



# Multiscale **APP**lications on European e-inf**R**astructures



a project overview

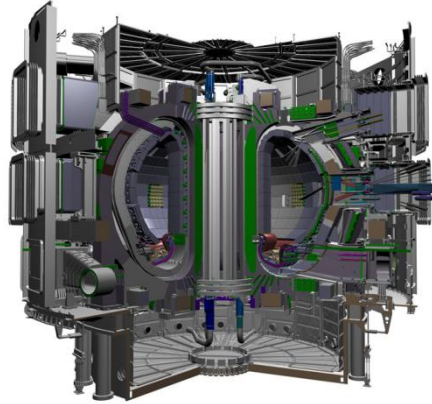


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# Application Portfolio



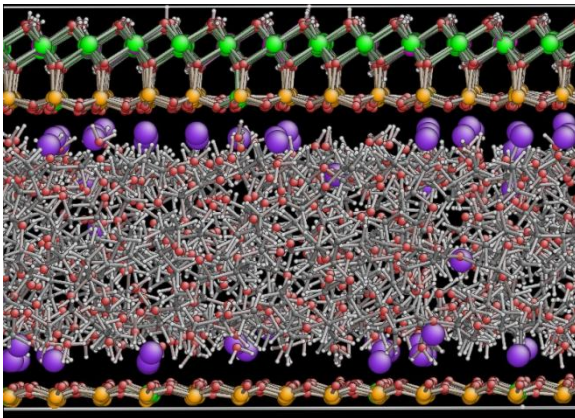
virtual physiological human



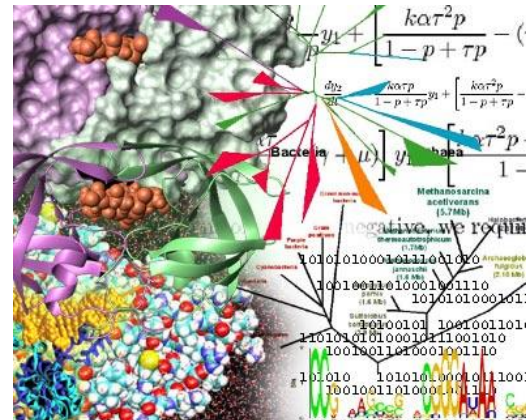
fusion



hydrology

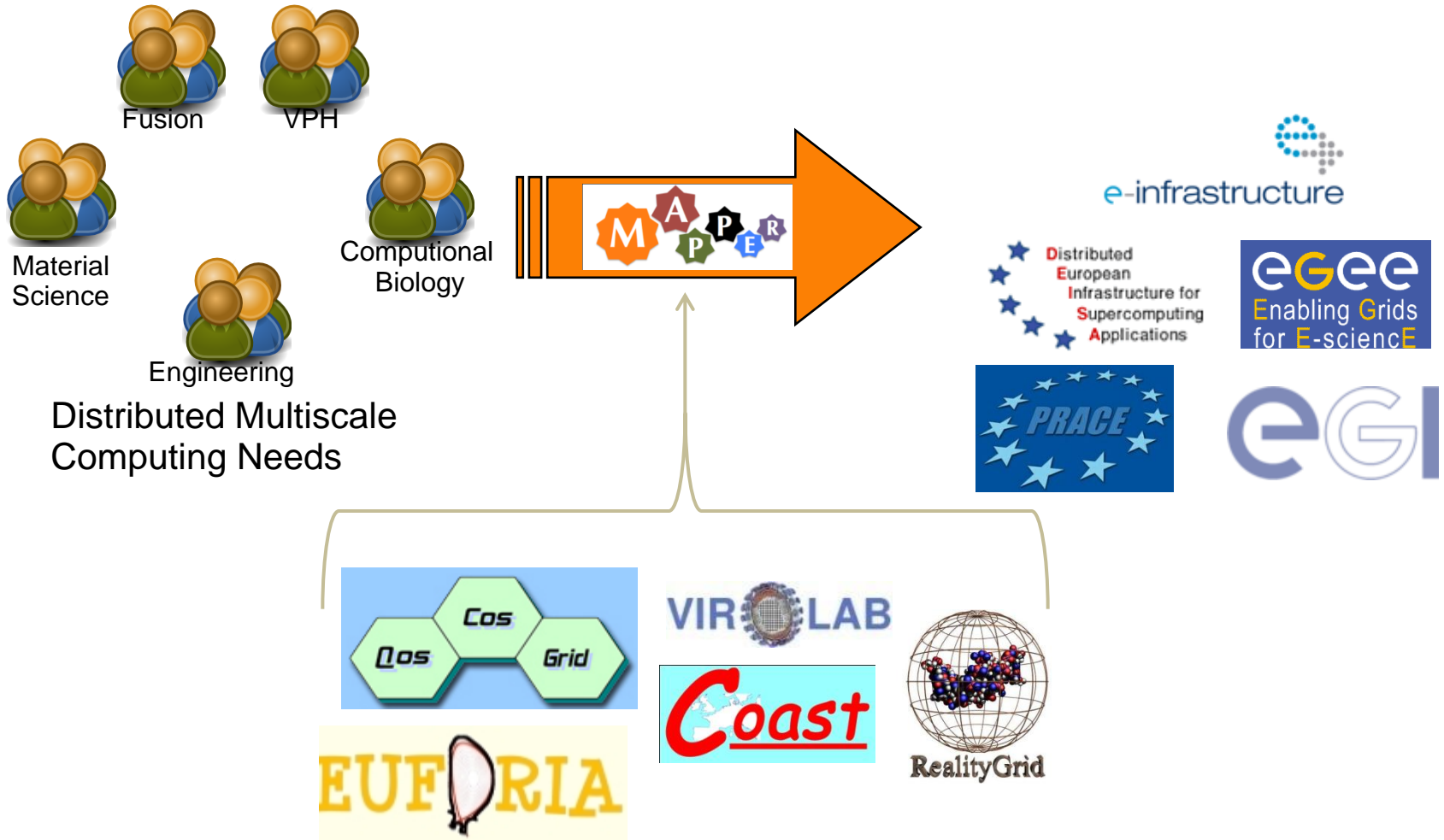


nano material science

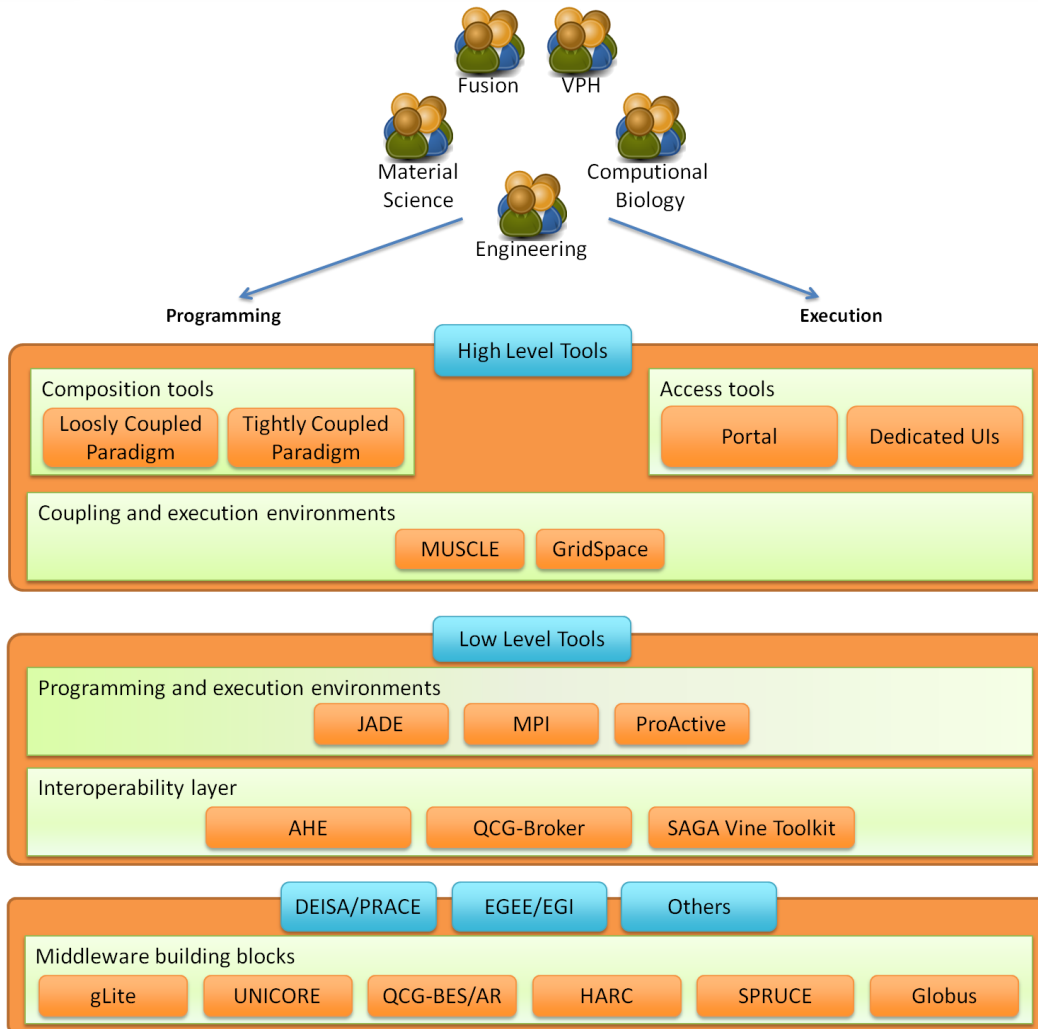


computational biology

# 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

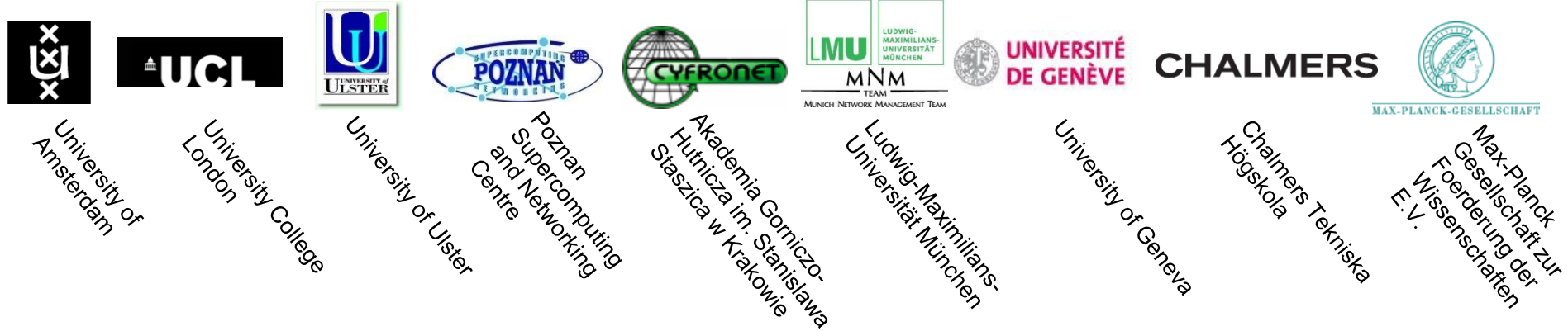
WP3 • Policy support and sustainability

WP4 • Adaptation of existing services

WP5 • Vertical integration

WP6 • Deploy to e-infrastructure

# The MAPPER consortium





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