

EINFRA-11-2016

Topic's content support document

Disclaimer:

This supporting document draws on different documents relevant for the content of EINFRA-11-2016 proposals. It has been prepared with great care as aide memoire to help evaluators bear in mind the various elements to be included in the proposals, as described in the Work Programme 2016-17 (WP) and Specific Proposal Template (ST). It also aims at helping evaluators substantiate their assessment. When it comes to filling in the evaluation forms, only the three official evaluation criteria (Excellence, Impact and Implementation) and their explanatory sub-criteria should, however, be replied to.

Please note that this document has no additional legal value. For legal purposes, reference should always be made to the official H2020 documentation listed below.

We encourage evaluators to bring this summary along to the consensus meeting as supporting material.

References:

WP Research Infrastructures Work Programme 2016-17

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-infrastructures_en.pdf

GA General Annexes to the WP

http://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2016-2017/annexes/h2020-wp1617-annex-ga_en.pdf

ST Specific proposal template for EINFRA-11-2016

http://ec.europa.eu/research/participants/data/ref/h2020/other/call_ptef/pt/h2020-call-pt-einfra-ria-11-2016_en.pdf

DMP Data Management Guidelines

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf

OA Open Access Guide

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

Topic

EINFRA-11-2016

Support to the next implementation phase of Pan-European High Performance Computing infrastructure and services (PRACE)

Type of

Action: RIA

Points related to the EXCELLENCE criterion

Item	Checklist	Source
1	The objectives of the project have been clearly described.	ST, page 16 GA, page 36
2	The objectives described are measurable, realistic and achievable within the duration of the project and the proposed methodology.	ST, page 16
3	The objectives of the project are consistent with the expected exploitation and impact of the project.	ST, page 16
4	The proposal indicates clearly to which topic in the work programme relates, and explains how it addresses the specific challenge and scope of that topic, as set out in the work programme. (The proposal is in/out of scope).	
5	<i>- Proposals are expected to Provide a seamless and efficient Europe-wide Tier-0 service to users, based on promoting research excellence and innovation; this includes peer-review procedures for the allocation of computing time; transparent billing; and specific services adapted to the needs of European Research Infrastructures (including e-Infrastructures) users, including ESFRI projects, Horizon 2020 projects/programmes, large institutional users or industry.</i>	
6	<i>- Proposals are expected to carry out activities (training, service prototyping, software development etc.) that build on national HPC capabilities (Tier-1) and are necessary to support Tier-0 services or a functional European HPC ecosystem.</i>	
7	<i>- Proposals are expected to ensure openness to new user communities and new applications; promote industrial take-up of HPC services in particular by SMEs.</i>	
8	<i>- Proposals are expected to implement inclusive and equitable governance and a flexible business model to ensure long term financial sustainability; the business model should allow financial or in-kind contributions by research projects/programmes, institutions, industry and regions or countries; based on an auditable cost model for the operation of HPC Centres providing European services with different financing sources.</i>	
9	<i>- Proposals are expected to develop and maintain the strategy for the deployment of a rich HPC environment of world-class systems with different machine architectures - evolving towards exascale - including the implementation roadmap at EU and national level, taking into account financial aspects, best practices for reduction of operating and energy costs, and the specifications and technical requirements for a varied set of Tier-0 systems ensuring a broad coverage of user needs.</i>	ST, page 16 WP, page 31-32

10	<i>- Proposals are expected to work in synergy with the European Technology Platform for HPC (ETP4HPC) and the Centres of Excellence in HPC applications in support of the European HPC strategy towards the next generation of computing systems, technologies and applications. In particular, the mechanisms to be put in place by PRACE for the provision of technical specifications to guide research activities for future exascale prototypes and systems, for the testing and demonstration of such exascale solutions, for the identification of new user needs in the use of next generation computing systems evolving towards exascale, and for the reaching out to scientific and industrial communities and the transfer of know-how for the use of HPC.</i>	
11	<i>- Proposals are expected to design and execute training and skills development programmes tailored to the needs of research in academia and industry and relevant public services in order to stay at the forefront of scientific breakthroughs, as well as introduction of scientific computing and HPC in academic curricula.</i>	
12	<i>- Proposals are expected to develop an international cooperation policy and associated activities in the area of HPC aiming at systems interoperation.</i>	
13	The proposal describes any national or international research and innovation activities which will be linked with the project, especially where the outputs from these will feed into the project (if not covered in previous points).	ST, page 16
14	The proposal has considered existing operational services to the greatest extent possible (if not covered in previous points).	ST, page 16 WP, page 74
15	Service orientation. The project will contribute to the production of a high quality catalogue of services describing the services that they will provide during the lifetime of the project or that they intend to develop during the project (if not covered in previous points).	WP, page 29-30
16	The proposal describes the extent to which the Service Activities (Trans-national and/or Virtual Access Activities) will offer access to state-of-the-art infrastructures and high-quality services, and will enable users to conduct excellent research (by both the quality of the associated catalogue of services and the baseline and expected future measurements of related KPIs). (If not covered in previous points).	ST, page 17
17	The proposal describes how the services developed will be made discoverable on-line, searchable in a catalogue of services or digital registry	ST, page 16 WP, page 74
18	The proposal demonstrates that the concerned platforms and services are based on systems and technologies that have reached TRL 8 before the start of the project.	ST, page 16 WP, pages 30, 44, 76
19	The proposal describes adequately, in terms of Networking Activities (NA) & Service Activities (SA), the activities it intends to carry out	
20	The activities described in each category (NA, SA & JRA) fit with the definitions provided in the Work Programme (e.g. compliance with TRL guidelines; involvement of SME's...)	ST, page 16 WP, page 75

Points related to the IMPACT criterion

	Checklist	Source
21	The proposal describes the extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the Work programme under the relevant topic:	
22	<i>- The successful response to this area will improve services and procedures for user access to HPC infrastructure resources and services.</i>	
23	<i>- Allocation schemes fostering openness to new user communities and applications will increase the amount of computing cycles available to researchers at European level through user-friendly and efficient procedures.</i>	
24	<i>- This initiative will increase the number of industrial organisations (in particular SMEs), EU projects and institutional users benefiting from access to services including training in HPC.</i>	
25	<i>- Benefits will also translate in increased investment in HPC infrastructure in Europe (national, regional and EU), long term financial sustainability through flexible business models and inclusive governance, better coordination between demand and supply in the European HPC ecosystem, with improved collaboration of the users and procurers with technology developers and suppliers to foster innovation.</i>	ST, page 17 GA, page 36 WP, page 32-33
26	The proposal demonstrates the potential to enhance capacity for innovation and production of new knowledge.	ST, page 17 WP, page 44
27	The proposal defines Key Performance Indicators (KPI) with which to measure the impact of the action. The proposal describes the collection and how it will make KPIs available in support of operational, technical and socio-economic impact assessment.	ST, page 17 WP, pages 29,75
28	Software development within the project is Open Source development and includes the appropriate licenses. Any deviation is properly justified.	ST, page 18 WP, page 75
29	The proposal includes a dissemination plan with quality measures to exploit and disseminate the project results (including management of IPR), and to manage research data where relevant.	ST, page 17-18 GA, page 37 WP, page 75
30	The proposal includes quality measures to communicate the project activities to different target audiences	ST, page 17 GA, pages 37-38
31	The proposal includes a section on research data management. Note: This is mandatory for all RIA actions. This should not be mixed up with the Data Management Plan (DMP) required by the Open Research Data pilot.	ST, page 18 DM, page 2

Points related to the QUALITY & EFFICIENCY OF THE IMPLEMENTATION criterion

	Checklist	Source
32	The proposal includes a high quality and effective work plan.	ST, pages 19-20 GA, page 36
33	Resources assigned to work packages are in line with their objectives and deliverables.	
34	The work plan provides an appropriate allocation of tasks, ensuring that all participants have a valid role and adequate resources in the project to fulfil that role.	ST, pages 19-20 GA, page 37
35	The proposal describes appropriately the management structures and procedures	ST, pages 20 GA, pages 36-37
36	The proposal describes appropriately the risk management approach.	
37	The proposal describes appropriately the innovation management approach.	
38	The proposal describes the organisational structure and decision-making mechanisms and explains why they are appropriate to the complexity and scale of the project.	ST, page 20
39	The proposal addresses the complementarity of the participants and the extent to which the consortium as whole brings together the necessary expertise	ST, pages 21 GA, page 37
40	<p>The proposal opts out of the Pilot Action on Open Research Data (Y/N) If NO, the proposal must include a 'data management plan' (DMP) as a distinct deliverable within the first 6 months of the project.</p> <p>Note:</p> <p>a) Participation in the Open Research Data pilot is voluntary. You, as an evaluator, will not consider positively or negatively the participation or not in the pilot, neither the reasons that justify that choice.</p> <p>b) In this RIA action, all proposals participate by default in the Open Research Data pilot. Proposals opting out must explicitly indicate this choice.</p>	ST, page 18 DM, pages 3-4