Off-line Requirement Production Review

Federico Carminati CERN, February 2, 2011

Why this meeting?

- We have been highly successful in publishing early papers
- But we still can use only a small fraction of the events taken
- This is limiting our physics potential and may seriously tarnish our image
- The scope of this meeting is to find short term solutions to this problem

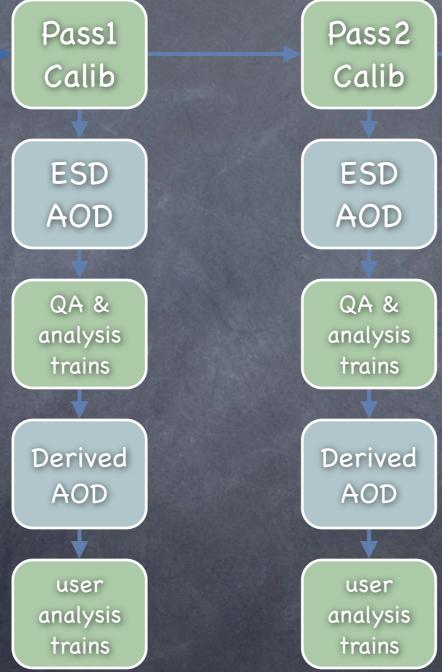
Productions

- Done Pass2 + MC
 - LHC10b,c,d
- LHC10E ongoing now
 - We had to add Pass0 to Pass2
- Remaining Pass 2's
 - LHC10 f,g (calibration promised end Jan)
 - LHC10 H (with pass 0)
 - Calibration promised mid Feb
- Pass 3 of everything (?)

Production workflow (CM)

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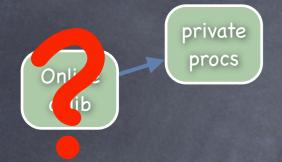
Online calib

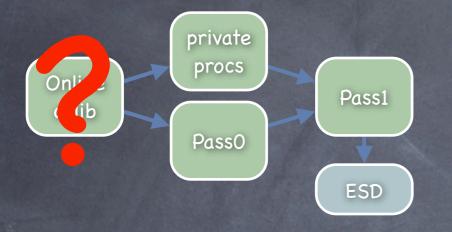


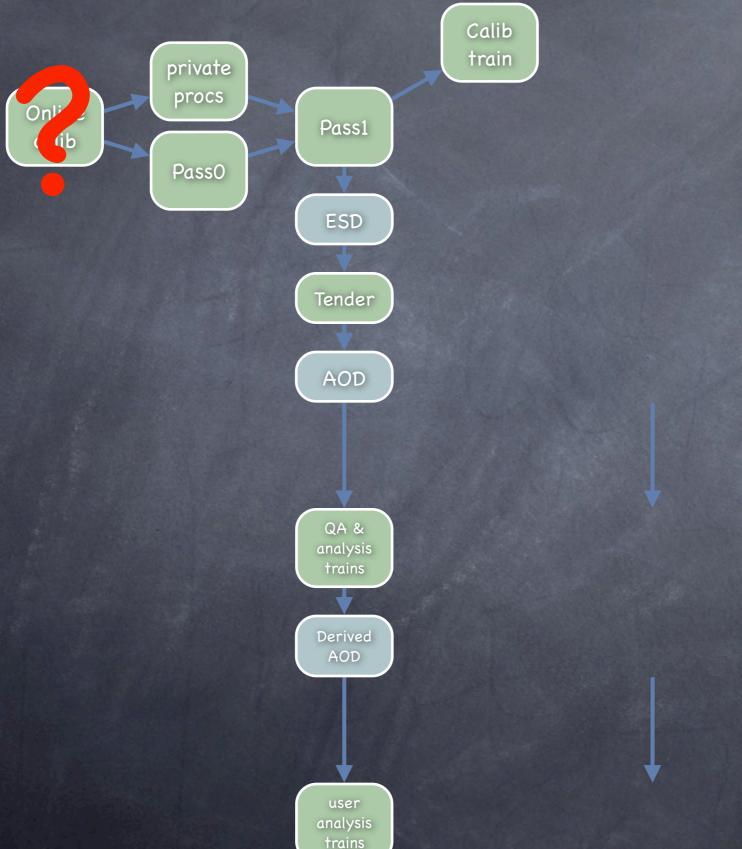
Pass3 (Calib) ESD AOD QA & analysis trains Derived AOD user analysis

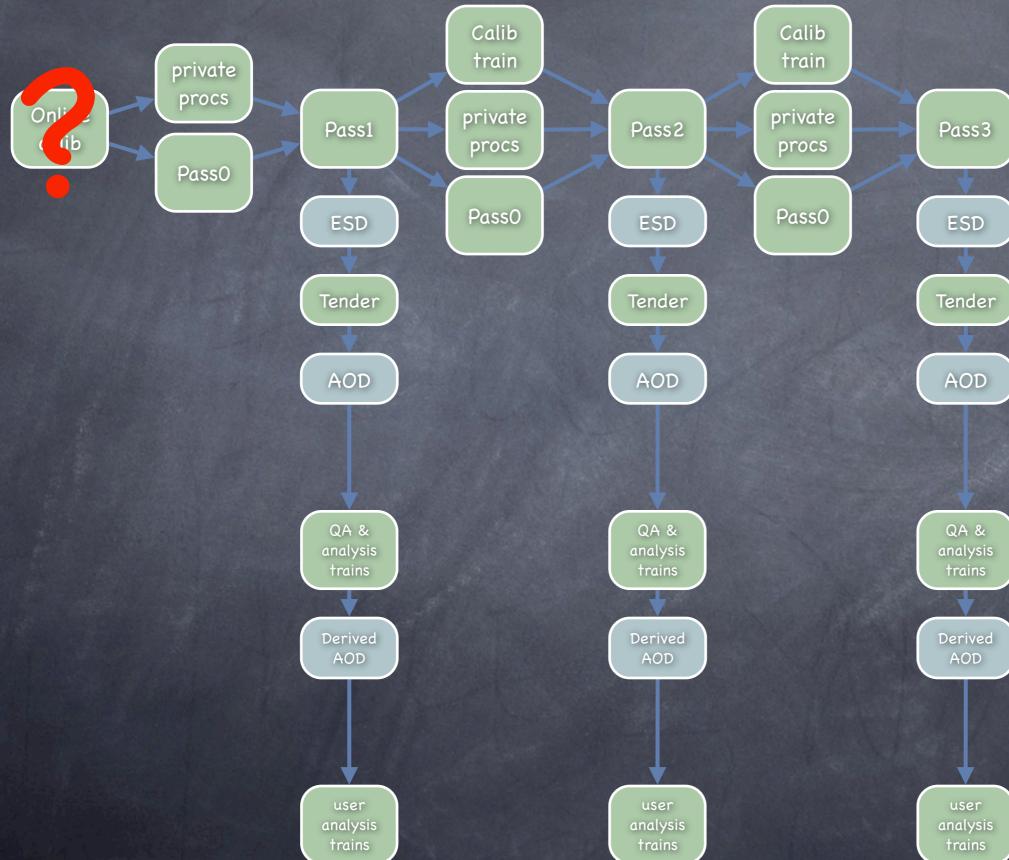
trains

Online calib









Resource outlook

		2011 (RRB year)				2012 (RRB year)				2013 (RRB year)			
		T0	CAF	T1	T2	T0	CAF	T1	T2	T0	CAF	T1	T2
CPU (KHEP06)	Requested	81.8	22.5	144.0	128.8	87.4	13.8	194.4	138.3	78.5	17.3	132.3	140.6
	Pledged	48.3	13.7	71.5	107.1	51.0	18.2	74.9	117.0	-	-	-	-
	Missing	-41%	-39%	-50%	-17%	-42%	32%	-61%	-15%	-	-	-	-
Disk (PB)	Requested	6.8	0.5	8.7	8.6	9.6	1.3	13.3	11.2	11.2	1.6	15.0	12.7
	Pledged	5.5	0.5	5.5	8.0	6.6	0.6	6.5	11.1				
	Missing	-19%	-17%	-36%	-7%	-32%	-55%	-51%	-2%	-	-	-	-
MSS (PB)	Requested	9.7		28.7		14.1		46.6		16.7	-	61.5	
	Pledged	6.8		8.0		7.8		11.1					
	Missing	-30%	-	-72%	-	-44%	-	-76%	-	-	-	-	-

Why this is a problem

- Very complex operation
- Large overhead in space and time
- Reproducibility of results is compromised
- AOD and ESD are not consistent
- QA makes little sense with all this fudging
- ...and we are underprovisioned

Accelerator schedule (post Chamonix)

- pp in 2011@3.5+3.5 TeV (easier to combine statistics). β*
 10m displaced beams
- LHC target >> 1fb⁻¹. 75 or 150ns going to 50 or 75ns after the scrubbing
- pp@√s=2x2.76 TeV after first technical stop ⇒ mid April.
 - 5 days: 1 setup + 4 running, 35h beam ~50 M events
- 4 weeks of Ions, 30μb⁻¹ (3*this year)
- 3 months 2011-2012 X-mas stop for maintenance



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Welcome (visitor)

Welcome to Quark Matter 2011

23-28 May 2011 -- 22 May student day



- I am not worried because we have a complex strategy
- I am worried because we have NO strategy
- We are just piling up "hooks" to fix the preceding step
- I hope we will come out of this meeting with
 - Some practical solutions for the short term
 - A proposal on how to evolve our model

