

Tech Term Tuesday

Digital Twins



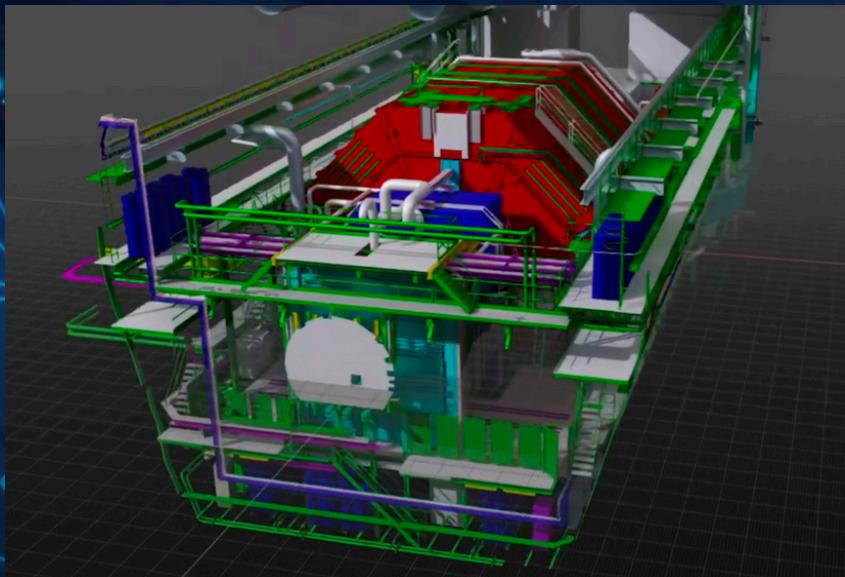
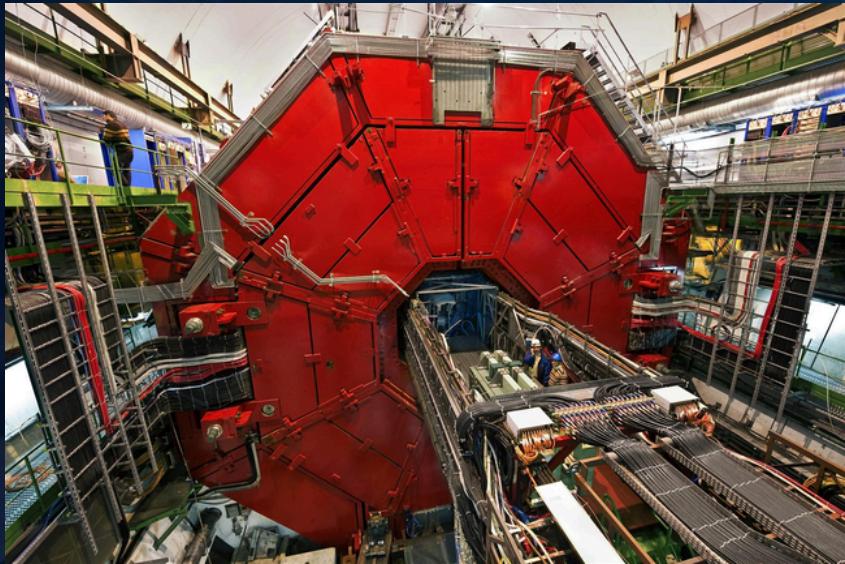
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Accelerating computing for science

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Digital Twins



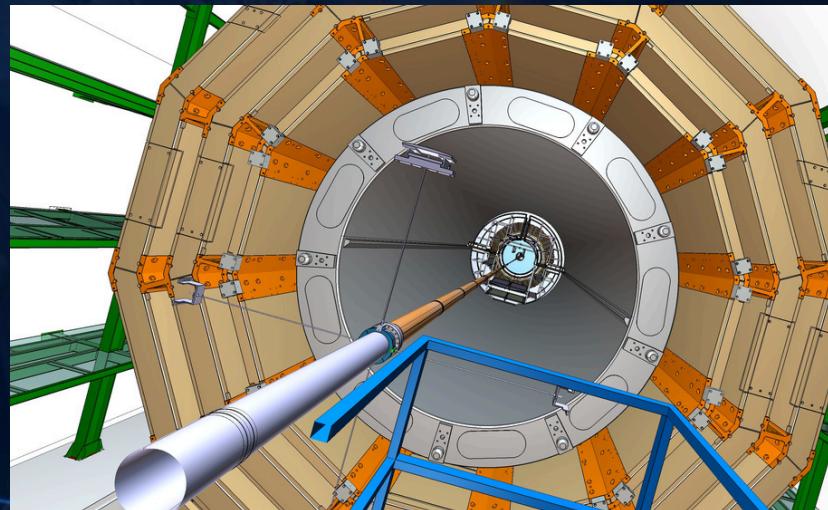
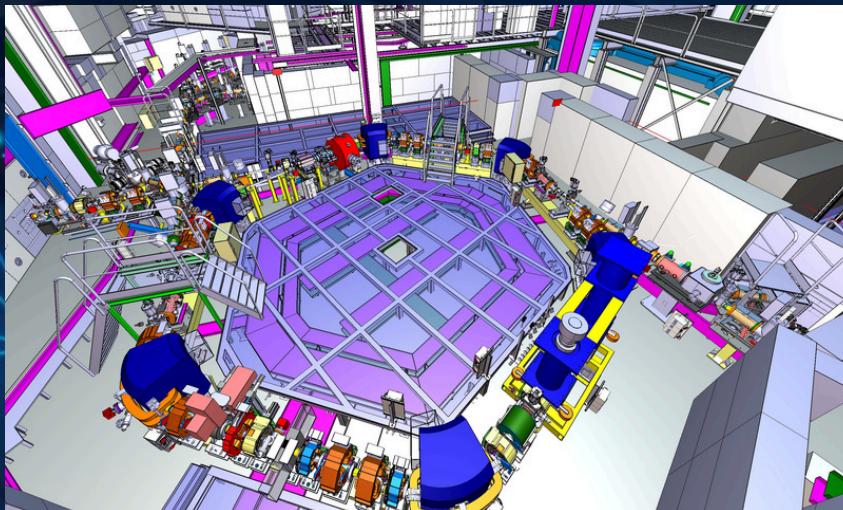
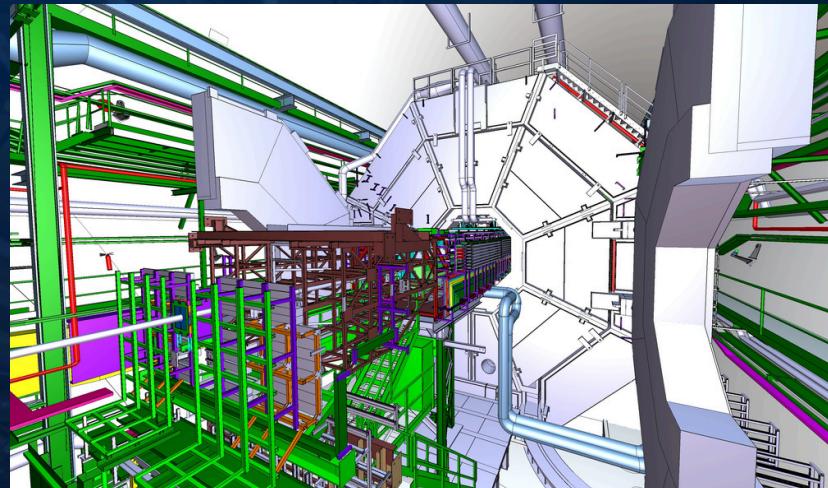
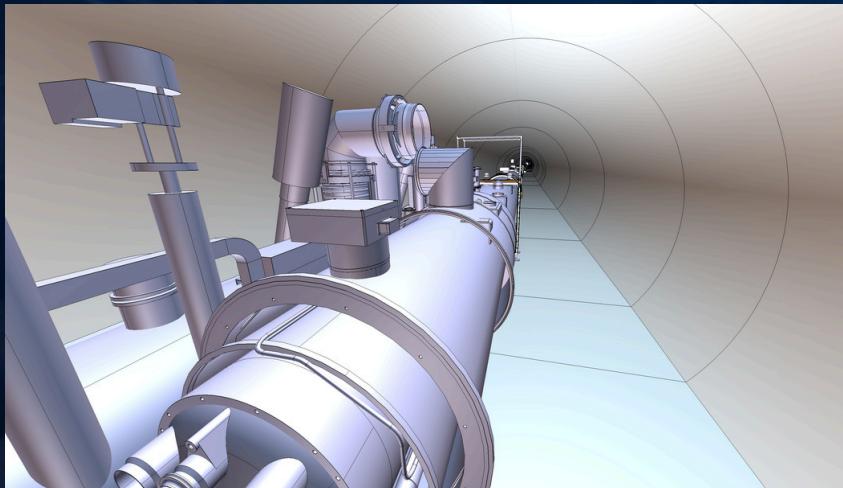
Digital twin of the Alice Experiment
by CERN's EN-IM-PLM section.

A digital twin is a **virtual replica** of a **physical system**. It involves creating a **dynamic digital counterpart** of a **physical entity**, **continuously updated** to mirror **real-world changes**.



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Digital Twins



Digital twins of the experiments and accelerator complex by CERN's EN-IM-PLM section.



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Digital Twins



Digital twins of data centres can help optimise energy efficiency, resources allocation, and hardware upgrades before procurement.

CERN openlab R&D focuses on digital twins use cases for scientific applications.



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Digital Twin

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