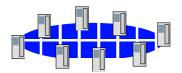
# **EUR#GRID**

# **European Testbed for GRID Applications**



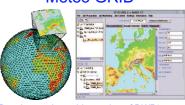
- ◆ Operate a GRID for biomolecular simulations
- Develop interfaces to existing biological and chemical codes

#### **HPC Research GRID**



- Demonstrate a European HPC GRID testbed
- ◆ Develop new GRID applications
- Enable sharing of competence and know-how
- ◆ Agree on security standards, certification, access policies, ...

#### Meteo GRID



- Develop a relocatable version of DWD's weather prediction model
- Goal: 'Weather prediction-on-demand' as an ASP solution

# **Technology Development**

- Build on the functionality of UNICORE
- Extend UNICORE to provide the middleware necessary for the Domain specific GRIDs
- · Efficient data transfer
- · Resource brokering
- · ASP services
- · Application coupling
- · Interactive access

#### pere#ab

sgi SGI O2000(128 PE) sgi SGI Onyx2 (4 PE)

# **CAE GRID**





- Coupled simulations of aircrafts
- HPC portals for EADS engineers and for engineers at Daimler-Chrysler and partners
- Develop GRID technology for computing cost estimates and billing

#### Manchester Computing

CRAY T3E - 1200 (128 PE)

FUJITSU VPP 300 (8 PE)

Sgi SGI 03000 (512 PE)

Sgi SGI 02000 (128 PE)

CRAY T3E - 1200 (512 PE)
CRAY T3E - 600 (512 PE)

int<sub>el</sub>. Linux Intel Cluster (36 PE)



IBM. IBM SP3 (8 PE)

NEC NEC SX5 (40 PE)

IBM. IBM Power4 (256 PE)

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COMPAQ. Compaq Alpha Linux (24 PE)

<u>D</u>T

CRAY T3E - 900 (32 PE)

NEC NEC SX4B/2A

COMPAQ. Compaq Alpha Linux (4 PE)



NEC NEC SX5 (10 PE)

## **HPC Centers**



Forschungszentrum Jülich (D)



Parallab - University of Bergen (N) CNRS - IDRIS (F)



Warsaw University (PL)



Victoria University of Manchester (UK)

ETH Zürich - SCSC Manno (CH)

### **Users**



Assistant Partner:

Deutscher Wetterdienst(D)

GIE EADS CCR (F)



····• T··Systems· T-Systems (D)

## Integration



Pallas GmbH (D) Project Coordinator

Assistant Partner:



Fujitsu Laboratories of Europe (UK)



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URL: http://www.eurogrid.org



# **European Testbed for GRID Applications**

# **Infrastructure and Software Development**

