



Skalierung & Standardisierung von industriellen Metaverse Anwendungen

Johannes Behr, Co-Founder & CPO, Threedy

Founders



Christian Stein

CEO



Dr. Johannes Behr

CPO



Maik Thöner

CTO



Sascha Räscher

PS & QA



Stefan Domdey

VP Sales



Andreas Holz

CFO

50+ EMPLOYEES

2020 FOUNDED

25+ YEARS EXPERIENCE



Mercedes-Benz

SIEMENS

Demand for Industrial 3D is exploding!

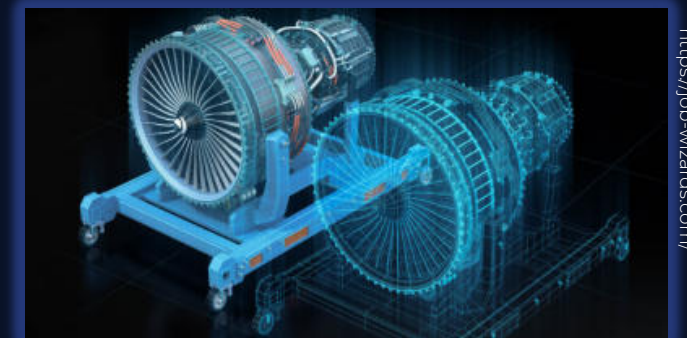
Digital Twins &
Industrial Metaverse
require
3D data omnipresence.



<https://www.ipk.fraunhofer.de/>

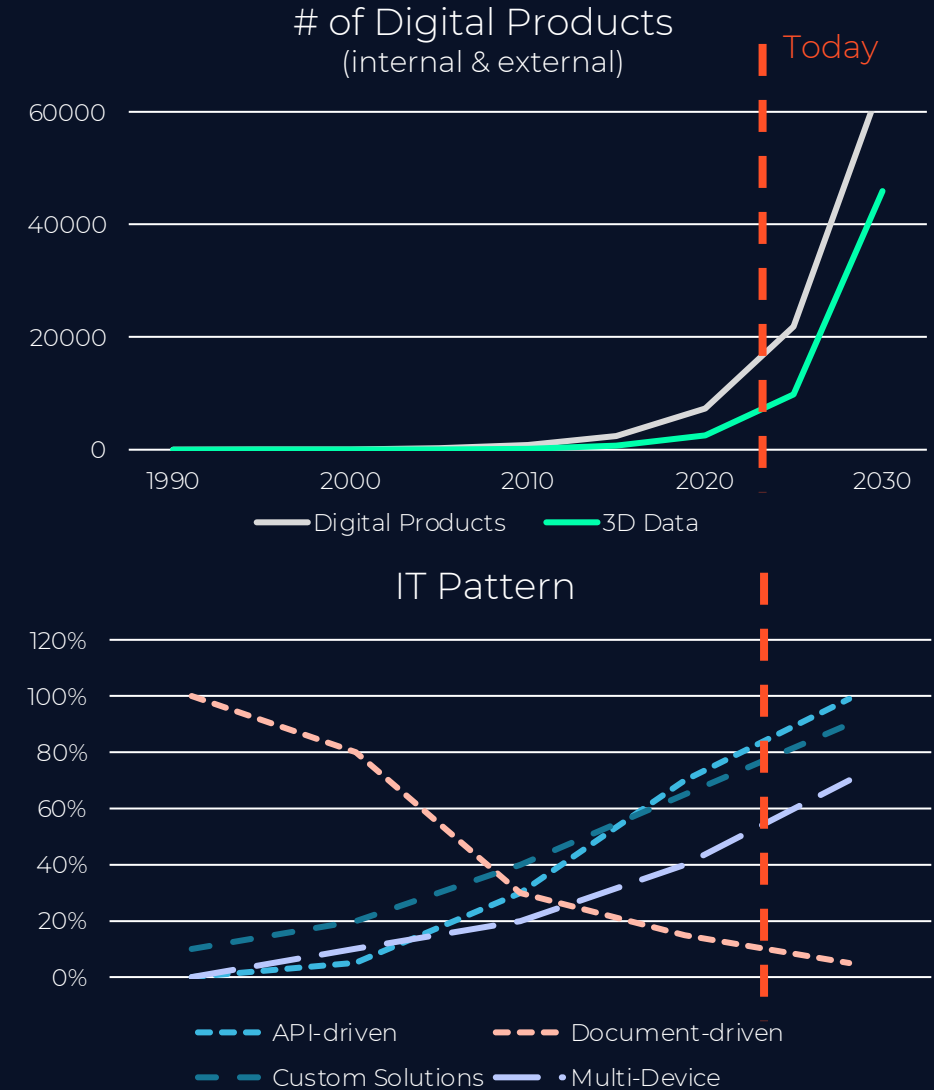


<https://www.autopromotec.com/>



<https://job-wizards.com/>

Customers accelerate
Digital Transformation
with growing # of tailor-made
Digital Products
to accelerate
Time to Market
for physical products



Digital Product and 3D Data

Hyperconnectivity



- Progressive data & apps
- Desktop, mobile & XR
- Multi-user, Multi-channel
- Distributed data governance

Interoperability



- Dynamic, user generated content
- Rich user experience
- Mobile first
- Databases & APIs

Static content



- Discrete data
- Single user
- Server compute
- Blocking transmission

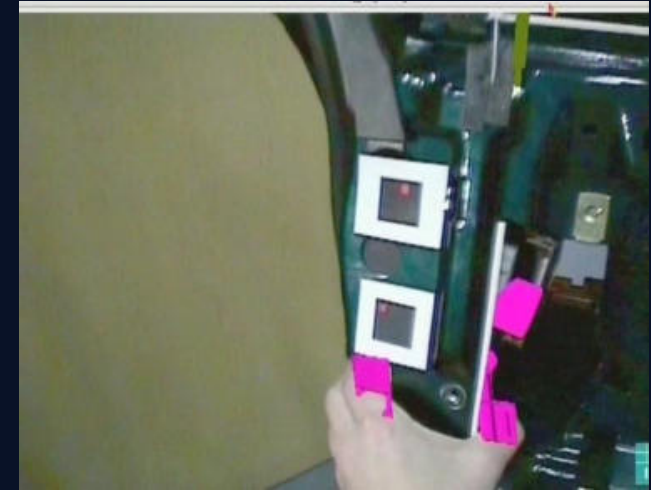
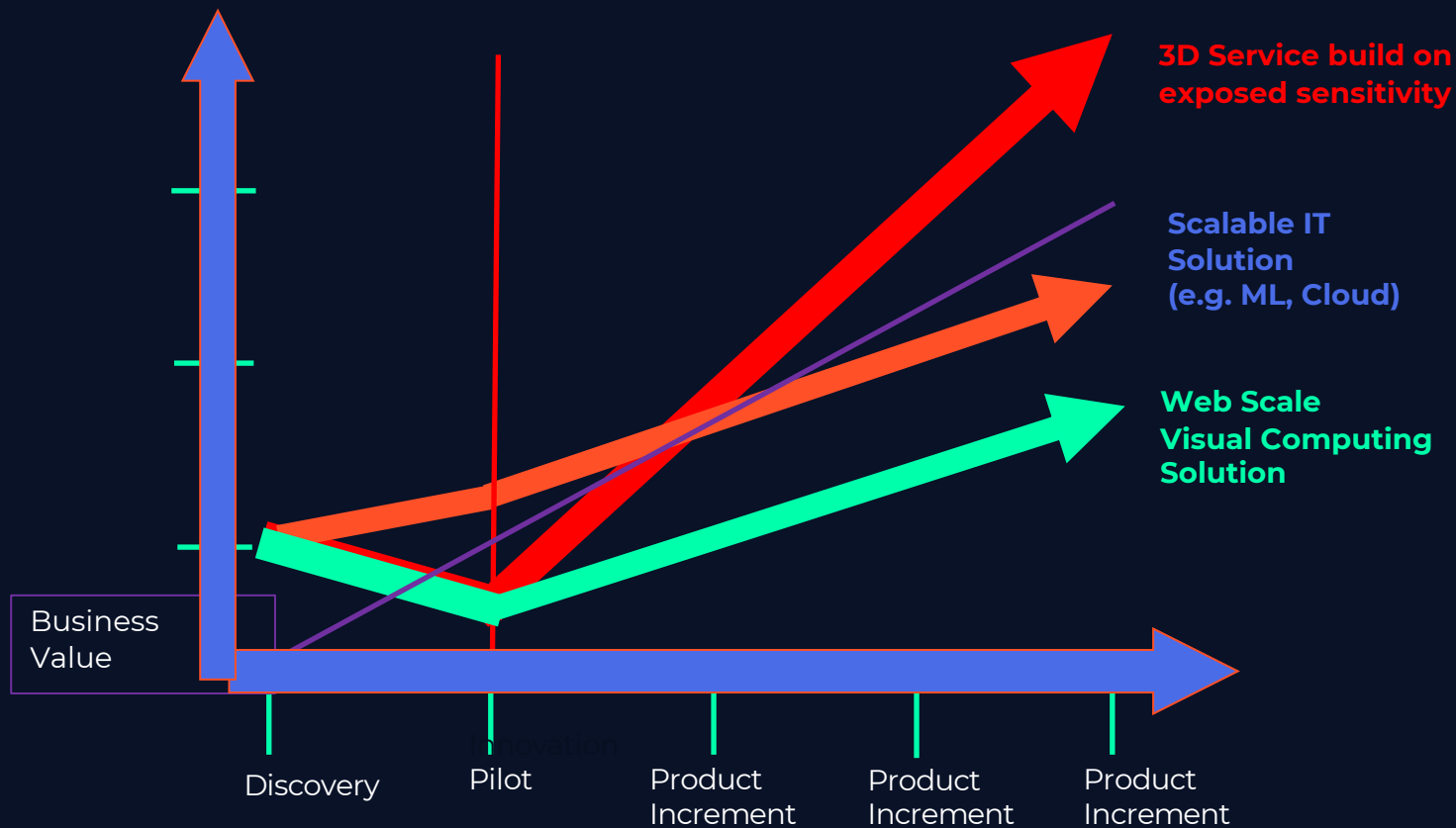
But **current 3D technology** won't deliver on the 3D data omnipresence!

3D Technology Today

- Discrete & closed files
- Coupled transfer & processing
- Server vs. client compute
- Data size & format explosion
- Costly conversion as band-aid fix

Digital Product scalability ☹️

“Pilot Purgatory” leads to exploding TCOs



1998, Cebit, Fraunhofer IGD, BMW

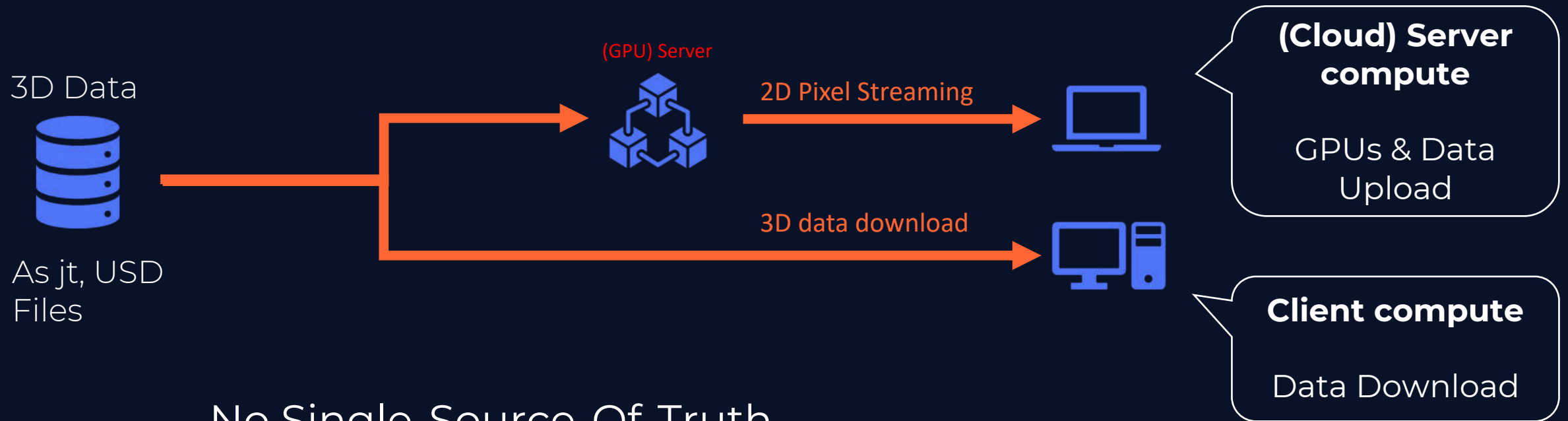
=> “AR-Service is Killer App!”

Status 2024:

- No Standard Solution
- TCO/Cost per Case too high!

What current technology do

THREEDY

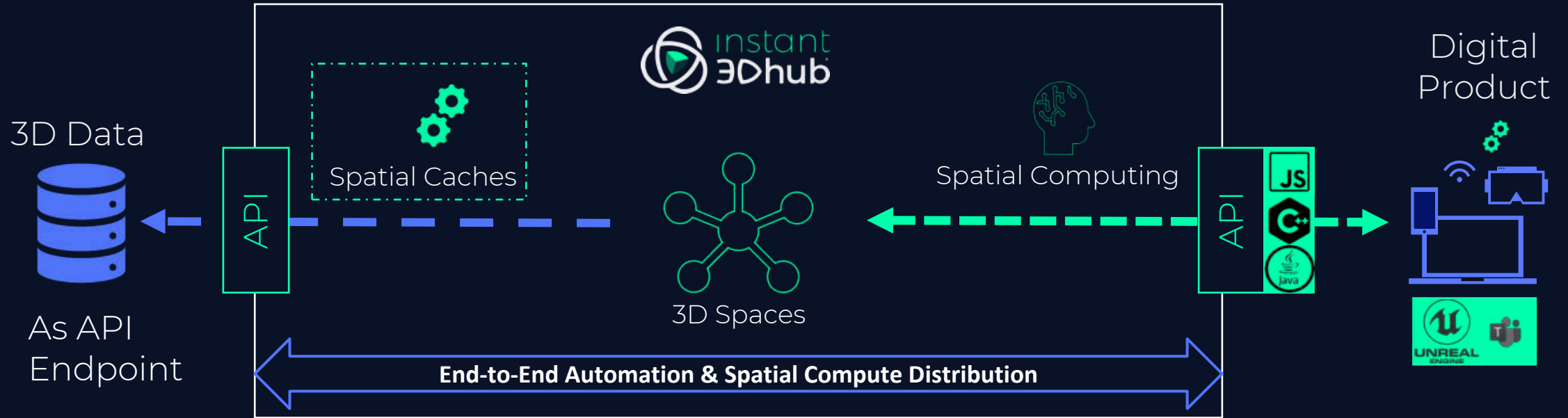


- No Single-Source-Of-Truth
- Time consuming
- Data reduction
- High TCO at scale



What sets us apart

THREEDY

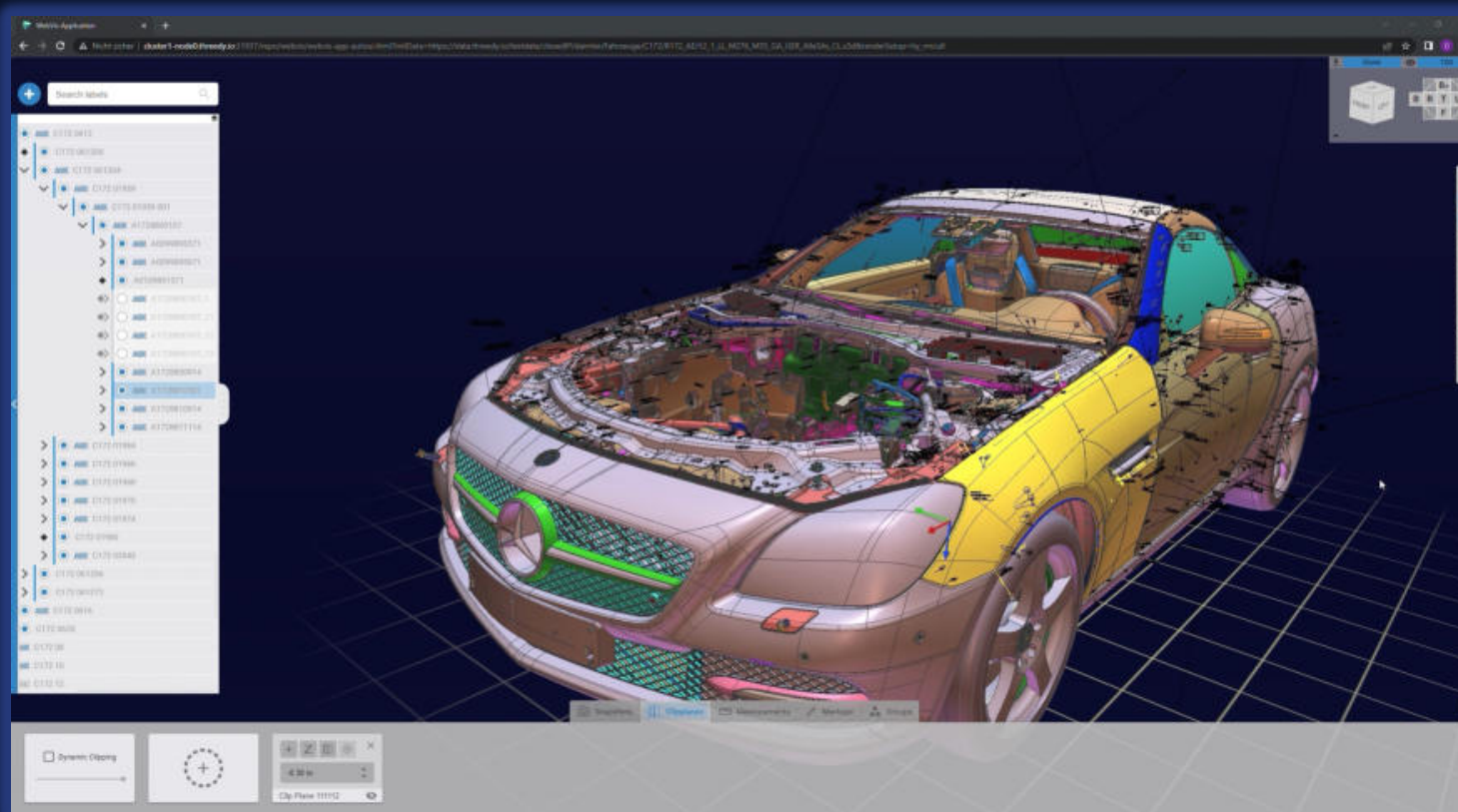


- Data references
- No conversions or Uploads
- Automate & distribute computation



instant3Dhub: “Google Maps for 3D Data”

API-based Company-wide Spatial Computing Enablement



Data integration via **live-links** to harmonize **single source(s) of truth** e.g., PLM or Digital Twin backends

First data-driven **Spatial Computing** middleware for fully automated **distributed computation & progressive streaming**

Packaged **Standard Apps** & **Custom App** built on service APIs

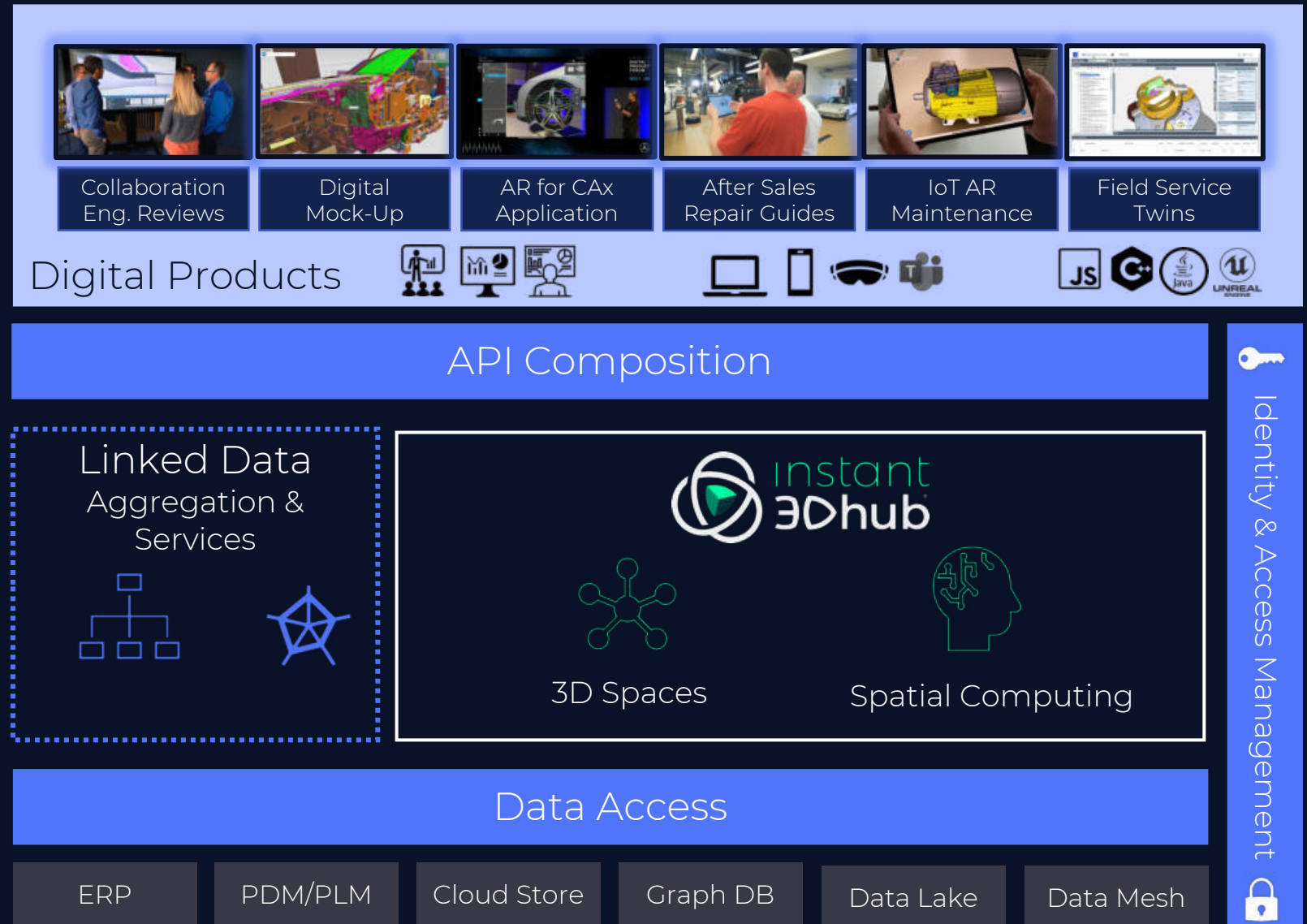
Any Data **Any Device** **Any Size**

3D Data and Spatial Computing Virtualization

as perfect fit
to enable

Digital Products

in modern software
infrastructures.



ThreedySpace: dynamically compose 3D data of

- any 3D Data Standards (e.g., USD, gltf, X3D, OpenJT, step...)
- provisioned by different gateways (e.g., Omniverse, MS Graph, S3, Teamcenter ..)
- for standard and custom apps (e.g., Web, UNREAL, ..)



Eng. & Design

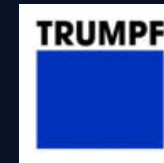
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AfterSales & Service



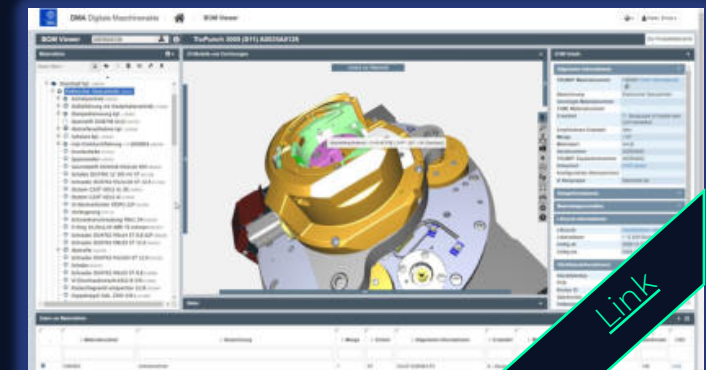
Mercedes-Benz



- “Visualization-as-a-Service” infrastructure backbone
- #1 Use Case: Engineering review & collaboration
- > 2.000 daily users for core applications



- Company-wide End2End 3D enablement
- Various use cases along product lifecycle
- DARC: #1 AR solution for engineering & backbone for XR Application mesh



- Digital twin for worldwide field service
- 1.7k users accessing > 150k product instances
- Deep integration of live 3D & product data



3D Collaboration
for Engineering &
Manufacturing
“as easy as Office365”.

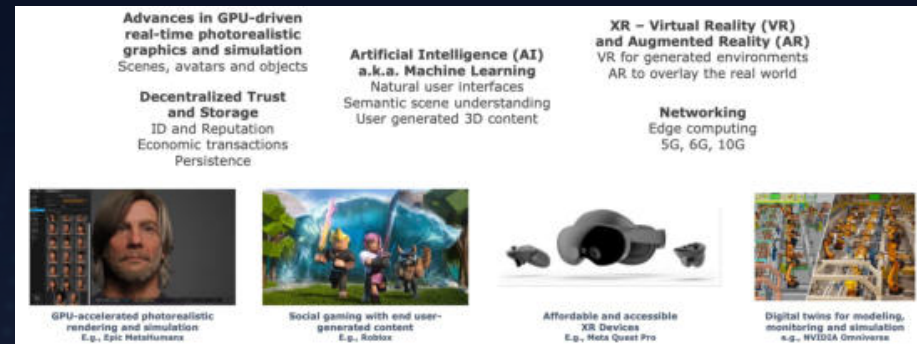


any data. any device. any size.

Link



“The Metaverse combines the connectivity of the Web with the immersiveness of Spatial Computing”

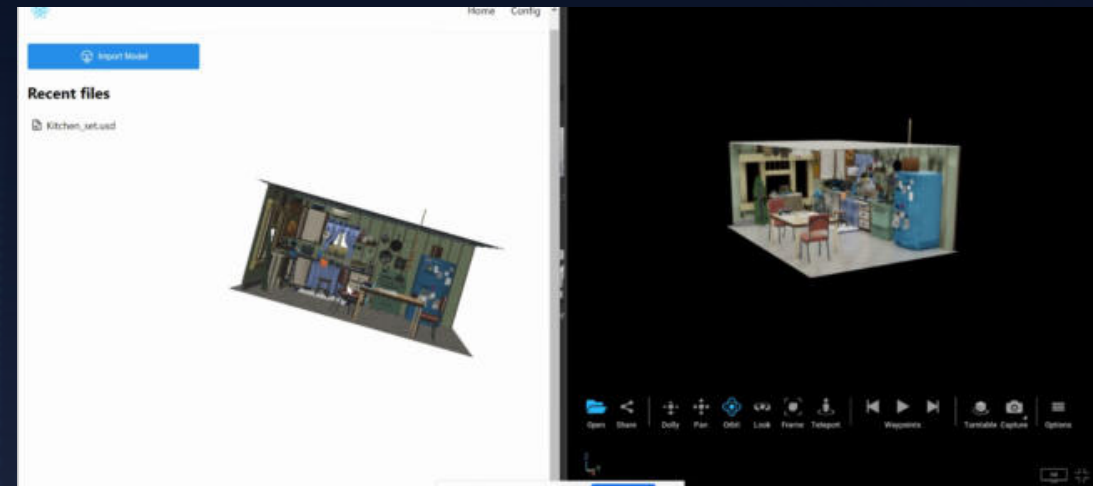


[Link](#)



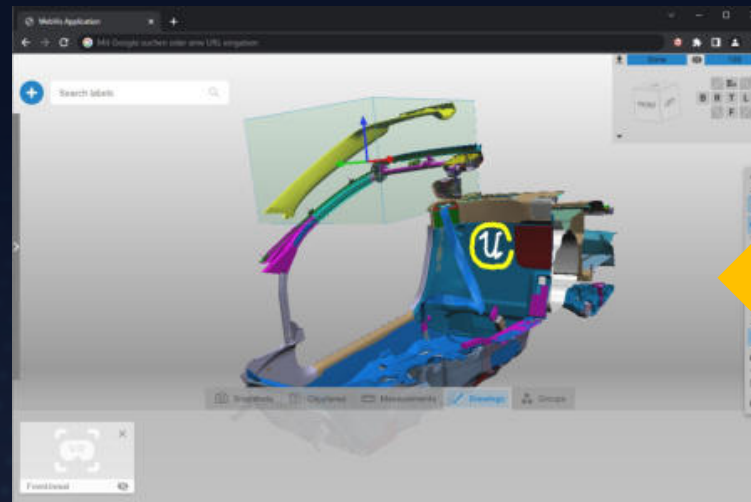
Omniverse integration

- 3D Data Integration
 - USD in hub
 - Live Data from Nucleus, Gateway
- 3D Streaming in Omniverse Client
 - From hub to Omniverse Client
 - From hub to Omniverse Server
- 3D Space sync with Nucleus
 - Live and bidirectional

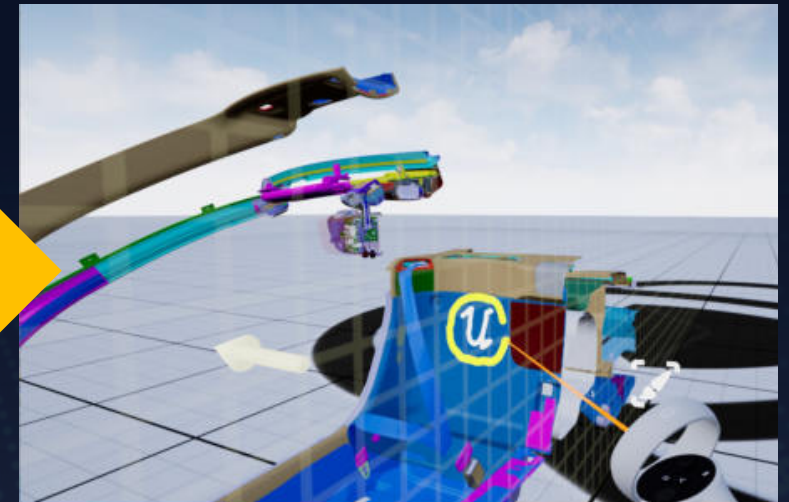




Empowering customers to develop industrial XR applications using live data



Synchronized



- instant3Dhub Unreal engine plugin to develop desktop / VR applications.
- Fully featured source-available VR application as starting point for custom apps.
- Native Unreal Engine rendering enabled by progressive geometry streaming.



www.threedy.io