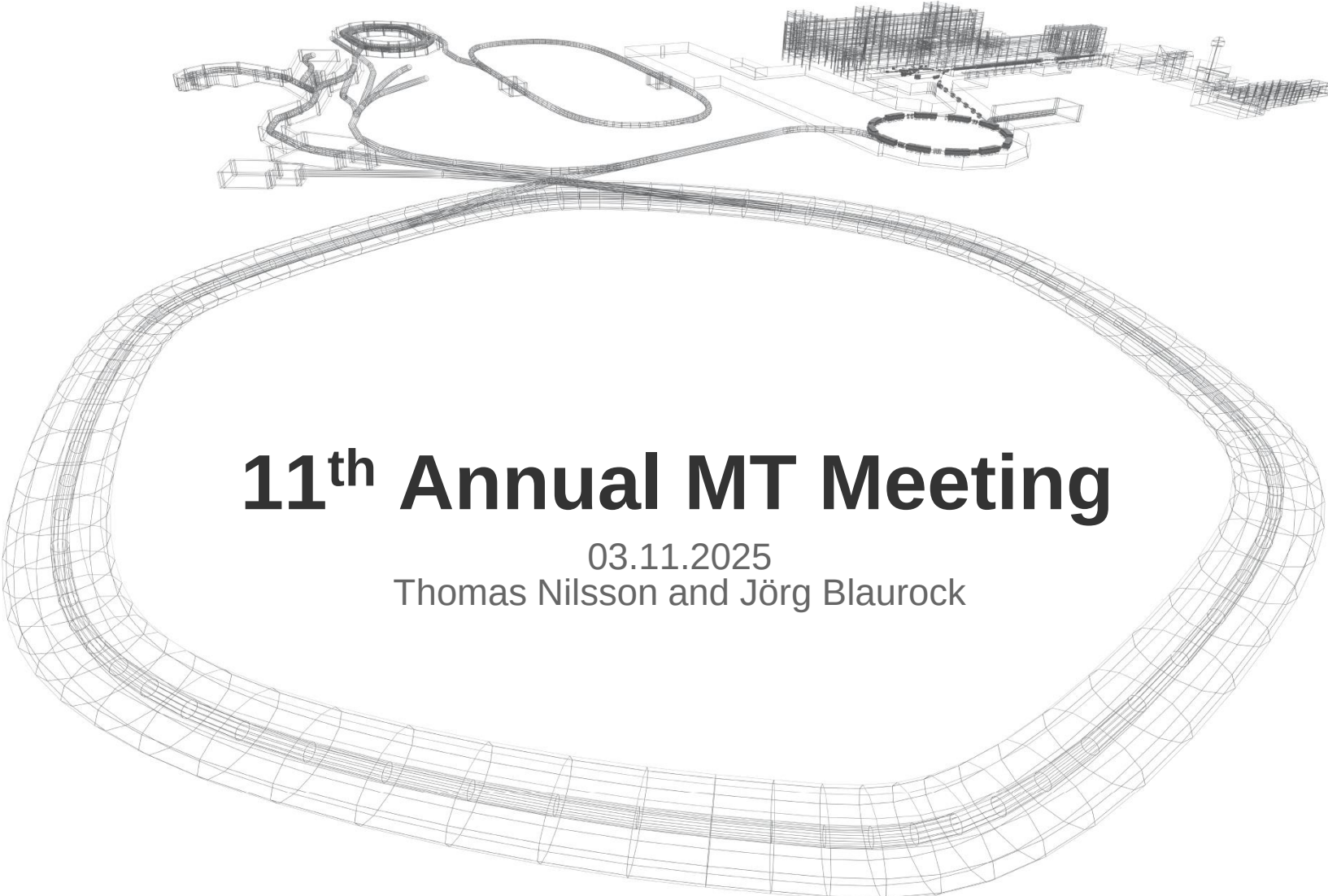


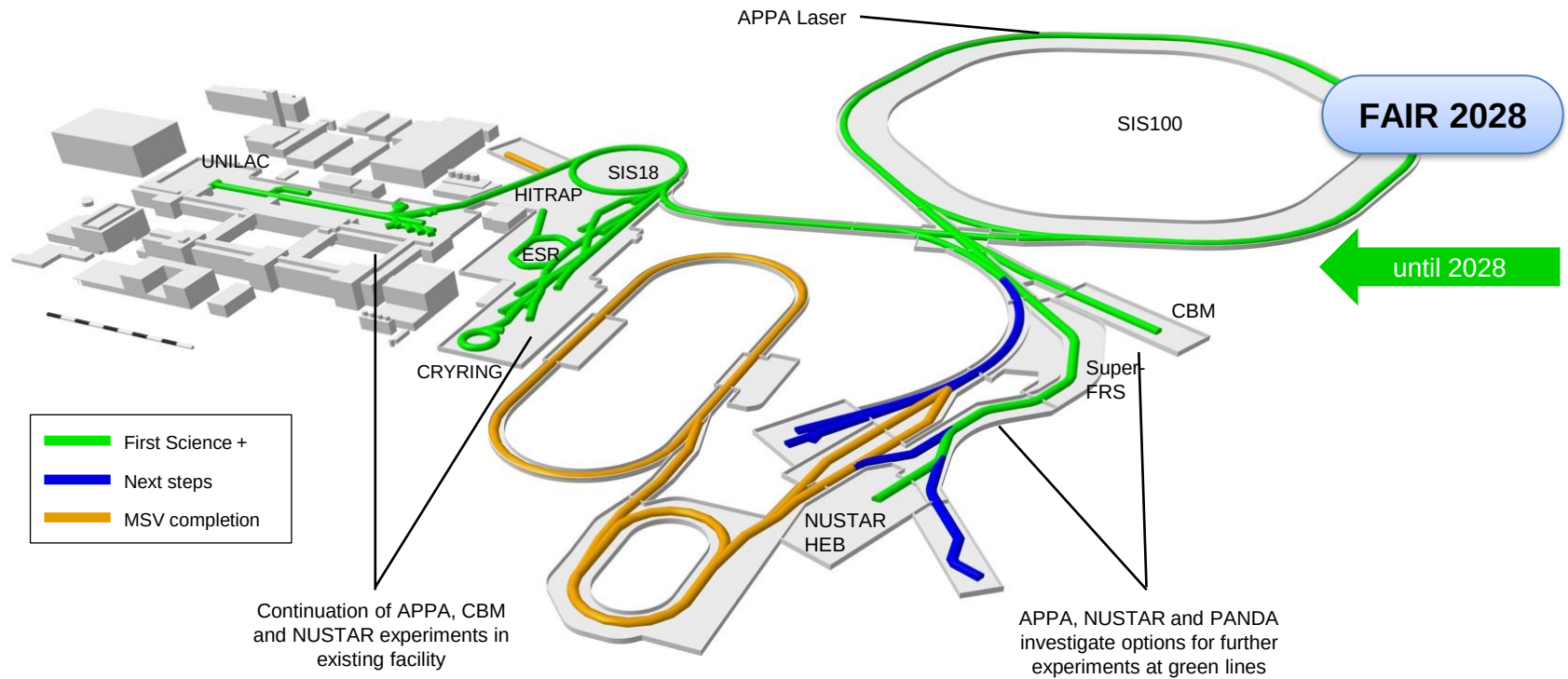
A detailed wireframe model of a particle accelerator, showing a large oval ring and several smaller, more complex sections. The model is rendered in a light gray wireframe style, highlighting the intricate geometry of the facility.

11th Annual MT Meeting

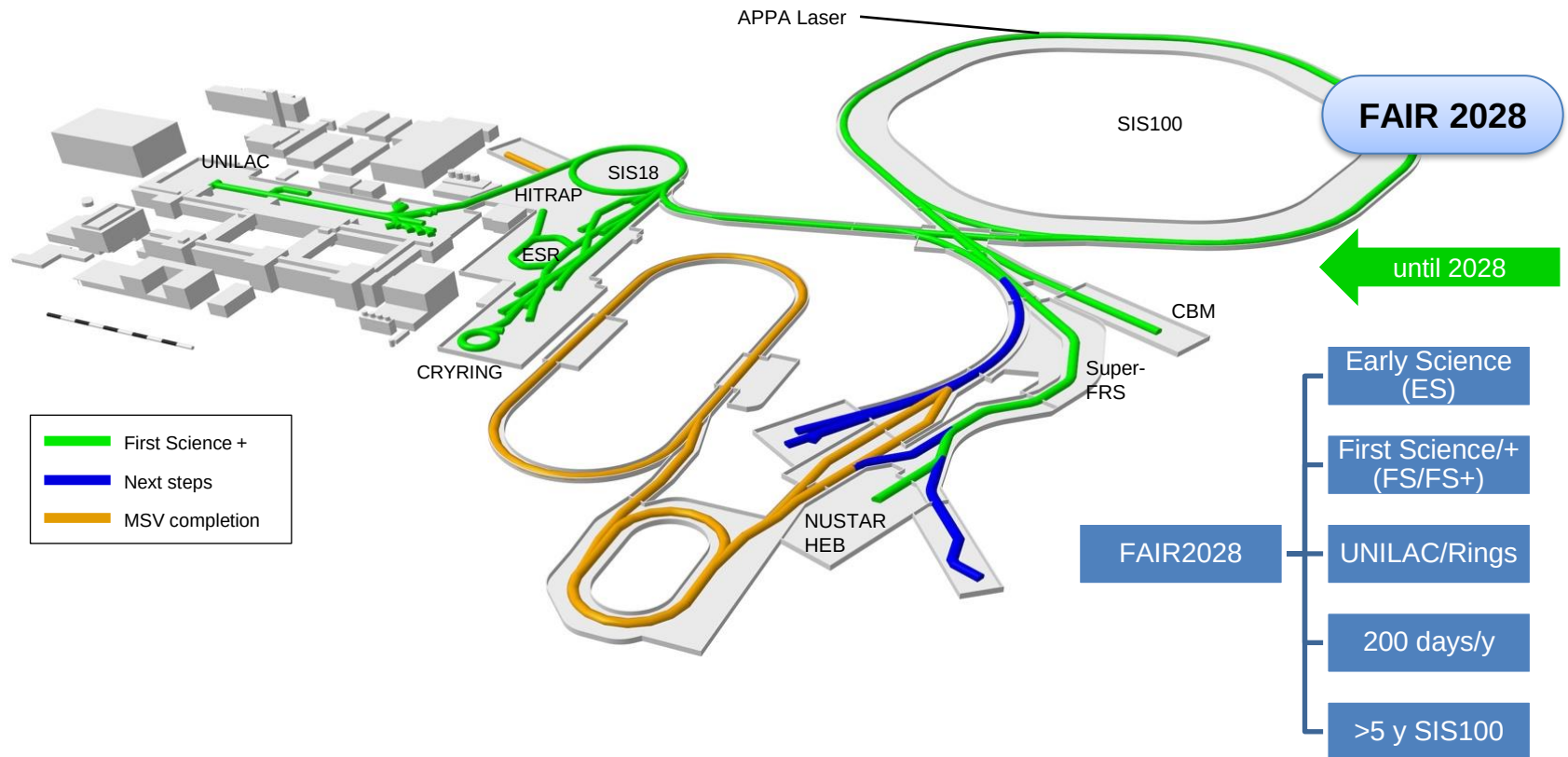
03.11.2025

Thomas Nilsson and Jörg Blaurock

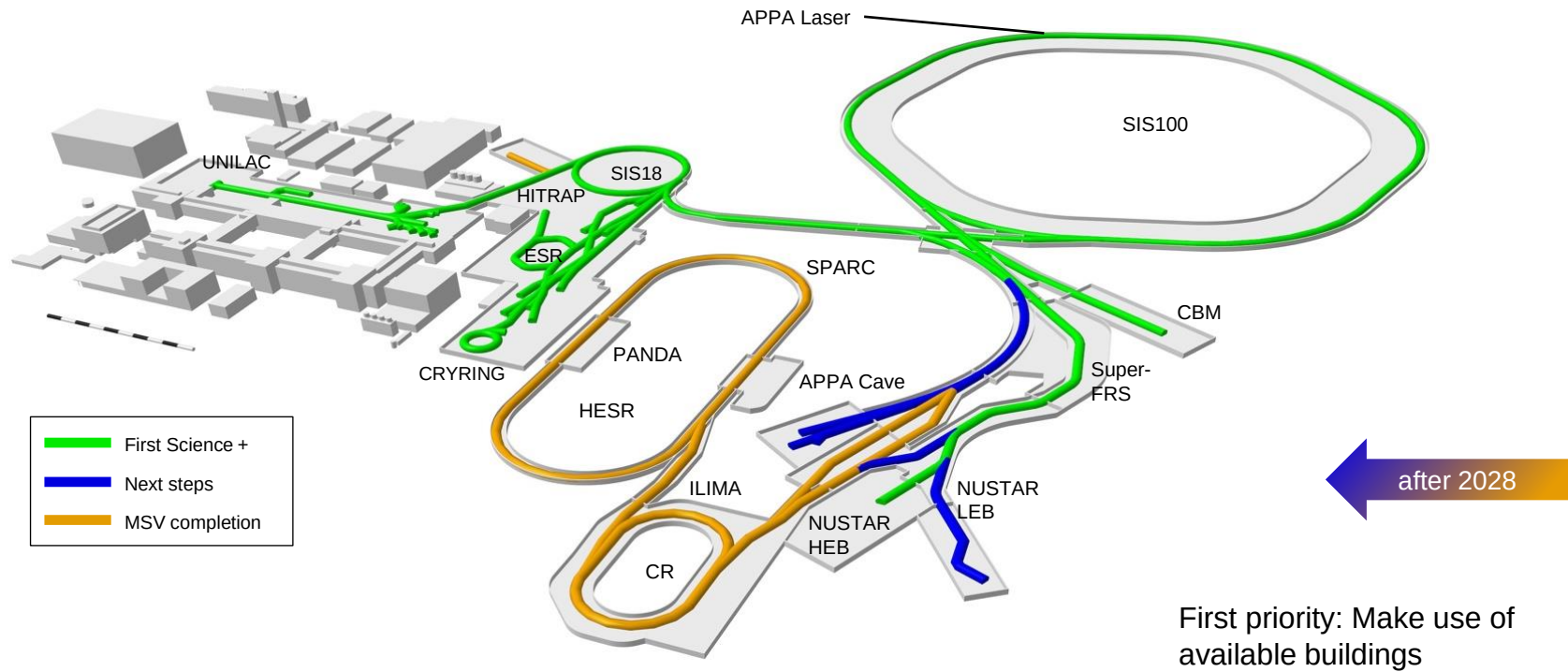
Current prospects



Current prospects

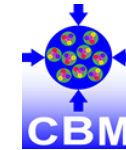


Long-term goals



Major Experiment Highlights

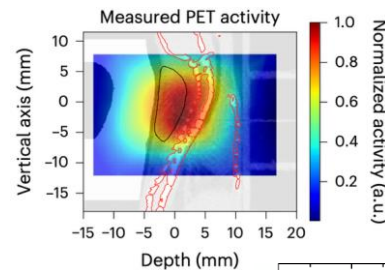
- CBM Magnet:
 - FAT of magnet support
 - first dipole coil impregnated



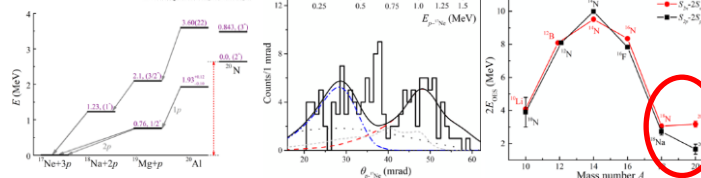
- Laser-Building planned
 - next to APPA Cave within EU- financed project THRILL



- APPA/NUSTAR
 - Nature publication for Biophysics (ERC grant)



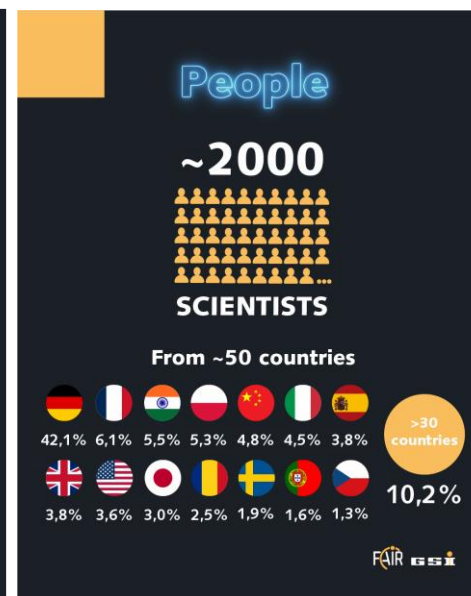
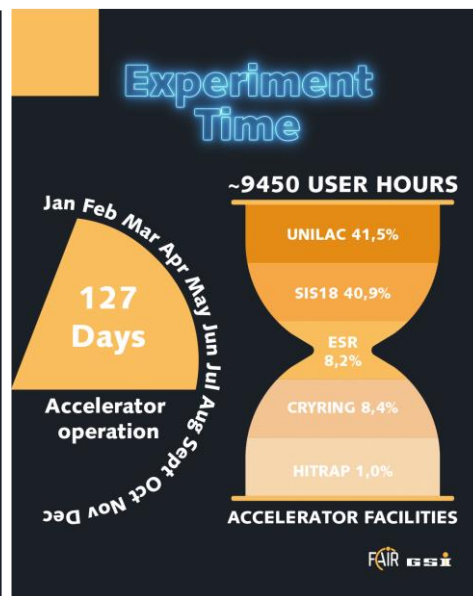
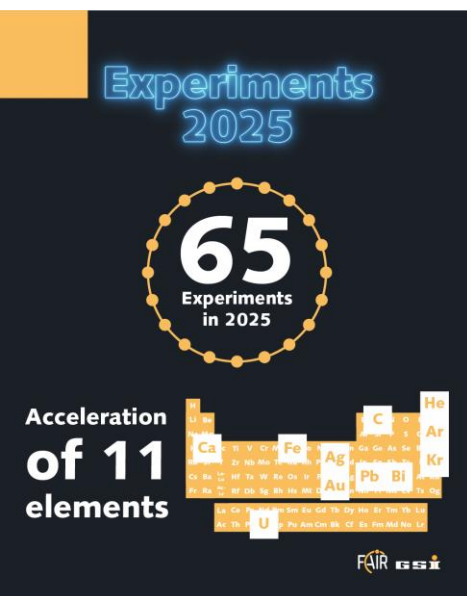
- NUSTAR
 - Discovery of new isotope ^{20}Al – 3-proton emitter – Isospin breaking



- RICH Conference in Mainz in Sept 2025
 - strong participation/leadership of the PANDA collaboration

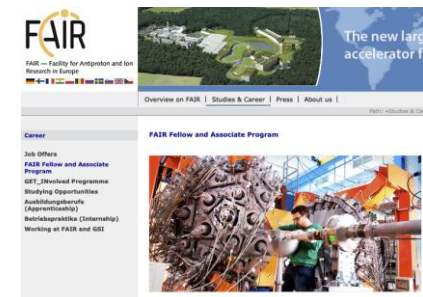


Beam Time 2025 – publicity figures



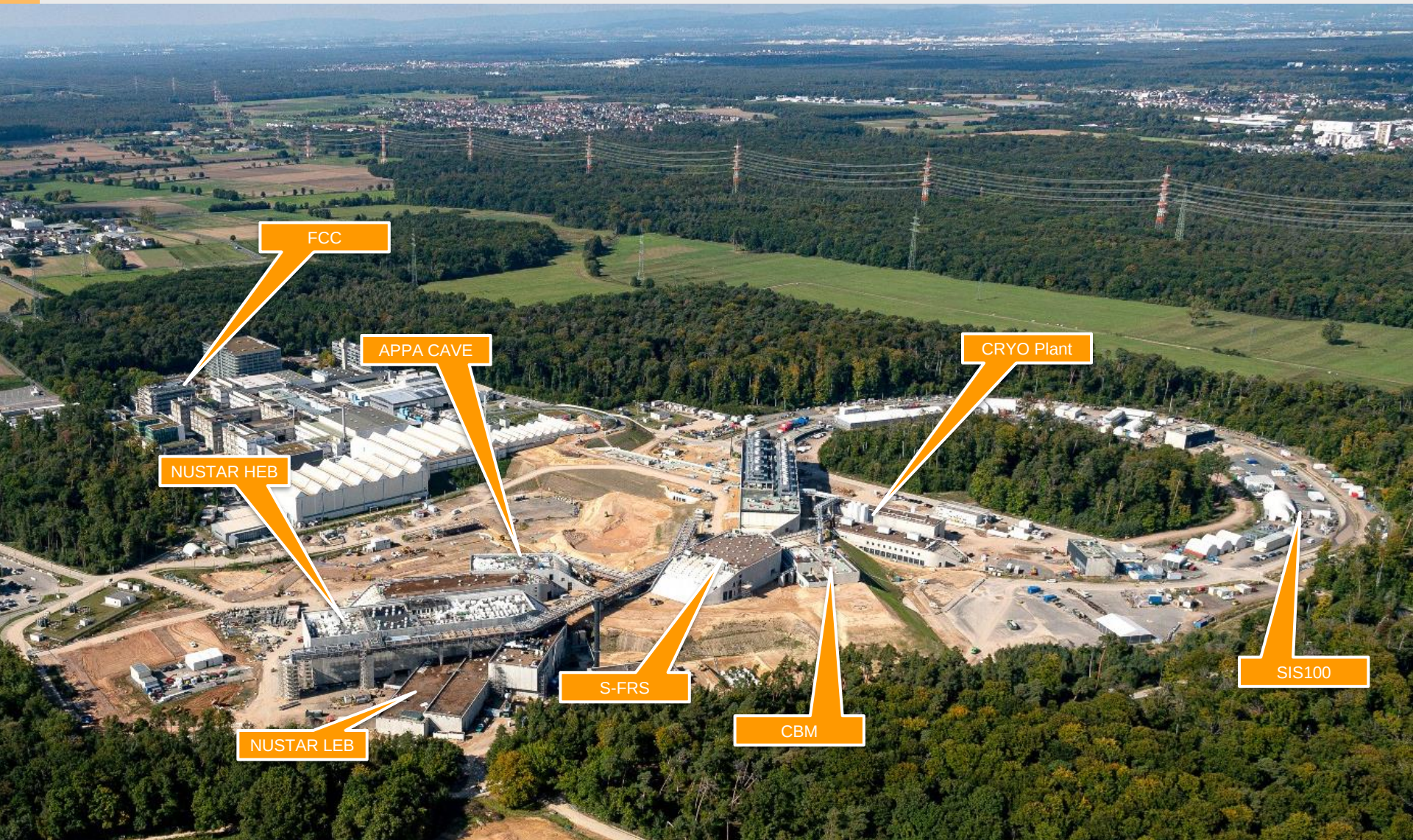
Outreach and mobility

- GSI/FAIR named “quantum location”
 - by German Physical Society (DPG)
- Science Pop-Up store
 - prolonged until end of 2025
- Hessian Day in Berlin
- Parliamentarian Evening with BMFTR
- Several programmes set up to enhance mobility, e.g.:
 - FAIR Fellow and Associate Programme
 - GET_INVolved Programme for international students



FAIR Project Progress – Civil Construction

Construction Site



FAIR Project Progress – ACC

Early Science with Super-FRS

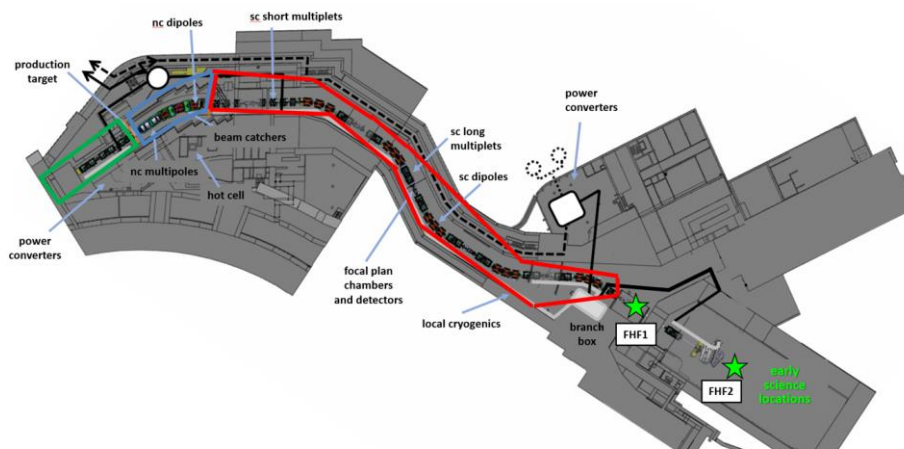


FAIR Project Progress – ACC

Early Science with Super-FRS



- target chamber



- first nc dipole



- sc multiplet magnets

FAIR Project Progress – ACC

First Science with SIS100



FAIR Project Progress – ACC

First Science with SIS100

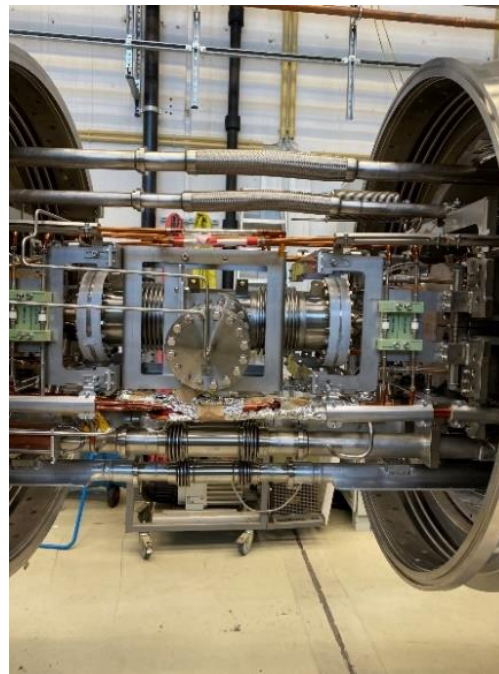


FAIR Project Progress – ACC

First Science with SIS100



- Installation of **main dipole- and quadrupole power converters**

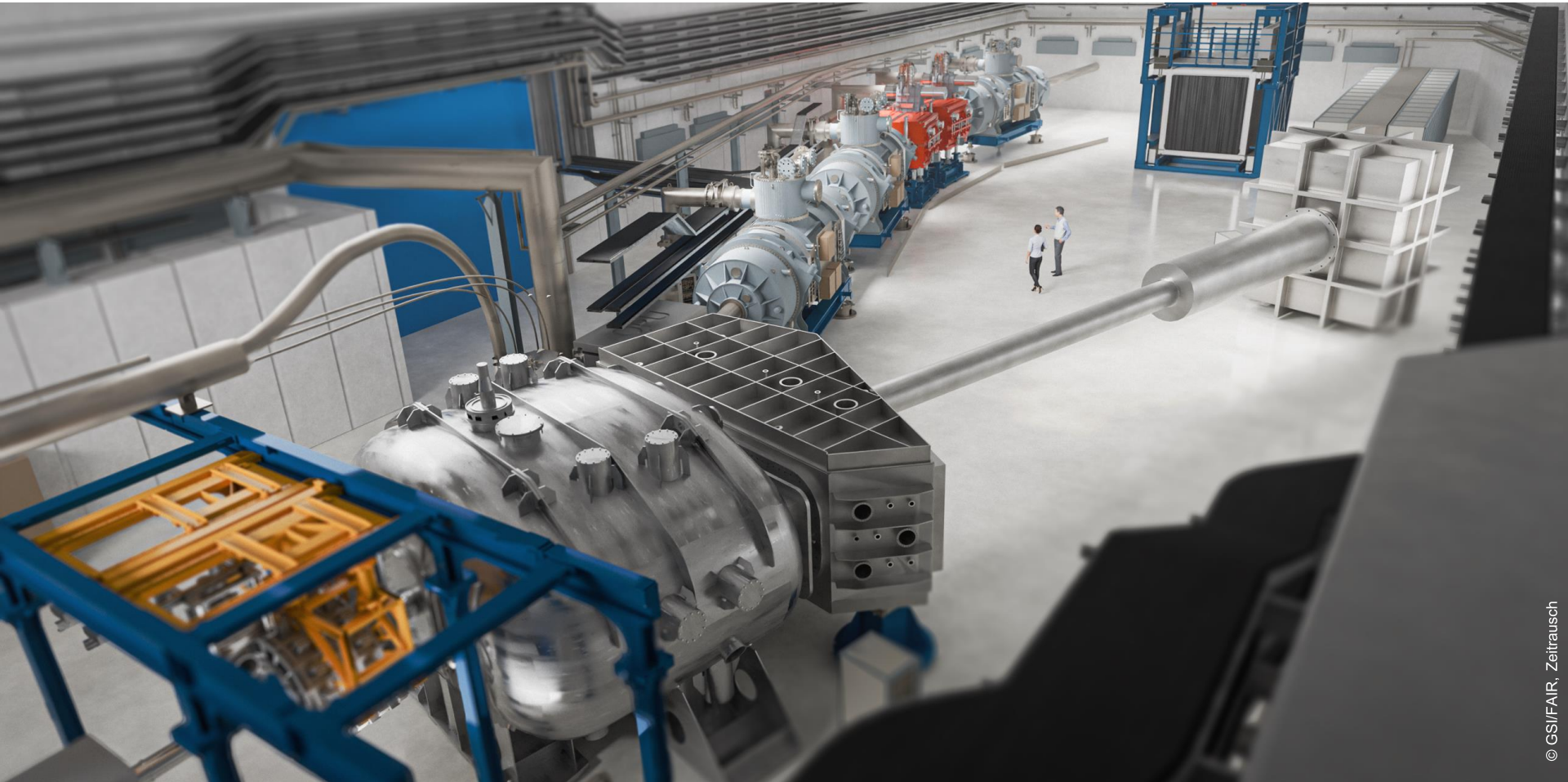


- Welding of **process lines**



- Installation of **SIS100 laser cooling system**

View to the future: NUSTAR



View to the future: SIS100



Thank you for your attention!

