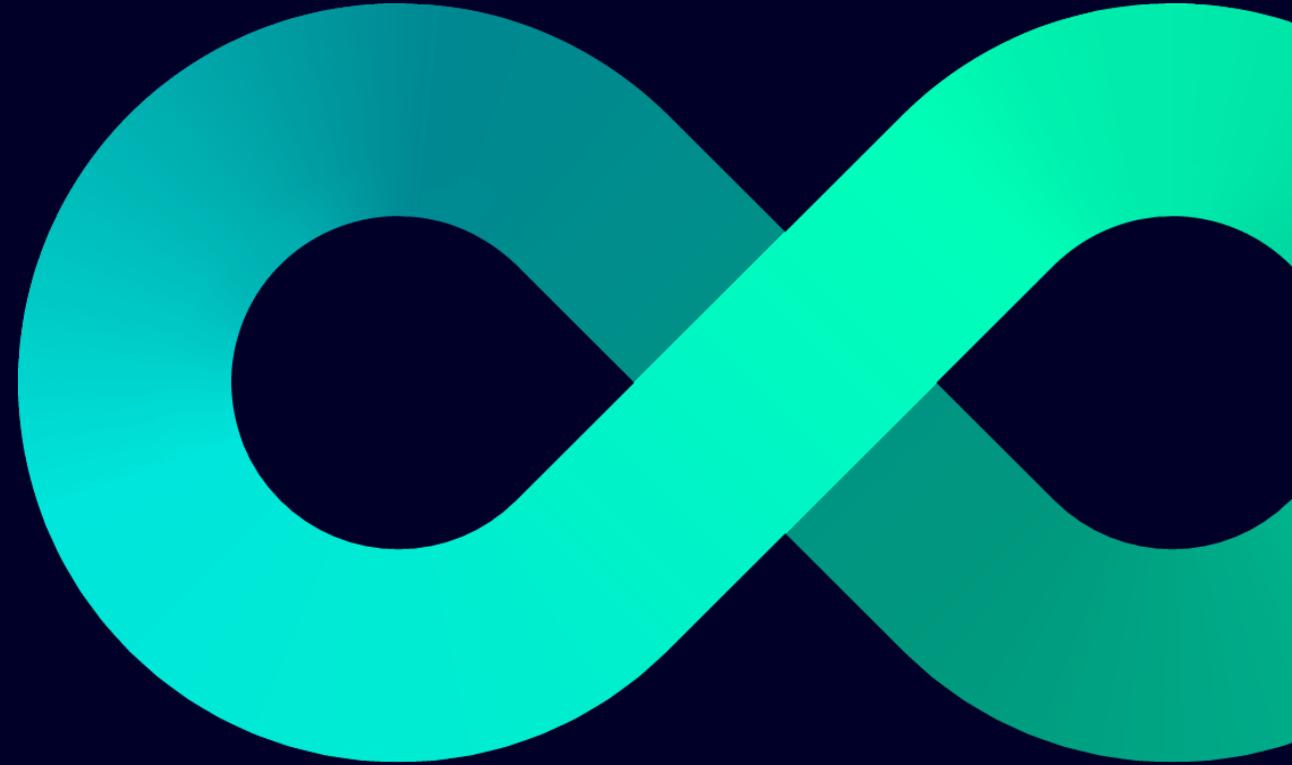


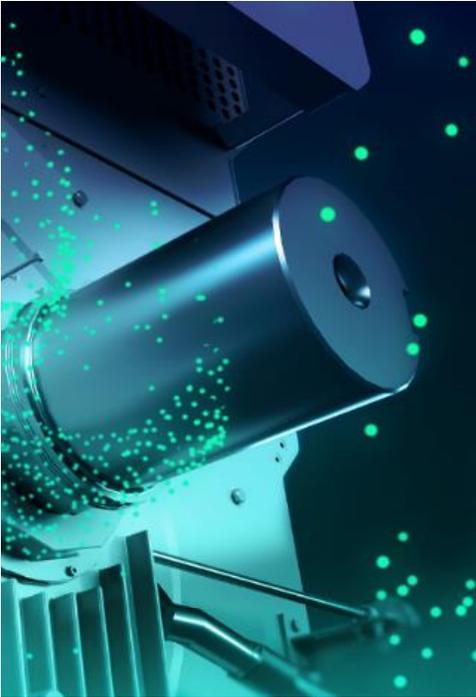
Instant 3D for the Industrial Metaverse

Collaboration across the
Entire Product Lifecycle



We are a “green motion” business: industrial drive systems for key industries

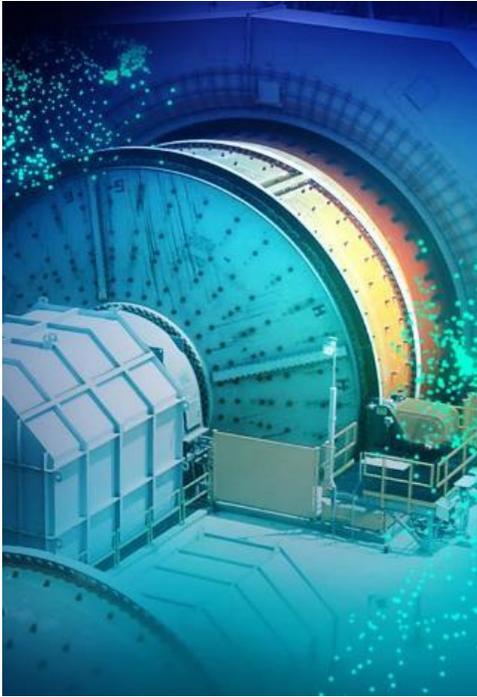
**Motor & Drive
Products and Systems**



**IoT &
Digital Capabilities**



**Mineral & Test
Automation Solutions**



Customer Services



The Industrial Metaverse – it is all about combining the digital with the physical world...

A place to experience the Digital Twin of industrial assets¹, by...

Visualizing a system in a virtual world and gaining insights in an immersive environment

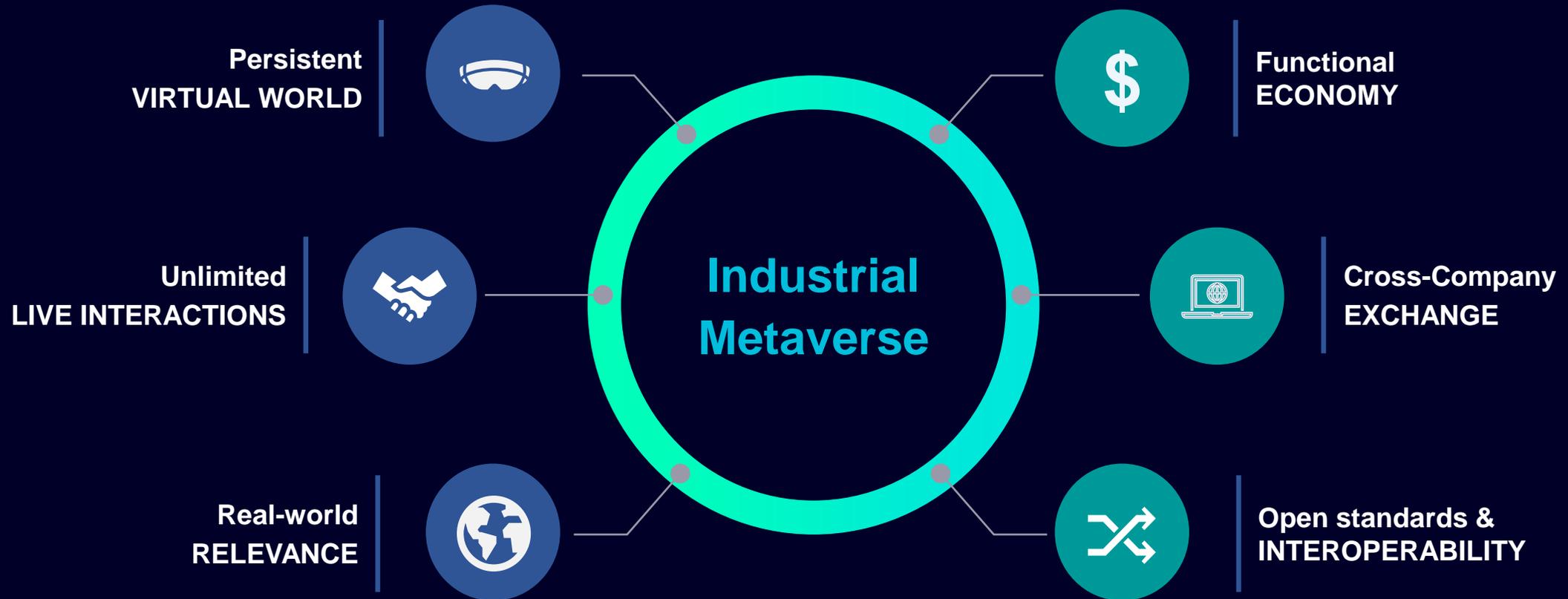
Meeting in real-time, to review collaboratively and make changes immediately

Continuously and interactively evaluating, simulating and predicting the behavior of a system

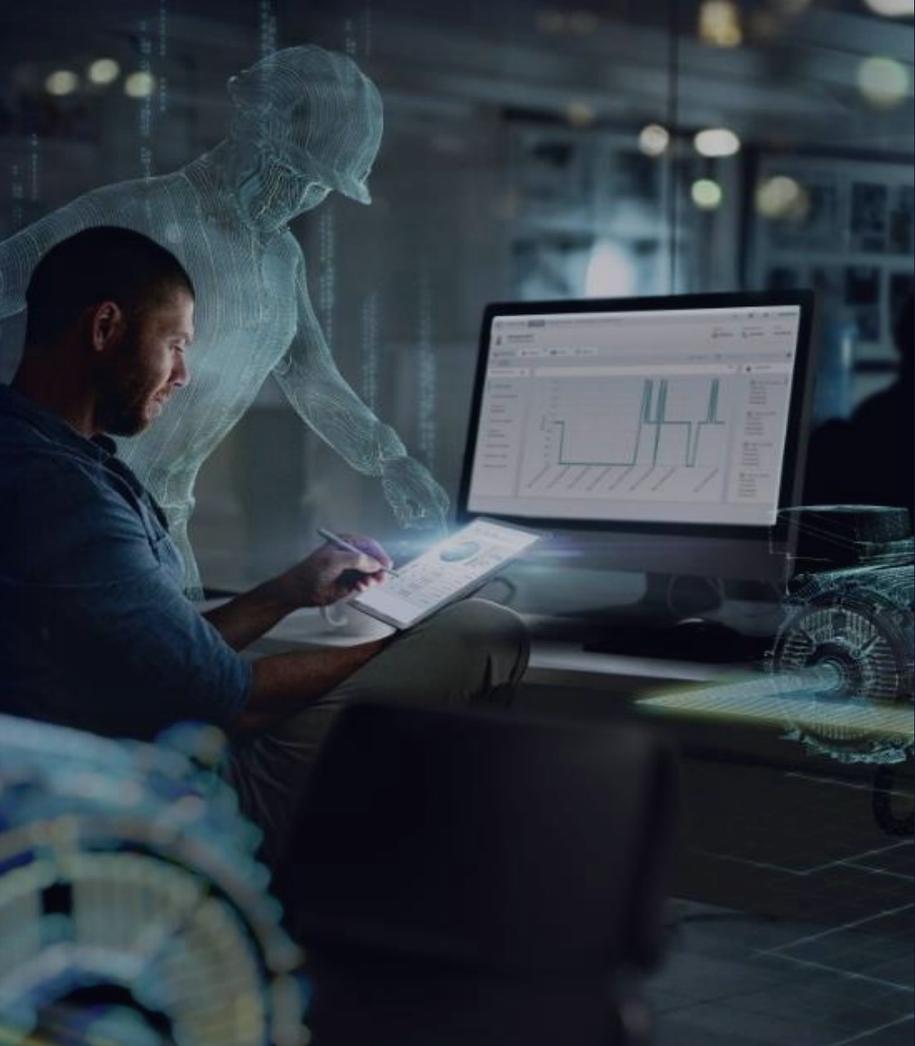
Monitor, analyze and manage real assets in closed loop

¹ Products, Machines, Systems, Plants, Infrastructures, ...

...and an opportunity to augment customer experience & generate business impact

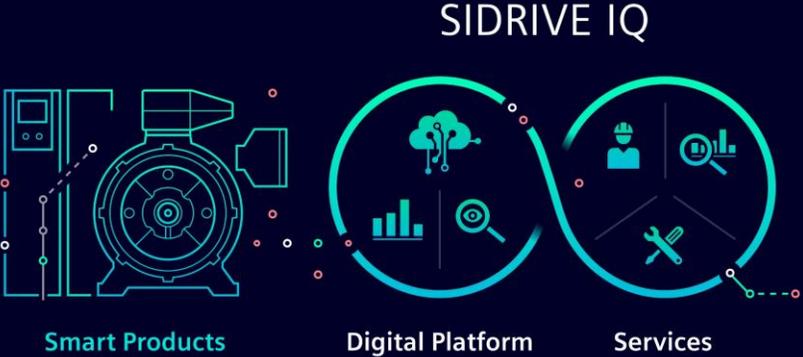


SIDRIVE IQ – our IoT-platform & services to leverage the Industrial Metaverse



SIDRIVE IQ

Taking smart fleet management of drive systems & drive system solutions to a new level



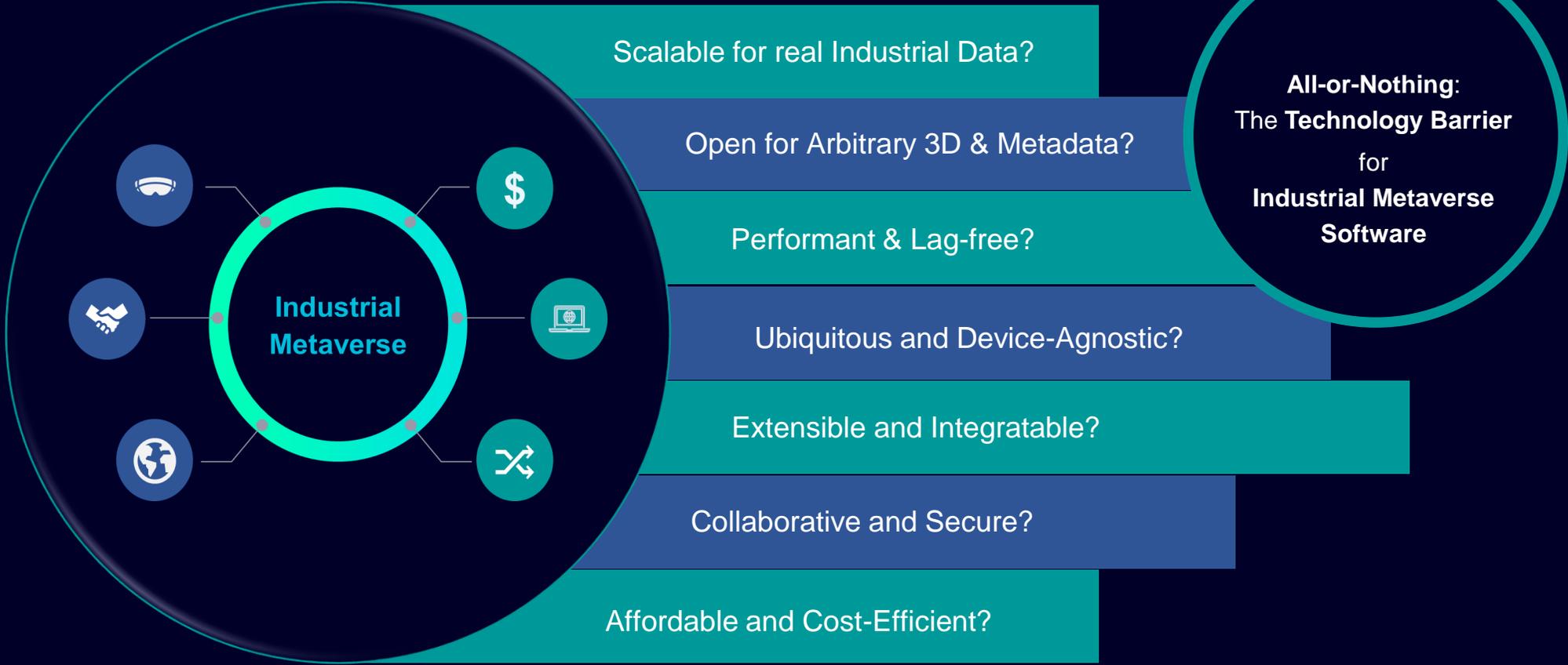
A flavor how it matters to our customer and us...



Drivers for 3D-immersive experiences across the product lifecycle are human-centered interaction, efficiency & time-savings



Requirements for Industrial Metaverse applications are a challenge



Making 3D data fly

THREEDY^{GmbH}

Spin-off from Fraunhofer IGD institute
Product **instant3Dhub**



Transform 3D Data into Interactive Experiences
Any DATA | Any DEVICE | Any SIZE



4SOFT
THREEDY



DAIMLER TRUCK



Mercedes-Benz



SIEMENS

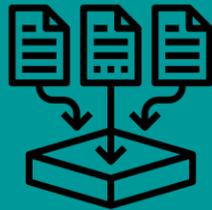


Any Data, Any Device, Any Size – Instantly!



Any DATA

All relevant 3D standards like
JT, X3D, 3ds, STEP, CATIA, NX



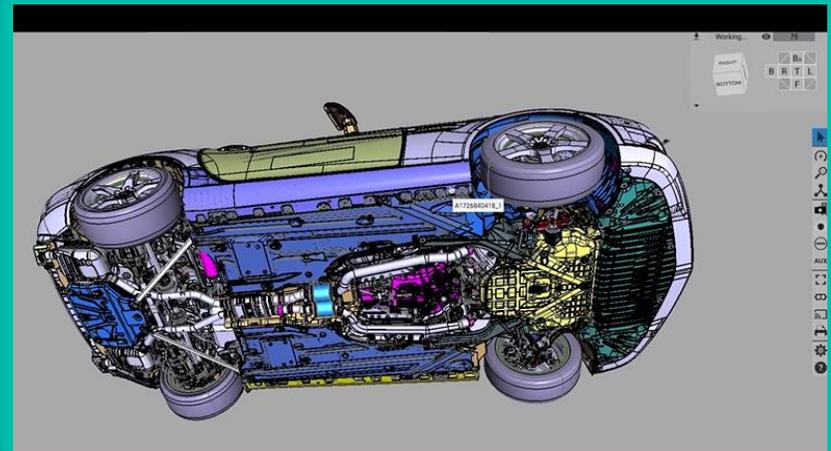
Any DEVICE

Windows, Mac, Android/iOS, HoloLens
No plugin installation required

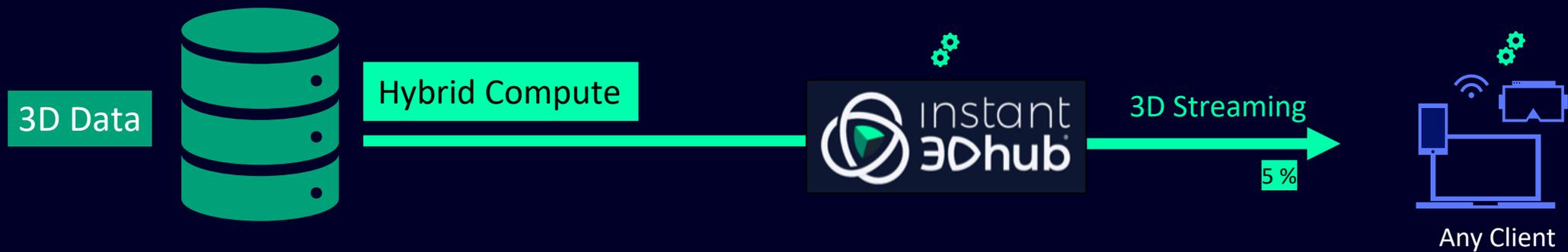


Any SIZE

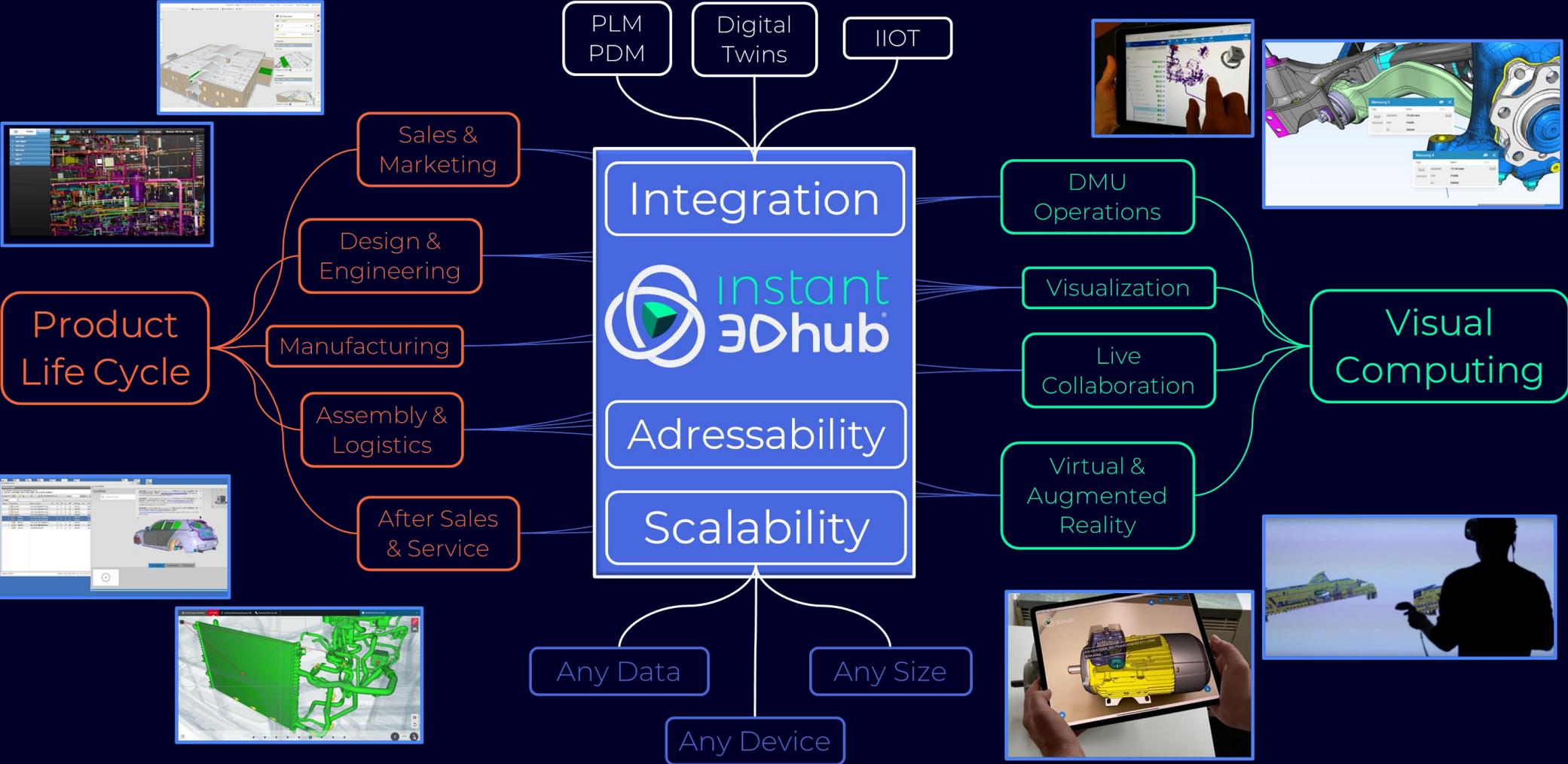
Use Case Mercedes-Benz:
100 Mio. triangles, 2.500 JT files



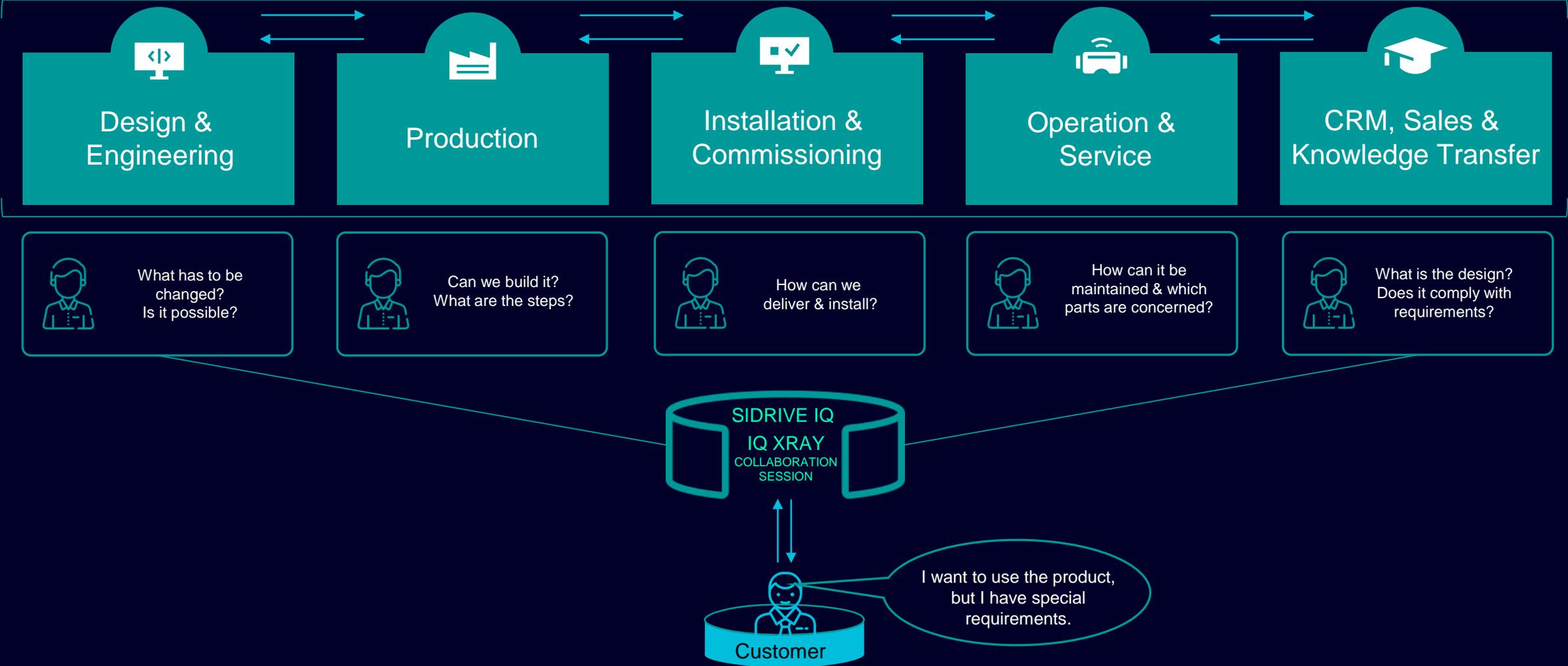
3D Data Streaming – a hybrid distributed compute model to enable various scenarios



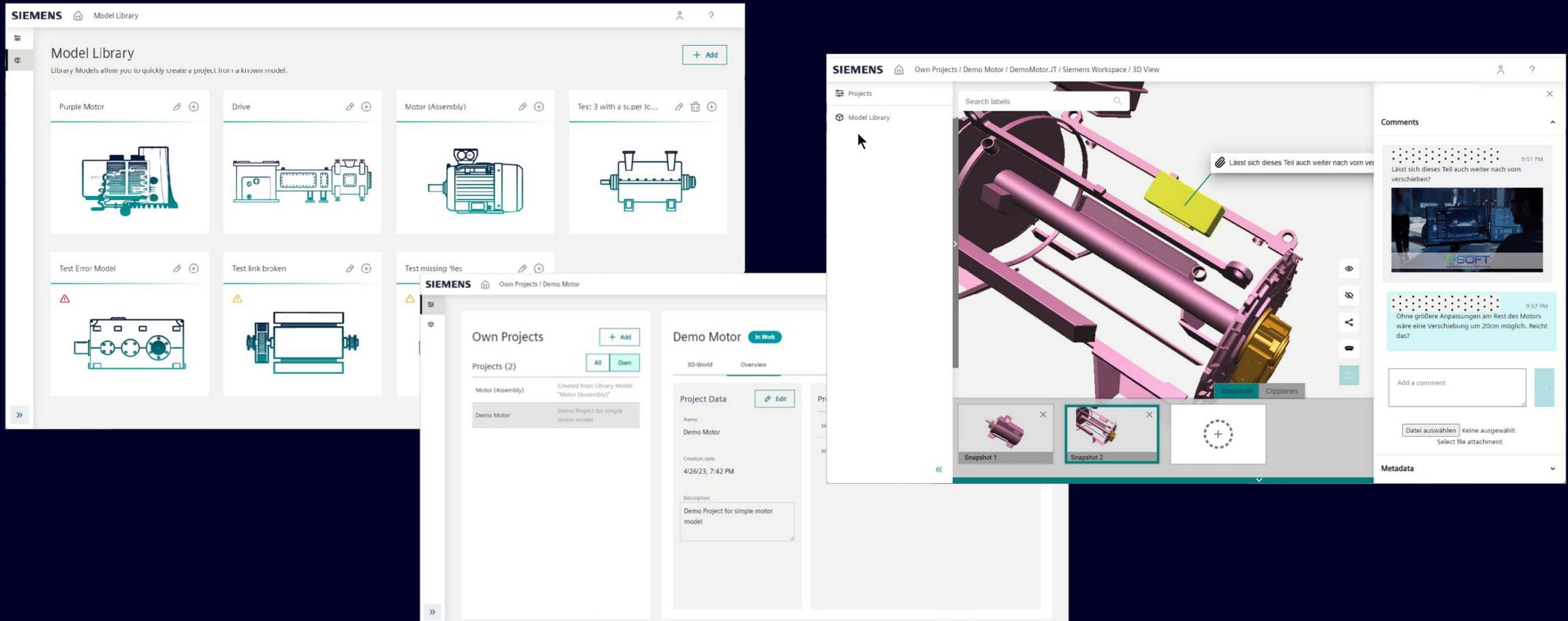
The core : instant3Dhub as an “Enabler” for new applications



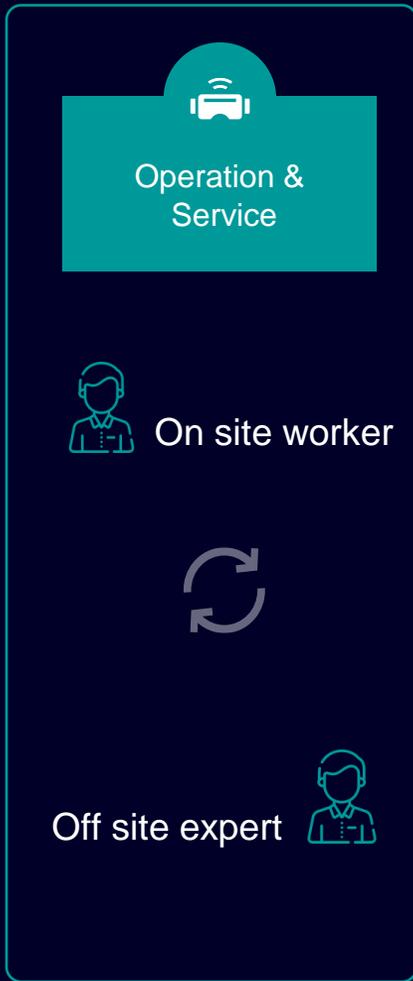
Use Case: collaboration in engineering domain across the entire product lifecycle



SIDRIVE IQ X-Ray: an integrated, secure, workflow-driven collaboration service



Perspective for SIDRIVE IQ platform: assisted maintenance with smart devices



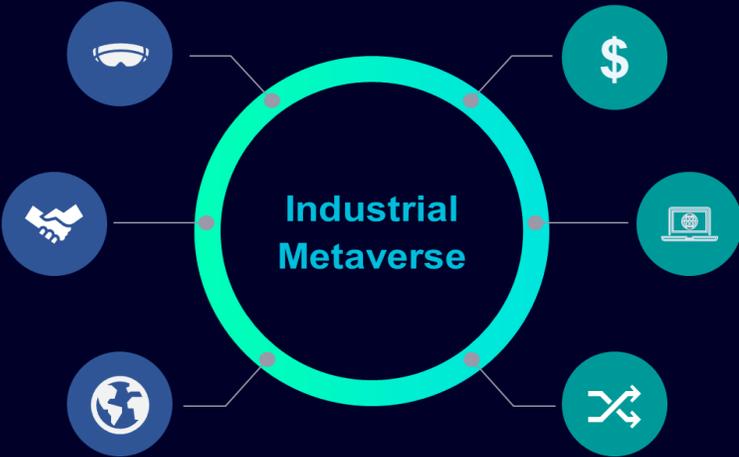
Smart Documentation for interactive online access to individual product information

Efficient search for errors instead of long scrolling and scrolling in confusing PDFs

Interactive step-by-step training based on the animated 3D model

Assistance by remote expert sharing the view of the on-site worker

3D data streaming : key technology for the Industrial Metaverse & enabling value already today



Industrial Metaverse
Vision & Promise



3D Data Streaming
Technology & Features



Business Impact
Benefits & Use Cases