LHC exp trends

- LHC experiments trend
 - Beyond MONARC --> full mesh connections, no more strict Role/use-case per site relationship
 - Job submission: pure data driven --> dynamic data placement
 - Job data access: LAN --> WAN
 - Job data access: read only data and meta data via http based +caching systems (see sw and conditions access)
 - Currently job is piloted
- Several CMS and ATLAS conceptual and concrete advice all over the various subjects have been provided

Start drawing the picture

- We have collected from the community several design information and several "for the future" suggestions and plans about the various aspects of HEP distributed environment:
 - workload management, data access, data placements/transfer, metadata management, inter-site functional infrastructure, data structure, other
- R&D work proposal in high level work-flow design
 - Define a prototype design for each of the macro subject starting by the up to date LHC solutions/trends
 - Elaborate the design --> new proposals can fit 2/5 years in future scenario
- Workload management can be the starting subject

R&D work proposals

- Job data access
 - Explore http/webdav data access frameworks
 - © CVMFS for read-only job file access
 - Frontier evolution studies (starting later)
 - EOS/NFS4 data access by jobs in WAN scenario (with storage group)
- Data transfer management system, comparison
 - Phedex system evaluation [CMS Bologna]
 - P2DP system evaluation
- Grid resource management framework
 - Evaluation of Dirac system (on going)
 - Evaluation of PANDA system

People interested in collaborating

- O. Dadoun
- A. De Salvo
- F. Furano
- A. Paolini
- K. Raczka (Polish group)
- Subset of CMS Bologna