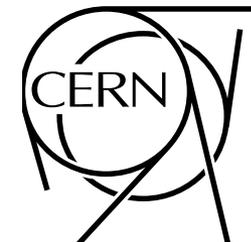


LBNF – Cold Box Interfaces & Requirements

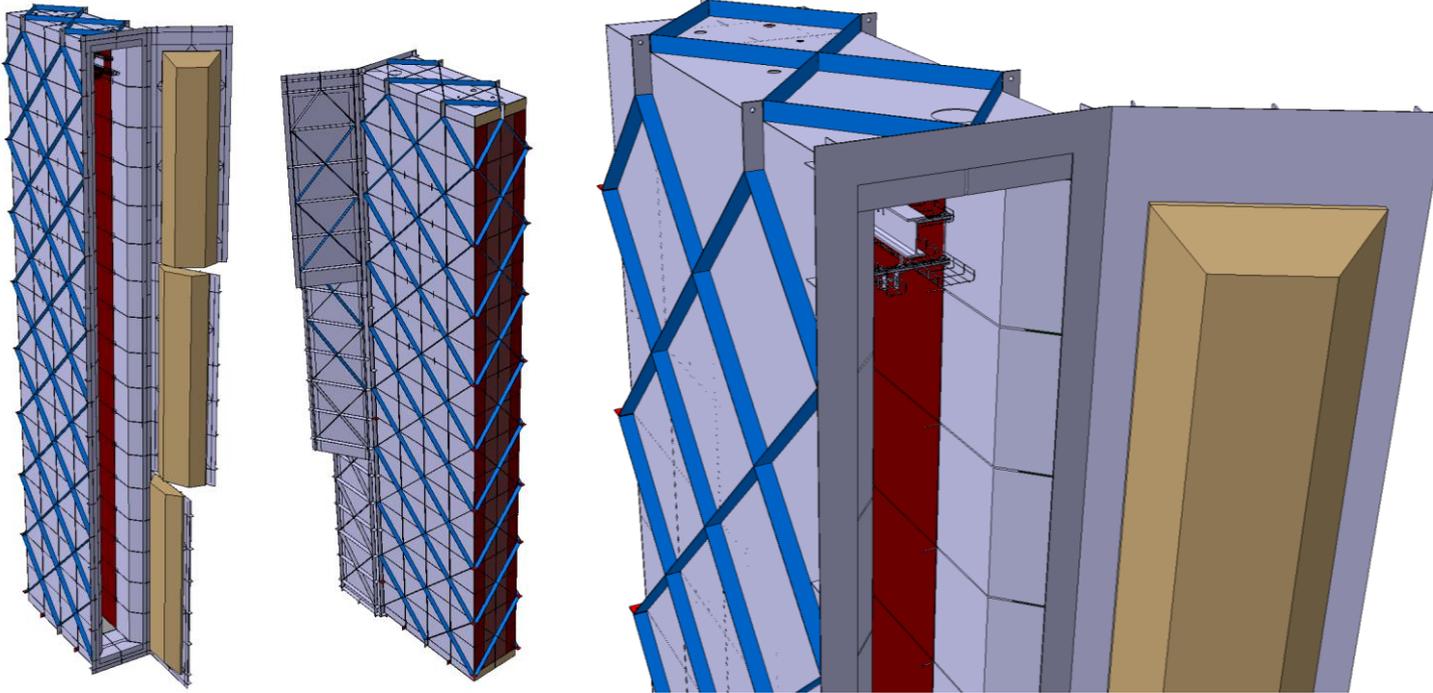
Dimitar MLADENOV & The entire CERN Team

FS Integration/Installation Planning

Kartause Ittingen, 02-04 January 2020



Current Design



Physical dimensions

11 T of Stainless Steel
+ insulation + membrane + services + ...

External Dimensions

14.0m x 3.2m x 1.3m (H x L x W)

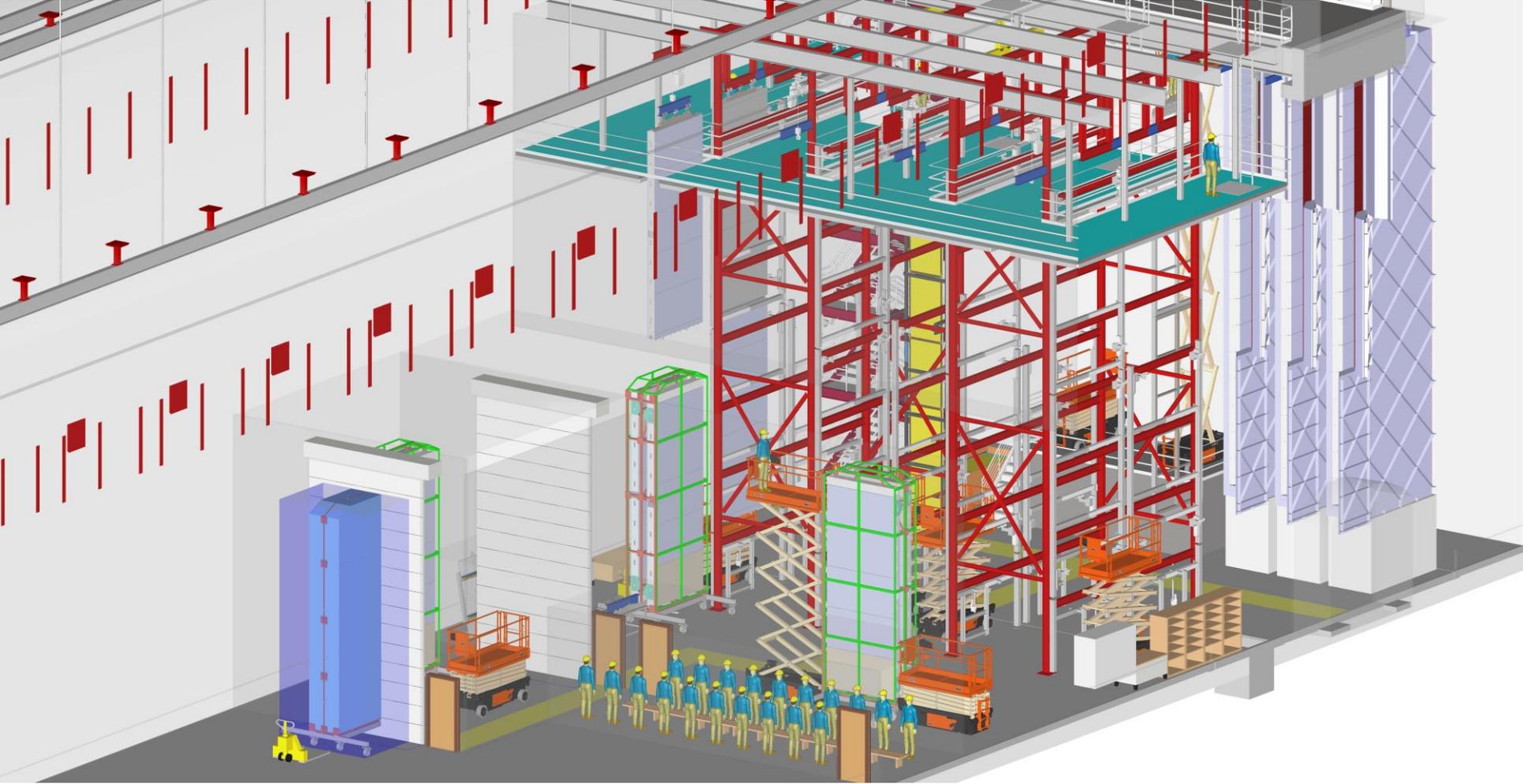
Thickness of the insulation

3x100mm

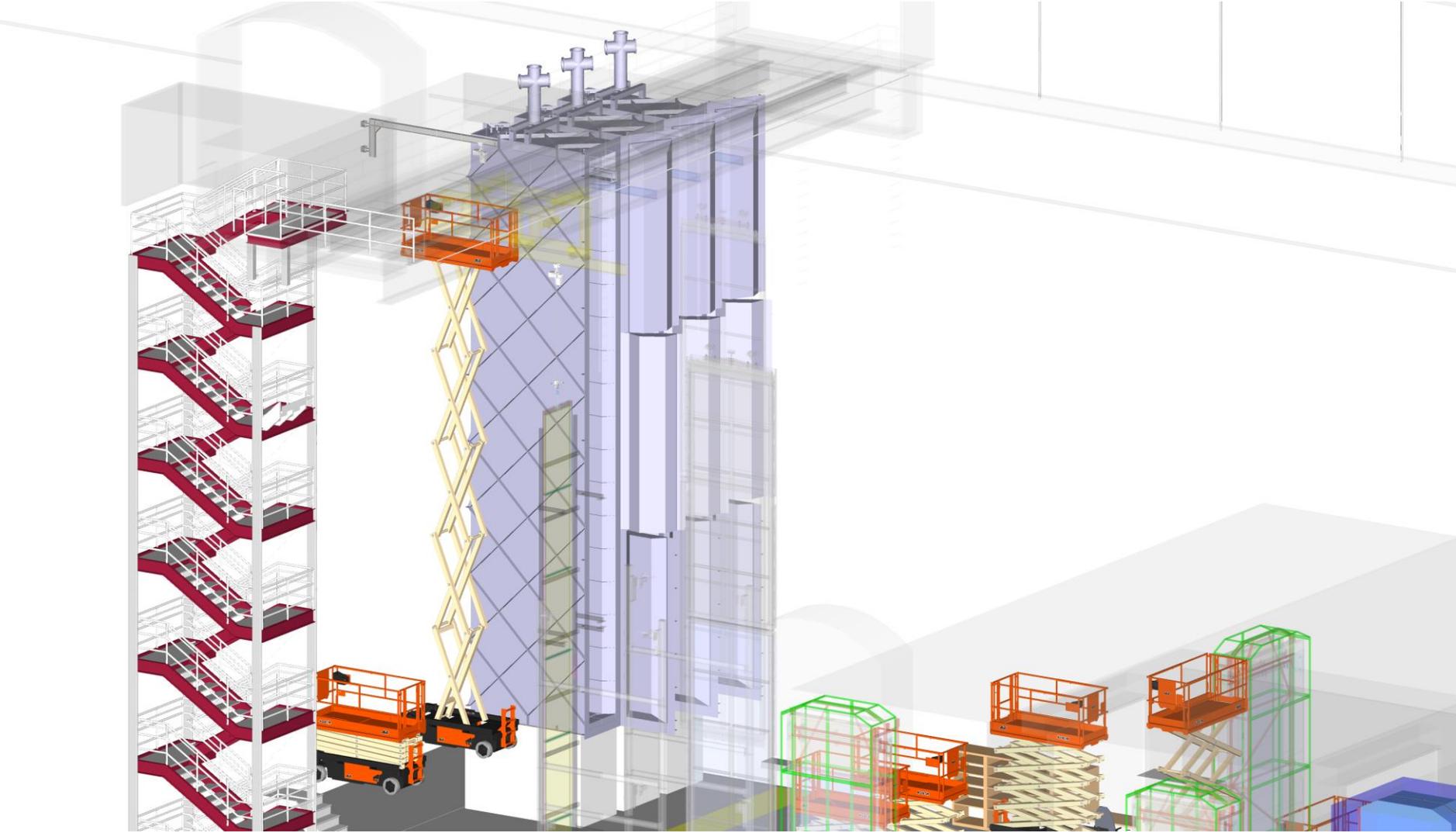
Internal Dimensions

13.4m x 2.6m x 0.7m (H x L x W)

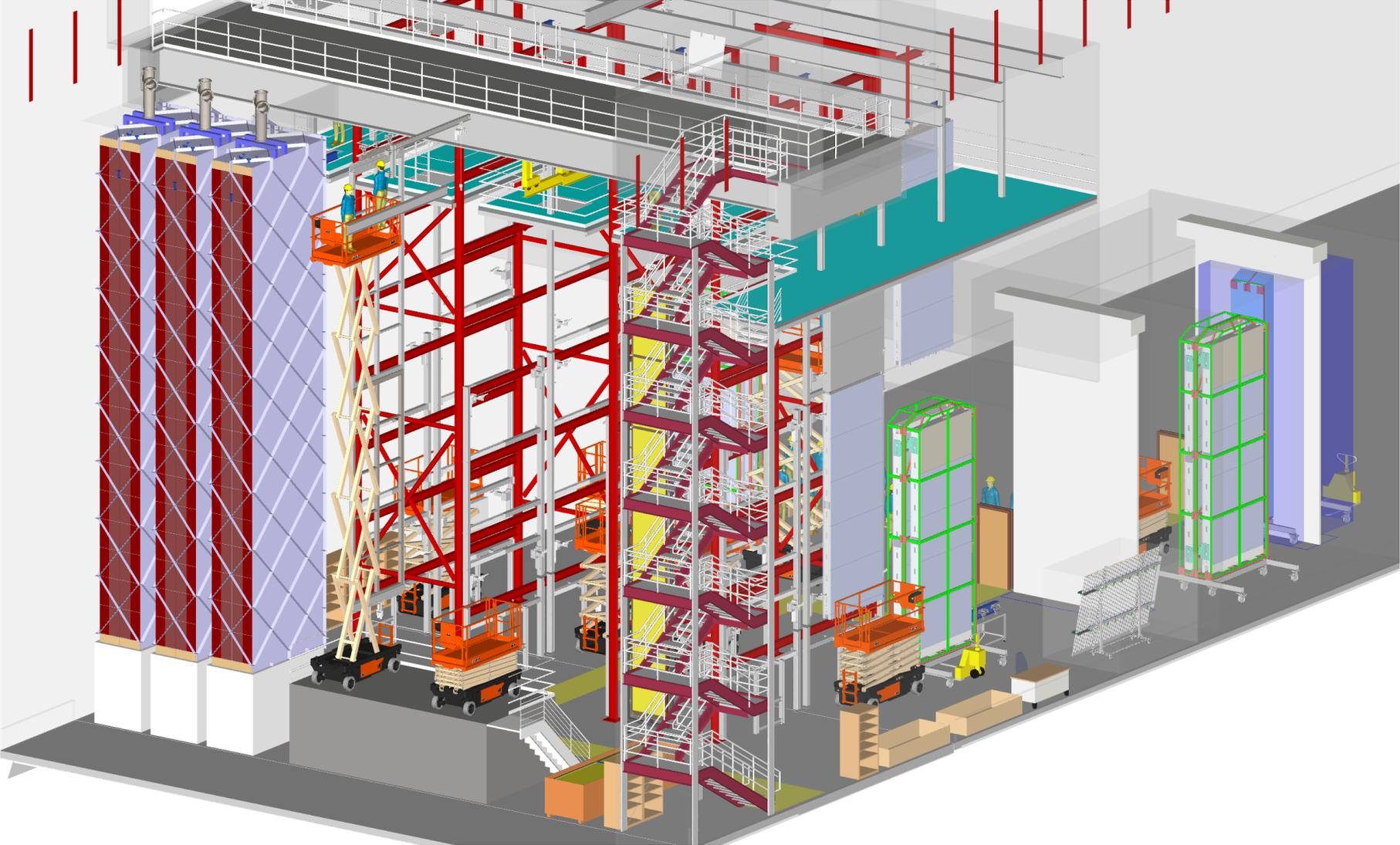
Current cavern layout



Current cavern layout



Current cavern layout



Future Work

Agree on:

- the internal dimensions
- cryo interfaces
- clean room interfaces

Improve:

- the door, for easier opening and closing
- the door sealing, i.e. add additional seal
- the “membrane”

