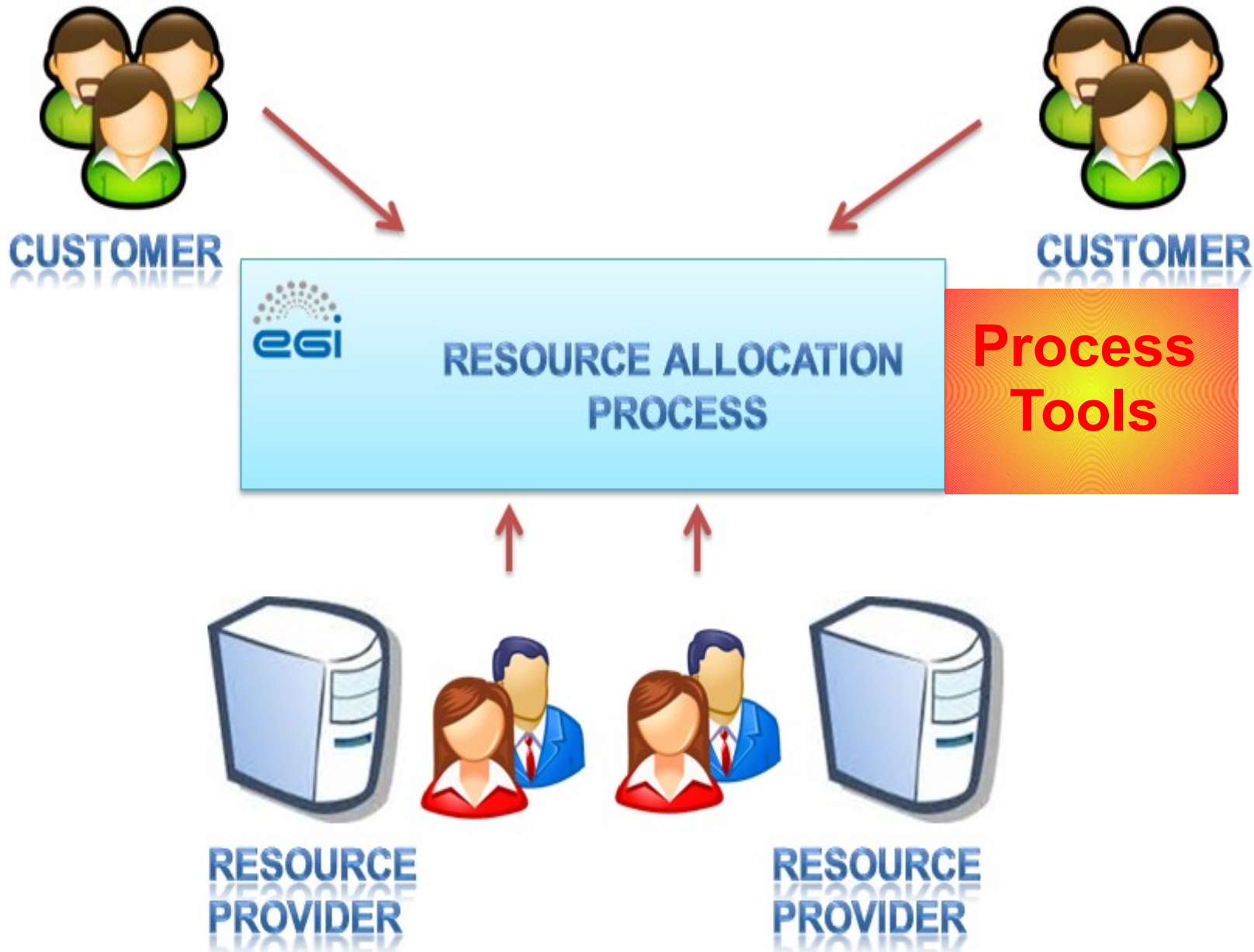


Tools for automating applying for and allocating federated resources

*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

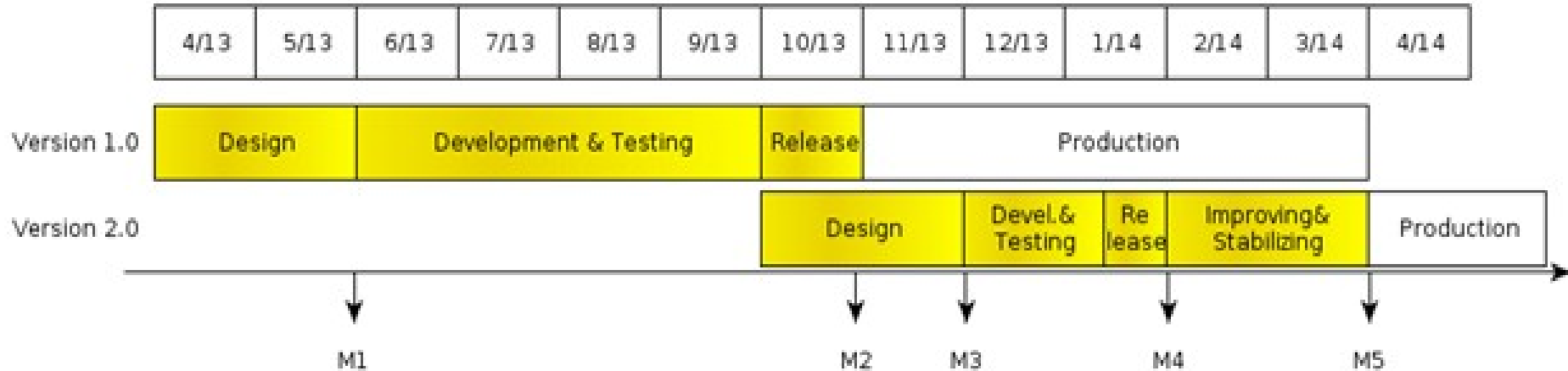
https://wiki.egi.eu/wiki/Resource_Allocation_Task_Force



Service Delivery and
Service Level Management
in Grid Infrastructures



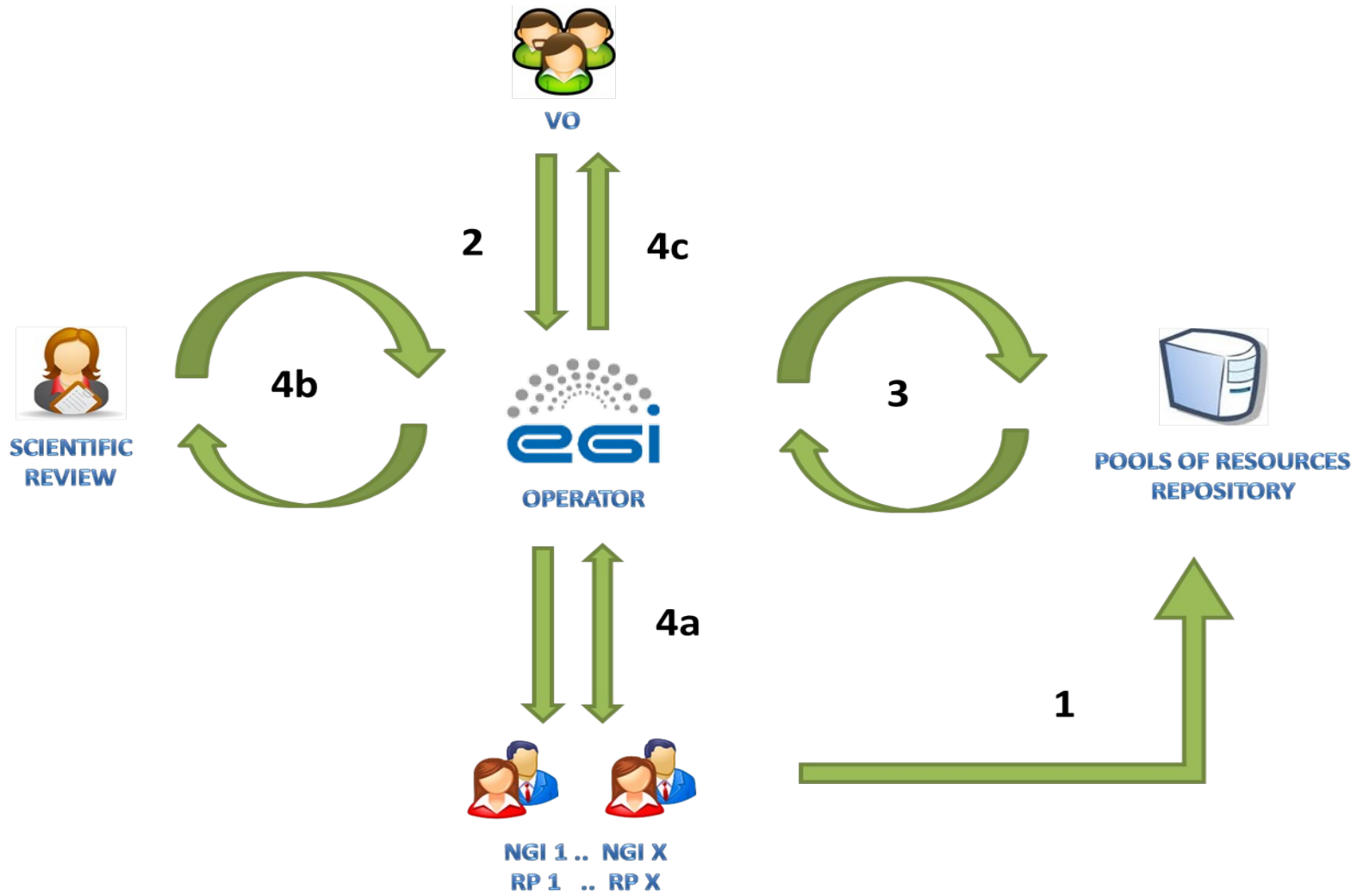
Technical workplan



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.

Current Activities: Process Description

Targeting to cover all the useful scenarios...



*Dedicated session: Wed 11:00, Operational Services:
Coordinated offering of a federated resource pool*

Current Activities: Process Description

Targeting to cover all the useful scenarios...
...and enable it on both EGI and NGI level.



*Dedicated session: Wed 11:00, Operational Services:
Coordinated offering of a federated resource pool*

Current Activities: Customization Planning

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



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



- Developed by commercial company, but option to get free licence
- Designed with SLM good practices in mind
- Adaptive, clear technical implementation enabling easy customization

Activity required for Project Milestone 1 (due May 31)

Grid Resource Bazaar for PL-Grid

grid resource

BAZAAR

- Pick role
- Tester
- NGI Operator
- UG Manager
- Reviewer

Organization filter

Your roles

- Resource Users
 - plgcmarcin
 - plgglescmc
 - plggqcmr
 - plggsicmat
 - plggvocms
 - plggzbitm
 - plgucmazur
- Resource Providers
 - ICM

Your new role is not showed?

Home Bazaar log NGI_PL plggsicmat Refresh tab

Actions & information Pending Actions

Date	Topic	Act.
30/12/2011 14:10	Zaproponowano zmiany do Site SLA SIC-2012	
29/12/2011 15:22	ICM przydzielił zasoby do grantu SIC-2012	

Grant SLAs Column filter

Main st.: Agreed Proposal Draft Cancelled

Activity st.: Active Blocked Pending Completed

Get personal grants 150 SLA

ID	Name	Start Date	End Date	Version	Cov. State	State
703	SIC-2012	01/01/2012	30/12/2012	3706/2012-01-02	COVERED	AGREED

Site SLAs Column filter

Main st.: Agreed Proposal Preagreed Draft Cancelled

Activity st.: Active Blocked Pending Completed

150 SLA

ID	Name	Res. provider	Start Date	End Date	Version	State
826	SIC-2012	ICM	01/01/2012	30/12/2012	3702/2012-01-02	AGREED
831	SIC-2012	TASK	01/02/2012	30/12/2012	3704/2012-01-02	AGREED

Site SLA: '826'

Menu Offer_Changes

Basic SITE SLA information

SLA id : 826 (ver.: 3702/2012-01-02)

SLA name : SIC-2012

Resource provider : ICM

Resource user : plggsicmat

Superior SLA : SIC-2012 (id: 703)

States:

Main : AGREED

Activity : ACTIVE

Resources

Period no. 01-01-2012 - 30-12-2012

Computational Resources

Max total walltime 800,000 h

Storage Resources

Total storage space 1,200 GB

Other specification :

Moge zaproponowac powyzsze limity na caly grant. Liczba uczestnikow grantu nie jest mi znana, ponadto moze zmieniac sie w trakcie.

Action comment : SLA agreed due to superior Grant SLA accept

Contact person : plggsicmat (plggsicmat as RU)

Agreement Demo Portal Screenshot

GridSystem

[Home](#)
[Link](#)
[Link](#)
[Link](#)
Logged as: John Deree

[My account](#)

[Logout](#)

Project DMPW301

INBOX

[plganna87](#)

[plgpszep2013a](#)

[plgmama12](#)

OUTBOX

[plgchemia2](#)

[plgyui2000](#)

[plgmooha2012b](#)

Slaname 1 with user 1

SLA Number: **13569**

Team: **XYZ392**

STATES

main: PROPOSAL

activity: NOT APPLICABLE

A change had been offered to the SLA, which you possibly have not seen yet. ✕

Resources

PERIOD

Start

End

COMPUTATIONAL RESOURCES

Max Walltime	20000	30000	h	✎
Max Total Walltime		5000	h	✎
Lorem ipsum		1500	h	✎ Edit Delete

Add resources

Computational Resources

- + Max job walltime
- + Max job parallelism
- Max total walltime

Storage Resources

- + Max data rate
- + Max backup interval
- + Total storage space

Actions

Send proposal

Edit offer

Negotiate proposal

Accept proposal

Reject

Delete

Compare

Compare with previous

Compare with XYZ

Recent activities

- You send [proposal 1](#)
- User 3 rejected [proposal 7](#)

Cancel

Sent

Save draft

The Last Transparency

- Ongoing Activity: Version 1 functionality list
 - Depending on RATF works and decisions
- Waiting for formal confirmation of the EGI-Inspire project change
 - Important for matching funding procedure

Wed 11:00, Operational Services: Coordinated offering of a federated resource pool