Vertical-Slice Tests

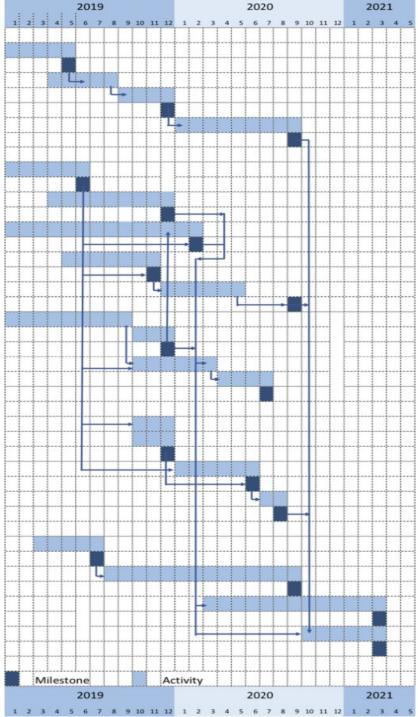
Massimo Lamanna

Content

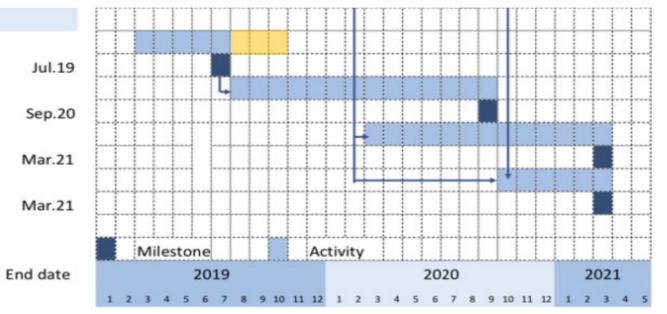
- Review status
- Inventory of the next steps
 - and activities on the Vertical Slice
- Horizon now to entire 2020Q1
- Next meeting during the mW?

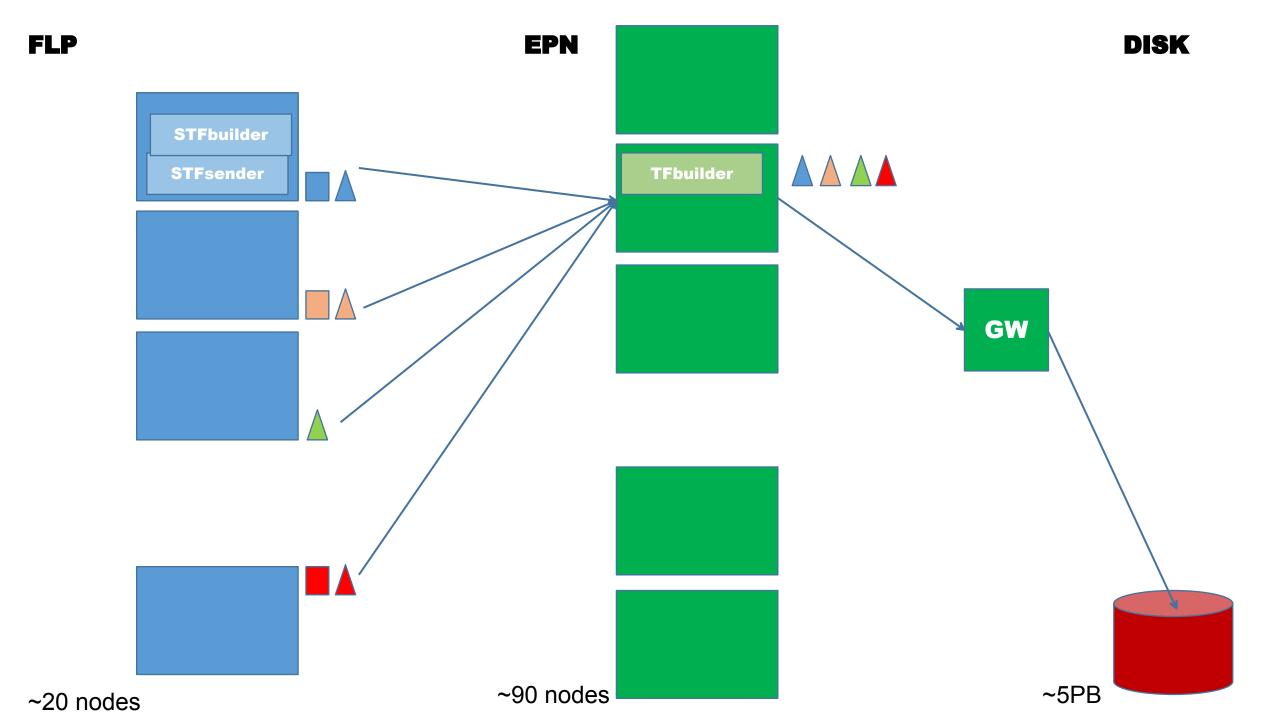
O2 milestones (see next pages)

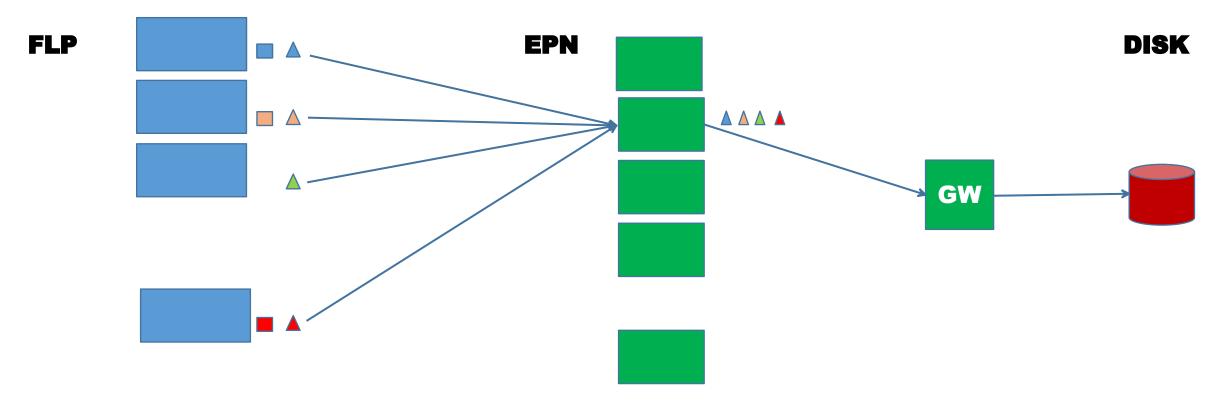
vtivity		End date
Milestor	ne	
	FLP	
1	Qualification of FLP nodes	
2 FLP.1	PRR: Ready for FLP tender	May.19
3	FLP call for tender and purchase	
4	FLP Delivery & Installation	
5 FLP.2	FLP ready for detector commissioning	Dec.19
6	FLP & individual detector commissioning	
7 FLP.3	Individual detector commissioning finalized	Sep.20
	PDP	
8	Development of barrel detector reconstruction	
9 PDP.1	EDR: Reconstruction barrel detectors	Jun.19
10	Development of out-of-barrel detector reconstruction	
11 PDP.2	EDR: Reconstruction out-of-barrel detectors	Dec.19
12	Development & integration of calibration SW	
13 PDP.3	PRR: Reconstruction & calibration SW ready	Feb.20
14	Disk buffer tests	
15 PDP.4	PRR: Ready for disk buffer tender	Nov.19
16	Disk buffer tender and delivery	1101.13
17 PDP.5	Disk buffer installed and ready for commissioning	Dec.20
	Detector description, digitisation	Dec.20
18	Raw data creation	
19 20 PDP.6	Ready for simulation challenge	Dec.19
		Dec.15
21	Reconstruction of simulated data	
22	Run Analysis Challenge	
23 PDP.7	Analysis Challenge result ready	Jul.20
	EPN	
24	Dimensioning of Computing nodes & network	
25	Market survey	
26 EPN.1	PRR: Ready for EPN & network tender	Dec.19
27	Tender EPN & network	
28 EPN.2	Delivery EPN & network	Jun.20
29	EPN & network installation	
30 EPN.3	EPN and network ready for comm.	Aug.20
	Global	
31	Vertical slice test system preparation	
32 O2.1	Vertical slice test system ready	Jul.19
33	Vertical slice test (with dummy data)	
34 O2.2	Vertical slice test (with dummy data) finished	Sep.20
35	Vertical slice test (simulated data)	
36 O2.3	Vertical slice test (simulated data) finished	Mar.21
37	O2 global commissioning (all detectors)	
38 O2.4	O2 global commissioning (all detectors) finished	Mar.21
	Milestone	End date
	Milestone	Life date



	Global	
31	Vertical slice test system preparation	
32 O2.1	Vertical slice test system ready	Jul.19
33	Vertical slice test (with dummy data)	
34 O2.2	Vertical slice test (with dummy data) finished	Sep.20
35	Vertical slice test (simulated data)	
36 O2.3	Vertical slice test (simulated data) finished	Mar.21
37	O2 global commissioning (all detectors)	
38 O2.4	O2 global commissioning (all detectors) finished	Mar.21

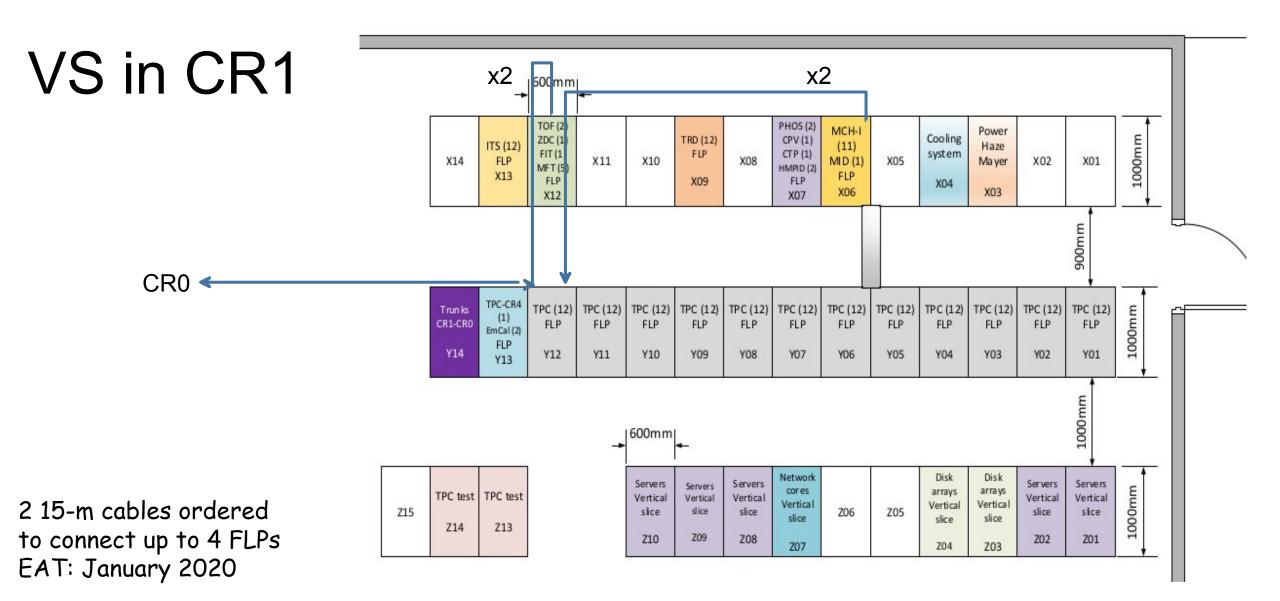


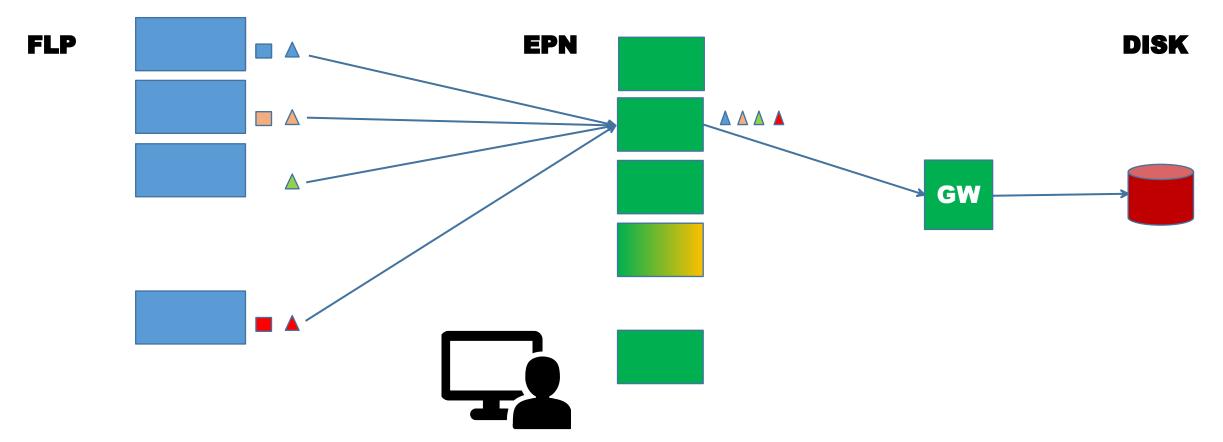




- How to make sw available
 - · e.g. STFbuilder to be deplyed on FLP
- How to control FLP and EPN
 - First level of integration (2-click start of run)
- Initial STF-> TF validation
 - Gvozden presentation https://indico.cern.ch/event/751222/contributions/3650477/attachments/1952963/3242786/2019-11-28 TB DataDist.pdf
- Stability/monkey testing
- CCDB multicast
- TFs to disks (test CC connectivity + EOSO2)

- How to make EPN application info available
 - e.g. #TF/s
- How to control FLP and EPN
 - Stability, performance (start/stop)
 - All processes (notably QC, CCDB proxies?)





- Reading a couple of FLPs with real detectors behind
 - e.g. STFbuilder to go on FLP
 - Detector people starting and stopping runs
 - Detector people using (enable/modify) QCs
- EPN data processing
 - Select given executable and run it
 - Against which data?
 - Cost-benefit analysis
- EPN -node prototypes could be hosted in the EPN
 - If needed

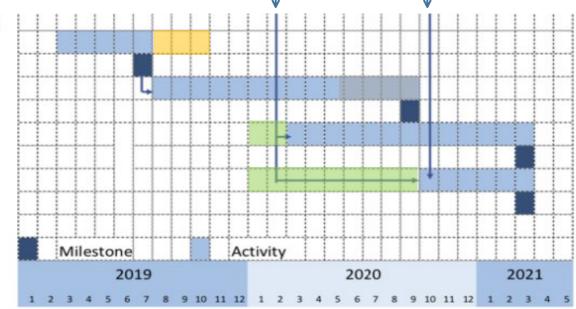
- Reading a couple of FLPs and <u>read</u> the assembled TF on EPN
 - · Precursor of the global commissioning
 - · Selective disk writing (and deletion...) assuming useful for commissioning
- What about surface installation?
 - TPC and ITS?
 - At this stage, unclear to me

Individual (all) detectors commissioning finalised
Disk storage commissioned
EPN commissioned

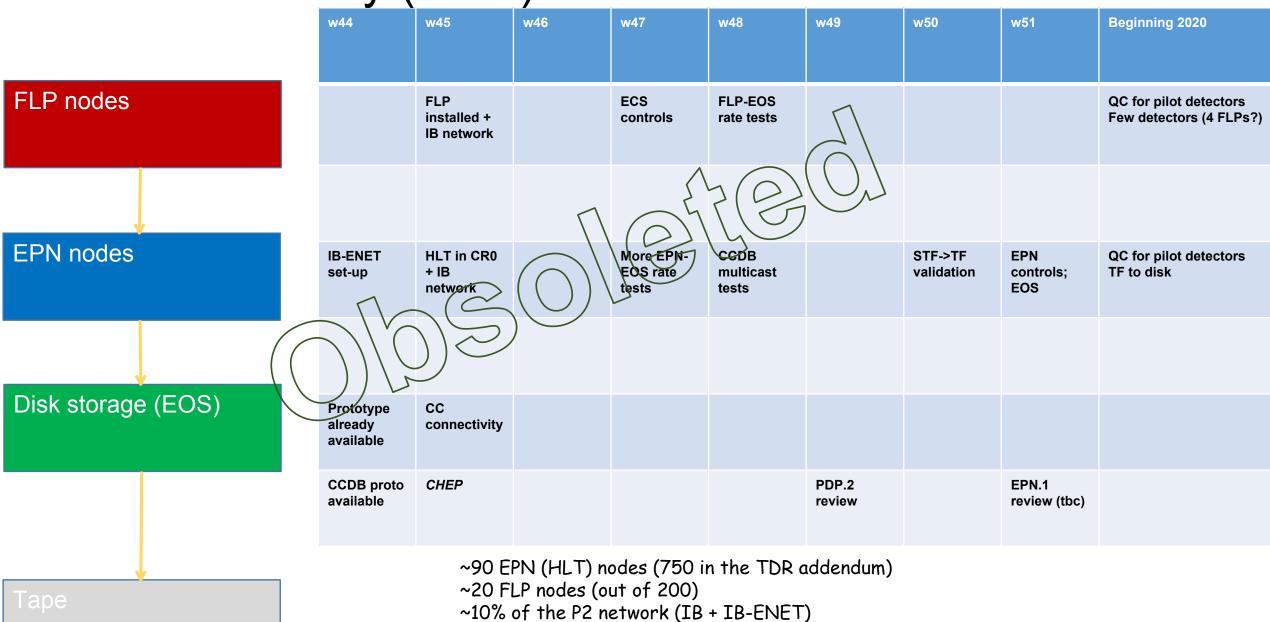
Reco and Calibration software ready	

End date

	Global	
31	Vertical slice test system preparation	
32 O2.1	Vertical slice test system ready	Jul.19
33	Vertical slice test (with dummy data)	
34 O2.2	Vertical slice test (with dummy data) finished	Sep.20
35	Vertical slice test (simulated data)	
36 O2.3	Vertical slice test (simulated data) finished	Mar.21
37	O2 global commissioning (all detectors)	
38 O2.4	O2 global commissioning (all detectors) finished	Mar.21



Vertical-slice only (O2.2)



~10% of the storage

~10% of direct connectivity (P2->CC)

Discussion