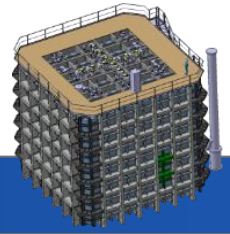
Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

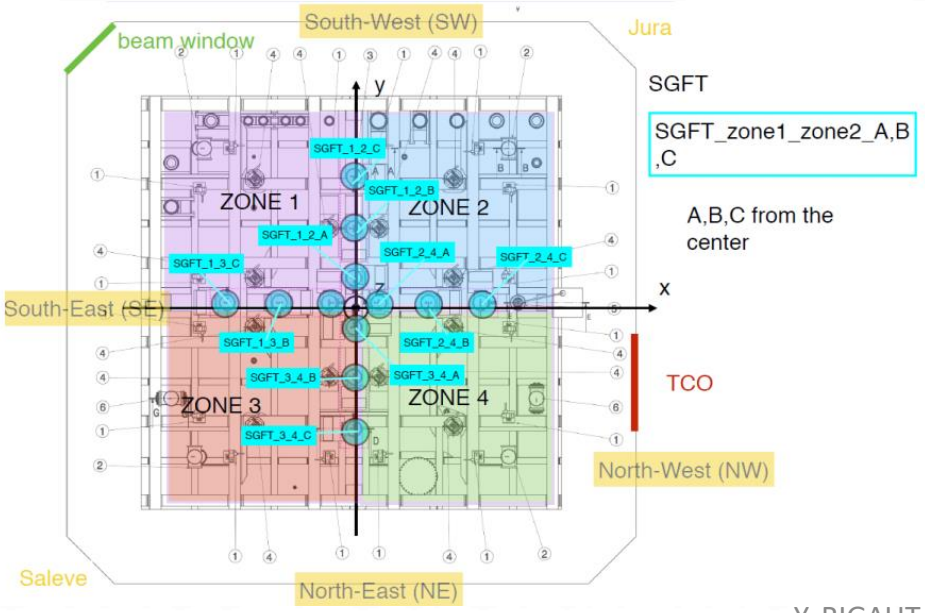
Update on racks and external cabling

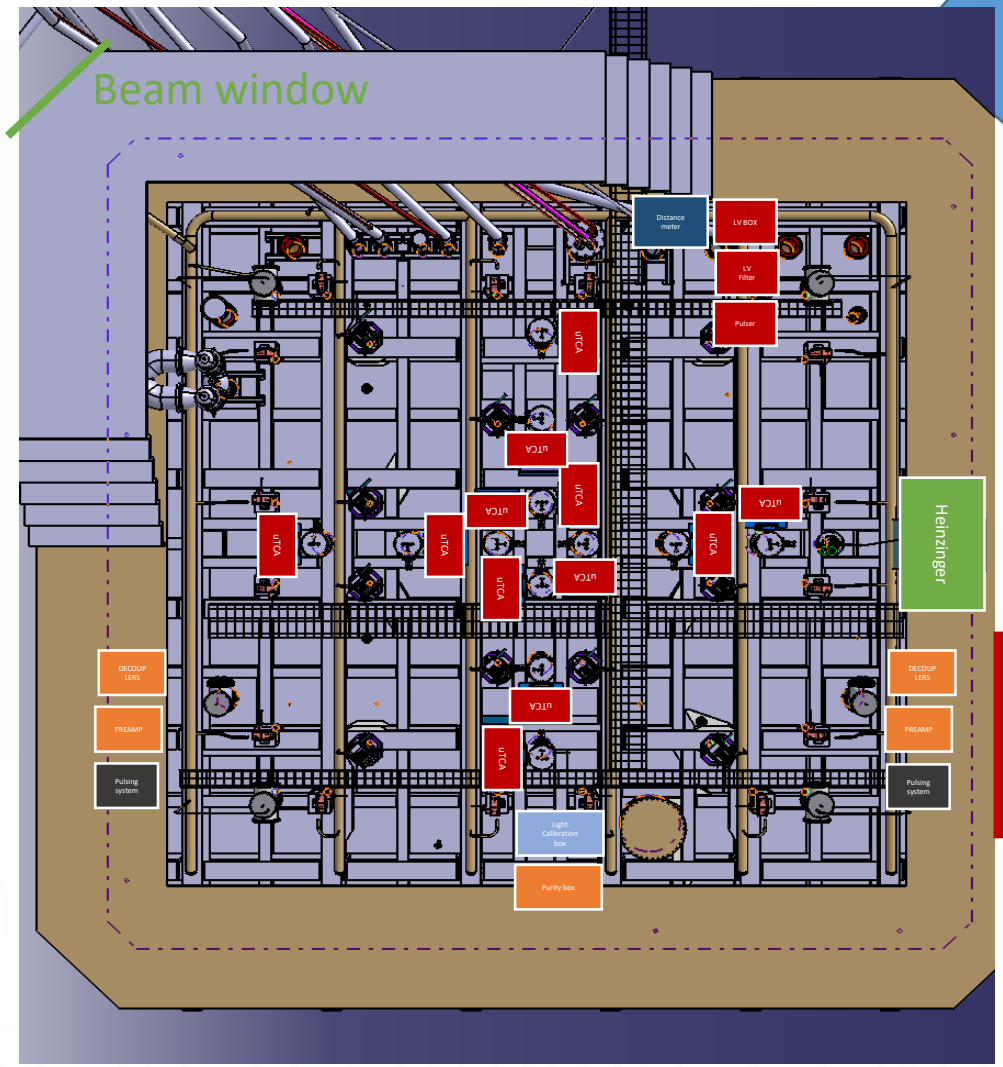
Y. RIGAUT on behalf of ETHZ group

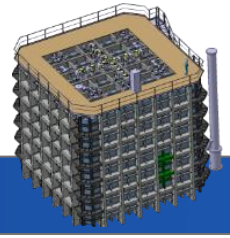


3 & 4 | BOXES/ RACKS ON ROOF

All the integration on the roof is almost done thanks to everybody, so next step is to finalize last system and see if integration is possible.

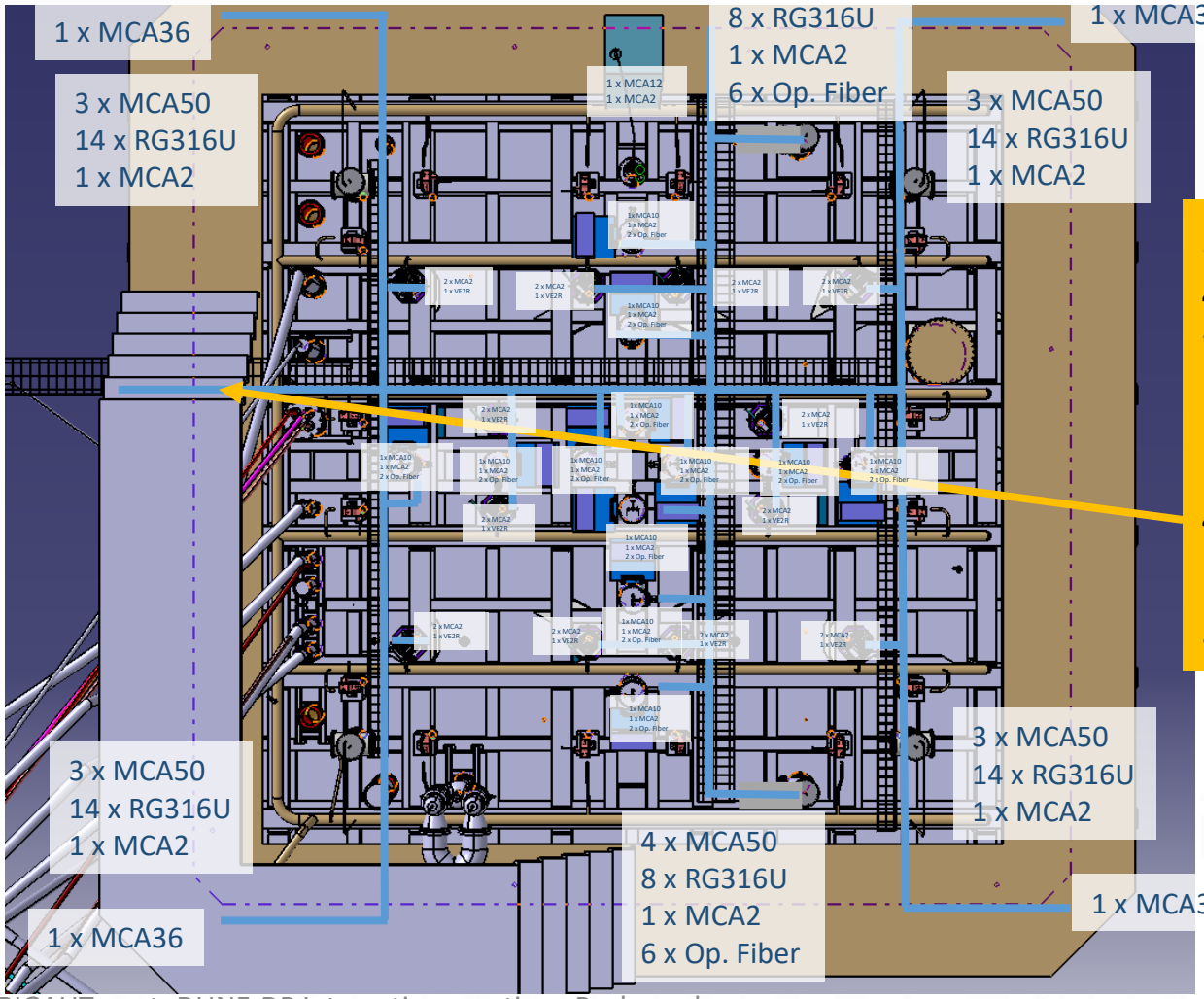


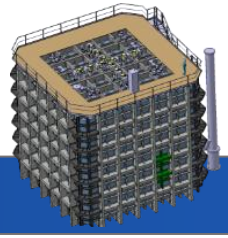




3 & 4 | SIGNAL DISTRIBUTION ON ROOF

Cable tray 400mm prototyping (without optical fibers).



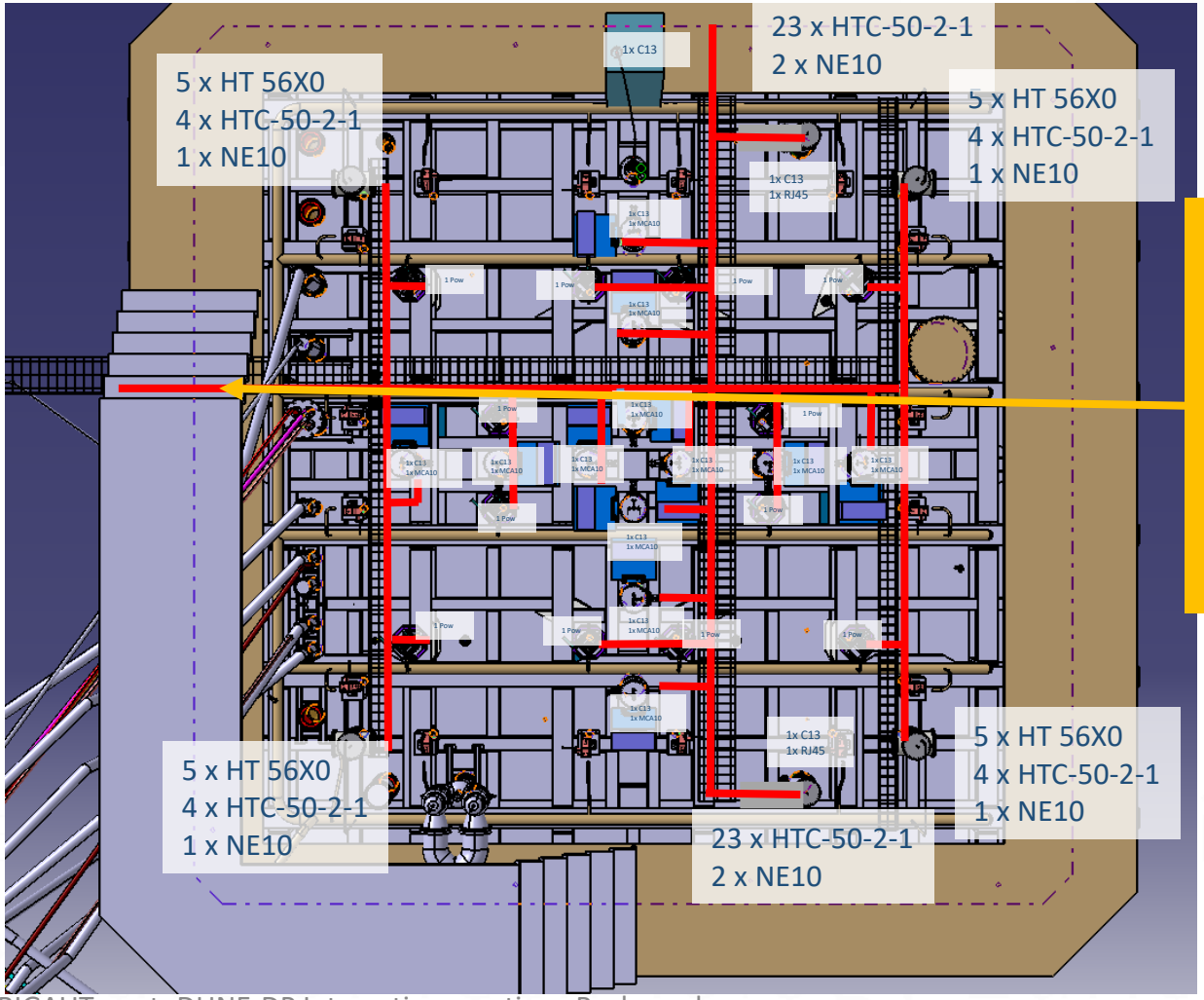


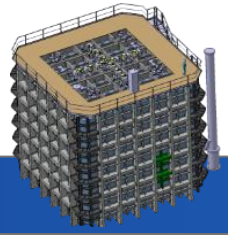
3 & 4 | POWER DISTRIBUTION ON ROOF

PROTO in progress

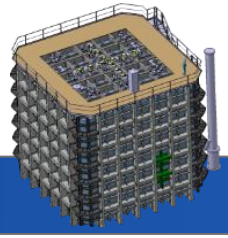
Cable tray 400mm prototyping (without power plug/Purity monitor/Calibration Light readout).

PROTO in progress

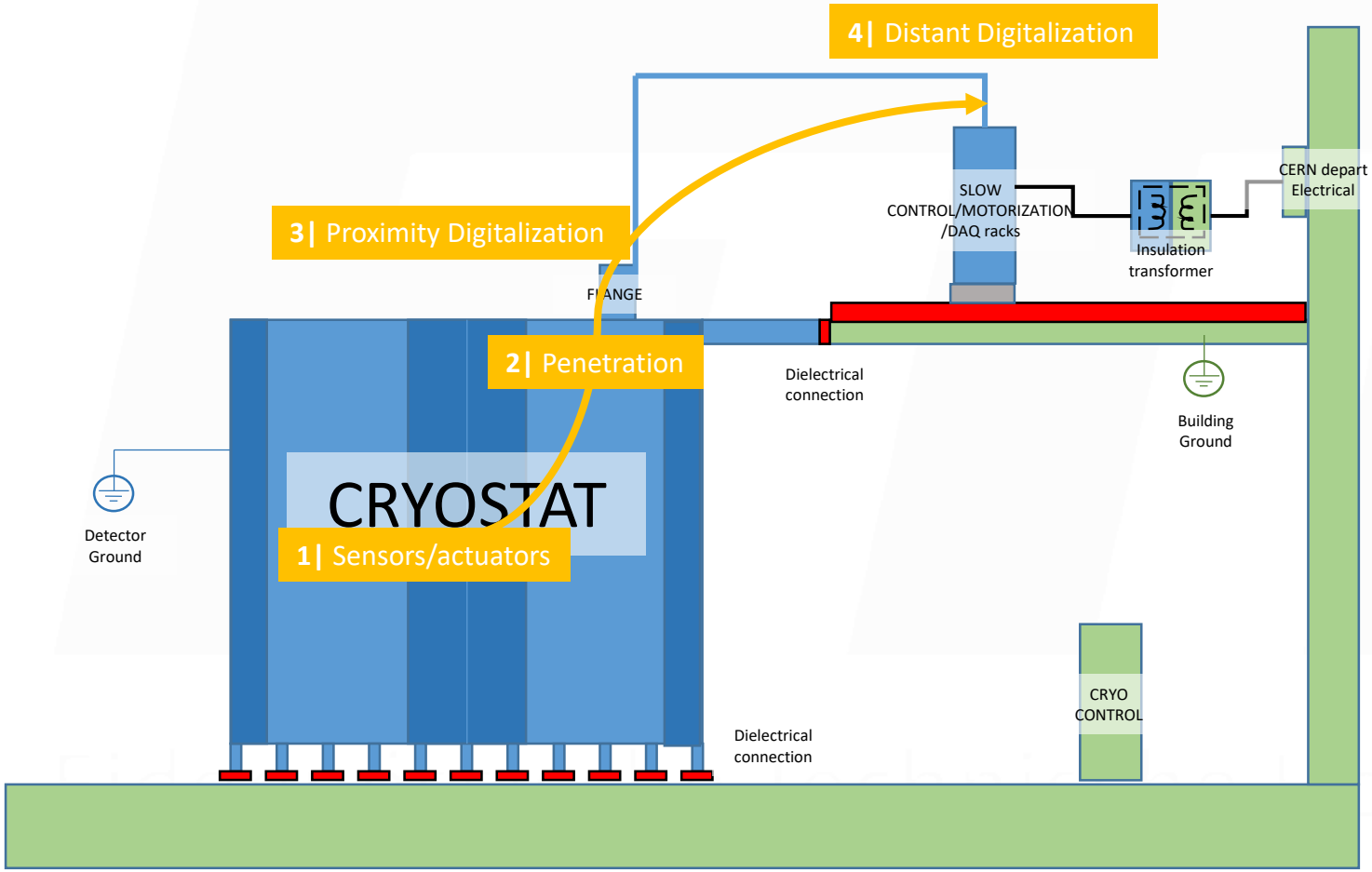


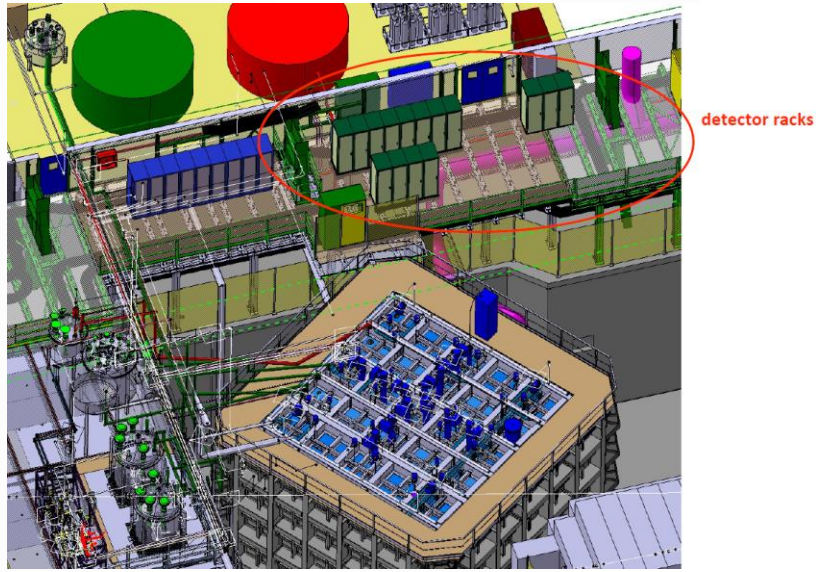


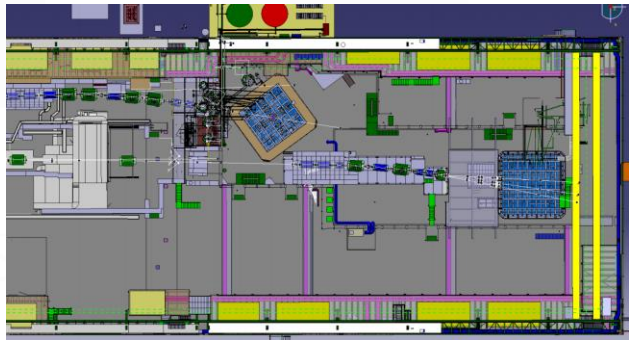
Racks position

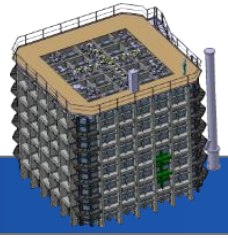


GENERAL VIEW OF PROTODUNE DP

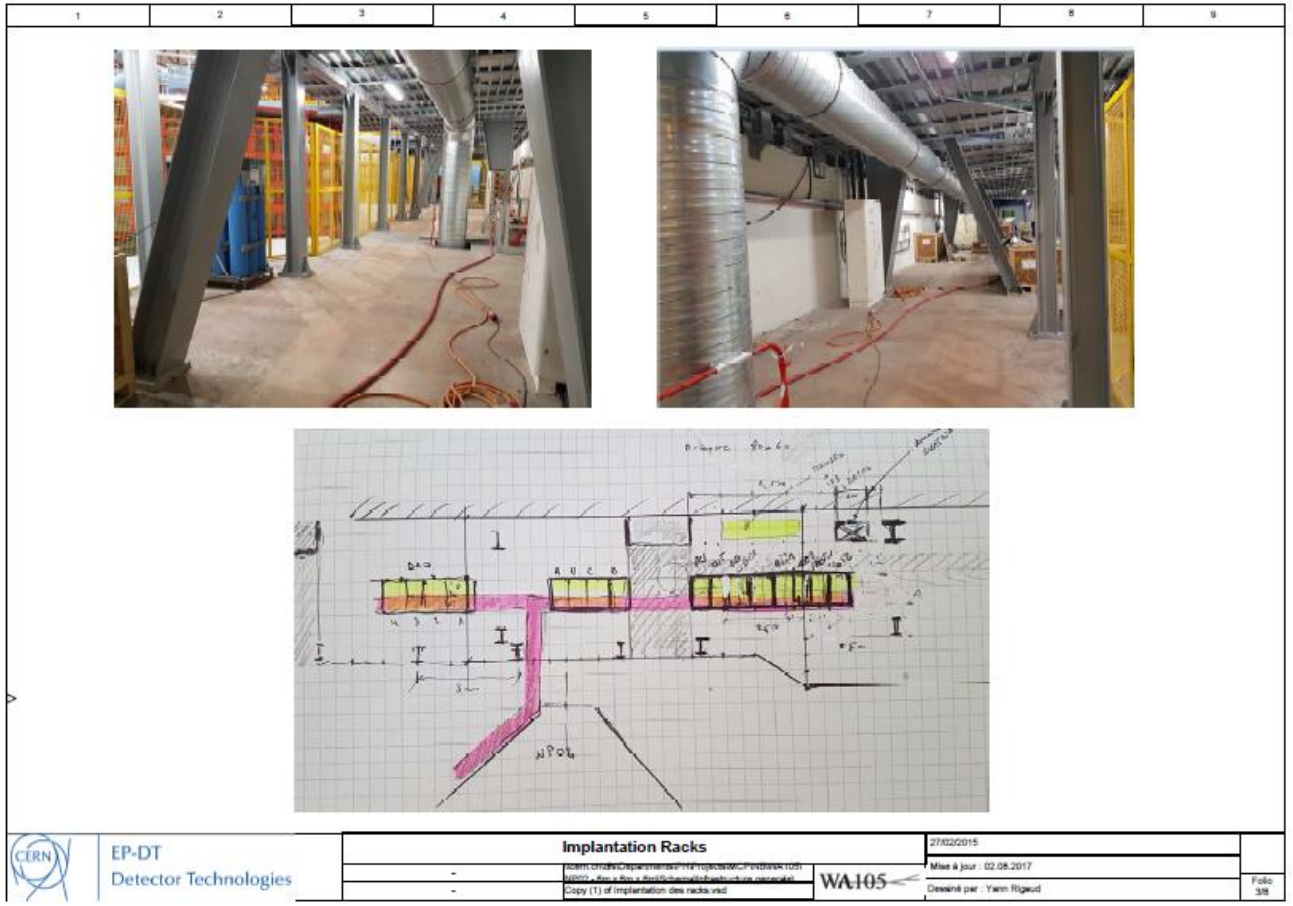


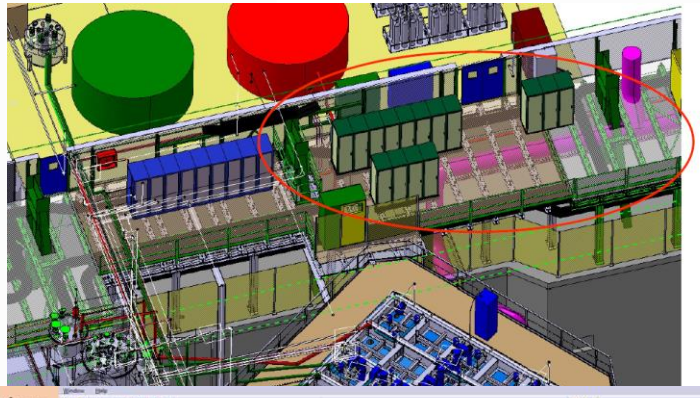


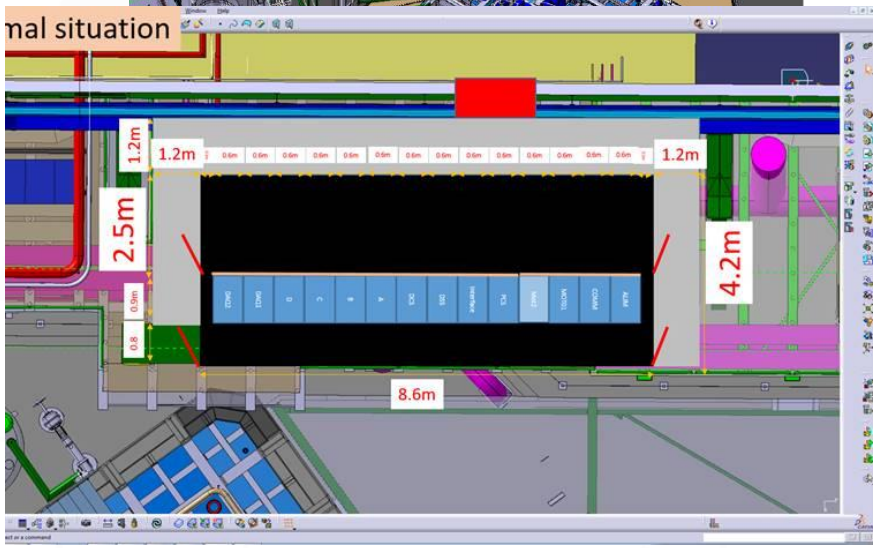


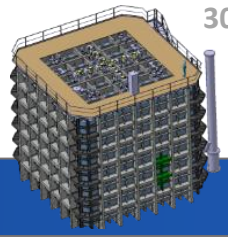


Racks position









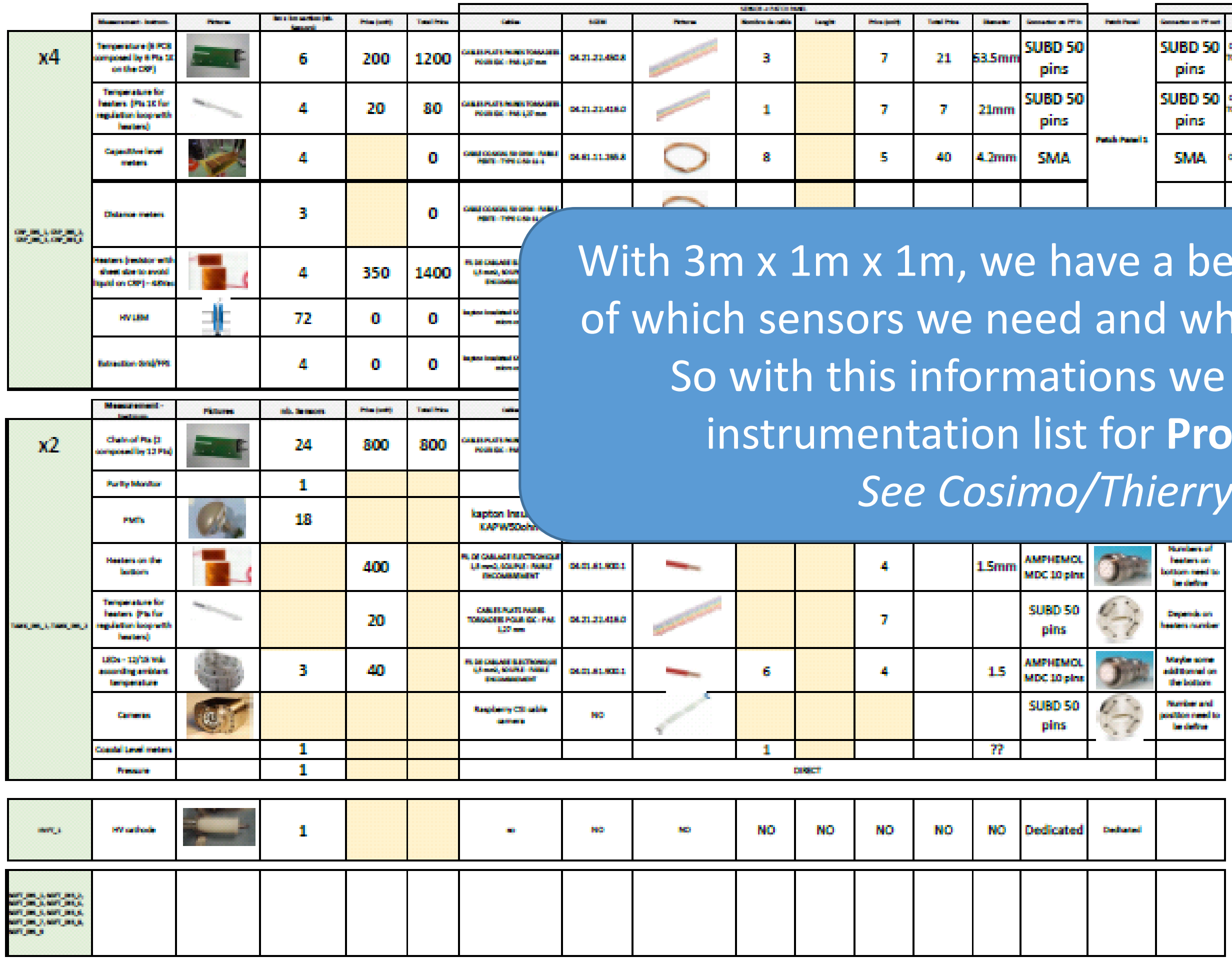
Back up slides…

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

EP-DT
Detector Technologies

WA105

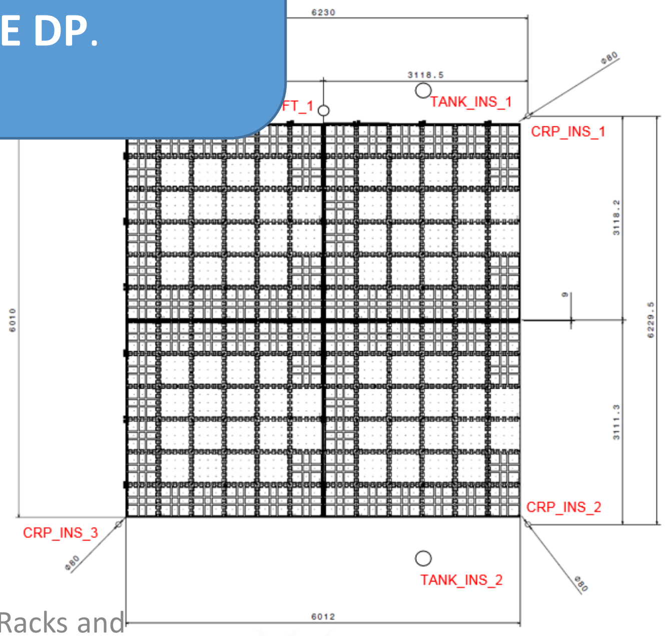
1| SENSORS/ACTUATORS

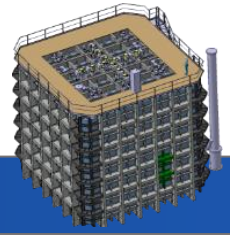


	Measurement	Pictures	No. sensors	Price (unit)	Total Price	Cables	SCEM	Pictures	No. cables	Length	Price (unit)	Total Price	Diameter	Connector	Patch Panel	Connector	Cables	SCEM	Pictures	No. cables	Length	Price (unit)	Total Price	Diameter	Flanges	Pictures	Comment
x4	[illegible]		6	200	1200	[illegible]	[illegible]		3		7	21	63.5mm	SUBD 50 pins		SUBD 50 pins	[illegible]	[illegible]		3		7	0	63.5mm	SUBD 50 pins		
	[illegible]		4	20	80	[illegible]	[illegible]		1		7	7	21mm	SUBD 50 pins		SUBD 50 pins	[illegible]	[illegible]		1		7	0	21mm	SUBD 50 pins		
	[illegible]		4		0	[illegible]	[illegible]		8		5	40	4.2mm	SMA	[illegible]	SMA	[illegible]	[illegible]		8		5	0	4.2mm	SMA		
	[illegible]		3		0	[illegible]																	0	4.2mm	SMA		
	[illegible]		4	350	1400	[illegible]																	0	1.5mm	AMPHENOL MDC 10 pins		
	HV LEM		72	0	0	[illegible]																	0	2.1mm	SHV		
	[illegible]		4	0	0	[illegible]																	0	3.2mm	BNC		

	Measurement	Pictures	No. sensors	Price (unit)	Total Price	Cables	SCEM	Pictures	No. cables	Length	Price (unit)	Total Price	Diameter	Connector	Patch Panel	Comment
x2	[illegible]		24	800	800	[illegible]										
	Purity Monitor		1													
	PMTs		18			kapton Insu... KAPW50ohm										
	Heaters on the bottom			400		[illegible]	[illegible]				4		1.5mm	AMPHENOL MDC 10 pins		[illegible]
	[illegible]			20		[illegible]	[illegible]				7			SUBD 50 pins		[illegible]
	[illegible]		3	40		[illegible]	[illegible]		6		4		1.5	AMPHENOL MDC 10 pins		[illegible]
	Cameras					[illegible]	NO							SUBD 50 pins		[illegible]
	Coaxial Level meters		1						1				??			
	Pressure		1			DIRECT										
[illegible]	HV cathode		1			-	NO	NO	NO	NO	NO	NO	NO	Dedicated	Dedicated	

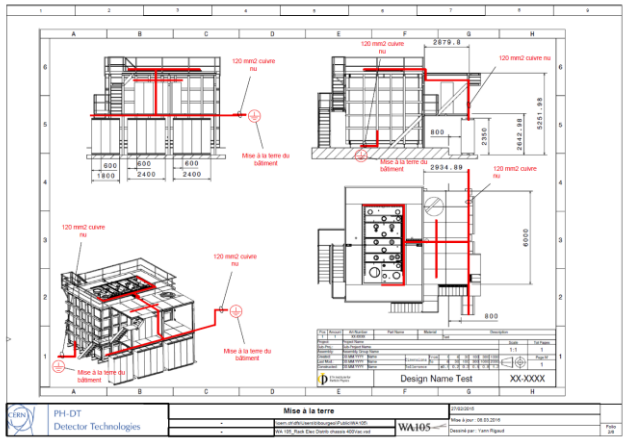
With 3m x 1m x 1m, we have a better understanding of which sensors we need and where to place them. So with this informations we have built the instrumentation list for **ProtoDUNE DP**.
See Cosimo/Thierry talk

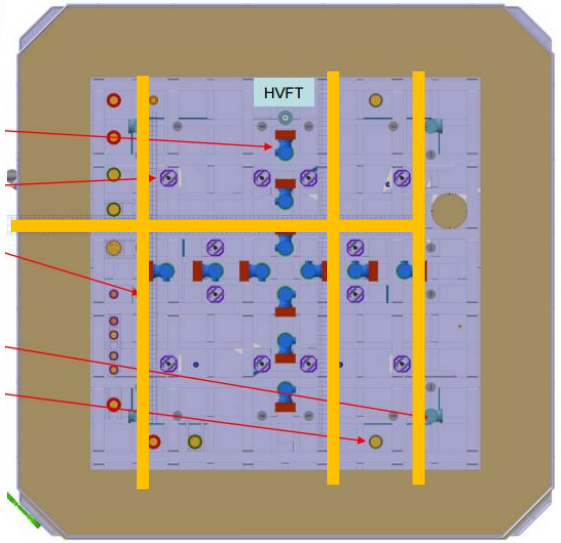


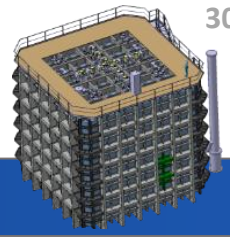


3 & 4 | GND ON ROOF

Simple drawing for copper plates implementation used for GND.







POWER DISTRIBUBUTION (SIMPLE VERSION)