

#### PRACE Service to Science

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## **PRACE History**

Precursor The DEISA Project (Victor Alessandrini, F)

First Ideas 2003 – HPC-Euro Interest Group (Hugh Pilcher Clayton, UK)

Closing in 2006 – HPC in Europe Task Force (HET) (Kimmo Koski, FI)

► ESFRI 2006 – HPC on the Roadmap

► PRACE MoU 2007 (Alain Lichnewsky, F, Achim Bachem, D)

PRACE Signing 2010 (Achim Bachem, D)

PRACE II
2017 (Anwar Osseyran, NL)

► PRACE III Work in progress

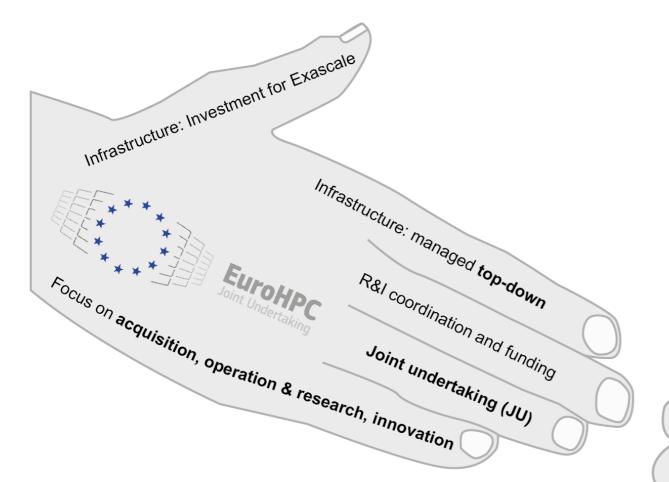








#### PRACE in the EuroHPC era









# **PRACE Services today**

- Open access to leadership HPC systems for EU researchers
- Peer Review at European level science led (SSC)
- Access to architectural variety meeting most algorithmic needs
- ▶ User support by HLSTs, Preparatory Access, support for CoEs etc.
- Operation of a large set of HPC services, unified over all providing centers
- ► Training by PRACE Training Centers, Seasonal Schools, etc
- Enabling of Industry on European HPC systems (... SHAPE)
- Market Watch to create competence for HPC procurements





# Who is Servicing













universität innsbruck

















grnet















Science & Technology



















INSTITUTE









































informacijske študije







#### **PRACE Achievements**

- 916 scientific projects enabled
- >32 billion core hours awarded since 2010
- Of which 63% led by another PI nationality than the HM
- ▶ R&D access to industrial users with >65 companies supported
- ▶ >17 000 people trained through PRACE Training
- ► ~220 Petaflops of total peak performance on 7 world-class systems.
- ▶ 25 PRACE members, including 5 Hosting Members (France, Germany, Italy, Spain and Switzerland)
- ▶ PRACE is the only e-infrastructure Landmark on the ESFRI Roadmap 2016



### **PRACE Virtues**

#### Resources





#### Services





#### People













- Training & Education
- **User Support**
- Code Enabling & Development
- Technology assessment



- Organisation of access calls (extreme scale, enabling, fast tracks, ...) for science & industry
- Peer Review process for Open Science
- Data services (Fenix, EUDAT)







## PRACE 3 The next step

- Change from a Cycle to a Service provider
- ► PRACE 3 Pillars and Principles:

PRACE adopts a user-centric approach federating HPC services

PRACE empowers User Communities

PRACE fosters International Collaboration PRACE as a European Research Infrastructure

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# THANK YOU FOR YOUR ATTENTION

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