



Symposium on European Funding Instruments for the development of Research Infrastructures

Madrid, 19 April 2016

Augusto BURGUEÑO ARJONA

Head of Unit e-Infrastructure – DG CNECT - European Commission



The European Cloud Initiative

and

the e-Infrastructures part of Horizon 2020

Digital Single Market Technologies and Public Service Modernisation Package

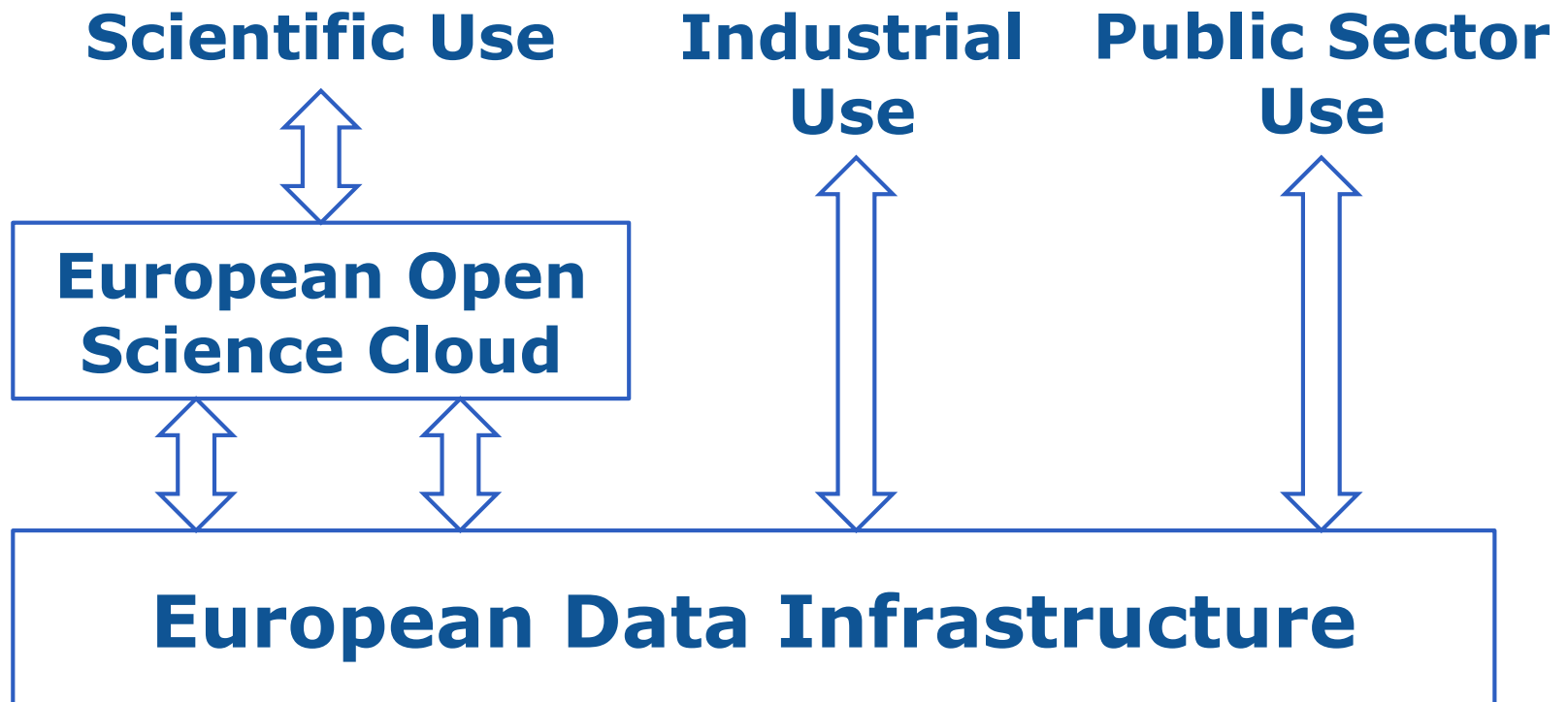
- *Digitising European Industry*
 - **Advancing the Internet of Things**
- *European Cloud Initiative*
 - **High-Performance Computing**
 - **Quantum Technologies**
- *Priorities for ICT Standardisation*
- *E-Government Action Plan*

Adopted today

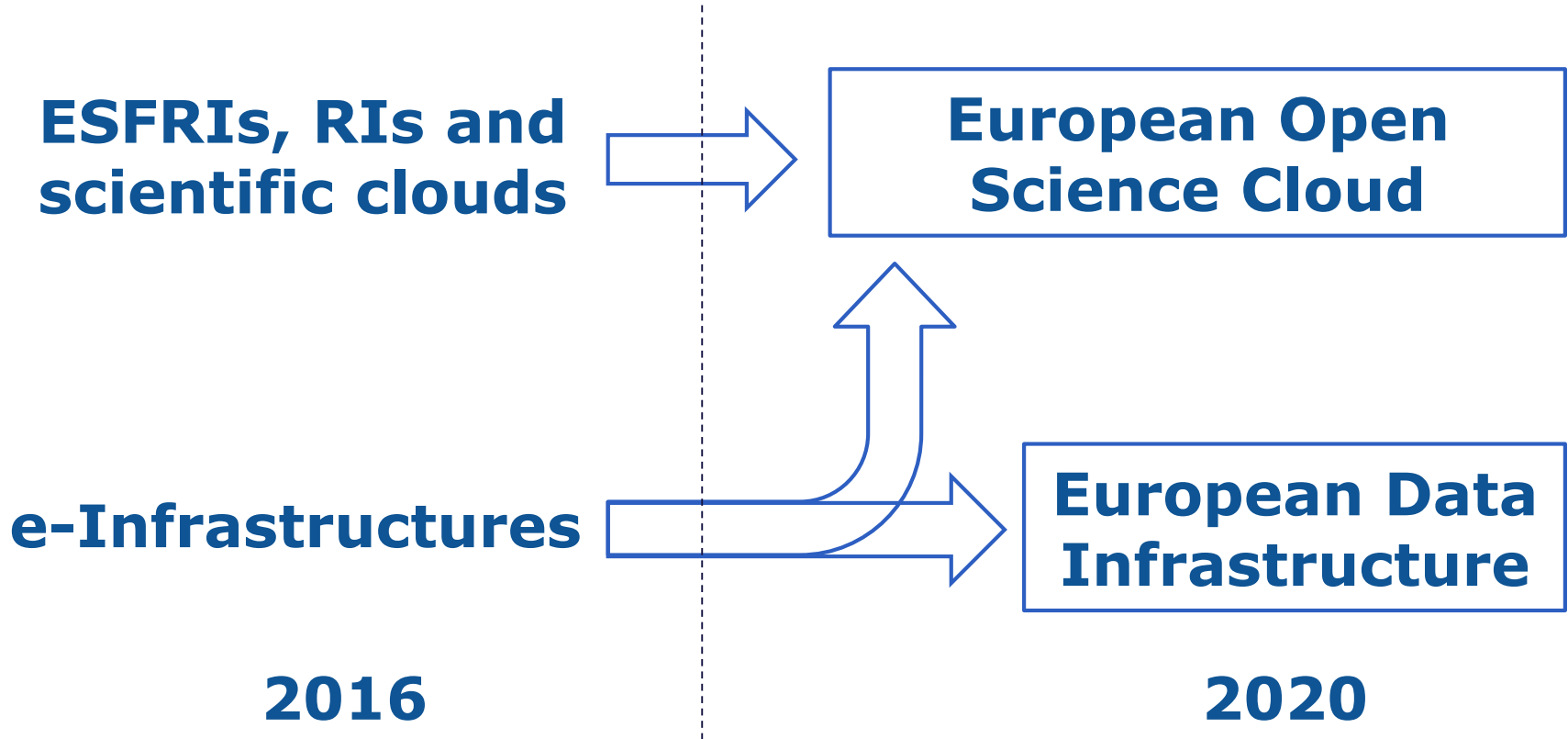
European Cloud Initiative (highlights)

- *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

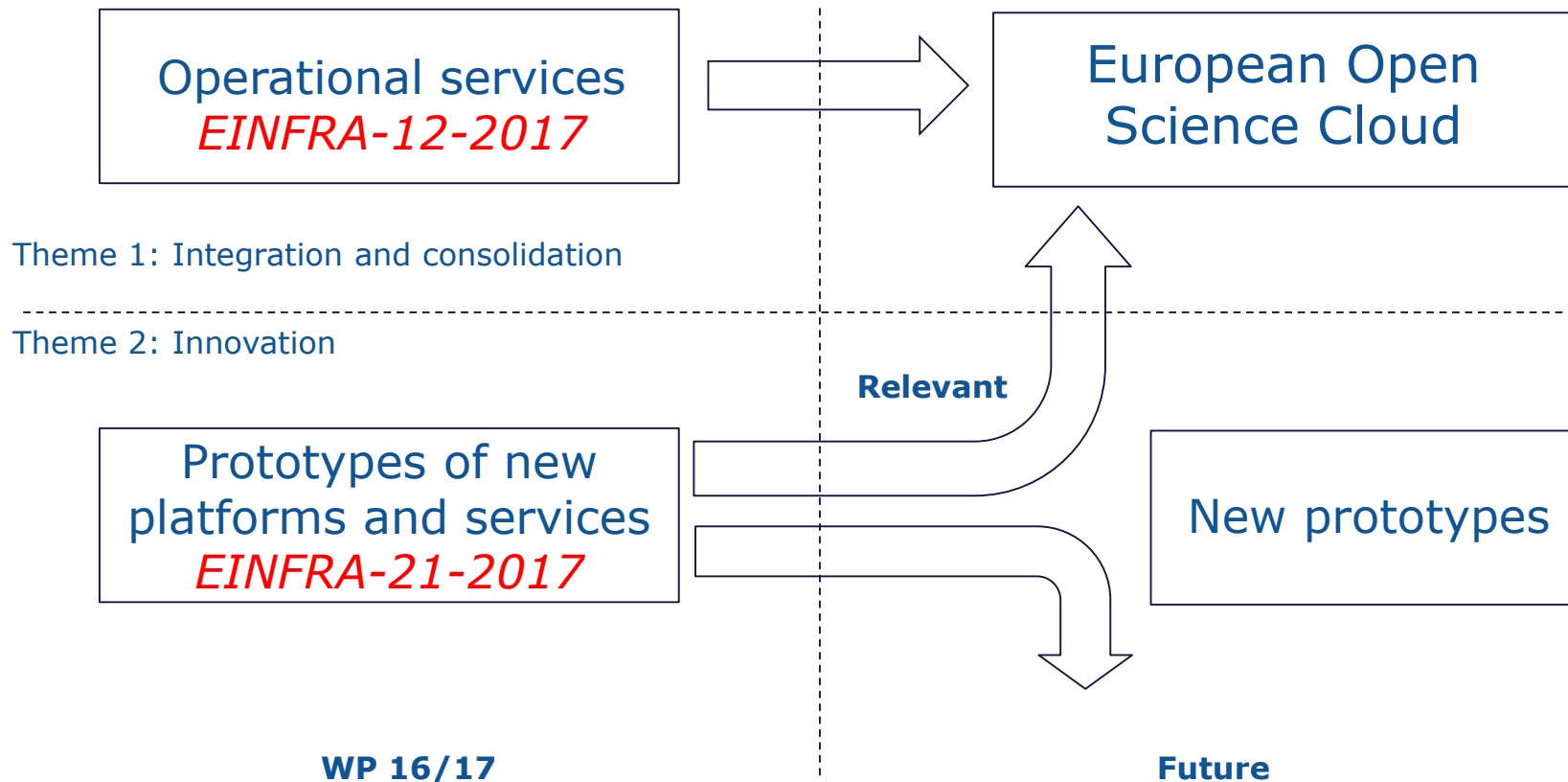
Features

- 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

@ICTscienceEU

@FET_EU

@FETflagships

@eInfraEU

The screenshot shows the Digital4Science website. At the top, it features the European Commission logo and the text 'DIGITAL SINGLE MARKET' and 'DIGITAL4SCIENCE'. Below this is a navigation bar with links for 'Home', 'About', 'Discussions', 'Library', 'Blogs', 'Polls', and 'Events'. The main content area is divided into several sections:

- Excellent Science in a Digital Age:** A text block inviting researchers to share their experiences and ideas, with a link to 'Read more about the platform'.
- Take part:** A section encouraging users to share experiences and engage with other researchers, featuring a prominent 'Join here to take part' button.
- What's New:** A list of recent discussions and library items, each with a lightbulb icon. Items include 'Trans-national and Virtual Access', 'How to set KPIs that work', ''devops' in the context of e-infrastructures', 'e-Infrastructures WP2016-2017: are you ready for the TRLs?', and 'Expectations for the HPC Centres of Excellence - EXDCI and HPC CoE meeting'.
- Blog:** A section with a search bar and several blog posts. The first post is titled 'Welcome to the Digital4Science platform!' by Thierry Van der Pyl. The second is 'The #D4science hashtag is born!' by Stephanie Mat. The third is 'Let's talk e-infrastructures!' by Augusto Burgueño Argona.



European
Commission

Thanks!