Federated Clouds Task Force

EGI Technical Forum – Lyon 19-23 September

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Outline

- TF objectives

- TF outputs

- TF timeline and milestones

- TF principles

- TF activity report

- TF technical roadmap

Objectives

Federation blueprint: securely federate and share virtualised environments as part of the EGI production infrastructure.

- **Integration**: integration of virtualised resources with EGI's production infrastructure – e.g. monitoring, accounting and resource advertising.

- **End-user requirements**: elicit requirements for community-facing services for virtualised infrastructure deployments.

- **Technical feedback**: feedback to technology providers on any changes needed for the deployment of their implementations.

- **Early adopters**: identify and work with user communities willing to be early adopters of the resulting virtualised infrastructure.

- **Recommendations**: identify issues that need to be addressed by other areas of EGI – e.g. policies, operations, support and dissemination.

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Outputs

- **Blueprint document**: advice/full documentation to resource providers/users on how to engage with the federated virtualised environment. This will be a living document on the EGI Wiki.

- **Exemplar case study**: methodology description for a sample community to deploy services to create their production infrastructure.

- **Engagement**: identification of resources centres and user communities willing to commit actively to this Task Force.

- **Reports**: regular reports to the TCB on progress including the identification of issues that need to be considered elsewhere within EGI.

- **Dissemination**: periodic "success stories" through dissemination channels.

Roadmap
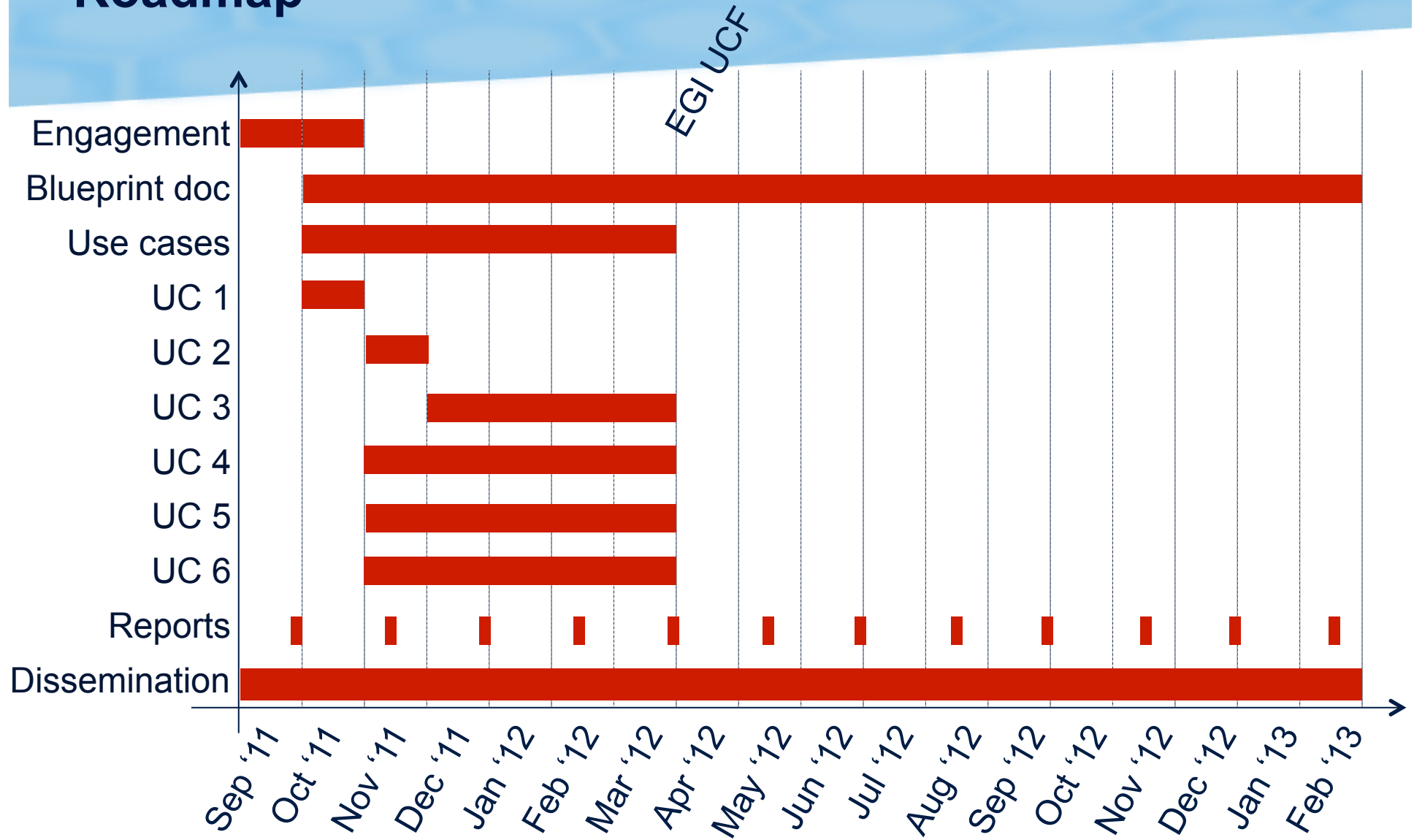
Guiding Principles

- **Standards and validation**: the goal of the TF effort is to produce a validation procedure for clouds federation based on the emerging standards in Cloud Computing. E.g. OVF, OCCI, CDMI, etc.

- **Resource typologies**: EGI offers already a number of validated services to the community. Virtualisation and Cloud Computing should be considered just as another type of resource to integrate into the existing production infrastructure.

- **Heterogeneous implementation**: there should be no specific mandate on the implementation of virtualisation/cloud technology but only the validation of a prescribed set of functionalities, standards and interfaces.

- **Provider agnosticism**: no distinction should be made on the nature of each provider. Private, public, research and business oriented should make no difference once the federation criteria have been established and agreed upon.

Progress Report

Task Force resources

- Mailing List: fedcloud-tf@mailman.egi.eu
- Wiki site: http://go.egi.eu/tf-fedclouds
- Indico site: https://www.egi.eu/indico/categoryDisplay.py?categId=56
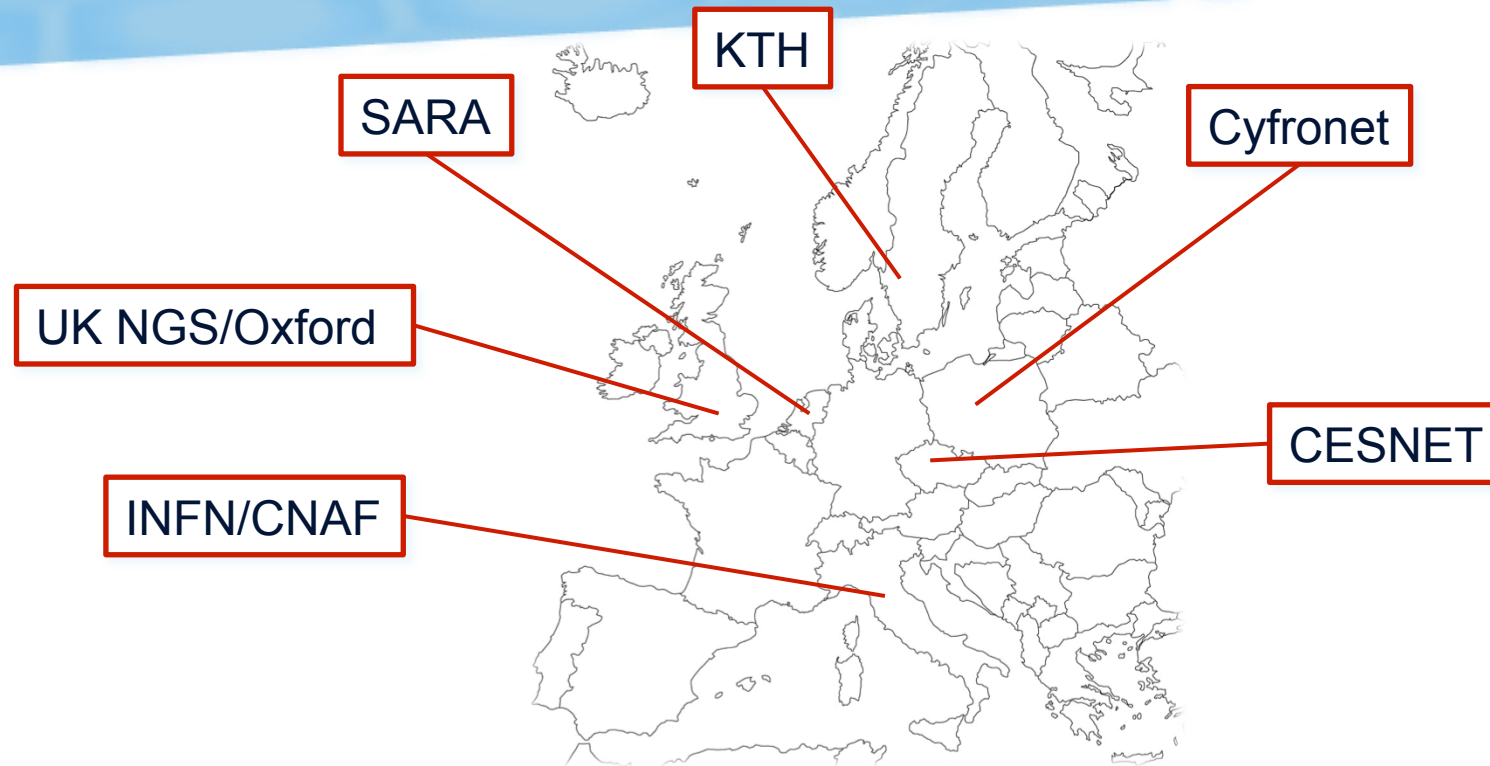
Task Force operations

- Weekly conference call, Tuesday 11am CET.

Task Force activities

- Joining TF members.
- Collecting documentation about resource providers.
- User community outreach.
- Technical road-map.

Resource Providers

- **Join now!** New resources providers are welcome.

- **RP resource inventory**: collected on the TF wiki site.

- **Documentation repository**: collect and centralise the available RP documentation.

Technology Providers and User Communities

Technology Providers

- StratusLab

- EGI-InSPIRE JRA1

- Undergoing contacts with other TPs

User Communities (work in progress)

- ELIXIR: pan-European research infrastructure for biological information.

- LifeWatch: e-Infrastructure for Biodiversity Data and Ecosystem Research.

- CLARIN: establishes an infrastructure of language resources and its technology.

- DARIAH: enhances and support digitally-enabled research across the humanities and arts.

- Other communities are welcome.

The next step

Workgroup leaders

- Stand up and lead one of the 6 available workgroups

Become a Task Force provider

- Join the TF and provide your technology, resources or user experience to the Task force.

Click here
to join now!