



WP6a planning evolution

- **Delivery to STRING : status & planning**
- **Series production infrastructure**

Y. Leclercq on behalf of WP6a



STRING : Readiness for delivery and installation

Working Organization

- Weekly meeting WP16-WP6a to coordinate WP6a activities on site
- Baseline in 7 steps presented at STRING Day Nov.23
- Final detailed design completed Q1-2024

WP6a Scope of Work

- Transport of System (with EN-HE)
- Physical installation of system
- Design, procurement and qualification of tooling & interfaces
- Definition of procedures & QC/QA
- Integration of WP6a system into STRING

Spooling @ F2

→ Transfer to STRING area

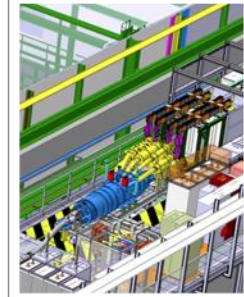
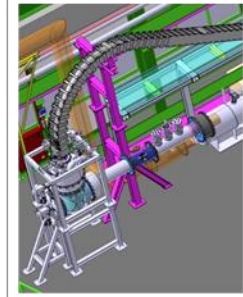
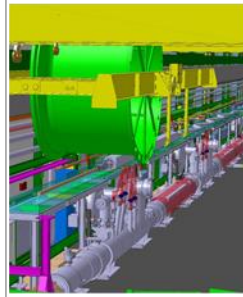
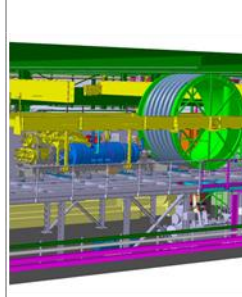
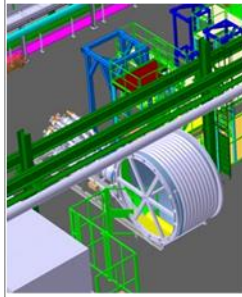
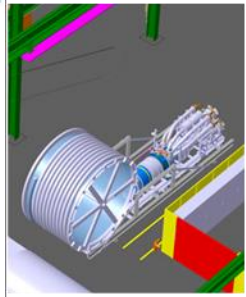
→ Lift on Platform

→ Unspool SCLink

→ SCLink forming

→ DFX assembly

→ Interfaces connection



STRING : Achievements since January for WP6a

- Intense WP6a preparation since Proto system is connected to F2 test bench
- Design, integration, procurement & qualification of tooling & interfaces
- No showstoppers wrt parts and tooling availability for installation

Key Tooling availability & qualification

Spooler	Refurbished - HSE qualified	✓
Spool	Manufacturing at Okursoy (TR)	End June
Cable chain	Optimized	✓
SCLink support	Stored in SM18	✓
DFX support	Manufacturing at CERN	End June
Leak test tool Post forming	Manufacturing at Cryoworld	End June

Lifting frame	Dummy test completed (with EN-HE)	✓
SCLink trolleys	Stored in 927	✓
IP2X cage	Design starting	Oct. 24

Parts & interface components

DFHX+SCLink	Qualified at F2 – SM18 Refurbishment in progress	Mid June
DFX#2	CE marked - Shipping in progress	Mid May
Cryogenic lines	Various procurement in progress	End July

Trials, qualification of tooling Q1-2024

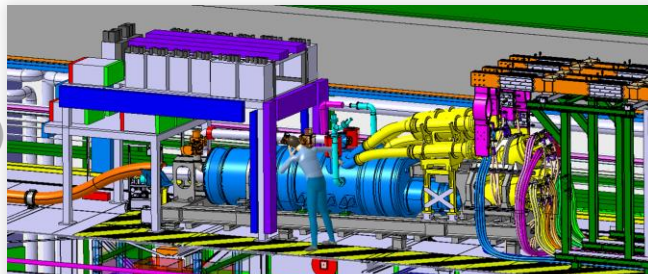


DFX2 & SCLink infrastructure fro STRING

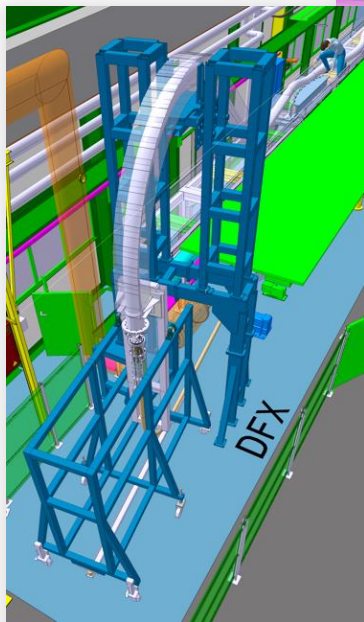
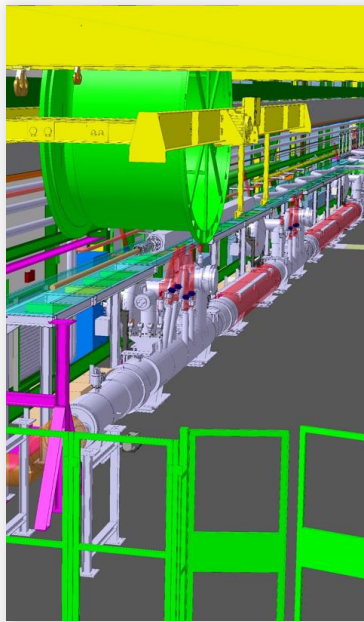
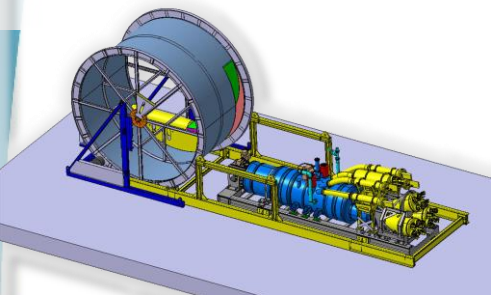


STRING : Installation activities under WP6a supervision

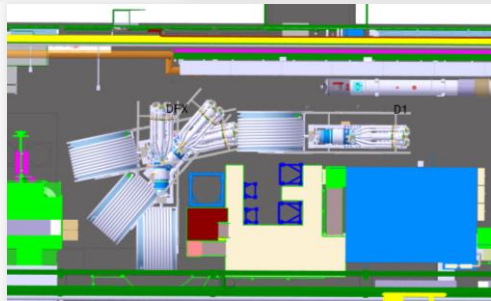
- Mar.24 : 18 kA flexible busbars installation
- Jun.24 : Spooling of SCLink+DFHX @ F2
- Jun.24 : Transfer of SCLink+DFHX to STRING area (with EN-HE)
- Jul.24 : SCLink unspool and forming (with EN-HE)
- Jul.24 : DFHX vertical assembly
- Jul.24 : DFHX final position
- 2025: DFHX horizontal connection



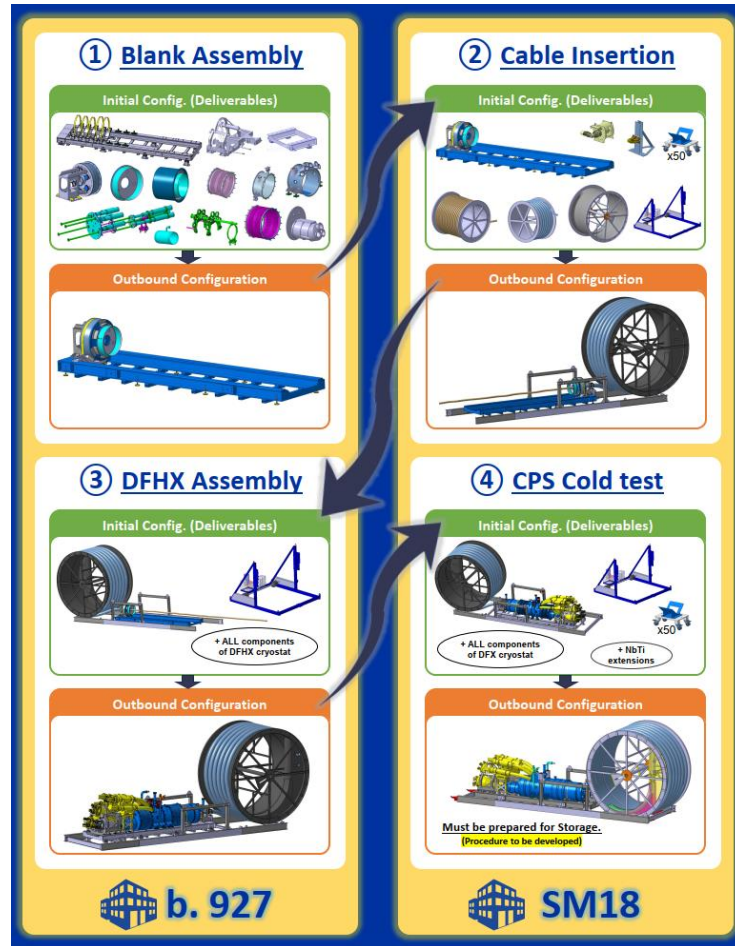
DFHX interfaces + proximity equipment



Vertical assembly of DFX



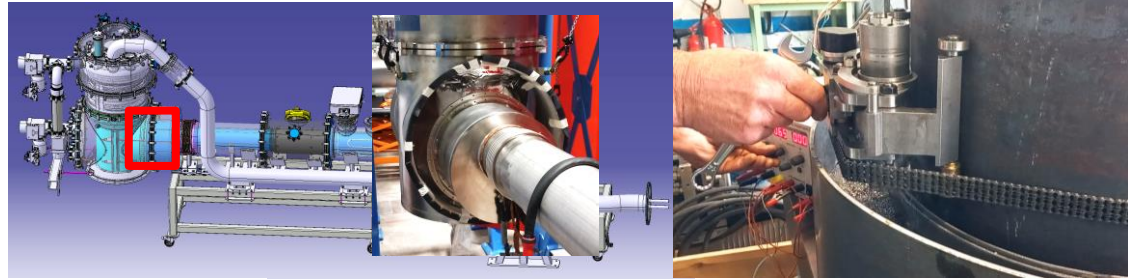
Cold Powering Systems series production



Cold Powering Systems series production

Achievements since January 24

- F2 DFX disassembly ✓
 - 3 specific welds cutting machines (with EN-MME)
- B927 infrastructure ✓
 - New door, fences
 - Upgraded HTS cabling machine
 - Logistics for DFH assemblies



Disassembly tooling

Production for series since January

- DFHX#2 blank assembly ✓
- IFS capillaries for DF in progress
- Procurement : no showstoppers
 - Transport structures
 - Series ancillaries (with EN-MME)

DFH ancillaries



Upgraded cabling machine in 927



DFHX#2 global leak test