NGI-DE experience and future plans

for the operation of heterogeneous middleware stacks

Steinbuch Centre for Computing / KIT
Angela Poschlad / Foued Jrad

NGI-DE Status

- Finishing the NGI-DE creation process and Starting the NGI operation (August 2010)
- Migrating the EGEE German sites in GOCDB from ROC GermanySwitzerland to NGI-DE
- Starting NGI-DE Helpdesk operation (https://helpdesk.ngi-de.eu)
- NGI-DE is currently Monitoring 19 German Sites and 3 Swiss Sites from ROC GermanySwitzerland

D-Grid German Initiative

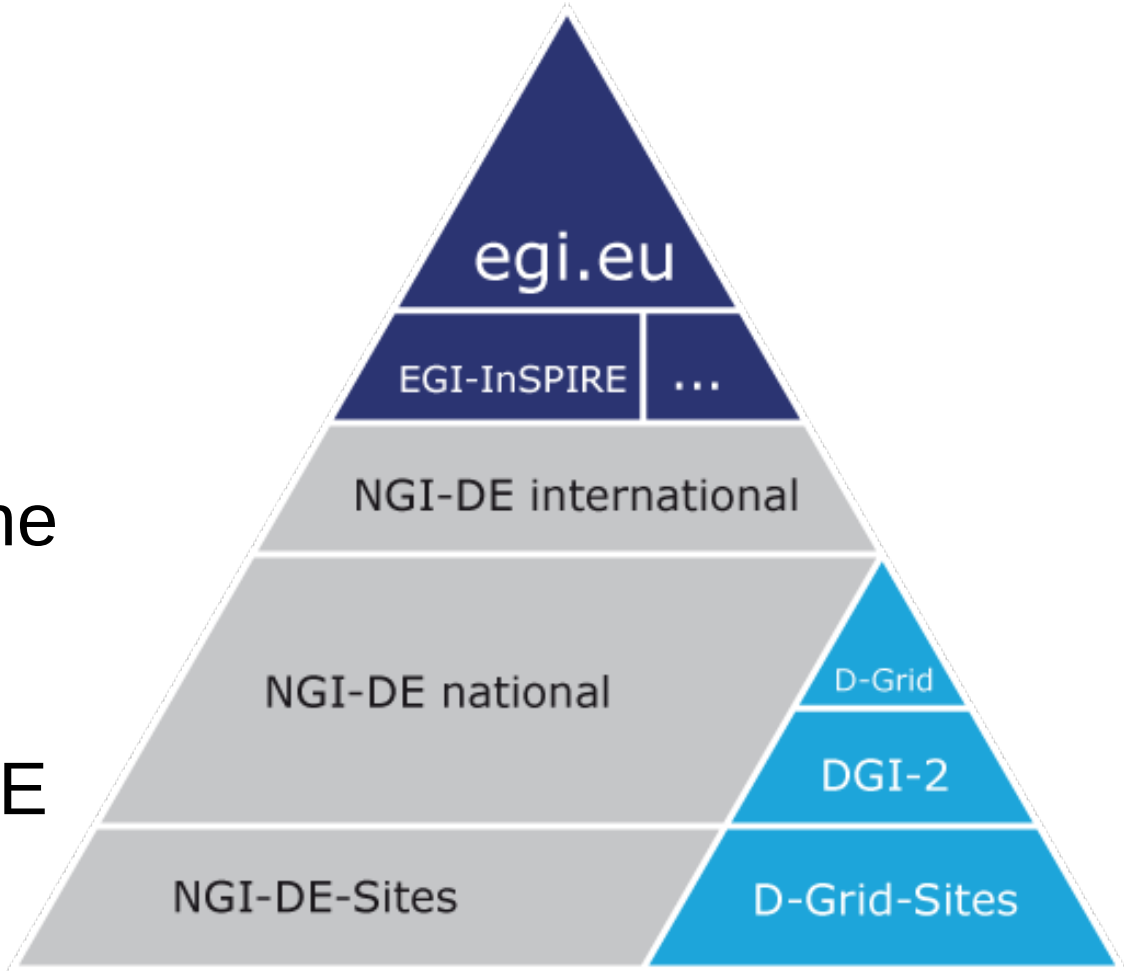
- D-Grid builds since 2005 a sustainable grid infrastructure for e-Science in Germany
- More than 30 community projects (astrogrid, medigrid, HEP, etc ..) and one infrastructure project (DGI-2 until 2010)
- More than 25 German resource providers
- Integration of multiple Middlewares (UNICORE, Globus, gLite) on a single computing resource
- Nagios site monitoring for 3 Middleware Stacks through VO dgops (https://sitemon.d-grid.de/)

D-Grid Integration

- NGI-DE driven full integration of core and site services by end of D-Grid 2012

- Support Helpdesk Integration already done

- Funding through Project NGI-D³ (NGI-DE Services for D-Grid) requested



Integration Benefits

For VRC Users:

- Single point of contact
- Unified access and support
- Smooth transition from D-Grid to NGI-DE

For NGI-DE Sites:

- Reduce operation costs and complexity
- International and global support through ROD / COD Teams
- Gain new user communities

Future Plans

- Integration of D-Grid Sites and support Globus and UNICORE Middleware Stack
- Continue to regionalize operational tools (regional GOCDB and Dashboard) and configure them for the specific requirements
- Integrate Globus and UNICORE Nagios checks in collaboration with the EGI Nagios Team (JRA1)
- Sites directly involved in the Integration: KIT, FZJ and LRZ are D-Grid and NGI-DE Partner

Current issues

- Most D-Grid Sites provide Globus (85%) or UNICORE (46%) Services but few gLite Services (35%)
- No Support for UNICORE and Globus in GOCDB
- EGI Monitoring covers only gLite Services
- D-Grid uses GRRS as Resources Information Database and not GOCDB
- Site Names are not identical in D-Grid and NGI-DE
- D-Grid accounting is based on DGAS

Integration procedure

- Operation tools deployment, monitoring and accounting have the highest priority for the integration
- Use GRRS interfaces to synchronize D-Grid site services information with GOCDB
- Reuse the implemented Nagios sensors in D-Grid to monitor Globus and UNICORE Services
- Use unique site names in GOCDB and in GRRS
- Continual support for joined D-Grid Sites independently from funding

Questions

Questions are welcome!