

# First thoughts on job management

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# JRA1/SA1

- I personally don't like too much this separation between support/maintenance (SA1) and new developments (JRA1)
  - Given a certain product, the relevant people are the same
  - JRA1 workplan highly affected by SA1 activities
- Product teams are supposed to be the core of the activities
  - One should care about JRA1 and SA1 only when filling the timesheets
  - As also stated in the EMI workshop
- We will see if this organization works

# Product teams

- Which are the relevant product teams ?
- ARC ?
- gLite
  - We used to have:
    1. Workload Management System (WMS)
    2. CREAM CE
    3. Batch system support
    4. MPI
  - Probably 2 and 3 can/must be merged
- Unicore ?

# Workplan

- In the proposal a few specific items are presented
- But basically it is (rightly) written that we have to meet the requirements coming from our customers
- We are not starting from scratch
  - Our products are already in use
  - We all should already have some feedbacks and a list of new requirements/functionality to be implemented
  - → Each product team should be able to prepare a list of items already in their agenda



# Workplan (cont.ed)

- The initial workplan will change
  - New items could (actually for sure will) be added on user requests
- Workplan highly impacted by support and maintenance issues
  - Which have higher priority wrt new developments

# Workload Managers and Compute Elements

- Standard interfaces (see next)
- Some new functionality/improvements
  - Bulk operations
  - Interactive access to the running jobs
  - Load balancing mechanisms
  - ...
  - Each product team should be able to provide some specific plan here
- Explore the utilization of virtualized resources
  - Also in the “Infrastructure area”
  - Who does what ?
  - INFN WNodes, ...

# Common execution interface

- Activities are already proceeding in two front lines:
  - AGU
    - Likely to find an agreement quite soon
  - PGI
    - Wider community, but likely taking much much more before finalizing it
- Approach
  - First implementation based on AGU
  - Refer to PGI specification later, when ready
  - Consider CEs first. Higher level services (e.g. WMS) later



# Common clients and APIs

- Consolidation of many different clients and APIs in well defined SDKs and user interfaces
- Adoption whenever possible of high level application oriented APIs like SAGA
- Just for the common interface ?
- Portlets (in collaboration with other projects)
  - Which ones ?



# MPI and parallel job support

- Make simpler, more transparent, etc. the support of MPI and parallel jobs
- For gLite (where MPI-START is used) initial work based on the recommendations of the MPI WG
- What about ARC and Unicore ?
- Some common works ?

# Miscellaneous

- Other common developments between ARC, gLite and Nordugrid besides the common interface already identified ?
- How are we affected by the security plans ?