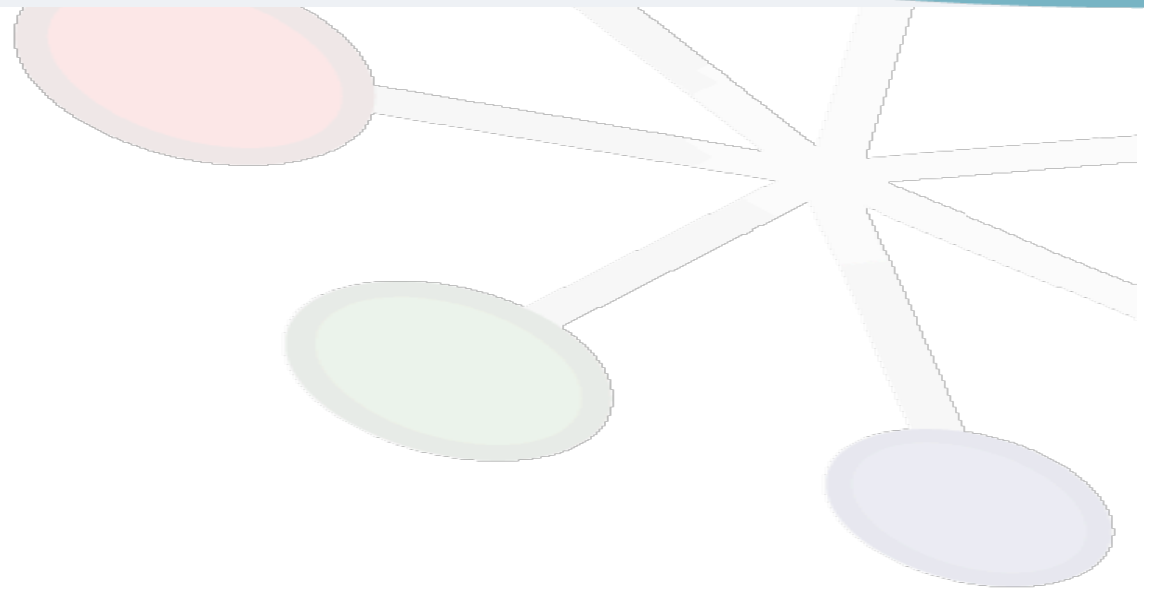


# LHCb Computing status

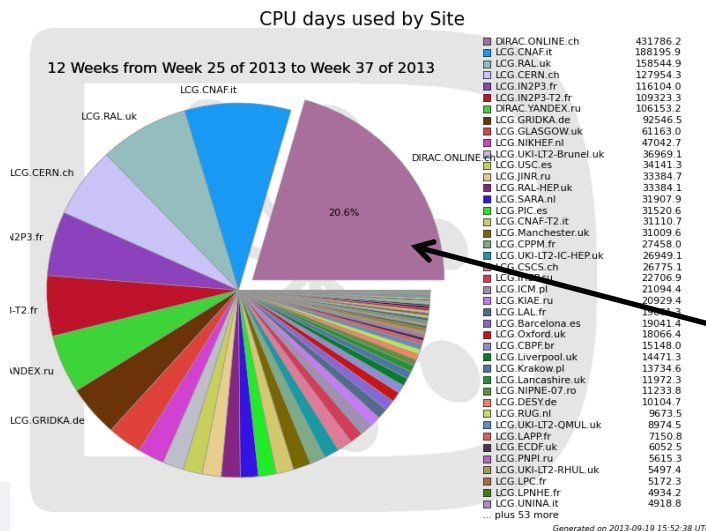
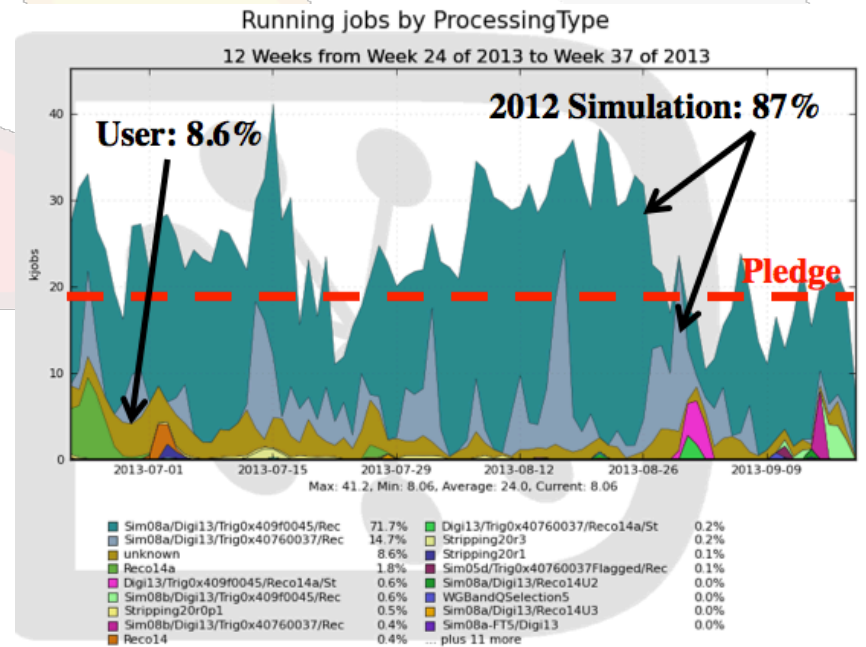




# Production activities since last LHCC

- Completed first incremental restripping of 2011 and 2012 data
  - 2012 delayed by tape access problems at FZK, now resolved
  - Second incremental restripping campaign ready to start
    - Throughput still limited by tape access speed
    - Plan to keep one complete copy of FULL.DST (reconstruction output) on disk during 2014 to facilitate future strippings

- Simulation of 2012 in full swing
  - Reduction by factor 2 in event size
    - Improved compression
    - Removal of generator level info (HepMC) from default output
  - 50 TB/week increase in disk usage



HLT farm largest site



# Disk storage

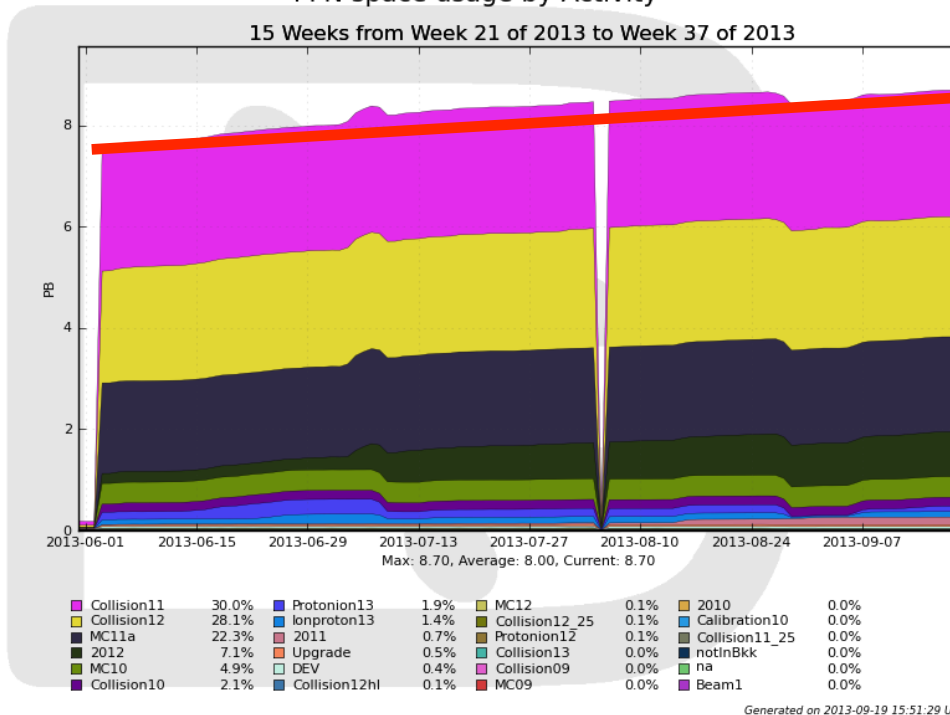
- **2013 pledge: 11PB, installed ~12PB**

Current usage: 8.7 PB

PFN space usage by Activity

Slope: 50 TB/week

→ ~10 PB 31/03/14



(balance to be used for FULL.DST to speed up future restrippings)

- **Change in computing model:**

- **Allow disk (and analysis) at selected Tier2 ('T2-D')**

☆ Goal is ~10 sites with >300TB per T2-D, but start with 100TB

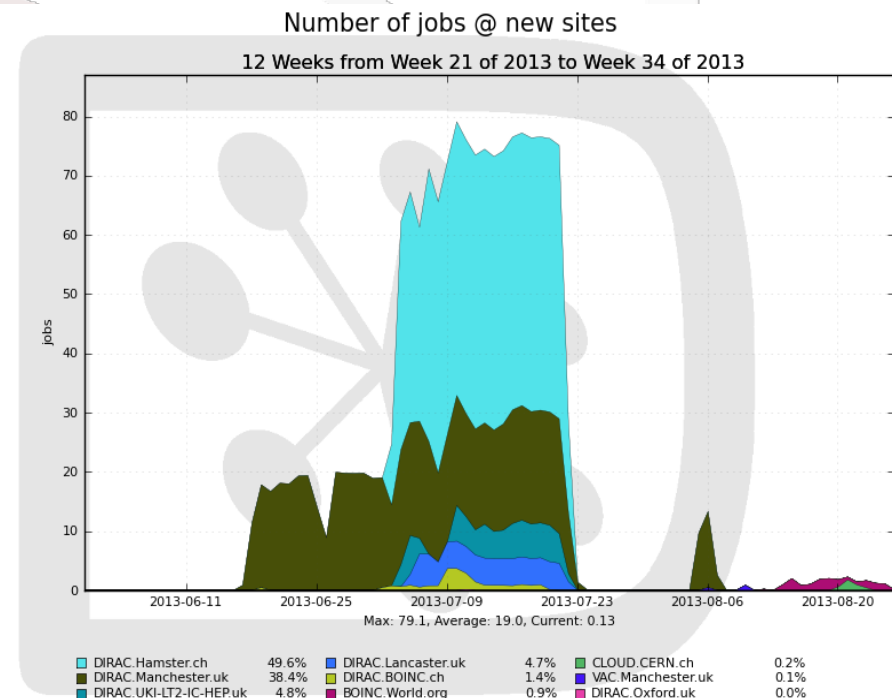
- **Four sites commissioned during summer**

☆ Going in production this month



## New infrastructures

- Started to commission new infrastructures in DIRAC:
  - **Vac infrastructure**
    - ☆ Developed within GridPP, uses “spontaneous” generation (out of vacuum, hence the name) of Virtual Machines on behalf of VOs
  - **Clouds**
    - ☆ VMs running on Cloud infrastructure (currently only at CERN) act as pilots for the LHCb jobs
  - **Volunteer computing**
    - ☆ Testing a prototype of volunteer computing using the BOINC infrastructure. Currently it is not yet public, but starts being used by LHCb members
- Proofs of principle
  - Demonstrates flexibility of VMDIRAC contextualisation



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