

# FLASH2020+

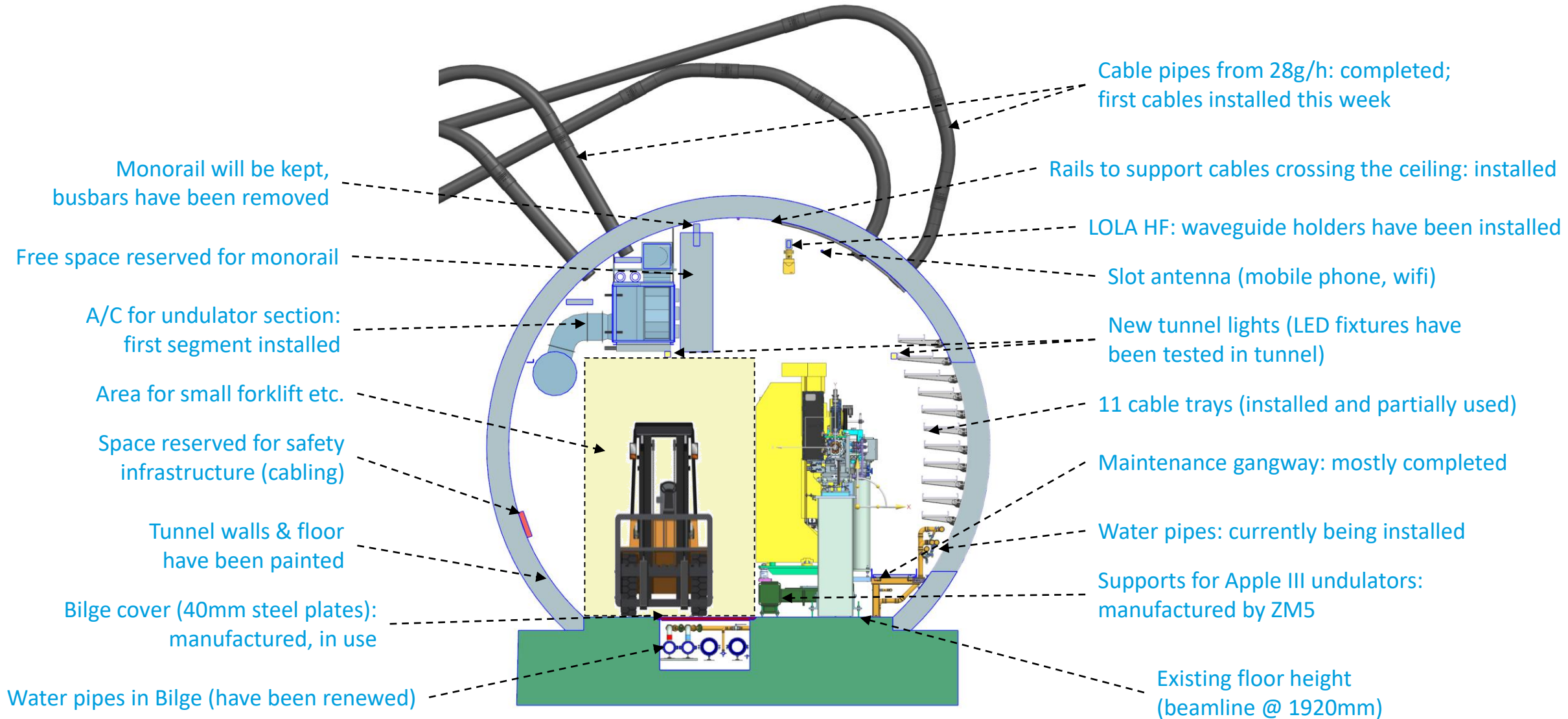
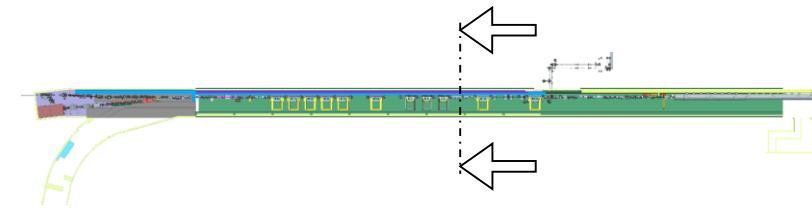
## Progress Review Meeting

Infrastructure Tunnel / I-Pillar

Olaf Rasmussen  
Hamburg, 28.02.2025

# Update: Tunnel layout

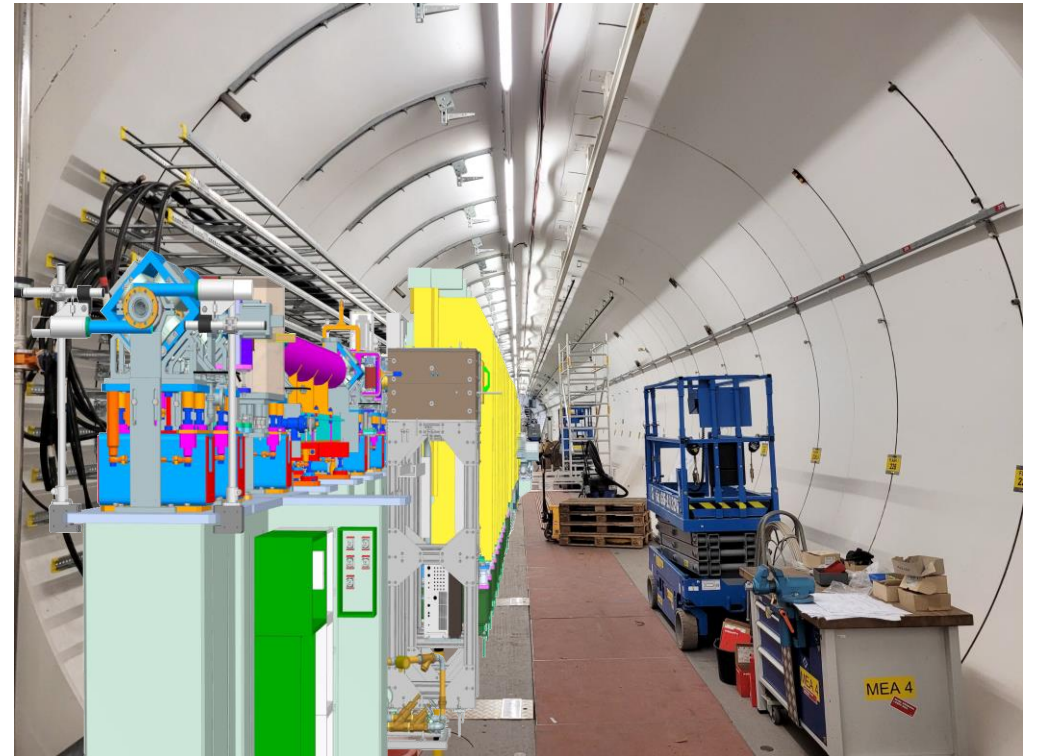
Only minor updates since October



# After emptying: re-filling the FLASH1 tunnel

## Installation of cable pipes, gangway, cable trays etc.

- Tunnel has been painted, infrastructure installations are proceeding.
- Controlled area (radiation protection) is still temporary suspended.
- Currently: construction phase finished, ramp-up of installation phase.





# Construction / installation work in FLASH1 tunnel

## Progress so far (since last progress review meeting)

- Some impressions:



Tunnel being painted



Cable trays



New dump pit



Cooling water pipes @ bilge



Floor plate support



Tübbing gap sealed





# Construction / installation work in FLASH1 tunnel

## Progress so far (since last progress review meeting)

- Some more impressions:



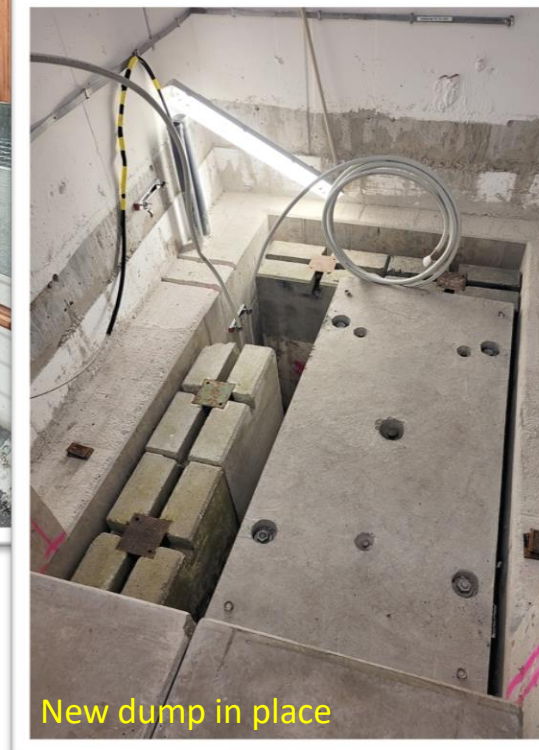
First section of new a/c



Cooling water pipes on tunnel wall



Gangway „skeleton“



New dump in place



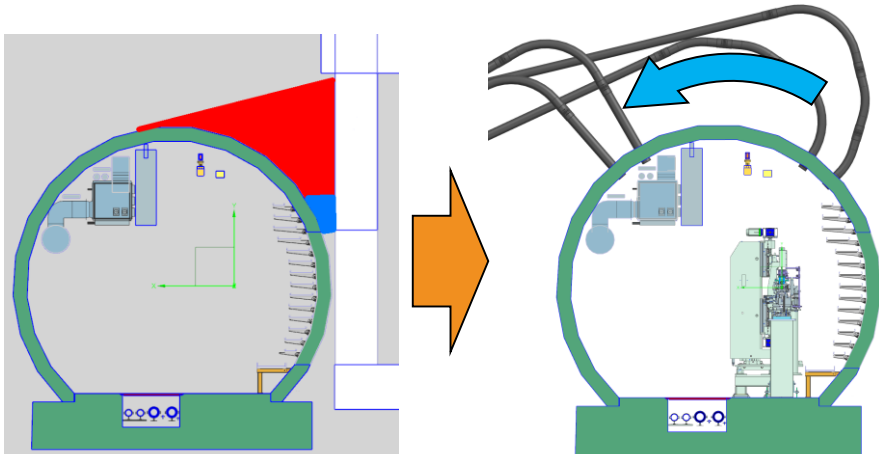
Drill positions marked



# Cable pipes between 28g/h and FL1 tunnel

→ done.

- After last progress review meeting: some more **surprise concrete** found (even further downstream of extraction); solved the same way (by switching tunnel sides).
- Pipe sealing was executed as planned (foil clamping flange/„Folienklemmflansch“ on top of annular seals), pressure test of pipes has been performed (results look good).
- All digging finished end of January; first cables have been put in place this week (some more pictures on next slide).

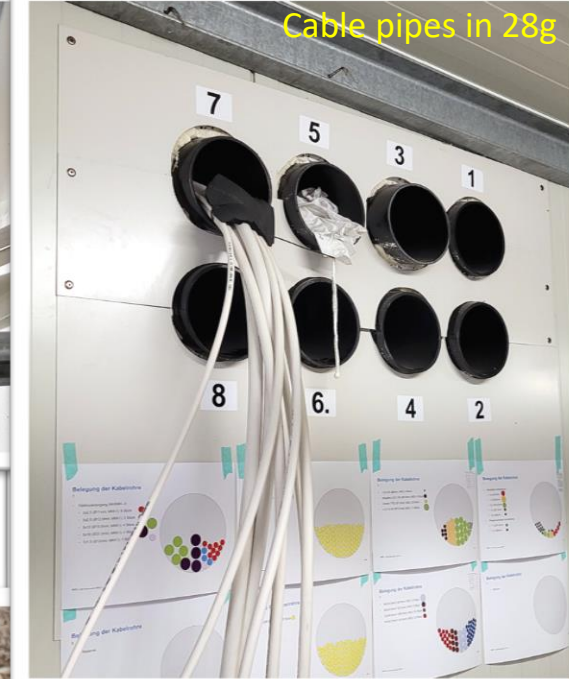
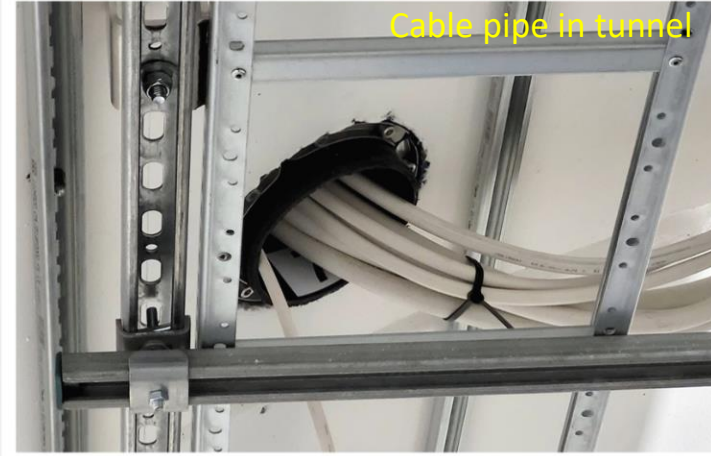




# Cable pipes between 28g/h and FL1 tunnel

→ done.

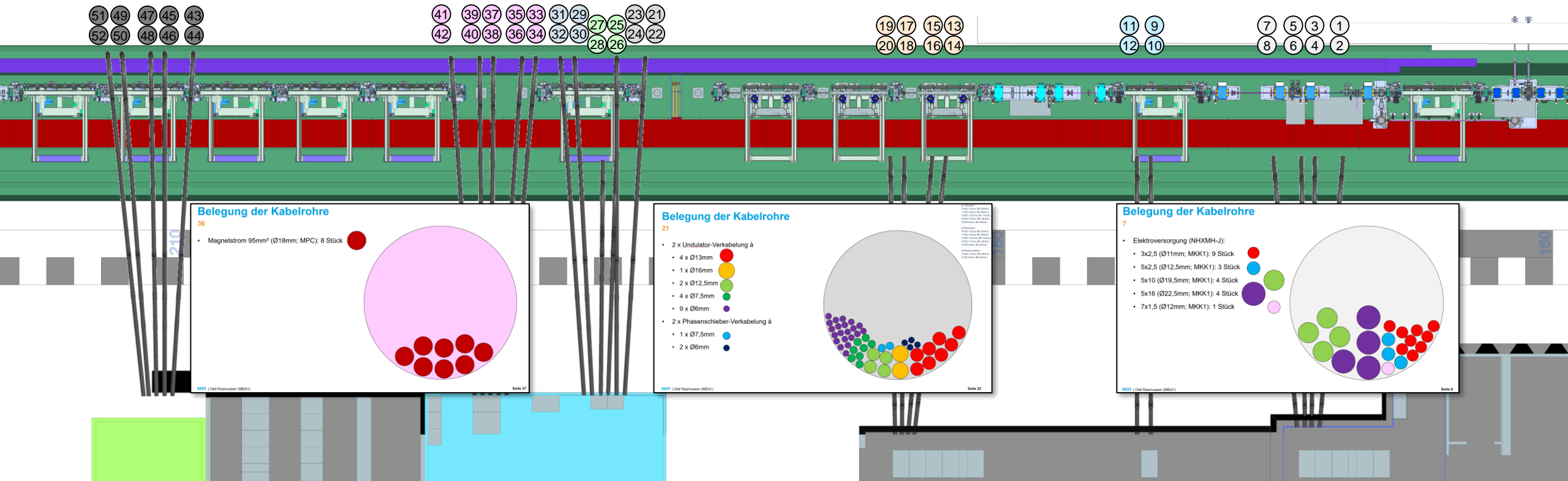
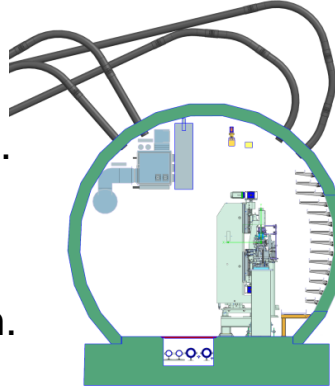
- Some pictures (to save you from listening to thousands of words from me):



# Allocation of cable pipes

## Overview

- All pipes have unique numbers (see below; each pipe in top view represents two pipes on top of each other).
- Occupancy and filling level have been discussed last year.
- All information is available in XWiki; printouts with planned occupancy are hanging in the tunnel and in 28g/h.

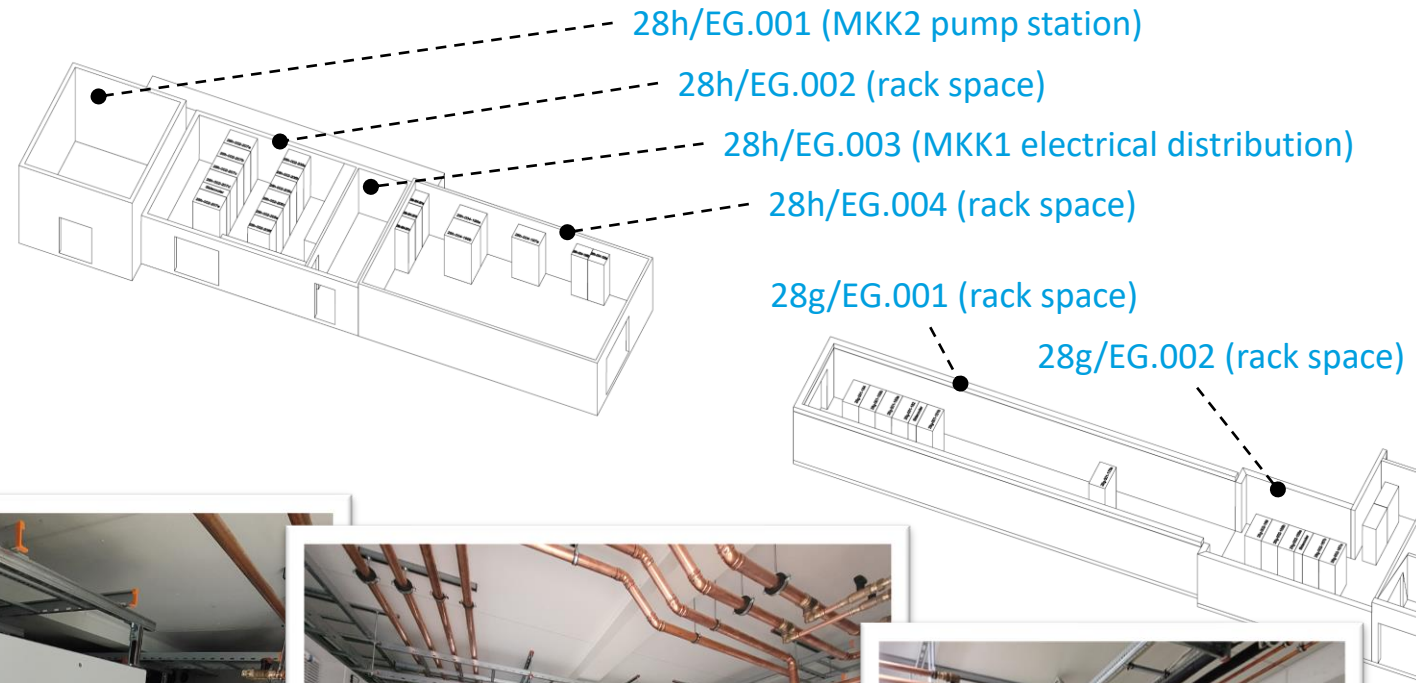




# (New) container buildings next to tunnel

## Progress so far

- Cooling water pipes between 28g, 28h & 49 have been built.
- Most Racks are installed in 28h/EG.002.
- Racks have been delivered to 28g/EG.001&002; will be installed next week.

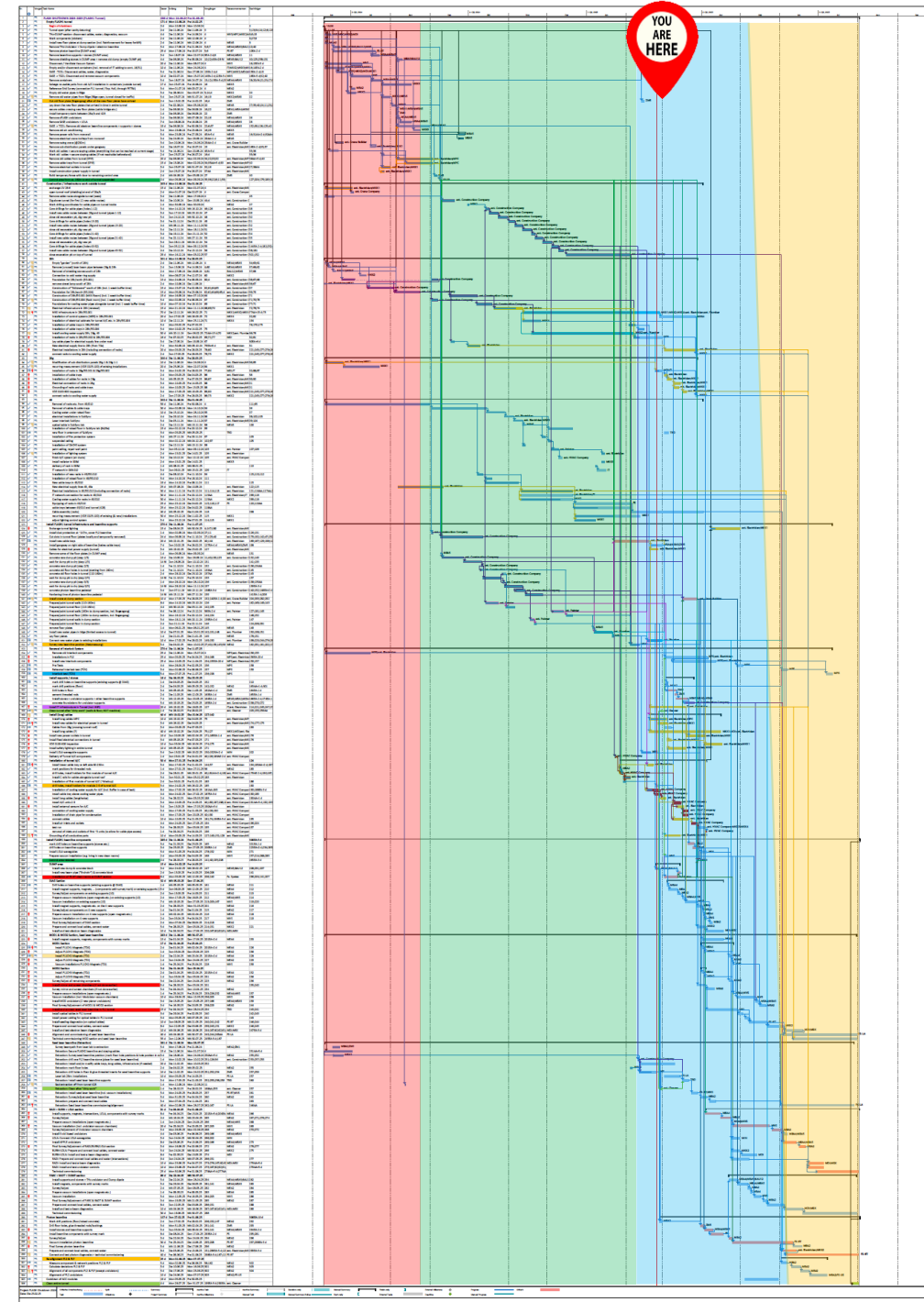


# Update: Shutdown schedule

10.06.2024 – 03.08.2025

- Rough overview: 4 phases
  - 1) **Dismantling/removal** (until ~September 2024) ✓
  - 2) **Construction work** (until ~~~New year~~) **Beginning of February!**
  - 3) **Assembly/installation** (until ~~~May 2025~~) **~June 2025!**
  - 4) **Commissioning** (until **03.08.!**)
- Due to some unforeseen circumstances\*, we are slightly behind on the progress as it was planned last year.
- Some tasks have been parallelized, some time estimates have been slightly shortened → end date is still doable.
- Schedule published at XWiki (current version 25.02.25):
  - FLASH2020+ project → Project Pillars → Infrastructure → Schedule (Shutdown 2024/2025)
  - <https://xwiki.desy.de/xwiki/short/7e569>
- Constructive input, detailing etc. always welcome!

\* 3 x surprise concrete, surprise water, weather, contractors, ...

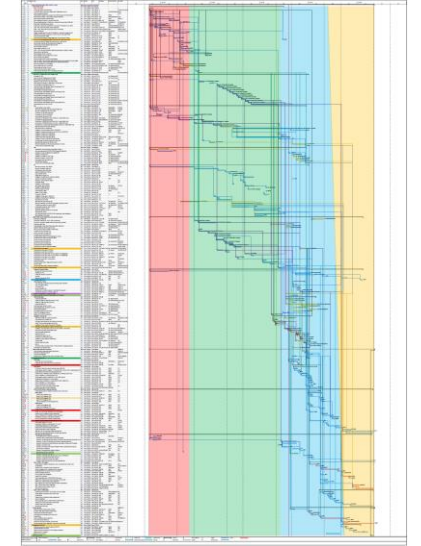




# Update: Shutdown schedule

## Where are we, and what will happen in the next weeks?

- Construction phase is finished, we are now in the assembly/installation phase.
  - To be more precise: the installation of the actual machine itself will start soon; Christo will tell you about that.
- Next week:
  - Marking of all floor holes in tunnel & on top of remaining stones (@DIAG)
  - Drilling of floor holes on FS ridge (start)
  - Cable installation ongoing
  - Clean room system (FS) will be installed in dump section
  - Racks will be set up in 28g
  - Electrical power & light in 28h
- After that:
  - Drilling of remaining floor holes
  - Concrete block of last section of vacuum beamline (“tailpipe”) will be positioned
  - Stones, supports etc. will be set up
  - Installation of remaining a/c units
  - cw12/13: installation of crane in dump section
  - ...



## Contact

**DESY.** Deutsches  
Elektronen-Synchrotron

[www.desy.de](http://www.desy.de)

Olaf Rasmussen  
WP I1 – Infrastructure Tunnel / I-Pillar  
[olaf.rasmussen@desy.de](mailto:olaf.rasmussen@desy.de)  
+49 40 8998 (9)2324