

# Transition from EGEE to EGI in Germany

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# German engagement in (HEP) Grid activities

## ■ WLCG

- **KIT** (former FZK)
  - Hosts the German Tier-1 GridKa
  - Has representatives in WLCG OB, MB, GDB, CB, C-RRB, C-RSG
- 7 German average sized (partially federated) Tier-2 sites
  - DESY, GSI, LMU and MPIfP Munich, RWTH Aachen, U Freiburg, U Göttingen, U Wuppertal

## ■ EGEE

- **KIT** is
  - lead beneficiary of German JRU in EGEE-III
  - head of German-Swiss distributed ROC (CSCS, DESY, FhG, GSI)
  - technology provider for GGUS
- Up to 7 German partners in EGEE I-III
  - DESY, DFN, DKRZ, FhG (SCAI + ITWM), GSI, KIT

# German engagement in (HEP) Grid activities

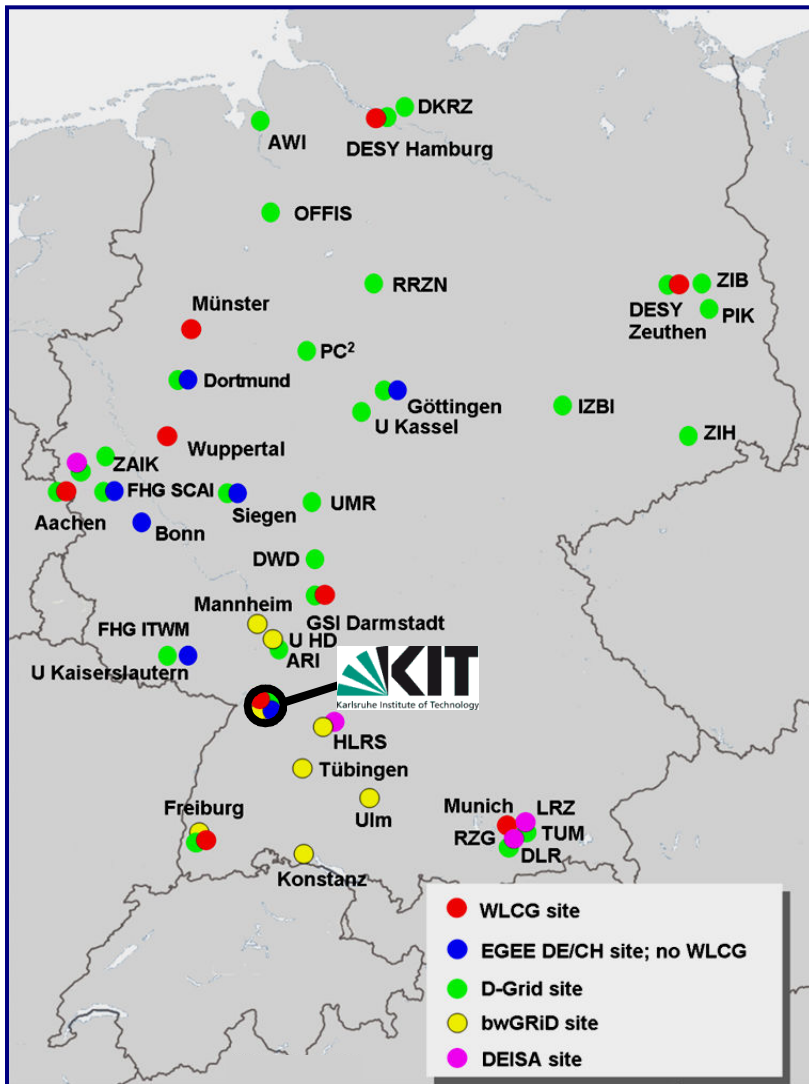
## ■ D-Grid

- Several calls by BMBF (German Federal Ministry of Research)
- 2 integration projects, 22 community projects (16 with industrial partners), 5 service projects, 5 specialized (gap) projects since 2004
- 2 large investments by BMBF into compute / storage infrastructure
- **KIT** is lead partner of D-Grid Integration Projects (DGI) 1 & 2

## ■ Helmholtz Alliance “Physics at the Terascale”

- Research network comprising 18 German Universities, 2 Helmholtz Centers (DESY & **KIT** ) and 1 Max Planck Institute
- Grid Computing for HEP as one sub topic

# German Grid resources, operations and support



- 43 sites
- 38.000 logical CPUs
- 12.000 TB disk
- 9.000 TB tape  
(without DEISA sites)

# German Gauß Allianz e.V. and NGI-DE

- Gauß Allianz e.V.
  - Registered association of large German scientific computing centers
  - 10 foundation members (incl. **KIT**) + 6 associated (incl. DESY and DFN)
  - Goals
    - Foster science and research with high performance computing resources
    - Coordinate and bundle competencies and diverse compute architectures as well as access structures ⇨ includes **Grid**
  - **Gauß Allianz e.V. is the supporting organization of NGI-DE**

# Organization of NGI-DE

## ■ NGI-DE

- Gauß Allianz e.V. delegates the subtask NGI-DE to a consortium of the four members KIT, LRZ (Munich), FZJ (Jülich) and DESY

## ■ LRZ

- Represents NGI-DE in the EGI council
  - In person Dieter Kranzlmüller, deputy Klaus Ullmann from DFN
- Represents NGI-DE during EGI proposal application on the European and national scale (i.e. to relevant German user communities)

## ■ KIT

- Leads the NGI-DE consortium
- *Organizes* the NGI-DE operations tasks within EGI
  - Operations functions (run the Grid Infrastructure)
  - User Community Support Functions
- Handles EGI/NGI-DE administration
  - E.g. subcontracting through JRU

# NGI-DE and EGI

- German JRU for EGI defined
  - A mix of the hitherto WLCG, EGEE, D-Grid and HGF Alliance expert institutions
    - KIT, LRZ, FZJ and DESY (the NGI-DE consortium)
    - + DFN, FhG (SCAI + ITWM), RRZN (Hannover) and the D-Grid GmbH
- Consortium agreement signed, bid for global / international EGI tasks submitted, contributing to proposal ...

## Summary

KIT and hence the German Tier-1 GridKa well embedded into the new structures.