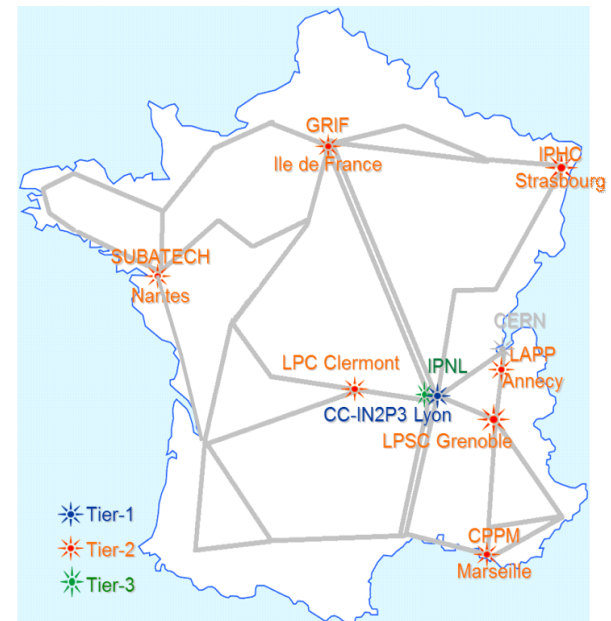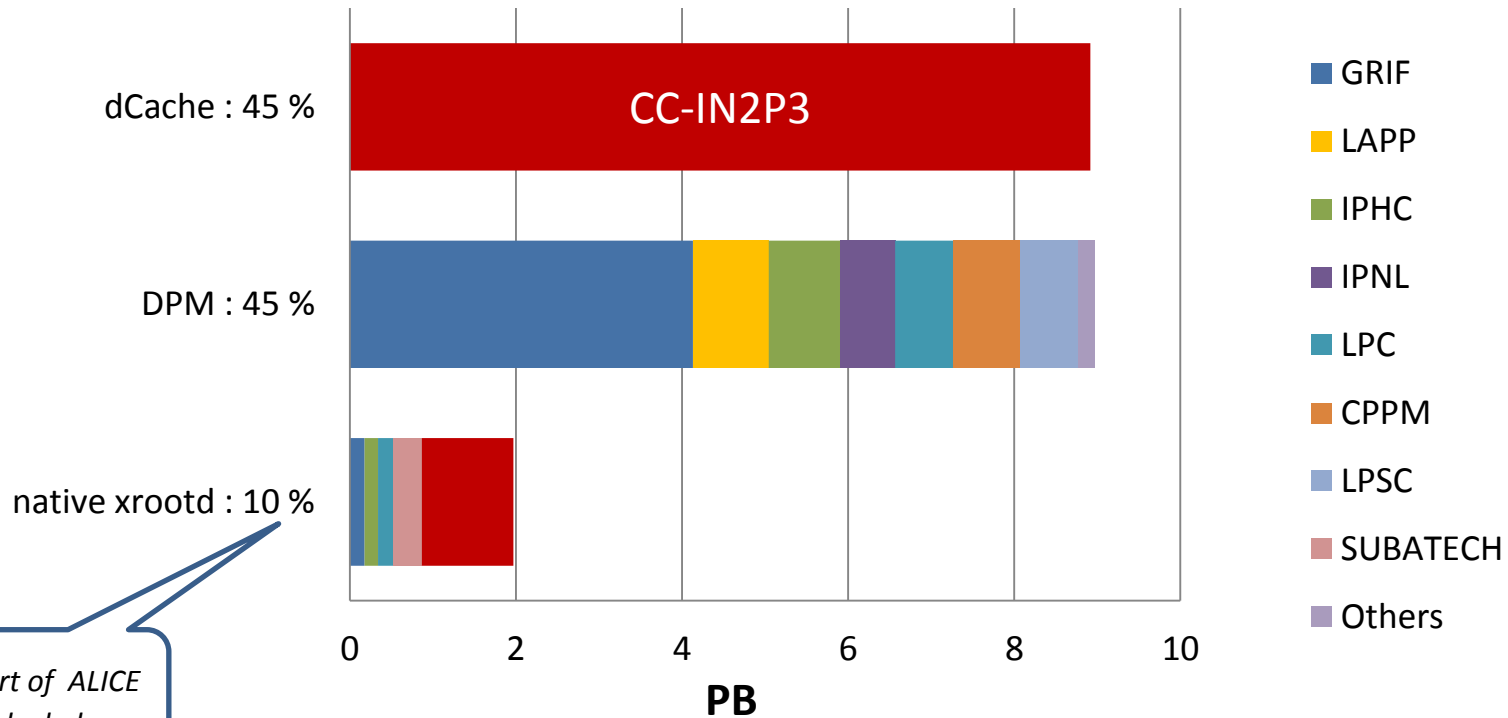# Status Report from France

F. Chollet, M. Jouvin
DPM workshop, Edinburgh
December 13, 2013

Grid Storage in France

Total disk capacity in France : ~ 20 PB

DPM Usage in France

- **DPM infrastructure : ~ 9 PB**

  - Mainly WLCG Tier-2 / Tier-3s: 7 sites, 12 production SEs

    – Also some other France Grilles sites (~3) but generally smaller

    – Most SEs between 600 and 800 TB but GRIF/Irfu > 1 PB

    – Support for non-LHC VOs

  - mainly deployed via Quattor

    – Benefiting from configuration (YAIM-free!) maintained by the community, documentation maintained on Quattor wiki (https://trac.lal.in2p3.fr/Quattor/wiki/Doc)

    – A few sites starting to look at Puppet: waiting to see the outcome of the HEPiX WG

  - Mainly version 1.8.6-1 but a few GRIF Ses (at least) migrated to 1.8.7

  - All DPM with Xrootd configured, a few ones with WebDav

    – WebDav configuration now supported by Quattor

- **French coordination around DPM via LCG-France technical group (monthly meetings, mailing list)**

  - Thanks to Fabrizio for participating to the last F2F meeting

Contribution to the DPM Collab.

- We failed to be active so far… but the motivation is intact!
- Main reasons for contributing
  - Storage is a key point for LHC computing and LHC France is a large contributor to it
  - DPM is a common solution among french sites: its sustainability is a major concern for us!
    - No clear alternative!
  - Major evolution in progress in WLCG data management and access and expected to continue in the next year: DPM must keep with these evolutions
    - Xrootd access and federation: we put a significant effort to convince DPM team that this was a requirement!
    - Non SRM access
    - Standard protocols like WebDav
    - Increased remote access to data, not necessarily restricted to failover

Contribution to the DPM Collab.

- FR contribution : IPHC, GRIF, LAPP, LPSC
- FR contribution based on 4 labs (IPHC, GRIF, LAPP, LPSC)
- Initial pledge: 0,5 FTE
  - Testing, monitoring and support
- Additional contribution for new developments (0, 4 FTE)

Area	Effort (FTE)	FR Site(s)
DMLITE / profiler, logging	0,2	LPSC
Web admin interface	0,2	LPSC
Monitoring : Nagios DMLITE probes	0,1	GRIF
Support (beyond local responsabilities)	0,2	GRIF
Permanent pilot testing (updates validation)	0,1	GRIF, LAPP
New feature validation (e.g. DAV)	0,1	Several (adhoc)

Next steps

- Better integration of French participants into development activities
  - Several people involved
  - Need to ensure a rotating participation to dev meeting with appropriate circulation of information
- EPEL-test testbed
  - 2 test SEs available: LAPP and GRIF/LAL
  - Exact expectation compared to existing dev testbed to be clarified, in particular how are they used (hammercloud?, update frequency…)
- Developments: people involved not connected to grid operations or DPM
  - Need to organize a F2F meeting between them and dev team to rediscuss the needs
  - Initial plan was a web tool for DPM administration and a log file analyser
    - Log file analyser: need to discuss if it includes log files reengineering