



European  
Commission

# **Horizon 2020**

## **Research Infrastructures offering free Access with EU support**

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*Research and  
Innovation*

# Research Infrastructures offering free Access with EU support

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## **Introduction**

European researchers need effective and convenient access to the best research infrastructures in order to conduct research for the advancement of knowledge and technology. Horizon 2020 Research Infrastructures actions aim to bring together, integrate on European scale, and open up key national and regional research infrastructures to all European researchers, from both academia and industry, ensuring their optimal use and joint development.

This document provides a list of Research Infrastructures projects that offer free access: either transnational access, based on call for proposals, or virtual access (online services). These opportunities are publicised widely by each individual project, in particular on their web site.

To facilitate the search, projects are listed by main scientific domain.

## Research Infrastructures offering free Access with EU support

### ENVIRONMENTAL and EARTH SCIENCES

Type/Area	Infrastructure
Ground-based stations	Aerosols, Clouds, and Trace gases Research InfraStructure ( <b>ACTRIS-2</b> )
Simulation chambers	Integration of European Simulation Chambers for Investigating Atmospheric Processes – Towards 2020 and beyond ( <b>EUROCHAMP-2020</b> )
Terrestrial sites	European Long-Term Ecosystem and socio-ecological Research Infrastructure ( <b>eLTER</b> )
Terrestrial stations	International Network for Terrestrial Research and Monitoring in the Arctic ( <b>INTERACT</b> )
Mesocosms	Network of Leading European AQUATIC MesoCOSM Facilities Connecting Mountains to Oceans from the Arctic to the Mediterranean ( <b>AQUACOSM</b> )
Hydraulic experimental facilities	HYDRALAB+ Adapting to climate change ( <b>HYDRALAB-PLUS</b> )
Coastal observatories	Joint European Research Infrastructure network for Coastal Observatory – Novel European eXpertise for coastal observatories ( <b>JERICO-NEXT</b> )
Deep sea observatories	Implementation of the Strategy to Ensure the EMSO ERIC's Long-term Sustainability ( <b>EMSO-Link</b> )
Marine data centres	SeaDataCloud - Further developing the pan-European infrastructure for marine and ocean data management ( <b>SeaDataCloud</b> )

### BIOLOGICAL AND MEDICAL SCIENCES

Type/Area	Infrastructure
Virus Archive	European Virus Archive goes global ( <b>EVAg</b> )
Insect repositories	Research Infrastructures for the control of vector-borne diseases ( <b>INFRAVEC2</b> )
Structural biology facilities	Infrastructure for NMR, EM and X-ray crystallography for translational research ( <b>iNEXT</b> )
Nanomedicine Characterization Laboratory	European Nanomedicine Characterization Laboratory ( <b>EU-NCL</b> )
Aquaculture research facility	AQUAculture infrastructures for EXCELlence in European fish research towards 2020 ( <b>AQUAEXCEL2020</b> )

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### ENERGY

Type/Area	Infrastructure
Electrical laboratories	European Research Infrastructure supporting Smart Grid Systems Technology Development, Validation and Roll Out ( <b>ERIGrid</b> )
Offshore renewable energy	Marine Renewable Infrastructure Network for Enhancing Technologies 2 ( <b>MARINET2</b> )

### MATERIAL SCIENCES AND ANALYTICAL FACILITIES

Type/Area	Infrastructure
Micro and nanotechnology facilities	Nanoscience Foundries And Fine Analysis – Europe ( <b>NFFA-Europe</b> )
Micro and nanoelectronics labs	Access to European Nanoelectronics Network ( <b>ASCENT</b> )
Lasers for Laser Science	The Integrated Initiative of European Laser Research Infrastructures ( <b>LASERLAB-EUROPE</b> )

### PHYSICAL SCIENCES

Type/Area	Infrastructure
Particle Detectors	Advanced European Infrastructures for Detectors at Accelerators ( <b>AIDA-2020</b> )
Accelerators resources	Accelerator Research and Innovation for European Science and Society ( <b>ARIES</b> )
Nuclear physics facilities	European Nuclear Science and Application Research 2 ( <b>ENSAR2</b> )
Radio astronomy facilities	Advanced Radio Astronomy in Europe ( <b>RadioNet</b> )
Optical Infrared facilities	Optical Infrared Coordination Network for Astronomy ( <b>OPTICON</b> )
High-energy astrophysics facilities	Integrated Activities for the High Energy Astrophysics Domain ( <b>AHEAD</b> )
Planetary research facilities	EUROPLANET 2020 Research Infrastructure ( <b>EPN2020-RI</b> )

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### SOCIAL SCIENCE AND HUMANITIES

Type/Area	Infrastructure
Cultural Heritage Facilities	Integrated Platform for the European Research Infrastructure ON Cultural Heritage ( <b>IPERION CH</b> )

### MATHEMATICS AND ICT

Type/Area	Infrastructure
Data infrastructures	SoBigData Research Infrastructure ( <b>SoBigData</b> )