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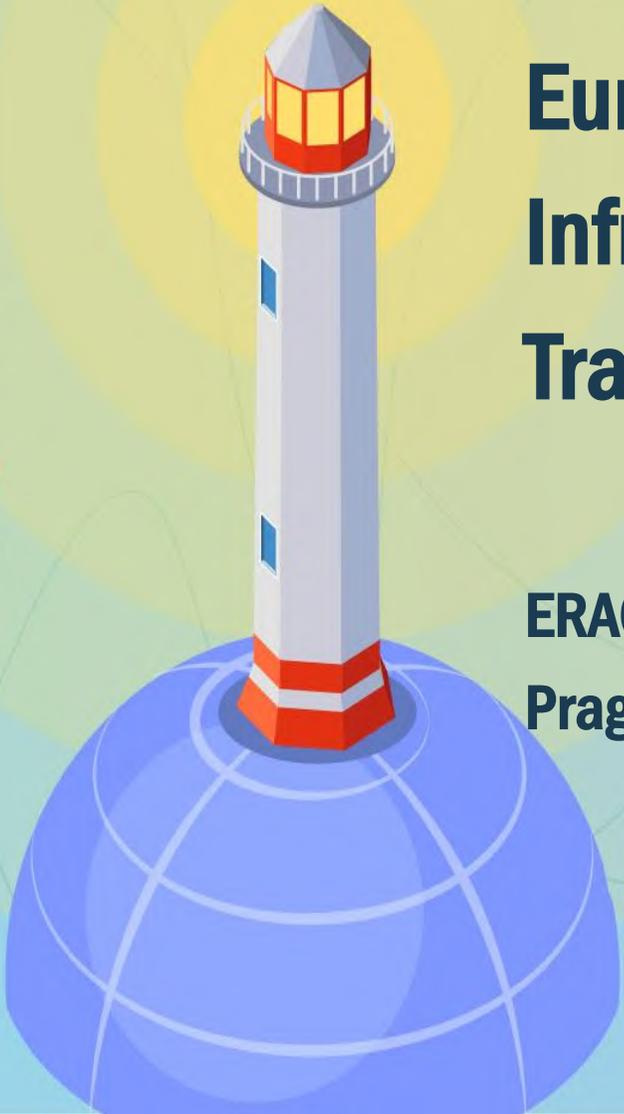
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WORKING DOCUMENT

From: General Secretariat of the Council
To: ERAC (European Research Area and Innovation Committee)

Subject: European Research Infrastructures : Digital Transition
- PPT presentation

Delegations will find attached PPT on the above mentioned subject displayed at the meeting of the European Research Area and Innovation Committee (ERAC) on 13 - 14 September 2022.



European Research Infrastructures: Digital Transition

ERAC Plenary
Prague, 12-14 Sep 2022

#ResearchImpactEU
#EURResearchArea



Context

- A well-functioning European ecosystem of research infrastructures, integrating European large-scale research infrastructures and complementary national, mid- and small-sized research infrastructures allows to:
 - ensure scientific excellence;
 - address major scientific, environmental and societal challenges;
 - underpin industrial value chains
- RIs - advanced in digital transition
 - operation, instrumentation access and services, data and results
 - users of and providers to EOSC
 - rely on European and national digital infrastructures
- Challenge: a systemic approach at EU level to ensure economies of scale, avoid duplication of efforts, strengthen interoperability building on investments

1 - Fostering and accelerating the digitalisation of research infrastructures

- Digital transition has multiple dimensions
 - digitalisation of instrumentation, remote access and remote operation
 - integration of data and information from RIs e.g. in digital twins
 - technology development
 - Skills and training
- Analysis of the needs, priorities, competitiveness issues and associated resources and steps in the short- and longer-term

2- Fostering interconnection of digital and research infrastructures

- A well-established physical and digital infrastructure landscape at European and national levels based on major investments
- Coordination and interconnection between existing digital and research infrastructures, including through the EOSC ecosystem
 - improving quality and relevance of available services, avoiding duplication
- Overall aim for:
 - Future physical/digital interconnection by design at various levels
 - User-driven digital developments based on RI roadmaps and relying on EOSC interoperability requirements

3- Strengthening the interface between ESFRI and EOSC

- ESFRI RIs generate/process big data and need data-intensive capacities: data providers and users of EOSC data and services
- Interface between ESFRI and EOSC:
 - cooperation between ESFRI and EOSC facilitating coherent and complementary strategies as well as joint activities when appropriate
 - Shared input to respective ESFRI strategy (including roadmap process) and EOSC Strategic Research Agenda also ensuring operational consistency