Digital Twin for the CERN Accelerator and Detector Complex

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In the PLM…

- **plm.cern.ch**

Digital Twin Applications

Outreach

Training

Design

Manufacturing

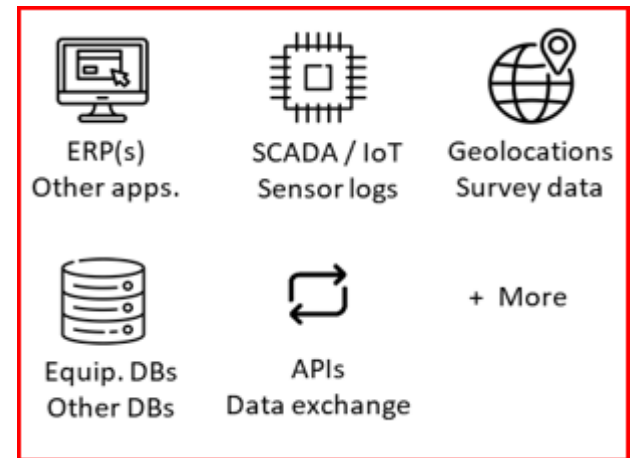**Maintenance**

Operation/Control

From here…

Link with Equipment Data (Digital Thread)

- **Equipment Systems/Databases**

- **Machine Learning on millions of Engineering Documents (AI: fine-tuning LLMs)**

- **Machine Learning on millions of CADs**

- **Visualise live data → Decisions**

From here...

Configuration Management

Easy Navigation / Searchable (Google Maps like)

Simulations

**More realistic rendering
        (Materials, Texturing...)**

Thanks for your attention!

Questions?