

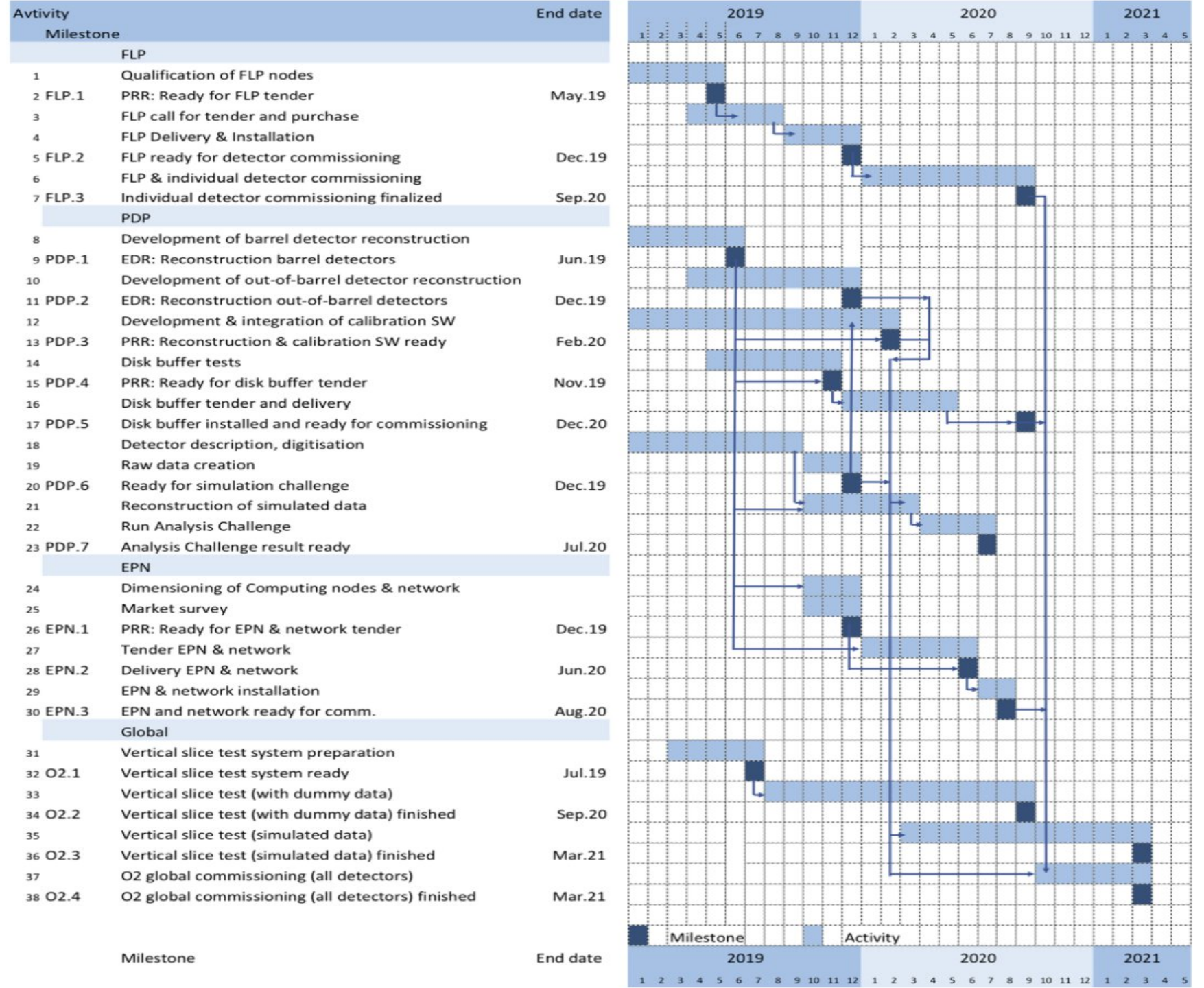
Vertical-Slice Tests

Massimo Lamanna

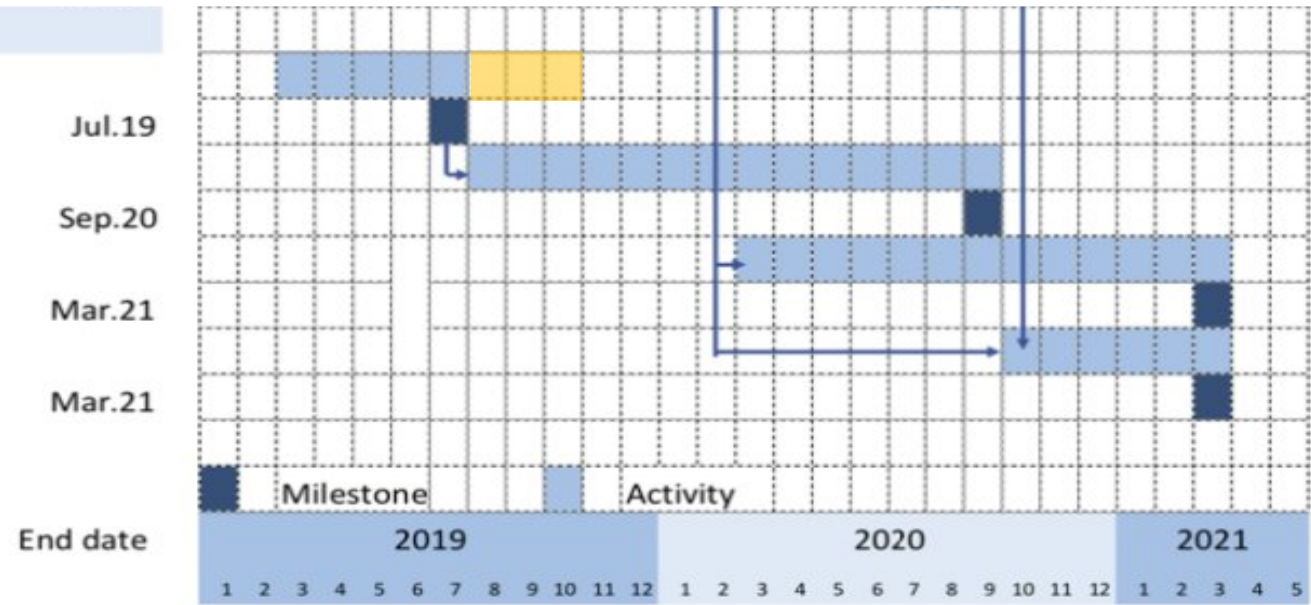
Content

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

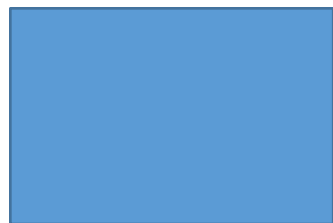
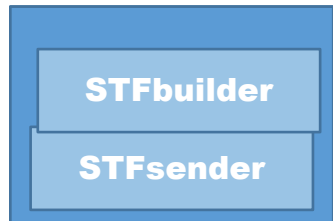
O2 milestones (see next pages)



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

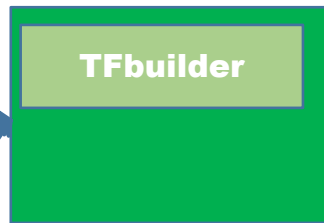


FLP



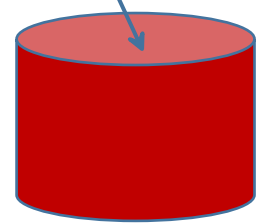
~20 nodes

EPN



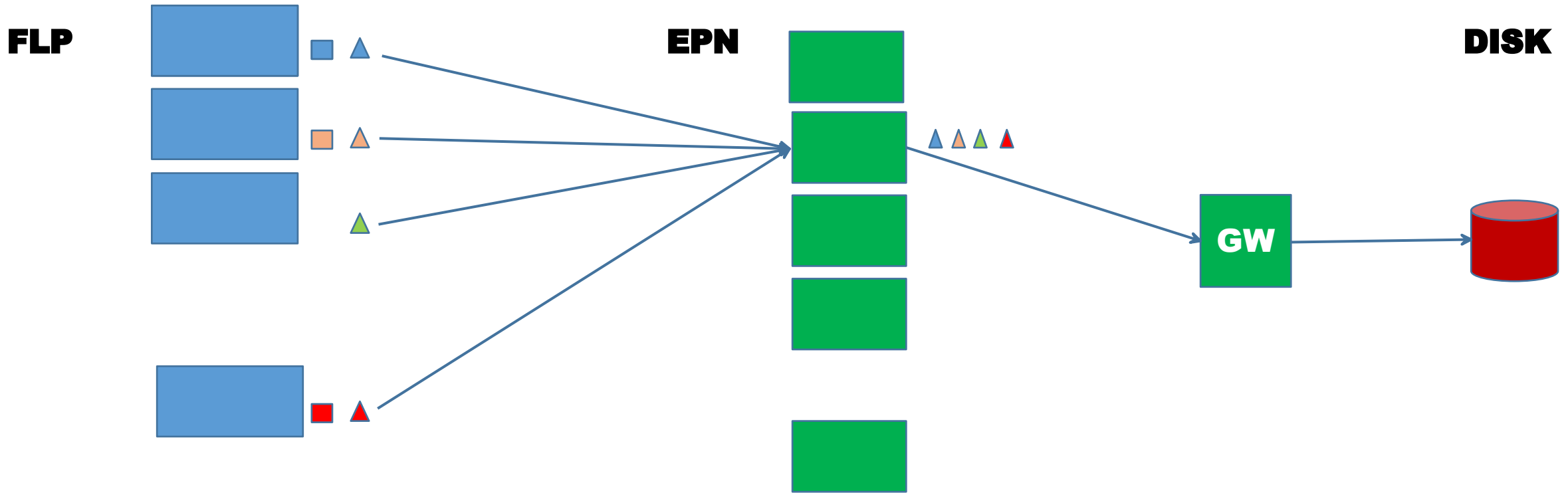
~90 nodes

DISK



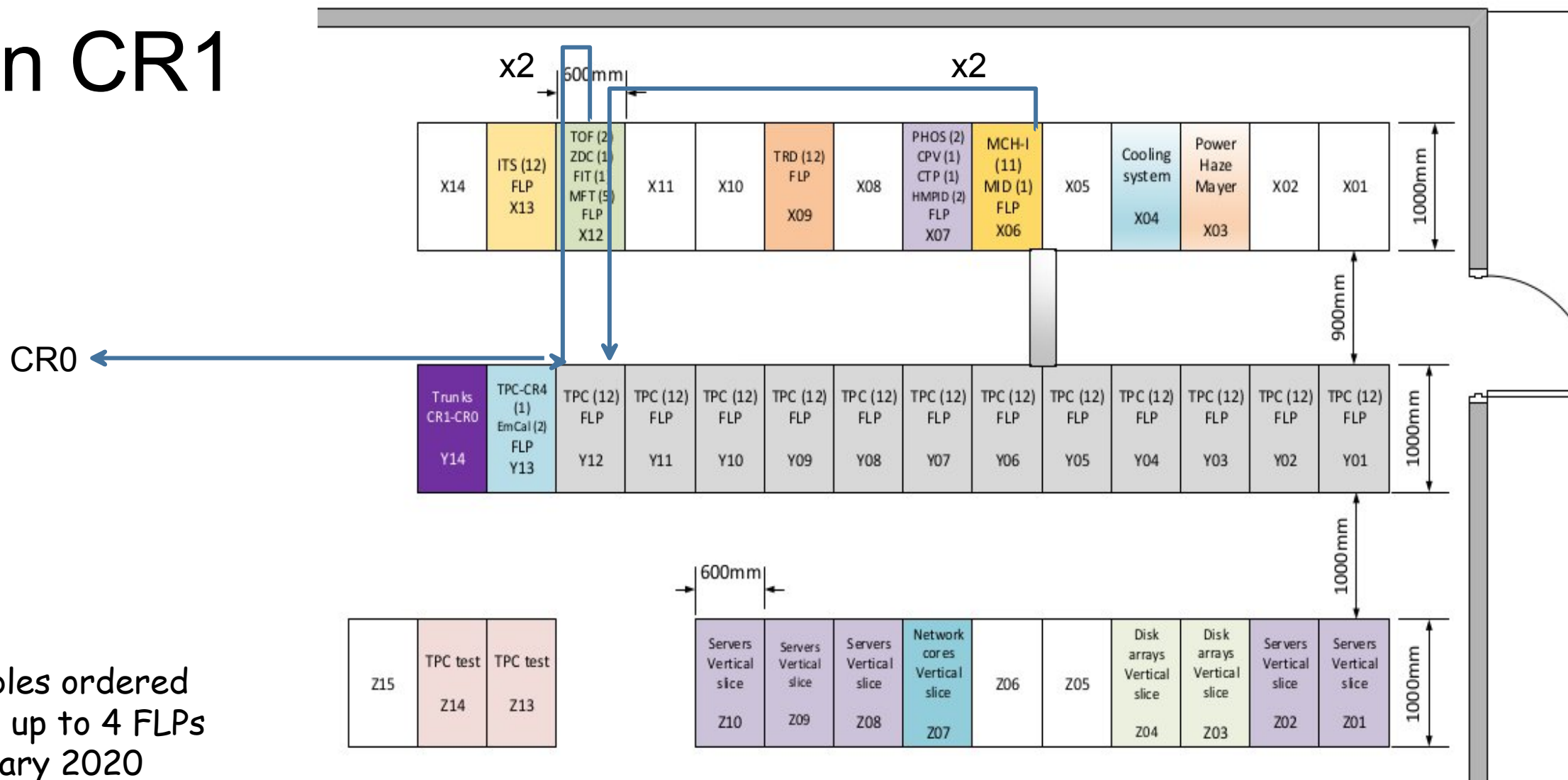
~5PB



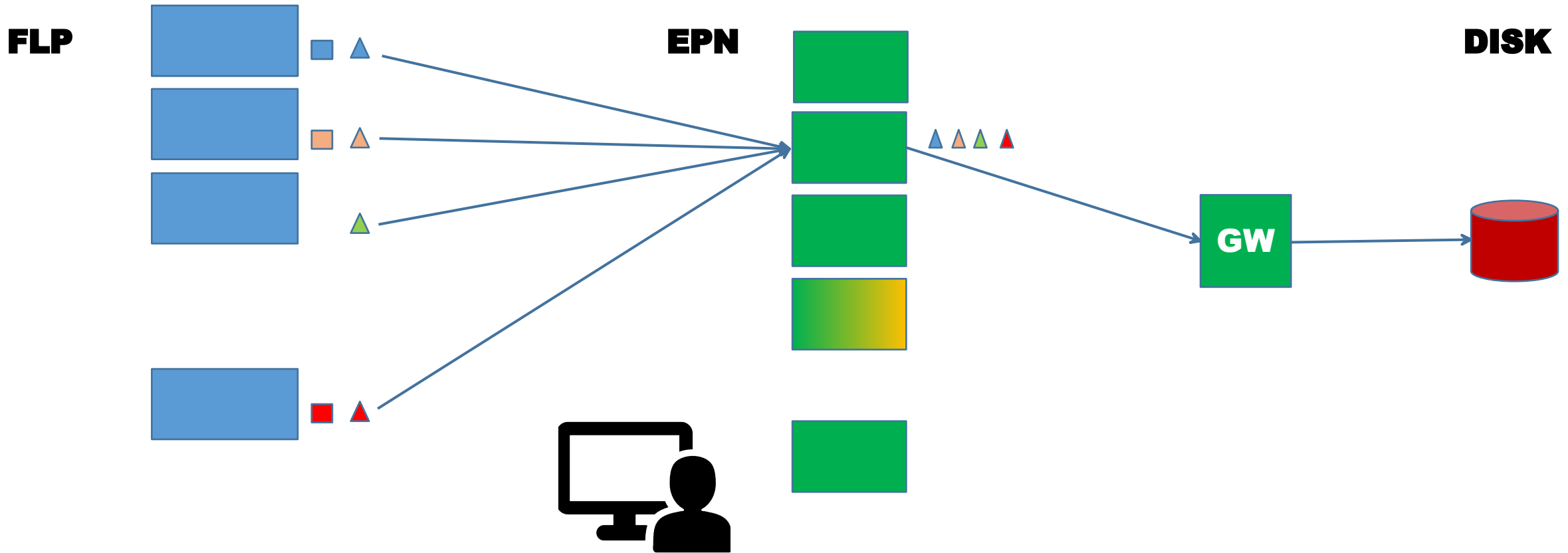


- How to make sw available
 - e.g. STFbuilder to be deployed on FLP
- How to control FLP and EPN
 - First level of integration (2-click start of run)
- Initial STF-> TF validation
 - Gvozden presentation
https://indico.cern.ch/event/751222/contributions/3650477/attachments/1952963/3242786/2019-11-28_TB_DataDist.pdf
- 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?)

VS in CR1



2 15-m cables ordered to connect up to 4 FLPs
EAT: January 2020



- 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 read the assembled TF on EPN

- Precursor of the global commissioning
- Selective disk writing (and deletion...) assuming useful for commissioning

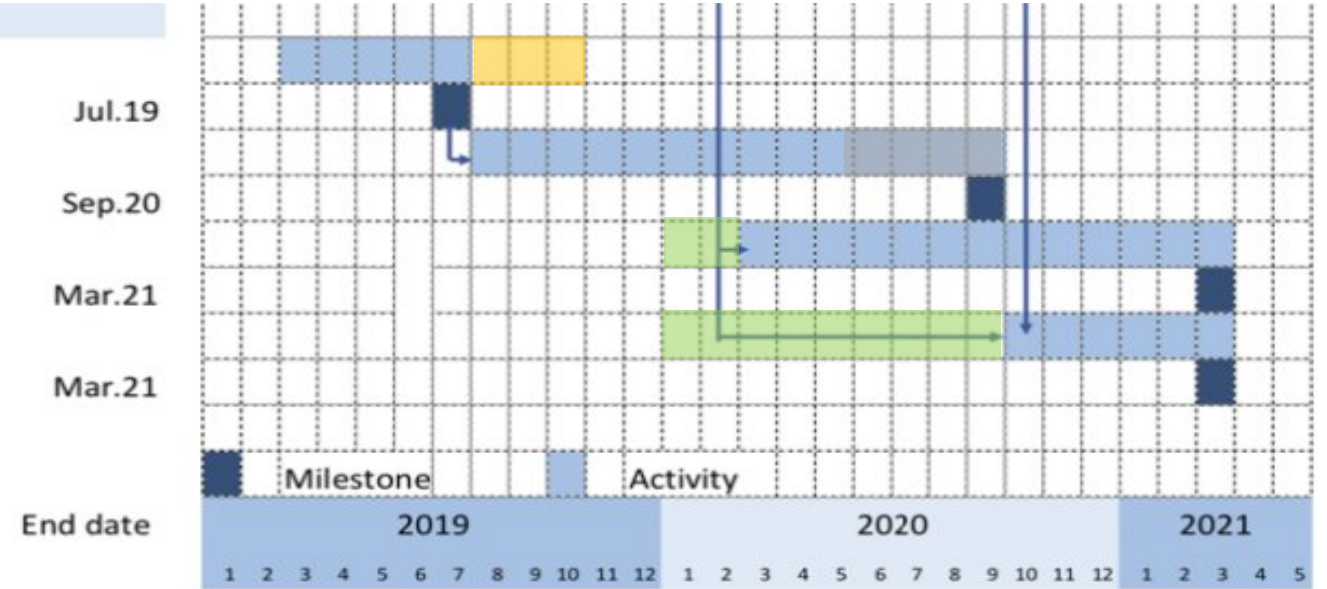
- What about surface installation?

- TPC and ITS?
- At this stage, unclear to me

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

Reco and Calibration software ready

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



Vertical-slice only (O2.2)

FLP nodes

EPN nodes

Disk storage (EOS)

Tape

w44	w45	w46	w47	w48	w49	w50	w51	Beginning 2020
	FLP installed + IB network		ECS controls	FLP-EOS rate tests				QC for pilot detectors Few detectors (4 FLPs?)
IB-ENET set-up	HLT in CR0 + IB network		More EPN-EOS rate tests	CCDB multicast tests		STF->TF validation	EPN controls; EOS	QC for pilot detectors TF to disk
Prototype already available	CC connectivity							
CCDB proto available	CHEP				PDP.2 review		EPN.1 review (tbc)	

ObsOleated

- ~90 EPN (HLT) nodes (750 in the TDR addendum)
- ~20 FLP nodes (out of 200)
- ~10% of the P2 network (IB + IB-ENET)
- ~10% of the storage
- ~10% of direct connectivity (P2->CC)

Discussion