



European Strategy Forum
on Research Infrastructures



StRESFRI₂

ESFRI Workshop on the Future of Research Infrastructures in the European Research Area

6-8 November 2019

La Palma, Spain

With the next Roadmap of European Research Infrastructures, foreseen for publication in 2021, ESFRI will end the second cycle of its Roadmaps, comprising the editions of 2006, 2008, 2010, 2016 and 2018. The last two editions have demonstrated clearly how the landscape of research infrastructures in Europe has evolved and matured.

As demonstrated through the work on long-term sustainability of research infrastructures over the last three years, the facilities that have now become operational face very different challenges to the ones early in their lifecycle.

Recognising the nature of these challenges and responding to the invitation of the Competitiveness Council to strengthen its strategic role¹, ESFRI started a comprehensive reflection process on the role of research infrastructures and ESFRI itself in the evolving European Research Area.

The objective of this workshop is to discuss with the research infrastructures, thematic clusters and other stakeholders a number of key topics that emerged through this process in a view of preparing a formal ESFRI document in December 2019.

Programme

6 November 2019	
9:00-9:20	<p>Welcome – context, scope and objectives of the Workshop</p> <p>Jan Hrusak, ESFRI Chair</p>
9:20-10:20	<p>Session 1. The role of Research Infrastructures and ESFRI in EOSC – Part 1</p> <p><u>Chair: Mirjam Van Daalen</u></p> <p><i>This session will take stock of the current state of implementation of the EOSC and the links of Research Infrastructures with this process. Ongoing activities will be discussed, and the remaining challenges explored. The discussion will in particular focus on how ESFRI follows up the EOSC development and how it can contribute to its ongoing or future activities. ESFRI EOSC Task Force as an important advisory tool will have a central role in the discussion, and in the preparation of a future oriented ESFRI position related to EOSC. The importance of ESFRI RI clusters, their approaches and their achievements related to EOSC implementation will flow into the debate. An important issue will be communication to the different EOSC bodies,</i></p>

¹ Competitiveness Council conclusion on Governance of the European Research Area of 30 November 2019, point 7.

	<p><i>and the question how to effectively spread ESFRI inputs to the EOSC activities to create biggest impact on its implementation. The event will also offer an opportunity to consider new topics for a potential dedicated ESFRI Exchange of Experience workshop on related matters.</i></p> <p><u>Introduction – 15'</u> Mirjam van Daalen, Chair of ESFRI Task Force on EOSC</p> <p><u>Interplay of horizontal e-Infrastructures and thematic RIs – 15'</u> Ludek Matyska, Director, Institute of Computer Science, Masaryk University</p> <p><u>The e-IRG National Nodes Paper – 15'</u> Sverker Holmgren, Uppsala University, Swedish Delegate to e-IRG</p> <p><u>Getting ready for EOSC: a research infrastructure perspective – 15'</u> Nicholas Pade, Executive Director, EMBRC ERIC</p>
10:20-10:50	Coffee break
10:50-12:30	<p>Session 1. The role of Research Infrastructures and ESFRI in EOSC – Part 2</p> <p><u>Round table discussions – 60'</u></p> <ol style="list-style-type: none"> 1) What is the EOSC according to you as a user and/or provider? 2) Which benefits should EOSC bring for the users? 3) Which kind of EOSC users would you define? 4) For EOSC there needs to be a change of culture to open research data according to the FAIR data principles: how can we tackle this? 5) Which topics do you see as important for a potential dedicated ESFRI exchange of experience workshop on EOSC? <p><u>Feedback from the tables – 20'</u> Table Rapporteurs</p> <p><u>Wrap-up panel: Key messages – 20'</u> Session Chair and Speakers</p>
12:30-13:30	Lunch
13:30-19:30	Visit to Roque de los Muchachos Observatory
7 November 2019	
9:00-9:30	<p>Welcome to Day 2</p> <p><u>Welcome by the Spanish Authorities – 10'</u></p>

	<p><u>Presentation of Instituto de Astrofísica de Canarias</u> – 10’ Rafael Rebolo López, IAC Director</p> <p><u>Future European research and innovation agenda</u> – 10’ Adam Tyson, Head of Unit for Research and Industrial Infrastructures, European Commission</p>
9:30-11:10	<p>Session 2. Consolidation of the Research Infrastructure landscape – how to make the most impact</p> <p><u>Chair: Gelsomina Pappalardo</u></p> <p><i>The landscape of Research Infrastructures is more and more mature, developed and interconnected, equipping European scientists with state-of-the-art facilities to conduct world-class research and foster innovation. This session will discuss how to foster a more integrated, ecosystem approach in order to enable the RIs to help effectively address the common challenges that Europe is facing and which increasingly require a multidimensional approach.</i></p> <p><u>Introduction</u> – 4’ Gelsomina Pappalardo, ESFRI Executive Board Member</p> <p><u>Landscape of the European Research Infrastructures</u> – 7’ Jose Luis Martinez, Chair of ESFRI Strategy Working Group on Physical Sciences and Engineering</p> <p><u>Joint activities across RIs: opportunities and challenges</u> – 7’ Rory Fitzgerald, Director, European Social Survey ERIC</p> <p><u>Consolidation initiatives among European RIs</u> – 7’ Francesco Floridi, Strategy & Partnership Manager, BBMRI ERIC</p> <p><u>Round table discussions</u> – 45’</p> <ol style="list-style-type: none"> 1) ESFRI role as incubator across the RI lifecycle – how can it be improved? 2) How to foster interconnections among the RIs, within a single scientific domain and across different scientific domains, for supporting interdisciplinary and multidisciplinary research for new research frontiers? 3) What relationship should ESFRI have with sectorial initiatives, international networks, other RIs not included in the ESFRI Roadmap as well as with national and regional RIs? <p><u>Feedback from the tables</u> – 20’ Table Rapporteurs</p> <p><u>Wrap-up panel: Key messages</u> – 10’ Session Chair and Speakers</p>
11:10-11:40	Coffee break

11:40-13:20

Session 3. Fostering effective open access to Research Infrastructures

Chair: Yannis Ioannidis

One of the key elements in fostering scientific excellence in Europe is ensuring that researchers, wherever they are, have the possibility to access facilities, resources and services of the first class European Research Infrastructures, suitable to their needs. This session will discuss the current access practices, funding models, challenges and bottlenecks across the different scientific domains and explore effective ways to make further progress in this area. The reflection on the [European Charter for Access to Research Infrastructures](#) and possible improvements to this document will be part of the discussion.

Introduction – 4'

Yannis Ioannidis, ESFRI Vice-Chair

Access to Research Infrastructures : Finances – 7'

Jose Luis Martinez, Chair of ESFRI Strategy Working Group on Physical Sciences and Engineering

Access to Research Infrastructures : Services – 7'

Martin Van Breukelen, Executive Manager, European Magnetic Field Laboratory

Access to Research Infrastructures : Operations – 7'

Christine Kubiak, Operations Director, ECRIN ERIC

Round table discussions – 45'

- 1) What are the current (transnational) access models/policies used for members of ESFRI RIs? What are their key weaknesses with respect to ensuring effective access? Are there any differences across RIs in different scientific domains?
- 2) Are there any specific transnational member access models/policies for distributed ESFRI RIs or any specific challenges they face in offering such access?
- 3) What are the main funding models used for ESFRI RI member access and what are their key weaknesses? Are there any differences across RIs in different scientific domains?
- 4) Are there any specific funding models for member access to distributed ESFRI RIs and what are their key weaknesses?
- 5) What are the current (transnational) access models/policies and corresponding funding models used for non-members of ESFRI RIs, in general, and of distributed RIs, in particular? What are their key weaknesses with respect to ensuring effective access? Are there any differences across RIs in different scientific domains?
- 6) Each ESFRI RI has a different country geometry, inevitably, scientists from several countries do not have member access privileges. Should a pan-

	<p>European RI access “market” be developed (in the context of a renewed ERA), with access policies and funding models complementary to those of individual ESFRI RIs?</p> <p><u>Feedback from the tables – 20’</u> Table Rapporteurs</p> <p><u>Wrap-up panel: Key messages – 10’</u> Session Chair and Speakers</p>
<p>13:20-14:30</p>	<p>Lunch</p>
<p>14:30-16:15</p>	<p>Session 4. ESFRI framework for monitoring of Research Infrastructure performance</p> <p><u>Chair: Peter Wenzel-Constabel</u></p> <p><i>ESFRI Working Group has been established to propose a methodology to monitor the performance of RIs based on KPIs, taking into account the diversity of RIs and the aim that they will be adopted widely and effectively. This session will present the methodology for a final discussion and will explore the ways to foster its uptake by RIs, funding authorities and stakeholders.</i></p> <p><u>Introduction – 5’</u> Peter Wenzel-Constabel, ESFRI Executive Board Member</p> <p><u>ESFRI RI monitoring framework – 10’</u> Jana Kolar, Member of ESFRI WG on Monitoring</p> <p><u>RI perspective on performance monitoring – 15’</u> Werner Kutsch, Director General, ICOS ERIC Ute Gunsenheimer, Head of External Relations and EU Projects, European Spallation Source ERIC</p> <p><u>Round table discussions – 45’</u></p> <ol style="list-style-type: none"> 1) What roles do you see for the ESFRI RIs, national funders and ESFRI (Strategic Working Groups, EB, Forum) in the dialogue process on the definition of specific objectives and indicators and in the further process of implementation and "monitoring the monitoring system"? 2) What do you regard as the main obstacles in implementing such an approach, are there major obstacles for the acceptance of such an approach by the RIs? 3) Are there any recommendations missing that would increase usefulness and acceptance of such an approach; taking into account the diversity of RIs? <p><u>Feedback from the tables – 20’</u> Table Rapporteurs</p> <p><u>Wrap-up panel: Key messages – 10’</u> Session Chair and Speakers</p>

16:15-16:45	Coffee break
16:45-18:30	<p>Session 5. National RI Roadmaps and funding models – improving synergies with European priorities and programmes</p> <p><u>Chair: Agnieszka Zalewska</u></p> <p><i>Greater synergies between national RI Roadmaps and funding decisions with the European priorities and funding programmes are needed to foster a more effective implementation of the RIs across their lifecycle and improve their long-term sustainability. This session will take a look at InRoad recommendations and debate the different funding practices for RIs identified on national roadmaps and will explore how to improve their synergies with the European programmes foreseen under the new MFF.</i></p> <p><u>Introduction – 5'</u> Agnieszka Zalewska, ESFRI Executive Board Member</p> <p><u>National RI Roadmaps and funding models: InRoad recommendations – 10'</u> Gerd Ruecker, Senior Scientific Officer, DLR-PT</p> <p><u>National RI Roadmaps and funding models: practical experiences – 10'</u> Jeannette Ridder, Chair of ESFRI Implementation Group</p> <p><u>Round table discussions – 45'</u></p> <ol style="list-style-type: none"> 1) Which practices in your national road-mapping and funding procedures would you recommend to other countries for improving synergies with European priorities and programmes? Are there examples when your national procedures have been adapted to better align with the ESFRI roadmap process? 2) What lessons did you learn for areas that didn't work so well in your national road-mapping and funding procedures for building synergies with European priorities and programmes and/or to align with the ESFRI roadmap process? 3) What improvements in the national road-mapping and funding procedures would be most welcome from the RIs point of view to improve their functioning and long-term sustainability? 4) What improvements in the ESFRI road-mapping procedures would be most welcome from the decision makers' and RIs' points of view? <p><u>Feedback from the tables – 20'</u> Table Rapporteurs</p> <p><u>Wrap-up panel: Key messages – 10'</u> Session Chair and Speakers</p>
8 November 2019	

<p>9:00-9:15</p>	<p>Welcome to Day 3 Jan Hrusak, ESFRI Chair</p>
<p>9:15-10:45</p>	<p>Session 6. Research Infrastructures in the evolving European Research Area: the role of ESFRI – Part 1 <i>Chair: Inmaculada Figueroa</i></p> <p><i>Research Infrastructures play a crucial role for the excellence and competitiveness of the European Research Area. This session will take stock of the ongoing discussions on the future of ERA and will explore how to reinforce ESFRI and the European RIs to help make ERA stronger and more successful.</i></p> <p><u><i>Future of the European Research Area – 15'</i></u> Inmaculada Figueroa, ESFRI Vice-Chair</p> <p><u><i>Improving implementation of Research Infrastructures – 15'</i></u> Giorgio Rossi, Chair of European Commission High-level Expert Group on Research Infrastructures</p> <p><u><i>Round table discussions – 30'</i></u></p> <ol style="list-style-type: none"> 1) How RIs can contribute to the strengthening of ERA? What is the role ESFRI must play in the new ERA narrative? 2) How could ESFRI and the EC work better together to facilitate the implementation of RIs? 3) How to foster stronger collaboration of European RIs with those at national and regional level? <p><u><i>Feedback from the tables – 20'</i></u> Table Rapporteurs</p> <p><u><i>Wrap-up panel: Key messages – 10'</i></u> Session Chair and Speakers</p>
<p>10:45-11:15</p>	<p>Coffee break</p>
<p>11:15-12:40</p>	<p>Session 6. Research Infrastructures in the evolving European Research Area: the role of ESFRI – Part 2</p> <p><u><i>Future of Research Infrastructures and ESFRI – 15'</i></u> Jan Hrusak, ESFRI Chair</p> <p><u><i>Panel 1 – Strategic Orientations – 30'</i></u></p> <ol style="list-style-type: none"> 1) RIs as knowledge hubs and pillars of competitiveness – Jana Kolar, Executive Director, CERIC-ERIC

	<p>2) RIs responsiveness to the society & contribution to the Sustainable Development Goals – Juan José Dañobeitia Canales, Director General, EMSO ERIC</p> <p>3) Global dimension: Global Research Infrastructures, internationalization, membership widening to third countries – Andrew Williams, Institutional Relations Officer, European Southern Observatory</p> <p><i>Panel 2 – RIs as part of the EU Research & Innovation environment – 30'</i></p> <p>1) RIs role in support of Horizon Europe Missions & Clusters – Christos Arvanitidis, Chief Executive Officer, LIFEWATCH ERIC</p> <p>2) RIs contributing to the EU big initiatives & policies: the case of Energy – Jose María Los Arcos, CIEMAT</p> <p>3) RIs and HR training, skills and links with higher education – Caterina Petrillo, ESFRI Delegate</p> <p><i>Wrap-up: Key messages – 10'</i> Session Chair</p>
<p>12:40-13:00</p>	<p>Workshop Conclusions</p> <p>Adam Tyson, Head of Unit for Research and Industrial Infrastructures, European Commission</p> <p>Jan Hrusak, ESFRI Chair</p>