

VAPOR

Vo Administration and operations PORTal

EGI Community Forum 2013

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- Running scientific experiments requires costly IT support
 - Achievable for large organized communities
 - Out of reach of smaller/younger communities
- How to sustain existing communities
How to recruit new ones?
 - Find out ways to administrate/operate a VO with reduced human cost
- Virtual Research Community model

- Small to medium-size user VOs
- No or few dedicated support
 - Volunteering contribution
- Fragmented user groups
 - No control on submission tools, policies...
 - Difficult to plan needs
- Scattered scientific activities
- Opportunistic usage of resources

- Life Science Grid Community:
 - 5 VOs, ~500 users
 - biomed, lsgrid, medigrid, pneumogrid, vlemed
- biomed VO
 - Set up of technical support team in 2010
 - Volunteering-based model
 - Experience: time consuming activity
- Need to **mutualise the human effort with other VOs** within the VRC or beyond



Large variety of existing tools

Nagios[®]

myEGI



VO Operations
Dashboard

dashboard

VOMS admin



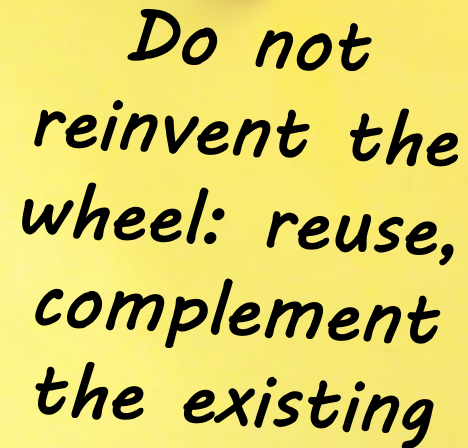
EGI ACCOUNTING PORTAL



GStat 2.0

Large variety of existing tools

- Some tools are adapted to certain types of community
- Some usual administration/operation tasks are not addressed

A yellow sticky note is pinned to the white background with a red pushpin at the top center. The note contains handwritten text in black ink.

*Do not
reinvent the
wheel: reuse,
complement
the existing*

- Direct technical contributors:
 - I3S, CNRS (France)
 - CREATIS, CNRS (France)
 - GRyCAP, Universitat Politècnica de València (Spain)
 - Institut Pluridisciplinaire Hubert Curien (France)
 - EGI Operations Portal team

- Use cases, contribution to the design and test
 - France Grille VO (NGI France)
 - Academic Medical Centre, VLEMED VO, University of Amsterdam (Netherlands)
 - COMPCHEM VO, University of Perugia (Italy)
 - WeNMR, 7th FP, VRC

- Community users management
 - Users database
 - Interface with VOMS, LFC, EGI Apps Database
 - Identify users "behind" robot certificates
 - Track scientific production => *acknowledgement*
- Operations for technical support teams
 - Resources status indicators & statistical reports
 - Data Management: files migration, decommissioning, clean-up

- Operations for technical support teams (*cont'd*)
 - Filter important info from mailing lists (e.g. downtimes that impact VO critical services)
 - Statistics on GGUS tickets
- Accounting:
 - Community resource usage, per VO resource usage, per VO sub-group resource usage
 - Projection of future needs for storage and computing resources

- 12 months duration
- Start April 2013
 - survey of tools, features specifications
 - First use case and beta tester: biomed
- Budget
 - Total: 125 440€
 - Requested: 52 200€
 - Engineer position recruited for 12 month
- EGI contact: Diego Scardaci

- Mutualise admin/operation effort:
 - Help existing communities sustain their model, reach better QoS
 - Facilitate the outreach of new communities
- Apprehend the diversity of community users, foster resource usage acknowledgement
- Community-wide accounting, plan future needs for resources



| | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M8 | M9 | M10 | M11 | M12 |
|---|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| Task 1: Features specification | | | | | | | | | | | | |
| Review of existing tools and portals | █ | █ | | | | | | | | | | |
| Definition and prioritization of features | | | D1 | | | | | | | | | |
| Task 2: Software development | | | | | | | | | | | | |
| Community users management | | | █ | █ | █ | D2 | | | | | | |
| Operations management | | | | | | | █ | D3 | | | | |
| Accounting | | | | | | | | | █ | D4 | | |
| Task 3: Platform deployment & exploitation | | | | | | | | | | | | |
| Deployment on production platform | | | | | | █ | | █ | | █ | █ | █ |
| Update of VO operation procedures | | | | | | | | | | | | |
| Training of support and admin members | | | | | | | █ | | █ | | █ | █ |

| | | num | unitary cost | 60% overhead | total cost |
|---|--------|-----|--------------|--------------|---------------------|
| Human resources | | | | | |
| Software engineer recruited, I3S | (100%) | 12 | 3 500,00 € | 2 100,00 € | 67 200,00 € |
| Franck MICHEL, research engineer, I3S | (33%) | 4 | 5 000,00 € | 3 000,00 € | 32 000,00 € |
| Sorina Camarasu-Pop, researcher, CREATIS | (8.3%) | 1 | 4 200,00 € | 2 520,00 € | 6 720,00 € |
| Jérôme Pansanel, operations manager, IPHC | (8.3%) | 1 | 5 000,00 € | 3 000,00 € | 8 000,00 € |
| Ignácio Blanquer, professor and Enrique Bayonne, engineer, GRyCAP | (8.3%) | 1 | 4 200,00 € | 2 520,00 € | 6 720,00 € |
| <i>Sub-total</i> | | | | 13 140,00 € | 120 640,00 € |
| Hardware | | | | | |
| Laptop | | 1 | 1 500,00 € | 900,00 € | 2 400,00 € |
| Total budget | | | | | 125 440,00 € |
| Requested budget: 75% of SA activities | | | | | 52 200,00 € |