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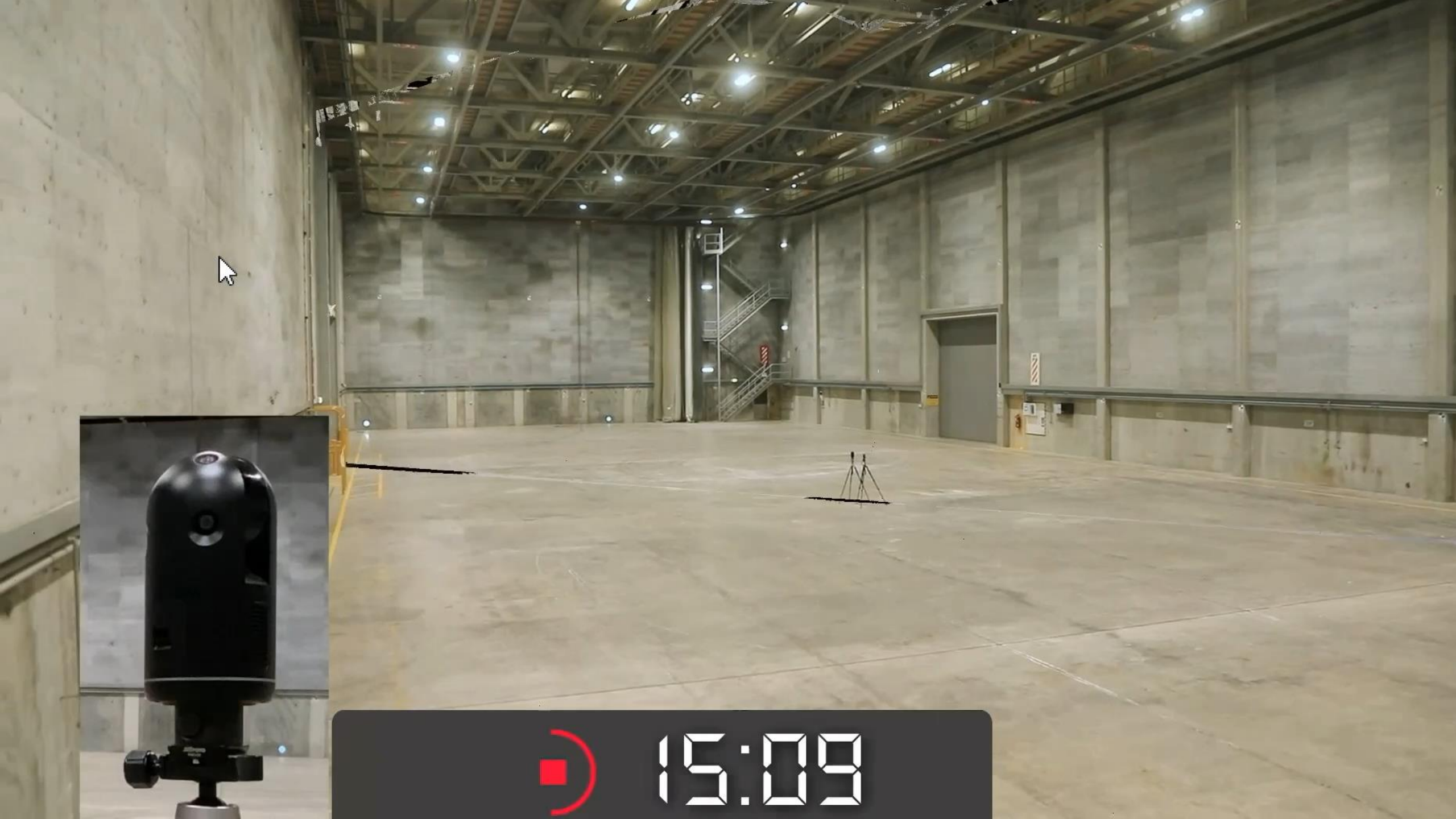
The age of intelligence – AI and digital twins

December 9th 2025

Johannes Maunz, SVP AI Hub, Hexagon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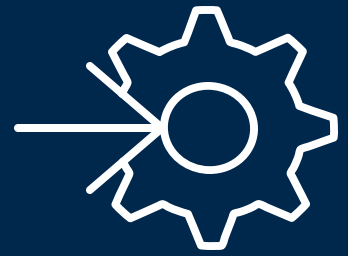
Spatial Intelligence

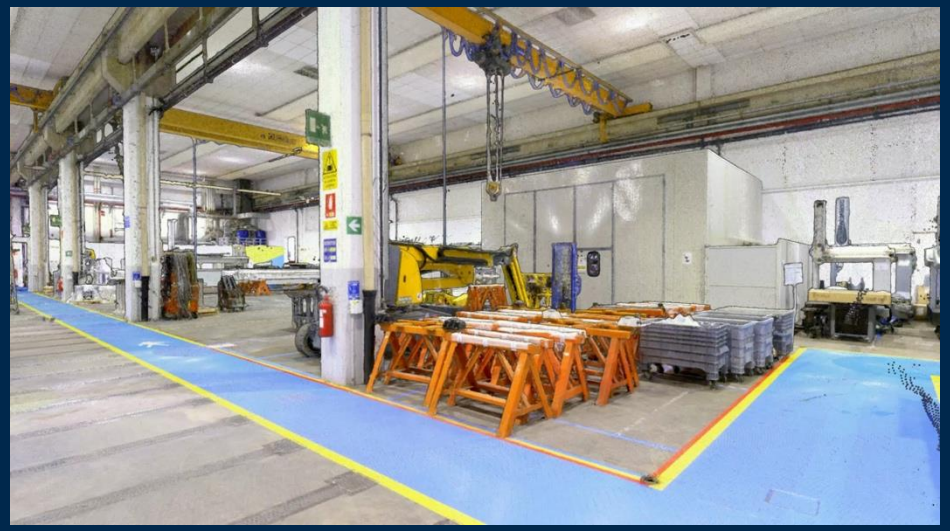
*… is the capability of machines to **process visual data, make predictions, and act upon those predictions** in a way that allows them to understand and interact with the real world.*

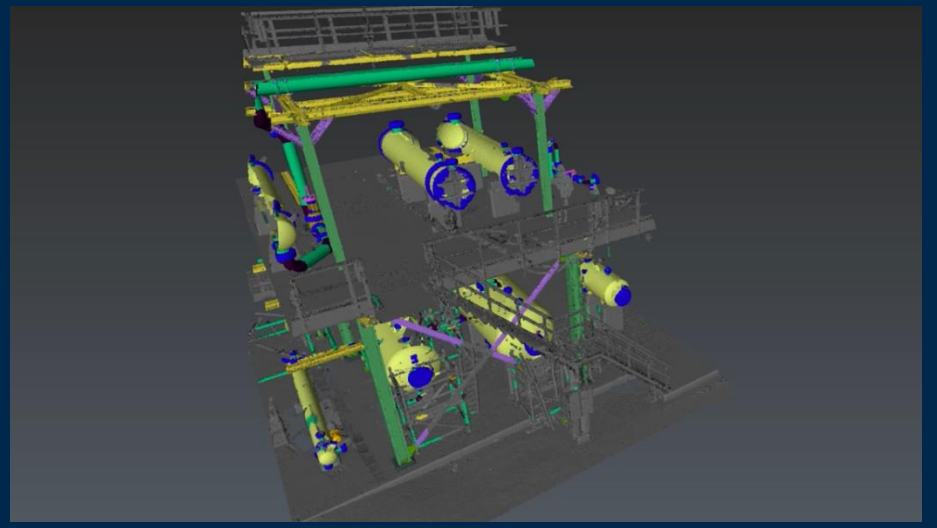
perceive

reason



actuate





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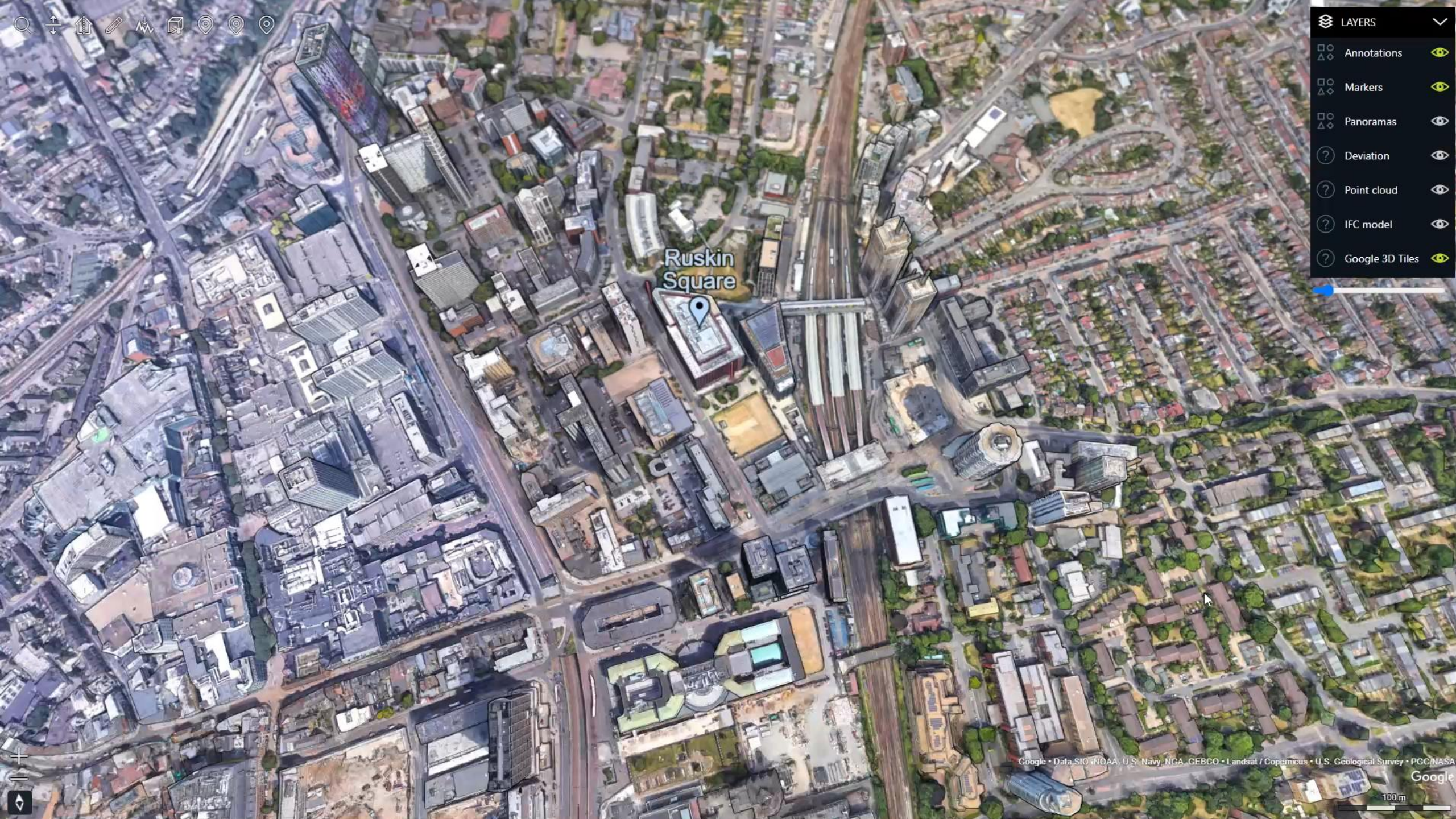
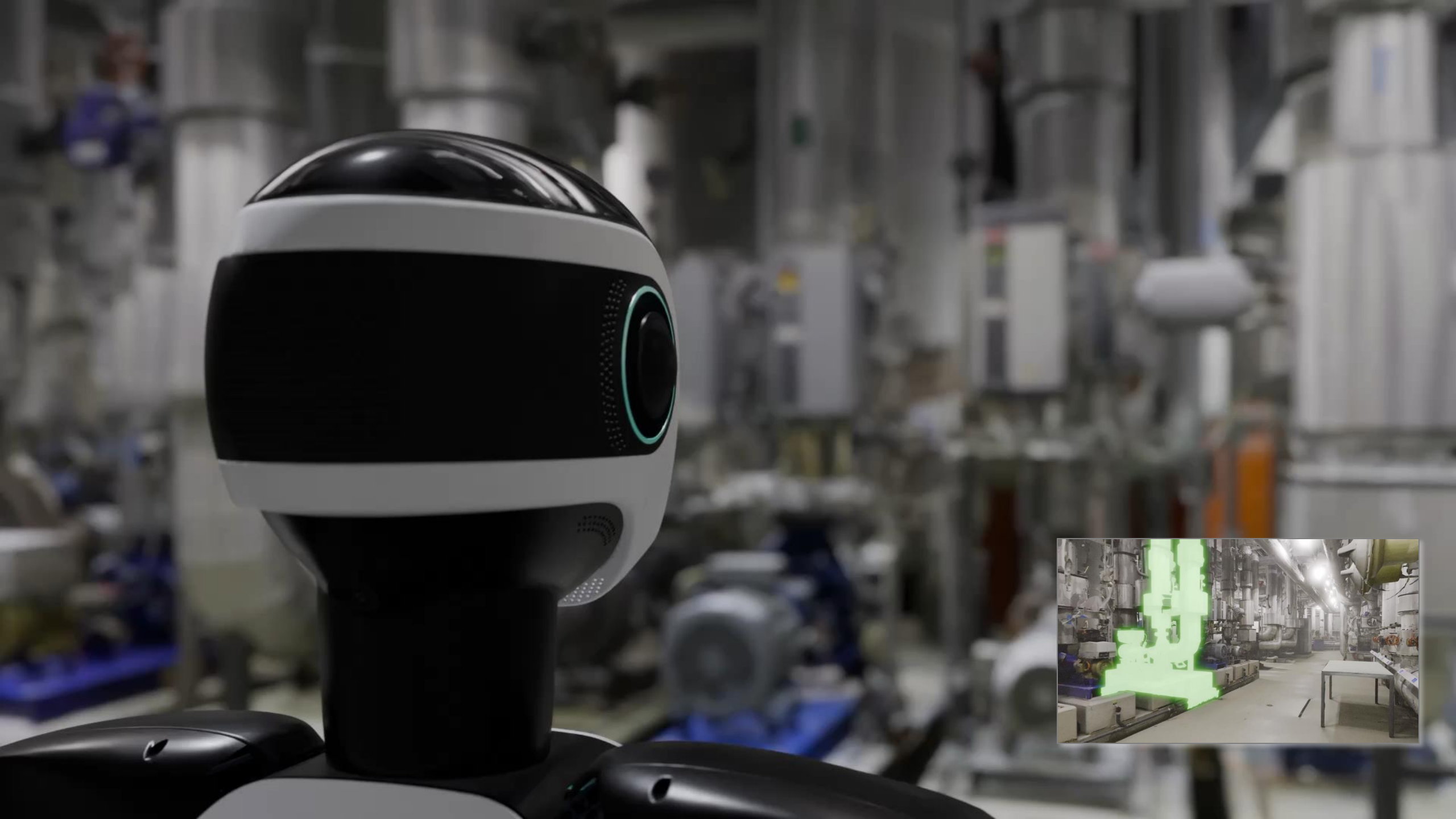
MINI


Ruskin Square
LAYERS
Annotations
Markers
Panoramas
Deviation
Point cloud
IFC model
Google 3D Tiles
Google • Data SIO, NOAA, U.S. Navy, NGA, GEBCO • Landsat / Copernicus • U.S. Geological Survey • PGC/NASA
Google
100 m

Spatial
intelligence

Spatial
awareness



Welcome to the
Age of intelligence

AI powered urban digital twin in Klagenfurt

The outcome

The digital twin is updated every 24 months to **measure and manage progress** achieving the goal as part of the EU-Mission ,,100 climate-neutral and Smart Cities" by 2030

Hexagon AI measured **116% increase in solar panel** area between 2021 and 2023

Klagenfurt achieves its goals to become climate neutral **33% faster because of the digital twin**

Klagenfurt's Digital Twin enables **>14 000 tCO2e avoided emissions per year**

That's the equivalent of taking > 330 internal combustion engine vehicles off the road or compensating for the annual carbon footprint of > 2 000 Austrian citizens

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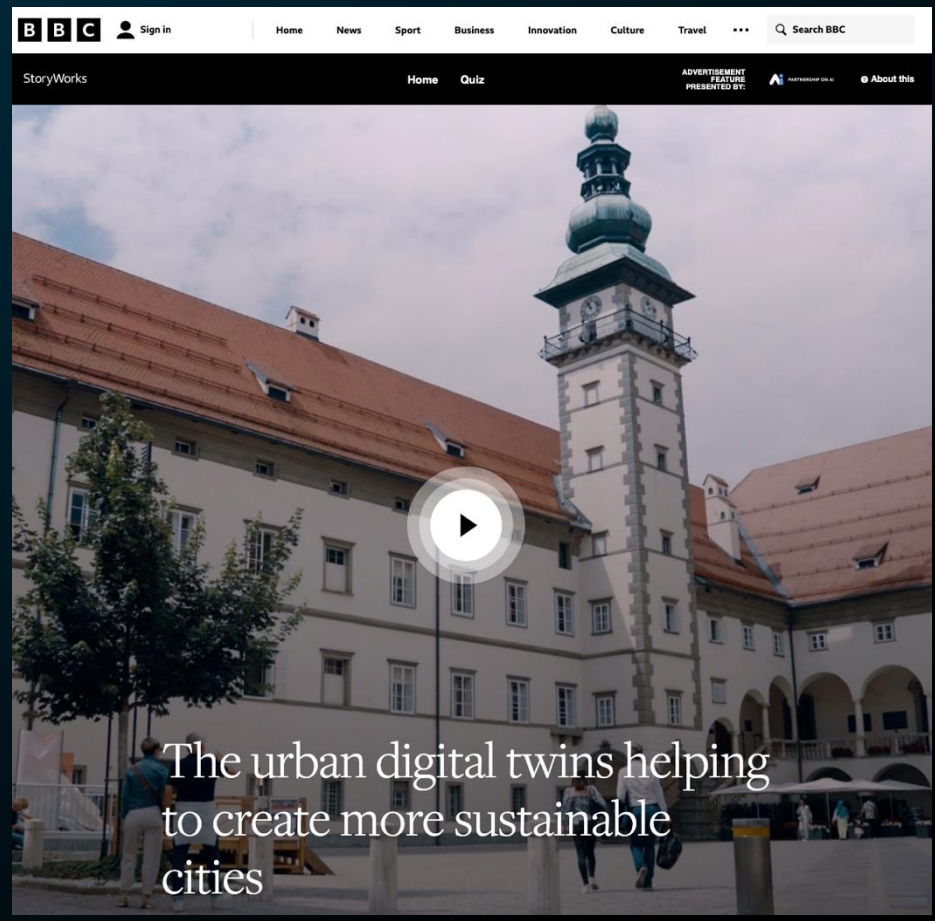
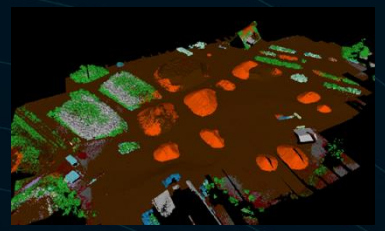
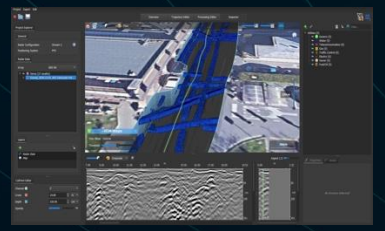
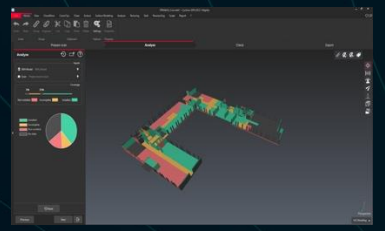
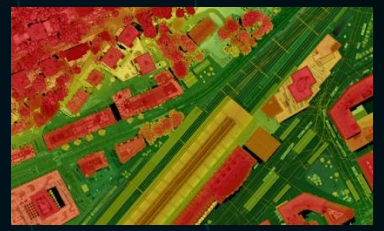
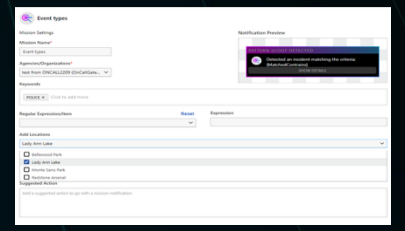
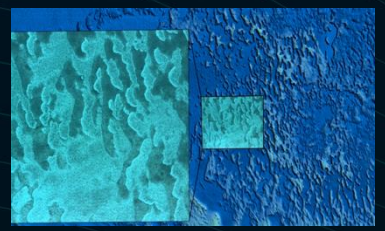
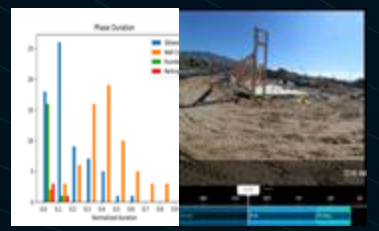
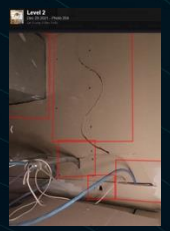
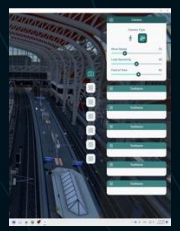
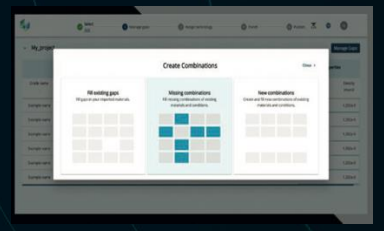
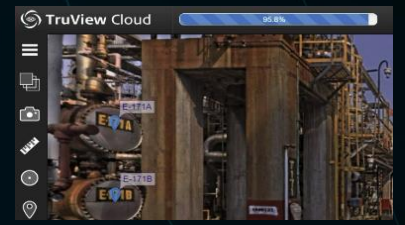
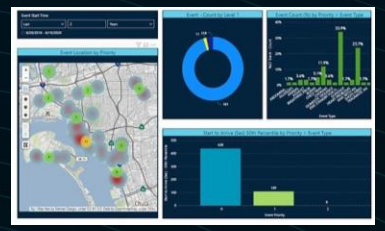
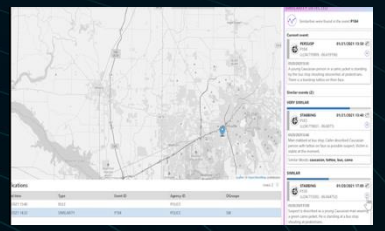
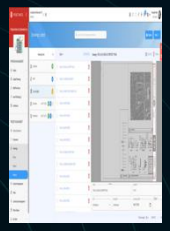
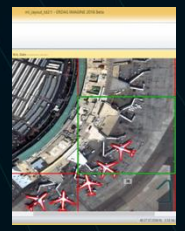
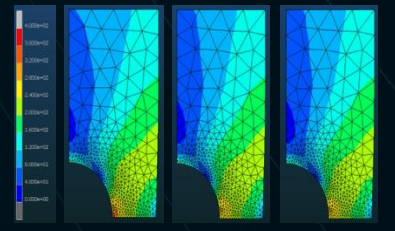
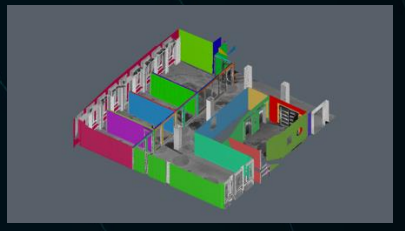
BBC StoryWorks Commercial Productions

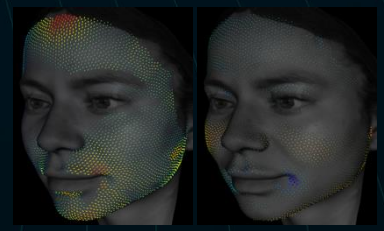
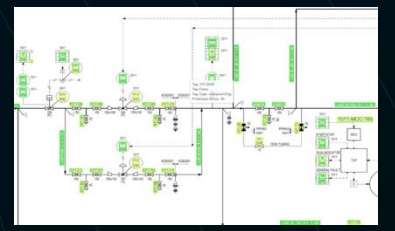
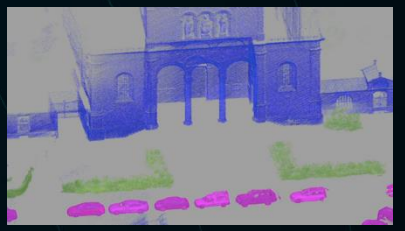


BEYOND THE CODE

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