

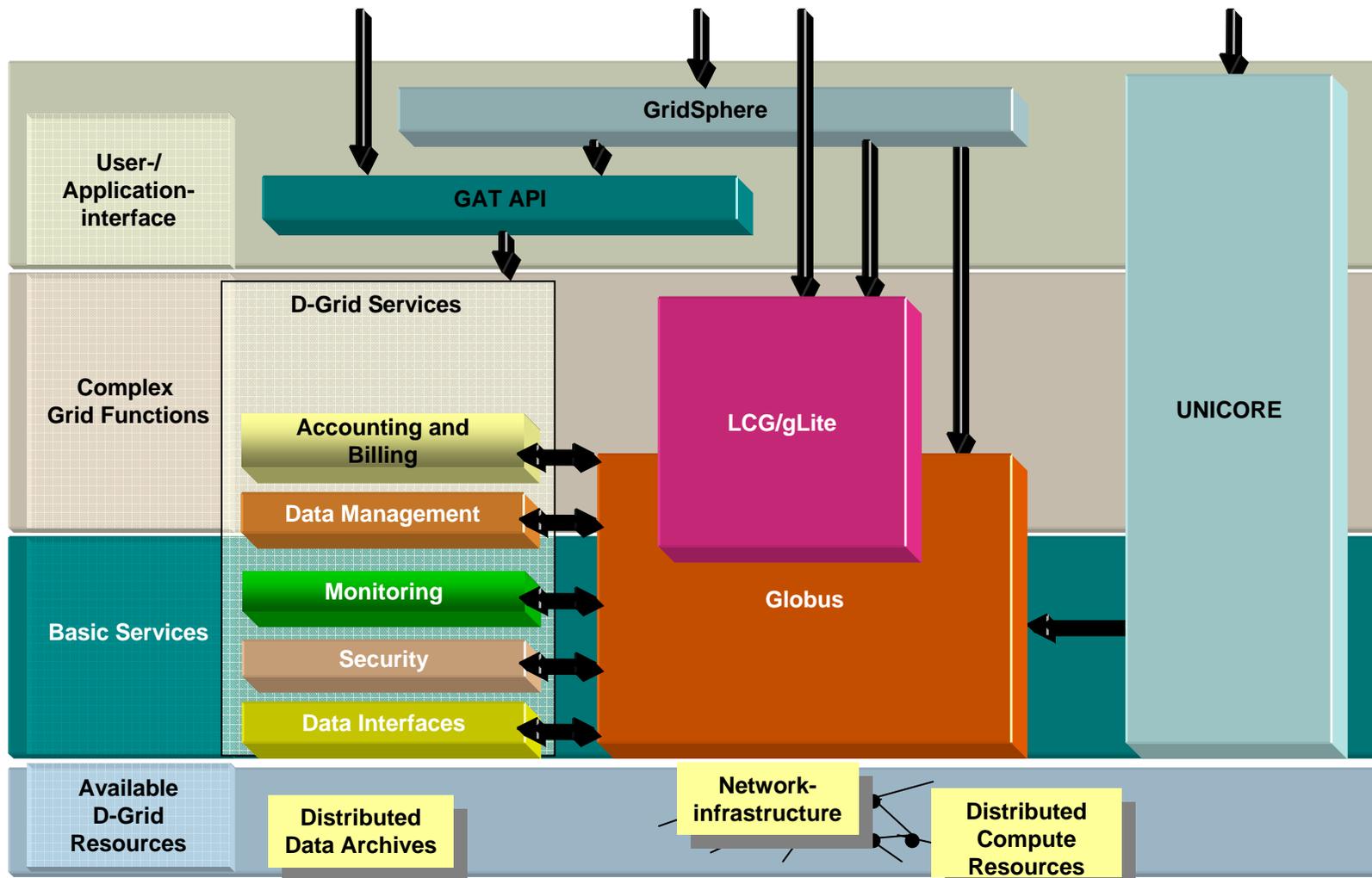
DGI Activities Now and in the Future

Uwe Schwiegelshohn

University Dortmund

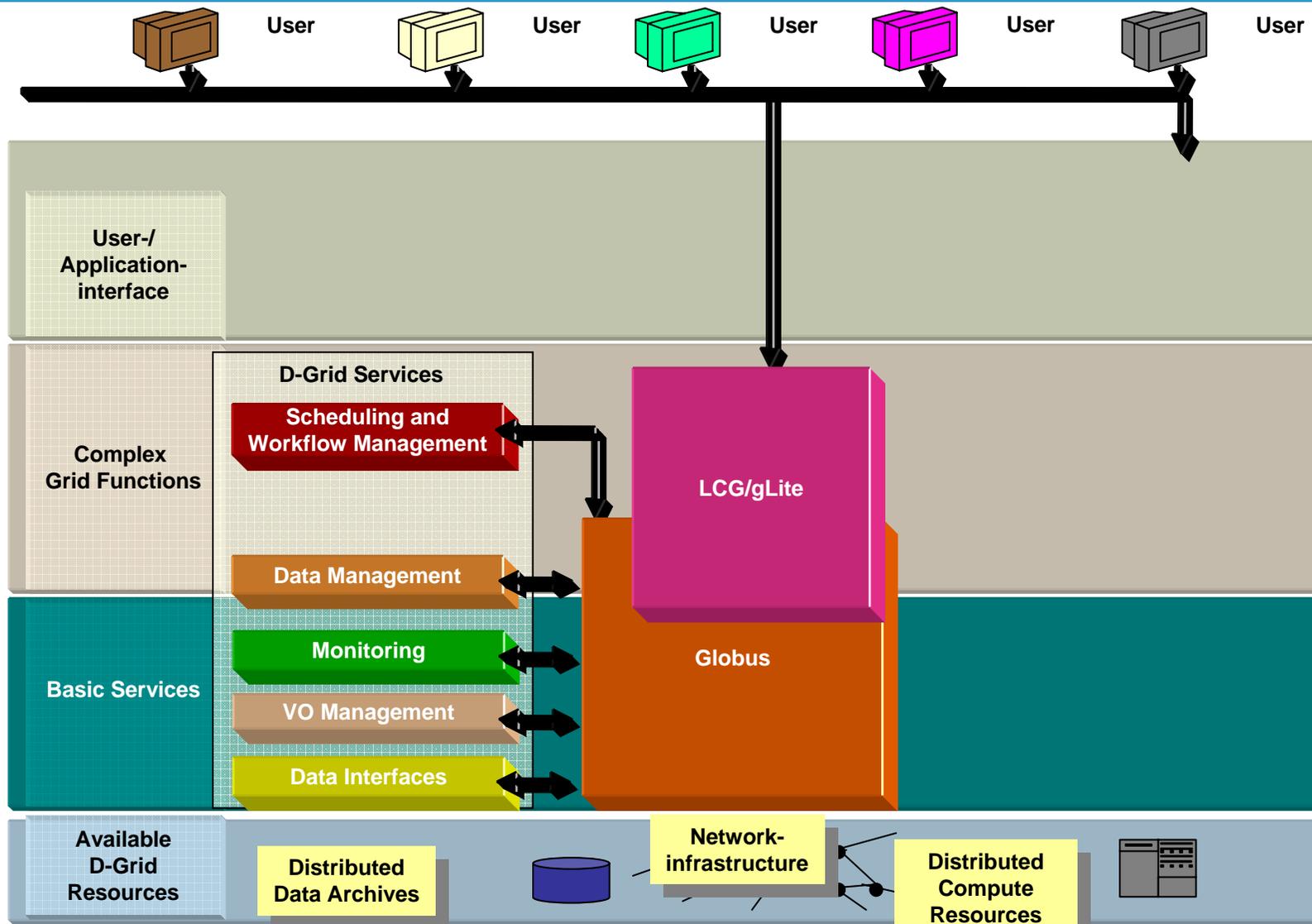
Middleware Coordination in the D-Grid
Integrationproject

DGI Structure





HEP-Community Grid



Tasks of DGI Projects

- Community Support
 - Training
 - Information on new versions
 - General support
 - Cooperation on special requests
- Services for the communities
 - Installation packages
 - Documentation
- Extension of existing software systems
 - New software components to fill (small) gaps
 - Adaptation of new middleware versions

- Installation of dCache gLite-SE server and tape simulator as a test environment
- Support of community tutorials
- Adaptation of gLite to an SGE batch system with AFS at RZG
- Adaptation and installation of P-Grade and GridSphere portals for monitoring and job submission
- Development of GridPortlets for gLite
- SRM/dCache:
 - Improvement of installation process
 - Test of new version together with VOMS
 - Installation at FZ Jülich: productive use by VO ILDG, support of VO DGTEST, visible in LCG-monitoring
- Experiments with VO and VOMRS

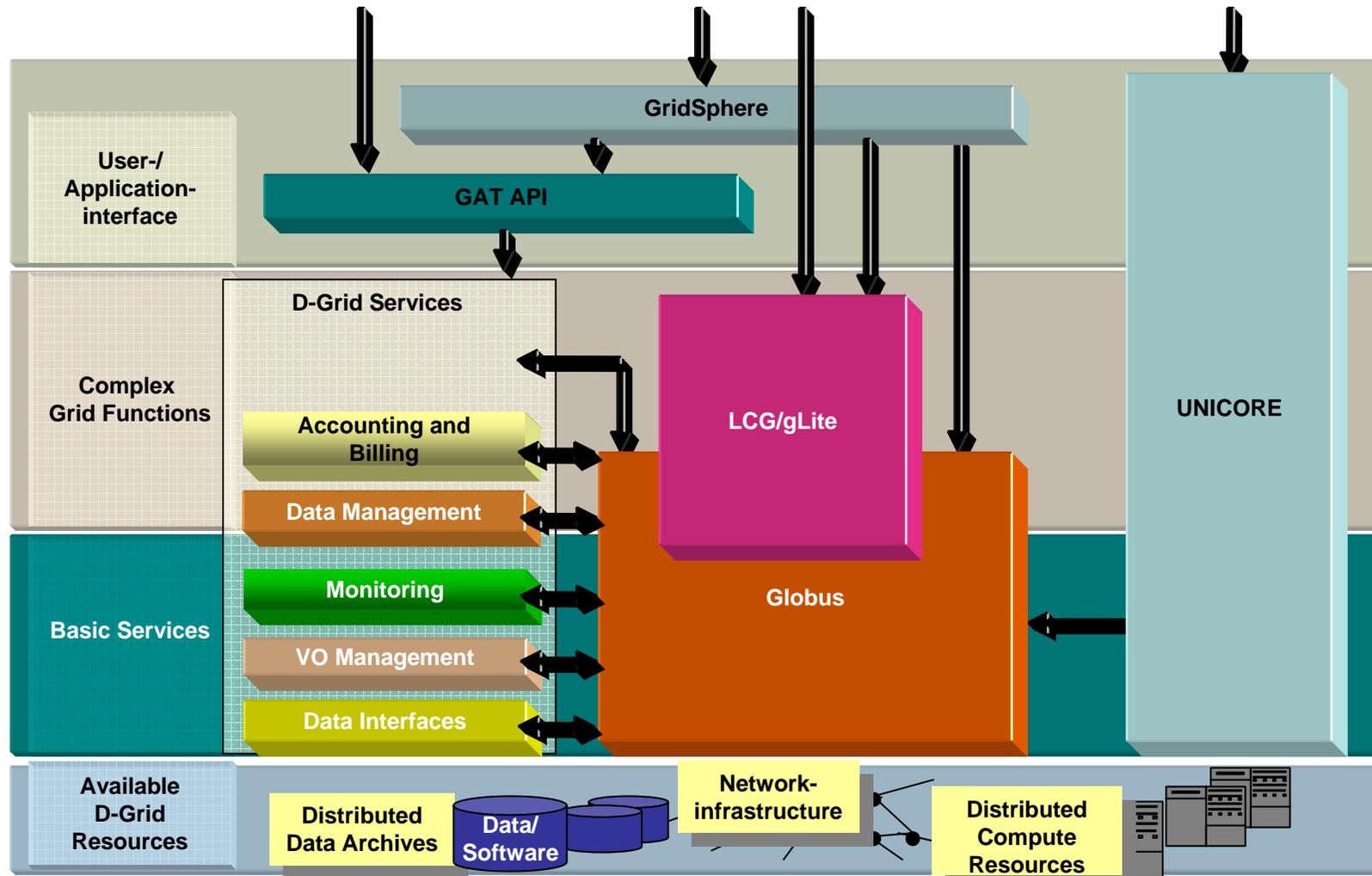
Community Feedback

- Training workshops and tutorials
 - Usefulness of offered events?
 - Topics of additional workshops?
- Response time and quality of requests for general support?
- Ideas for new special request projects?
- Quality and availability of installation packages and documentation?
- Gap filling of existing software systems
 - Relevance of identified and addressed gaps?
 - Any other important gaps?
- New strategy: DGI project members present their approaches at community meetings.

- Software development of HEP-CG
 - Scalable storage element
 - Workload management
 - Metadata catalogue
 - Job execution monitoring
 - Web-portal for job monitoring
 - Any cooperation with GridSphere?
 - Interactive job steering
 - Distributed data analysis
- Integration of those components into the D-Grid Structure?
 - Which components and when?
 - Which additional support is required for integration?
 - Who will provide long term support?



New Grid Resources

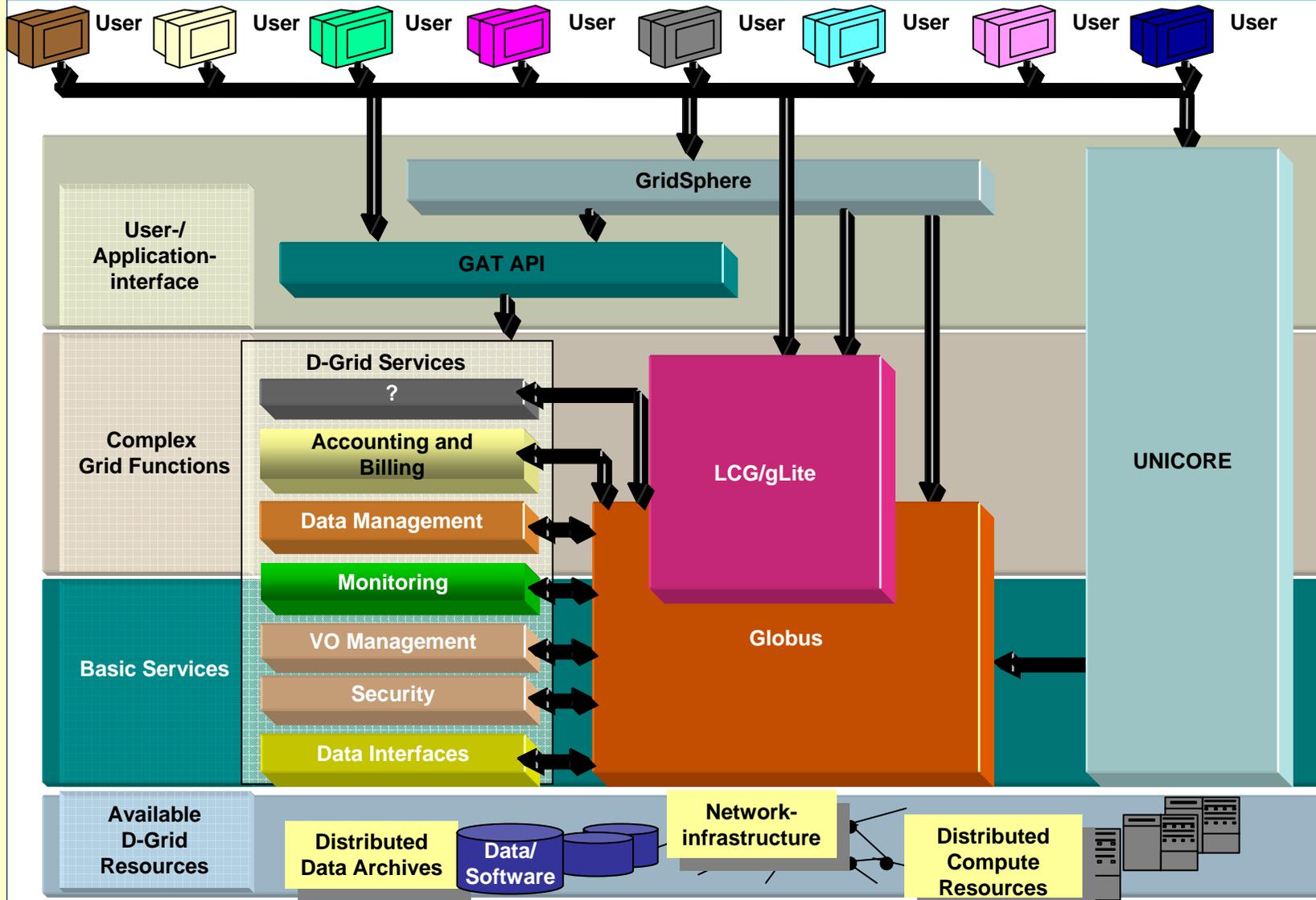


BMBF Infrastructure Funds

- More than 1000 CPUs with more than 2000 Cores plus a significant amount of storage resources
- Conditions
 - Support of all 3 middlewares (gLite, GT4, UNICORE)
 - Storage resources can be accessed by either SRM/dCache, SRB or OGSA/DAI.
 - All (compute) resources are accessible by the whole D-Grid community with highest priority.
- DGI defines and provides a reference installation
 - Installation packages
 - Documentation
 - Configuration (Howto)
- Resource integration across communities
 - Advantageous or detrimental?

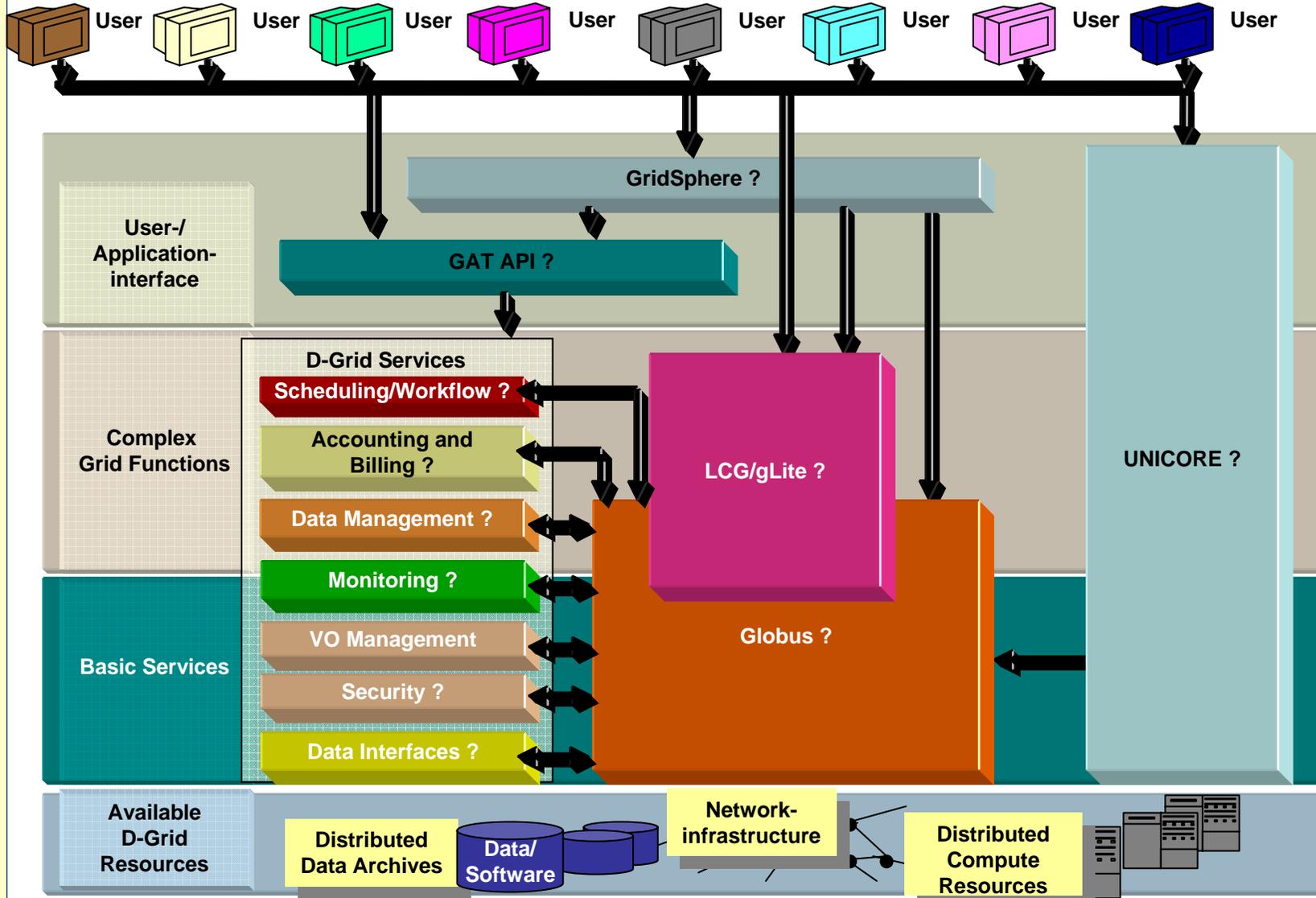


D-Grid 2 Call



New D-Grid Projects

- Gap projects of D-Grid
 - Integration of VOMS and Shibboleth (IVOM)
 - A step towards a common infrastructure
 - Additional gap projects have passed the first round.
- Horizontal service Grids
 - Services that are beneficial to several communities
- New community Grids
 - Involvement of industry is required
 - Relation to science oriented Grids?
- How are existing communities involved?



Continuation of the DGI Project

- Not all existing projects will continue.
 - Evaluation is based on community feedback.
 - Which existing projects are important for you?
 - Is any change of focus required?
- Some new projects will be included.
 - Example: Higher level Grid functions
 - Selection is based on community requests?
 - Which new services are required?
 - Expertise within the community?
 - Can sustainability be guaranteed?

Conclusion

- Cooperation with the DGI can be improved.
 - Partial success for neighboring projects.
 - General feedback is missing!
 - New methods are required!
- Cooperation with other communities
 - More support for own software tools
 - No waste on duplicate software development efforts
- D-Grid infrastructure
 - Additional resources
 - Better methods to share resources
 - Incentive for other groups to add resources
- DGI 2
 - Opportunity to shape the project