

High performance heterogeneous cloud infrastructures.

- The focus is on development, deployment and management of cloud-based infrastructures and services (IaaS, PaaS, SaaS) over **large-scale, distributed, heterogeneous, dynamic** computing and storage environments.
- **WG Activities:** Analysis Facility as-a-Service, Batch Farm as-a-service, GPU provisioning, intra-INFN federation, integration of external resource centres,...

Federated cloud networking

- Techniques for the deployment and management of federated and decentralised cloud infrastructures, in particular cloud networking techniques (within software-defined data centres and across wide-area networks) and mechanisms to enable incorporation of resources and services independent of their location across distributed computing and storage infrastructures. Approaches, including standards, to increase interoperability between cloud services and infrastructure providers to enable efficient interworking and migration of services, applications and data.
- **WG Activities:** interoperability (OpenStack, OpenNebula, Amazon,...), Cloud Brokering,...

- (Almeno una) call mappa molto bene con quello che vorremmo fare
- Minimal case: deployment di una infrastruttura “federata” (whatever it means)
- Più SaaS/PaaS che IaaS, se si vuole essere davvero innovativi
- Sorpassare il modello “batch queue as a service”?

Cloud computing research will be oriented towards **new computational and data management models** (at both infrastructure and services levels) ...

- **Focus #1:** individuazione di un modello per PaaS/SaaS per il calcolo scientifico
 - Sinergia con PRISMA (adesso) e OCP (poi)
- **Focus #2:** più “con chi” e “in che forma” che “cosa/come”
 - Caveat: partner industriali potrebbero essere più interessati a investire direttamente che partecipare a una call dal risultato incerto