



# Multiscale APPlications on European e-infRastructures



a project overview

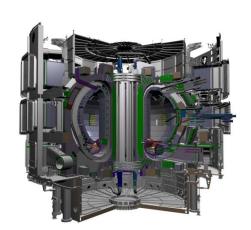


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### **Application Portfolio**



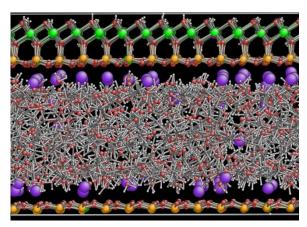
virtual physiological human



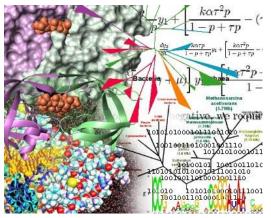
fusion



hydrology



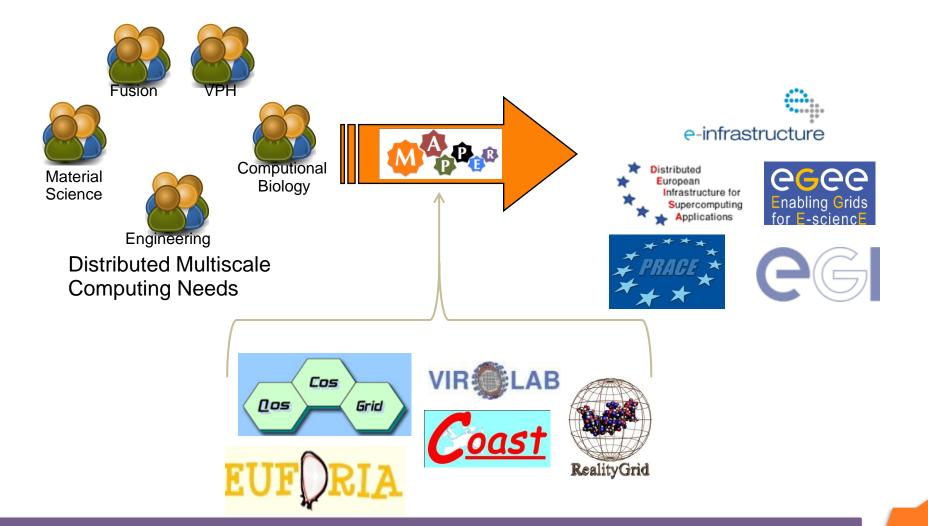
nano material science



computational biology

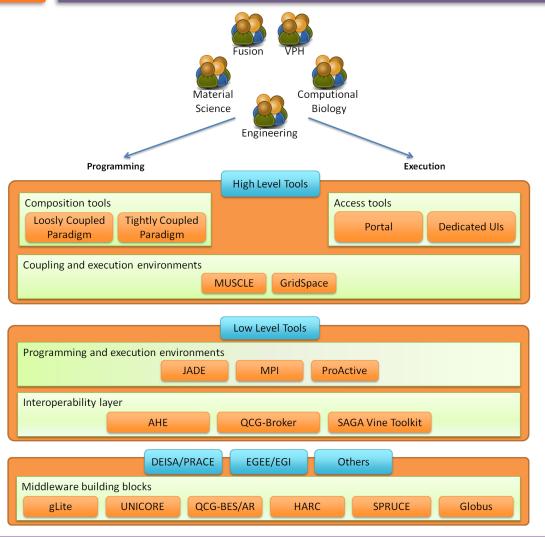
### Motivation: user needs





#### **Ambition**





- Develop computational strategies, software and services
  - for distributed multiscale simulations across disciplines exploiting existing and evolving European e-infrastructure
- Deploy a computational science infrastructure
- Deliver high quality components
  - aiming at large-scale, heterogeneous, high performance multi-disciplinary multiscale computing.
- Advance state-of-the-art in high performance computing on e-infrastructures
  - enable distributed execution of multiscale models across e-Infrastructures,

# Structure of Mapper



WP1

Management

WP2

 Dissemination and outreach

WP3

 Policy support and sustainability WP4

 Adaptation of existing services

WP5

Vertical integration

WP6

 Deploy to einfrastructure

# The MAPPER consortium





















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