

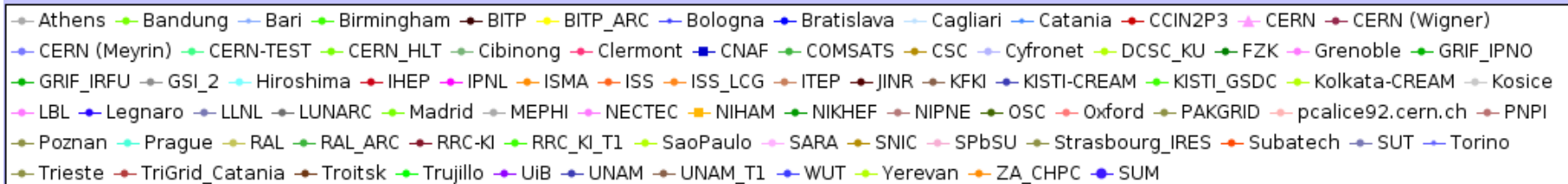
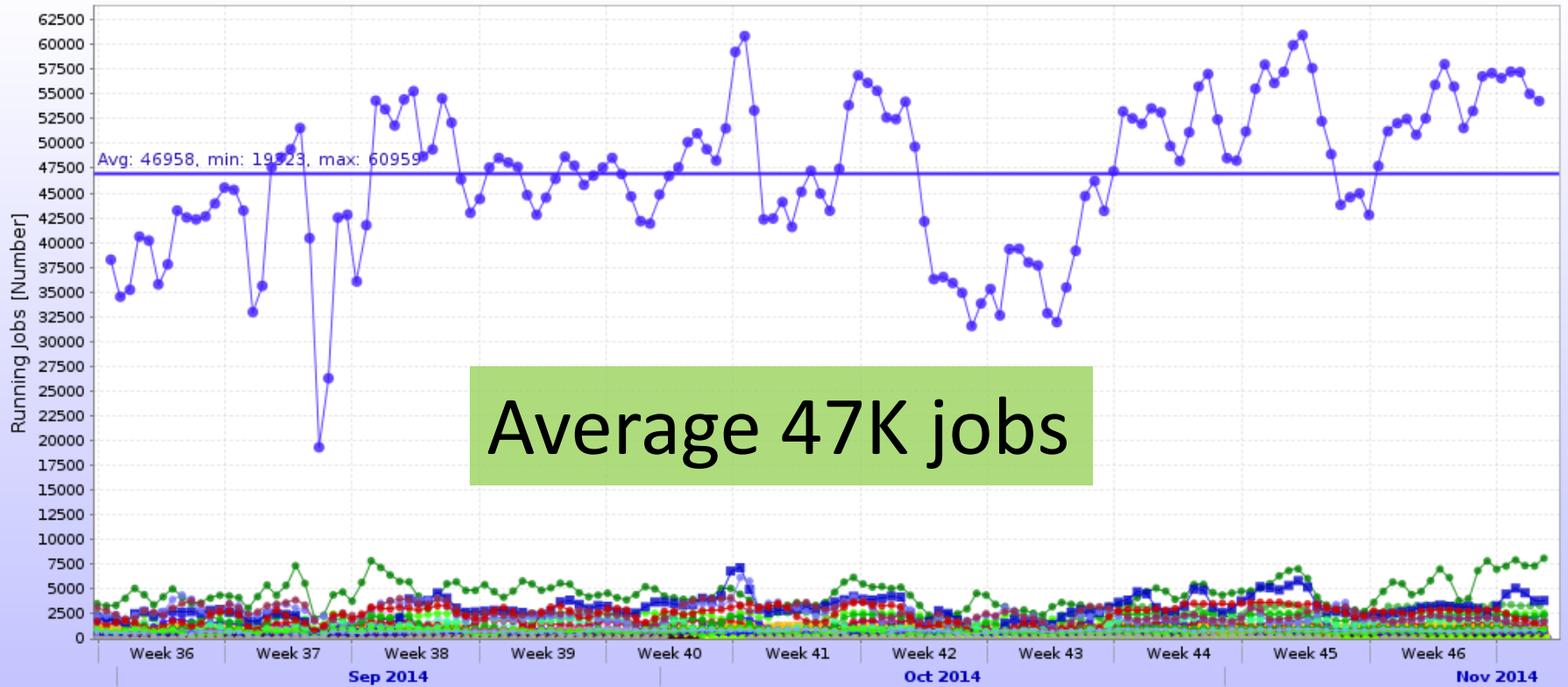
SPS

Offline week

21/11/2014

Job profile last 3 months

Running Jobs



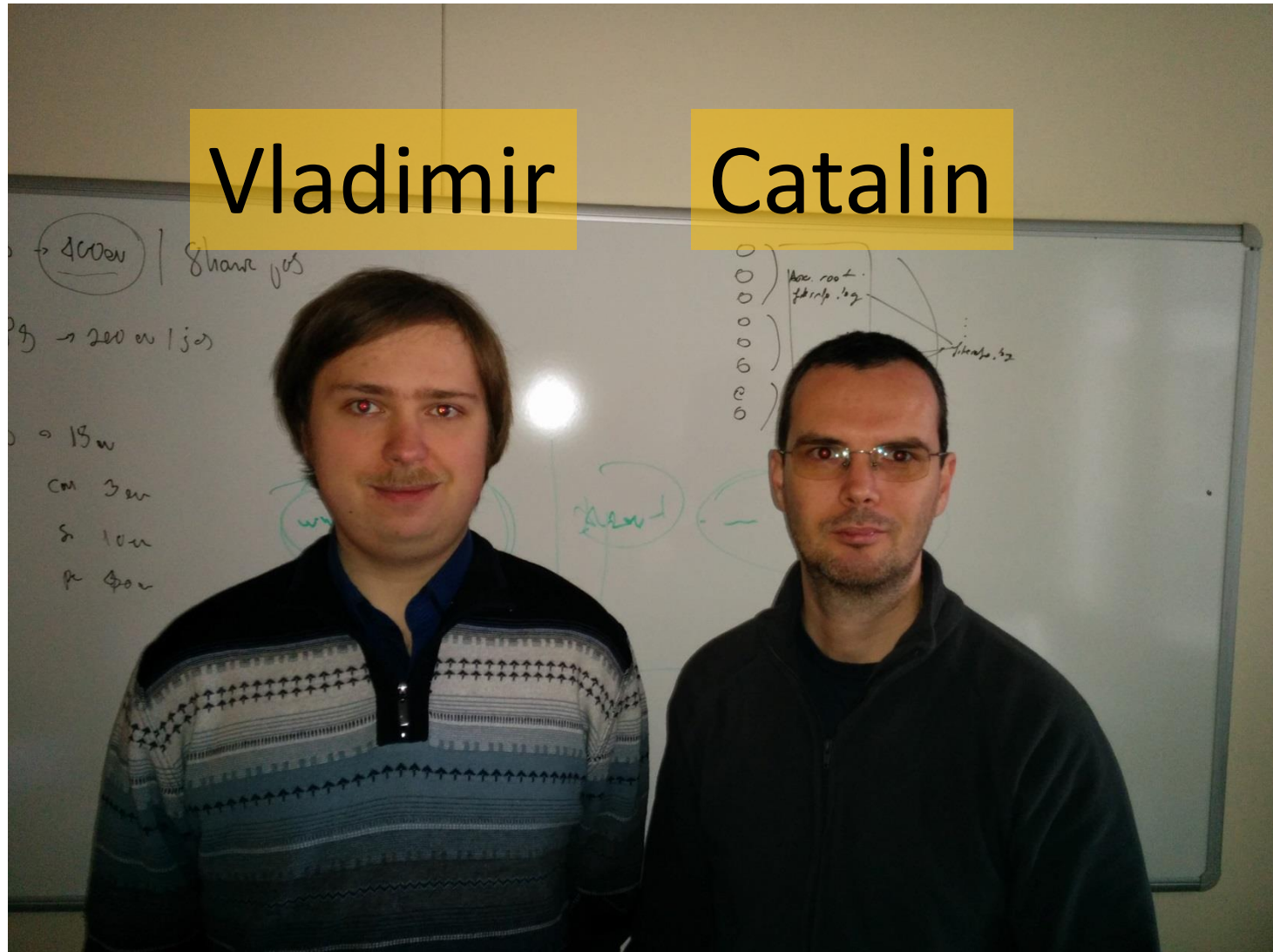
Workload

- 47K jobs = our allocation
- There are periods of incomplete saturation
- In the past month we got more resources than the ALICE share (good!)
 - And were able to use them
- Production requests are still not as consistent as to allow for a 100% (plus some safety) resources fill

Statistics

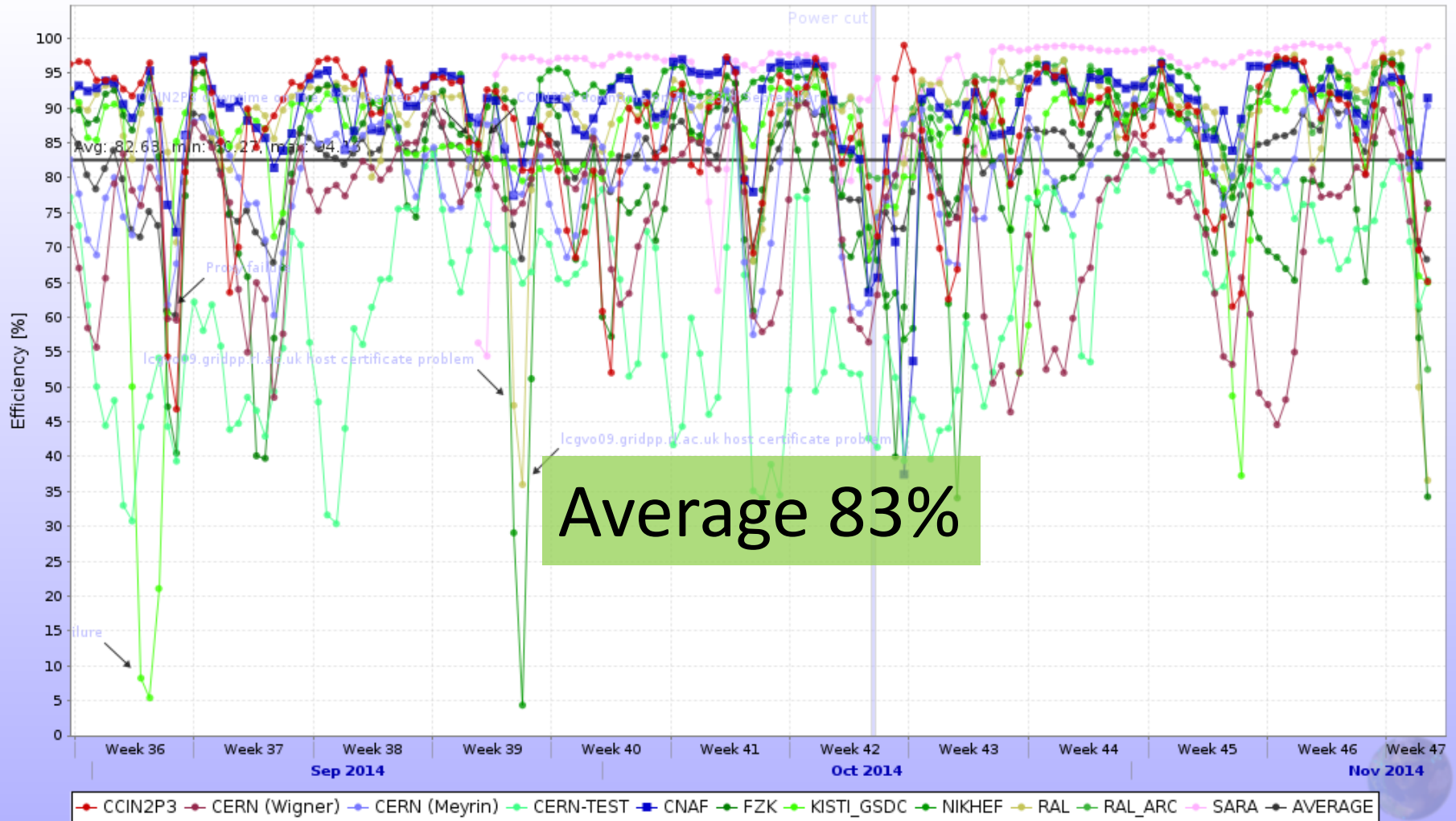
- 76 MC production cycles
 - A bit less than same period last year
 - 3.6 billion MC events (3x more than last year)
- LHC10 data processed
 - 900 million events
- Production setting/operation is a service task since >1 year

Productions setup/running



T0+T1s efficiencies last 3 months

Jobs efficiency (cpu time / wall time)




Status of infrastructure

- Operating system on all sites SL6 (or compatible)
 - Time to move to SLC6 build
- Storage
 - xrootd regular updates, some SEs with xrootd v.4
 - Need to move to xrootd v.4 client
- Sites (new)
 - Indonesia (Bandung, Cibinong)
 - Mexico (UNAM new T2 -> wil become T1)

... a bit more on RAW processing

Production	Description	Status	Run Range	Runs	Chunks	Size	Chunks	Size	Events	Running		
LHC10g_pass4	LHC period LHC10g - Full production pass 4, ALIROOT-5311	Completed	135941 - 136193	10	5,158	13.17 TB	5,080	98%	1,069 TB	8%	18,997,194	3y 110d
LHC10f_pass4	LHC period LHC10f - Full production pass 4, ALIROOT-5311	Completed	133005 - 134304	26	32,502	85.78 TB	32,414	99%	8,709 TB	10%	106,718,037	20y 102d
LHC10e_pass4	LHC period LHC10e - Full production pass 4, ALIROOT-5311	Completed	127712 - 130850	166	108,038	282.4 TB	107,051	99%	30.8 TB	11%	318,274,433	65y 102d
LHC10d_pass4	LHC period LHC10d - Full production pass 4, ALIROOT-5311	Completed	122372 - 126437	107	66,827	174.6 TB	65,943	98%	19.53 TB	11%	246,680,781	50y 61d
LHC10c_pass4	LHC period LHC10c - Full production pass 4, ALIROOT-5311	Completed	118503 - 121040	91	37,843	98.47 TB	37,742	99%	16.15 TB	16%	162,593,210	26y 44d
LHC10b_pass4	LHC period LHC10b - Full production pass 4, ALIROOT-5311	Completed	114751 - 117222	83	10,526	25.63 TB	10,487	99%	2.807 TB	10%	47,628,576	7y 229d
					260,894	680.1 TB	258,717		79.07 TB		900,892,231	172y 286d

- Comparison with the previous cycle (same run list)
 - LHC10b(p3) 5y 347d (-15%)
 - LHC10c(p3) 23y 50d (-12%)
- Should understand the increased reco time



Running
3y 110d
20y 102d
65y 102d
50y 61d
26y 44d
7y 229d
172y 286d

Skipping VPass – PWG-PP

- Current chain of processing:
 - CPass0 \rightarrow { CPass1 + QA + manual calib. } \rightarrow {Vpass (10%) + QA} \rightarrow {PPass + QA}
- From our experience, VPass QA does not intercept the problems not seen in CPass QA
 - But it adds $> \sim 2$ weeks to whole loop, with pure processing time being a small fraction
 - comparable to PPass timing
- Proposal to suppress VPass from the routine production chain
 - In worst case, if the problem is spotted, PPass will be repeated
- For very large (e.g. PbPb) or principally new data productions the VPass still can be applied

Summary

- Continuous production activities, resources well used
- MC productions completed according to requests
- RAW data re-processing before start of data taking is becoming critical
- No major perturbations foreseen – all changes in the underlying infrastructure and services is done ‘on the fly’ with minimal disturbance to operations