

Tech Term Tuesday

Digital Twins



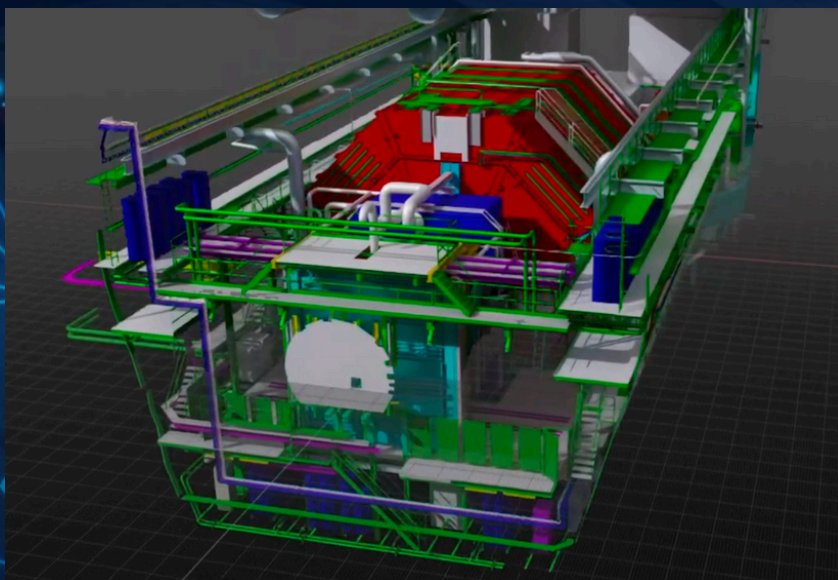
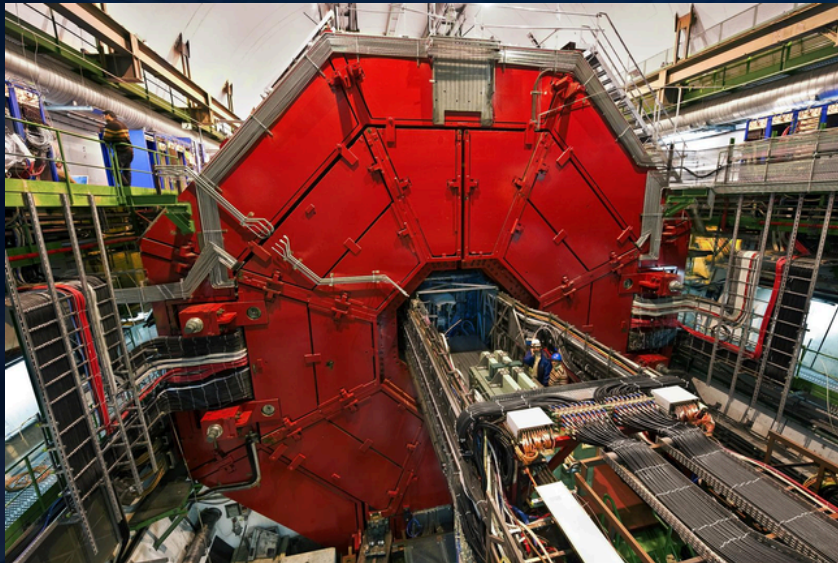
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Accelerating computing for science

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Digital Twins



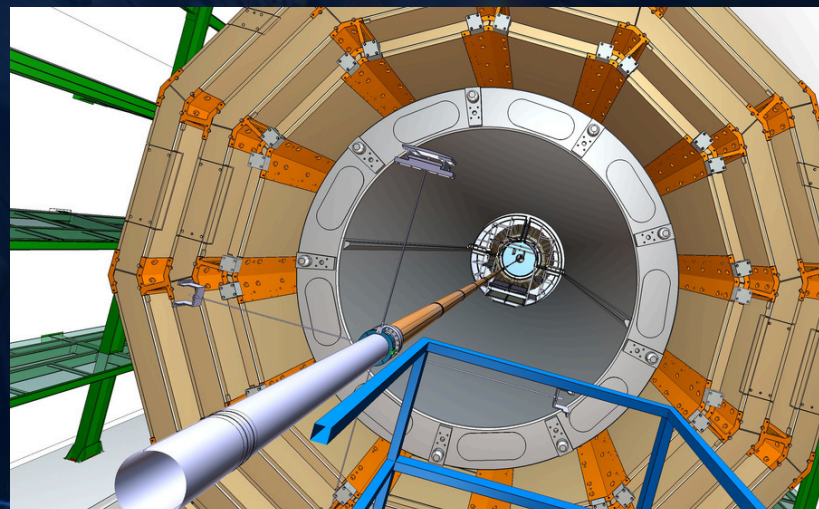
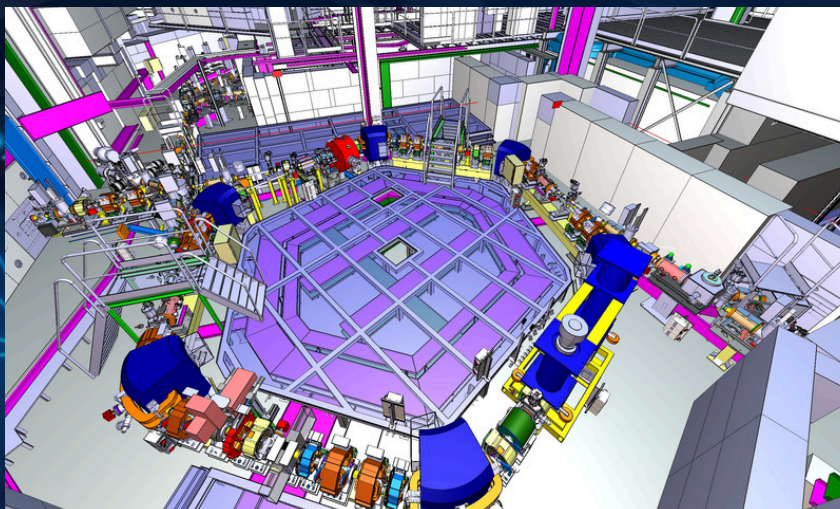
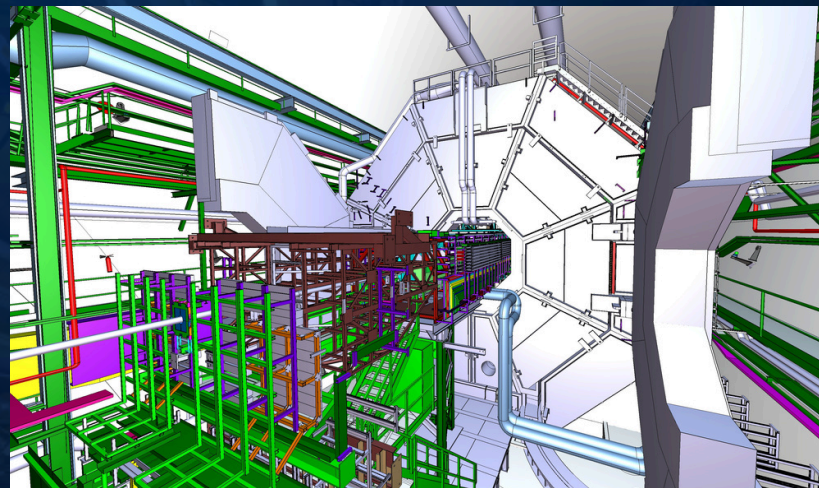
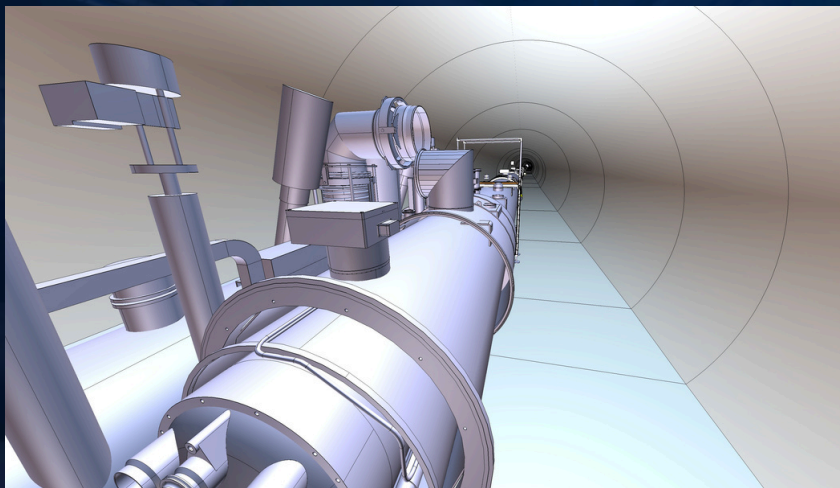
Digital twin of the Alice Experiment by CERN's EN-IM-PLM section.

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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