

VAPOR

Vo Administration and operations PORTal

EGI Community Forum 2013

Franck Michel, CNRS



- 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

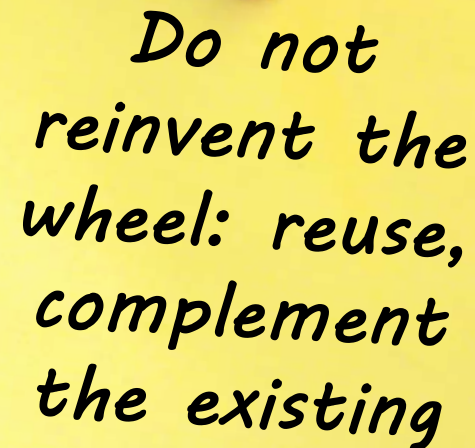


EGI ACCOUNTING PORTAL



GStat 2.0

- 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

- 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

