COMPETENCE CENTRE PROPOSAL

LIFE SCIENCES / ELIXIR CC

LS community engagement, training and support

NGIs: CZ, IT, FI, FR, GR, NL, SL, SP

Life Science VRC
LS EGI champions
OSG community

ELIXIR nodes: Finnish, Czech Republic

Life Sciences CC goals

- Address the requirements of the LS community
  - Identify the infrastructure needs for the next 5 years
  - Study specific storage and security needs
  - Experiment the FedCloud infrastructure
- Facilitate infrastructure exploitation
  - Define best practices and a reference execution environment
  - Deliver community support, liaise with operations
  - Train users
- Bridge the gap between users and EGI -> meet half way:
  - Researchers should be motivated to change their processes to use new Big Data tools coming from e-infrastructure
  - ICT infrastructure providers should change their infrastructure to particular life science data analysis

Life Sciences CC projects

- Project 1: LS community integration (6 PM – M1-M9)
  - LS community networking
  - Liaison with EGI (UCB)
  - Use cases definition
  - Critical services identification
  - Best practices definition
- Project 2: LS community support (36 PM – M1-M30)
  - FedCloud infrastructure testing, in particular:
    - End-to-end trust analysis, privacy and security
    - Cloud resources monitoring, stress testing
  - Monitoring, troubleshooting, liaison with operations
  - Domain VMs creation and configuration / marketplace population

Life Sciences CC projects

- Project 3: community training and engagement (12 PM – M19-30)
    - Use cases implementation and testing
    - Community training
    - Dissemination

Expected outcomes

- Enlargement of the LS user community
- Stronger bounds between (remote) end-users and EGI infrastructure
- Raise the users level of expertise
- Improved science in the LS domain