Co-ordination & Harmonisation of Advanced e-INfrastructures

The CHAIN Roadmap – First thoughts

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Task 4.3 Roadmap

Roadmap for the follow-up of the project which will address the timeline of implementation, based on the following pillars:

- ▶ a detailed analysis of the changes that will have taken placeoccurred in the European Grid Infrastructure with the new organisational structure;

- ▶ the characteristics of the non-European e-Infrastructures, highlighting commonalities and differences including, but not limited to, organisation, HPC, Middleware, Security, Accounting, User Support;

- ▶ the opportunities offered by the present and emerging standards with recommendations on the support of new possible standards;

- ▶ the emerging paradigms of Virtualisation, Voluntary Computing and Cloud Computing.

D4.4, final deliverable of WP4, according to project DoW

Road-map of follow-up activities:

This deliverable provides a proposal of a road-map for existing and emerging e-Infrastructures in the different regions and the follow-up activities that will be needed to deploy the organisational approach provided in D4.2.

▶ **D2.2: Interoperability and interoperation guidelines:**

   This deliverable provides an analysis of the questionnaire data and proposed solutions for regional organisational and operational interactions.

▶ **D4.1: Specificities of the various regional e-Infrastructures**

   This deliverable will highlight and justify the different activities that are needed to properly take into account the diversities of the regions.

▶ D4.2: Report on the the applicability of the preliminary results of the Organisational Study

This deliverable will present the results of the pilot to demonstrate the applicability of the preliminary results of T4.1 work. The activity will involve a couple of different regional situations such as: a developing region with European based Middleware (e.g. Mediterranean or Africa) and a well established regional eInfrastructure with different middleware (e.g. China or India).

Inputs to this work

Review recommendation #2 "Roadmap":

The reviewers regard the set of recommendations compiled in D2.2 as highly relevant to the project. We recommend developing the following questions in more detail:

- ▶ Why is this recommendation important? How does it align to CHAIN's objectives?

- ▶ Whom are the recommendations addressing?

- ▶ How can CHAIN support them in doing what they can do or further the uptake of a recommendation?

- ▶ What are the specific actions necessary?

The recommendation should be tackled as soon as possible as it should feed into CHAIN's strategy for the remaining period of the project.

Proposed roadmap contents

Foreseen main sections of D4.4

- ▶ EGI status overview
- ▶ Common recommendations on organizational model
- ▶ Common technical recommendations
- ▶ Global VRCs
- ▶ Region-specific recommendations

Proposed roadmap contents

EGI status overview

- ▶ Provide a consistent snapshot – reference point
    - ▶ EGI environment and organization structure changes over time
    - ▶ CHAIN was prepared when EGI Blueprint etc. were fresh
    - ▶ Those documents are superseded now
    - ▶ The changes don't stop
- ▶ Include highlights of current EGI visions and long term strategy

Proposed roadmap contents

Common recommendations on organizational model

- ▶ Based on "ROC" approach
    - ▶ EGI-NGI model does not scale beyond Europe
    - ▶ Regions organize unique entities to interact with EGI
    - ▶ Peer-to-peer relationships at this level
    - ▶ Confirmed at CHAIN-EGI interoperation workshop (Jan 2012)
- ▶ Recommended organization of the ROC
    - ▶ invent other name eventually, to avoid overlap with former EGEE ROCs
- ▶ Cover relevant items of D2.2
    - ▶ updated according to the reviewers' comments

Proposed roadmap contents

Common technical recommendations

- ▶ Choice of technology to implement areas covered by the organizational model
  - ▶ provide multiple options when appropriate (e.g. helpdesk integration)
- ▶ Specific focus on interoperability at technical level
- ▶ Portals and scientific gateways
- ▶ Emerging technologies (clouds, . . .)

Proposed roadmap contents

Global VRCs

- ▶ How to deal with global communities
- ▶ Define interfaces of VRCs vs. EGI-ROCs organization
- ▶ Avoid building parallel infrastructure
    - ▶ align with EGI strategy
    - ▶ be positive – find motivation to overcome the initial barrier

Proposed roadmap contents

Region-specific recommendations

- ▶ Specific sections for each region
  - ▶ according to D2.2 and D4.1
  - ▶ both organizational and technical issues
- ▶ To be provided by the regional partners
- ▶ Include realistic visions
  - ▶ what can be achieved by 2020
  - ▶ not current state – it is in previous documents
- ▶ Template will be provided in April

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Summary

- We have enough information to start the work
- Tentative TOC of D4.4 is available
  - further suggestions/questions are welcome
- Identified responsibilities for WP4 leader and partners in the regions
- Room to address reviewers' comments

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