



### **BDF Target WP Planning**

1st Beam Dump Facility (BDF) Targetry Systems Advisory Committee (TSAC) 4<sup>th</sup> – 6<sup>th</sup> March 2025

Rui F. Ximenes on behalf of WP3 & HI-ECN3 Project team

04/03/2025



# Take-home objectives of this talk

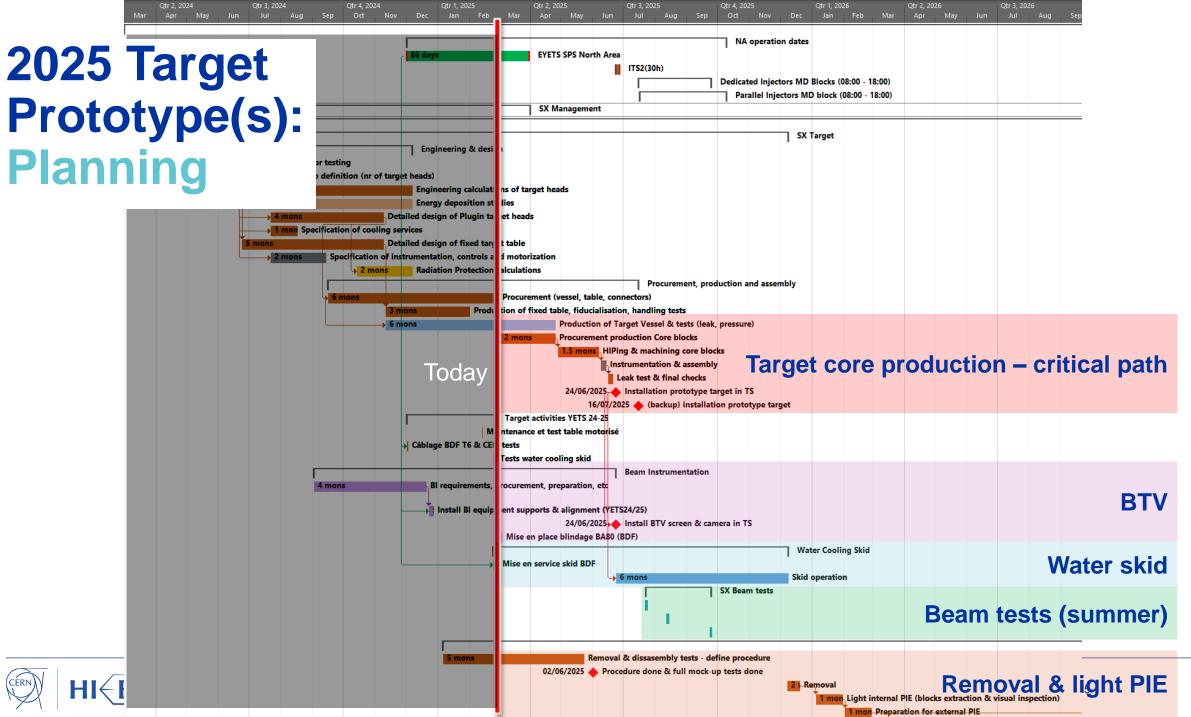
- □ 2025 Prototype Target planning recap what is critical
- □ 2026 Prototype Target planning planning & challenging aspects of installation
- ☐ Final Target project planning- What, when and how decisions need to be made?



# 2025 Prototype(s)

**Planning** 





#### 2025 Prototype Target(s) - Status

#### **Planning dates**

- Fixed SX setup refurbished & re-cabled done
- Water skid re-commissioning ongoing
- Target table re-used and adapted almost done
- BTV setup preparation end YETS24/45
- Pre-alignment ongoing
- Target vessel in production April
- Core blocks procurement now
- Core blocks manufacturing ~May
- Instrumentation & assembly June
- Target and BTV installation 24<sup>th</sup> of June
- Installation backup 16<sup>th</sup> of July
- Beam Tests MDs 23/7, 13/8, 24/9
- Removal and "light" inspection YETS25/26

Planning criticality: OK, Critical, Very Critical



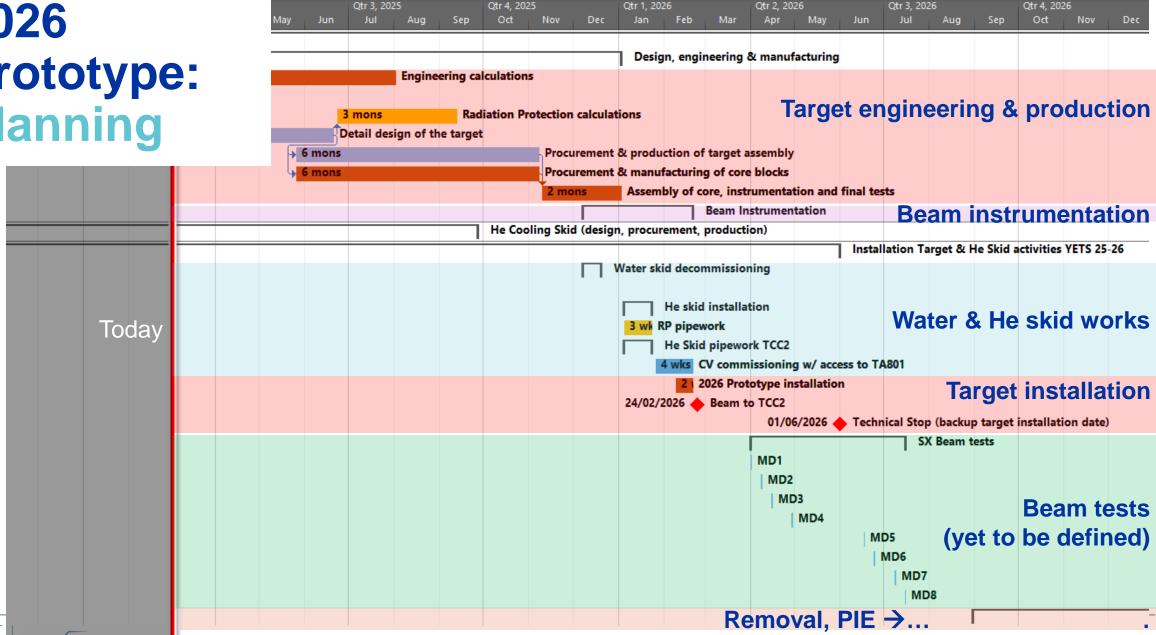


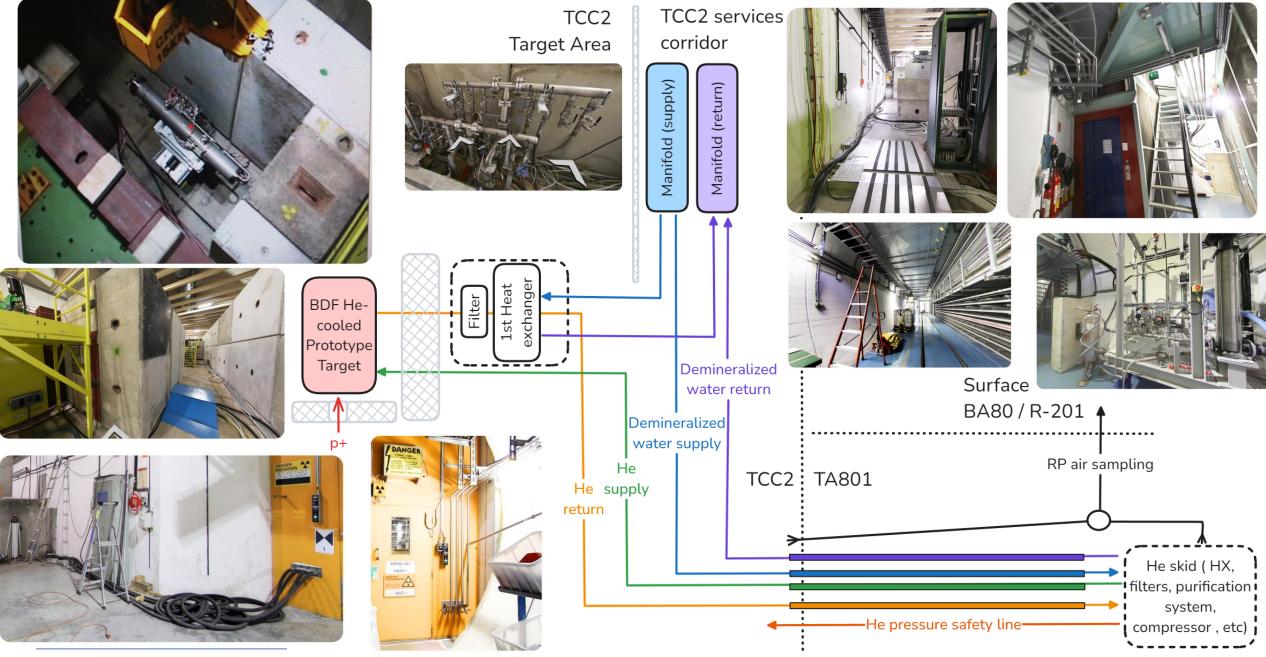
# 2026 Prototype

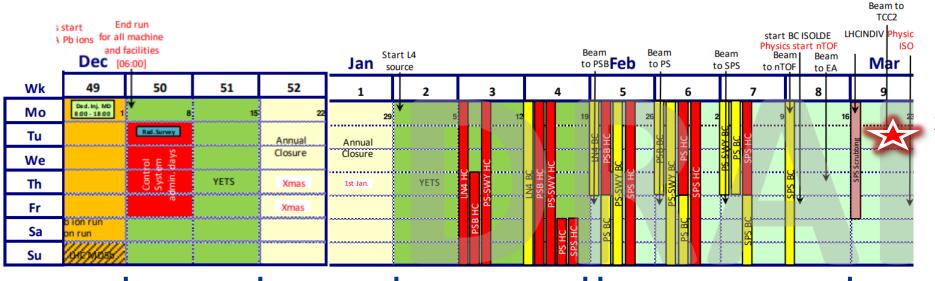
**Planning** 



### 2026 **Prototype: Planning**





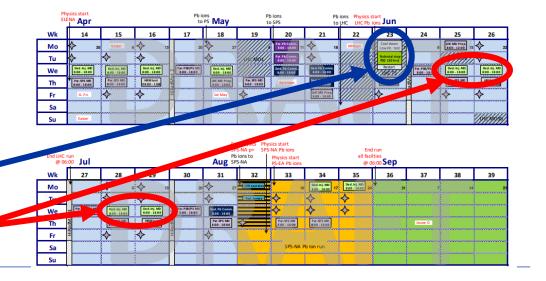


24<sup>th</sup> of February: Beam to TCC2

- Removal of 2025 Targets
- Pipes Flushing
- Water skid decommissioning

- New He skid installation
- New pipe work installation (partially done already)
- Installation components in TCC2
- Racks installation & cabling
- Latest 2026 Target installation
- BTV installation
  - MDs beam tests

- He skid commissioning w/ access TA801
- Target + BTV installation (tentative)



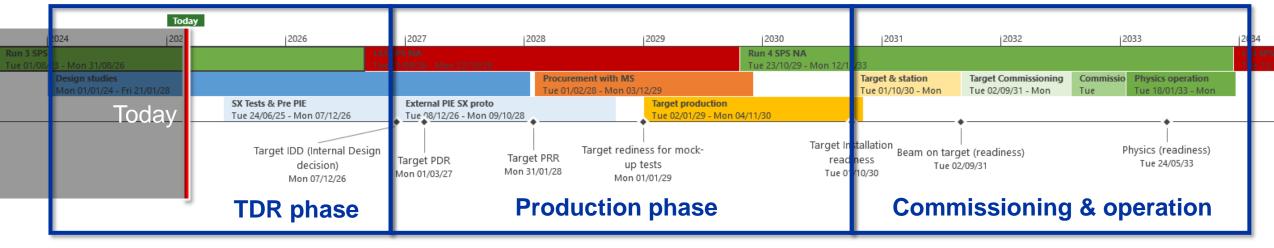


# **Final Target**

**Global (Target) Planning** 



### Final Target system planning



#### TDR phase (main activities) - (2024 - end 2026)

- 1) Target (& BIDs) conceptual design followed by detailed design
- 2) Prototype(s) Target Design, construction and beam tests
- 3) Material studies, R&D

#### **Production phase** – (2027 – 2031)

- 1) Detailed Design phase
- 2) Procurement & production of components and systems
- 3) Tests/dry-run, installation activities
- 4) Material tests/PIEs





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