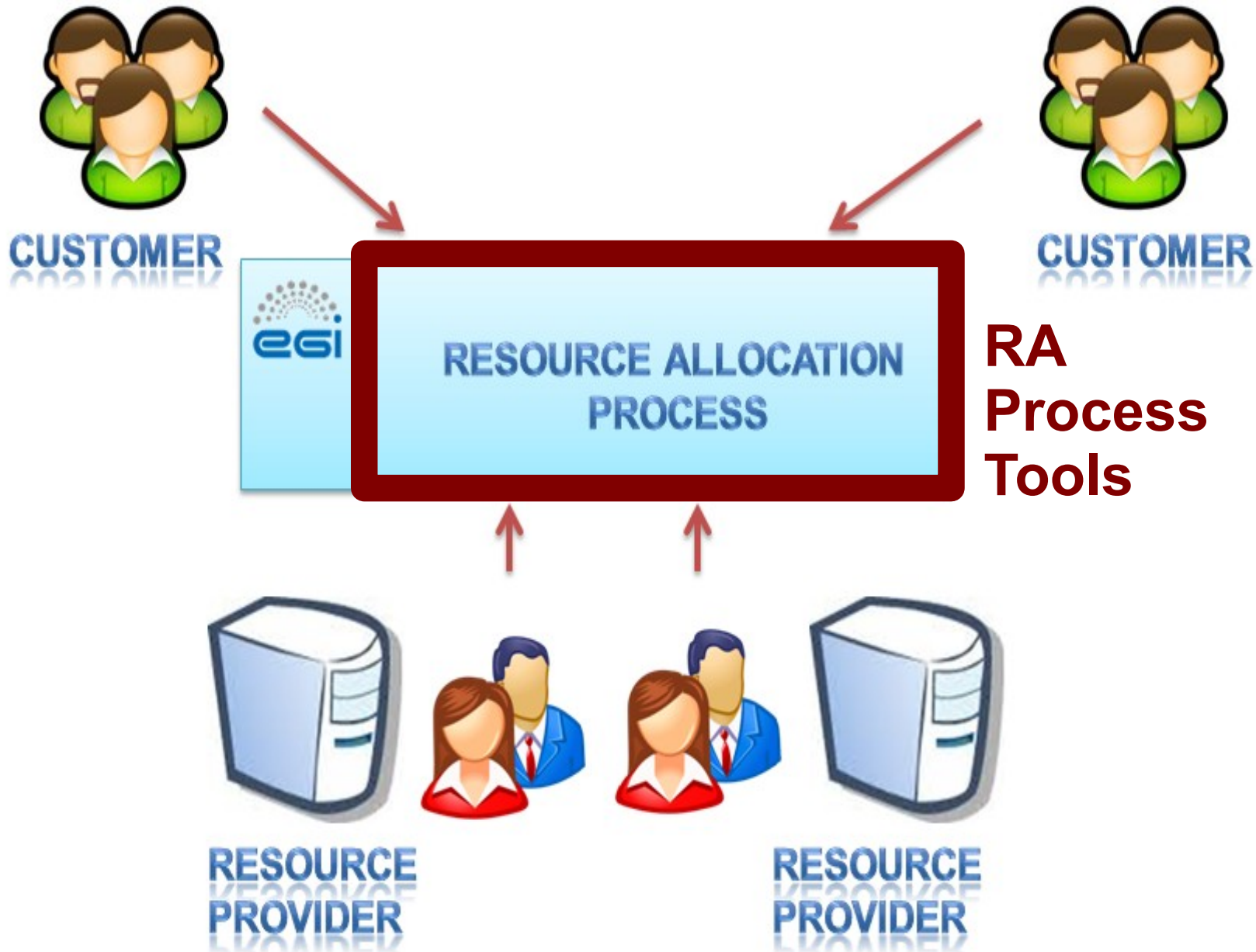


Tools for automating applying for and allocating federated resources STATUS UPDATE

*Tomasz Szepieniec
ACC Cyfronet AGH, Poland*

Goal of the project: RA process tools



Formal summary

- Coordinator:
Tomasz Szepieniec, ACC Cyfronet AGH
- Consortium:
Academic Computer Centre CYFRONET AGH
 - tools development (customization)Centre National de la Recherche Scientifique (CNRS), IN2P3
 - integration with existing operation tools environment
- Funding:
 - Total costs: 107k, EU contribution: 50k
 - Personnel effort: 14.5 PMs

Waiting for formal confirmation of the EGI-Inspire project change – important for matching funding procedure

Motivation & Concepts

- Demonstrating Excellent European Science on EGI's Shared Resources

<https://documents.egi.eu/public/ShowDocument?docid=1415>

- EGI Pay-per-Use

<https://documents.egi.eu/public/ShowDocument?docid=1391>

- EGI Resource Allocation Task Force

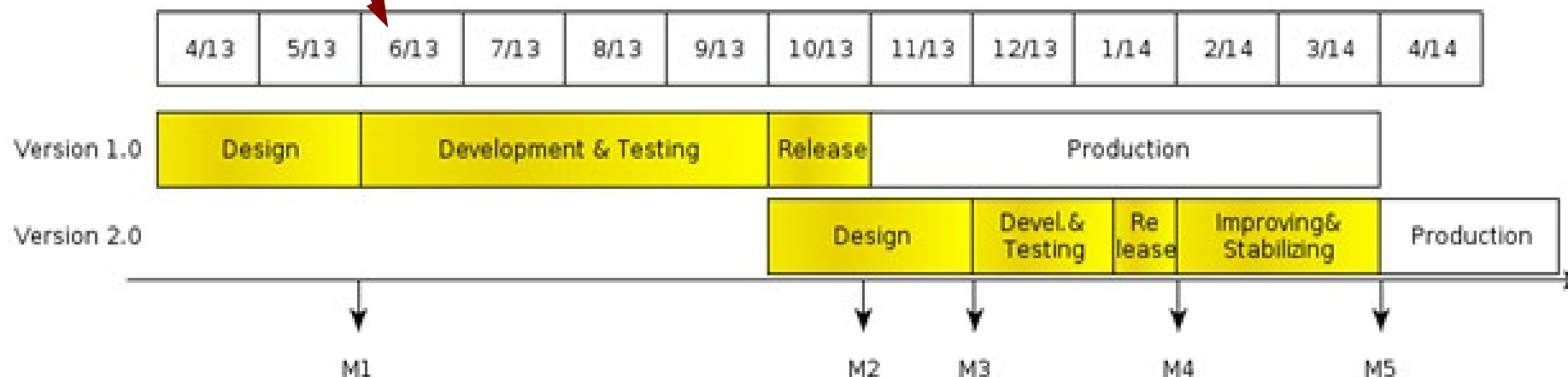
https://wiki.egi.eu/wiki/Resource_Allocation_Task_Force



Service Delivery and
Service Level Management
in Grid Infrastructures



Technical workplan



Milestone number	Date	Description
M1	May 2013	Technical design of the tool and definition of initial first set of high priority functions for the 1st release of the tool. Functions will be discussed with the Resource Allocation Task Force.
M2	Oct 2013	Release of Version 1 of the tool and deployment in the Operation Portal
M3	Nov 2013	Implementation plan of Version 2 of the tool
M4	Jan 2014	Release of Version 2 of the tool (beta-version) and deployment in the Operations Portal for final testing
M5	Mar 2014	Release of Version 2 of the tool (final version) including user-guide, and configuration manual. Enabling this version in production operation infrastructure.

Design: Process Description

Targeting to cover brokering (matchmaking) mechanism for useful scenarios.



A **Pool is** a specific **capacity** of resources available for EGI allocation according to defined **process** under defined **conditions**

Pool example:

- SiteA is offering:
- up to 100 cores for opportunistic usage
 - “free hand” to EGI,
 - from 01.04.2013 to 31.12.2013
 - each VO should not be allocated more than 10% of the pool

For more info see:

<https://indico.egi.eu/indico/sessionDisplay.py?sessionId=14&confId=1222#20130410>

V1: Design summary

- Supported scenario:
 - (priority) static pool – allocated by EGI, According: Demonstrating Excellent European Science on EGI's Shared Resources
 - negotiations (AKA elastic pool) with brokering
- Authentication and authorization
 - EGI SSO for customers: VO Manager, VO Group Managers, new users
 - GOCDDB for providers: NGIs, Sites
- Initial pool repository
 - Basic pool repository, additional information in wiki
 - Semi-automatic matching mechanism
 - Information who is responsible (NGI or Site) will be at pool record
 - System will provide a pool allocation in time
- The tool will be integrated with Operations Portal

Design summary: Technical framework

- Assessment of customization possibilities and costs for design in different scenarios.
- Two options of technology platform:

grid resource
BAZAAR

- Developed by Cyfronet team
- Running in production mode in PL-Grid
- Adaptivity limited in some process options

The logo for Agreemount, featuring a stylized blue triangle icon and the text "Agreemount" in blue.

- Proprietary code, but option to get free licence
- Designed with SLM good practices in mind
- Addaptive, clear technical implementation enabling easy customization

V1: Input required

- From RA TF: SLA metrics (mid August)
- From RA TF: Pool description (mid July)
- From Scientific review responsible (Damir): understand the interface, communication

Ongoing activities

- Collaboration with detailed procedure drafting (deadline: end of June)
- Authentication and authorisation for providers (Sites, NGIs) based on GOCDDB
 - based on certificates
 - caching mechanism
- EGI SSO integration initiated
- Next: Pool repository drafting
- Next: Implementation of procedures in the framework