

Long-term sustainability of research infrastructures

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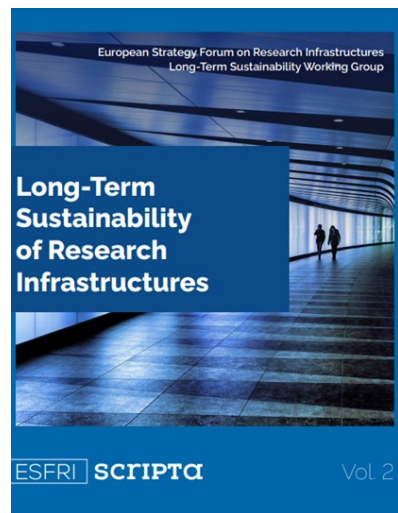


ET-PP Project GA 101079696



provide evidence-based policy advice

OECD – Organization for economic cooperation and development - <https://www.oecd.org>



optimise the organization of the RI landscape in the European Research Area

ESFRI- European Strategy Forum for Research Infrastructures- <https://www.esfri.eu/forum>



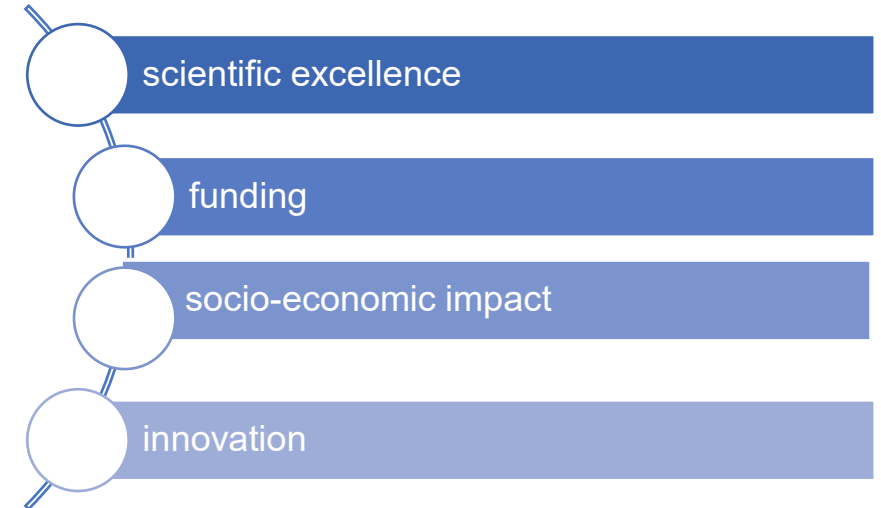
... and implement a sustainable RI ecosystem in Europe

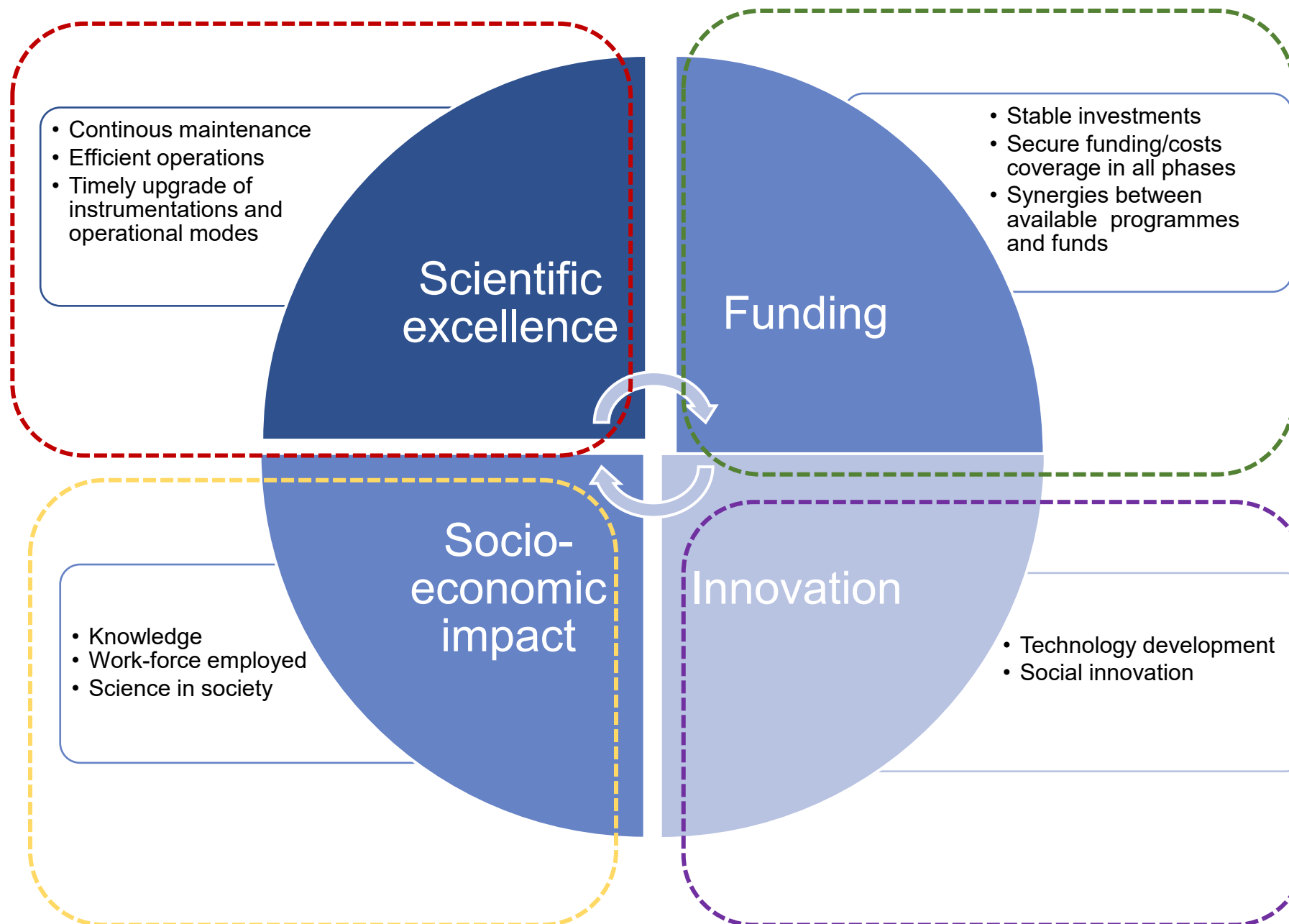
RIs Long-Term Sustainability



*Research Infrastructures (RIs)
long-term sustainability (LTS)*

*capacity to remain operative,
effective and competitive*

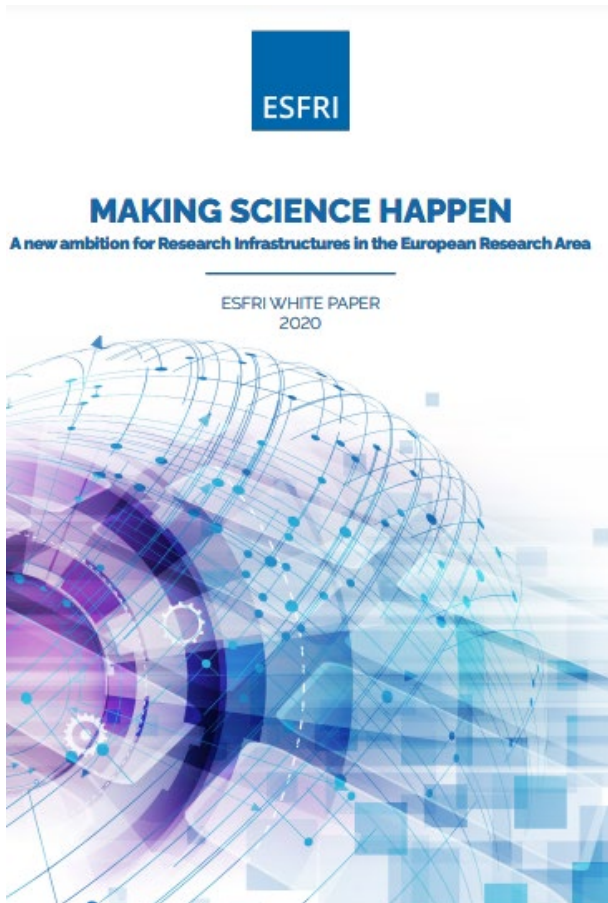




Long-Term Sustainability of Research Infrastructures

MAIN RECOMMENDATIONS

- 1 Establish and maintain excellence** through the entire lifecycle of RIs by all appropriate means, by securing adequate framework conditions, and by opening the RIs up to the world.
- 2 Ensure that RIs have the right people in the right place at the right time** by strengthening and harmonising national research and educational systems to make sure that all essential skills are available.
- Harmonise and **integrate a vision for convergent operation of RIs and e-Infrastructures** in Europe to ensure cost-effective service provision to the user communities.
- 4 Fully exploit the potential of RIs as innovation hubs** by incorporating strategies for their development into national and European innovation policies.
- Set up effective means of **determining the economic and wider social value of RIs**, and incorporate these benefits into science-policy-society dialogues.
- Establish adequate framework conditions **for effective governance and sustainable long-term funding for RIs at every stage in their lifecycle**, together with effective management.
- Foster broader **coordination at National and European levels** when designing processes for planning and supporting national and pan European RIs and so enhance their strategic value.



European RIs play a crucial role in Europe’s ability to produce new knowledge and innovation to **help understand and tackle the environmental, societal and economic challenges** that we face and contribute to the Sustainable Development Goals

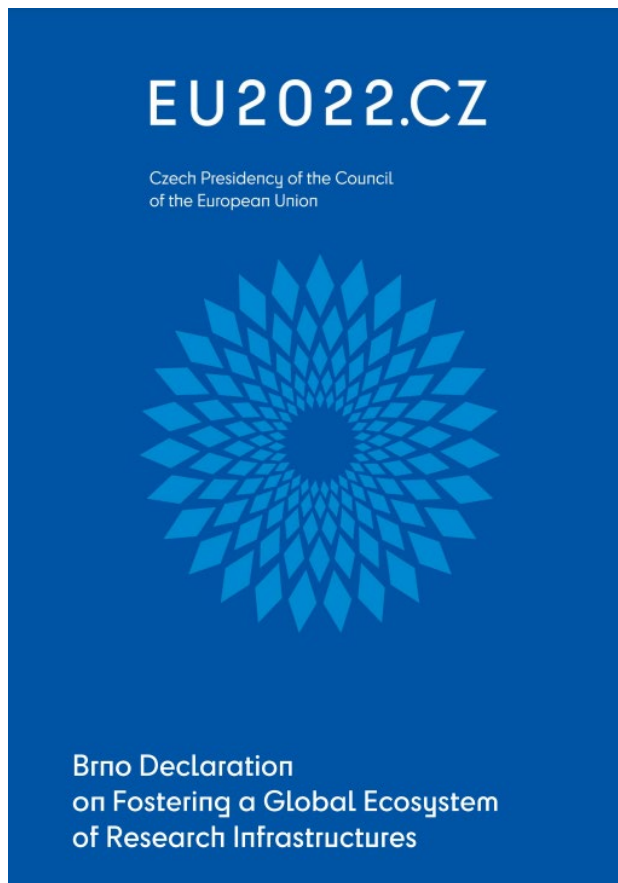


KEY MESSAGES

The MS/AC are invited, with support from ESFRI and Horizon Europe, to incentivise RIs to monitor their societal and economic value and impact; and follow their objectives, missions, and contribution to societal challenges and Sustainable Development Goals and ultimately to Europe’s competitiveness.

The MS/AC are invited, with support from ESFRI and Horizon Europe, to develop participatory approaches, continuous training schemes and dissemination of good practices to strengthen the link between science and citizens.

MS= Member States/AC= Associated Countries



is a **Call for action**, supported by EU MS and the EC, for RI policy-makers and funders to:

- Consider **environmental impact** and **climate footprint** of RIs
- Take into account the great potential of RIs as **socioeconomic development** accelerators
- Treat RIs as a long-term commitment, in order to create a stable, reliable and predictable funding environment



RIs are essential to provide services in support of tackling grand **societal challenges**, including the UN SDGs

adopted during the Int I
Conference on RIs in Brno
(18-21 October 2022)

VERY LARGE RESEARCH INFRASTRUCTURES

POLICY ISSUES AND OPTIONS

OECD SCIENCE, TECHNOLOGY
AND INDUSTRY
POLICY PAPERS

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Very Large Research Infrastructures (VLRIs), (including the Einstein Telescope), are **expected to deliver both scientific and socio-economic goals** > VLRIs expected societal role includes contribution to the UN SDGs

How can RIs contribute to SDGs?



Possible Actions

Related SDG

Increase resource-use efficiency and greater adoption of clean and environmentally sound technologies

Enhance scientific research

Increase the use of renewable energy

Improve energy efficiency

Ensure decent work for all women and men, including for young people and person with disabilities, and equal pay for work of equal value

Promote a safe and secure working environment for all workers

Adopt and implement GEP or legal frameworks to promote, enforce, monitor equality and non-discrimination on the basis of sex

Ensure women's full and effective participation and equal opportunities for leadership

Reduce waste generation through prevention, reduction, recycling and reuse

Integrate climate change measures into RIs policies, strategies and planning

Support quality education (formal/non-formal)

and more

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