**Survey of e-infrastructure requirements for research facilities**

This document is a questionnaire to gather information about the requirements for the use of e-infrastructures by research facilities such as those represented by the European Strategy Forum
on Research Infrastructures (ESFRI) projects.

This questionnaire has been prepared by the **European E-Infrastructure Forum** (EEF) which is a forum for the discussion of principles and practices to create synergies for distributed Infrastructures. The goal of the EEF is the achievement of seamless interoperation of leading e-Infrastructures serving the European Research Area. The focus of the forum is the needs of the user communities that require services which can only be achieved by collaborating Infrastructures. Its current membership includes GEANT, Terena, EGEE, EGI, DEISA and PRACE. The forum recognises the importance of data access and management and is seeking to add a member specialising in service provision in this area for multiple research communities.

EEF is working with European Infrastructure Policy Group (eIRG) and ESFRI to gather and analyse research infrastructure requirements. Based on the information received, a summary report will be produced and distributed to all respondents, relevant policy bodies and used as input to a roadmap intended to address the common e-infrastructure needs. Only summary information from the responses received will be distributed.

As the recipient of this questionnaire, we ask to you answer the questions and return the completed document to the email address below. If you already have documents that provide the requested information, please provide pointers (i.e. URLs) to such documents in response to the questions.

We thank you in advance for your participation and should you have any further questions please do not hesitate to contact us at the email address below.

European E-infrastructure Forum
<http://www.einfrastructure-forum.eu/>
**Europe-einfrastructure-forum@cern.ch**
Date: 24th January 2010

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**Question 1: Contact details**

Respondents Name:

Respondents Email address:

Respondents Institute:

Research facility represented (e.g. ESFRI project name):

**Question 2: ICT vision**

Please outline how ICT (Information and Communication Technologies) contributes to the overall research facility vision and goals.

**Question 3: Outline the major ICT requirements taking into account aspects such as:**

*Data sources (from the facility, outside sources etc. – where and how the data originates)*

***Storage*** *needs (scale, longevity, update rate etc.)*

 *– Average size of the datasets & files*

*– Expected growth patterns and rates (e.g. 1 TByte/day or /month)*

***Compute*** *needs (e.g. scale and specific computing architecture requirements)*

***Networking*** *(distribution of data sources, user communities etc.)*

*Please consider the following aspects in responding to this point:*

*Required network usage:*

*Access to the data/information by many users e.g. “web site” data access*

*Bulk data transfers to some “well known” sites*

*Real-time or time critical data movement*

*Other use of the network*

*Expected patterns of moving data:*

*Continual replication or movement of data e.g. 1 TByte/day transmitted throughout the day*

*Periodic rapid transfer of data (e.g. 1 TByte transmitted in 1 hour every 10 hours)*

*Other patterns of communication over the network*

***Security*** *(for data access etc.)*

***Access*** *for user community (estimate size of community, geographical location etc.)*

**Question 4: ICT architecture**

If you have already defined an ICT architecture then please provide an overview and diagram.

**Question 5: Current Status & Timeline**

Please state what is the current status of your ICT planning and eexplain what is the timeline for the construction and operation of your research facility. What are the key dates for your computing infrastructure?

**Question 6: Challenges and suggestions**

Highlight what you see as the major unresolved challenges for the ICT aspects of your research facility. List any suggestions for how European ICT structures (grid, networks, super-computing) can work with/help your research facility.

**Any additional information or comments:**