation potential of RIs and their human resources
3. Reinforcing European RI policy and international cooperation

## How?

- Development of a regional strategy Roadmap – ESFRI Roadmap (last edition 2018)
- Charter for Access to Research Infrastructures
- 20 European Research Infrastructure Consortia established so far - Regulation on ERICs
- Creating/ supporting international fora for policy development (GSO on Global Research Infrastructures and ICRI conference)
- Implementation of a Work Programme (Horizon2020) with a strong international outreach component



## Some Examples

**The European Spallation Source**: the next-generation neutron source one of the top priorities of the European Strategy Forum on Research Infrastructures (ESFRI) Roadmap. Built in Sweden with more than 40 European partner institutions, and more than 130 collaborating institutions worldwide under the in-kind model (550 million Euro so far) including Spallation Neutron Source (SNS) in the US

**Ocean Data Operability Platform (ODIP-2)**: organisations from Europe, USA and Australia, that develop, operate and manage the large infrastructures in their regions for marine & ocean data management

Objective: to foster the development of common standards and develop prototypes to evaluate and test selected potential standards and interoperability solutions.

## Europe is aiming to:

- Open access to research infrastructures in individual Member States to all European researchers
- Avoid duplication of efforts and to coordinate and rationalise the use of these infrastructures
- Trigger the exchange of best practice, develop interoperability of facilities and resources, develop the training of the next generation of researchers
- Integrate & connect national research communities and increase the overall quality of the research and innovation