

# Overview and Project News

Ricardo Rocha

( on behalf of the LCGDM team )



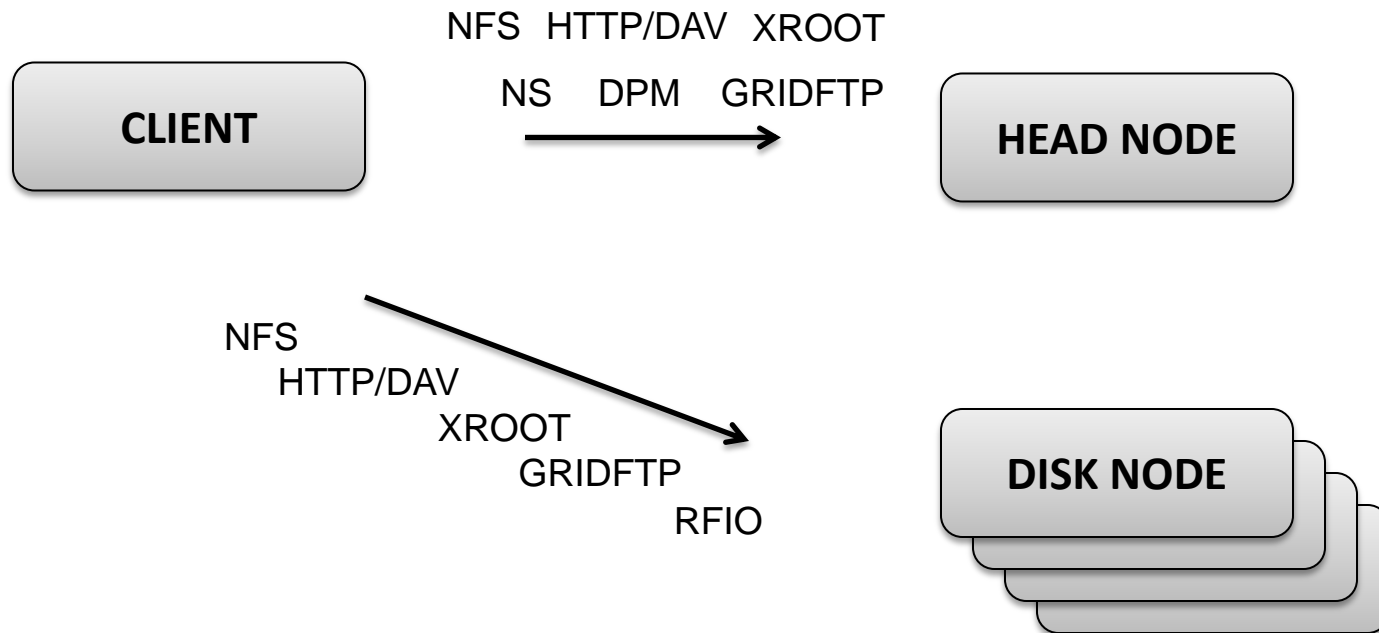
**Thanks to Michel for organizing  
this workshop !!**



# Main Goals

- Provide a lightweight, grid-aware storage solution
- Simplify life of users and administrators
- Improve the feature set and performance
  
- Use **standard protocols**
- Use **standard building blocks**
- Allow easy integration with new tools and systems

- Separation between metadata and data access
  - Direct data access to/from Disk Nodes
- Strong authentication / authorization
- Multiple access protocols

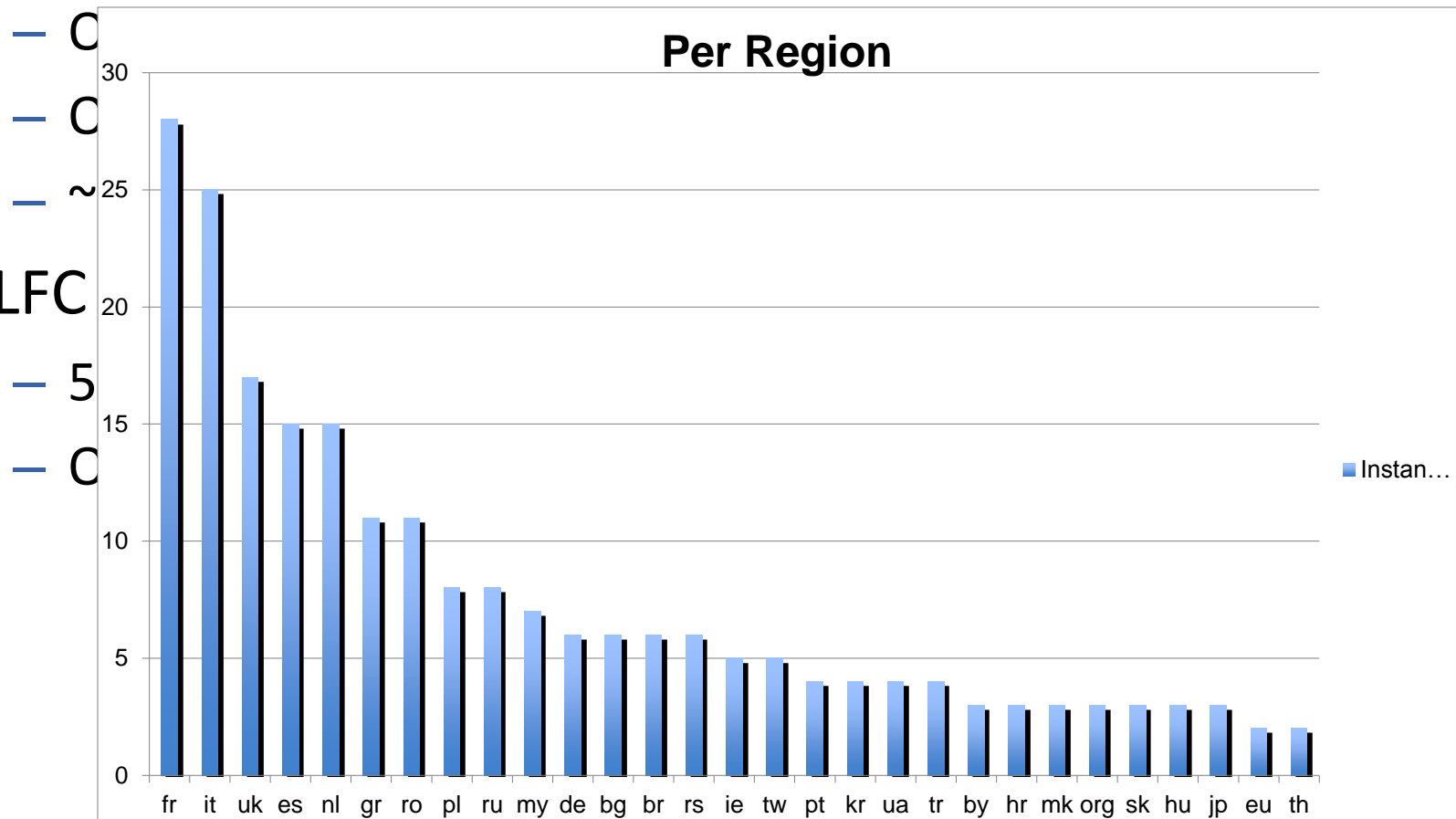




- DPM is the most widely deployed grid storage system
  - Over 200 sites in 50 regions
  - Over 300 VOs
  - ~36 PB (10 sites with > 1PB)
- LFC enjoys wide deployment too
  - 58 instances at 48 sites
  - Over 300 VOs

- DPM is the most widely deployed grid storage system

- LFC



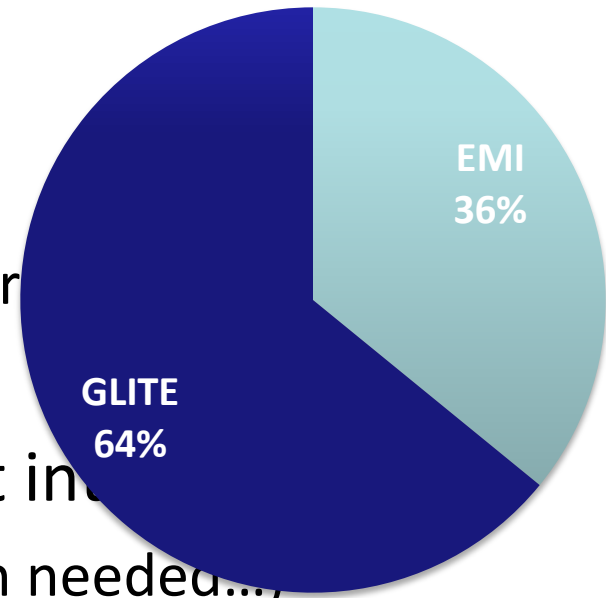


- DPM and LFC are available via gLite and EMI
  - But gLite releases stopped at 1.8.2
- From 1.8.3 on we're Fedora compliant for all components, available in multiple repositories
  - EMI1, EMI2 and UMD
  - **Fedora / EPEL**
- Latest production release is 1.8.5
  - We now have much more frequent releases
  - But smaller too
- Some packages will never make it into Fedora
  - YAIM (Puppet an option? Discussion needed...)
  - Oracle backend



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Mid October 12







- Are we moving? YES, and forward and fast 😊
- Last workshop was February 12
  - 1.8.3 was under certification
  - Pre-EPEL compliance
  - DMLite was a single slide teaser (lots of ideas)
  - New XROOT work was starting, DAV was around the corner
- All of this is done, and so much more
  - 1.8.5 is out, and the full stack is in EPEL since a while
  - DMLite is in production, and frontends are available using it
  - XROOT/DAV in production, fast and federation aware
  - ... and much more, to be presented in the next two days





- Other things moving a bit slower, we can improve...
  - Wide adoption of Nagios and Puppet
  - Setup of a testing infrastructure
  - Community contributions to development, admin tools
  - Some long standing features
    - i/o concurrency limits, cluster rebalancing, hot file replication, quotas (?), full NFSv4.1
- From now on contributions should be much easier
  - We will be showing why and how...





- Two days of packed presentations and tutorials
  - Let's make it interactive, promote discussion
  - Second day more hands-on, lots of demos
- Goals for the workshop?
  - Summarize recent user experiences, issues, ideas
  - Sync requirements with roadmap
  - Get you comfortable with DMLite, even trying it right now
  - Discuss how to improve certification, release process
  - Look around... something coming that we're missing?
- EMI ends... but we stay!

