

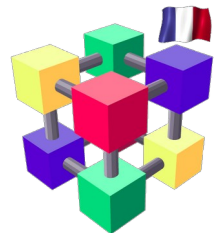


# DPM sites in France (status and plans)

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GDB – Dec. 8th 2021

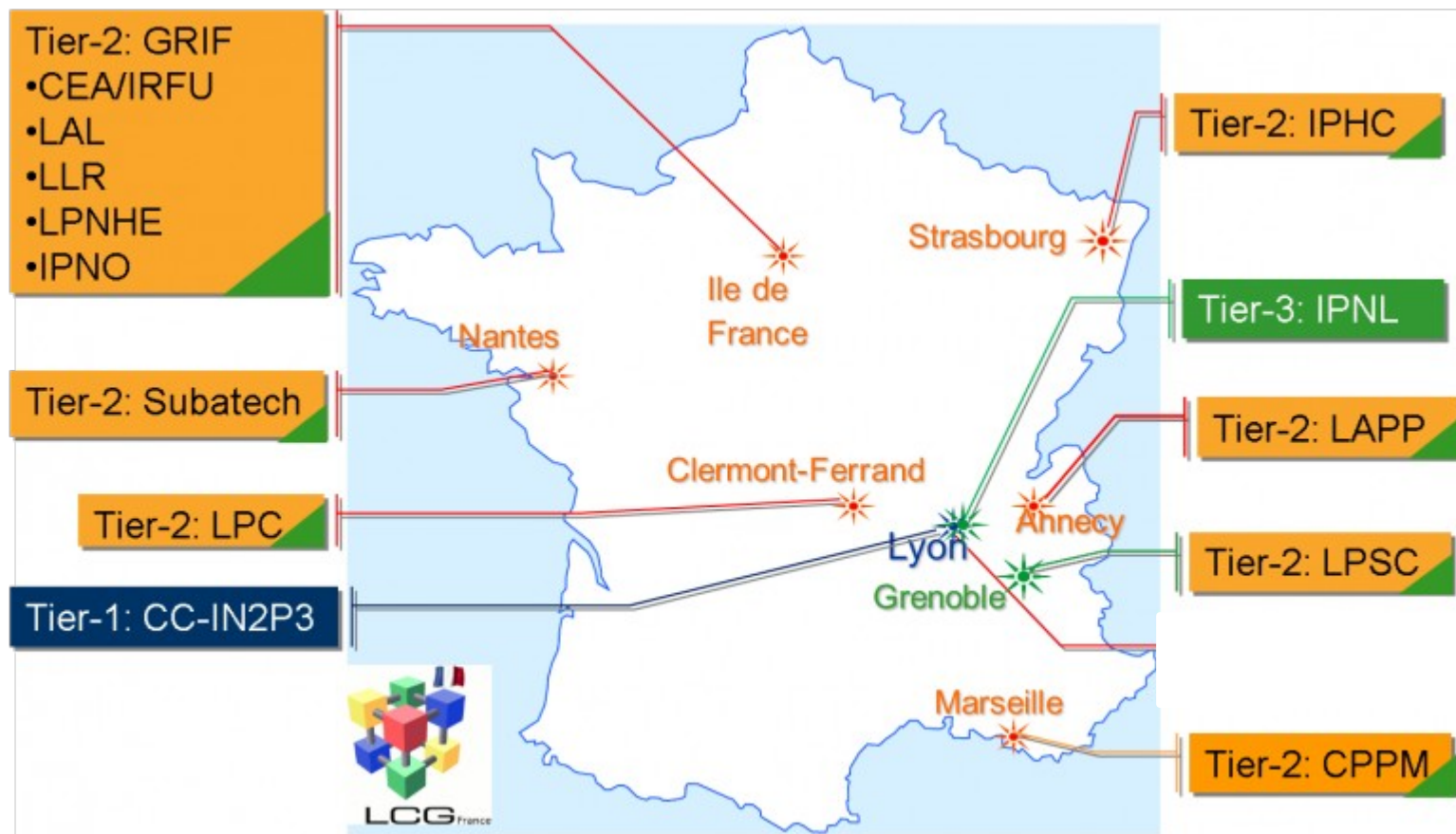
David Bouvet (IN2P3-CC) on behalf of French Tier2s



DPM in use in French Tier2 sites except

- SUBATECH moved from XrootD to EOS in April 2014
- Tier3 IPNL went to EOS for ALICE in 2020. End of transition with migration to EOS of the CMS storage coming soon.

CC-IN2P3 Tier1 with dCache



Sites	Capacity (PB)	ALICE	ATLAS	CMS	LHCb
CPPM	2,8		X		X
GRIF	11,2	X	X	X	X
IPHC	2,6	X		X	
LAPP	3,7		X		
LPC	2,6	X	X		X
LPSC	0,7		X		

## LPSC

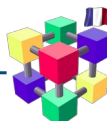
- Site will close in 2023 → no migration

## GRIF

- 5 sites under GRIF name but not seen as a single CE/SE
  - multiple storage endpoints → intention to go to a single one – resilience target: failure of 1 site should not impact more than the data hold by site.

## ALPAMED

- R&D DPM federation in DOMA context
  - sites involved: CPPM, LAPP, LPC, LPSC
    - DPM headnode in LAPP



## During 2020 - 2021

- Several discussions about the alternatives to DPM on
  - dCache with French T1 expert
  - EOS based on SUBATECH experience
    - an EOS testbed was set up for the sites admin willing to practice
- GRIF
  - discussions with dCache and EOS experts
  - 2 PoCs for each product set up in 2021

## Choice of sites

- IPHC: still not decided between EOS and dCache → decision in January
- GRIF → EOS
  - reason: easier and more automatic resilience from EOS database than dCache one in a distributed environment with multiple DB instances.
- CPPM, LAPP, LPC → dCache
  - reason: more straight forward migration with Petr's script
- LPSC → no migration (coming closure)



# Next steps to move out from DPM

No precise schedule : sites will move asap

Experiments being involved when sites ready to move

## EOS at GRIF

- Migration plan to be defined by end of January with intention to migrate all LHC VOs by end of 2022
  - migration of DPM instances then going to federation to present a single endpoint
  - implies data movement, to be coordinated with experiment operation

## dCache sites

- Training period for site admins on technical and operational sides
  - take advantage of T1's experience
- Migration test using ALPAMED testbed using Petr's migration script

## Questions :

- Petr's migration script :
  - multi-VO supported by migration script ?
    - avoid problem like seen with LHCb space-token migration which leads in several months of delay and efforts.
  - when will it be available ?
    - sites are eagerly waiting for it. If not available, need to know rapidly.

