

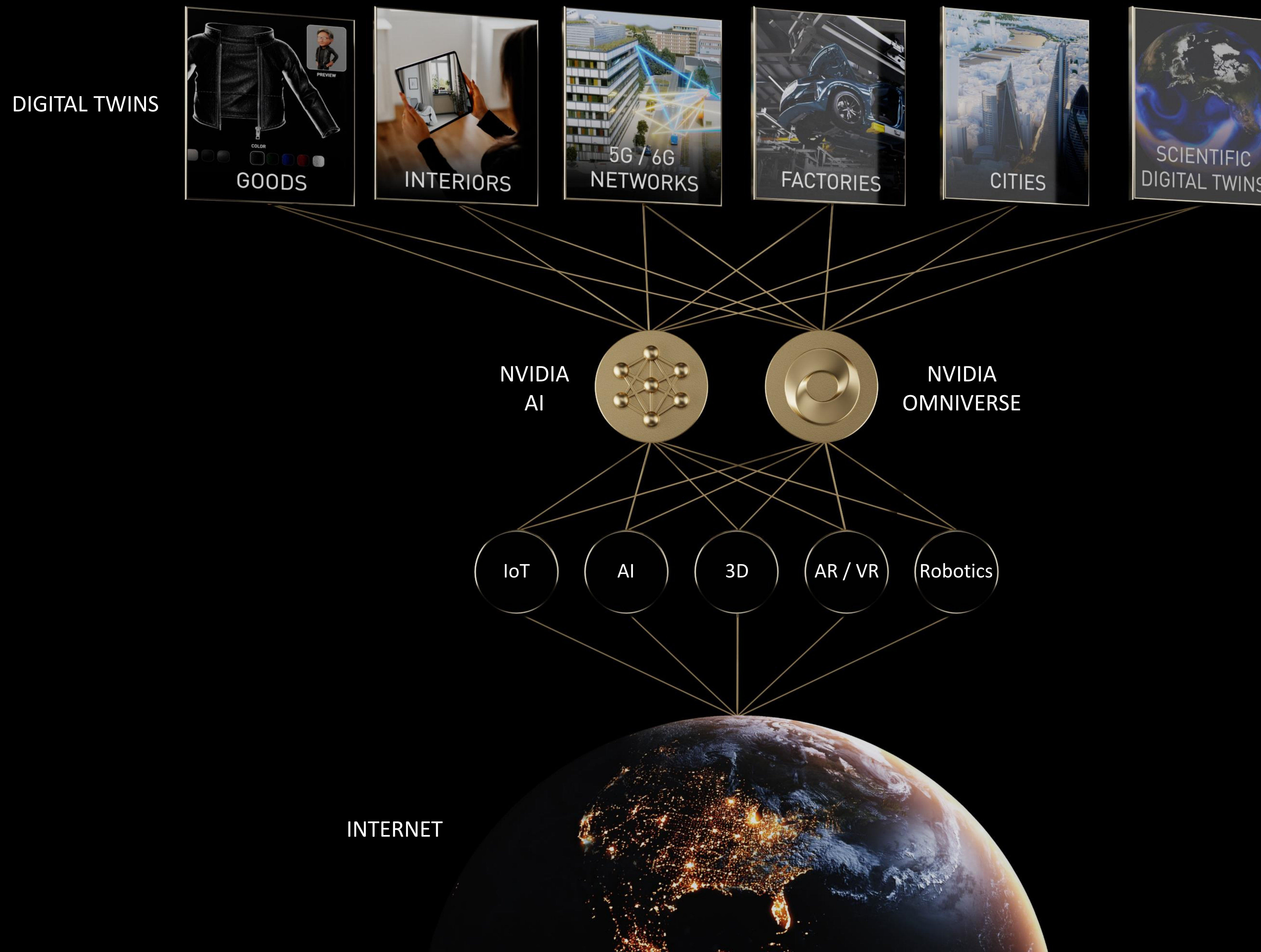


The Industrial Metaverse and AI: Shaping the next Generation of digital Transformation

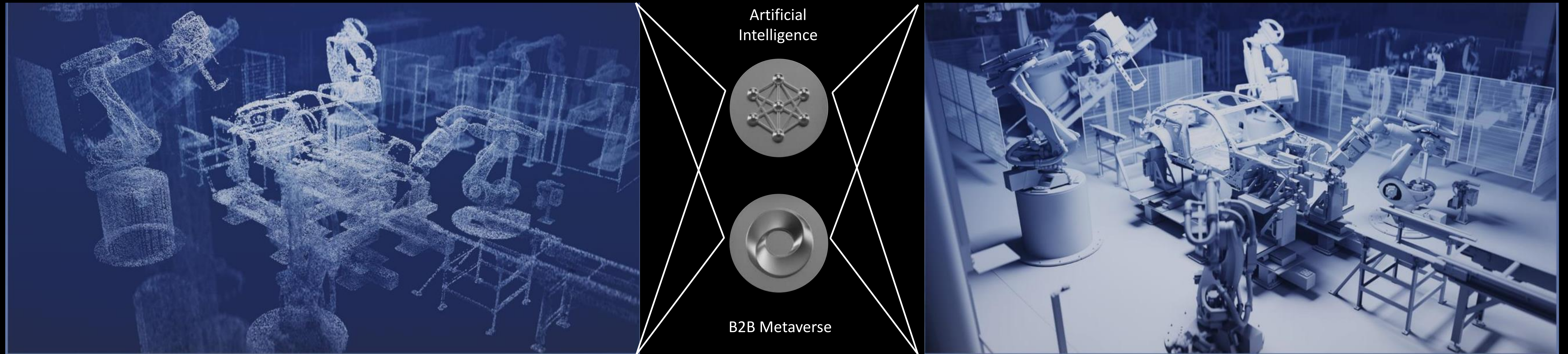
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THE METAVERSE IS THE 3D EVOLUTION OF THE INTERNET



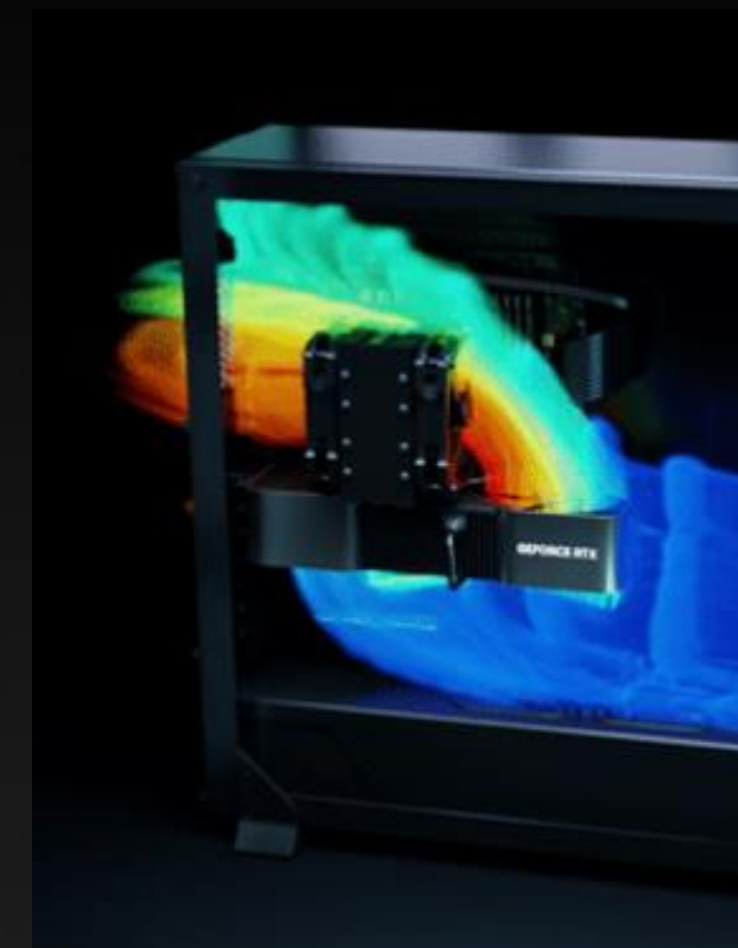
Industrial Enterprises are Racing to Digitalize



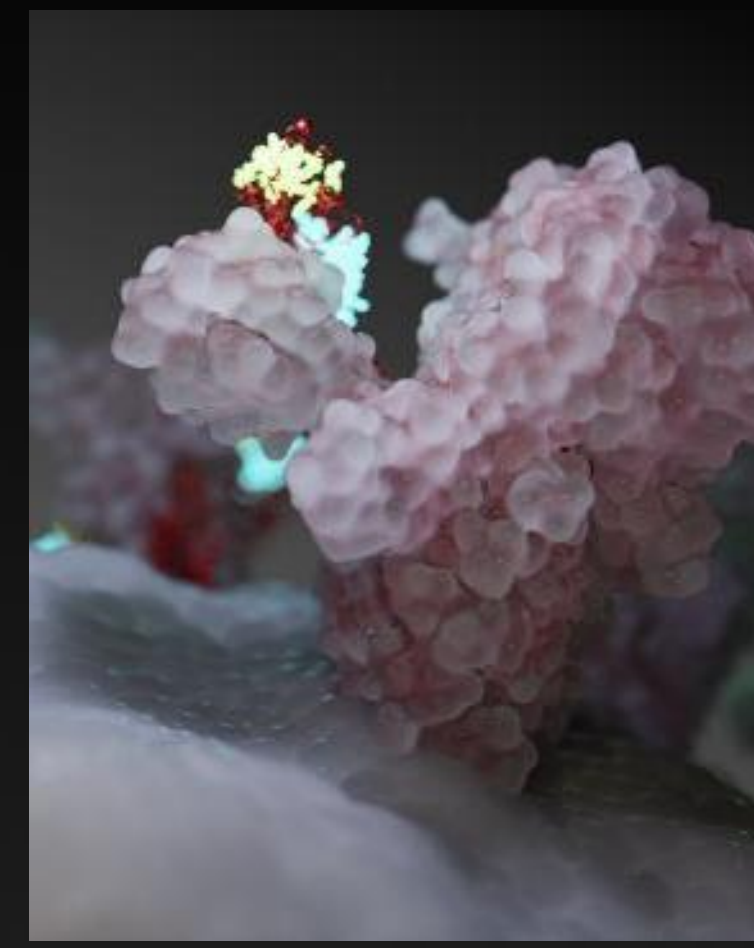
Automotive & Transportation



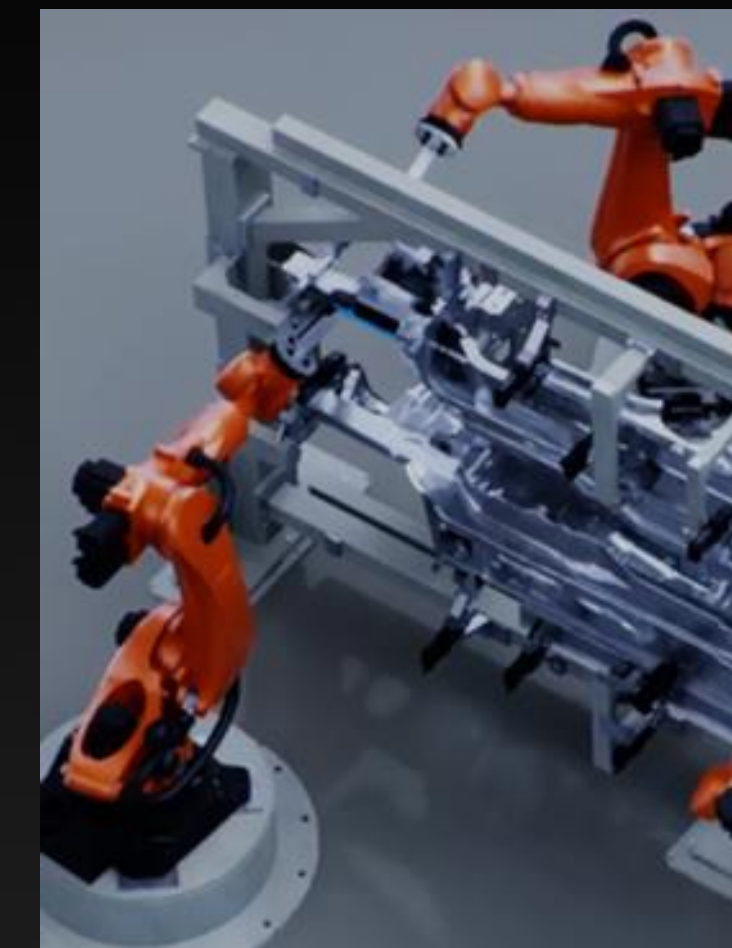
Electronics & Semiconductor



Healthcare



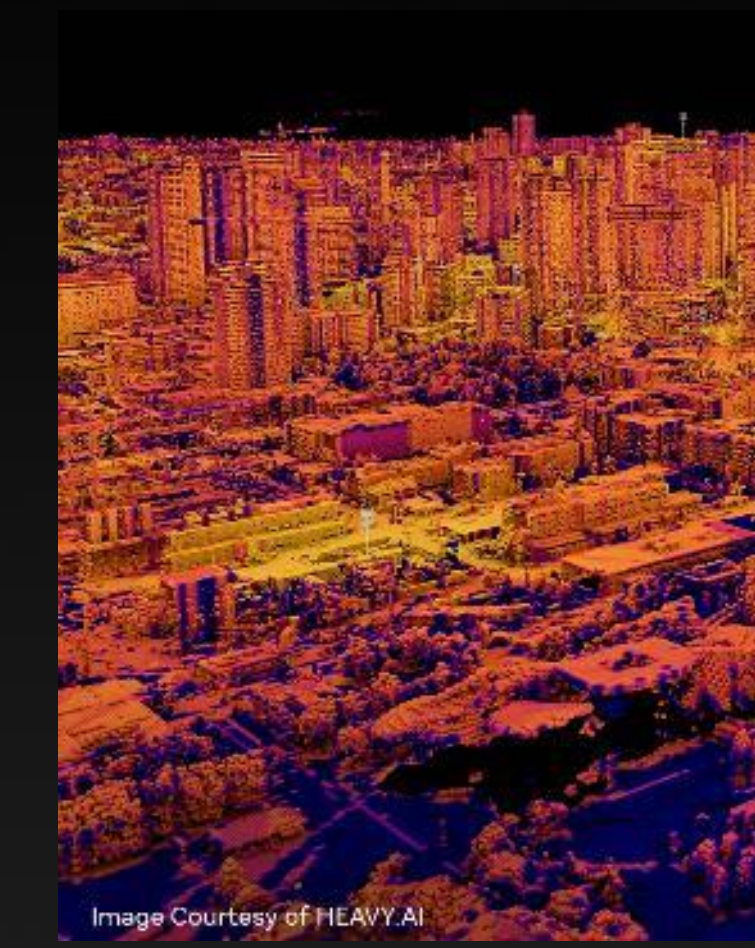
Manufacturing



Retail

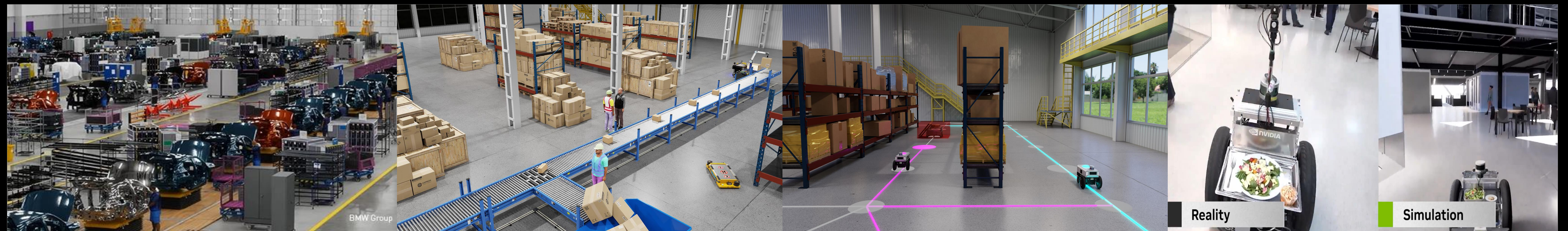


Telco



KEY ATTRIBUTES OF A LIVE, FULL FIDELITY DIGITAL TWIN

Enabling Accurate And Trustworthy Virtual Testing, Experimentation, And Optimization



GROUND TRUTH

Single Source of Truth for Virtual Datasets

PHYSICALLY ACCURATE REPLICA

Obeys the Laws
of Physics

AI-ENABLING, AI-ENABLED

Optimized by AI &
Enables Training of AI

PERFECTLY SYNCHRONIZED

Precision Timed, Perfectly Synced to the Real
World

OPEN 3D STANDARD FOR THE METAVERSE

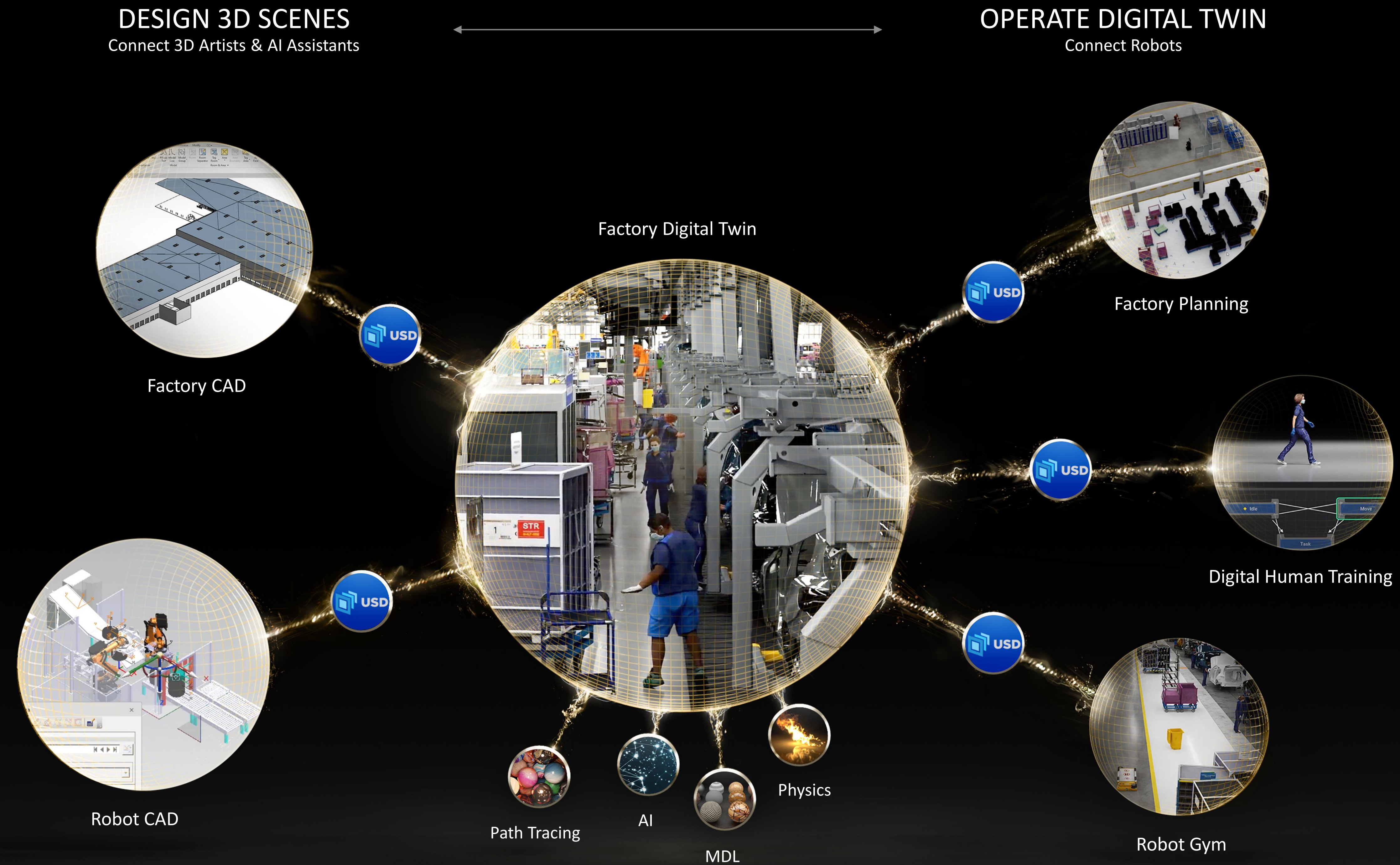
Universal Scene Description is the Best Candidate

Composed World



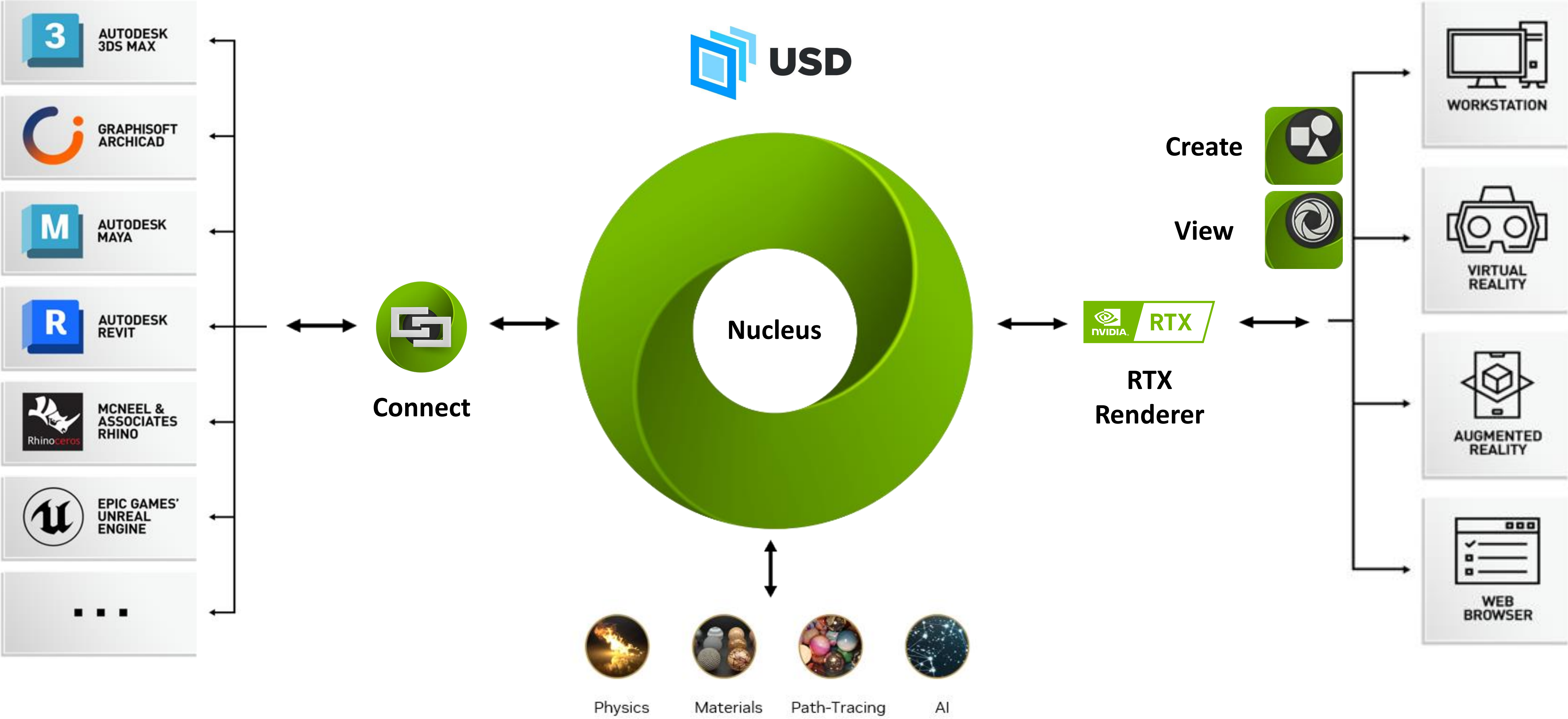
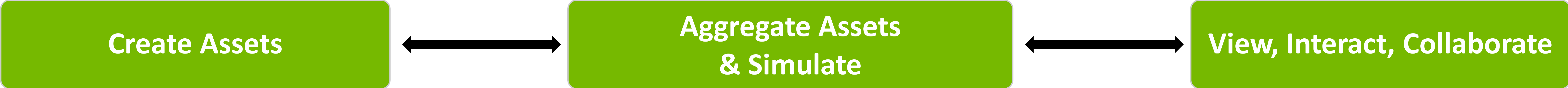
NVIDIA OMNIVERSE FOR INDUSTRIAL METAVERSE AND DIGITAL TWINS

Computing Platform for Creating and Operating Metaverse Applications



How Omniverse Enterprise Works

Create, Aggregate, Collaborate



Core Omniverse Tech



NVIDIA Drive Sim



Use Case/s

Complex Simulation and Digital Twins

Compute

Scale from workstation to supercomputer to enable complex simulation

Workflow

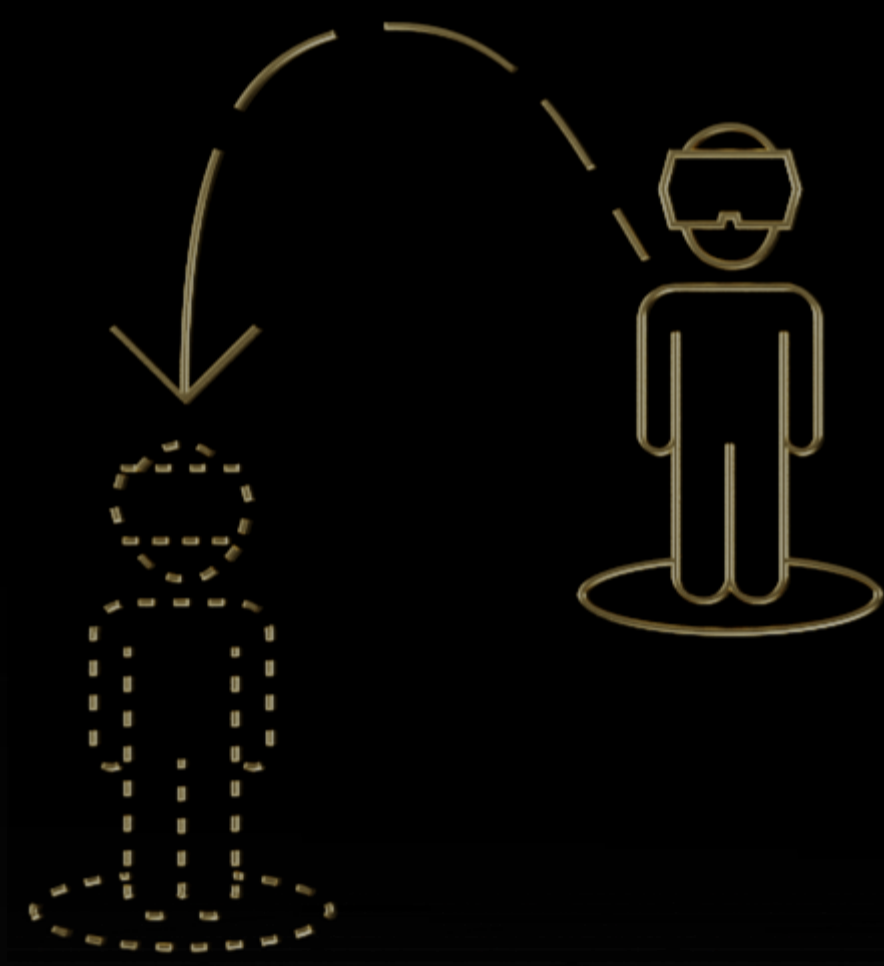
Ingest and visualize 3D models in full-fidelity in real-time, no optimization required

Digital Twin Software is Not a Game Engine

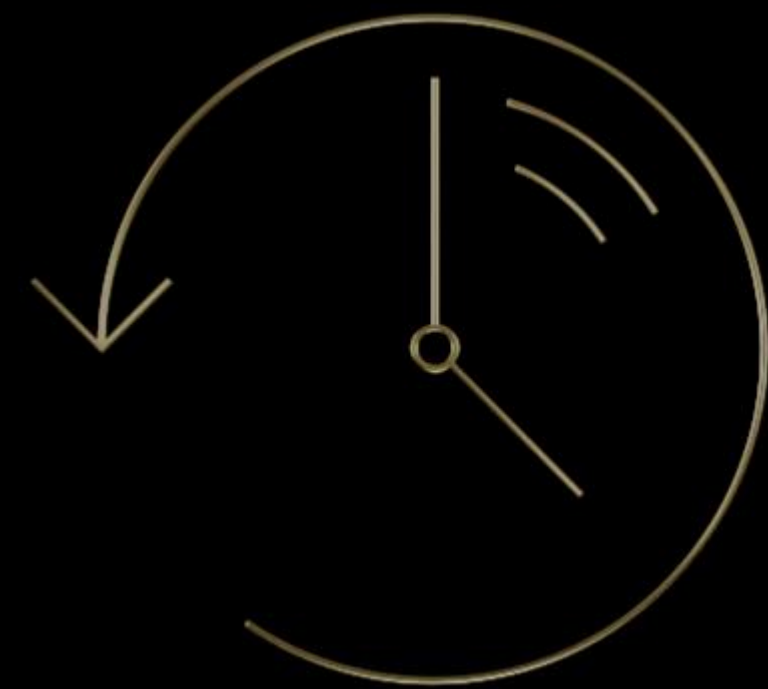
Complex Simulation Requires a Different Computing Approach

DIGITAL TWINS GIVE ENTERPRISES SUPERPOWERS

TELEPORTATION



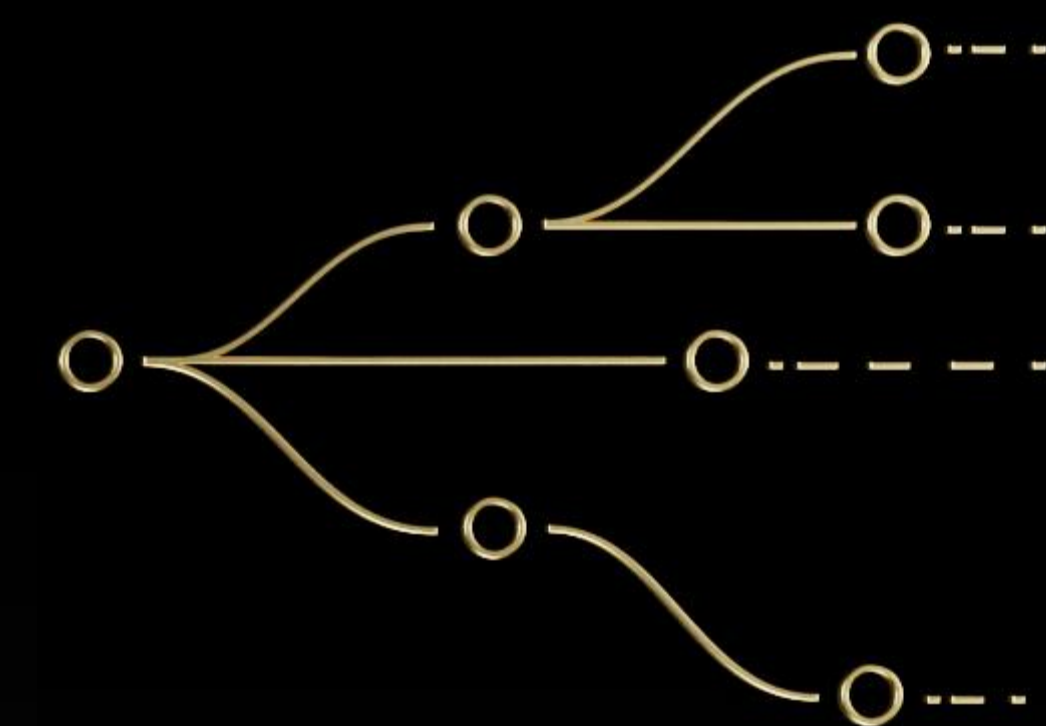
TRAVEL TO THE PAST



TRAVEL TO THE FUTURE

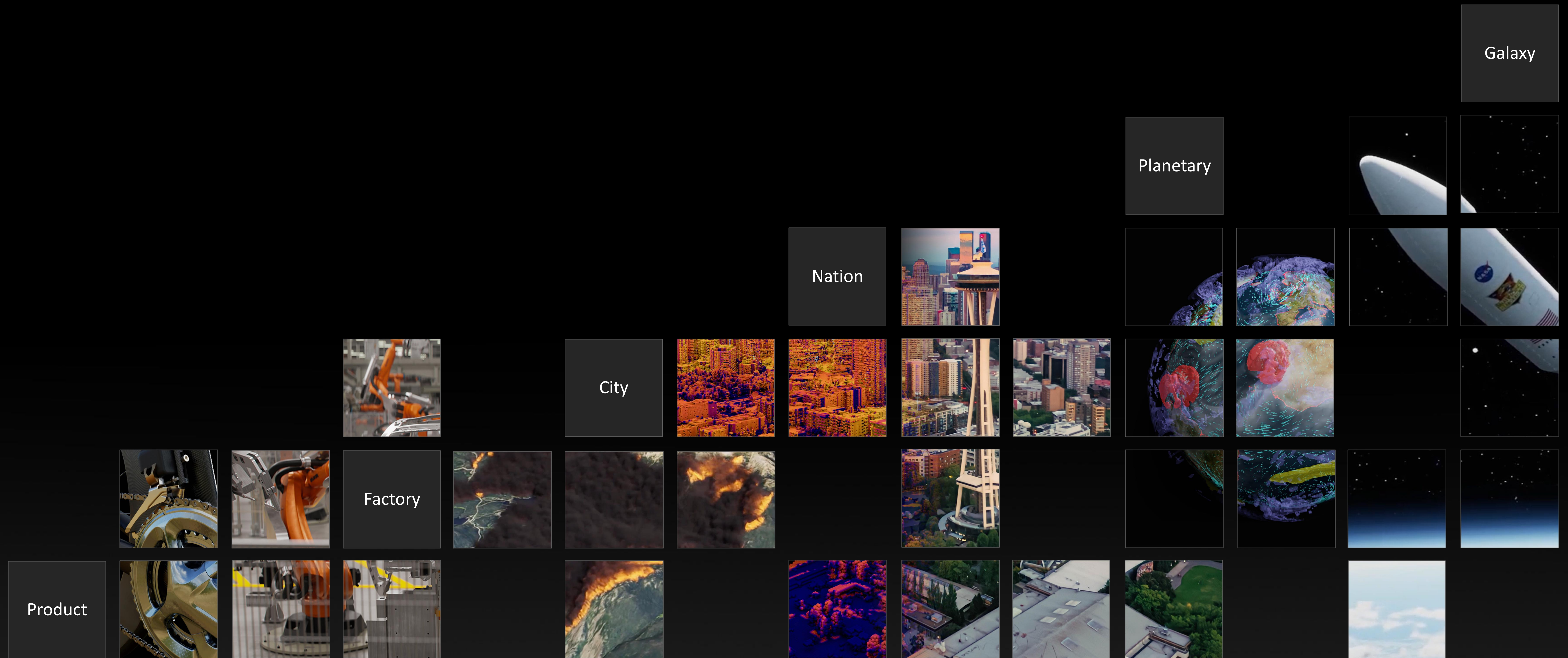


EXPLORE ALTERNATE FUTURES



INDUSTRIAL METAVERSE OPPORTUNITIES EXIST AT EVERY SCALE

Every physical process will be software-defined



AVATARS & DIGITAL HUMANS

HOW CAN I HELP?

Vision

Conversation

Speech

Planning & Action

Face Animation

Gesture

Realistic Graphics

Body Animation

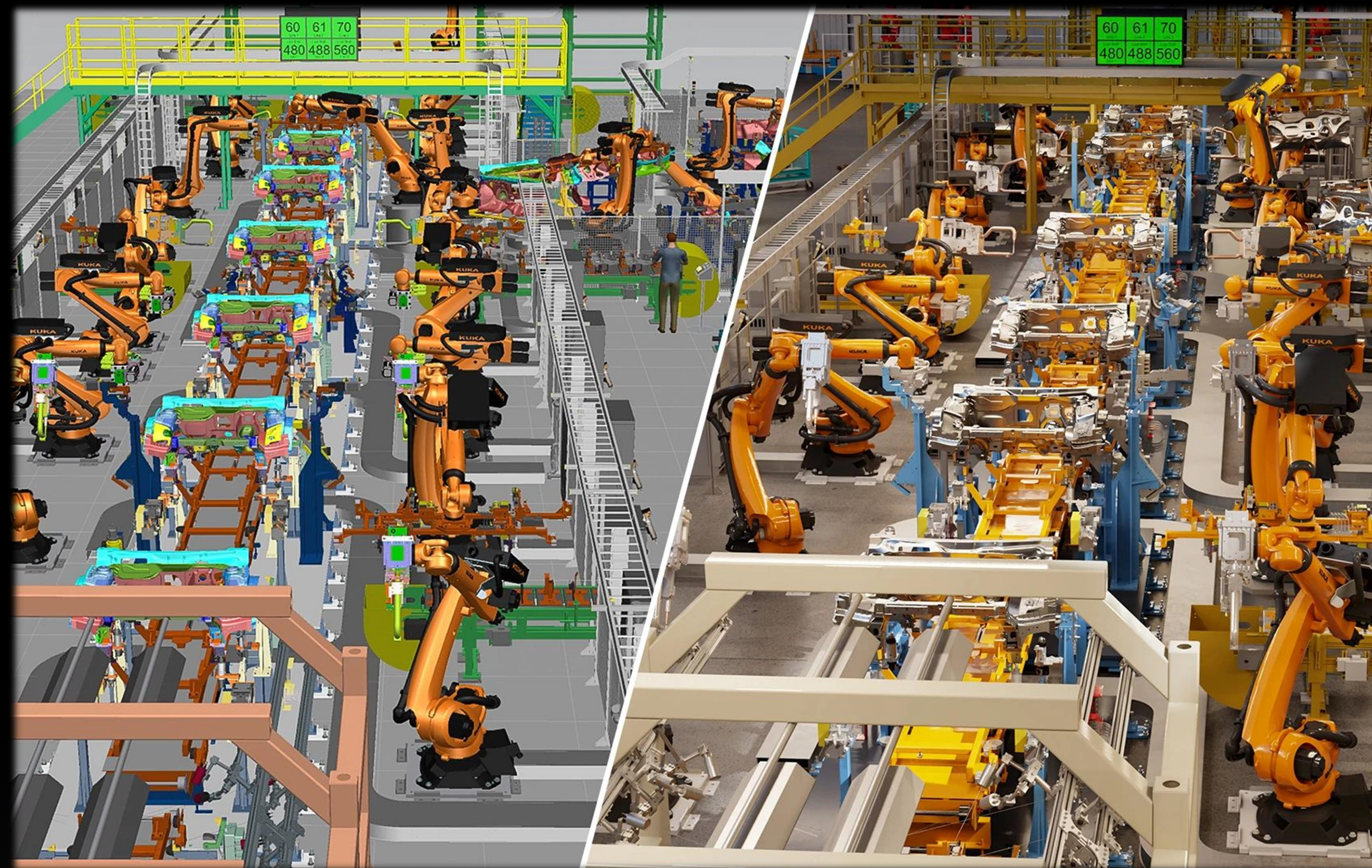




BMW Group



Siemens



Enabling Factory-Scale Simulation

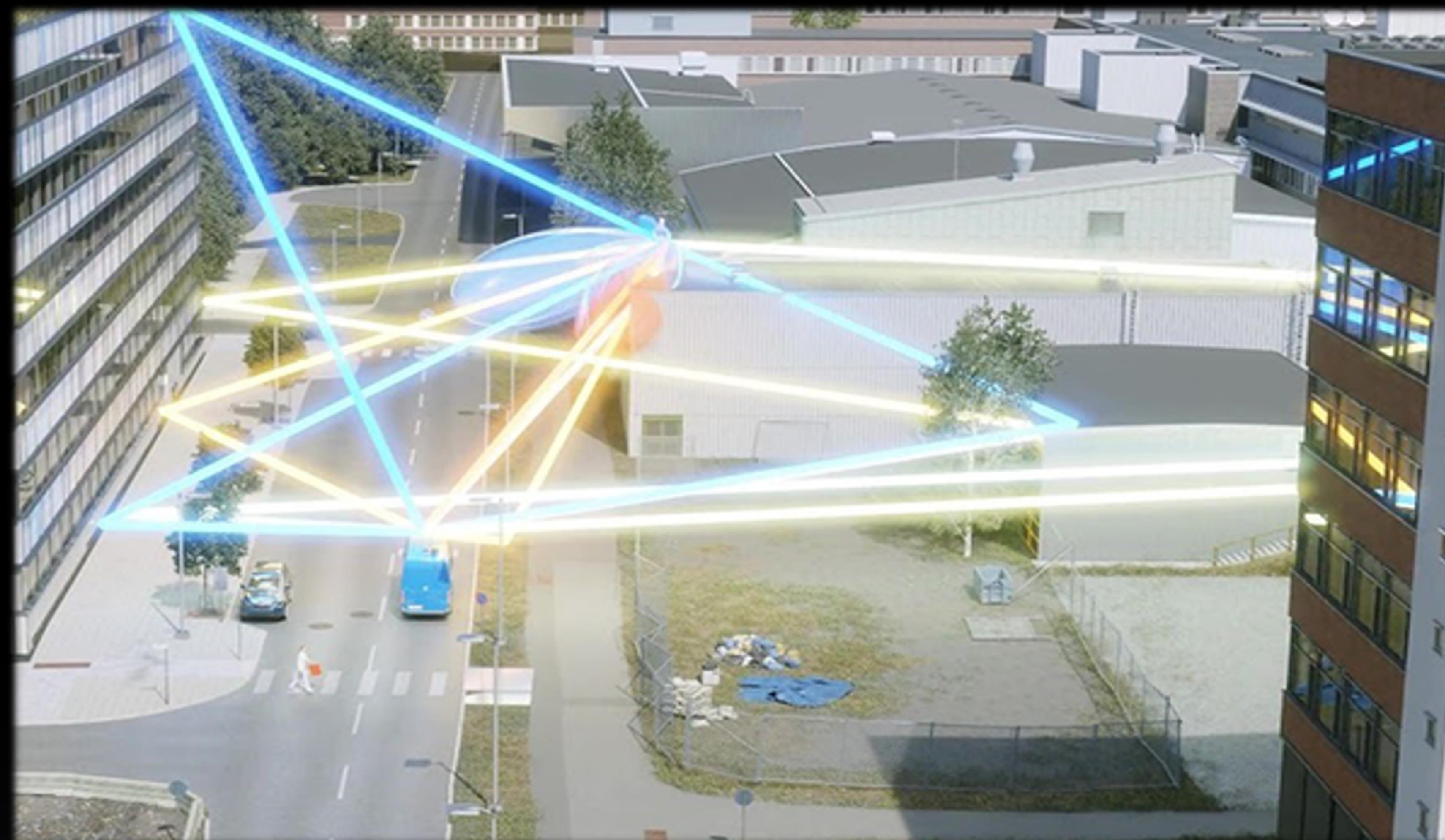
Transforming Factory Planning and Operations



Heavy.AI



Ericsson



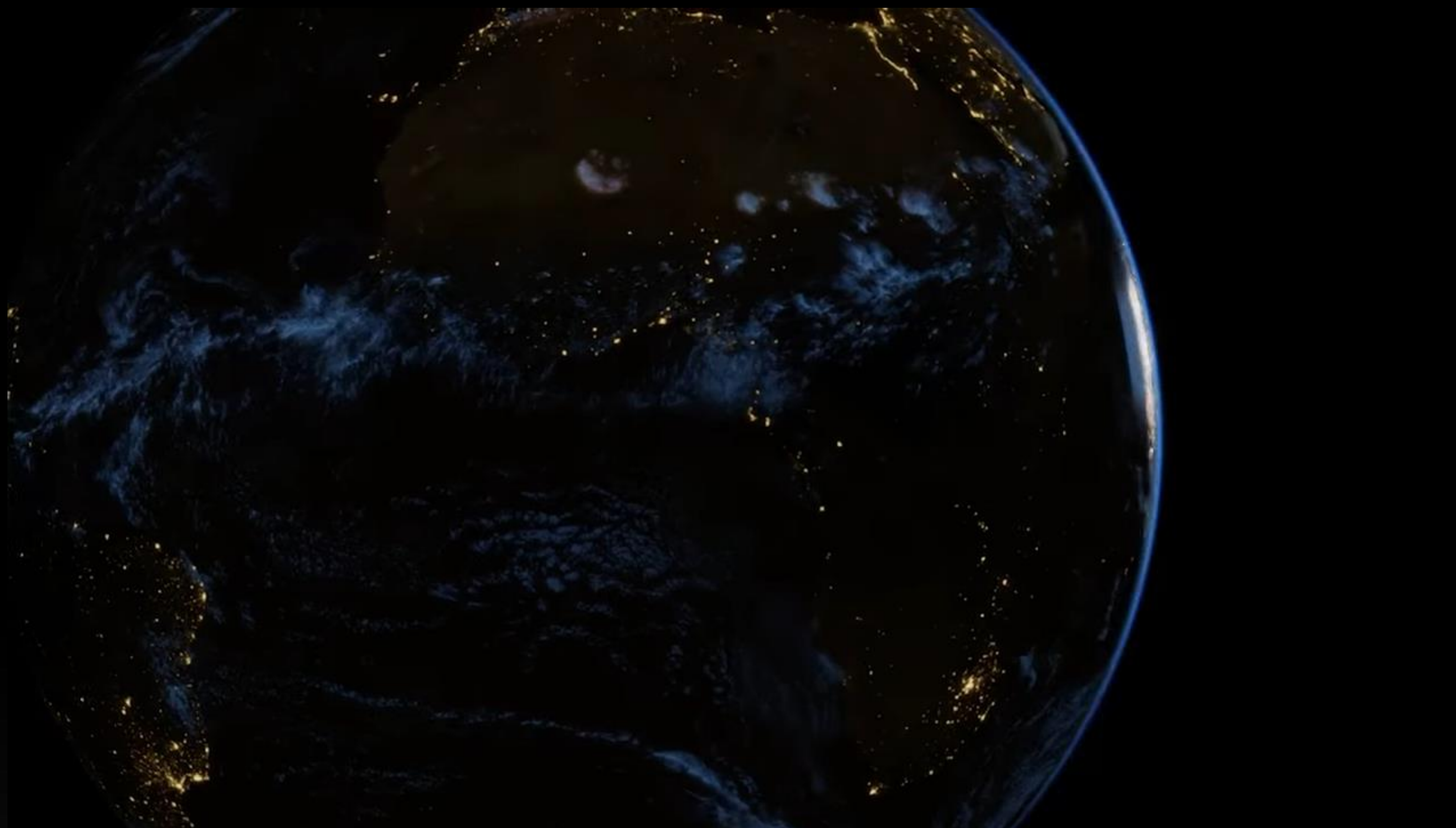
Enabling Network & City-Scale Simulation

Optimizing Design and Accelerating Deployment of Physical Infrastructure





NVIDIA Earth 2.0



Enabling Planetary-Scale Simulation

Understanding, Predicting, and Monitoring Weather Patterns and Climate Change

METaverse AND DIGITAL TWINS WILL EXIST FOR EVERY APPLICATION

Autonomous or Teleoperated – Realistic, or Fantastical

GAMING



CUSTOMER SERVICE



HEALTHCARE

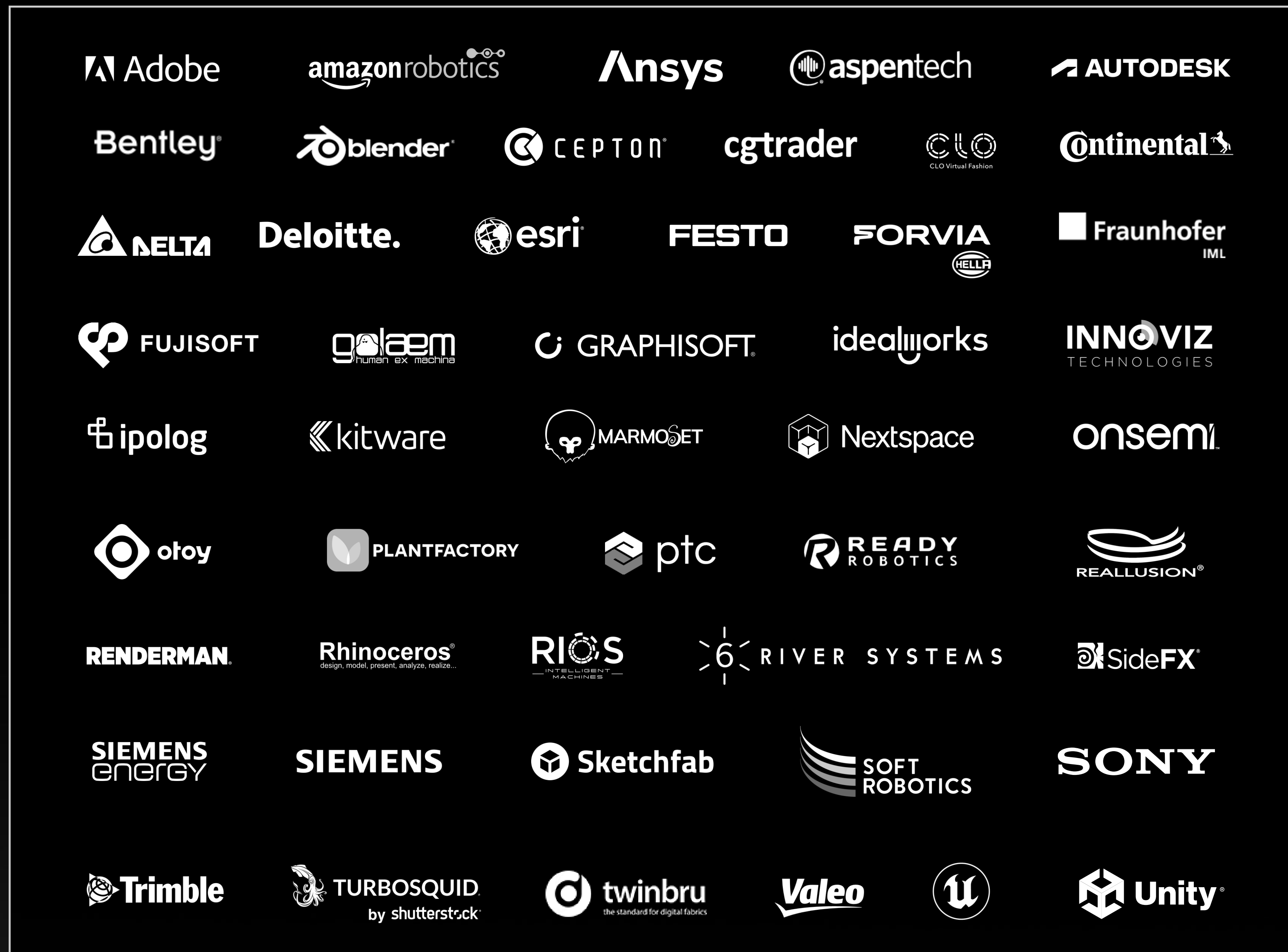


WEB CONFERENCING



Omniverse is Already Connecting the World's Industries

Building the Metaverse Together



Software Partners

Over 150 Universal Scene Description (USD) Connections Across Industry Applications



Adopters

Across Transportation, Retail, Manufacturing, Energy, Telco, and More

