



<http://www.rich2020.eu/>

MONIQUE BOSSI  
NCP Research Infrastructures for Horizon 2020  
(APRE)

**Free Access to Research  
Infrastructures**

# Trans-national Access (TNA)

(to researchers or group of researchers)



- Do you want to run experiments in the best European laboratories?
- Are you interested in making analyses using the best research equipment?
- Do you care about accurate measurements?



- Are you looking for access to unique collections of specimens or documents?
- Do you wish to take part in a research vessel expedition?





# Our plan for the next hour

- ✓ **Research Infrastructures and Horizon 2020**
- ✓ **Transnational Acces Opportunities (TNA)**
- ✓ **Square Kilomenter Array – an insight**



# Research Infrastructures and Horizon 2020



- **Intergovernmental Research Infrastructures.** Well established Research Infrastructures supported by the Member States.
- **New Pan-European Research Infrastructures.** Research Infrastructures identified on the roadmap of the European Strategy Forum on Research Infrastructures (**ESFRI**).
- **National Research Infrastructures.** Several networks of national and regional Research Infrastructures open to all European researcher from both academia and industry are promoted by the European Commission through "**Integrating Activity**" projects.

## EU approach for Research Infrastructures

Research infrastructures are the backbone of modern scientific and technological systems and are therefore instrumental in increasing the competitiveness of European research.

Budget: 2.4B€



<b>Excellent Science</b>	<b>Industrial Leadership</b>	<b>Societal Challenges</b>
<ul style="list-style-type: none"> <li>▪ <b>European Research Council</b> <ul style="list-style-type: none"> <li>▪ Frontier research by the best individual teams</li> </ul> </li> <li>▪ <b>Future and Emerging Technologies</b> <ul style="list-style-type: none"> <li>▪ Collaborative research to open new fields of innovation</li> </ul> </li> <li>▪ <b>Marie Skłodowska Curie actions</b> <ul style="list-style-type: none"> <li>▪ Opportunities for training and career development</li> </ul> </li> <li>▪ <b>Research infrastructures (including e-infrastructure)</b> <ul style="list-style-type: none"> <li>▪ Ensuring access to world-class facilities</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>Leadership in enabling and industrial technologies</b> <ul style="list-style-type: none"> <li>▪ ICT, nanotechnologies, materials, biotechnology, manufacturing, space</li> </ul> </li> <li>▪ <b>Access to risk finance</b> <ul style="list-style-type: none"> <li>▪ Leveraging private finance and venture capital for research and innovation</li> </ul> </li> <li>▪ <b>Innovation in SMEs</b> <ul style="list-style-type: none"> <li>▪ Fostering all forms of innovation in all types of SMEs</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Health, demographic change and wellbeing</li> <li>▪ Food security, sustainable agriculture, marine and maritime research &amp; the bioeconomy</li> <li>▪ Secure, clean and efficient energy</li> <li>▪ Smart, green and integrated transport</li> <li>▪ Climate action, environment resource efficiency and raw materials</li> <li>▪ Inclusive, innovative and reflective societies</li> <li>▪ Security society</li> </ul>



**Building RIs\***

**Collaborative  
Research**

**Purchasing Inst.  
Modernizing RIs**

**Access to national  
facilities**



2015-06-09 11:45:55 ELI ze sila smer HILASE  
Real-time ELI building :  
[www.elibeams.eu/about/building](http://www.elibeams.eu/about/building)



New PUMA synchrotron beamline. Courtesy of  
Synchrotron SOLEIL



Towards a Material History of the Ghent Altarpiece.  
Courtesy of University of Perugia

**INELIGIBLE**



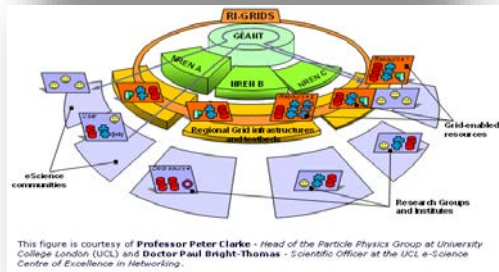
## Horizon 2020 Work Programme for European Research Infrastructures (including e- Infrastructures)

1. Development and long-term sustainability of new pan-European research infrastructures
2. Integrating and opening research infrastructures of European interest
3. E-Infrastructures
4. Innovation in RIs
5. Support measures (international cooperation, studies, NCPs...)

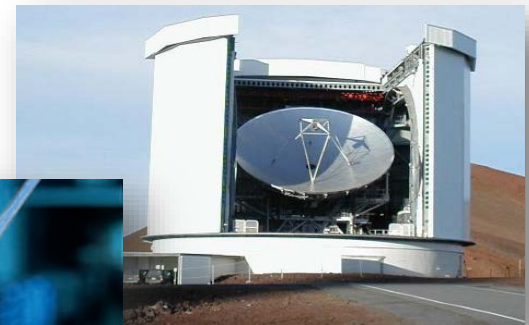
Facilities, resources and services used by the scientific community for conducting research and innovation in their fields.

...essential to achieve excellence in research and innovation

They can be “Single-sited”, “distributed” or “virtual” and, when relevant, may be used beyond research



e-infrastructures



Knowledge-based resources

Major scientific equipments





All H2020 Societal Challenges encourages the **use of existing research infrastructures** (including e-infrastructures), when appropriate.

- Participation in projects
- LRI



Projects submitting a **Data Management Plan** are invited to identify the existing European research **data infrastructures** that may be used and how these may be mobilised, in particular for long-term data curation and preservation (e.g. OpenAIRE, European Open Science Cloud...)

**E-INFRASTRUCTURES:**  
**MAKING EUROPE THE BEST PLACE**  
**FOR RESEARCH AND INNOVATION**



**Digital infrastructures are the virtual backbone of European research and a vital driver for innovation.**

Without them there would be:

- \* no sharing of data
- \* no exchange of know-how
- \* no collaboration.

**EU-funded e-infrastructures address the needs of European researchers and innovators:**

- \* for transnational comm. networks
- \* high perf.ce and high throughput comput
- \* multidisciplinary data management
- \* collaborative scientific software

**European Open Science Cloud  
(EOSC)**

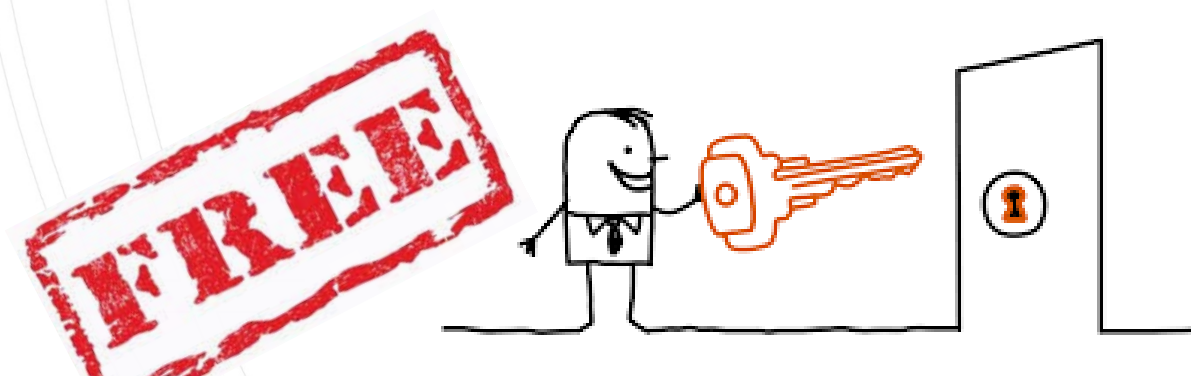


# **Transnational Access Opportunities and Services - TAS**

# What is the Transnational Access (TNA)?

Transnational Access (TNA) is a fundamental part of the actions of the Research Infrastructures programme through successive Framework Programmes.

**'free of charge'** provision of **access** to a **research infrastructure** (operated by one of the beneficiaries of a INFRAIA project) to **selected** researchers or research teams usually working in a country other than the country where the RI is located





1. Trans-national Access (TA)
2. Virtual Access (VA)



'free of charge' provision of access to a **research infrastructure** to *selected* researchers or research teams usually working in a country other than the country where the RI is located.

TA can be:

- **in person ('hands-on')**, to users visiting the infrastructure,  
*e.g. access to a research vessel, or*
- **remote scientific services**, no visit needed,  
*e.g. performance of sample analysis*



# Trans-national Access eligibility conditions

- ✓ **user group is eligible** for TA support under the grant when the **user group leader and the majority of users work in countries different from where the installation is located**
  - *This condition is **not necessary** when:*
    - *The access provider is an International organisation, the JRC, an ERIC or other similar legal entities representing different countries*
    - *in case of remote access to a set of installations offering the same type of service and located in different countries*
- ✓ **Only user groups that will disseminate the results they generate under the project are eligible, unless users work for SMEs**
- ✓ **Access for user groups with a majority of users working in third countries is limited to 20% of the total amount of units of access provided under the grant,**



## Transnational Access (TA): "Access provider" Obligations

- ✓ to **publicise widely the access offered** under the grant agreement and the modalities to apply
- ✓ to take into account the **gender dimension** in advertising the access and defining the support provided to users
- ✓ to **set up an independent selection panel** to select the users to be supported
- ✓ to maintain & provide to **EC appropriate documentation**
- ✓ to **support and justify** the amount of access reported
- ✓ (*name, nationality and affiliation of users; nature and quantity of access provided to user teams, selection panel members & selection procedure*)

'Free of charge' provision of access to **widely used resources** needed for research that are **openly and freely available through communication networks**

- ✓ **No** need for a competitive **selection** of users
- ✓ **No** need to set up a **selection panel**
- ✓ **No** need to **identify** users either.  
However identification is possible when access provision is subject to specific requirements such as registration, authentication and/or authorisation of users (*e.g. for access to sensitive data*)
- ✓ **No** need for users to **visit** the infrastructure to get access

- ✓ Do you need sophisticated computer services?
- ✓ Are you interested in access to powerful computers, networks, grids, repositories, databanks?
- ✓ Do you have needs for safely storing large quantities of scientific data?
- ✓ Do you want to be a part of networked research communities that share computing platforms and advanced applications running next generation protocols?
- ✓ Do you wish to work in the frame of world-class operational communication and computing infrastructure to facilitate scientific research?



- ✓ **publicise widely** the access offered
- ✓ set up an **external board** to periodically assess the services offered, as only virtual services widely used by the community of European researchers will be supported. The assessment report must be provided to the EC;
- ✓ provide to the EC **statistics on the access offered** during the project, e.g. quantity, geographical distribution of users and, when possible, information/statistics on scientific outcomes acknowledging the use of the infrastructure (*publications, patents, etc*)

1. **European Commission webpage**: Listed by scientific domain, Transnational Access networks funded by the infrastructure program:  
[http://ec.europa.eu/research/infrastructures/index\\_en.cfm?pg=riprojects#top](http://ec.europa.eu/research/infrastructures/index_en.cfm?pg=riprojects#top)
2. **RICH Project website** (RIs NCP's network):  
<http://www.rich2020.eu/>



## Transnational Access & Services calls

- Do you want to run experiments in the best European laboratories? Are you interested in making analyses using the best research equipment?
- Do you care about accurate measurements? Are you looking for access to unique collections of specimens or documents? Do you wish to take part in a research vessel expedition?

This section provides information on transnational access opportunities by EU projects. Some projects periodically announce calls, others apply a continuous application process. Apart from the costs of research itself, travel, accommodation and subsistence costs may be reimbursed. Just respond to a call for proposals at the project website of your interest.

The calls for e-Infrastructures address needs for:

- **Sophisticated computer services: Access to powerful computers, networks, grids, repositories, databanks; Safely storing large c**
- **Participation in networked rese**
- **Work in the frame of world clas**

- Any
- e-Infrastructures
- Energy
- Engineering and Energy
- Environment and Earth Sciences
- Life sciences
- Material Sciences & Analytical Facilities
- Mathematics and Computer Sciences
- Physics and Astronomy
- Social Sciences and Humanities

Project Acronym

Any

Any

### List of Services

- H2020 Calls information
- Transnational Access & Services calls**
- Learning about RIs
- Frequently Asked Questions
- Promoting RIs
- International Cooperation on RIs
- Linking with other programmes



# A typical example....

6 RESULTS

**EuHIT | European High-performance Infrastructures In Turbulence | Material Sciences & Analytical Facilities**

#### Transnational Access Info:

EuHIT is an international scientific mobility programme for researchers engaged in the **turbulence research** which provides free transnational access to cutting-edge European facilities and scientific support of 21 partners representing both academia and industry.

TurBase is an easily accessible knowledge-base infrastructure for high quality turbulence data. It provides easy access to experimental and numerical data, as well as data derived from theoretical models, promoting at the same time the use and the deployment of standards. It efficiently curates, preserves and provides access to the data and metadata collected or produced by EuHIT in particular and the turbulence community in general.

**More info on the project:** <http://www.euhit.org/>

**More info on the access:** <http://www.euhit.org/transnational-access/call-schedule>

**More info on the virtual access:** <https://www.euhit.org/infrastructures/turbbase-knowledge-base/service>

**LASERLAB-EUROPE | The Integrated Initiative of European Laser Research Infrastructures | Material Sciences & Analytical Facilities**

#### Transnational Access Info:

Laserlab-Europe offers transnational access to top-quality laser research facilities in a highly co-ordinated fashion for the benefit of the European research community.

**Proposals are accepted at any time with the exception of some facilities with specific deadlines (see website)**

**Deadline:** 15/12/2016

**More info on the project:** <http://www.laserlab-europe.net/>

**More info on the access:** <http://www.laserlab-europe.net/transnational-access>

**ASCENT | Access to European Nanoelectronics Network | Material Sciences & Analytical Facilities**

#### Transnational Access Info:

ASCENT provides access to the world's most advanced 14 nm and beyond-CMOS nanoelectronics data and test structures in Europe's leading nanofabrication research institutes. The institutes involved have extensive advanced semiconductor processing/fabrication facilities, flexible nanofabrication facilities, advanced electrical characterization equipment and expertise in atomistic and TCAD modeling.

ASCENT gives access to the following data for registered users:

- Process design kits (PDK) for partners technology
- Transistor and test structure specifications
- Electrical characterisation data
- Characterisation and test data provided by ASCENT users

#### Continuous call.

ASCENT is launching a call for proposals targeted at researchers looking for Nanoscale Test Chips. During the next 2 months priority will be given to researchers interested in access to Nanoscale Test Chips. Priority Call -

**Deadline:** 28<sup>th</sup> February 2017. **More info:** <http://www.ascent.network/access/how-to/>

**Deadline:** 28/02/2017

**More info on the project:** <http://www.ascent.network/>

**NFFA-Europe | Nanoscience Foundries & Fine Analysis | Material Sciences & Analytical Facilities**

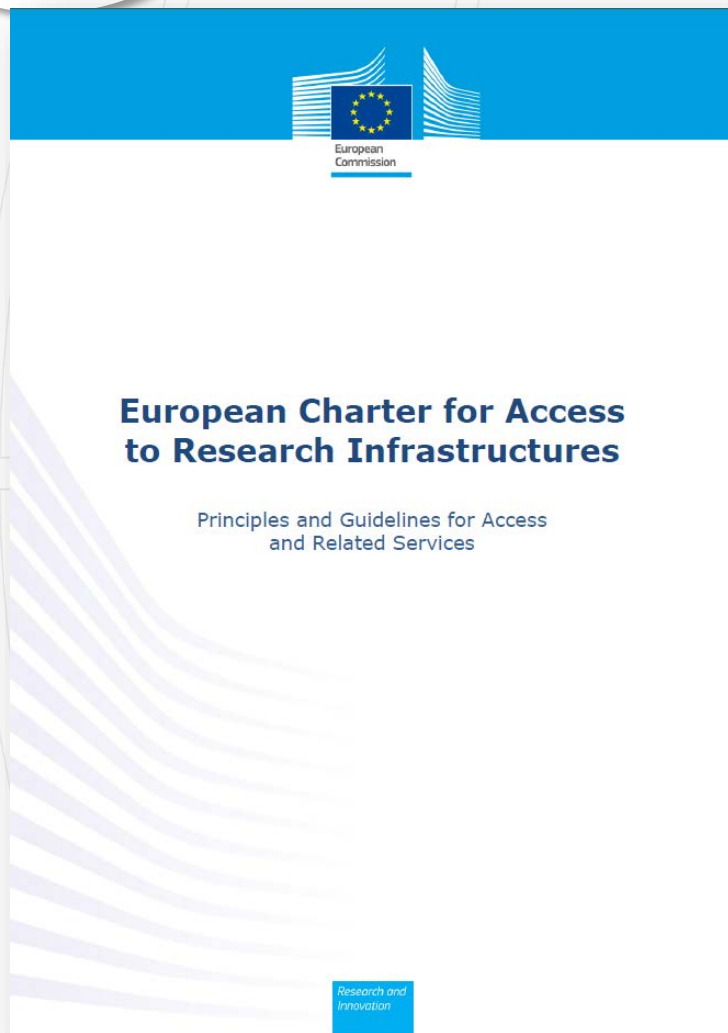
#### Transnational Access Info:

NFFA-EUROPE provides free access to state-of-the-art tools for multidisciplinary, frontier research at the nanoscale: available techniques range from nanocharacterization to theory and numerical simulation.

Advanced infrastructures for growth, nano-lithography, nano-characterization, theory and simulation and fine-

The screenshot shows the EuHIT website interface. The header includes the EuHIT logo and the text "European High-Performance Infrastructures in Turbulence". A navigation bar contains icons for "About EuHIT", "Research Infrastructures", "Transnational Access", "Projects", "Community", "Publications", "Contact", and "Search". The "Transnational Access" menu is open, showing a list of options: "Overview", "How to apply", "Documents and forms", "Questions & answers", "Proposal evaluation", and "Call schedule". The "Call schedule" option is highlighted with a red circle. Below the navigation bar, the "Call schedule" section is visible, listing various calls with their dates and links to "Accepted proposals" and "Statistics".

Call Name	Period	Accepted proposals	Statistics
Fourteenth Call	1 October 2016 – 1 November 2016	<a href="#">Accepted proposals</a>	<a href="#">Statistics</a>
Thirteenth Call	27 June 2016 – 30 August 2016	<a href="#">Accepted proposals</a>	<a href="#">Statistics</a>
Twelfth Call	2 May 2016 – 1 June 2016	<a href="#">Accepted proposals</a>	<a href="#">Statistics</a>
Eleventh Call	1 February 2016 – 6 March 2016	<a href="#">Accepted proposals</a>	<a href="#">Statistics</a>
Tenth call	4 October 2015 – 2 November 2015	<a href="#">Accepted proposals</a>	<a href="#">Statistics</a>
Ninth call	5 July 2015 – 2 August 2015	<a href="#">Accepted proposals</a>	<a href="#">Statistics</a>



## The Charter

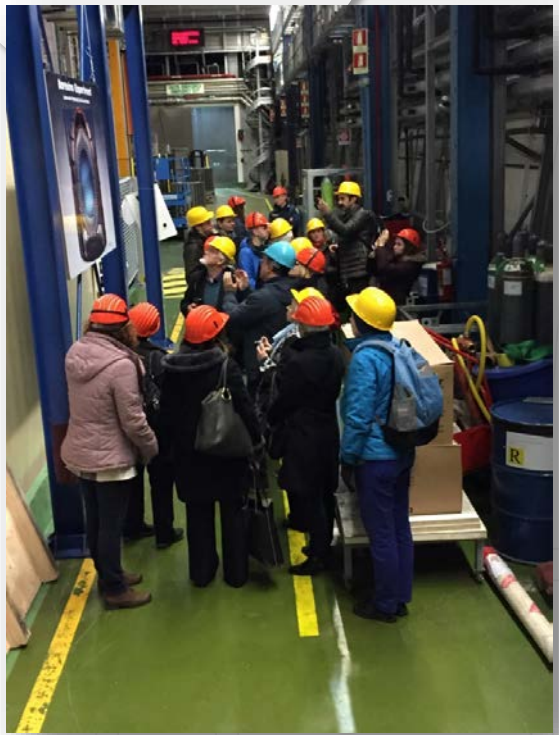
***"sets out non-regulatory principles and guidelines to be used as a reference when defining Access policies for Research Infrastructures and related services"***

**Charter for Access to Research Infrastructures.  
Section 1 - Purpose**





# RICH: Research Infrastructures Consortium for H2020

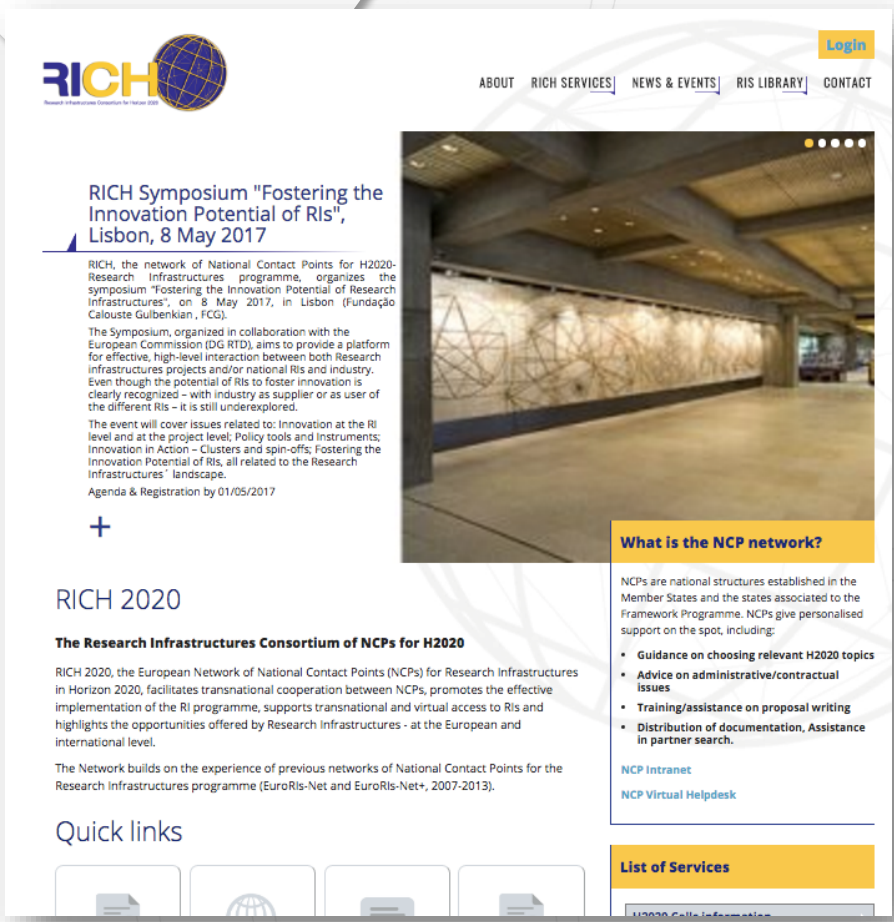




Facilitate trans-national **co-operation** between NCPs for research infrastructures with a view to identifying and **sharing good practices** and **raising** the general **standard** of support to programme applicants, taking into account the **diversity of actors** that make up the constituency of the Research Infrastructures Part.

## Scope

- Promotion of trans-national and virtual access,
- Synergies with other NCPs networks,
- Cooperation with other policy and international cooperation oriented measures for research infrastructures
- Build on the past experience and achievements gained in EuroRis-Net+ project.



**RICH** Symposium "Fostering the Innovation Potential of RIs", Lisbon, 8 May 2017

RICH, the network of National Contact Points for H2020-Research Infrastructures programme, organizes the symposium "Fostering the Innovation Potential of Research Infrastructures", on 8 May 2017, in Lisbon (Fundação Calouste Gulbenkian, FCG).

The Symposium, organized in collaboration with the European Commission (DG RTD), aims to provide a platform for effective, high-level interaction between both Research infrastructures projects and/or national RIs and industry. Even though the potential of RIs to foster innovation is clearly recognized - with industry as supplier or as user of the different RIs - it is still underexplored.

The event will cover issues related to: Innovation at the RI level and at the project level; Policy tools and instruments; Innovation in Action - Clusters and spin-offs; Fostering the Innovation Potential of RIs, all related to the Research Infrastructures' landscape.

Agenda & Registration by 01/05/2017

**+**

**RICH 2020**

**The Research Infrastructures Consortium of NCPs for H2020**

RICH 2020, the European Network of National Contact Points (NCPs) for Research Infrastructures in Horizon 2020, facilitates transnational cooperation between NCPs, promotes the effective implementation of the RI programme, supports transnational and virtual access to RIs and highlights the opportunities offered by Research Infrastructures - at the European and international level.

The Network builds on the experience of previous networks of National Contact Points for the Research Infrastructures programme (EuroRIs-Net and EuroRIs-Net+, 2007-2013).

**Quick links**

**What is the NCP network?**

NCPs are national structures established in the Member States and the states associated to the Framework Programme. NCPs give personalised support on the spot, including:

- Guidance on choosing relevant H2020 topics
- Advice on administrative/contractual issues
- Training/assistance on proposal writing
- Distribution of documentation, Assistance in partner search.

[NCP Intranet](#)  
[NCP Virtual Helpdesk](#)

**List of Services**

H2020 Calls Information

## RICH Symposium "Fostering the Innovation Potential of RIs", Lisbon, 8 May 2017!

## Registration is still open

[@RICHncps](https://twitter.com/RICHncps)

<http://www.rich2020.eu/>



**Make your clients RICHER,  
Offer them a free access to  
Research Infrastructures!**

