



# Challenges and opportunities Horizon Europe Programme for RI

*Liina Munari  
Deputy Head of Unit  
eInfrastructure and Science Cloud  
DG CONNECT, European Commission*

# Research Infrastructures and HE

- Research Infrastructures are steadily rooted in the Horizon Europe
- The Pillar 1 WP 2021-22 will continue to provide the support for the RI
- RI play a prominent role in EOSC - as without them there is no EOSC
- EOSC + Missions: FAIR and open data sharing for infectious diseases, cancer, Mission Starfish 2030
- Ground-breaking RI technologies, incl. digital twins

# EOSC Strategic Research and Innovation Agenda SRIA 0.8

- **EOSC Ecosystem:** The encompassing set of federated (e-)infrastructures, research infrastructures, stakeholder organisations and projects that contribute to and/or use EOSC
- **EOSC Partnership Proposal:** its domain-agnostic objectives to federate infrastructures and develop a web of FAIR digital objects brings new potential to contribute to the Horizon Europe missions, partnerships and clusters
- **AI (Artificial Intelligence), Data & Robotics partnership** EOSC will make available the high-quality scientific datasets to be consumed by machine-driven AI applications at the service of science.

# COVID-19 example (SRIA)

- The recent COVID-19 emergency has given clear evidence of the benefit that open science practices can bring, but also of the large areas for improvement.
- The demand for a portal providing access to COVID-19-related data sources, computing and thematic services within the ELIXIR research infrastructure was rapidly satisfied, benefiting from past research infrastructure investments in the domain.
- Still, reproducibility is not fully supported, programmatic access remains hard and so are monitoring and discovery of research results within and across disciplines.

# Challenge?

*“However, while an instrumented, interconnected and intelligent world has unprecedented potential to solve the key challenges of the time, this potential will only be realised if research infrastructures are evolving to allow scientists to make the best use of the available information”*

# Thank you



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