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Schedule management for large scale project: the example of HL-LHC at CERN

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The High Luminosity Large Hadron Collider (HL-LHC) project seeks to significantly enhance the performance of the LHC to deliver ten times more data to the LHC Experiments. The project relies on cutting-edge systems and technologies deployed in the new facilities constructed to the HL-LHC requisites and replacing large existing equipment and systems in the LHC tunnel. The project complexity lies in the production and installation of innovative systems with strong interdependencies.

A methodological schedule management approach is essential to ensure timely equipment delivery, anticipate potential risks and implement mitigation actions. This paper describes the schedule management aspects of the HL-LHC project, providing a robust framework adaptable to any large-scale project. It encompasses the management of the baseline changes, the monitoring of milestones, the planning and coordination of the new facilities installation, and the integration of the HL-LHC installations within the regular LHC maintenance program. Emphasizing the significance of key performance indicators (KPIs), the paper highlights the critical role of metrics as indicators of schedule robustness.

Footnotes

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Primary author: VERGARA FERNANDEZ, Estrella (European Organization for Nuclear Research)

Co-authors: BARBERAN MARIN, Maria (European Organization for Nuclear Research); BERNARDINI, Marzia (European Organization for Nuclear Research); FLEURY, Sarah (European Organization for Nuclear Research)

Presenter: FLEURY, Sarah (European Organization for Nuclear Research)

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