

BDVA-EXDCI

User expectations

- Now or later?
- Science cycle
- Workflow implementation
- Short time to results
- Efficient use of the machine
- Numerical Simulation as a first need
- Storage (structured data most of the time)

Skill and competences

- Parallel Computer Architectures
- Scalable parallel algorithms
- Programming with MPI
- Parallel Computing with Hadoop
- Programming Shared Memory Parallel Systems
- Programming Multi-core and Many-core Systems
- Performance Engineering Programming
- Heterogeneous systems with OpenCL/CUDA Large scale Scientific Computation
- Advanced multiprocessor architecture
- Machine Learning
- Software Engineering
- Computational Finance
- Computational molecular biology
- Computer simulation of physical systems
- Numerical analysis and computational mathematics
- Advanced Algorithms
- Convex optimization and applications
- Particle-based methods
- Principles and applications of systems biology

Business model

- HPC targeting scientists and HPC centers — PRACE
- High end industry users — Own their infrastructure
- SME --> HPC as a service (?)

Action Sync with Andrea on next action

next sync at least in November