



How the H2020 eInfrastructure Work Programme 2016-17 supports the eInfrastructure commons

Augusto BURGUEÑO ARJONA

Head of eInfrastructure DG CONNECT EC

E-INFRASTRUCTURE SERVICES ENABLE THE OPEN SCIENCE VISION

**Open
research data**

**Data and
computing
intensive
science**

**Research and
education
networking**

**High
performance
computing**

**Big data
innovation**

Implementation Principles

- **Service orientation**
 - Catalogue of **services**
- **Maximizing the impact of e-Infrastructures**
 - Use of **KPIs** for operational, technical and socio-economic impact assessment to assess impact
- **Innovation through co-design**
- **Open research data**
- **Participation in international fora such as the Research Data Alliance (RDA)**
- **Horizon 2020 as a catalyst for growth and jobs**

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

Topics

- EINFRA-11-2016, EINFRA-12-2017 and EINFRA-8-2014 (GEANT)

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

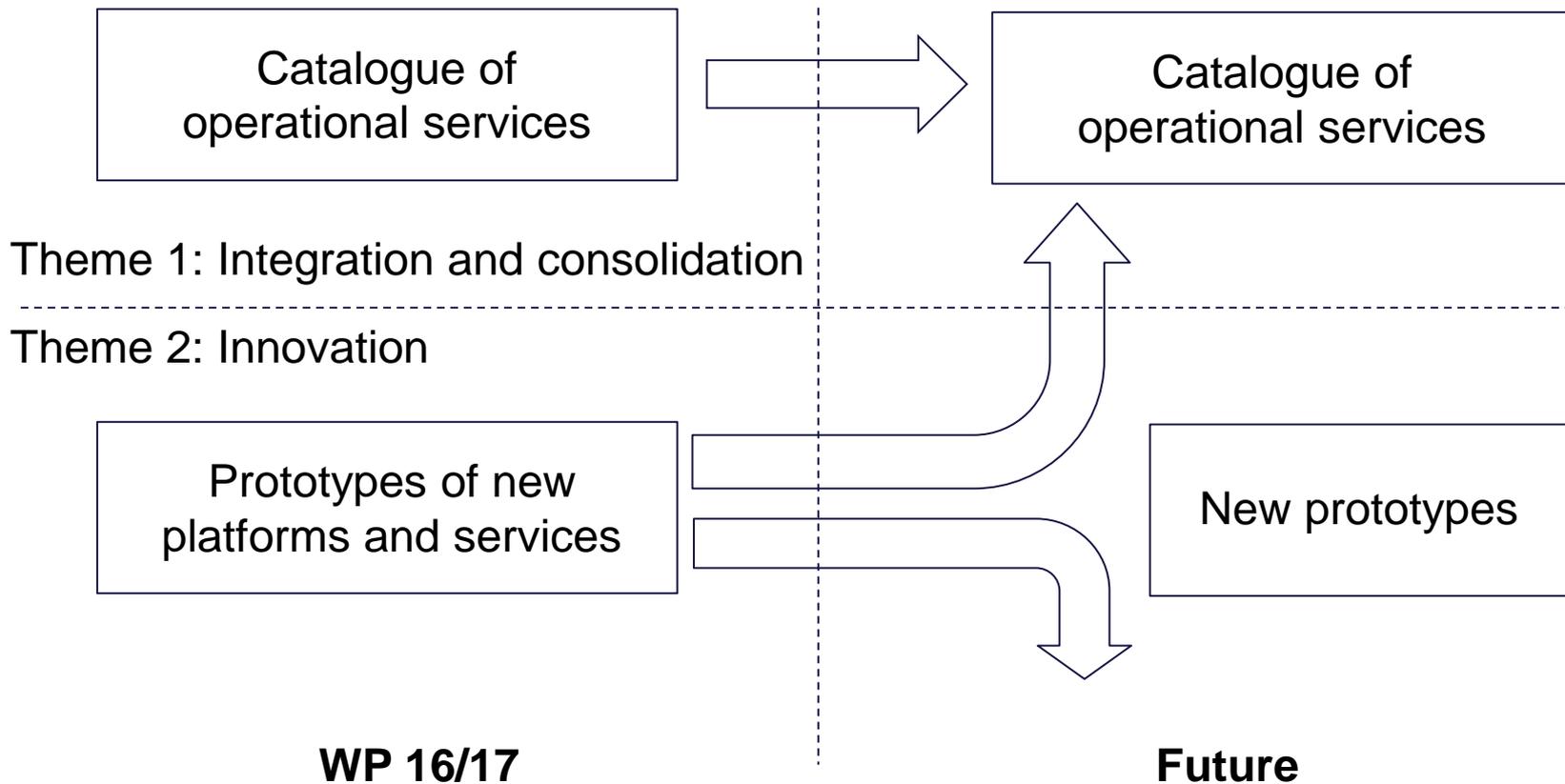
Features

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

Topics

- EINFRA-21-2017, EINFRA-22-2016, EINFRA-8-2014 (GEANT) and FETFLAG-1-2014 (Human Brain Project)

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





Implementation mechanism for EINFRA-12-2017

- All proposals responding to this call will be evaluated by the same expert evaluators, some of which will be part of the external board referred to in the work programme
- In addition to the individual evaluation reports, the evaluators will be asked to identify potential synergies, overlaps and gaps in the overall service offering proposed in the proposals
- Successful proposals will conclude complementary grants with the Commission, which requires them to sign collaboration agreements among themselves
- The Commission will encourage projects to take into consideration the observations made by the evaluators when concluding their collaboration agreements
- After six months of grant agreement signature, the Commission will convene the external board to assess the collaboration agreements
- Reviews for these projects will be run jointly



Theme 3 – Policies and international cooperation

Covers

- European support to the Research Data Alliance, RDA
- Support to data dissemination and international cooperation in the context of the Square Kilometre Array project
- International Co-operation on e-infrastructure supporting major societal challenges
- Support to the e-IRG secretariat
- Support to dissemination for the e-infrastructure programme
- Support to small-size foresight roadmaps for the e-infrastructure programme

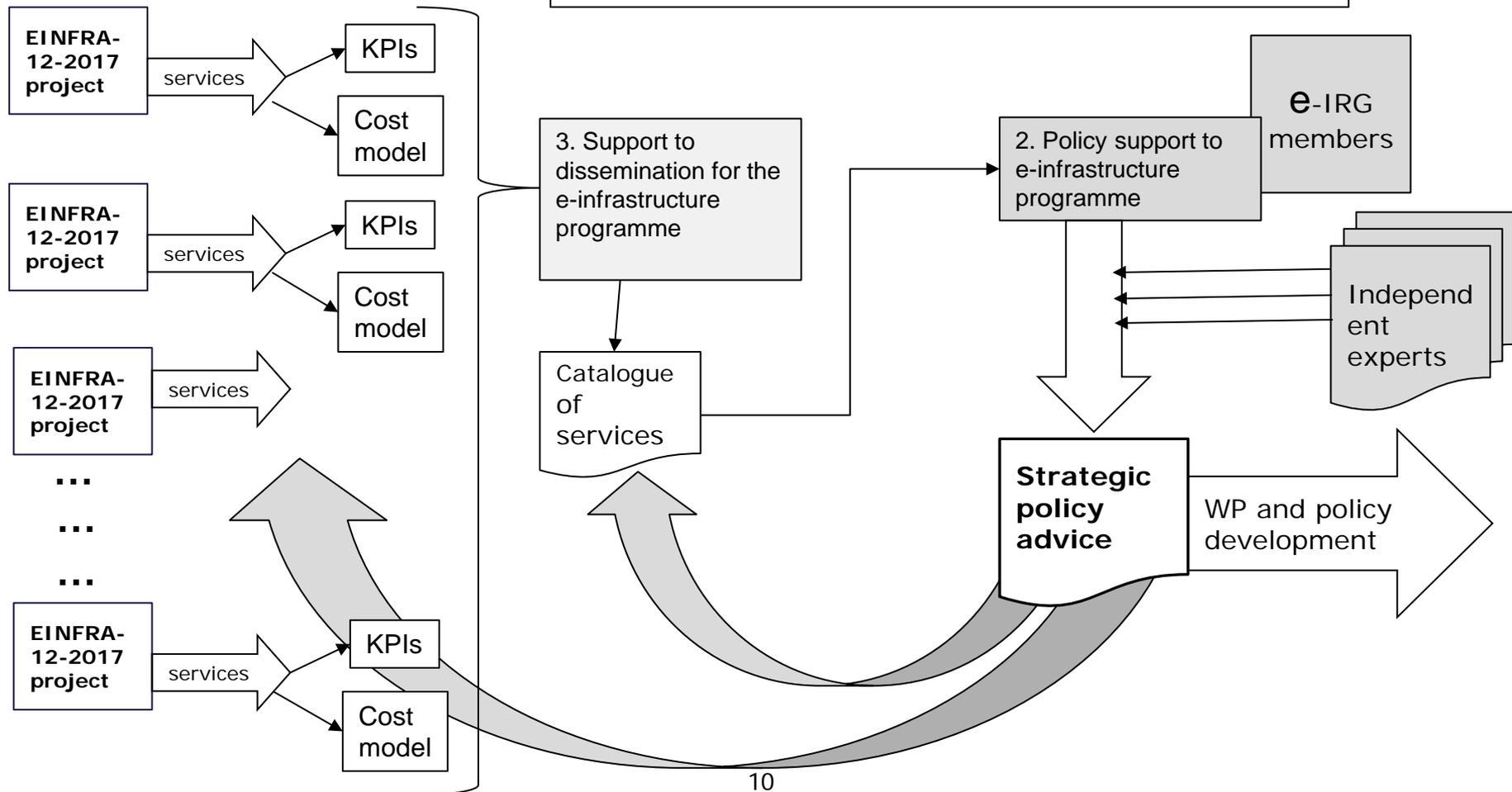
Topics

- INFRASUPP-03-2016, INFRASUPP-02-2017 (3), INFRASUPP-03-2017

Policy support – how it works



INFRASUPP-03-2016: Support to policies and international cooperation for e-infrastructures



Conditions applicable to all e-Infrastructure projects: part D of the section “Specific features for Research Infrastructures” p.74-77

- Proposals shall consider **existing operational** services to the greatest extent possible to use or extend them
- All proposals are requested to suggest clear metrics (**KPIs**) for monitoring results and impact
- All services developed should be made discoverable on-line by including them in searchable **catalogues** or digital registries
- All software developed should be **open source** with appropriate licenses
- Theme 1 (**Integration**): Focus on (i) Networking & (ii) Service activities
- Theme 2 (**Innovation**): (i) Networking, (ii) Service & (iii) Joint Research Activities (JRA)

Budget overview

Topic	Budget (M€)
Theme 1 - Integration and consolidation of e-infrastructure platforms supporting European policies and research and education communities	(55)
EINFRA-1.1-2016 - Support to the next implementation phase of Pan-European High Performance Computing infrastructure and services (PRACE)	15
EINFRA-1.2-2017 - Data and Distributed Computing e-infrastructures for Open Science	40
Theme 2 - Prototyping innovative e-infrastructure platforms and services for research and education communities, industry and the citizens at large	(67)
EINFRA-2.1-2017 – Platform-driven e-infrastructure innovation	46
EINFRA-2.2-2016 – User-driven e-infrastructure innovation	21
3 - Support to policies and international cooperation	(10)
INFRA-SUPP-02-2017 Policy & Cooperation measures for research Infrastructures	2,5+1*
INFRA-SUPP-03-2016 Support to policies and international cooperation	7,5
Other actions including different type of instruments:	
(a) FPA - GÉANT Partnership Projects	(64)
(b) FPA - Computing and storage e-infrastructure for the Human Brain Project FET Flagship (FPA)	(25)
Total	221

Workprogramme 2016-17 and the e-Infrastructure Commons

Elements of the commons

1. A platform for coordination of the services building the Commons, with a central role for European research, innovation and research infrastructure communities.
2. Provisioning of sustainable and interoperable e-infrastructure services within the Commons, promoting a flexible and open approach where user communities are empowered to select the services that fulfil their requirements.
3. Implementation of innovation projects providing the constant evolution of e-infrastructures needed to meet the rapidly evolving needs of user communities.

eInfra WP16-17

1. Theme 3: Policy support, KPIs, cost models
2. Theme 1: Integration and Consolidation (Service-oriented, Catalogue of services)
3. Theme 2: Innovation (Open, Co-design, Multidisciplinarity, Societal challenges)

Further information and additional resources

Information Day

Information Days on Horizon 2020 Research Infrastructures Work Programme 2016-17 with focus on e-Infrastructures:

Place: Meeting Room AB 0A,
Borschette Building
36 rue Froissart, Brussels

Date: **30 Nov 2015**

Time: **13h30* – 18h30**



The Digital4Science platform

www.ec.europa.eu/d4science



#D4Science

@ICTscienceEU

@FET_EU

@FETflagships

@eInfraEU

The screenshot shows the Digital4Science website. At the top, there is a header with the European Commission logo and the text "DIGITAL SINGLE MARKET" and "DIGITAL4SCIENCE". Below the header is a navigation menu with options: 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. It includes a link to "Read more about the platform".
- Take part:** A section encouraging users to share their experiences and engage with other researchers. It features a prominent "Join here to take part" button.
- What's New:** A list of recent discussions and library items, each with a lightbulb icon. The items include:
 - discussions: **Trans-national and Virtual Access**
 - discussions: **How to set KPIs that work**
 - discussions: **'devops' in the context of e-infrastructures**
 - discussions: **e-Infrastructures WP2016-2017: are you ready for the TRLs?**
 - library item: **Expectations for the HPC Centres of Excellence - EXDCI and HPC CoE meeting**
- Search:** A search bar labeled "Search Digital4Science" with a magnifying glass icon.
- Blog:** A section titled "Welcome to the Digital4Science platform!" featuring a profile picture of Thierry Van der Pyl and a text block announcing the launch of the platform. Below this, there are two more blog posts:
 - The #D4science hashtag is born!** by Stephanie Mat, with a text block explaining the hashtag's purpose.
 - Let's talk e-infrastructures!** by Augusto Burgueño Argona, with a text block welcoming users to the platform and listing two main areas of focus.

That's all!

Any questions?