

Stato XPR

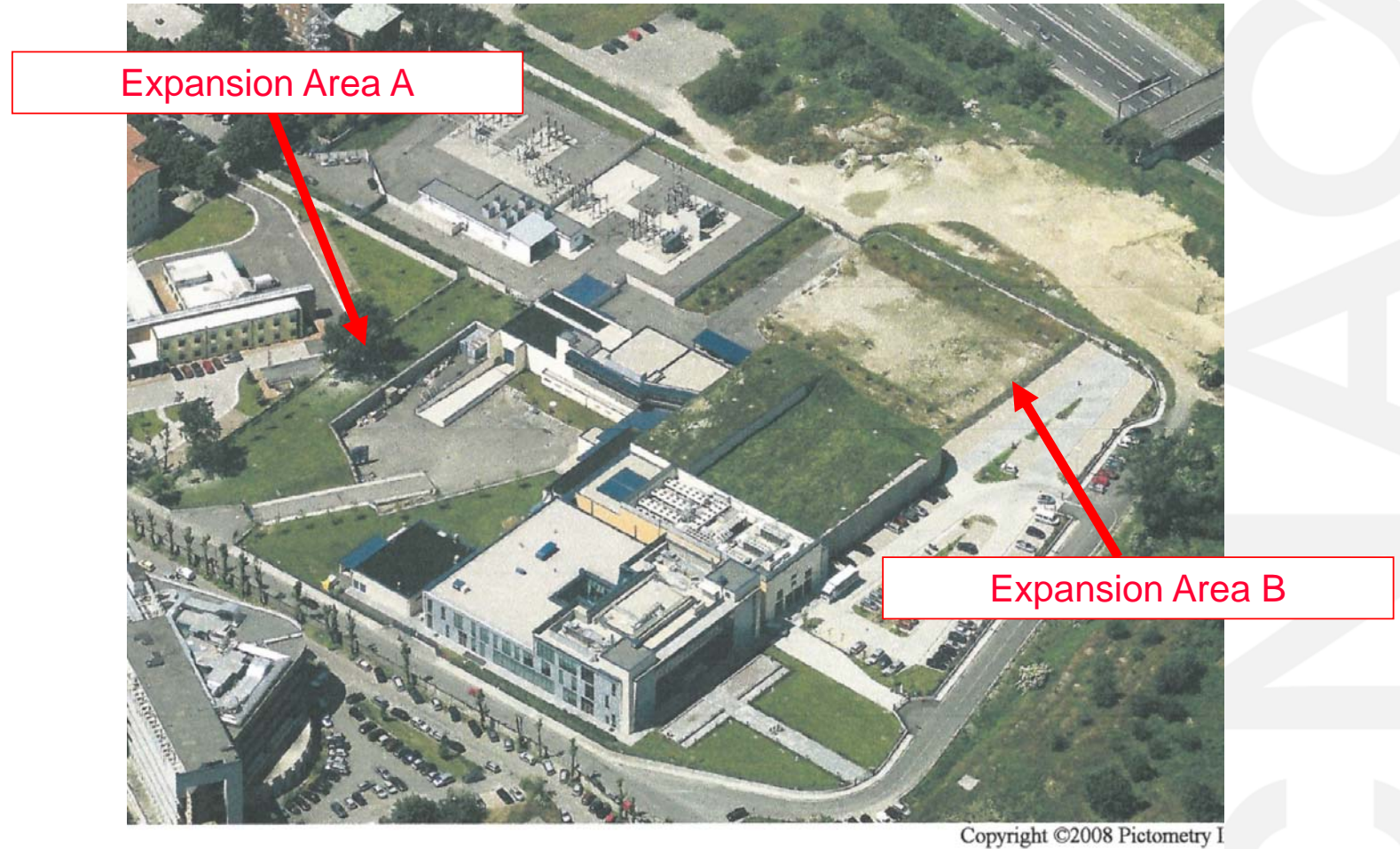
Marco Pullia

12/06/2020

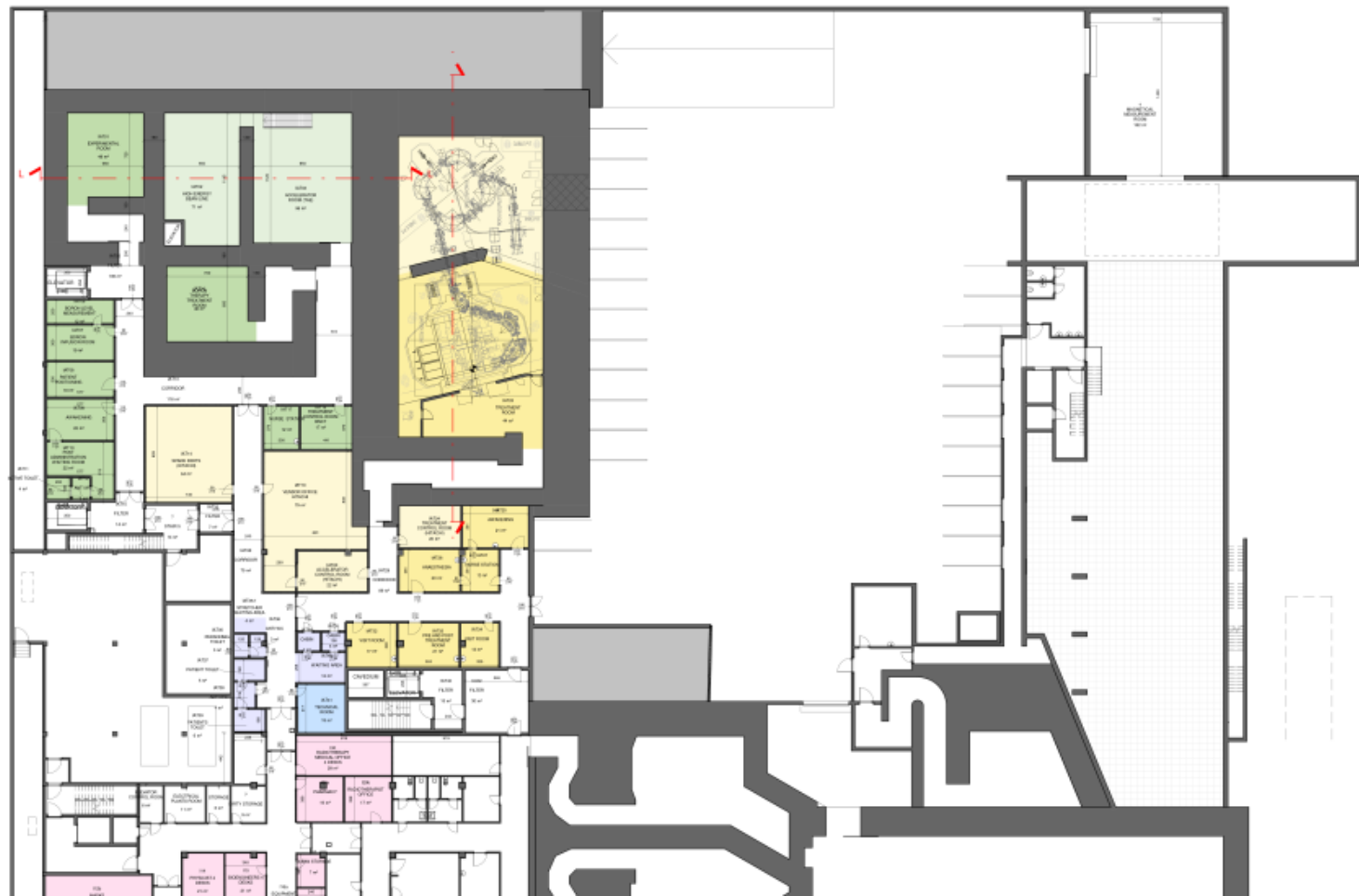
Foot Meeting, June 12th 2020



CNAO expansion

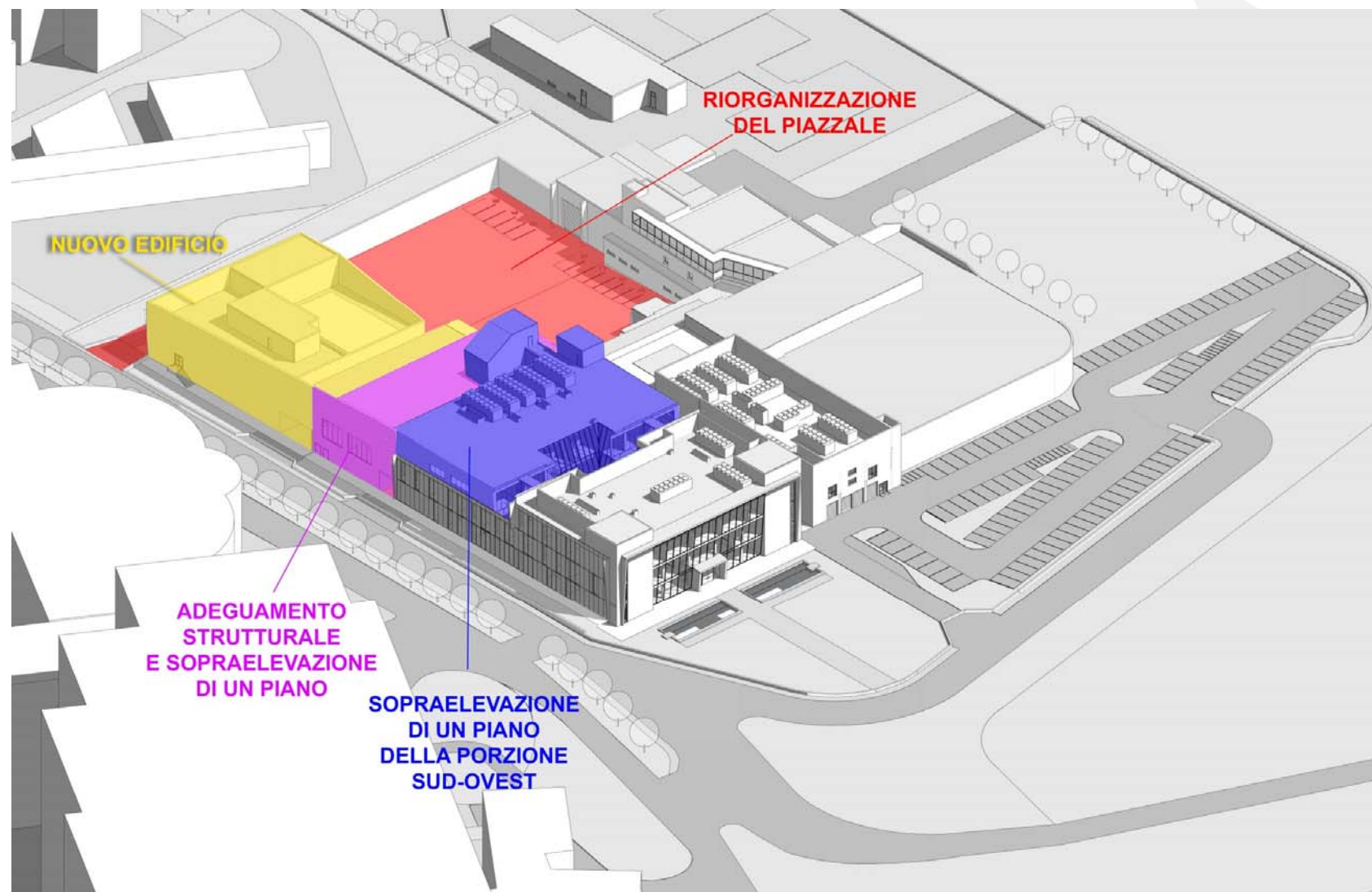


Proton therapy SRF to Hitachi
BNCT decision to be taken soon



Building design
Assigned to
Studio Calvi (dec 2019)

In progress



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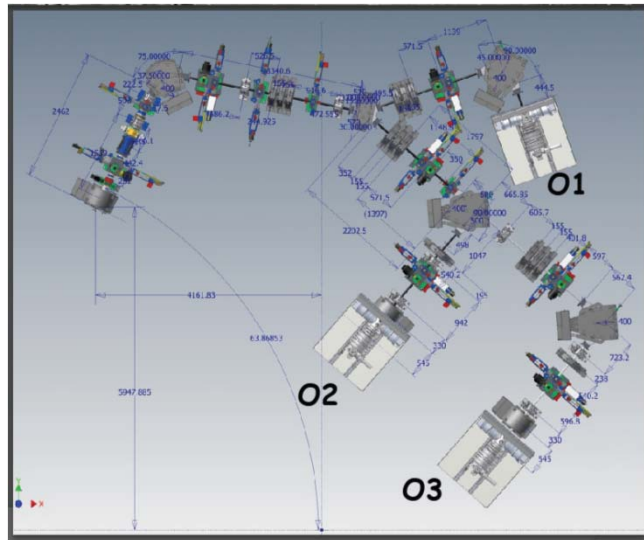
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Third Source

INFN-LNS

Expected currents



He, Li, O (and Fe)

Ion beam production (eμA)

Ion	Supernanogan (14 GHz)	AISHa (18 GHz + TFH)
H ⁺	2000	4000
H ₂ ⁺	1200	2000
H ₃ ⁺	1000	1500
³ He ⁺	800	2000
¹² C ⁴⁺	250	800
⁶ Li ²⁺ - ⁷ Li ²⁺	//	800
¹⁰ B ³⁺ - ¹¹ B ³⁺	//	600
¹⁸ O ⁶⁺	400	1000
²¹ Ne ⁷⁺	120	500
³⁶ Ar ¹²⁺	20	150

INSpIRIT

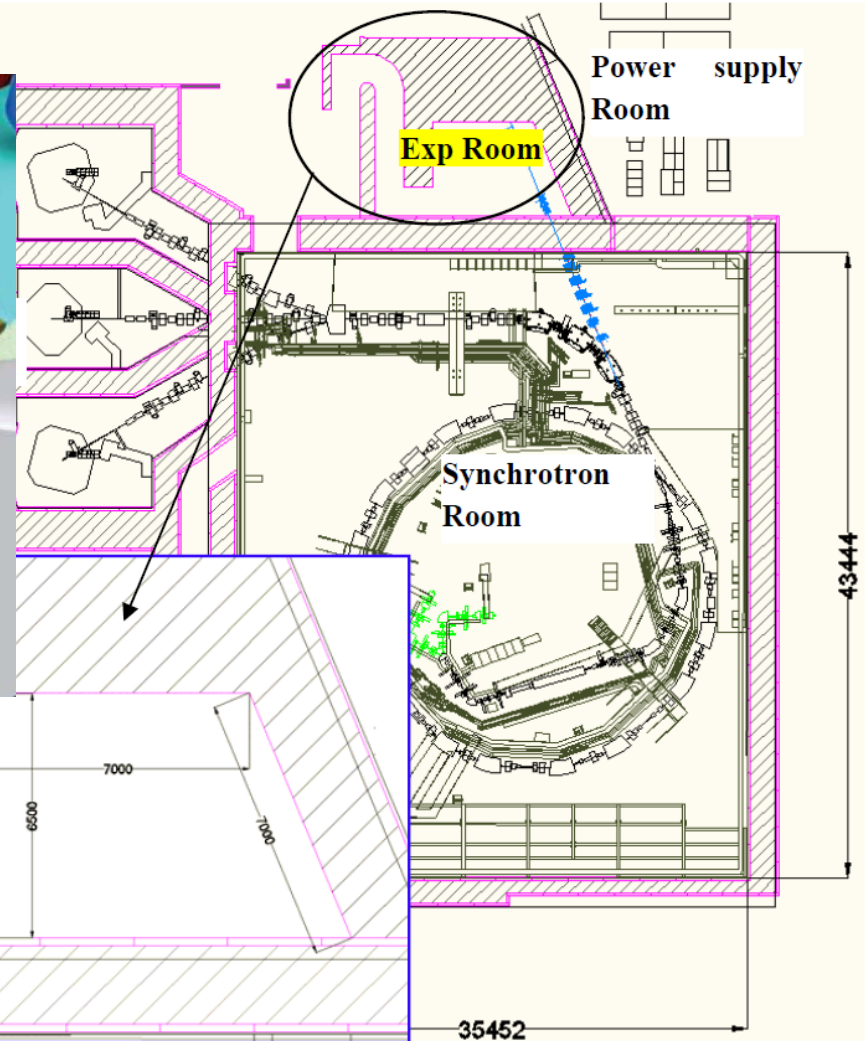
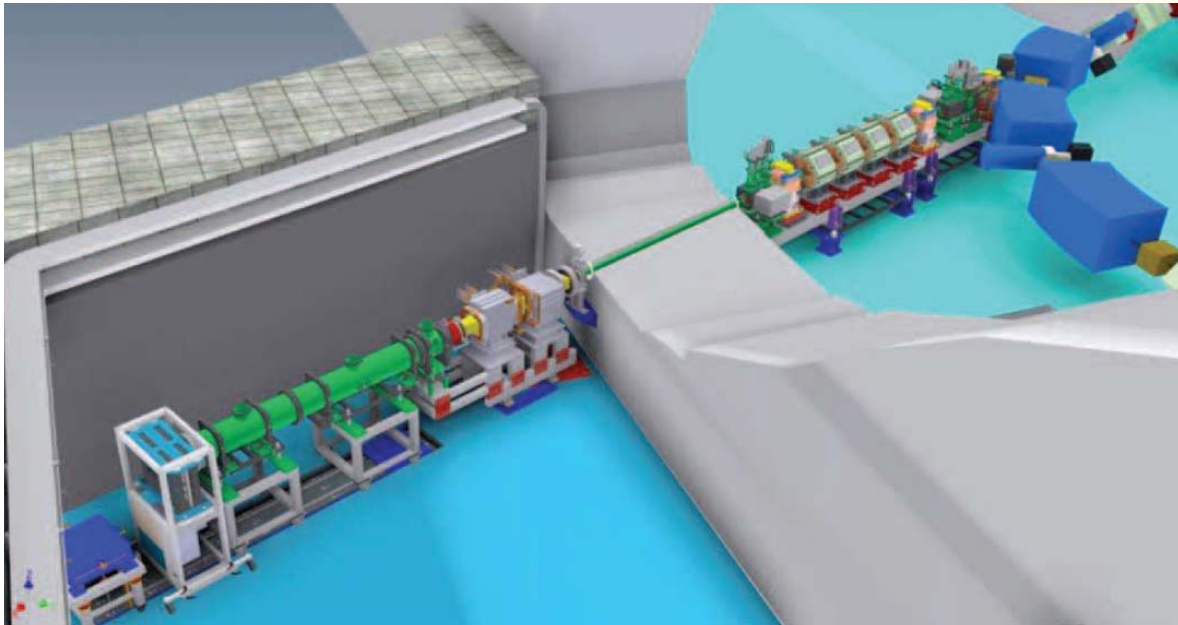
Started Feb 14th

Report di valutazione

ID progetto	1161908
Acronimo	INSpIRIT
Nome progetto	Una facility INnovativa di irraggiamento con Sorgente per Ioni per Ricerca e studi di radiation hardness con applicazioni IndusTRiali e cliniche
Durata (mesi)	30
Abstract	Gli studi sono focalizzati sullo sviluppo di approcci radioterapici innovativi, consistenti nella realizzazione di una sorgente innovativa in grado di produrre nuove specie ioniche, come ossigeno, elio e litio, che verranno accelerati dal sincrotrone, indirizzati nella sala sperimentale e resi disponibili per attività sia di ricerca che industriale.



Experimental Room



4 beamline configurations
4 irradiation positions

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Since last time

Scanning magnets operational and calibrated

DDS support on rails installed and aligned

Cable holder installed

Alignment Lasers ordered

Cabling, supports and other
Small orders in progress



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XPR Upgrade

Last Year



12/06/2020



Last week



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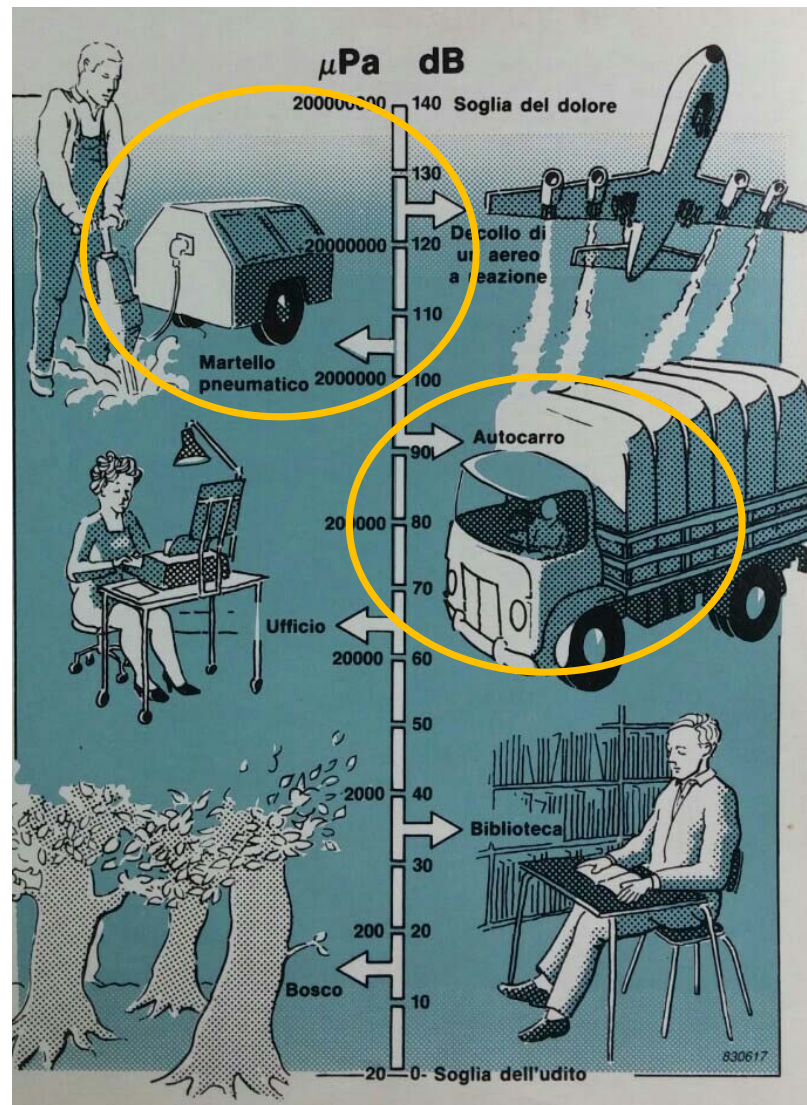


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From 105 to 84 dB
UTA still welcome...



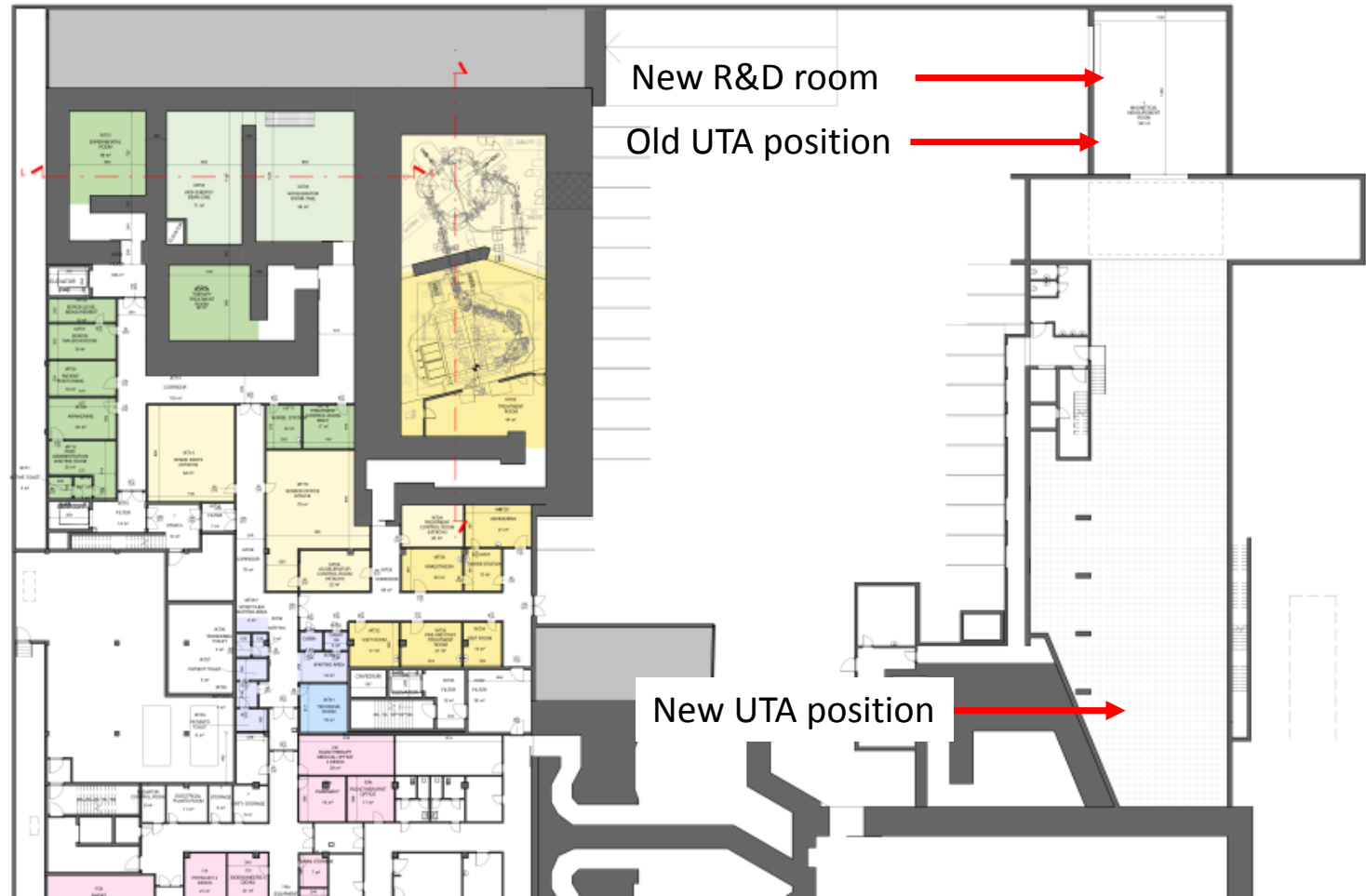
UNIVERSITÀ

UTA variant needed

No additional cost

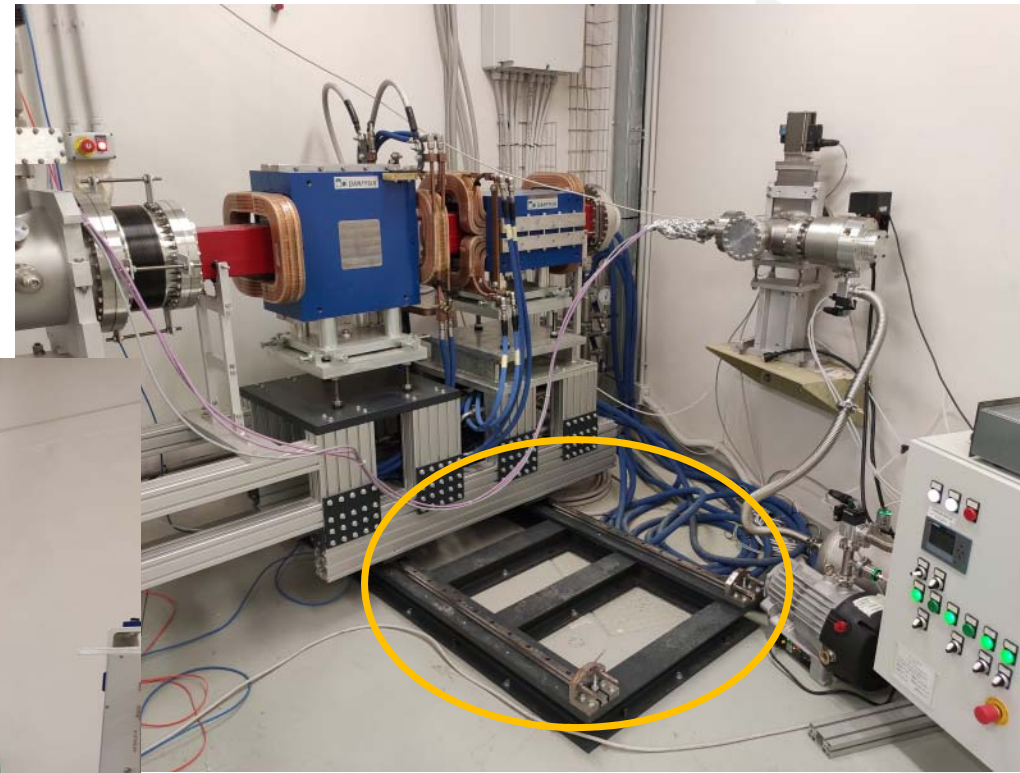
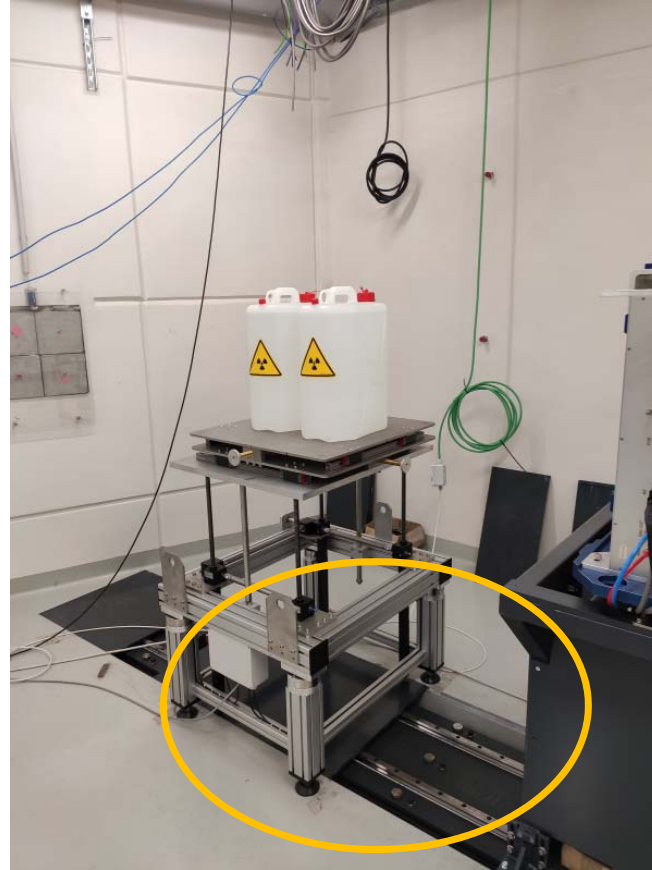
Approval in process

Procurement slowed down by coronavirus but in progress



Request for FOOTers

Please provide 3D models of the detector(s)
To check installation in XPR





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CINAC