



HL-LHC SM-18 Planning TE-MS C Follow up Meeting

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13/05/2024

Outline

- Key Progress since the meeting in January 2024
- Updated WP6a schedule
- Conclusions

Key Progress since last meeting in January (1/2)

Progress pertinent to upcoming series tests

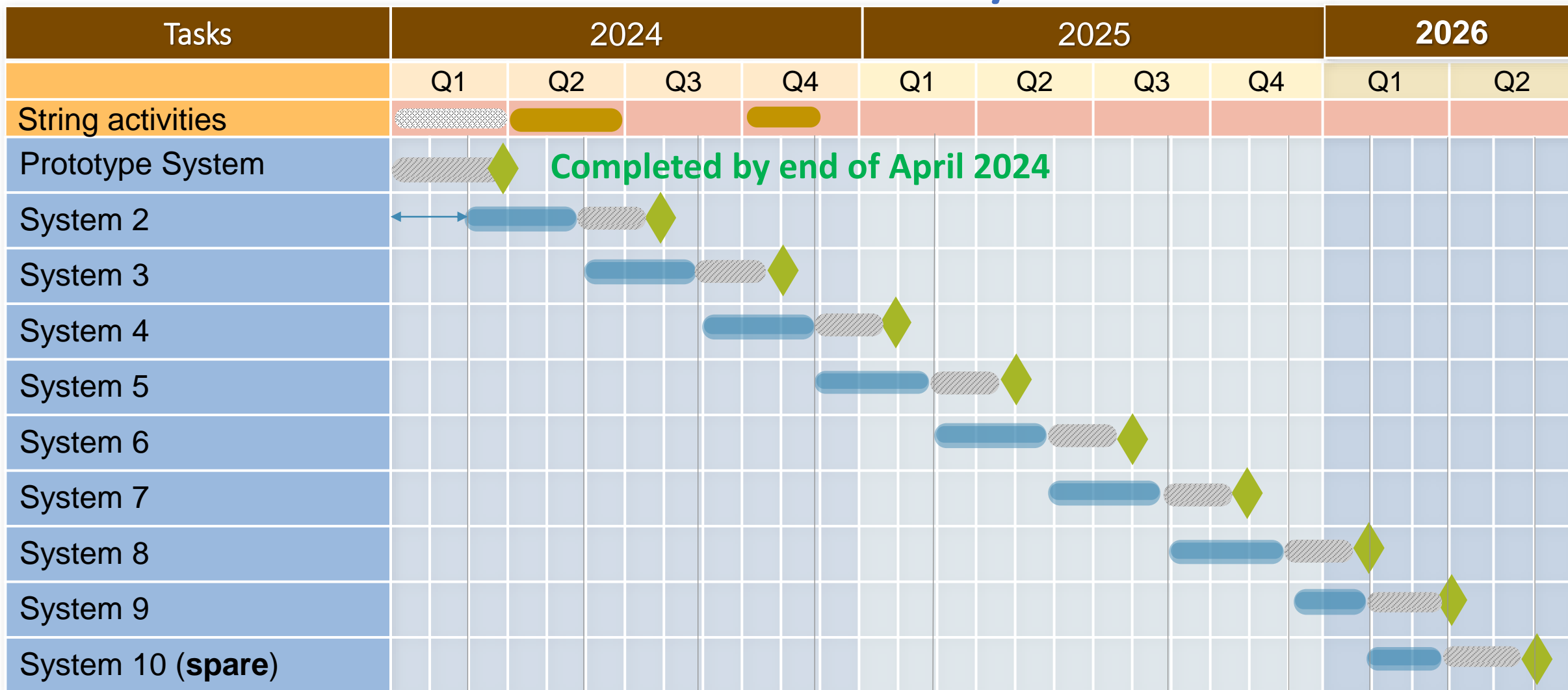
- **Prepared assembly hall in building 927**
 - Increased height of entrance door; installed fences at the two access sides and implemented controlled access; cleaned, structured and equipped assembly zones. Completed assembly of second DHX in the dedicated area (as part of the QA activities)
- **Upgraded HTS cabling machine** operated in building 927 and launched cabling trial first and then first series cable. Fences protecting cabling machine still to be installed (request made) – not blocking
- Launched procurement of **full series of REBCO tape** (two procurements, at the end same supplier). Received first deliveries
 - Implemented series QA, e.g. elaboration of cabling map and implementation of cabling map and QA tests in the superconductors database

Key Progress since last meeting in January (2/2)

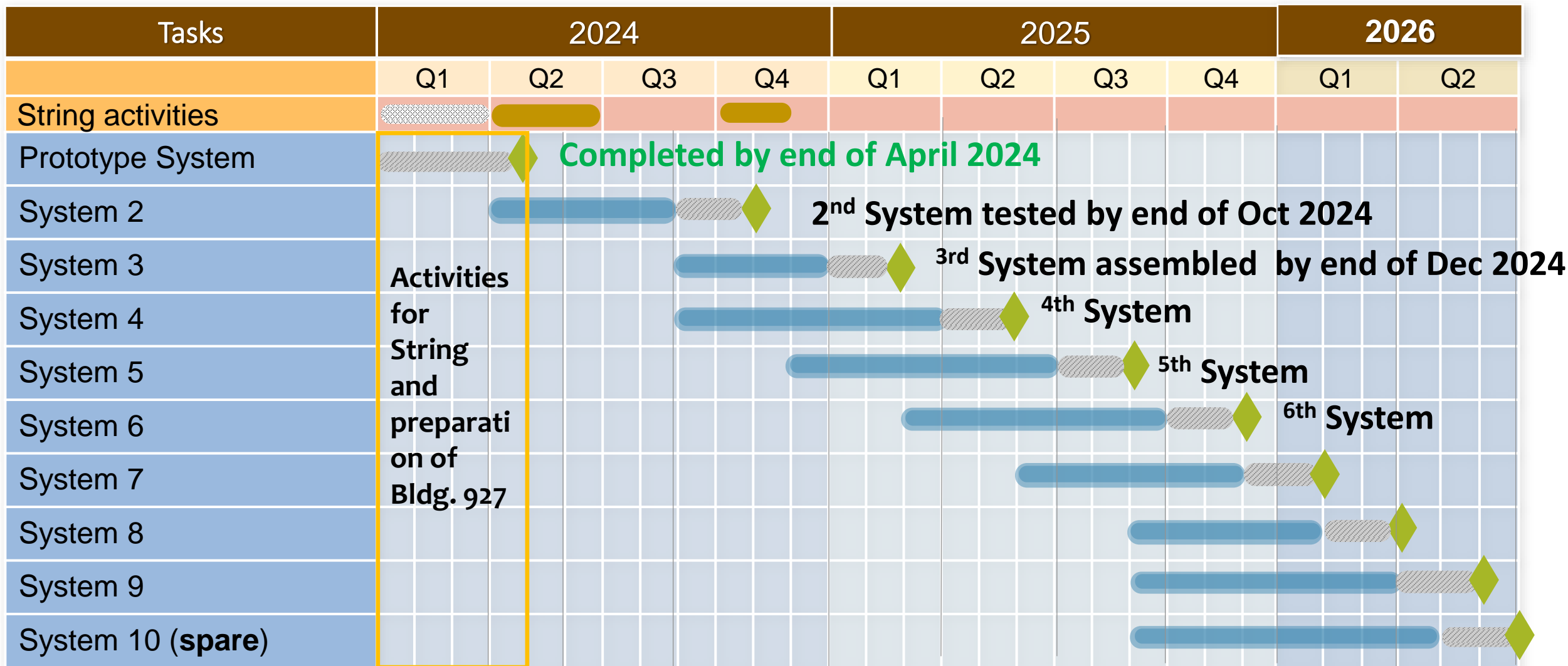
Progress pertinent to upcoming series tests

- MSC-HSD launched the request for **two TEMPs** and one **FSU**. One TEMP and one FSU operational in MSC-HSD (a second TEMP request will be made) . One TEMP request being prepared by MSC-CMI
- Completed at SOTON the **second series DFX** and being shipped (vertical part installed in the String in July 2024, horizontal part installed in the String in 2025)
- Several activities on the **String** transport/integration aspects (see presentation of Yann). This includes a first transport trial – of the spool – on the 3rd of May
- Successfully **qualified first Prototype System in the SM-18**. This is the System that will be installed in the String area (June 2024). Spool needed for the transportation of the Prototype String will undergo acceptance tests at the company on the first week of June (in the presence of M. Careil and L. Deparis)

Schedule in January 2024



Schedule in May 2024



- Assembly
- Test/SM18
- Cold Powering Systems tested
- Preparation for String
- Installation in String

Conclusions

- **Progress** on many fronts since the last meeting in January 2024
- **Key components** needed for the construction of the WP6a upcoming systems are **available** (DF, DFH, SC Links, instrumentation, mechanical and electrical components)
- There is a lot of work ahead of us – **experience with the Prototype System helps**. Systems for Matching Sections are smaller
- **Items on the critical path:**
 - Spool for installation of the Prototype System in the String (acceptance tests planned on the first week of June);
 - Qualification of the REBCO tape during cabling (change of supplier). Work on-going in these days