



2017-3 CEF Telecom Call: Public Open Data (HPC)

Leonardo Flores Añover

Senior Expert - High Performance Computing and Quantum Technologies
DG CONNECT - European Commission

Public Open Data - HPC

- **New**: support in CEF to the deployment and use of high performance computing (HPC), storage and data management facilities in the frame of DSIs – to allow public sector as well as business and citizens to take full advantage of new services built over supercomputers
- A first step to establish a new generation of DSIs supporting the Digital Single Market priorities with HPC:
 - towards a full coordination of effort in the development and federation of a large scale European HPC and Big Data service infrastructure facility serving a wide range of different stakeholders
- Call 2017: exploitation of synergies between the Public Open Data DSI and HPC for processing open public information datasets– **the new focus is on demonstrating the need and the value of combining public data and supercomputers**

Public Open Data – HPC Call Overview

- Budget: **€6 million**
- Max. funding per action: **€2.5 million**
- Max. co-funding rate: **75% of total eligible costs**
- Pre-financing: **up to 50% of the grant amount**
- Indicative duration of the actions: **24 months**

Public Open Data – HPC

Specific Eligibility Criteria

Consortium composition

- There are no minimum consortium requirements for this call (*one or more eligible organisations from one or more eligible countries*)

Public Open Data - HPC: Legal framework

- *Commission communication on Open Data (COM(2011) 882 of 12 December 2011) – Open Data: an engine for innovation, growth and transparent governance*
- *Directive 2003/98/EC - 2013/37/EU on the re-use of public sector information (PSI)*
- *Commission notice 2014/C 240/01 - Guidelines on recommended standard licences, datasets and charging for the reuse of documents*
- *"European Cloud Initiative – Building a competitive data and knowledge economy in Europe" (COM(2016) 178):*
 - to deploy the European Data Infrastructure with HPC capabilities, fast connectivity and data capacity, aiming at expanding the user base for research, industry and the public sector.

Public Open Data - HPC: Objectives

- **Better use of public data** for citizens, supporting more optimal use of resources for economic actors and helping fact-based decision making for public authorities
- Development of future **new generations of public services** exploiting **supercomputing facilities** to analyse complex combinations of large public datasets in areas of public interest
- **Outcome of the proposed actions: services that demonstrate the need and the value of combining public and open data and supercomputing resources**
 - public and open data available and accessible from different sources, including (but not exclusively) through the European Data Portal
- Where relevant, such services should make use of the **INSPIRE interoperability framework** (infrastructure for sharing of spatial information across Europe, based on Directive 2007/2/EC and its Implementing Rules for specific issues, such as metadata etc.)

Public Open Data - HPC: Objectives

- Proposals **must** address all of the following (1/2):
 - identify the service and a clear set of cases including the targeted application area and/or cross-areas
 - identify the relevant input data (including public sector datasets) and ensure seamless access
 - demonstrate the need of using supercomputing resources to achieve the stated goals
 - demonstrate the availability and the access to supercomputing resources (including an estimation of the required level of such resources), either in-house through applicants, arrangements with supercomputing facilities and/or contracted as necessary

Public Open Data - HPC: Objectives

- Proposals **must** address all of the following (2/2):
 - ensure that relevant datasets (including metadata) resulting from the action are published on a national portal or catalogue that is harvested by the European Data Portal. If such publication on a national portal or catalogue is not possible, applicants must duly justify the reasons why and ensure that the relevant datasets (including metadata) resulting from the action will be made publicly available as open data;
 - ensure that data and associated metadata generated by the supercomputers for the different applications is conformant/interoperable with the standards adopted by the targeted public services, including for seamless upload onto a national/domain related Open Data portal and the European Data Portal.

Public Open Data - HPC: **Objectives**

- Proposals **may** also:
 - identify/develop and integrate the necessary software and adapt it to the datasets
 - describe the connectivity between data and computer node(s)
 - include business cases to operate the service with the necessary support and maintenance
 - provide relevant training activities
- Actions selected following this call will include **mandatory compliance testing** as determined by the Commission service responsible for the European Data Portal

Public Open Data - HPC: Objectives

- **What IS eligible for financing**
 - Proposals demonstrating **the use** and **the need** of **supercomputers** (HPC) for processing of public/open data
 - No restrictions on the application domain of the service or input data sets
 - Output (**relevant** data/datasets and metadata):
 - published on a national portal or catalogue that is harvested by the European Data Portal (unless duly justified, in which case: open data)
 - conformant/interoperable with the standards adopted by the targeted public services, including for seamless upload onto a national/domain related Open Data portal and the European Data Portal
- **What IS NOT eligible for financing**
 - Proposals that do not demonstrate the use and the need for supercomputers (HPC) and/or do not contribute to public/open data (national/European portals, others) are not eligible for funding

Public Open Data – HPC Award criteria

Relevance:

- Alignment to DSI implementation objectives & activities (WP), including e.g.:
 - What is the service(s) – What are the cases and what is the application area(s)?
 - What is the relevant input data (including public sector datasets), how is seamless access ensured?
 - What is the need of using supercomputing resources? What are these resources, how much and how are they accessed?
 - How the proposal will contribute to achieve a new generation of cross-border and intelligent services for citizens, enterprises and supporting decision-making for public authorities?
- Alignment to EU/national policies, strategies and activities, including e.g.:
 - How the proposal contributes to the exploitation of large scale cross-border and cross-sector public information datasets using supercomputers and widens the use of HPC (European Cloud initiative: [COM\(2016\)178](#); Communication on Open Data: [COM\(2011\)882](#) and the Public Sector Information Directive 2003/98/EC)

Public Open Data – HPC

Award criteria

• Quality & efficiency:

- Maturity e.g. is it a new service, or builds on an existing one? does the proposal demonstrate that the proposed action is technically mature e.g. diagrammatic representation of the high-level architecture of the solution
- Coherence/effectiveness of work plan e.g. are the HPC resources adequate for the objectives? Is the software adequately developed and adapted to datasets? Are connectivity needs well identified and described?
- Quality of consortium/consortium members
- Support from national authorities/industry/NGOs
- Attention to security/privacy/accessibility (inclusiveness, where relevant)

• Impact & sustainability:

- Quality of the approach to facilitate wider deployment/take-up of the proposed actions e.g. what are the specific dissemination activities to target users? Are other potential users/countries/public administrations etc. well identified? Are there specific training activities (where relevant)?
- Capability of long-term sustainability without EU funding e.g. are there business cases to operate the service with the necessary support and maintenance? in case of sub-contracting of core tasks how will the knowledge-transfer be organised?

Public Open Data - HPC: Other information

- **Call webpage:**

<https://ec.europa.eu/inea/en/connecting-europe-facility/cef-telecom/apply-funding/2017-cef-telecom-call-public-open-data-cef-tc>

- **Please check the **Call text** in the Call webpage**

- **Background info online on the HPC strategy:**

<https://ec.europa.eu/digital-single-market/en/policies/high-performance-computing>

- **Link to the European data portal:**

<https://www.europeandataportal.eu/>

More information on the calls...



inea-cef-telecom-calls@ec.europa.eu
inea@ec.europa.eu



<https://ec.europa.eu/inea/en/connecting-europe-facility/cef-telecom/apply-funding/2017-cef-telecom-calls-proposals>



@inea_eu



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Thank you!