

# Status of DESIR

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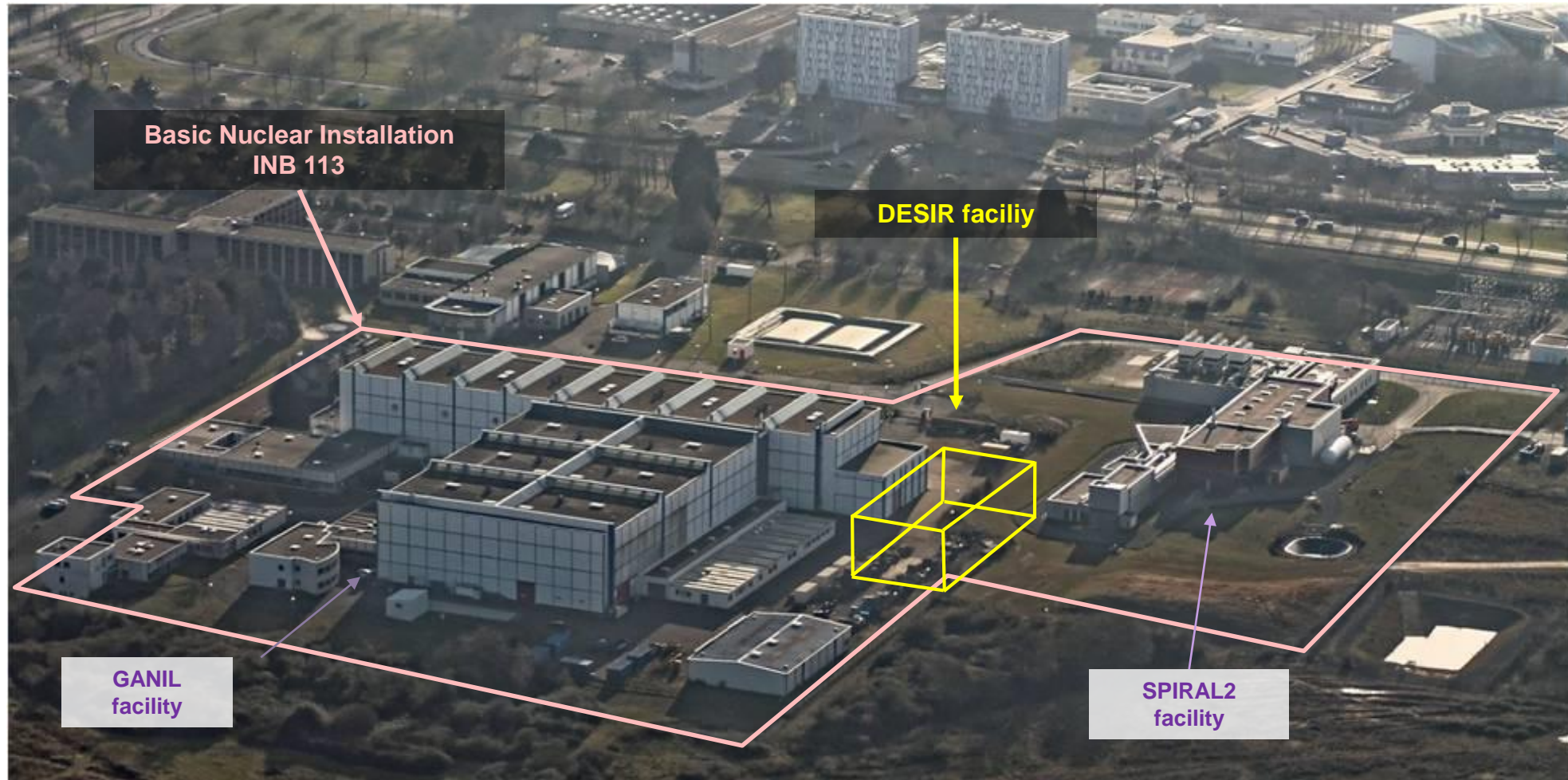


***Strasbourg, May 27-29, 2024***



***DESIR : Désintégration, Excitation et Stockage d'Ions Radioactifs - EQUIPEX (2012-2024)***

## Operation: Construction of the DESIR facility within INB 113



Projected investment cost: €33M (2/3 building and infrastructure - 1/3 scientific process)

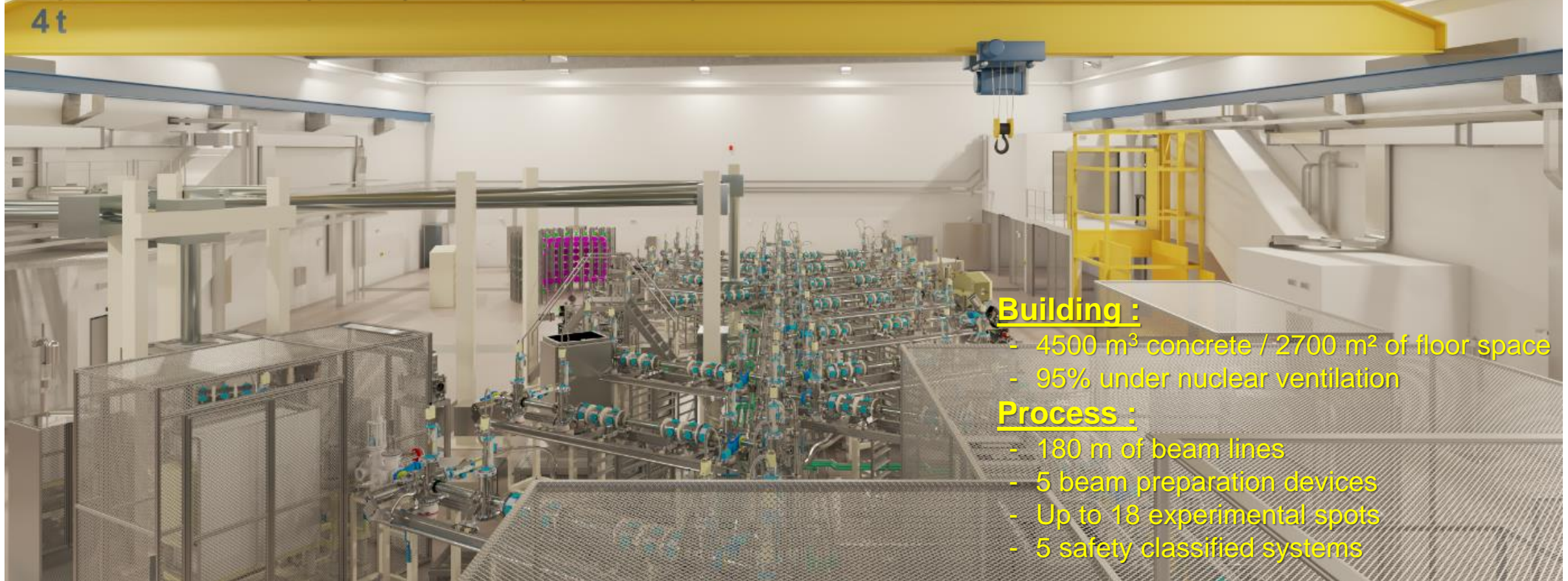
Human resources: 250 FTE / 8 years

INB modification authorization process

Building delivery: T3-2025

Experiments: 2026 (stable) / 2027 (radioactive)

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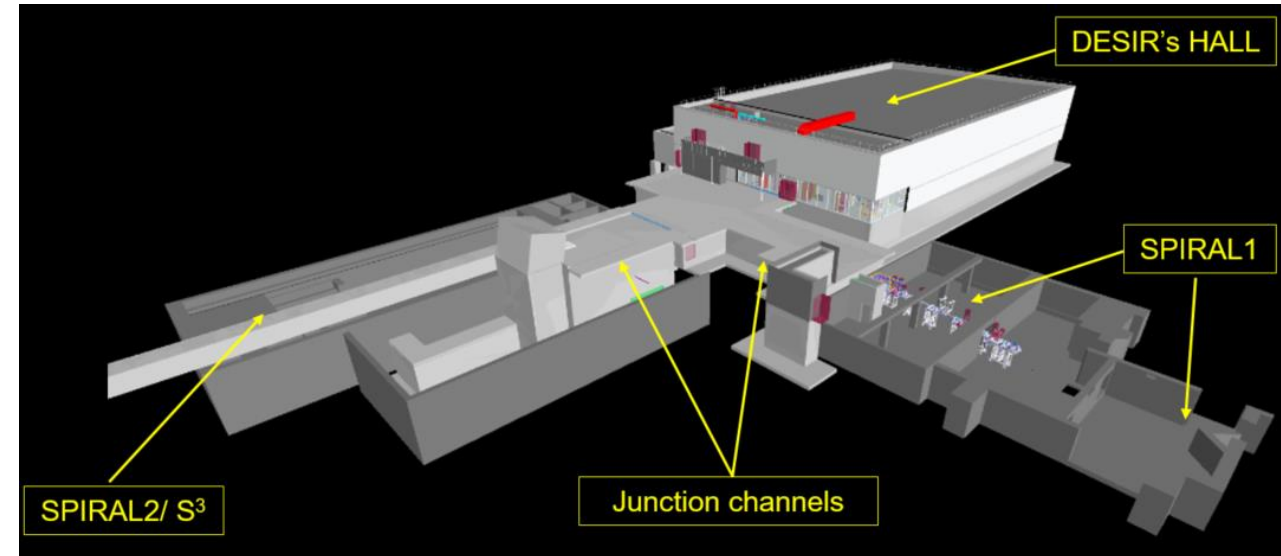
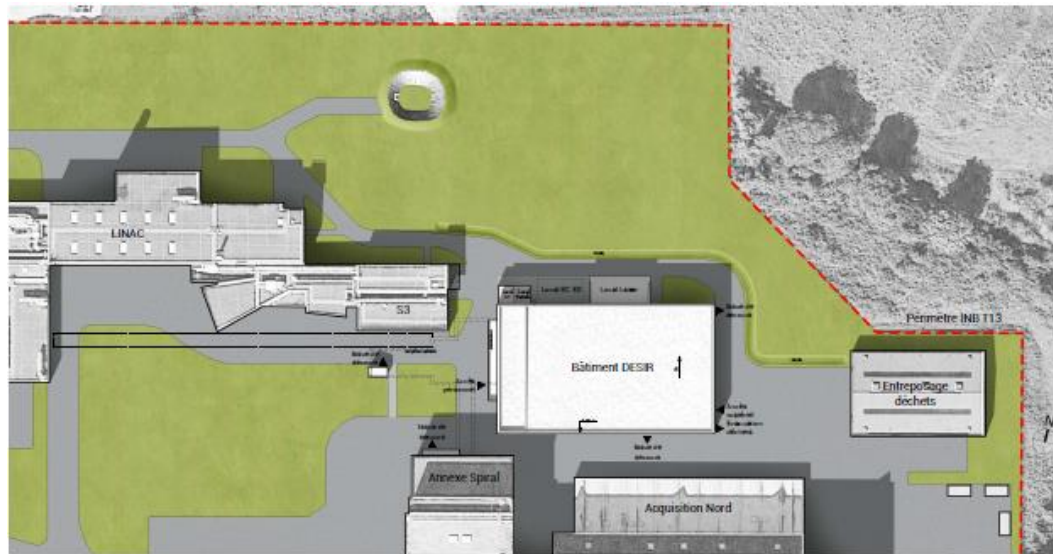
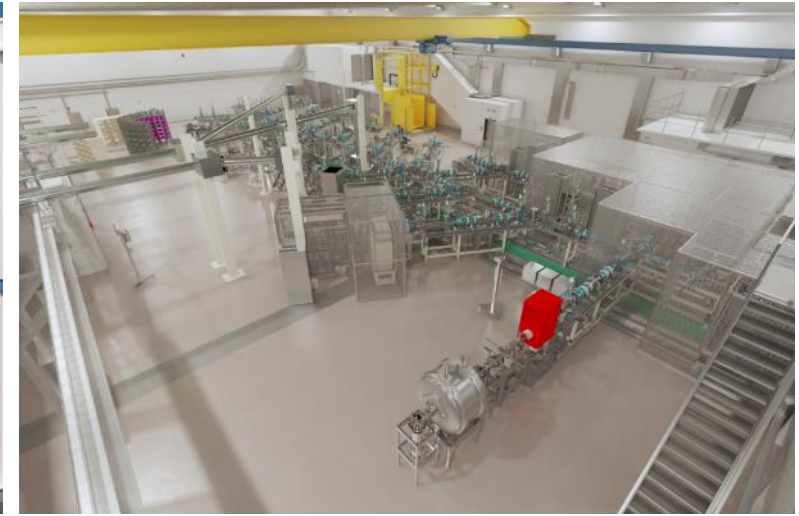


#### Building :

- 4500 m<sup>3</sup> concrete / 2700 m<sup>2</sup> of floor space
- 95% under nuclear ventilation

#### Process :

- 180 m of beam lines
- 5 beam preparation devices
- Up to 18 experimental spots
- 5 safety classified systems



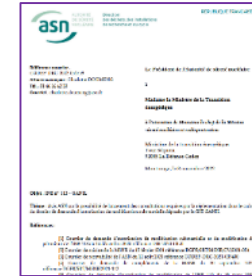
... construction in progress at GANIL

## March 2022: construction licence submission to the Ministry of Ecological Transition



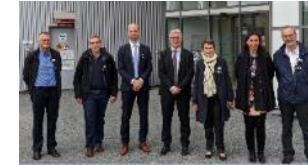
- 2022-03-23-demands IRSN Questionnaire RP BERIN (avant le 16 mai)
- 2022-04-11-demands IRSN Questionnaire Confinement SCA BAC (avant le 30 mai)
- 2022-04-29-demands IRSN Inventaire radiologique (avant le 31 mai)
- 2022-05-04-demands IRSN voies de communication (avant le 03 juin)
- 2022-05-06-demands IRSN acces (avant le 07 juin)
- 2022-05-06-demands IRSN incendie (avant le 03 juin)
- 2022-06-28-demands IRSN Radioprotection (avant le 18 juillet)
- 2022-07-05-demands IRSN inventaire bis (avant le 25 juillet)
- 2022-07-06-demands IRSN chutes d'avion (avant le 25 juillet)
- 2022-09-01-demande IRSN Note GC (avant le 15 septembre)

## Sept. / Nov. 2022: green light from the safety authority -> Ministry of Ecological Transition



Instruction (many Q/A with the safety authority)

Discussion with local government representatives

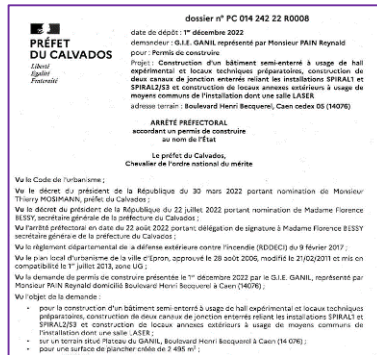


...with the Environmental authority



Next: same procedure for the operation licencing

## June 2023: Construction permit

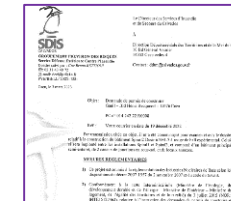


still 2024: request for permit to start operation ???

## April-May 2023: Public Enquiry



## March 2023: Green light -> Ministry of Ecological Transition



## Public Enquiry preparation



... numerous comments





October 2022:  
Clearing/releasing of  
construction areas



April 2023 : surface levelling



June 2023 : reorganization  
of site utilities



July 2023 : general earthworks



September 2023 : Site preparation



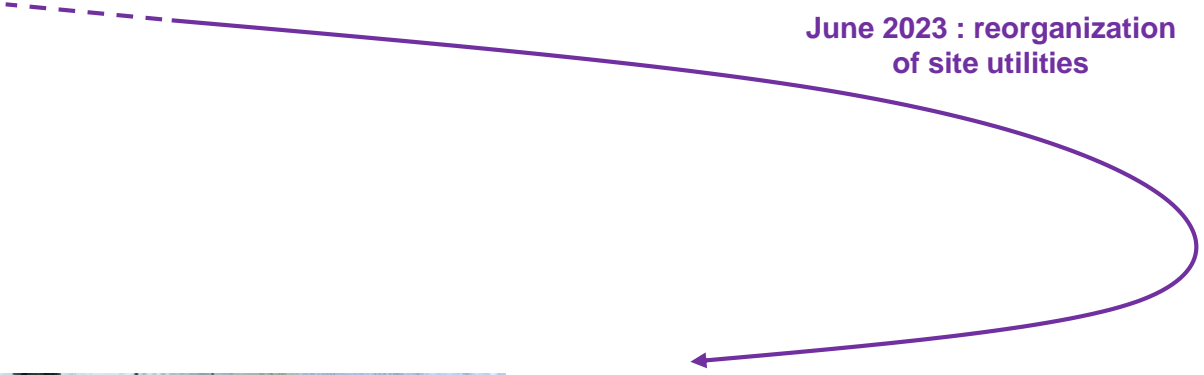
October 2023 : First concrete!



October 2023 : steel reinforcement level -3



October 2023 : Surface preparation





Dec. 2023... A number of questions!



Actually nothing to worry about



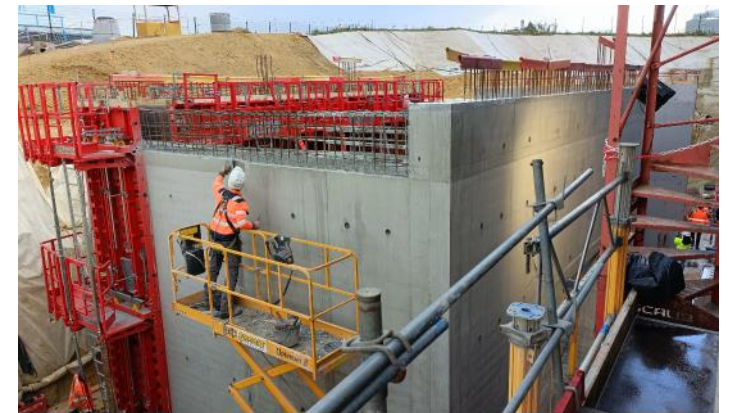
Drilling of existing walls,  
elevation of walls to level -3 and  
preparation of hall floor slab



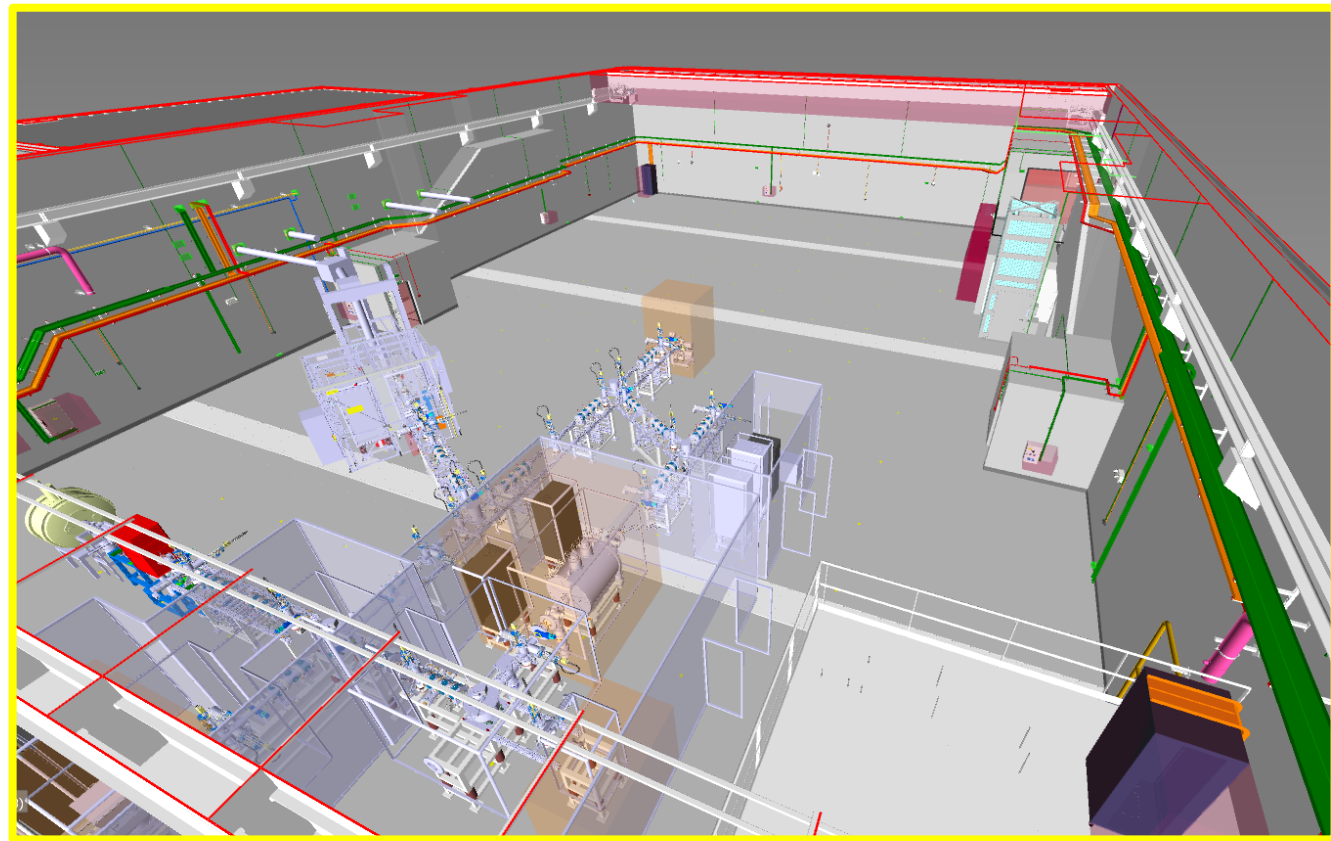
May 2024: DESIR has its four walls



January 2024: Finishing of level -3 wall







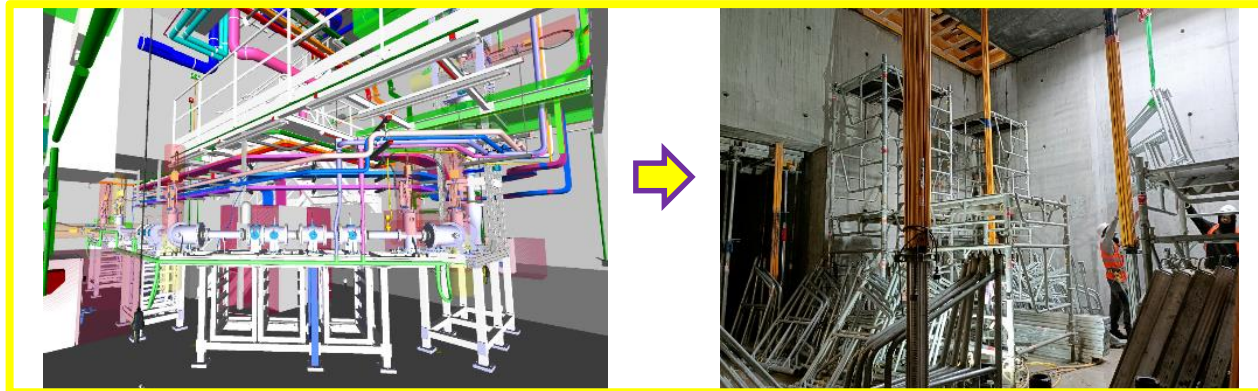
S3/DESIR emergency exit



Vertical beam line



Junction S3/DESIR beam line area

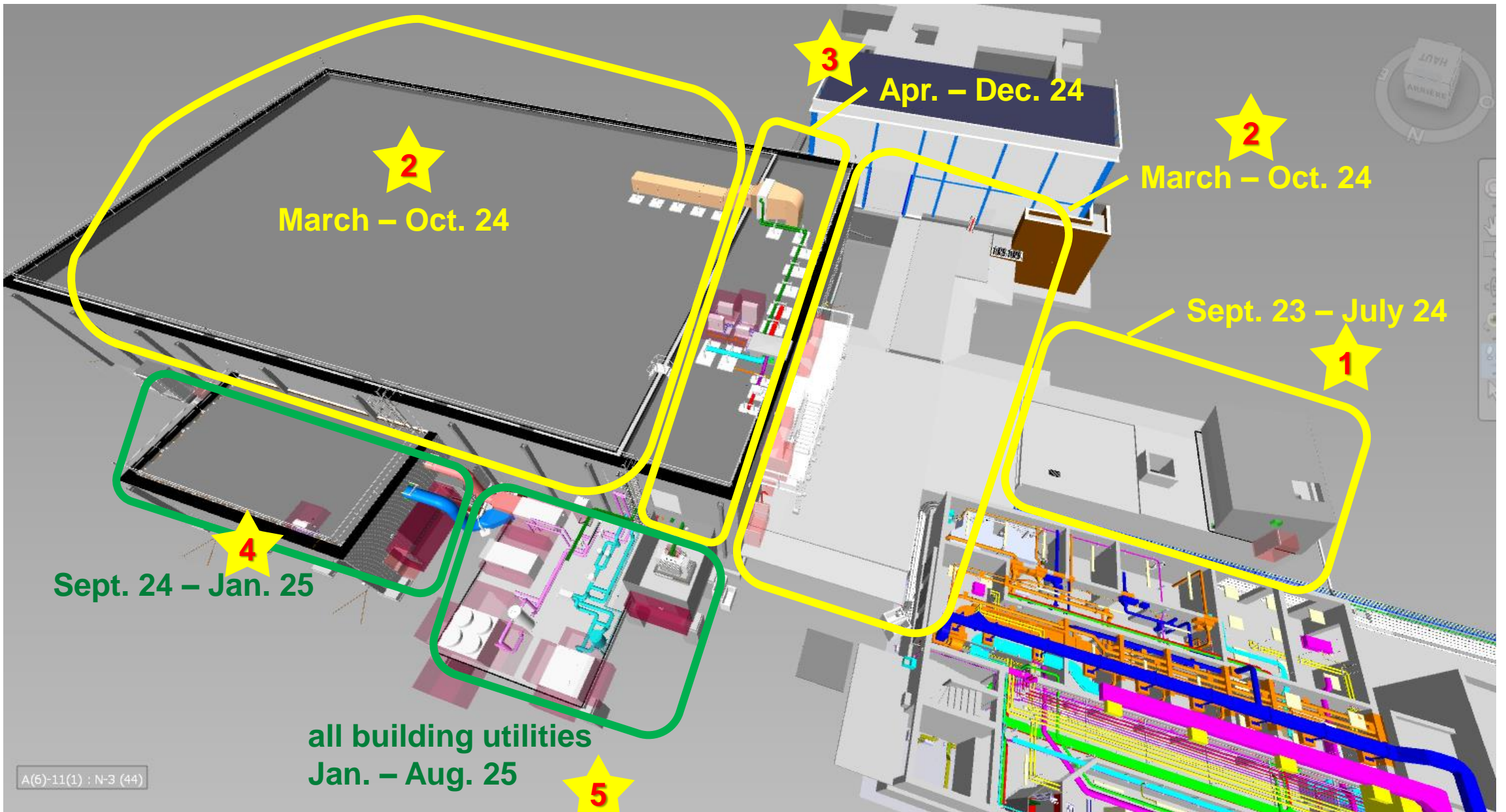


DESIR west facade



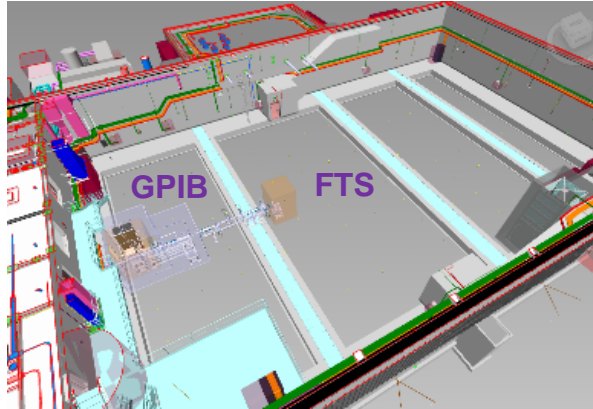


**DESIR has its four walls.... on May 7, 2024**

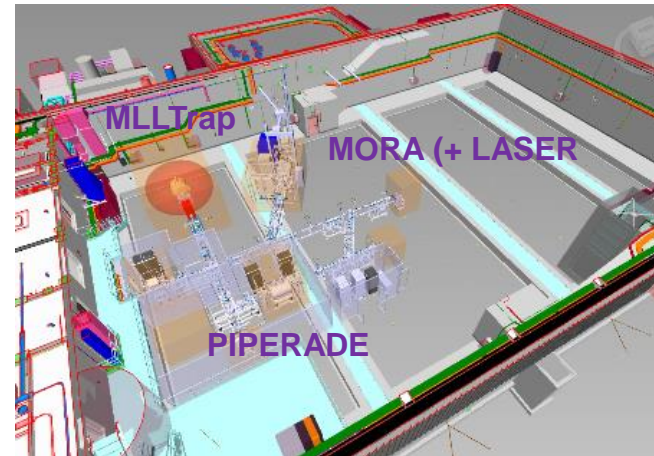


- **Building delivery : September 2025**
- **October 2025 to September 2026 : Beam line & experiment installation**
- **June 2026 to January 2027 : Cabling**
- **October 2026 to June 2027 : Technical commissioning**
- **March to October 2027 : Stable beam commissioning**
- **November 2027 : Facility ready for radioactive beams**

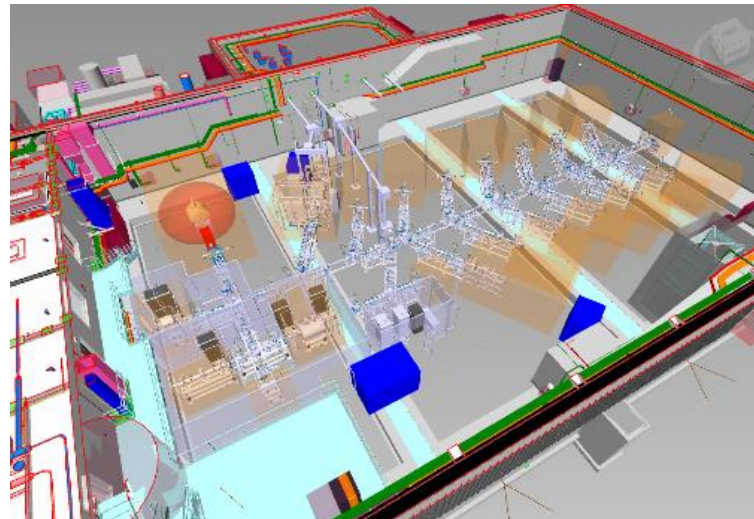
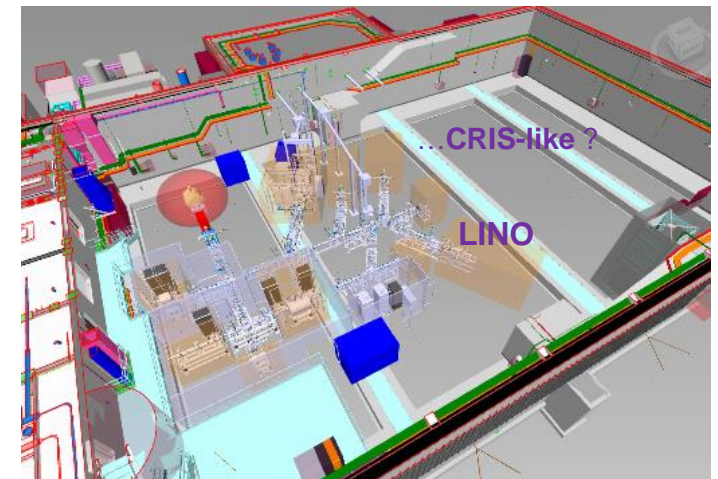
2026 → Step 0 : Technical platform  
Facility delivery basic program



2027-28 → Step 1 : DETRAP Program  
Facility delivery project program  
+ partial laser@desir program)



2028-29 → Step 2 : LUMIERE Program  
Completion of laser@desir program



post 2030 → Step 3 : Progressive  
completion of research programs  
in DESIR  
DETRAP - LUMIERE - BESTIOL







Thank you for  
your attention

