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Geodesy update

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Constructing the FCC tunnel, installing and aligning each component of the machine and the experiments at the designed location will be a challenging task relying notably on the accuracy and reliability of the geodetic infrastructure.

Over the past year, in collaboration with ETHZ, HEIG-VD, IGN and Swisstopo, progress has been made developing the new geodetic infrastructure for the FCC. Efforts were centred on the validation of the local geoid model and investigations on potential future improvement. In this context, the development of a gravity field close loop simulator has been initiated.

In the meantime, the construction of the primary surface geodetic network has been continued and geomonitoring studies are underway to evaluate the long-term stability of the FCC area.

The presentation reviews the achievements of the past year and outlines the remaining challenges to be addressed during the Pre-TDR phase.

Author: WEYER, Benjamin (CERN)

Presenter: WEYER, Benjamin (CERN)

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