

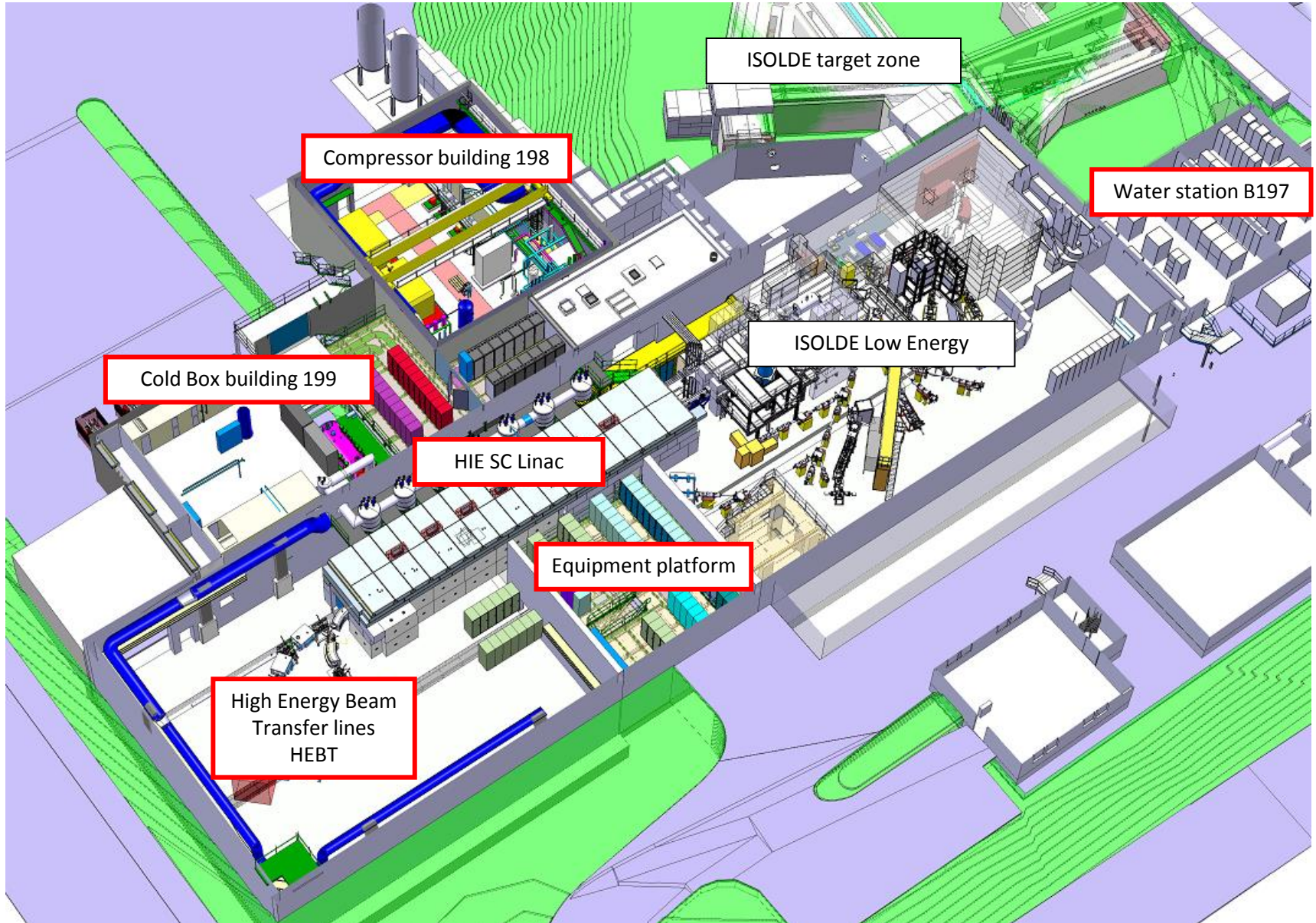


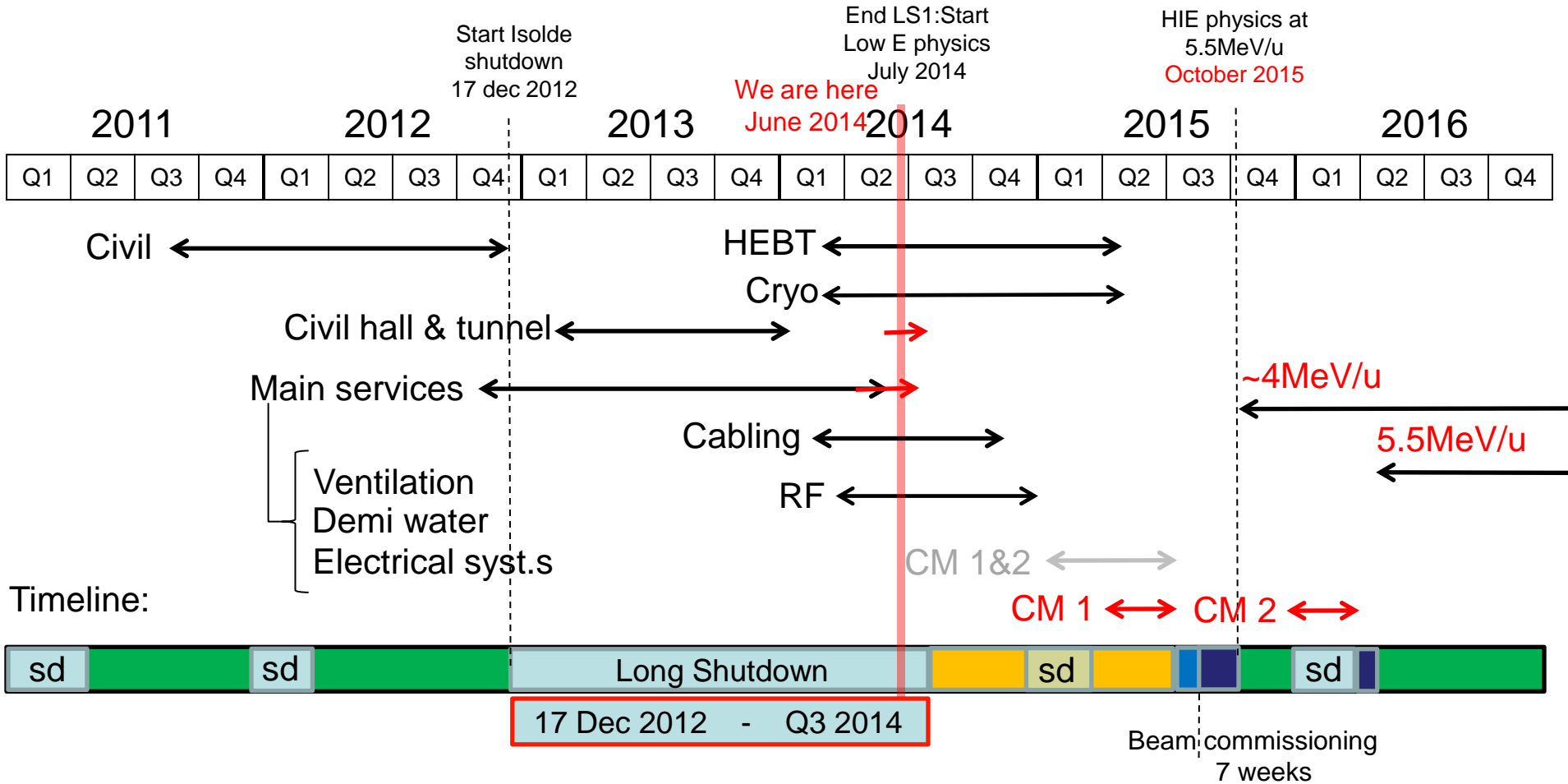
Status of the works at the ISOLDE hall (and service buildings)

70th ISCC meeting, CERN, 24 June 2014

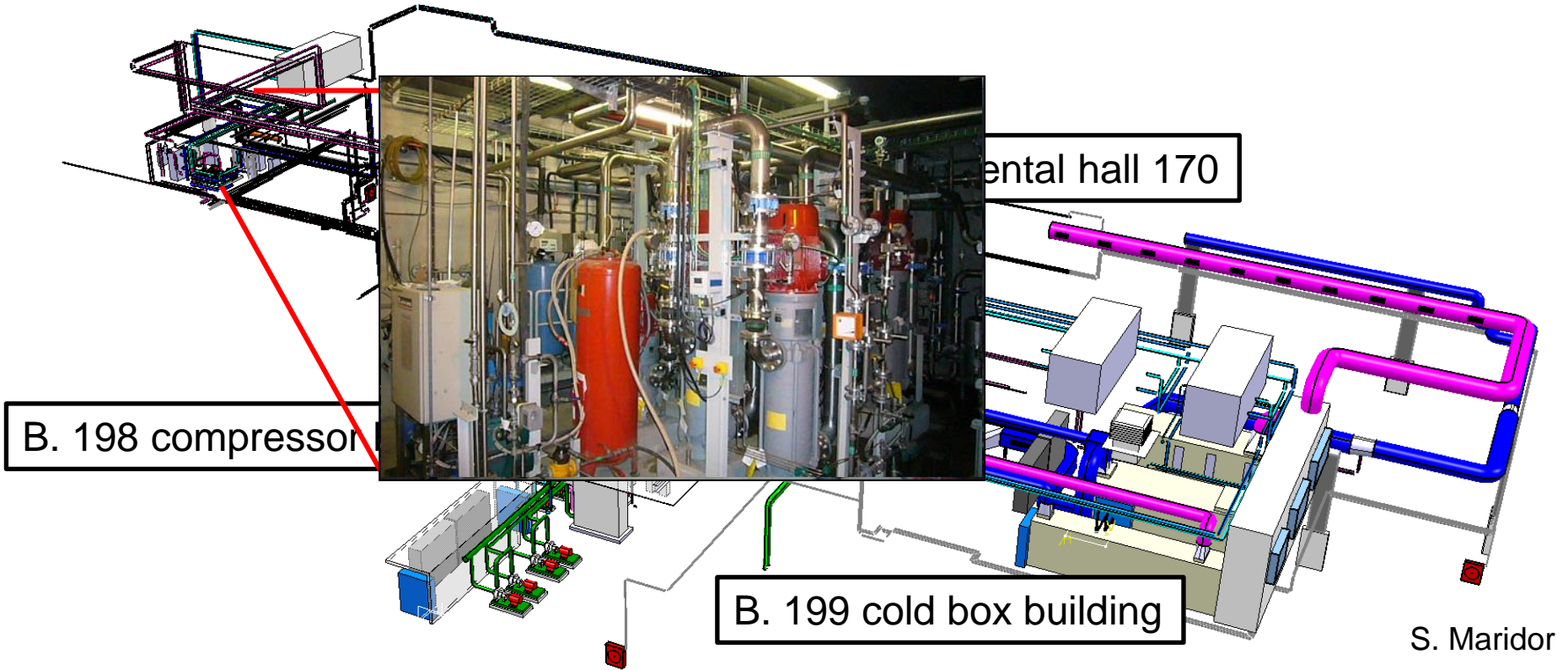
Erwin Siesling for the HIE ISOLDE integration team

- **Status Report HIE Installation June 2014:**
 - Progress since the last ISCC meeting in March '14
 - What to expect for this year
 - Have there been or are there any (new) delays
 - Are we on track with regard to the planning



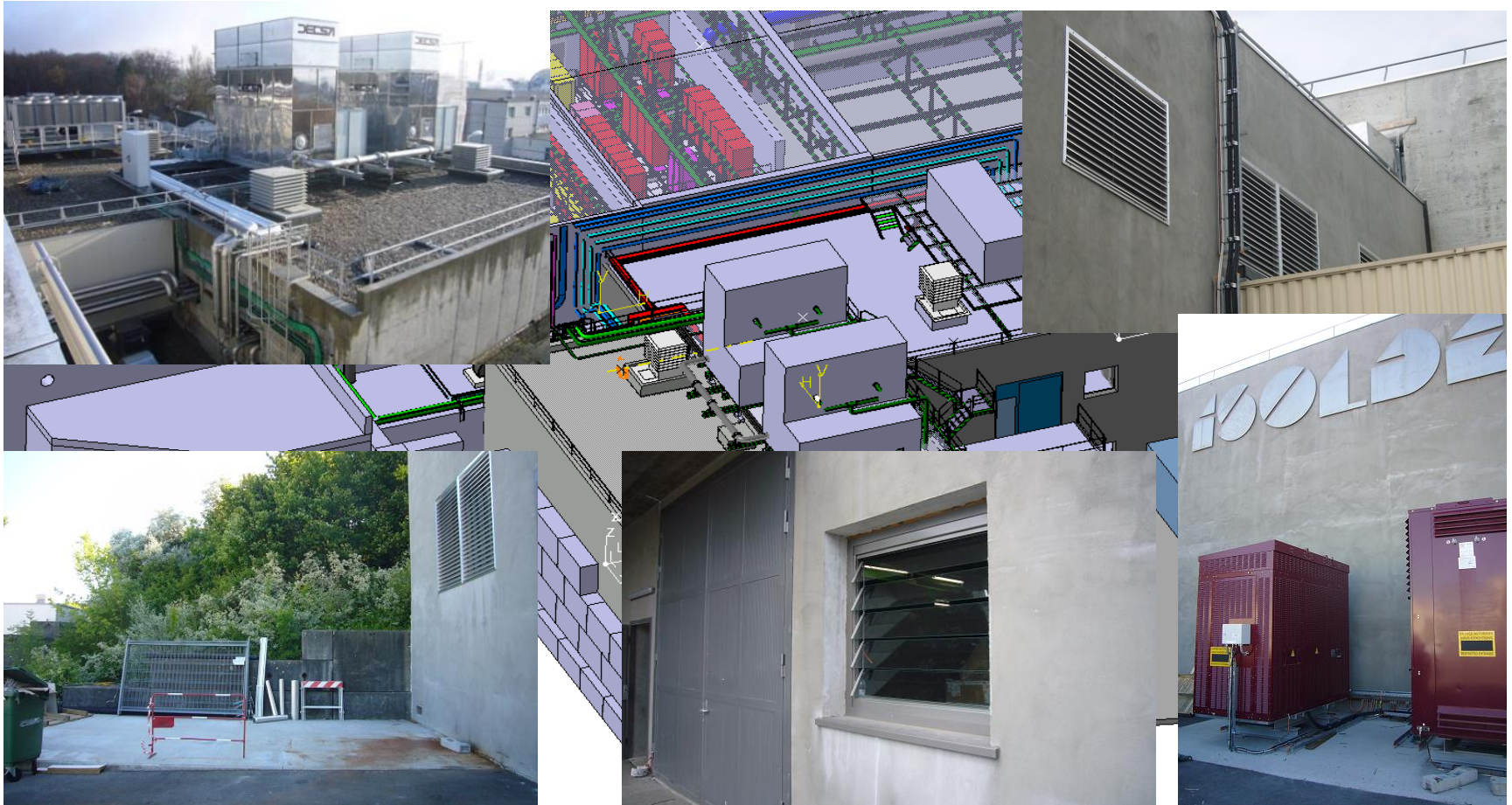


- shutdown
- Isolde Ops
- HIE installations and tests (Isolde normal operations)
- Machine Check-Out (Isolde normal operations)
- Beam Commissioning (Isolde normal operations)



ISOLDE water station:

Tests and commissioning for 27C demi water finished – water cooling system operational since April. In time for ISOLDE Low Energy cold check-out (ongoing) and start-up.



Cooling & ventilation:

Tubing finished. Isolation of demineralized and chilled water tubes is finished. Air duct and ventilation covers installed. Cooling towers test done.

Cryo: concrete base equalized and smoothed, ready for He tanks (this week).

EL systems: 3.3kV transfo arrived and mounted, cabling ongoing.



Cooling & Ventilation:

CV water and HVAC installation finished. Ethernet connections done. Tests demi water done. Water treatment cabin done. Tubes isolation finished. Piping outer wall passages closed and isolated (acoustics).

Cryo System: Compressor skit/frame in place. Adsorber in place. Piping ongoing.

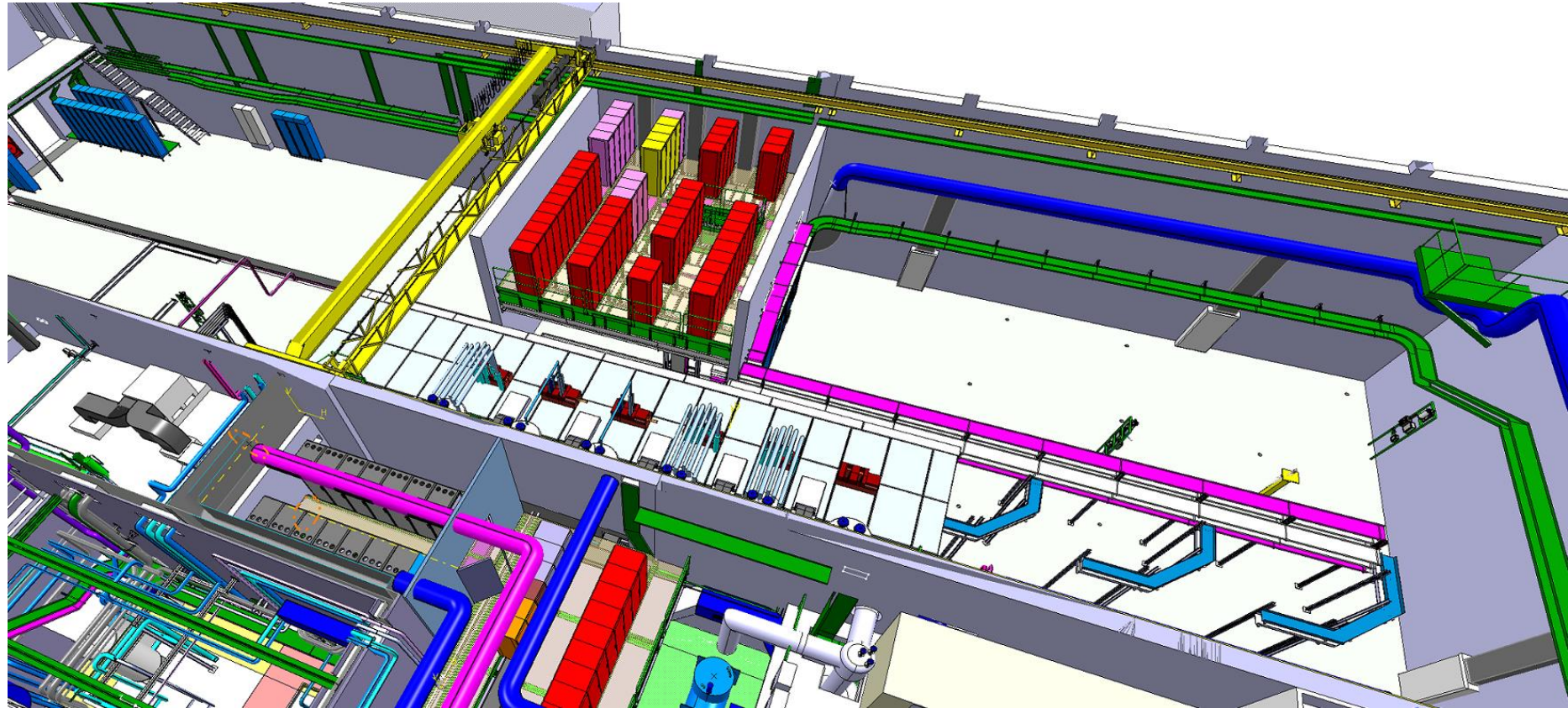


EL and CV systems:

Cabling ongoing. HVAC instrumentation cabling finishing. HVAC tubing and isolation done. Final tests to be carried out.

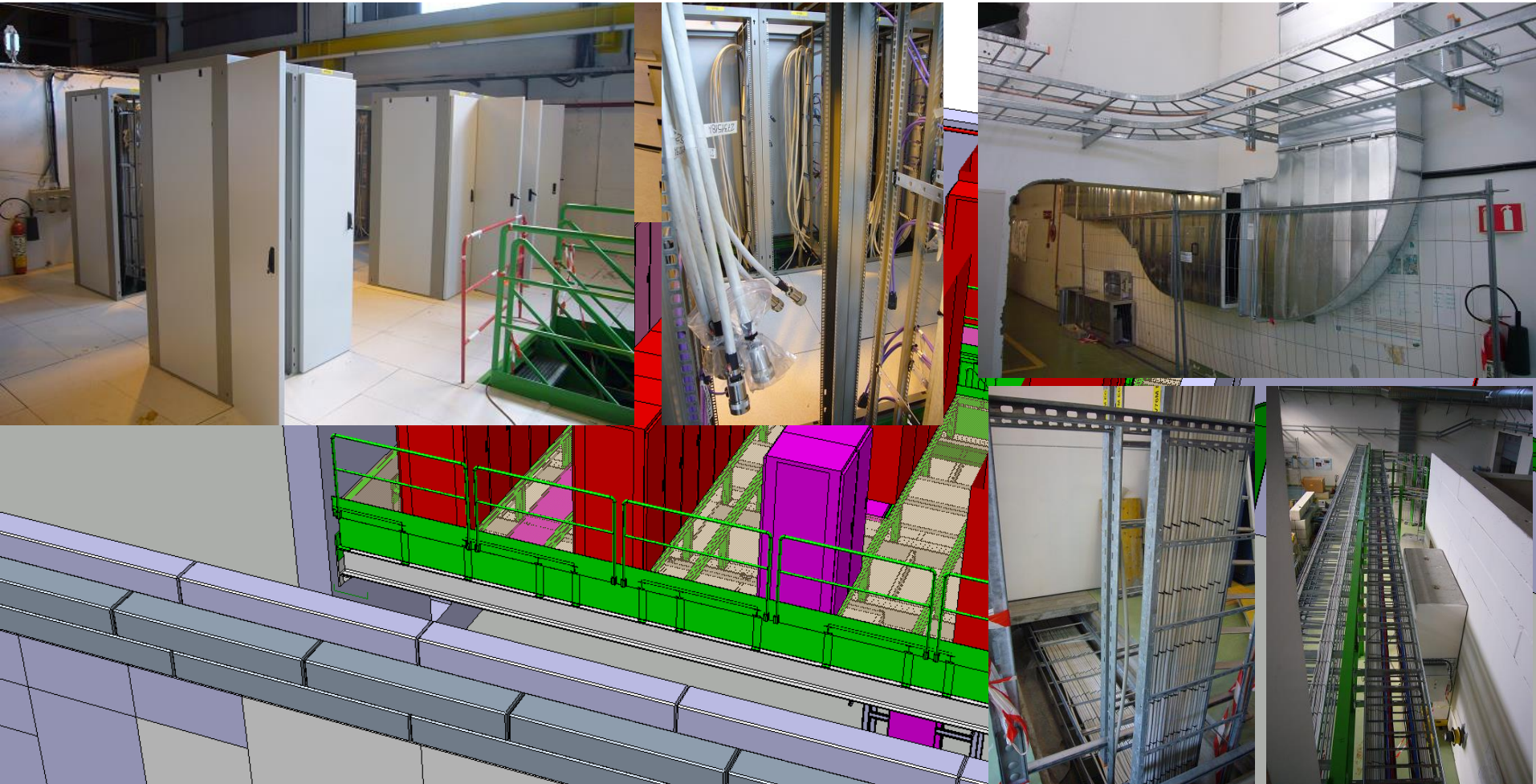
RF amplifier cooling circuit: Tubes in place. LLRF airducts correction done (contractor).

RF systems and racks: LLRF racks in place. Metal structure for the amplifier racks in place. Amplifier racks, Cryo racks and Ethernet racks in place. Cabling ongoing.



S. Maridor

ISOLDE hall 170:
Civil engineering, metal structures, cooling and ventilation, cabling and equipment installation



Rack platform:

Racks WIC, VAC installed. Cable trays all in place. Controls, vacuum and interlock cabling to HEFT lines done.

Rack platform specific ventilation air ducts being installed.

Equipment (EPC, BI, WIC) to arrive as of September.



HEBT cable trays all installed, cabling ongoing (controls and vacuum cabling done)
 Alu and concrete elements supports in place and shimmed (bolts to be changed)
 Water cooling and vacuum infrastructure to be in place before end Sept (supposed to start early June. Contractor issue followed up. Extended contract in place.)



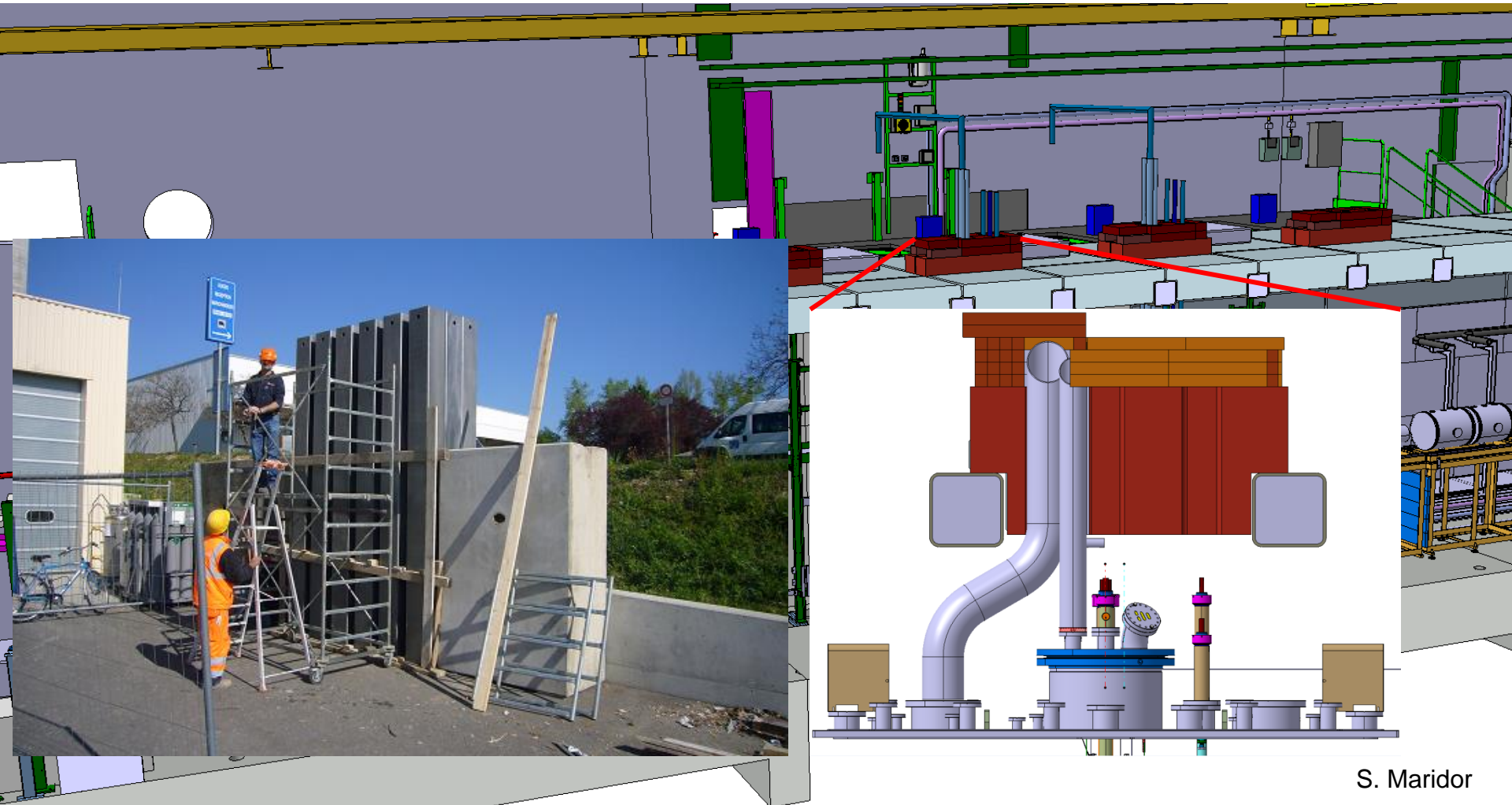
REX existing tubing adapted.

Walls painted, end shielding closed with lead wall in place, elements supports in tunnel ready for mounting (when infrastructure is finished).

Inside metal structure in place including cable trays. Cabling advancing.



Jumper boxes platform installed. Cable trays underneath in place. Tunnel vacuum and water infrastructure to be in place before end Sept (supposed to start early June. Contractor issue followed up. Extended contract in place.)

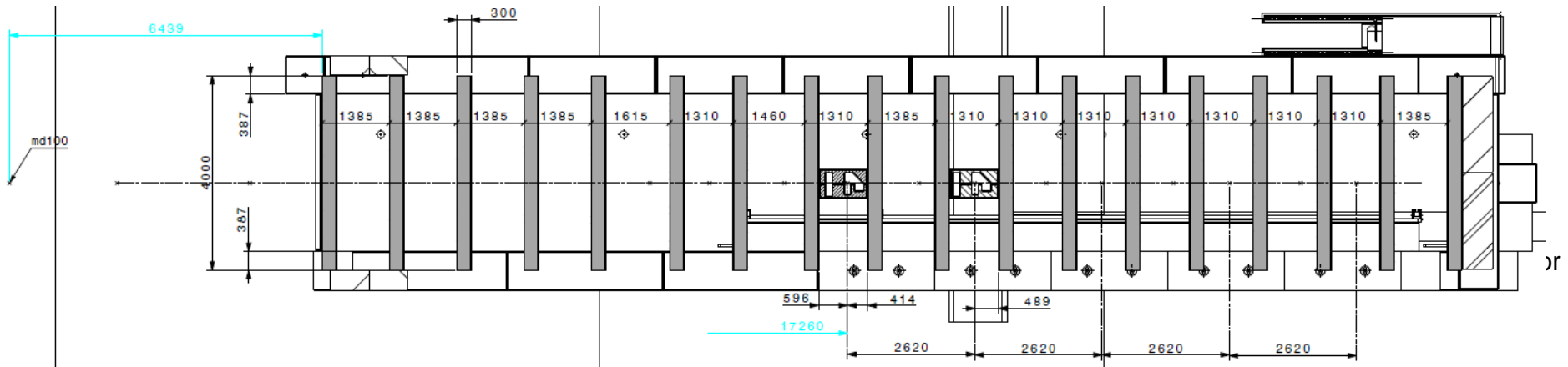
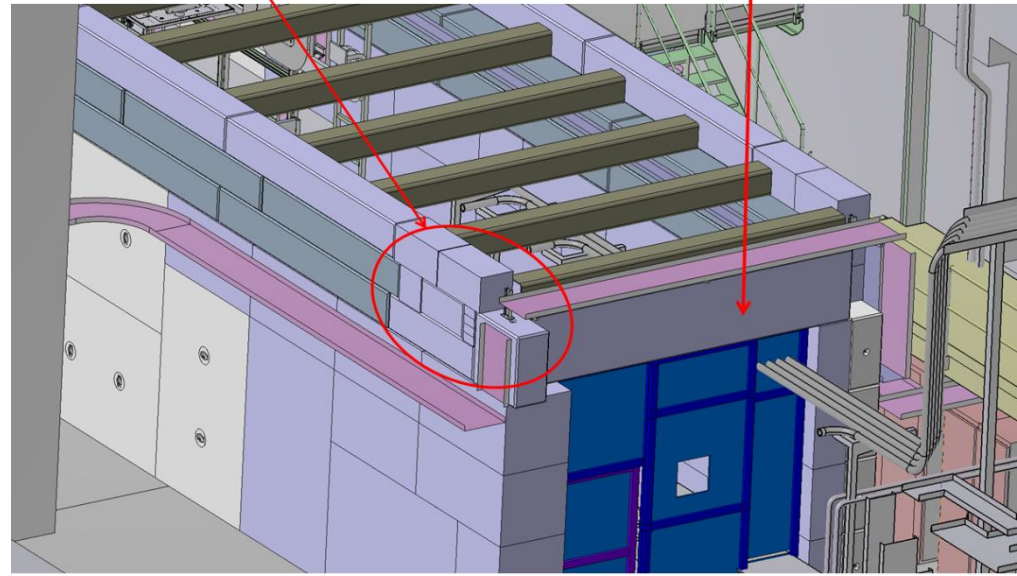
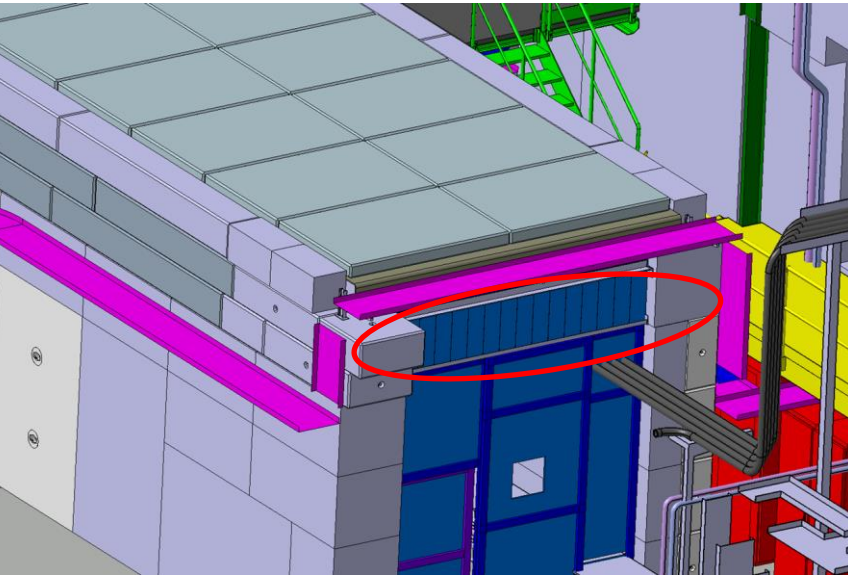


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Chimney design validated (welding then pouring with concrete). Ready for production (workshop/contractor).
 Roof beams filled with concrete.
 Awaiting concrete roof parts for fitting tests (end June)

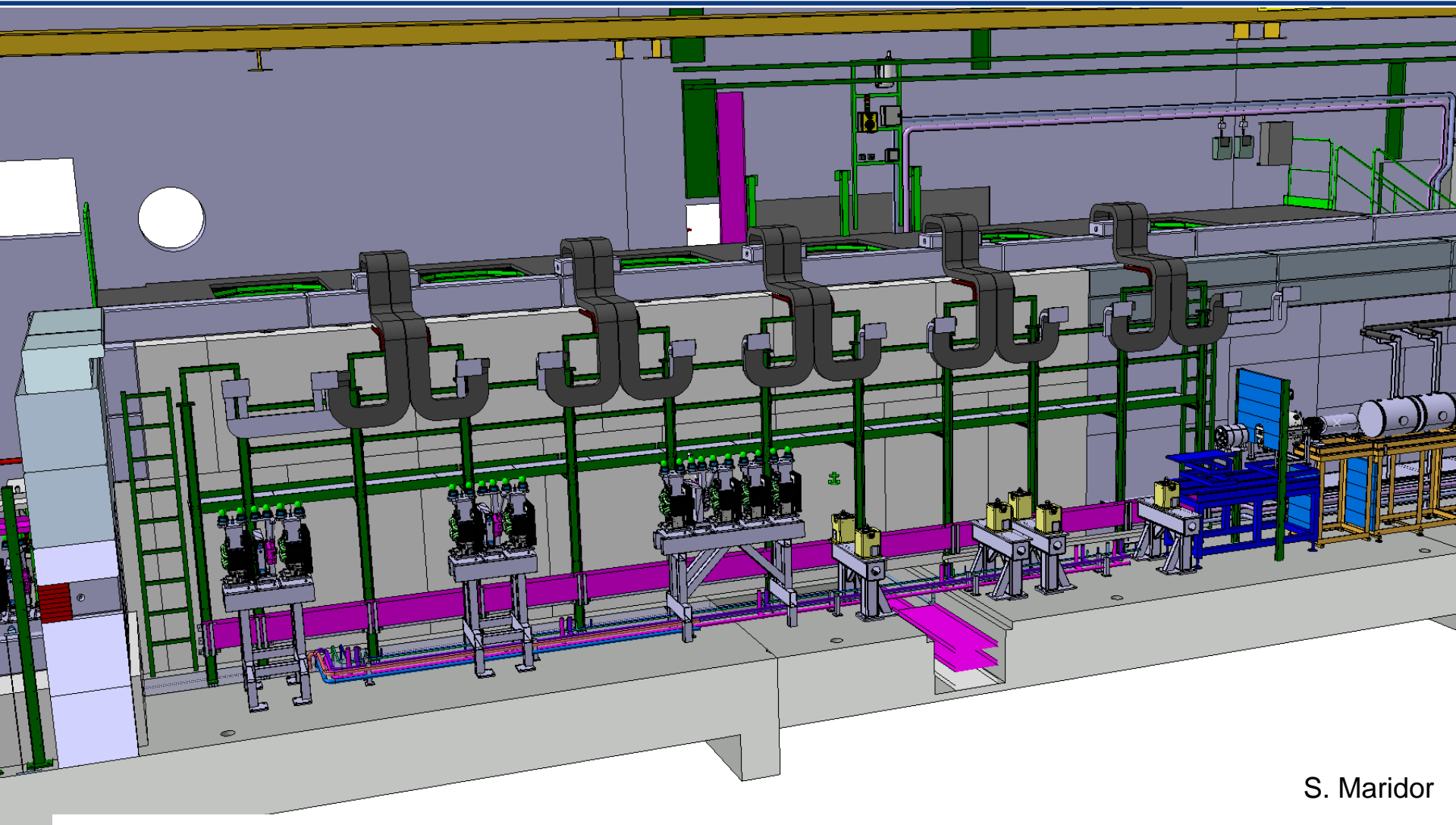
MODIFICATION OF BLOCS

ADD CONCRETE BEAM 80 X40 X400



Simplified solution for upstream shielding wall being validated.

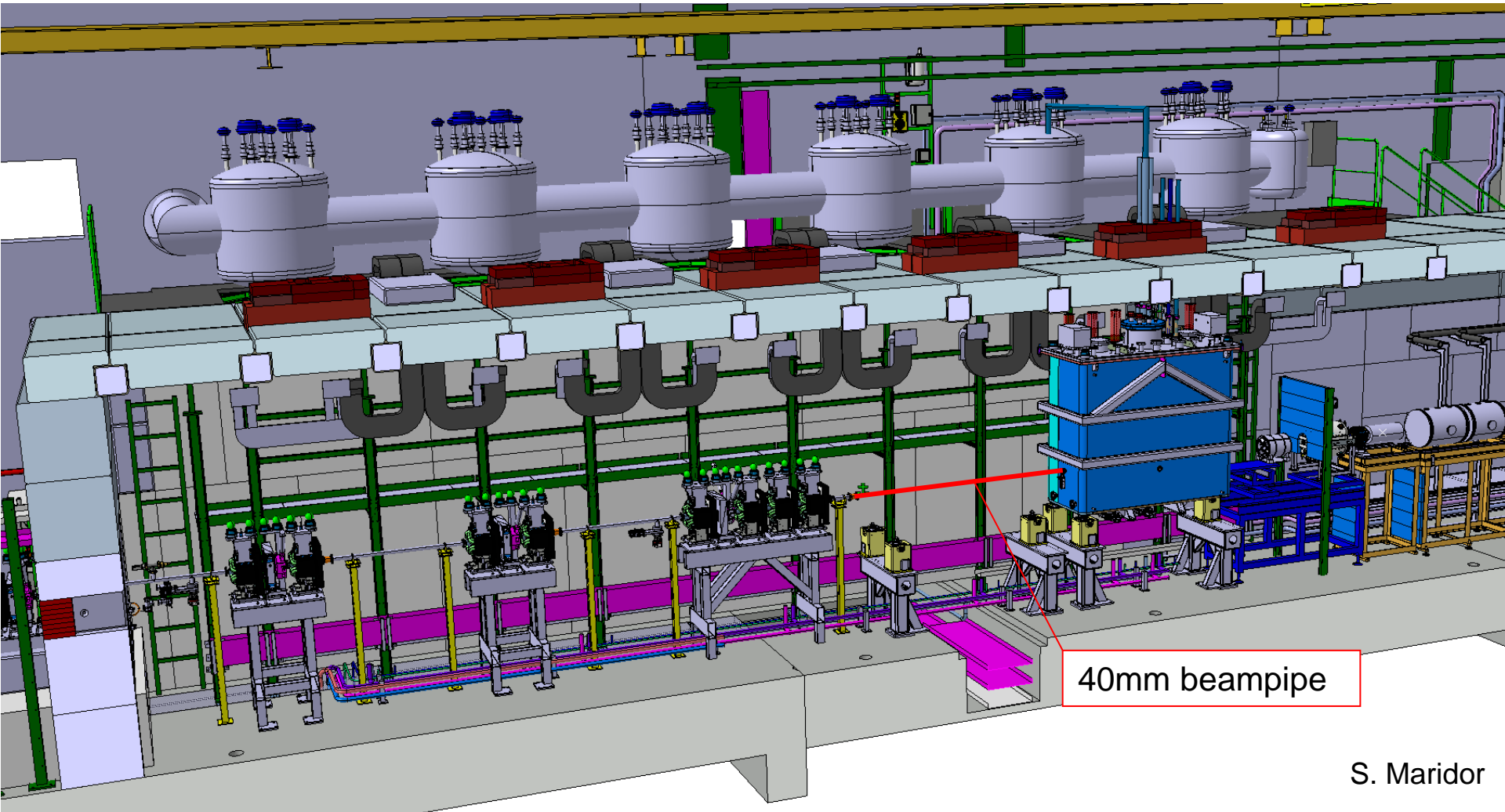
Tracing of the carrying beams and adjustment of downstream tunnel wall end of June. 15



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Linac elements & CM supports in tunnel in place – by September (as soon as cabling and tubing infrastructure is in place)

RF flexwell cabling: Oct/Nov



S. Maridor

Cryo Cold Line & Jumper Boxes installation: Sept 2014 – Jan 2015

Cryo Module 1 installation: April – June 2015

Scenario: Physics at $\sim 4\text{MeV/u}$ with 1 CM as of October 2015

- **Status Report HIE Installation June 2014:**
 - Progress since the last IAP meeting in April 2014
Installation has continued according to plan and there is a steady progress
 - What to expect for this year
High activity in the hall and service buildings will continue
Challenge: Having ISOLDE low energy physics in parallel
Access: Separated experiments (users) and construction zones (talk A.P. Bernardes)
 - Have there been or are there any delays
Yes. There are some delays on several co-activities that are not critical.
For for the tubing infrastructure (water and vacuum) in the tunnel and along the HEBT lines the work is starting later than foreseen but will be ready within margin.
Infrastructure needs to be in place by the end of September.
 - Are we on track with regard to the planning
Yes, we are on track
and the start of the ISOLDE low energy physics foreseen for 2014 will not be hampered by the HIE ISOLDE installation works

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