



# **EXDCI and HPC CoE meeting:**

## **CoE Expectations**

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# CoE projects



## **CoEs are expected to be:**

(1) ***User-driven***, with the application users and owners playing a decisive role in governance;

**Who are the users, which application, what is the role of the users?**

(2) ***integrated***: encompassing not only HPC software but also relevant aspects of hardware, data management/storage, connectivity, security, etc.:

**What type of integration & how will it be implemented?**



# CoE projects



## **CoEs are expected to be:**

(3) **multidisciplinary**: with domain expertise co-located alongside HPC system, software and algorithm expertise;

### **Which expertises are available?**

(4) **distributed** with a possible central hub, federating capabilities around Europe, exploiting available competences, & ensuring synergies with national/local programmes;

**What steps are being proposed? Anything missing and its significance?**



# CoE projects



## **CoEs will address provision of services such as:**

- *developing, optimising and scaling HPC application codes towards peta & exascale computing;*
- *testing, validating & maintaining codes & managing the associated data; quality assurance;*
- *co-design of hardware, software & codes;*
- *consultancy to industry & SMEs;*

**How close to exascale?**

**Which & what co-design will be implemented?**

**When are results expected?**

**Which codes will be available?**

**Which will be Open source?**

**What co-operation with industry & SMEs is anticipated?**

# CoE projects



## **CoEs will address:**

*Sustainability embracing a wide range of service models and funding from a mixture of sources, including through sponsorship by industry or hybrid public-private models. Clear business plans are expected to be presented.*

**Which service models are proposed and how that will be implemented?**



# CoE projects



## CoEs will address:

*Creating communities around specific codes that impact the target sectors, involving ISVs where appropriate, & exchange of best practices in particular for SMEs.*

**Which codes for what communities?**

**How to build critical mass? How to be a focal point?**

**Which is the role of ISVs?**

**Which best practices and how to exchange?**

**Which SMEs will be targeted?**



# CoE projects



## **CoEs will address:**

*A **governance structure** driven by the needs of the users. Commercial management expertise will be needed along with technical expertise to manage industry clients and supply chains, in addition to users from academia.*

**Which governance structure? Commercial expertise?**

*CoE should provide **pan-European support** including to EU countries & regions with less HPC-resources*

**What & how pan-European support will be made available?**



# CoE projects



*PRACE has reserved 0.5% of their available computational resources for the HPC CoEs.*

**How do you plan to use these computational resources?**







## **Kick-off meetings: Suggestions**

***Press release*** (project as a whole and also by at least by some of the partners locally)

***Website for the project*** ( as soon as the project starts)

***Brochure*** and easily understandable information of the project

***Mobilise*** the stakeholders/constituents

***Critical mass*** (ie how the project can stand out as a major force in that sector, and identify steps to be taken to build it)





## **Kick-off meeting: Suggestions**

***Digital4Science Platform Discussion Forum***

***<https://ec.europa.eu/futurium/en/digital4science>***

***eConcertation Meeting on 9<sup>th</sup> November 2015,  
Brussels***

***Success Stories: On a regular basis, plan to  
publish 'success stories', when the project  
achieves significant result.***

***Liaise with EXDCI***





*The use of the EU emblem in the context of EU programmes - Guidelines for beneficiaries and other third parties:*

[http://ec.europa.eu/dgs/communication/services/visual\\_identity/pdf/use-emblem\\_en.pdf](http://ec.europa.eu/dgs/communication/services/visual_identity/pdf/use-emblem_en.pdf)

*Graphics guide to the European flag (emblem)*

<http://publications.europa.eu/code/en/en-5000100.htm>

*Originals for reproduction EU logo:*

[http://europa.eu/about-eu/basic-information/symbols/flag/index\\_en.htm](http://europa.eu/about-eu/basic-information/symbols/flag/index_en.htm)

*Please add link to the e-infra page on Digital Agenda Europe:*

<http://ec.europa.eu/digital-agenda/en/digital-infrastructures>





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*Questions?*

