Research Infrastructures in the 2016-2017 Work Programme

Research Infrastructures Unit
European Commission – DG Research & Innovation

What's new

➢ A strategic approach with more attention to the contribution to the current political priorities

➢ More integration with other parts of Horizon 2020, in particular the Societal challenges, to exploit synergies and complementarities, and address their identified gaps

➢ New and reinforced emphasis on innovation, sustainability and data exploitation throughout all programme, in particular in actions for advanced communities and established pan-European research infrastructures

➢ Support to large scale initiatives for innovation

➢ New approach for integrating activities with different processes for Starting and Advanced Communities

➢ More open and bottom-up topics

➢ A more coherent WP: Open Research Data pilot and TA/VA provision applicable to both RI and e-infrastructires

Research Infrastructures – Calls

5 Calls – 15 topics

1. **Development and long-term sustainability of new pan-European RIs**

2. **Integrating and Opening RIs of European Interest**

3. *e-Infrastructures*

4. **Fostering the innovation potential of RI**

5. **Support to Policy and International cooperation** *(RI/e-RI)*

Call INFRADEV– Development and long-term sustainability of new pan-European RIs

To support the development of a comprehensive landscape of new sustainable world-class research infrastructures in Europe, helping to respond to challenges in science, industry & society

Emphasis on long-term sustainability, efficient operation, data management and on fostering the innovation potential

1. **Design studies**

2. **Preparatory Phase of ESFRI projects**

3. **Individual support to ESFRI & OWCRI**

4. **Pilot action for a Eur. Open Science Cloud for Research**

INFRADEV-01-2017 - *Design studies*

Support the conceptual and technical design of new research infrastructures, which are leading-edge user facilities of a clear European dimension and interest :

- ➢ *Bottom-up call, aimed at identifying the RIs that really have the potential to become the next generation of European world-class RI*

- ➢ *Total budget 20 M€ - EU contribution per proposal (RIA) between 1-3 M€*

- ➢ *Leading to a 'conceptual or technical design report' through*

  - • *Scientific & technical work: drafting of concepts & engineering plans for the construction; creation of prototypes; work to ensure the take-up and the efficiency of the services provided to scientific communities and*

  - • *Conceptual work: plans to integrate the new RI into the European RI landscape; estimation of budget for construction and operation; plans for an international governance structure; planning of research services to be provided; procedure and criteria to choose the RI site.*

INFRADEV-02-2016 - *Preparatory Phases*

Support the preparatory phase of ESFRI projects:

> *Targeting the new projects in the 2016 update of the ESFRI roadmap*

> *Total budget 40 M€ - EU contribution per proposal up to 4 M€*

> *Coordination & Support Action (CSA)*

> *Leading to a legal and financial agreements for the setting-up of the RI through work on:*

- **Legal** setting;
- **Governance** structure; Management and logistic organisation;
- **Financial** setting for construction, operation and decommission;
- **Strategic** aspects such as socio-economic and local/regional impact;
- **Technical** aspects when necessary to complete the final technical design.

INFRADEV-03-2016-2017
Individual support to ESFRI & OWCRI

To facilitate and support long-term sustainability and efficient operation of the ESFRI & Other World-Class RI (OWCRI):

➢ *Targeting individual ESFRI RI and OWCRI with established legal structure and governance at EU or international level, such as ERIC.*

➢ *Total budget 70 M€ - EU contribution per proposal (CSA) 2 - 5 M€*

➢ *On a competitive basis: proposals must demonstrate their crucial need for the requested support and how this will ensure their sustainability*

➢ *Proposals must also explain complementarities with previous or current EU grants.*

➢ *Covering: membership enlargement, international cooperation, testing and improvement of access provision to users to increase reliability and create trust, definition of business model & service model agreements, outreach and technology transfer.*

INFRADEV-04-2016
European Open Science Cloud for Research

Pilot action to demonstrate how wide availability of scientific data and data-analysis services for European researchers can be ensured through a cloud infrastructure.

➢ *Addressing the federation, networking and coordination of existing research infrastructures and scientific clouds to increase data findability, accessibility and interoperability, and to facilitate re-use of data*

➢ *Total budget 10 M€ - EU contribution per proposal (RIA) between 5 and 10 M€.*

➢ *Designing a stakeholder driven governance framework.*

➢ *Building on existing e-infrastructures and thematic data infrastructures*

➢ *Interrelated to EINFRA-12-2017*

Call INFRADEV Summary

Research Infrastructures (RTD)	2016	2017	TOTAL	Single grant
CALL H2020-INFRADEV-2016-2017	**80**	*60*	*140*	
INFRADEV-10: Design studies		*20*	*20*	From 1 to 3 M€
INFRADEV-02: Preparatory Phase	40		40	Up to 4 M€
INFRADEV-03: Individual Support	30	*40*	70	From 2 to 5 M€
INFRADEV-04: Eur. Open Science Cloud	10		10	From 5 to 10 M€

Deadlines: **30 March 2016** **22 June 2016** *29 March 2017*

Call INFRAIA – Integrating and opening RIs of European interest: *Integrating Activities*

To open up key national and regional research infrastructures to all European researchers and to ensure their optimal use and joint development:

1. **INFRAIA-01-2016-2017: IA for Advanced communities: whose RIs show an advanced degree of coordination gained through previous IA grants**
   One stage call. Targeted approach based on a Multi-Annual Plan (MAP)
   Total budget 160 M€ - EU contribution per proposal (RIA) up to 10 M€

2. **INFRAIA-02-2017: IA for Starting communities: never supported for their RI integration under EU FP7 or Horizon 2020 calls, in particular within an IA**
   Two-stage call. Bottom-up approach
   Total budget 40 M€ - EU contribution per proposal (RIA) up to 5 M€

Integrating Activities

➤ **Three mandatory components:**
  - ✓ **Networking;**
  - ✓ **Trans-national / Virtual Access;**
  - ✓ **Joint Research Activities for the improvement of RI services.**

➤ **max one proposal per area is expected to be funded, as IAs aim to coordinate & integrate key RI in given fields avoiding duplicate efforts**

➤ **access to be provided only to key RI of European interest, able to attract significant numbers of TA users. Other national and regional RI can be involved in the other activities of the proposal.**

➤ **proposals should take into due account all relevant ESFRI RI to exploit synergies and to ensure coherency in the EU RI landscape**

➤ **proposals should address innovation capacity (technology transfer, participation of SMEs, instrumentation development), international dimension, management of generated data…**

INFRAIA-01-2016-17: *Integrating Activities for AC*

Emphasis on innovation aspects, on widening trans-national and virtual access provision, on novelties with respect to previous grants, and, in particular for "super advanced" communities, on addressing the sustainability of the integrated RI services provided at European level through, e.g., the involvement of funders and the preparation of a business/ funding plan beyond the end of the project.

Criteria for prioritisation in the MAP:

➢ *Contribution & support to other H2020 parts and/or to break-through research*

➢ *Contribution to EU strategic priorities*

➢ *Coverage of emerging needs*

Previous GA timing and performance taken into account

INFRAIA-02-2017: *Integrating Activities for SC*

Emphasis on networking, standardisation and establishing a common access procedure for trans-national and/or virtual access provision.

- ➤ *All areas of science and technology considered*
- ➤ *Proposals should not restrict their services to too narrow research fields and should address the wider scientific communities, even multidisciplinary ones, which can be served by the involved sets of RIs.*
- ➤ *SC should organise the key RIs in their domain*
- ➤ *Two-stage call as large oversubscription expected*
- ➤ *Short proposal 20 pages, only proposals for 3 times the available budget will pass to the second stage (full proposal)*

Call INFRAIA Summary

Distribution of Advanced Communities areas by domain

Domain	N. of areas	Domain	N. of areas
Bio Medical Sciences	7	Material and Analytical Facilities	4
Energy	2	Physics	4
Environment	7	Social Sciences and Humanities	2
ICT	1		
		Total number of areas	27

Research Infrastructures (RTD)	2016	2017	TOTAL	Single grant
CALL H2020-INFRAIA-2016-2017	88	*112*	*200*	
INFRAIA-01: IA for Advanced communities	88	*72*	*160*	Up to 10 M€
INFRAIA-02: IA for Starting communities (two-stages)		*40*	*40*	Up to 5 M€

Deadlines: **30 March 2016 (INFRAIA-01 and INFRAIA-02 1st stage)**
29 March 2017 (INFRAIA-02 2nd stage)

Call INFRAINNOV - Fostering the innovation potential of Research Infrastructures

INFRAINNOV-01-2017 – Fostering co-innovation for future detection and imaging technologies

Establishment of a novel research and innovation collaborative framework to support technology and innovation transfer from RI towards industrial partners and joint development of high-tech components

➢ *Total budget 20 M€ - EU contribution per proposal (RIA) up to 20 M€*

➢ *Financial support to third parties*

INFRAINNOV-02-2016 – Support to Technological Infrastructures

Development of strategic agendas & roadmaps for key technologies for the construction/upgrade of RI, identification of potential markets, exchange of good practices, …

➢ *Total budget 10 M€ - EU contribution per proposal (CSA) up to 2 M€*

➢ *Expected to cover at least five different technological domain of interest for pan European RI*

Call INFRAINNOV Summary

Research Infrastructures (RTD)	2016	2017	TOTAL	Single grant
CALL H2020-INFRAINNOV-2016-2017	**10**	*20*	*30*	
INNOV-01-2017: Fostering co-innovation		*20*	*20*	Up to 20 M€
INNOV-02-2016: Technological Infrastructures	10		10	Up to 2 M€

Deadlines: **30 March 2016**   *29 March 2017*

Call INFRASUPP - Policy and International cooperation

INFRASUPP-01-2016 – Policy and INCO measures for RI

1. *Synchronising and harmonisation of RI evaluation mechanisms and road-mapping*
2. *International landscaping exercise for RI*
3. *Bilateral cooperation on RI with Africa*
4. *Training needs of SESAME, Jordan*

➢ Total budget 8 M€ - EU contribution per proposal (CSA) 1.5 – 2 M€

INFRASUPP-02-2017 – Policy and INCO measures for RI

1. *Development of a model describing the socio-economic leverage of RI*
2. *Cooperation between EU and strategic partners for the development of global RI*
3. *Support to RDA secretariat, participation of new communities and ESFRI RI and emergence of building blocks for interoperable data infrastructure (CNECT/RTD)*

➢ Total budget 6,5 M€ - EU contrib. per proposal (CSA) (1) & (2): up to 1.5 M€;

(3): 3 - 3.5 M€

Call INFRASUPP Summary

Research Infrastructures (RTD / CNECT)	DG	2016	2017	TOTAL	Single grant
CALL - H2020-INFRASUPP-2016-2017	**RTD**	**8**	*4*	*12*	
	CNECT	*7,5*	*2,5*	*10*	
INFRASUPP-01-2016: Policy and INCO for RI	RTD	8		8	From 1,5 to 2 M€
INFRASUPP-02-2017: Policy and INCO for RI	RTD		*4*	*4*	Up to 1,5 M€ or From 3 to 3,5 M€
	CNECT		2,5	2,5	
INFRASUPP-03-2016: Policy and INCO for e-RI	CNECT	7,5		7,5	From 0,3 to 3 M€

Deadlines: **30 March 2016**   *29 March 2017*

Other actions

Presidency event: Launch of the 2016 ESFRI Roadmap

➢ *Dutch Presidency - 2016 first half*

➢ Total budget 0.1 M€

External expertise

➢ *Reviewers, experts for the implementation of the EU R&I policies and ERA achievement , experts for H2020 interim evaluation and experts for ERIC evaluation*

➢ Total budget 0.8 M€ in 2016 - 0.8 M€ in 2017 – RTD/CNECT