Symposium on European Funding Instruments for the development of Research Infrastructures

Madrid, 19 April 2016

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The European Cloud Initiative

and

the e-Infrastructures part of Horizon 2020

Digital Single Market Technologies and Public Service Modernisation Package

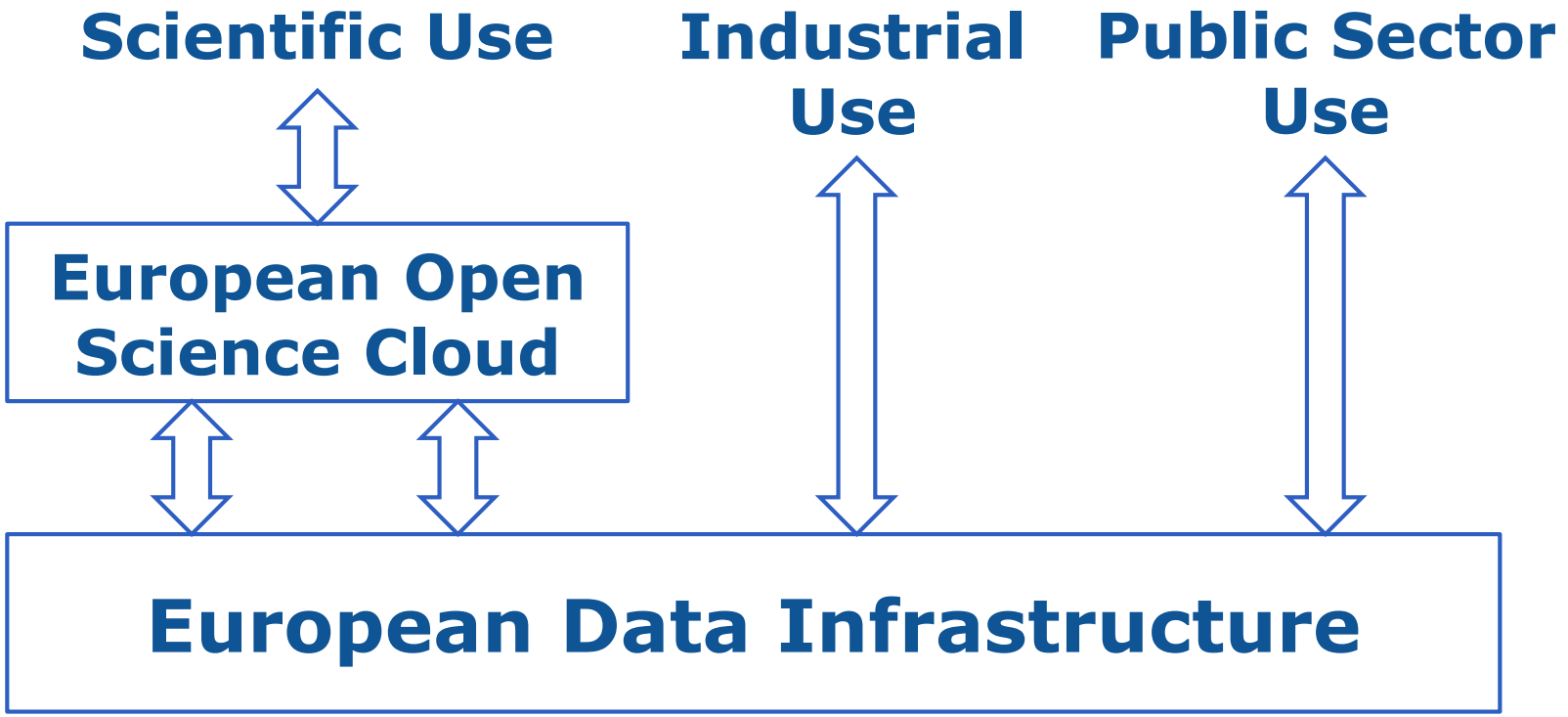
- *Digitising European Industry*
  - **Advancing the Internet of Things**
- *European Cloud Initiative*
  - **High-Performance Computing**
  - **Quantum Technologies**
- *Priorities for ICT Standardisation*
- *E-Government Action Plan*

Adopted today

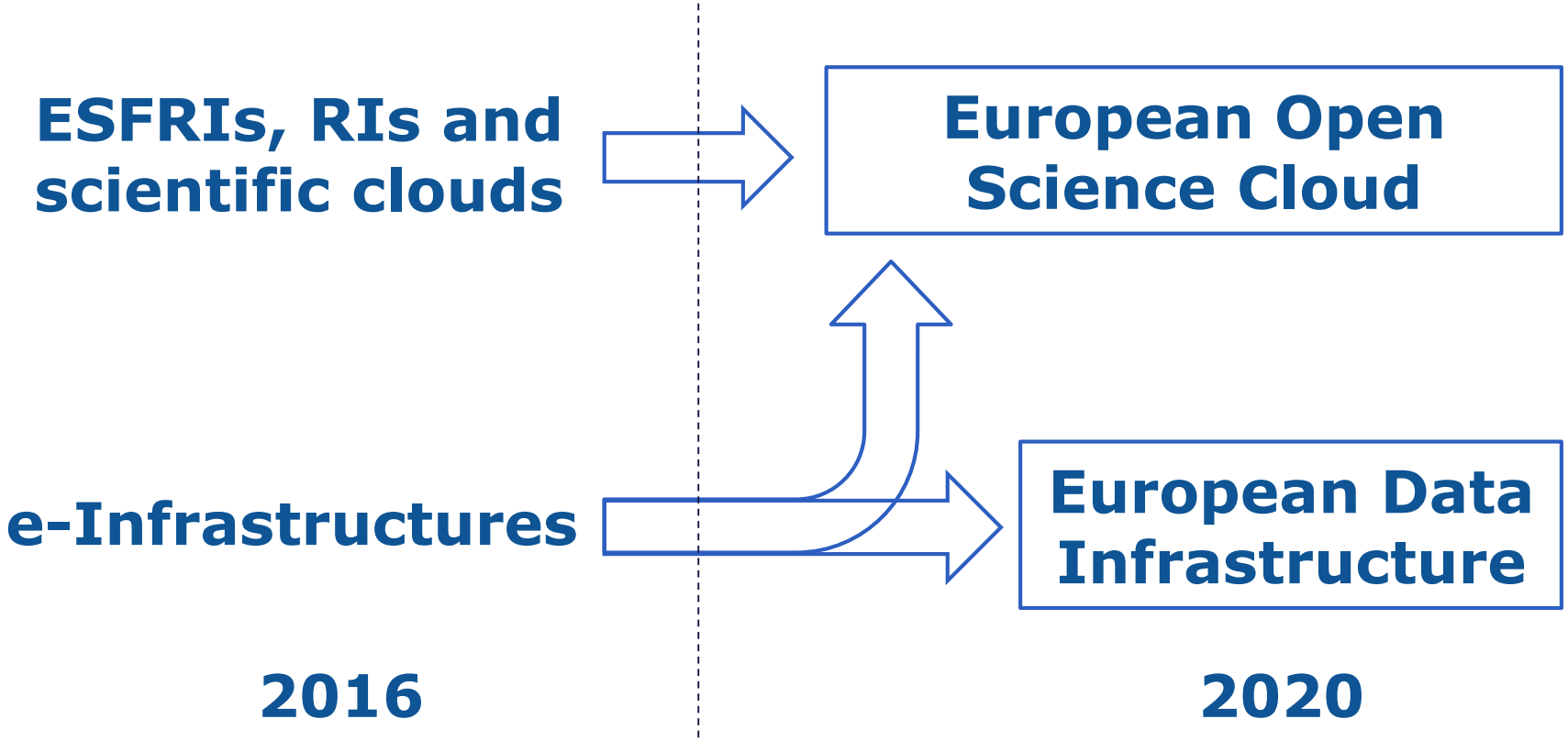
European Cloud Initiative (highlights)

- *European Open Science Cloud (EOSC)*
  - **Integration and consolidation of e-infrastructures**
  - **Federation of existing research infrastructures and scientific clouds**
  - **Development of cloud-based services for Open Science**
  - **Connection of ESFRIs to the EOSC**
- *European Data Infrastructure*
  - **Development and deployment of large-scale European HPC, data and network infrastructure**
- *Widening access and building trust*
  - **SMEs, Government as a Service, Standards**

Static View on Year 2020 (over-simplification)



Dynamic View from 2016 to 2020 (over-simplification)



Concrete steps (WP14-15)

- *EINFRA-22-2016 – User-driven e-infrastructure innovation (21 M€, closed on 30/3/2016)*
  - **Service development for**
    - Societal challenges
    - Innovative actors (SMEs)
    - Pan-European ID Federation
    - Support services for Open Science

- *EINFRASUPP-03-2016 – Support to policies and international cooperation for e-infrastructures (7,5 M€, closed on 30/3/2016)*
  - **SKA**
  - **Catalogue of services**
  - **Foresight roadmaps**

Concrete steps (WP16-17)

- *INFRADEV-04-2016 – European Open Science Cloud (10 M€, closes 22 June 2016)*
  - **Research data generated by RI, such as ESFRI projects**
  - **Head and long-tail of science**
  - **Governance**

- *EINFRA-12-2017 – Data and distributed computing e-infrastructures for Open Science (€40 M€, closes 29/3/2017)*
  - **Integration and consolidation of e-infrastructure services**

- *EINFRA-21-2017 – Platform-driven e-infrastructure innovation (€20 M€, closes 29/3/2017)*
  - **Service development**

WP16-17 Call Topics

EINFRA-12-2017: Data and Distributed Computing e-Infrastructures for Open Science

EINFRA-21-2017 – Platform-driven e-infrastructure innovation

WP16-17 Implementation Principles

- **Service orientation:** Catalogue of **services**
- **Maximizing and assessing the impact of e-Infrastructures:** Use of **KPIs** for operational, technical and socio-economic impact assessment
- **Innovation through co-design:** the Commission encourages that consortia applying to all topics, in particular to those in the platform-driven and user-driven innovation themes, are composed by a balanced set of partners with complementary competences and roles

e-Infra WP2016-17 consists of 3 themes

Integration and consolidation of e-infrastructure platforms

Prototyping innovative e-infrastructure platforms and services

Support to policies and international cooperation

Theme 1 - Integration and consolidation

Covers

- **Coordination** of **operations** and funding (regional, national & European levels)
- Exploiting **synergies** between operational e-Infrastructures
- Continuous **upgrades** of infrastructure without service disruption

Features

- TRL8 or above
- Transnational and virtual access cost reimbursement
- Documentation of services on an open **Service Catalogue**
- Services to be assessed by an **external board** (approved by the EC)
- Projects to conclude **written** collaboration agreements

Relevant topic

- **EINFRA-12-2017 (closes 29/3/2017)**

Theme 2 – Prototyping innovative platforms and services

Covers

- **Evolution** through **innovative actions**
- **Platform-driven** innovation. **Push** from the supply side
- **User-driven** innovation. **Pull** from the demand side

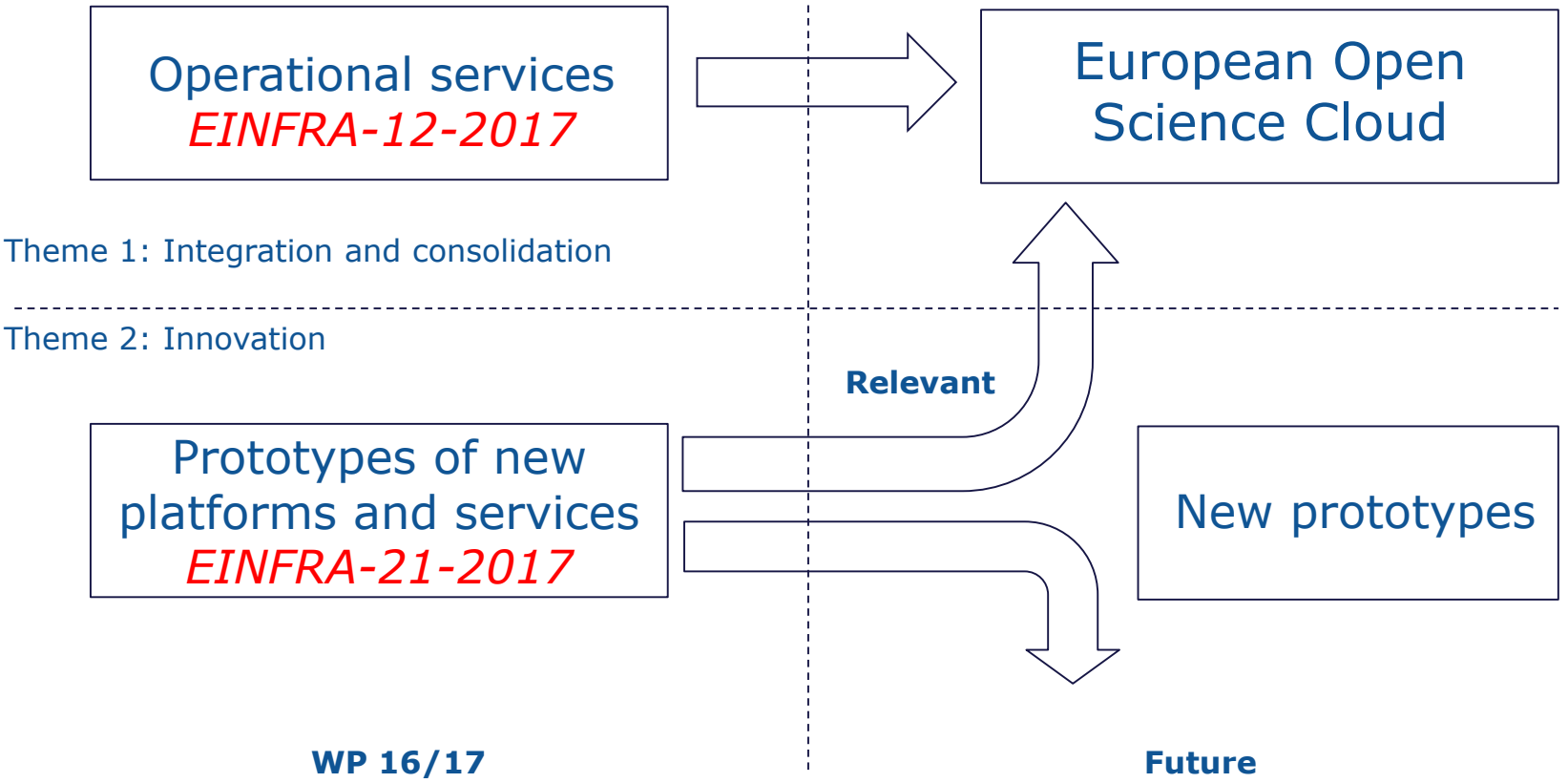
Features

- TRL6 at the beginning of the project; TRL8 by the end (except PPI actions)

Relevant topic

- **EINFRA-21-2017** (platform-driven) **(closes 29/3/2017)**

Interplay between theme 1 and theme 2: a dynamic view of WP 16/17



ICT Proposers' Days – Bratislava 26-27 September 2016

- *2 hours session on e-Infra calls*
  - **Brief presentation of call topics**
  - **Presentation by potential participants**
- *Occasion for e-Infras, ESFRIs and RIs to meet and discuss potential co-design opportunities in the context of EINFRA-21-2017 as well as integration and consolidation opportunities in the context of EINFRA-12-2017*

The Digital4Science platform

www.ec.europa.eu/d4science

#D4Science

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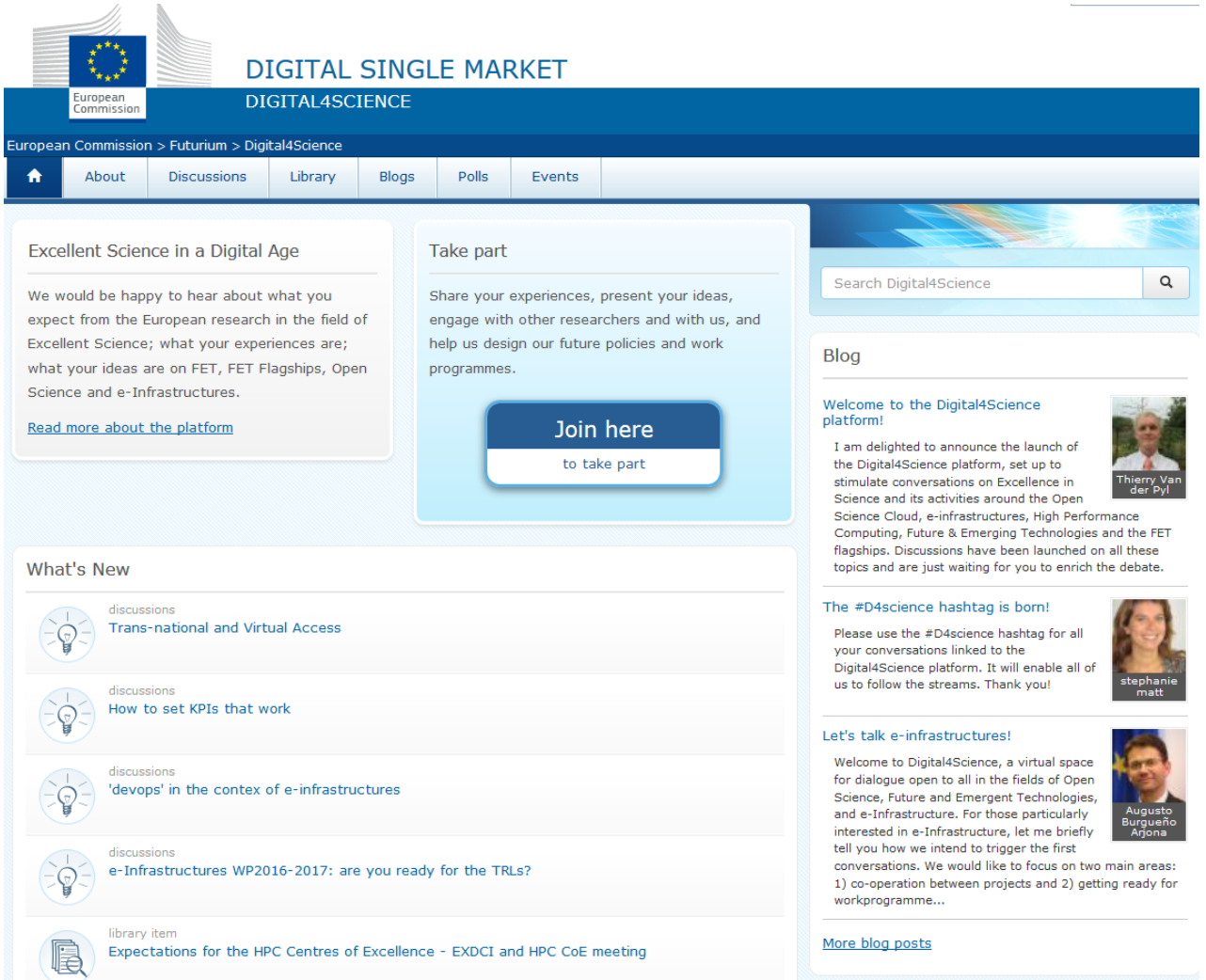
@FET_EU
@FETflagships
@eInfraEU



Thanks!