

Deliverable report

D2.6

Roadmap for beginners

Document identifier:	D 2.6
Due Date	30/11/2022
Document date:	28/11/2022
Deliverable Title:	Roadmap for beginners
Level of dissemination:	PU
Work package and task:	WP2 Enhancing NCP Knowledge and capacities Management T2.2 Support to less experienced RI NCPs
Lead Beneficiary:	IIAP
Other Beneficiaries	PRAXI Network/FORTH, APRE, LPZ
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Version	Date	Changes	Author
1	17/10/2022	First draft	IIAP
2	10/11/2022	Second draft	APRE
3	25/11/2022	Third draft	PRAXI-LPZ
4	28/11/2022	Final	APRE

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1. INTRODUCTION

The purpose of the “Roadmap for beginners” is to setup recommended activities and milestones to improve the professionalisation and skills of the less experienced RI NCPs. This roadmap will define the more appropriate sequence to access the information about Research Infrastructures landscape that can help the beginners to better understand the RI word and to get in right away into its role of National Contact Point “. The less experienced or newly appointed (LE/NA) RI NCPs will be paired with an experienced NCP who will introduce the LE/NA RI NCP to the “Roadmap for beginners”, the RI programme and the network services.

The following activities will be carried out by RICH Europe to enhance NCP knowledge and capacities:

- to help NCPs to raise their knowledge about the procedures and the access to Horizon Europe calls;
- to minimise the time newly appointed RIs NCPs need to be able to provide excellent quality services;
- to raise the average quality of assistance provided to the clients.

In this regard, it is critical to mentor recently appointed and less experienced NCPs by increasing their involvement in dedicated working groups to reduce their learning curve length. The deliverable will provide Less Experienced or Newly Appointed (LE/NA) RI NCPs a more customised support from RICH Europe to reach the same level of knowledge of the group and be fully aware of RICH Europe services. The welcome pack will provide all necessary information, such as a welcome video, a digital guide, access to recorded trainings.

2. ROADMAP FOR BEGINNERS

The “Roadmap for beginners” consists of the following activities and milestone:

1st step - Understand the background

What are Research Infrastructures?

Research Infrastructures are facilities that provide resources and services for research communities to conduct research and foster innovation.

They can be used beyond research e.g., for education or public services and they may be single-sited, distributed, or virtual.

They include:

- major scientific equipment or sets of instruments
- collections, archives, or scientific data
- computing systems and communication networks;
- any other research and innovation infrastructure of a unique nature which is open to external users

According to the **ESFRI definition**, Research Infrastructures are:

“Facilities, resources or services of a unique nature, identified by European research communities to conduct and to support top-level research activities in their domains. They include major scientific equipment – or sets of instruments; knowledge-based resources like collections, archives and scientific data; e-Infrastructures, such as data and computing systems and communication networks; and any other tools that are essential to achieve excellence in research and innovation¹.”

For the scope of the present document, the Research Infrastructures considered are those with an international constituency. The following list provides an example of this assumption:

- Legally established Research Infrastructures (ERICs², Foundations, Asbl...)
- Research Infrastructures having a formally agreed governance,
- Networks (INFRAIAs, Design Phases)

¹ ESFRI Roadmap 2021. Strategy Report on Research Infrastructures

² ERIC: European Research Infrastructure Consortium

Single-sited Research Infrastructures

Single-sited Research Infrastructures are namely large research plants in a single or a few fully dedicated sites as astronomy and astrophysics telescopes, accelerator-based sources, nuclear reactor sources, extreme laser sources.

A single-sited RI needs to:

- i) have a legal status and a governance structure with clear responsibilities and reporting lines, including international supervisory and relevant external advisory bodies;
- ii) have an access policy and access point for external users facilitating the submission of proposals and a user programme absorbing a considerable fraction of the total capacity of the RI;
- iii) have a user support structure to optimise access to the relevant site, such as users' office, ancillary laboratories, accommodation arrangements and logistics;
- iv) have a data management system providing metadata and data storage, retrieval tools and on-line/in situ/remote data reduction and analysis;
- v) identify relevant and measurable Key Performance Indicators (KPI) addressing both excellence of scientific services and sustainability; vi) enforce a human resources policy guaranteeing the necessary competences for its operation, users support, education and training by equal opportunity hiring and secondments.

Distributed Research Infrastructures

Distributed Research Infrastructures are: networks of observatories of the earth, oceans, biodiversity; multiple operational sites in the health and food domain; surveys and longitudinal studies of the European population; collections of physical or digital information; innovation in heritage and culture; very large computational resources. In all cases, RIs offer physical access to the researchers and/or remote use;

A distributed RI particularly needs to:

- i) have a unique specific name, legal status and a governance structure with clear responsibilities and reporting lines, including international supervisory and relevant external advisory bodies;
- ii) have legally binding attributions of coordination competences and resources to the Central Hub;
- iii) have a unique access policy and provide for a single point of access for all users with a support structure dedicated to optimise the access for the proposed research;
- iv) have a user programme absorbing a relevant fraction of the total capacity of the RI;
- v) identify and adopt measurable Key Performance Indicators addressing both excellence of scientific services and sustainability;
- vi) have a human resources policy adequate to guarantee the effective operation of the Central Hub supporting the research, users programme, education and training by equal opportunity hiring and secondments; vii) define a joint investment strategy aimed at strengthening the RI through the Nodes and the common/shared facilities. These features mark the difference of a RI with respect to a coordinated research network (international collaborations of fully independent research performing organizations).

What the Commission is doing?

The Commission defines, evaluates and implements strategies and tools to provide Europe with world-class sustainable Research Infrastructures.

The Commission does this while cooperating closely with EU countries and countries associated to Horizon 2020. It also ensures that these research infrastructures are open and accessible to all researchers in Europe and beyond.

Key objectives

- reduce fragmentation of the research and innovation ecosystem
- avoid duplication of effort
- better coordinate the development and use of Research Infrastructures
- establish strategies for new pan-European, well-established intergovernmental or national Research Infrastructures
- join forces internationally to construct and run large, complex or expensive infrastructures, respond to global challenges and/or foster combining skills, data and efforts of the world's best scientists
- foster the innovation potential of Research Infrastructures by making industry more aware of opportunities offered to improve their products and by the co-development of advanced technologies e.g., ATTRACT
- use Research Infrastructures for science diplomacy - using science collaboration to address common problems and build partnerships internationally e.g., SESAME in Jordan and EU-CELACSearch for available translations of the preceding linkEN in Latin America

2nd step - Reference Documents

ESFRI ROADMAP 2018	https://www.esfri.eu/esfri-roadmap
ESFRI ROADMAP 2021	https://www.esfri.eu/esfri-roadmap
HORIZON EUROPE PILLAR I, EXCELLENT SCIENCE	https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/research-infrastructures_en
APRE QUADERNI R&I	https://apre.it/wp-content/uploads/2021/07/APREquaderni_RI_2021.pdf
SUPPORTING THE TRANSFORMATIVE IMPACT OF RESEARCH INFRASTRUCTURES ON EUROPEAN RESEARCH	https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/european-research-infrastructures_en

GSO Work Plan – May 2018 through June 2020	http://www.gsogri.org/wp-content/uploads/2019/12/gso_work_plan-112819fr_to_cn.pdf
European Charter for Access to Research Infrastructures	https://www.e-rihs.it/wp-content/uploads/2021/02/KI0415085ENN.en_.pdf

3rd step – Research Infrastructures’ pillars

ESFRI - European Strategy Forum on Research Infrastructure	https://www.esfri.eu/
ERIC – European Research Infrastructure Consortia	https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/european-research-infrastructures/eric_en
ERA – European Research Area	https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/european-research-area_en
EOSC – European Open Science Cloud	https://eosc-portal.eu/
EUDAT - Collaborative Data Infrastructure	https://eudat.eu/

4th step – Research Infrastructures’ Work Programme of Horizon Europe 2021-22

The overall objective of the Research Infrastructures Programme under Horizon Europe is to empower Europe through world-class and accessible research infrastructures, as part of an integrated European research and technology infrastructures landscape. Research infrastructures (RIs), including the European Open Science Cloud (EOSC), and technology infrastructures (TIs) are crucial enablers of research and technological innovation and drivers of multidisciplinary and data-intensive science. Europe will benefit from an integrated, inter-operable and effective ecosystem of RIs and TIs that helps covering the continuum of needs from fundamental knowledge creation to technology deployment and supports the implementation of Open Science policies as well as European technology leadership. Previous European Framework Programmes have made a significant contribution towards a more efficient, open and effective use of national research infrastructures and have developed, with the European Strategy Forum on Research Infrastructures (ESFRI), a coherent and strategy-led approach to policy making and national investments on pan-European research infrastructures. The work with ESFRI triggered, so far, the development of 55 European research infrastructures, of which 37 have already been implemented, across all fields of science, mobilising close to €20 billion in investments. Twenty-one of these research infrastructures have been established as European Research Infrastructure Consortia (ERIC) – a legal form enshrined in EU law and the only EU regulation in the European Research Area (ERA) framework – that enables joint funding and integration of resources from Member States (MSs) and Associated Countries (ACs) and secures their commitment to continuing support. The EU, its MSs and the ACs invest together in the research infrastructures also through the Cohesion Policy, building research capacities at regional/national level with a view to deploy research results into markets. Europe has a rich landscape of research infrastructures. For the future, smart investments will be required to drive the development of new research infrastructures to fill knowledge gaps, support emerging needs and scientific breakthroughs, and respond to new challenges,

notably in the field of health and in the context of the green and digital transitions. At the same time, efforts to optimise and consolidate the existing capacities, avoiding fragmentation and unnecessary duplications, will provide the ERA with a more effective and interlinked and well-functioning research infrastructure landscape. Such RIs landscape and its continuous evolution and upgrade will make the ERA increasingly attractive for researchers and talents from all over the world. It is therefore necessary to foster synergies between RI funding instruments (European and national) to align R&I investments, ensure access to excellence and translate research results for the benefit of the society and the economy. The recently published ESFRI White Paper also puts a new emphasis on the consolidation of a European research infrastructure ecosystem underpinning the ERA, on the role the existing facilities at European and national level can play to address the EU's broad policy priorities and, on the needs, to integrate new research infrastructures in strategic areas to enhance R&I capacities in Europe. RIs, as highlighted in the ESFRI White Paper, have the potential to contribute to local and regional socio-economic development by triggering the creation of and playing a central role in knowledge innovation hubs. In this context, closely interacting with local businesses and industry, RIs support regional research priorities and the implementation of the Smart Specialization Strategies (S3), thus contributing to the alignment of priorities at EU level. In the RI landscape, the EOSC offers a horizontal, pan-European, inter-operable, federated ecosystem of standards, technologies and services, along with rules of engagement, which will enable and enhance seamless access to and reliable re-use of research outputs, i.e. data, software and other digital objects, included those generated or collected by other research infrastructures, supporting the whole research data life-cycle from discovery and mining to analysis, storage and management. High-speed connectivity (GÉANT) underpins the development of EOSC and provides fast, trusted and reliable connectivity for researchers in Europe and beyond. Activities to deliver the EOSC as a trusted virtual environment supporting Open Science and data and service-driven research will be co-designed with MS/ACs and stakeholders in the framework of the proposed EOSC European partnership. This will allow Europe to seize data-intensive research and innovation opportunities and enable breakthroughs at the crossroads of different disciplines by a broad interdisciplinary user community. The deployment of an EOSC will be ensured through a platform based on a federated core, enabling access to a wider ecosystem of data and services, as well as use of integrated High-Performance Computing (HPC), Cloud, data, networks and Artificial Intelligence (AI) resources. EU Framework Programmes have so far fostered the opening at EU level of RIs to transnational users, enabling all researchers in Europe and beyond to have access to the best RIs they need for their research. These efforts have radically transformed the availability of state-of-the-art facilities for researchers, reinforcing Europe's strong research performance and its ability to react rapidly, for example in providing reference materials worldwide to respond to the coronavirus outbreak. Up to now, this approach has been mainly science driven. As European RIs have the potential to enhance society's long term and consistent problem solving capacity, new efforts are now needed to maintain Europe at the forefront of science and to ensure the provision of customised, multidisciplinary, impact-oriented, and integrated RI services and resources to accelerate the transition towards a socially inclusive green and digital future and to support an effective and responsive health system as well as evidence-based policymaking. In this regard, Research Infrastructures can substantially contribute to the objectives of Horizon Europe clusters, missions and partnerships in Pillar II as well as to support its innovation dimension. The Research Infrastructures work programme under Horizon Europe will address the global environmental, social, and economic challenges, in line with the renewed ERA, which requires an explicit contribution of research and technology infrastructures to Europe's wider policy objectives, thus maximizing the contribution of science and technology to the needs of the society and increasing Europe's competitiveness. To cope with new challenges and ensure leadership of Europe in frontier research, RIs need to be maintained at the forefront

of science and technological developments. To this extent, the Research Infrastructures work programme will support the development of innovative cutting-edge scientific instrumentation, software, and methods. These developments, carried out in cooperation and co-creation with industry, will advance the industrial technological level in Europe and lead to breakthrough technological and societal innovation. Training for RI users, as well as strengthening the RI scientific, technical, and managerial competencies of staff, will underpin all the activities implemented under the Research Infrastructures work programme, thus contributing to the education and employment opportunities of the next generation of researchers, technologists and high-level science managers. A well-functioning RIs landscape and its continuous evolution and upgrade will make the ERA attractive for researchers and talents from all over the world

The Research Infrastructures work programme is structured around the following five destinations:

Destination	Objective
Developing, consolidating and optimising the European research infrastructures landscape, maintaining global leadership (INFRADEV);	To contribute to a strong, excellent and impactful European Research Area, by reinforcing RI capacities in Europe, their role at the global level and the policy-making in this field;
Enabling an operational, open and FAIR EOSC ecosystem (INFRAEOSC);	Aiming at delivering a “Web of FAIR Data and Services” for Science: a trusted virtual environment supporting Open Science, based on key horizontal core functions, with their corresponding e-infrastructure, and service layers accessible to researchers across disciplines throughout Europe;
RI services to support health research, accelerate the green and digital transformation, and advance frontier knowledge (INFRA SERV);	With a focus on the provision of integrated RI services to enable R&I addressing major societal challenges, including health challenges, the green and digital transformation and the resilience to crises, as well as to support curiosity-driven research and advancement of frontier knowledge in broad scientific domains;
Next generation of scientific instrumentation, tools and methods and advanced digital solutions (INFRA TECH);	to enable new discoveries and keep Europe’s RIs at the highest level of excellence, while paving the way to innovative solutions to societal challenges and new industrial applications, products and services;
Network connectivity in Research and Education – Enabling collaboration without boundaries (INFRA NET);	Providing high-bandwidth networks and network services to interconnect researchers, data and computing resources in a non-discriminatory way regardless of the location of the users and the

	resources to allow scientists to conduct excellent research;
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5th step – Research Infrastructures’ Work Programme of Horizon Europe 2023-24

The Research Infrastructure Programme under Horizon Europe is a programme of the European Commission that has the aim to empower Europe through world-class and accessible research infrastructures, as part of an integrated European research and technology infrastructure landscape. Research Infrastructure³ are crucial enablers of research and technological innovation and drivers of multidisciplinary and data-intensive science.

For the future, smart investments will be required to drive the development of new research infrastructures to fill knowledge gaps, support emerging needs and scientific breakthroughs, and respond to new challenges, notably in the field of health and in the context of the green and digital transition.

Previous European Framework Programme have made a significant contribution towards a more efficient use of national research infrastructures. These programmes have developed, in conjunction with the European Strategy Forum on European Infrastructures (ESFRI) a coherent and structured approach to policy making and national investments on pan-European research infrastructures. This cooperation has contributed to the creation of 63 European research infrastructures. Twenty-three of these research infrastructures have been established as European Research Infrastructure Consortium (ERIC), a legal form enshrined in EU law and the only EU regulation in the European Research Area (ERA) framework. The efforts and the actions put in place to optimize the existing capacities will provide the ERA with a more effective and interlinked research infrastructure landscape. This continuous evolution will contribute to make the European Research Area an increasingly attractive platform for researchers and talents from all over the world. The new ERA policy agenda includes a specific action on strengthening the sustainability, accessibility and resilience of research infrastructure in the ERA. Moreover, the ESFRI White Paper stresses the importance of a consolidated European research infrastructure ecosystem, the role the existing facilities at European and national level can play to address the EU’s broad policy priorities. It also underlines need to integrate new research infrastructures in strategic areas to enhance R&I capacities in Europe.

In this framework, the European Open Science Cloud (EOSC) offers a horizontal, pan-European, interoperable, federated ecosystem of standards, technologies and services, along with rules of engagement, which will enable and enhance seamless access and reliable re-use of research outputs. Activities to deliver the EOSC as a trusted virtual environment supporting Open Science and data and service-driven research will be co-designed with MS/CAs and stakeholders in the framework of the proposed EOSC European partnership. The deployment of an EOSC will be ensured through a platform based on a federated core, enabling access to a wider ecosystem of data and services, as well as use of integrated High-Performance Computing (HPC), Cloud, data, networks and Artificial Intelligence (AI) resources. EU framework Programmes have so far fostered the opening at EU level of RIs to transnational users, enabling all researchers in Europe and beyond to have access to the best RIs they need for their research.

³ Research infrastructures (RIs) are facilities that provide resources and services for the research communities to conduct research and foster innovation in their fields. Their definition is given in Article 2(1) of EU Regulation 2021/695 of 28 April 2021 establishing Horizon Europe;

As European RIs have the potential to enhance society’s long term and consistent problem-solving capacity, new efforts are now needed to maintain Europe at the forefront of science and to ensure the provision of customized, multidisciplinary, impact-oriented and integrated RI services and resources to accelerate the transition towards a socially inclusive green and digital future and to support an effective and responsive health system as well as evidence-based policymaking. Research Infrastructures can substantially contribute to the objectives of Horizon Europe clusters, missions and partnerships in Pillar II as well as to support its innovation dimension.

The Research Infrastructures work programme under Horizon Europe will address the global environmental, social and economic challenges, in line with the renewed ERA, which requires an explicit contribution of research and technology infrastructures to Europe’s wider policy objectives, thus maximizing the contribution of science and technology to the needs of the society and increasing Europe’s competitiveness. Research infrastructures will also continue to support fundamental, curiosity-driven and disruptive research in order to secure the excellence of European research and achieve future technological progress.

To cope with new challenges and ensure leadership of Europe in frontier research, RIs need to be maintained at the forefront of science and technological developments. To this extent, the Research Infrastructures work programme will support the development of innovative cutting-edge scientific instrumentation, software and methods. These developments, carried out in cooperation and co-creation with industry, will advance the industrial technological level in Europe and lead to breakthrough technological and societal innovation.

Training for RI users, as well as strengthening the RI scientific, technical and managerial competencies of staff, will underpin all the activities implemented under the Research Infrastructures work programme, thus contributing to the education and employment opportunities of the next generation of researchers, technologists and high-level science managers. In addition, the possibility for RI staff to participate in the 2023 pilot EIC internship scheme will promote their entrepreneurial culture and upskilling.

The Research Infrastructures work programme is structured around the following five destinations:

Destination	Objective
Developing, consolidating and optimising the European research infrastructures landscape, maintaining global leadership (INFRADEV);	To contribute to a strong, excellent and impactful European Research Area, by reinforcing RI capacities in Europe, their role at the global level and the policy-making in this field;
Enabling an operational, open and FAIR EOSC ecosystem (INFRAEOSC);	Aiming at delivering a “Web of FAIR Data and Services” for Science: a trusted virtual environment supporting Open Science, based on key horizontal core functions, with their corresponding e-infrastructures, and service layers accessible to researchers across disciplines throughout Europe;

RI services to support health research, accelerate the green and digital transformation, and advance frontier knowledge (INFRASERV);	With a focus on the provision of integrated RI services to enable R&I addressing major societal challenges, including health challenges, the green and digital transformation and the resilience to crises, as well as to support curiosity-driven research and advancement of frontier knowledge in broad scientific domains;
Next generation of scientific instrumentation, tools and methods and advanced digital solutions (INFRATECH);	to enable new discoveries and keep Europe's RIs at the highest level of excellence, while paving the way to innovative solutions to societal challenges and new industrial applications, products and services;
Network connectivity in Research and Education – Enabling collaboration without boundaries (INFRANET);	Providing high-bandwidth networks and network services to interconnect researchers, data and computing resources in a non-discriminatory way regardless of the location of the users and the resources to allow scientists to conduct excellent research;

6th step – Research Infrastructures Network of NCPs in Horizon Europe - RICH Europe

Rich Europe is an 84-months Coordination and Support Action built on the past experience and achievements of the Research Infrastructures Networks funded under H2020 (RICH and RICH-2). The overall aim of the project is to improve and support the professionalization and harmonization of Research Infrastructures National Contact Points (NCPs) services across Europe and to contribute to the consolidation of the European research infrastructure ecosystem.

RICH Europe activities have been designed to

1. raise the general standard of support to programme applicants by enhancing NCPs knowledge and capacities and building a more professionalised and collaborative NCPs community;
2. enhance the quality of knowledge of RIs stakeholders about EU RIs calls & programme and raise their awareness about the trans-national and virtual access opportunities to research infrastructures;
3. lower the entry barriers for newcomers, with a focus on widening countries;
4. mainstream RIs in HE with a special focus on Clusters and the EIC programmes;
5. foster the cooperation among RIs at European and international level, and between RIs and the local/regional socio-economic ecosystem;

The project, in its 7-year duration, will address four major target groups:

- NCPs for Research Infrastructures;
- applicants in Horizon Europe RIs calls;

- Research Infrastructures and Academia;
- Industries and SMEs.

RICH Europe will provide services for NCPs:

- Trainings led by experts and experienced RI NCPs. Trainings will offer RI NCPs hands-on experience, experiences from successful projects' coordinators or partners as well as the perspective of stakeholders of the RIs landscape with the intervention of external experts. In some cases, trainings may be co-organised with Bridge2HE project or other NCP Networks. Trainings will be also a means of support for less-experienced NCPs;
- Visits to Research Infrastructures will be organised once per year, in conjunction with physical project meetings.
- Implementation of specific services for newcomer RIs applicants to contribute to the improvement of the quality of submitted proposals. The project will address the main barriers which newcomers, in particular Widening countries applicants, face.
- NCPs will have the opportunity to acquire knowledge via webinars. webinars on open calls and access provision rules will be organized to promote the TA/VA to the relevant stakeholders. Webinars will represent also an important tool for NCPs to work for an oriented international cooperation in RIs.

RICH Europe will also provide services for stakeholders:

- Transnational and Virtual access to Research infrastructures;
- FAQ;
- *A Proposal Check* workshop to support applicants;
- Symposia;
- Infodays;
- Webinars;














RICH Europe is composed by a Consortium of eleven members and an extended network that has reached so far 19 partners.

Consortium:

PARTNER

Italy	Agenzia Per La Promozione Della Ricerca Europea
Armenia	Institute For Informatics And Automation Problems Of The National Academy Of Sciences Of The Republic Of Armenia
Bulgaria	Ministry Of Education And Science
Czech Republic	Technologicke Centrum Akademie Ved Ceske Republiky
Germany	Deutsches Zentrum Fur Luft - Und Raumfahrt Ev
Greece	Idryma Technologias Kai Erevnas - Foundation For Research And Technologyhellas
Malta	Ministry For Education, Sport, Youth, Research And Innovation
Latvia	Latvijas Zinatnes Padome
Poland	Narodowe Centrum Badan I Rozwoju

Extended network (continuously updated):

PARTNER		
	Belgium	F.R.S.-FNRS
	Belgium	hub.brussels
	Croatia	Ministry of Science and Education
	Cyprus	Research and Innovation Foundation
	Czech Republic	Centrum Vedecko-Technických Informací SR
	Faroe Islands	Research Council Faroe Islands
	Georgia	Shota Rzutaveli National Science Foundation of Georgia
	Israel	The Israeli Innovation Authority Organization
	Lithuania	Research Council of Lithuania
	Morocco	Faculty of Science – USMBA
	Portugal	Fundação para a Ciência e a Tecnologia
	The Netherlands	The Netherlands Enterprise Agency Prinses
	Turkey	The Scientific and Technological Research Council of Turkey

You can get more information and contact visiting the project website where you can find all the relevant sections. Here the link: <https://rich-europe.eu/>

7th step – How RICH Europe can help you?

RICH Europe pays particular attention to the RIs beginners NCPs. The critical role of the National Contact Points ensuring that clients have the right information they need to make a meaningful decision about proposal preparation and project management and implementation in the framework of Horizon Europe Programme. The more experienced NCP can help and support the less experienced NCPs or “beginners” to take the first steps into the world of Horizon Europe Research Infrastructures Work Programmes. RICH Europe has different tools and services aimed directly to the less experience NCPs, specifically:

A Welcome video will be made to briefly introduce the services that the Less Experienced or Newly Appointed RI NCPs RI NCPs could access.

A Digital guide for beginners on RI programme and ecosystem will be developed and updated (first edition 2022, update in 2026). The guide will facilitate the delivery and adoption of the RI services at national and

institutional level. More specifically, RICH-Europe will produce leaflet and a presentation to the present RI programme.

Online trainings on RIs ecosystem will be available in the shared space and integrated in the “Roadmap for beginners”. The ecosystem will provide a training material for those seeking help to get familiar with RIs ecosystems.

A permanent Working group “Share&Learn RIs” for Less Experienced or Newly Appointed RI NCPs will be set up to get them overcome the feeling of bewilderment and offering a space where they can discuss with NCPs with their same level of knowledge and experience. The working group will meet twice per year and will discuss challenges they face while working on the RI programme as NCPs, exchanging possible solutions, and receiving advices from experienced NCPs on specific topics.

8th step – Useful Videos

Research Infrastructures: The engine of the European Research Area	https://www.youtube.com/watch?v=lcouwFzQAlo
20 years of European Research Infrastructures ESFRI 20th Anniversary Conference 25.03.22	https://www.youtube.com/watch?v=W0B9PBHI7IU
ESFRI Kick-off Workshop on Monitoring of Landmarks	https://www.youtube.com/watch?v=l5pf4I5sTxo
Opening & Welcome 1st ESFRI Stakeholders Forum Meetup	https://www.youtube.com/watch?v=ocz5Ze6vgWs
Plenary 1: Meeting stakeholder needs 1st ESFRI Stakeholders Forum Meetup - 15.9.22 Brussels	https://www.youtube.com/watch?v=GTzMp6mGAqw
Plenary 2: Parallel sessions feedback 1st ESFRI Stakeholders Forum Meetup - 15.9.22	https://www.youtube.com/watch?v=uJ3yZTs-9ZA
Plenary 3: How to foster collaboration 1st ESFRI Stakeholders Forum Meetup 15.9.22	https://www.youtube.com/watch?v=WEH8u2vRvBE