



# DFM transport & installation brainstorming

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***WP6a : integration meeting #3***

# DFM installation

Each IP1 and IP5 sides equipped with 2 cold powering chains of cryostats

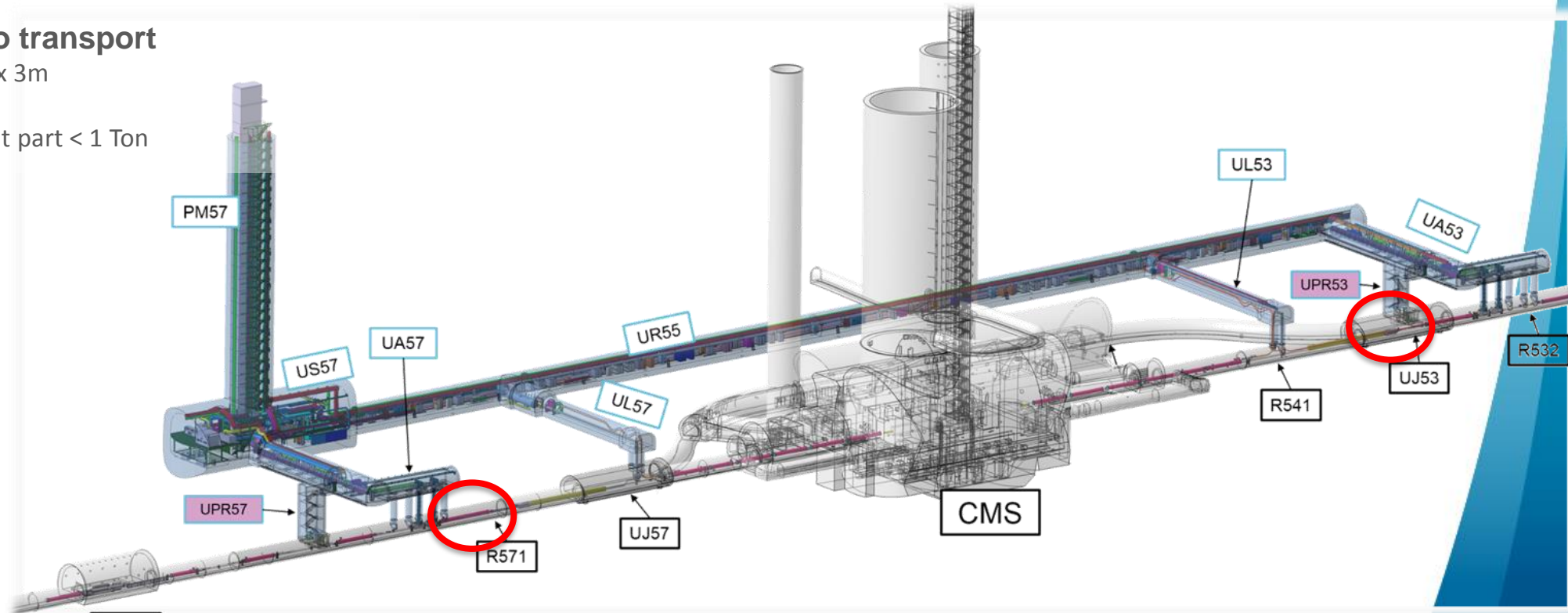
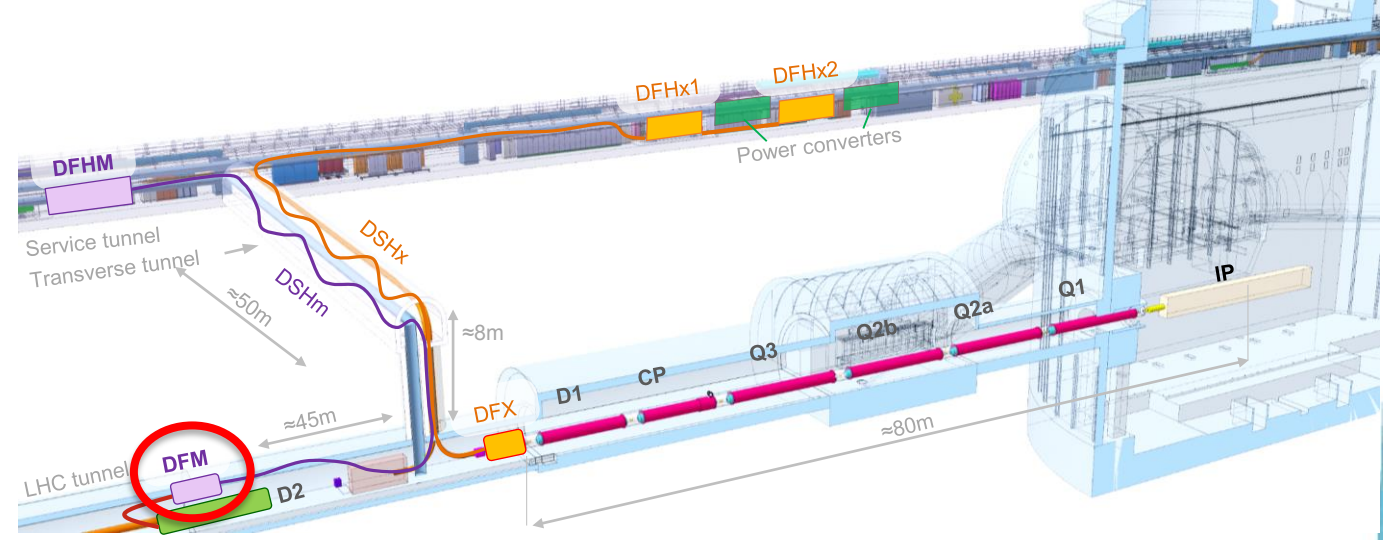
- Triplet insertion : DFHx – SC Link (DSH) – DFX
- Matching sections : DFHm – SC Link - DFM

DFX/DFM basic functions:

- Electrical interface between SC Link and superconducting magnets
- Supply cryogenics to the SCLink

Total : 4 DFM boxes to install

- Weight < 1 Tons
- Biggest component to transport
  - Pre-assembly :  $\varnothing 1\text{m} \times 3\text{m}$
  - D2-DFM link :
  - Heaviest independent part < 1 Ton



# DFM installation overview

## DFM location

- Close to D2 for electrical connection
- Aligned with SCLink to ensure interface
- Provide access for in situ electrical connections
- Match with various reservations
- ➔ Above D2

Assembled DFM dimensions:  $\leq \text{Ø}1.5 \text{ m} \times 5 \text{ m}$

## Proposed assembly sequence:

- Install D2
- Install Link D2-DFM
- Install DFM
- Connect SCLink & DFM

## Transport

1. D2
2. D2-DFM link (up to 6m long)
3. DFM pre-assembled ( $\text{Ø}1 \text{ m} \times 3 \text{ m}$ )
4. SCLink (DSHm)

Transport path to be discussed

