



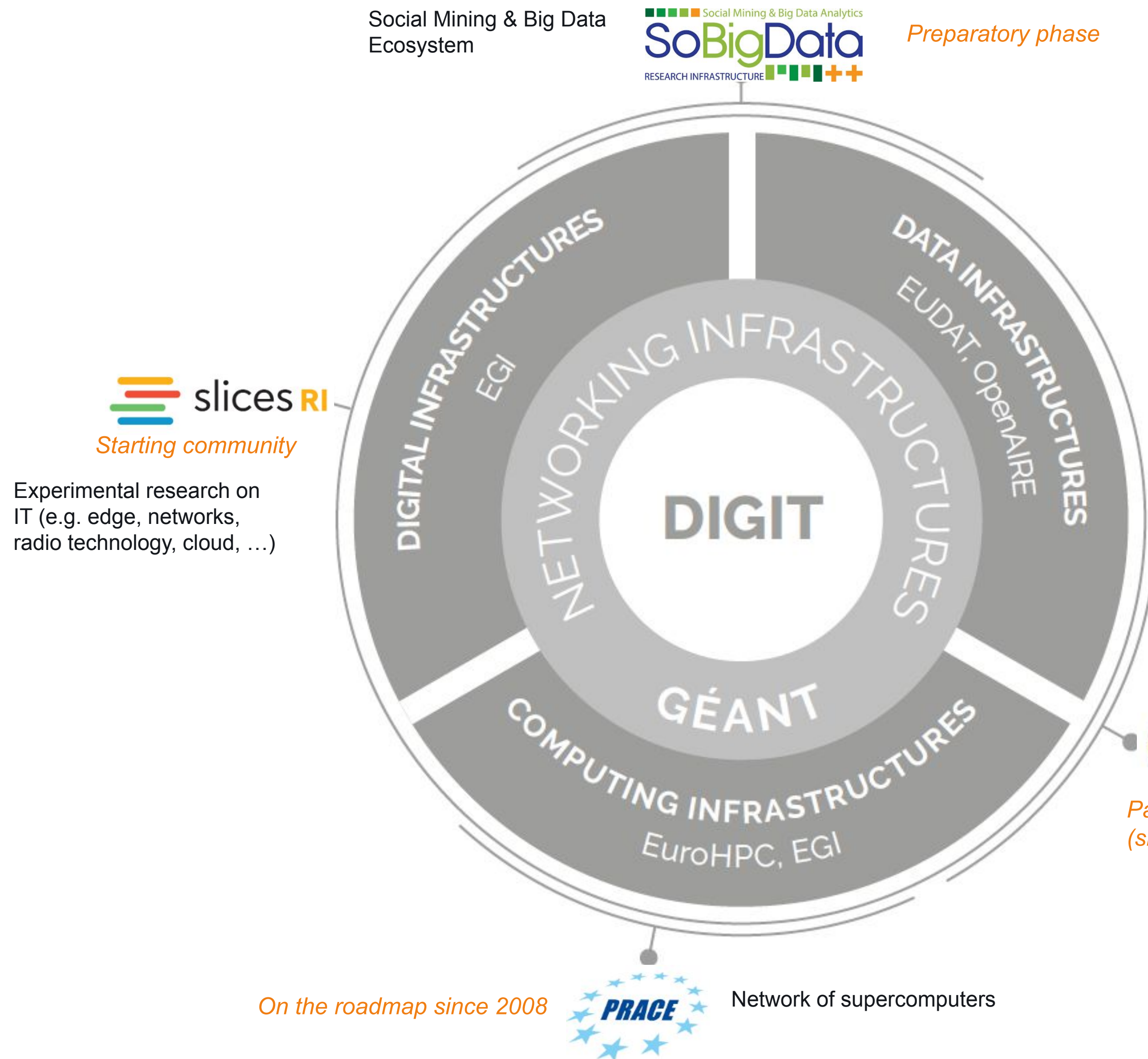
# The landscape of digital infrastructures for global research

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Head of services, solutions, support

EGI Foundation

ICRI 2022, Brno



**“A Digital Infrastructure (DI) is broadly defined as a set of information and communication technology components that are the foundation of ICT-services.”**

- Different scopes & specialisations
- Different levels of maturity
- Different funding landscape
- Thematic landscape is growing (DIGIT is ‘+1 instrument’ for RI users)

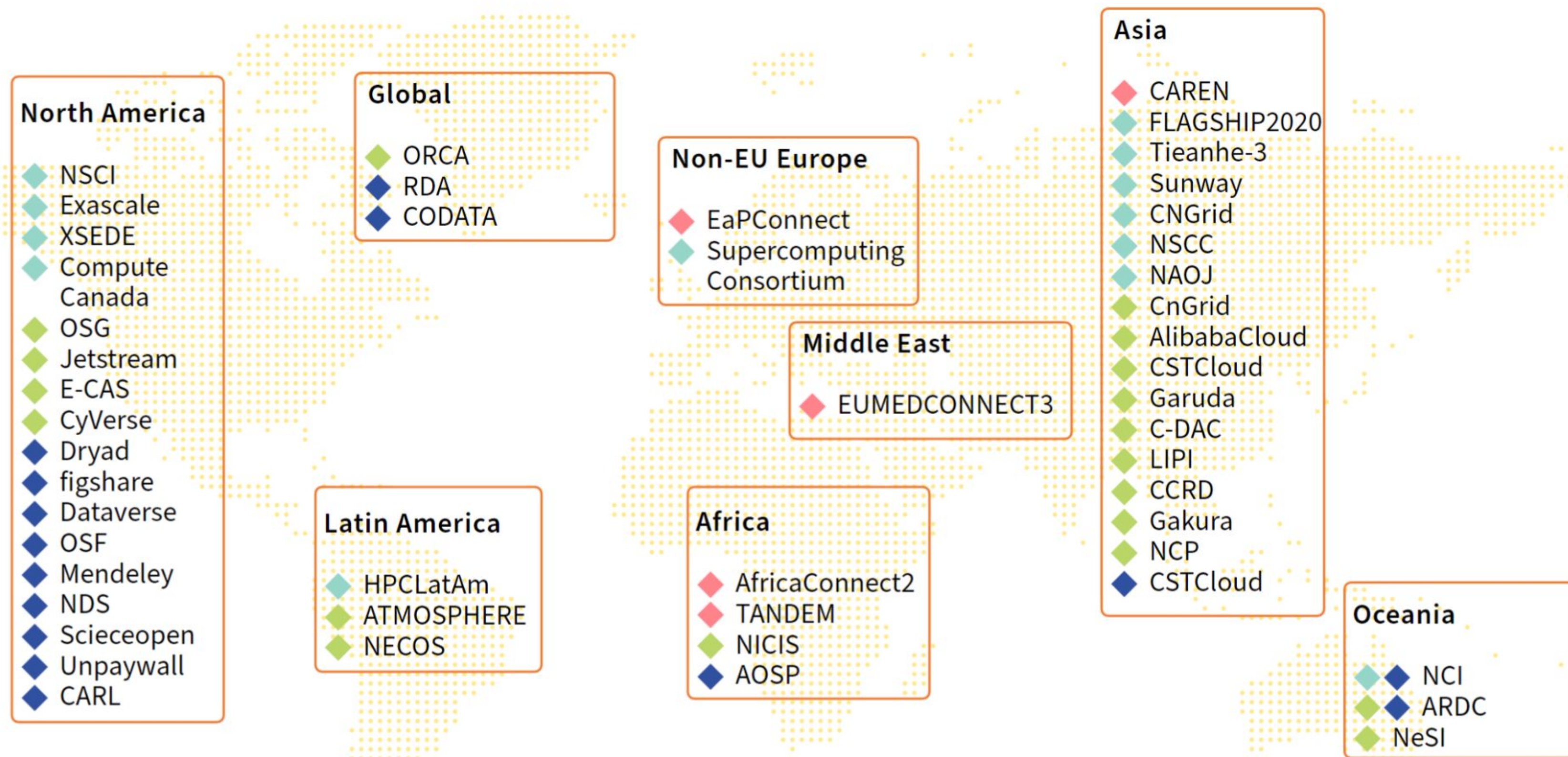
# Global outlook on DIGIT Infrastructures

International Research Infrastructure Landscape

Dec 2019

Section 10 covers e-Infrastructures

<https://zenodo.org/record/3539254#.Y05TIXYeO5c>



- **Europe - International collaborations in DIGIT**
  - **GEANT & NRENs (connectivity)**
  - **PRACE and HPC facilities (Schools, conferences)**
  - **EGI and E-infrastructures (Technology and community support)**

# Cooperation among DIGIT infrastructures (in Europe)

## e-Infrastructure Reflection Group

- *To facilitate integration in the area of EU e-Infrastructures and connected services, within and between Member States, at the EU level and globally.*
- *To support both coherent, innovative and strategic European e-Infrastructure policy-making for convergent and sustainable e-Infrastructure services.*
- *European National delegates: <https://e-irg.eu/delegates-and-observers/>*

## e-IRG White Paper 2022 (to be published in Dec 2022)

- *Facilitate European-level cooperation (White paper in 2021 on institutional/national/regional levels)*
- *Reflecting on cooperation/collaboration gaps*
- *Providing concrete advice and recommendations to all stakeholders*
  - *E.g. An e-Infrastructure Umbrella Forum; EU Charter of Acces; Cross-infra Helpdesk, ...*



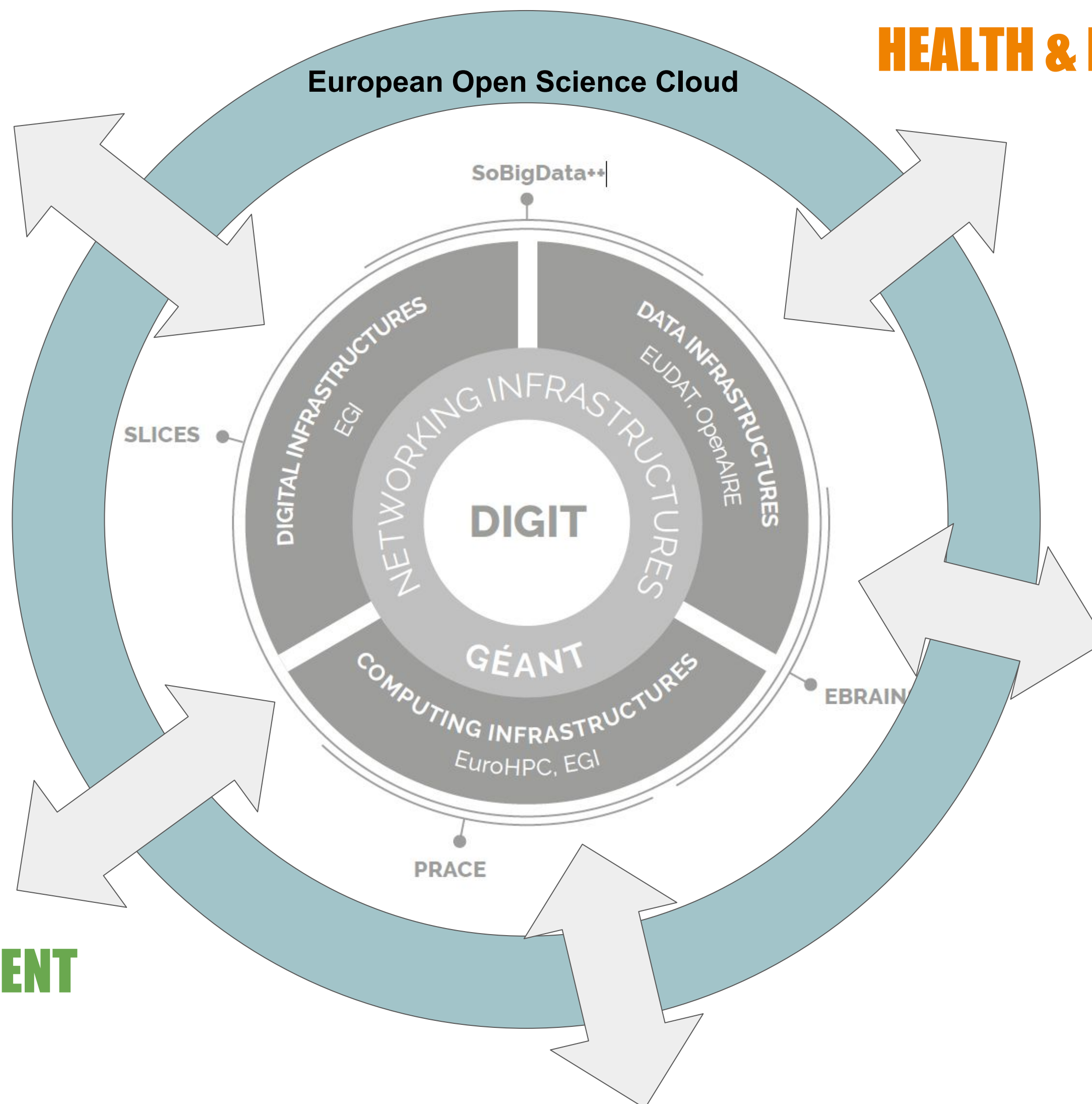
**ENERGY**

**HEALTH & FOOD**

...to provide European researchers, innovators, companies and citizens with a federated and open multi-disciplinary environment where they can publish, find and re-use data, tools and services for research, innovation and educational purposes.

**ENVIRONMENT**

**PHYSICAL SCIENCES & ENGINEERING**

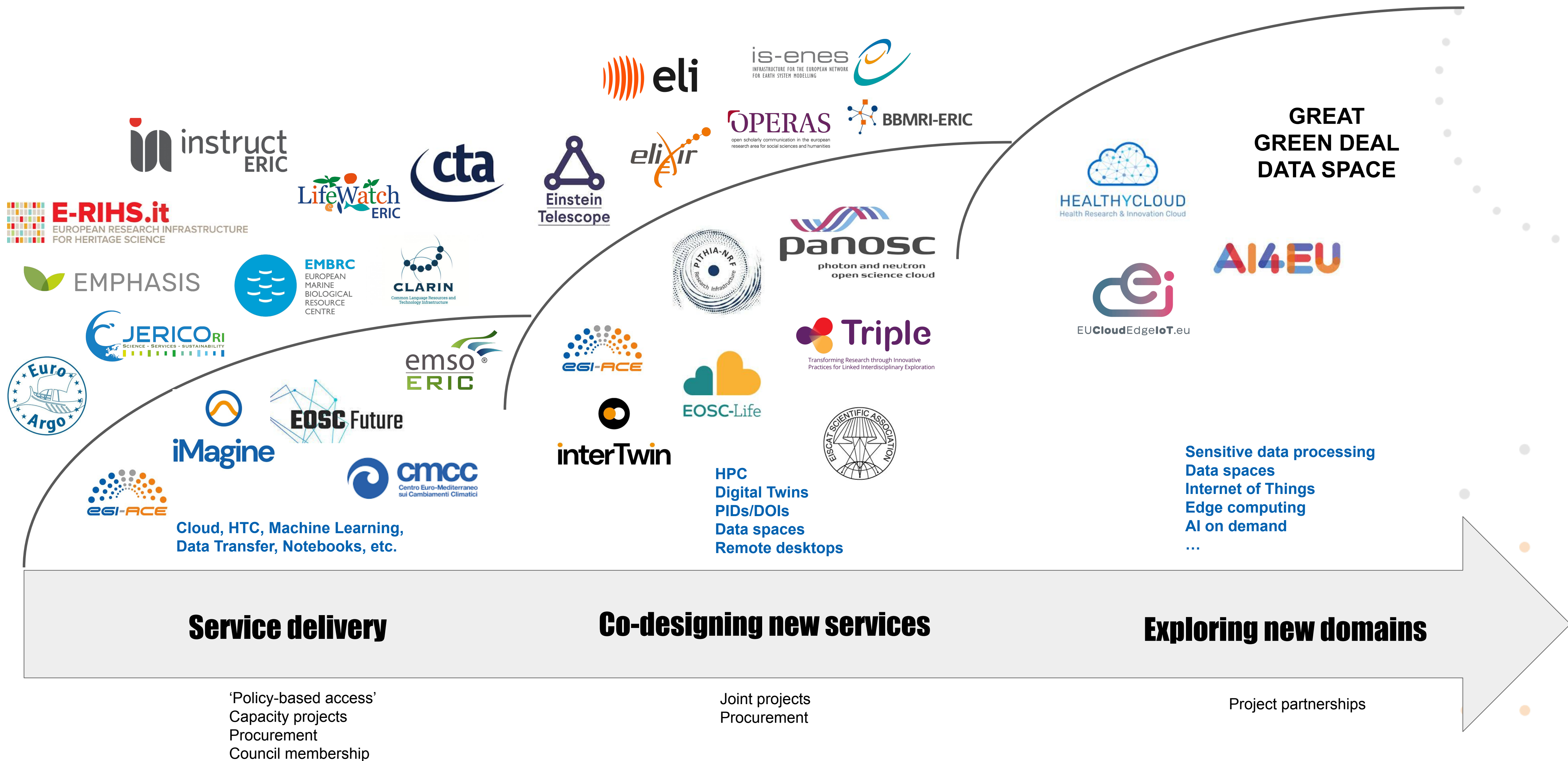


**SOCIAL & CULTURAL INNOVATION**

- **DIGIT capacity (Virtual Access)**
  - EGI-ACE → EGI
  - DICE → EUDAT
  - OpenAIRE-Nexus → OpenAIRE
- **Facilitation, co-design**
  - EOSC Future Science Projects
  - Cluster projects



# DIGIT - Thematic collaboration examples w. EGI





# EGI vision for a 'compute continuum'

## International research infrastructures and projects



Service Level Agreement



**Resource brokering and access support**  
Distributed Competence Centres



**Technical federation, enabling:**  
Identity portability + Data portability + Application portability

Operation Level Agreement



**EuroHPC**  
Joint Undertaking



... **Nationally and internationally funded DIGIT infrastructures**



**Aligned science and compute priorities**



Thank you!

[www.egi.eu](http://www.egi.eu)