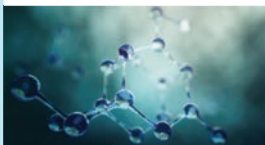




European Research
Infrastructure Consortia - ERICs*:
Enabling excellent science in
service of society



www.eric-forum.eu

@ERIC_forum

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About Research Infrastructures

'Research Infrastructure*' means facilities, resources and related services that are used by the scientific community to conduct top-level research in their respective fields and covers major scientific equipment or sets of instruments; knowledge-based resources such as collections, archives or structures for scientific information; enabling Information and Communications Technology-based infrastructures such as Grid, computing, software and communication, or any other entity of a unique nature essential to achieve excellence in research. Such infrastructures may be 'single- sited' or 'distributed' (an organised network of resources).

European Research Infrastructure Consortium

The European Research Infrastructure Consortium (ERIC) is a specific legal entity set up by a decision of the European Commission, that facilitates the establishment and operation of Research Infrastructures with European interest.

Advantages of an ERIC

Among others, it provides a legal capacity recognised in all EU Member States, a fast process to create an international organisation, and exemptions from VAT and excise duty. Moreover, an ERIC may adopt its own procurement procedures which have to respect the principles of transparency, non-discrimination and competition.

Procedures for establishing an ERIC

Upon the proposal from Member States/Associated Countries, the European Commission evaluates the added-value to the ERA (European Research Area) before the establishment of the ERIC. Procedures to obtain a formal commitment of a state to become a member or host an ERIC vary from country to country. The stakeholders of future ERICs are advised to work, well in advance, with their national authorities when preparing an ERIC. More information is available in the ERIC Practical Guidelines.

*Art. 2 (a) of Council Regulation (EC) No 723/2009 of 25 June 2009.

The ERIC Landscape

Members of the ERIC community are the following, listed by chronological order of the Commission decision:

2011	—17.03	SHARE-ERIC
2012	—29.02	CLARIN ERIC
2013	—07.11	EATRIS-ERIC
	—22.11	BBMRI-ERIC
	—22.11	European Social Survey-ERIC
	—29.11	ECRIN-ERIC
2014	—08.05	Euro-Argo ERIC
	—24.06	CERIC-ERIC
	—06.08	DARIAH-ERIC
	—12.12	JIV-ERIC
2015	—19.08	European Spallation Source ERIC
	—26.10	ICOS-ERIC
2016	—29.09	EMSO ERIC
2017	—17.03	LifeWatch ERIC
	—09.06	CESSDA-ERIC
	—09.06	ECCSEL-ERIC
	—04.07	Instruct-ERIC
2018	—20.02	EMBRC-ERIC
	—20.03	EU-OPENSOURCE ERIC
	—30.10	EPOS-ERIC
2019	—06.11	Euro-BioImaging ERIC
2021	—30.04	ELI-ERIC
2022	—22.02	AnaEE-ERIC
	—16.06	MIRRI-ERIC

The ERIC Landscape

The ERIC clusters based on the ESFRI roadmap are the following:

- Energy
- Environment
- Health & Food
- Physical Sciences & Engineering
- Social & Cultural Innovation

Energy	ECCSEL-ERIC
Environment	EMSO ERIC EPOS-ERIC EURO-ARGO ERIC ICOS-ERIC LifeWatch ERIC
Health & Food	AnaEE-ERIC BBMRI-ERIC EATRIS-ERIC ECRIN-ERIC EMBRIC-ERIC EU-OPENSOURCE ERIC Euro-BioImaging ERIC Instruct-ERIC
Physical Sciences & Engineering	CERIC-ERIC European Spallation Source ERIC ELI-ERIC JIV-ERIC
Social & Cultural Innovation	CESSDA-ERIC CLARIN ERIC DARIAH-ERIC European Social Survey-ERIC SHARE-ERIC

About the ERIC Community

In addition to the established ERICs mentioned in page 04 - *ERIC Landscape*, the ERIC community counts as of September 2021 the following organizations in the pipeline to becoming an ERIC:

- ACTRIS..... Aerosols, Clouds and Trace gases Research Infrastructure.
- CTAO..... Cherenkov Telescope Array Observatory.
- EMPHASIS..... European Infrastructure for Multi-scale Plant Phenomics and Simulation.
- E-RIHS..... European Research Infrastructure for Heritage Science.
- EST..... European Solar Telescope.
- EU SOLARIS... European Solar Research Infrastructure for Concentrated Solar Power.
- KM3NET..... KM3 Neutrino Telescope 2.0
- Infrafrontier..... European Research Infrastructure for the generation, phenotyping, archiving and distribution of mouse disease models.

ERICs in the ESFRI cluster projects

ERICs and ERICs-to-be are part of the 5 ESFRI cluster projects in the EOSC (European Open Science Cloud) panorama:



ENVRI-FAIR

For Environmental Research

ACTRIS, AnaEE-ERIC, EMSO ERIC, Euro-Argo ERIC, EPOS-ERIC, LifeWatch ERIC, ICOS-ERIC.



EOSC-LIFE

For Life Sciences

BBMRI-ERIC, ECRIN-ERIC, EATRIS-ERIC, EMBRC-ERIC, EU-OPENSOURCE ERIC, Euro-Biolmaging ERIC, EMPHASIS, Infrafrontier, Instruct-ERIC, MIRRI-ERIC.



ESCAPE

For Astronomy and Particle Physics

JIV-ERIC, CTAO.



PaNOSC

For multidisciplinary scientific analysis

CERIC-ERIC, European Spallation Source ERIC, ELI Delivery Consortium.



SSHOC

For Social Sciences and Humanities

CESSDA-ERIC, European Social Survey-ERIC, SHARE-ERIC, CLARIN ERIC, DARIAH-ERIC, E-RIHS.

About the ERIC Forum

During the past years, the European Commission and the ERICs met twice a year to address and discuss issues in the implementation of the ERIC regulation. ERICs exchanged during these meetings commonly shared challenges in fields ranging from human resources management, procurement, VAT and excises exemption implementation, in-kind contributions, as well as the socio-economic impact of ERICs, performance monitoring and more.

Aware of the constant enlargement of the community, the existing ERICs formed in **2017** the ERIC Forum to further strengthen the coordination among ERICs and interact effectively with the EC to achieve the full implementation of the ERIC regulation.

ERIC Forum OBJECTIVES



Advance ERICs' Operations

The strategic approach of the ERIC Forum will contribute to address critical challenges, develop best practices and share relevant know-how for the effective operation of ERICs and ERICs-to-be.



Role of ERICs in the European Research Area

ERIC Forum on the development of KPIs for Research Infrastructures

The ERIC Forum was invited by the ESFRI Working Group on Monitoring to contribute to the process of developing a standard set of Key Performance Indicators (KPIs) that could be used to monitor pan-European Research Infrastructures. KPIs are an internal management tool that helps Research Infrastructures to track progress towards set objectives and evaluate the delivered results in a qualitative and quantitative way.

The ERIC landscape covers 5 main scientific domains of the ESFRI roadmap, ranging from energy, environment, health and food, physical sciences and engineering, to social and cultural innovation.

Considering the diversity of Research Infrastructures in terms of organisational structure, mission, scientific area, level of operation and more, the ERIC Forum highlights the need for each KPI to be based on specific criteria (RACER* for ERICs) and customized according to the unique character of each Research Infrastructure. Moreover, it is fundamental to use KPIs only as a support tool for the individual monitoring of RIs, rather than a tool for comparing RIs and their respective performances.

The high performance of European Research Infrastructures has made a significant contribution to the development of the European Research Area.

The position paper is available [here](#).

**RACER (Relevant, Acceptable, Credible, Easy and Robust).*

Role of ERICs in the European Research Area

ERIC Forum on the future of the ERA, its priorities and goals

ERICs are the backbone of the European Research Area and bring an added value to its development through scientific and technological contributions. ERICs provide the European research community with access to resources and cutting-edge facilities, thus supporting scientific excellence and responding to global requirements in all research fields. Moreover, ERICs support mobility of researchers and knowledge across the ERA, and promote collaboration between countries.

In that regard, the ERIC Forum plays an important role in the implementation of the ERA. For that, the Forum was invited in 2019 by the ERAC (the European Research Area and Innovation Committee) to contribute to the draft narrative about the future of the ERA and to provide a response on the ERA priorities and goals. The position paper addresses a set of questions asked by the ERAC WP in relation to the three ERA objectives: 1) An inspiring and empowering ERA, 2) A seamless, connected and competitive ERA, 3) An involving and inclusive collaborative ERA). The position paper is available [here](#).

ERIC Forum on the response of its members to societal challenges

ERICs are important science enablers that address societal challenges through various research activities and services. In view of the upcoming European Union's Research and Innovation Framework Programme, Horizon Europe, ERICs and ERICs-in-preparation have defined their contribution to the five mission areas being developed for Horizon Europe: 1) Cancer, 2) Adaptation to climate change including societal transformation, 3) Healthy oceans, seas, coastal and inland waters, 4) Climate-neutral and smart cities, 5) Soil health and food.

ENERGY



■ ECCSEL-ERIC

ECCSEL-ERIC



ECCSEL, the European Carbon Dioxide Capture and Storage Laboratories, is a world-class CCUS (Carbon Capture, Transport, Utilisation and Storage) Research Infrastructure offering transnational access to world-leading European facilities to conduct research.

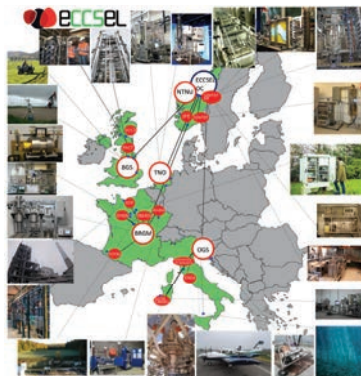
ECCSELERATE project will define the next steps and facilitate the emerging developments of chain integration optimisation with 3rd generation capture technologies, and potential sustainable synergies with CCU (Carbon Capture and Utilization). This will enable researchers to generate substantial knowledge leading to new innovative, cost effective solutions for CCUS, helping to ensure energy security and combat climate change by contributing to the delivery of a low carbon energy and industry sector future.

ECCSEL ERIC is contributing to reach the goals set by the European Green Deal, the roadmap for making the EU's economy sustainable.

- **ECCSEL-ERIC Member Countries:**
NO, FR, IT, NL, UK.

- **Contact ECCSEL-ERIC:**
E-mail: info@eccsel.org

- **www.eccsel.org**



ENVIRONMENT



- EMSO ERIC
- EPOS-ERIC
- EURO-ARGO ERIC
- ICOS-ERIC
- LifeWatch ERIC

EMSO ERIC



EMSO, the European Multidisciplinary Seafloor and water column Observatory, aims to explore the oceans, to gain a better understanding of phenomena happening within and below them, and to explain the critical role that these phenomena play in the broader Earth systems.

Observatories are platforms equipped with multiple sensors, placed along the water column and on the seafloor at key sites around Europe. The observatory design allows interdisciplinary objectives to be addressed simultaneously across temporal and spatial scales.

EMSO advances in information and knowledge of ocean processes in the water column and in deep ocean environments, improving resilience to climate change, natural and anthropogenic disasters, creating new professional skills and education in marine sciences, and promoting sustainable blue growth, through innovative services and underwater technology.

- **EMSO ERIC Member Countries:**
IT, EL, ES, FR, IE, NO, PT, RO, UK.

- **Contact EMSO ERIC:**
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Operative Office: Via Giunio Antonio Resti 63
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Tel +39 06.45431040
E-mail: info@emso-eu.org

- **www.emso.eu**
@EMSOeu

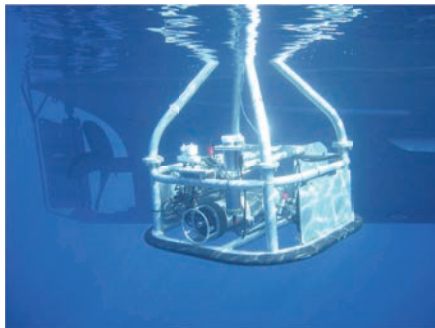


Photo Credit: INGV

EPOS-ERIC



EPOS, the European Plate Observing System, is the research infrastructure aimed at ensuring sustainable and universal use and re-use of multidisciplinary solid Earth science data and products fostering state-of-the-art research and innovation.

EPOS brings together Earth scientists, national research infrastructures, ICT experts and decision makers to establish and underpin a sustainable and long-term access to solid Earth science data and services integrating diverse European Research Infrastructures under a common federated framework. EPOS relies on e-science innovation to foster progress in science for supporting a safe and sustainable society.



- **EPOS-ERIC Member Countries:**
IT, BE, DK, EL, FR, IS, NL, NO, PL, PT, RO, SI, UK, CH*. (*Observer)

- **Contact EPOS-ERIC:**
Executive Coordination Office, Via di Vigna Murata 605, Rome. Italy
E-mail: info@epos-eric.eu

- **www.epos-eu.org**
@EPOSeu

Euro-Argo ERIC



Euro-Argo ERIC is a Research Infrastructure which allows active coordination and strengthening of the European contribution to the international Argo programme. It allows to provide real time data to climate research and operational oceanography, sustaining 1/4 of Argo 4000 floats network.

The international Argo programme was initiated in 1999 as a pilot project endorsed by the Climate Research Program of the World Meteorological Organization, GOOS, and the Intergovernmental Oceanographic Commission.

The set-up of the ERIC has strengthened the position of the European manufacturers, it facilitates the development of the Argo in Europe towards deepest ocean and biogeochemistry essential for Climate change applications and ocean health monitoring.

- **Euro-Argo ERIC Member Countries:**
FR, BG, DE, EL, ES, FI, IE, IT, NO, NL,
UK, PL*.
(*Observer)

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E-mail : euroargo@ifremer.fr

- **www.euro-argo.eu**
@EuroArgoERIC



Picture by: Miquel Gornila/SOCIB

ICOS ERIC



ICOS, the Integrated Carbon Observation System provides standardised and open data from more than 140 measurement stations across 13 European countries. The stations observe greenhouse gas concentrations in the atmosphere as well as carbon fluxes between the atmosphere, the land surface and the oceans. Thus, ICOS is rooted in three domains: Atmosphere, Ecosystem and Ocean.

The ICOS community consists of more than 500 scientists in both its current Member and Observer countries and beyond. More than 80 renowned universities or institutes are a part of the ICOS community and ICOS has strong connections to colleagues and operators outside of ICOS.

Greenhouse gas data from ICOS stations is available open access for anyone to use and analyse. ICOS-based knowledge supports policy- and decision-making to combat climate change and its impacts, thus contributing towards the EU strategic agenda in building a carbon-neutral and green Europe.

■ **ICOS ERIC Member Countries:**
FI, BE, CZ, DE, DK, ES, FR, IT, NL,
NO, SE, UK, CH*. (*Observer)

■ **Contact ICOS ERIC:**
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■ **www.icos-ri.eu**
@ICOS_RI



Picture by Konsta Punkka, copyright to ICOS-ERIC

LifeWatch ERIC



LifeWatch ERIC is the e-Science European infrastructure for biodiversity & ecosystem research.

LifeWatch ERIC facilitates the sharing and aggregation of open-data, and their integration and analysis in advanced models. Its Virtual Research Environments, combined with computational power and disruptive technologies, make it possible to test scenarios of change on biodiversity organisation and conservation, ecosystems and their services, under multiple drivers in the future.

LifeWatch ERIC supports decision-makers and citizens to build a climate-neutral, green, FAIR-er Europe, and assists in the implementation of the EU Green Deal roadmap and in reaching the 2030 Biodiversity Strategy targets, supplying evidence-based synthetic knowledge and nature-based solutions to tackle societal challenges.

■ LifeWatch ERIC Member Countries:

ES, BE, EL, IT, NL, PT, SI, SK*.

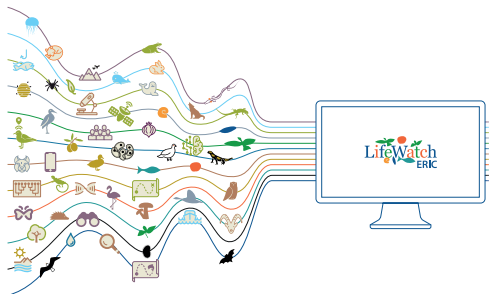
(* Observer)

■ Contact LifeWatch ERIC:

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E-mail: info@lifewatch.eu

■ www.lifewatch.eu

@LifeWatchERIC



HEALTH and FOOD



- AnaEE-ERIC
- BBMRI-ERIC
- EATRIS-ERIC
- ECRIN-ERIC
- EMBRC-ERIC
- EU-OPENSOURCE ERIC
- Euro-BioImaging ERIC
- Instruct-ERIC
- MIRRI-ERIC

AnaEE-ERIC



At the core of AnaEE (Analysis and Experimentation on Ecosystems) approach is a network of distributed experimental facilities, through which ecosystems can be exposed to a series of controlled conditions, from land-use change, pollution, biological invasions, rising atmospheric greenhouse gases concentrations, and to increasing extreme events such as droughts and heatwaves. By linking these platforms to modelling approaches, AnaEE advances the understanding of the environmental impacts of ongoing global change, and fosters adaptation and mitigation strategies for safeguarding ecosystem services and their economic and societal benefits.

AnaEE advances knowledge necessary to tackle the complex global environmental challenges facing human societies. It forges evidence-based adaptation and mitigation strategies that assure plant, soil, water, biodiversity and ecosystem health today and in the future. Those strategies are needed to maintain essential services to society, including adaptation to climate change, carbon sequestration, food security, clean water, and preservation of biodiversity.

- **AnaEE-ERIC Member Countries:**
FR, BG, CIHEAM, CZ, DK, FI, IT, BE*
(*Observer)
- **Contact AnaEE-ERIC:**
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1 avenue de la Terrasse
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- **www.anaee.eu**
@AnaEE_EU



BBMRI-ERIC



BBMRI is a European Research Infrastructure for biobanking that brings together all the main players from the biobanking field (researchers, biobankers, industry, and patients) to boost biomedical research.

BBMRI offers quality management services, support with ethical, legal and societal issues, and a number of online tools and software solutions for biobankers and researchers. Ultimately, the goal of BBMRI is to make new treatments possible.

BBMRI-ERIC's Directory is one of the largest in the world with over 100 million samples and datasets from more than 600 biobanks across 20 European countries and 1 international organization. Researchers can browse our catalogue and filter by diagnosis, type of material, quality characteristics or country and they can send single access request to multiple biobanks. Biobanks can increase their visibility by allowing their samples to be findable by Europe's 500,000 life scientists. Discover the recently added COVID-19 filter to find samples and datasets applicable to research on SARS-CoV-2 and COVID-19: <https://directory.bbmri-eric.eu>

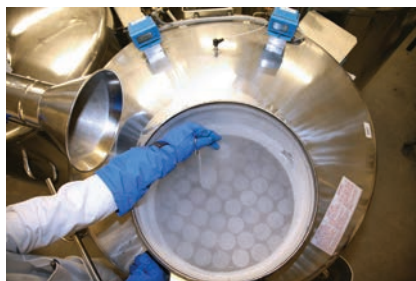
■ **BBMRI-ERIC Member Countries:**

AT, BE, BG, CZ, DE, EE, EL, FI, IT, LV, MT, NL, NO, PL, SE, UK, CH*,CY*,LT*,TR*, and IARC-WHO*. (*Observer)

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■ **www.bbmri-eric.eu @BBMRIERIC**



EATRIS-ERIC

eatris

European infrastructure
for translational medicine

The mission of EATRIS, the European Research Infrastructure for Translational Medicine, is to accelerate the effective translation of research discoveries into patient benefit. EATRIS provides fast, tailored access to technologies and expertise from 115 academic centres, focusing on preclinical and early clinical medicines development.

Through bridging the gap between research results and new diagnostic tools and therapies that benefit patients, EATRIS strengthens the productivity and impact of the European Health research and Innovation as well as increases the benefits of research for the health and well-being of the population. By pulling together the scientific and technological expertise and know-how of 115 academic centres in 13 countries, EATRIS contributes to Europe's efforts for stronger cross-border cooperation and more coordinated response to tackle health-related challenges.

As driver of industry-academia collaborations, EATRIS also enables cross-sectorial research and innovation and helps unlock the full potential of new tools, technologies and digital solutions for a healthy society.

■ **EATRIS-ERIC Member Countries:**

NL, BG, CZ, ES, FI, FR, IT, LU, NO, PT, SE, SI, HR*, LV*. (*Observer)

■ **Contact EATRIS-ERIC:**

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@EatrisEric



ECRIN-ERIC



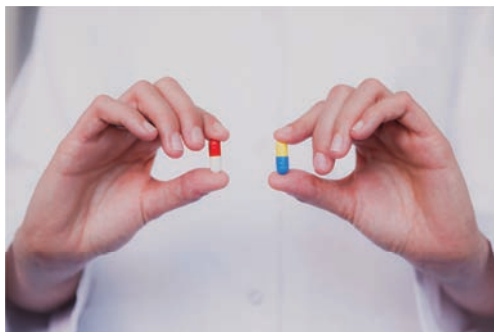
ECRIN-ERIC is a European Research Infrastructure facilitating multinational clinical research, through the provision of advice and services for the set-up and management of investigator or SME led clinical studies in Europe. ECRIN unites national networks of clinical trial units across Europe, through its scientific partners, to fulfil its vision of generating scientific evidence to optimise medical practice. By supporting clinical trials across borders and advising and implementing policy, ECRIN advances knowledge flow, competitiveness and integration in European clinical research.

ECRIN plays a key role in the EU Mission Cancer and the Health cluster of Pillar 2, Global Challenges and European Industrial Competitiveness supporting multinational clinical studies that will provide new therapeutic, diagnostic and preventive solutions for Europe's main health challenges, and contributing to develop tools and strengthen capacity for clinical research.

- **ECRIN-ERIC Member Countries:**
FR, CZ, DE, ES, HU, IE, IT, NO, PT,
CH*, PL*, SK*.
(* Observer)

- **Contact ECRIN-ERIC:**
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75013 Paris, France
E-mail: contact@ecrin.org

- **www.ecrin.org**
@ECRIN_ERIC



EMBRC-ERIC



The European Marine Biological Resource Centre (EMBRC) aims to advance fundamental and applied marine biology and ecology research, while promoting the development of blue biotechnology. This is achieved by facilitating access to marine organisms and ecosystems, experimental facilities, technological platforms, and relevant services in its 32 marine stations in 9 European countries in support of robust and innovative academic and industrial research.

EMBRC works across a wide range of marine biology areas and with diverse stakeholders.

EMBRC contributes to societal challenges by promoting sustainable solutions related to the functioning of marine ecosystems and the planet as a whole, and enabling access to marine biodiversity across Europe to support large-scale, high-quality and innovative marine science. In particular, EMBRC supports new cures, drugs, food sustainability, climate change, and blue biotechnology.

■ EMBRC-ERIC Member Countries:

FR, BE, EL, ES, IL, IT, NO, PT, UK.

■ Contact EMBRC-ERIC:

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■ www.embrc.eu

@EMBRC_EU



EU-OPENSREEN ERIC



The European Infrastructure of Open Screening Platforms for Chemical Biology develops novel small chemical compounds that elicit specific biological responses on organisms, cells or cellular components.

EU-OPENSREEN offers researchers from Europe and around the world open access to a uniquely broad range of high technologies and tools for the systematic screening of chemical substances for their biological effects.

EU-OPENSREEN overcomes the technically and logistically daunting task of developing high-quality tool compounds, which may then be translated into marketable chemical products for unmet needs in medicine, nutrition, agriculture and environment.

■ EU-OPENSREEN ERIC Member

Countries:

DE, CZ, DK, ES, FI, LV, NO, PL.

■ **Contact EU-OPENSREEN ERIC:**

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D-13125

Berlin Germany

Phone: +49 (0)30 9489 2422

■ **www.eu-openscreen.eu**

@EuOpenscreen



Euro-BiolImaging ERIC



Euro-BiolImaging is a research infrastructure that offers open access to imaging technologies, training and data services in biological and biomedical imaging.

Life scientists can access imaging instruments hosted at 25 Nodes, expertise, training opportunities and data management services.

Imaging technologies are the central technology platform driving research in most disciplines of the life sciences.

Euro-BiolImaging contributes to discoveries in health, food security, plant biology, marine ecosystems, and the environment. It also promotes FAIR image data, enabling cross-disciplinary research via integration with other data types.

- **Euro-BiolImaging ERIC Member Countries:**

FI, AT, BG, CZ, DK, EMBL, FR, HU, IL, IT, NO, NL, PT, SI, SE, UK, BE*.

(*Observer)

- **Contact Euro-BiolImaging ERIC:**

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FI-20521, Turku, FINLAND

E-mail: info@eurobioimaging.eu

- **www.eurobioimaging.eu**

@EuroBioImaging



Instruct-ERIC



Instruct-ERIC is the single point of access to technology and expertise for structural biology research.

Through its specialist research centres in Europe, Instruct-ERIC offers funded research visits, training, internships and R&D awards.

By promoting integrative methods, Instruct-ERIC enables excellent science and technological development for the benefit of all life scientists.

In making high-end structural biology facilities available to scientists, Instruct-ERIC is helping to democratise and harmonise European research tackling key societal challenges in the medical and life science domains, enabling insights and developments with a global impact.

■ Instruct-ERIC Member Countries:

UK, BE, CZ, DK, ES, EMBL, FI, FR, IL, IT, LV, NL, PT, SK, EL* (*Observer*).

■ Contact Instruct-ERIC:

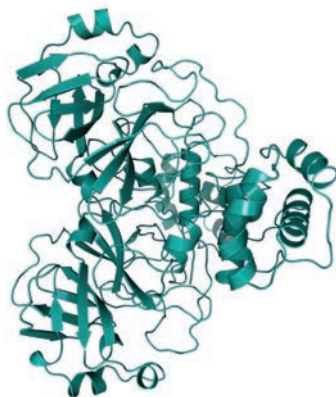
Instruct-ERIC Hub, Oxford House,
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Phone: +44 (0) 1865 98 86 39

E-mail: admin@instruct-eric.eu

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*Structural biology methods have been crucial in determining SARS-CoV-2 protein structures.
Image: SARS-CoV-2 main protease (6YB7), Diamond Light Source, Instruct Centre UK.*

Mirri-ERIC



MIRRI, the Microbial Resource Research Infrastructure, is the pan-European distributed Research Infrastructure for the preservation, systematic investigation, provision and valorisation of microbial resources and biodiversity.

MIRRI offers a single point of access to a broad range of 400,000+ high-quality microorganisms, their derivatives, associated data and services, with a special focus on the domains of Health & Food, Agro-Food, and Environment & Energy. MIRRI's resources, services and expertise can help researchers and bioindustries delivering the maximum value and impacts from their projects, technologies and products, in response to some of the greatest societal, environmental and economic challenges that Europe and the World are facing, such as those related to the circular economy, human and planetary health, food security and safety, climate transition, decarbonisation or biodiversity.

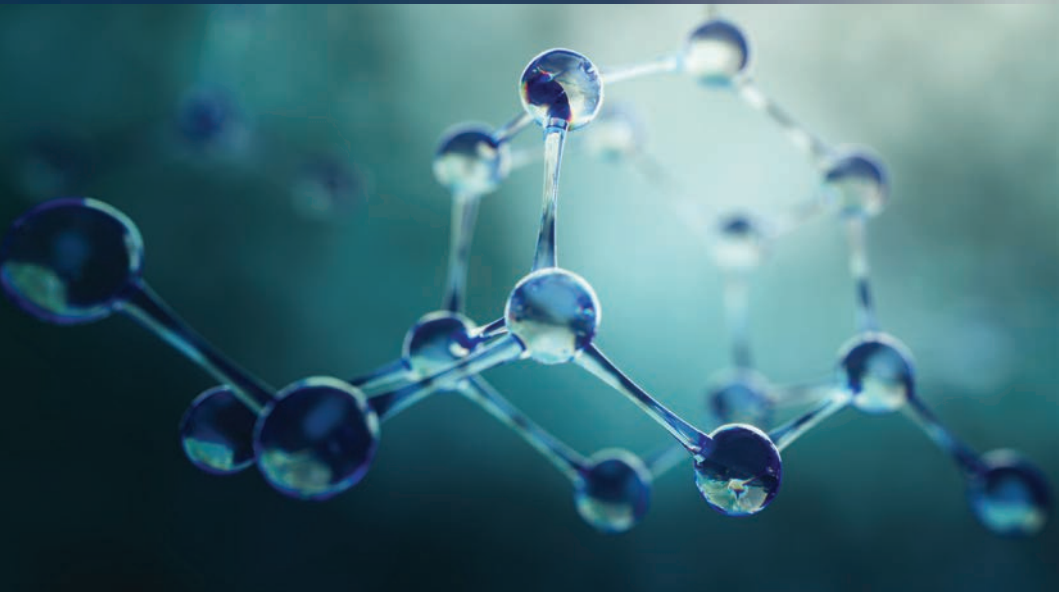
■ **MIRRI-ERIC Member Countries:**
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■ **Contact MIRRI-ERIC:**
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■ **mirri.org**
@ItMirri



PHYSICAL SCIENCES and **ENGINEERING**



- CERIC-ERIC
- European Spallation Source ERIC
- JIV-ERIC

CERIC-ERIC

CERIC

Central European
Research Infrastructure
Consortium

CERIC, the Central European Research Infrastructure Consortium, integrates and provides open access to some of the best facilities in Europe, to help science and industry advance in all fields of materials, biomaterials and nanotechnology.

With a single entry point to leading national research infrastructures in 8 European countries, it enables the delivery of innovative solutions to societal challenges in the fields of energy, health, food, cultural heritage and more.

To contribute in providing solutions to pressing societal challenges, CERIC is increasing its focus on the development of services in the field of energy storage. This will contribute to the EU climate goals, addressed through the Energy and climate plans, to the EU green Deal, and potentially also to the Horizon Europe Mission on 100 carbon neutral cities. Another priority is life science, with actions such as a COVID-19 rapid access, contributing to the SDG (Sustainable Development Goals) Health and Wellbeing.

- **CERIC-ERIC Member Countries:**
IT, AT, CZ, HR, HU, PL, RO, SI, RS*
(*Observer)

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ELI ERIC



ELI, the Extreme Light Infrastructure, is the world's largest and most advanced high-power laser infrastructure and a global technology and innovation leader in high-power, high-intensity, and short-pulsed laser systems.

The ELI provides tremendous opportunities to scientists from the European Research Area across a broad range of disciplines. It enables immediate access to the world's most intense and shortest-pulsed lasers.

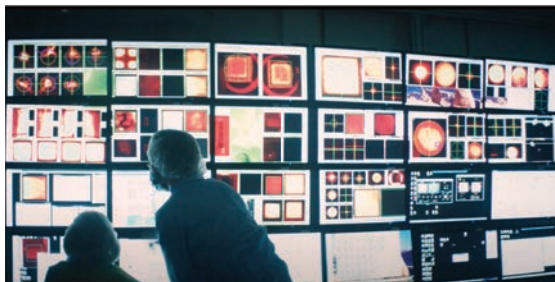
ELI ERIC's contributions to current societal challenges and the UN Sustainable Development Goals derive from access to world-class high power and ultra-fast lasers for science that will enable cutting-edge research in physical, chemical, material, and medical sciences, as well as breakthrough innovations from which tools and technology can be developed for the benefit of society.

- **ELI ERIC Member Countries:**
CZ, HU, IT, LT, DE*, BG*
(*Observer)

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European Spallation Source ERIC



The European Spallation Source is a multi-disciplinary research infrastructure with the vision to build and operate the world's most powerful neutron source. The facility is under construction in Lund (Sweden), while the Data Management and Software Centre (DMSC) is based in Copenhagen (Denmark). The unique capabilities of ESS will both greatly exceed and complement those of today's leading neutron sources, enabling new opportunities for researchers across the spectrum of scientific discovery, including materials and life sciences, energy, environmental technology, cultural heritage and fundamental physics.

Research with neutrons gives us knowledge that improves our everyday lives and is a necessary component to solving society's grand challenges. The research conducted at ESS will contribute to new and better materials for engineering and digital infrastructure, medical technology, pharmaceuticals, energy solutions, decarbonisation technologies and our basic understanding of the fundamental science that underpins these socio-economic achievements.

■ European Spallation Source ERIC

Member Countries:

SE, CH, CZ, DE, DK, EE, ES, FR, HU, IT,
NO, PL, UK.

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Aerial view of the ESS construction site, April 2020. Photo: Perry Nordeng

JIV-ERIC



JIVE, the Joint Institute for VLBI ERIC, facilitates radio astronomical research as the data processing and user support centre of the European VLBI Network (EVN), a globally distributed research infrastructure composed by some of the largest radio telescopes on Earth. JIVE develops real-time applications for large data flows (transport and processing), and advances precise synchronization techniques using a state-of-the-art e-infrastructure. JIVE represents a unique and collaborative European initiative, as it provides joint data products that individual members cannot produce alone.

Through accessible data archive services, on-site user support, and educational and training activities, JIVE contributes to societal challenges by promoting diversity in science, facilitating science fundamental to our understanding of the Universe, with additional relevance to Earth sciences (with ties to climate change), space weather, and habitability zones and possibility of life in planets around other stars.

- **JIV-ERIC Member Countries:**
NL, ES, FR, IT, LV, SE, UK.

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Credit of artwork: Danielle Futselaar (art source.nl)

SOCIAL and CULTURAL INNOVATION

- CESSDA-ERIC
- CLARIN-ERIC
- DARIAH-ERIC
- European Social Survey-ERIC
- SHARE-ERIC



CESSDA-ERIC

CESSDA, the Consortium of European Social Science Data Archives, provides large-scale, integrated and sustainable data services to the Social Sciences.

CESSDA brings together social science data archives across Europe, with the aim of promoting the results of social science research and supporting national and international research and cooperation.

CESSDA will provide a platform for social data researchers that integrates with the European Open Science Cloud within the 2020-2022 timeframe.

The CESSDA Data Catalogue is a platform for researchers wanting to find and reuse social science and humanities research data. The CESSDA Data Management Expert Guide helps social science researchers make their research data Findable, Accessible, Interoperable and Reusable (FAIR).

■ CESSDA-ERIC Member Countries:

NO, AT, BE, CZ, DE, DK, EL, FI, FR, HR,
HU, MK, NL, PT, RS, SE, SI, SK, UK,
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Source: K. Mitch Hodge, Social Scientist, Unsplash

CLARIN ERIC



CLARIN, the Common Language Resources and Technology Infrastructure, makes digital language resources available to scholars, researchers, students and citizen-scientists from all disciplines, especially in Humanities and Social Sciences through single sign-on access. CLARIN offers long-term solutions and technology services for deploying, connecting, analysing and sustaining digital language data and tools.

The CLARIN services support research addressing Horizon Europe missions areas and societal challenges at large by enabling comparative studies of public debate and parliamentary discussion based on textual data across languages and regions for topics such as pandemics and socio-economic development.

- **CLARIN ERIC Member Countries:**
NL, AT, BE, BG, CY, CZ, DE, DK, EE, EL, FI, HR, HU, IS, IT, LT, LV, NO, PL, PT, SE, SI, FR*, ZA*, UK*.
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DARIAH ERIC



DARIAH, the Digital Research Infrastructure for the Arts and Humanities, is a pan-European infrastructure for arts and humanities scholars working with computational methods.

It supports digital research as well as the teaching of digital research methods. It enhances and supports digitally enabled research and teaching across the Arts and Humanities.

DARIAH ensures that humanities researchers are able to assess the impact of technology on their work in an informed manner, access the data, tools, services, knowledge and networks they need seamlessly and in contextually rich virtual and human environments and produce excellent, digitally-enabled scholarship that is reusable, visible and sustainable.

- **DARIAH ERIC Member Countries:**
FR, AT, BE, BG, CY, CZ, DE, DK, EL,
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European Social Survey ERIC



The European Social Survey (ESS) is a European research infrastructure consortium providing freely accessible survey data for use by academics, policymakers, civil society and the wider public. The nationally representative survey on a wide range of topics has been undertaken every two years since 2002 to monitor the attitudes and behaviour of people in 40 countries.

ESS data has played a vital role in helping to shape pan-European governance and policy in participating countries for almost 20 years. As Europe faces grand societal challenges such as climate change, immigration, welfare reform, declining political trust and health inequalities (amongst others), the ESS continues to provide regular robust data to help navigate the future. The ESS currently has the highest number of members of any ERIC (25).

■ **ESS ERIC Member Countries:**

UK, AT, BE, BG, CY, CZ, DE, EE, FI, FR, HR, HU, IE, IL, IS, IT, LV, LT, NL, NO, PL, PT, SE, SI, SK, CH* (**Observer*).

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- **www.europeansocialsurvey.org**
- **www.esswellbeingmatters.org**
- **@ESS_Survey**

SHARE-ERIC



SHARE, the Survey of Health, Ageing and Retirement in Europe, is a research infrastructure for studying the effects of health, social, economic and environmental policies over the life-course of European citizens and beyond. With 530,000 in-depth interviews of 140,000 people aged 50 or older from 28 European countries and Israel, SHARE is the largest pan-European social science panel study providing internationally comparable longitudinal micro data, which gives insights in the fields of public health and socio-economic living conditions of European individuals, both for scientists and policy makers.

Research based on SHARE data enables to tackle the challenges of health, pensions, long-term care, old-age poverty and population ageing in general with the help of scientific evidence and to improve the quality of life of all generations. The SHARE Corona Surveys (2020 and 2021) allow examining the non-intended effects of the epidemic control decisions on the economic and social living conditions of a large and vulnerable part of the population.

- **SHARE-ERIC Member Countries:**
DE, AT, BE, BG, CY, CZ, EL, FR, HR, HU, IL, IT, NL, PL, SE, SI, CH*.
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The ERIC Map

Below is the map of Europe showing countries which host the statutory seat of an ERIC (dark blue) and countries which are members of an ERIC (turquoise blue).



ERICs are active in all EU Member States, Associated countries and third countries. They are open for accession of new members.

Scientific collaborations in the fields of energy, environment, health and food, physical sciences and engineering, and social and cultural innovation would foster research and innovation in the European Research Area.



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