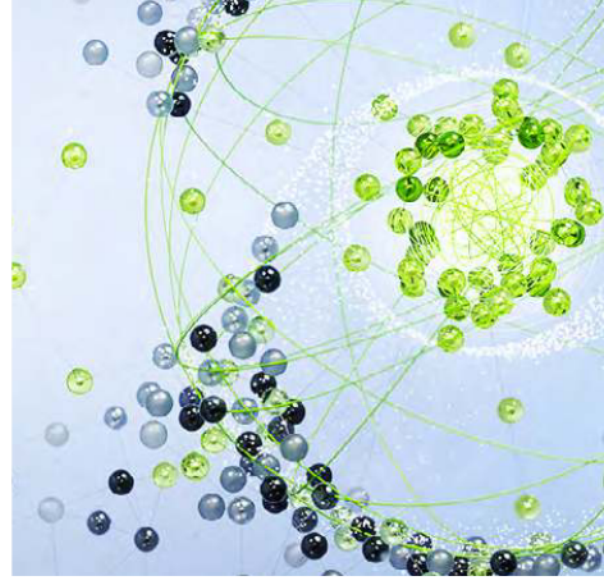




NVIDIA Omniverse Enterprise

Connect 3D workflows and develop industrial digitalization applications with Universal Scene Description (OpenUSD).



The Challenges of Today's 3D Workflows

Industrial enterprises are racing to reinvent themselves into software-driven tech companies—to be the disruptor and not the disrupted. The rise of Universal Scene Description (OpenUSD), scalable accelerated computing, and AI introduces new opportunities for industrial enterprises to digitalize their physical processes.

But today, digitalization is complex. Enterprise teams need a solution to navigate the complexities of:

- > Globally spread, highly skilled teams
- > Siloed data and incompatible software tools
- > Increasing demand for persistent, generative AI-enabled real-time simulations

A Development Platform for Modern 3D Workflows

NVIDIA Omniverse™ Enterprise is a native OpenUSD software platform for connecting complex 3D pipelines and developing applications for industrial digitalization.

Connect Your Tools and Data

Unify your 3D tools and data with USD to break down information silos, minimize tedious data preparation, and supercharge collaboration across enterprise teams.

Develop Tools and Applications

Take advantage of easy-to-use developer tools to build advanced, real-time 3D applications that enable you to visualize and simulate your products, assets, and facilities in full design fidelity.

Key Challenges for Digitalization

- > **Legacy Infrastructure:**
Today 3D workflows require accelerated compute with scalable deployment.
- > **Incompatible Tools and Data Silos:**
Sharing data between existing tools is difficult, and data is often out of sync, disconnected, or inaccessible.
- > **Disconnected Teams:**
Teams are increasingly geographically dispersed and collaboration across departments is often limited.

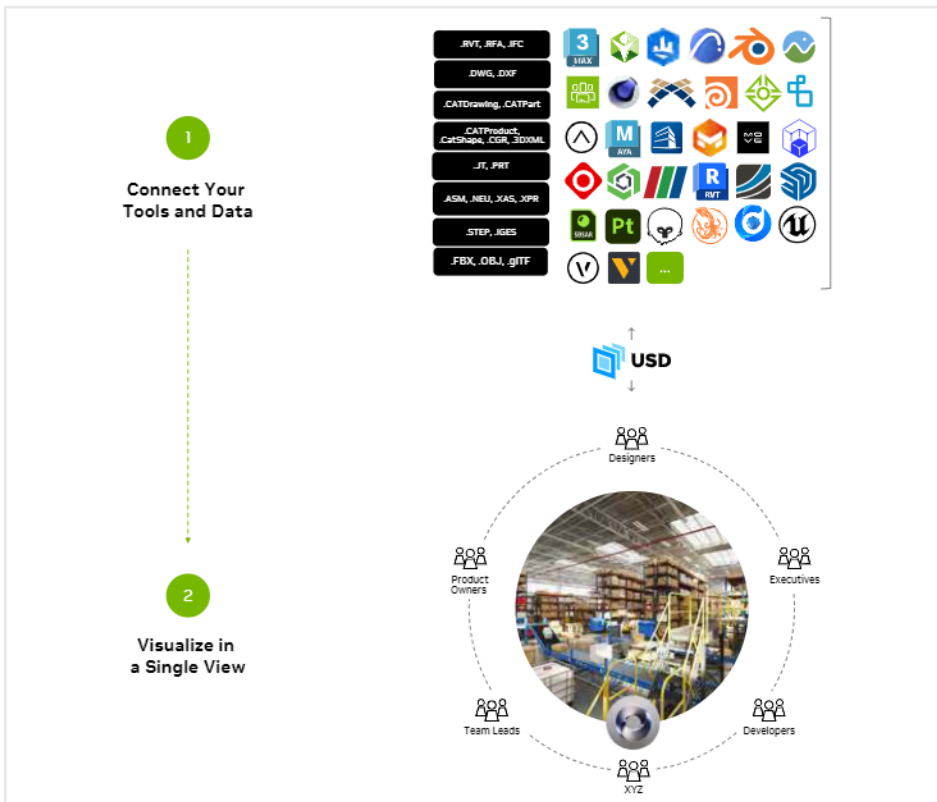


Figure 1. NVIDIA Omniverse unifies various 3D tools and data with USD and allows you to visualize and simulate in a single full-design fidelity view.

“We leverage a Universal Scene Description pipeline that aggregates native CAD from tools including Revit, Maya, AutoCAD, and Sketchup. These will enable our retail associates and planners to collaborate in real time to understand sales performance and identify anomalies. We can run CI/CD processes that test and validate thousands of store and product layouts before making any physical changes to our stores. With Omniverse, we are pulling store data together in ways that have never been possible.”

Seemantini Godbole, Chief Information Officer, Lowe's

Key Features

Data Interoperability

- Unlock nondestructive interoperable workflows
- Significantly decrease data transfer and import/export between tools

Ecosystem of Application Building Blocks

- Access Omniverse's rich catalog of industry-leading third-party extensions and connectors

Scalable Visualization and Simulation

- Create physically accurate visualizations and simulations of products and environments
- Reduce the time and costs of physical testing scaling through efficient use of resources to ensure manageability, availability, and infrastructure cost management

Easy-to-Use Developer Tools

- Quickly create and deploy custom workflows and apps without extensive programming knowledge
- Use foundation apps to get started and focus on building over coding

Built-In AI

- Automate repetitive tasks with predictive capabilities and natural language processing

Build the Next Era of 3D Applications on Omniverse

Easily unify 3D tools and data to supercharge collaboration across teams and build advanced, real time 3D applications to visualize and simulate your products or facilities in full design fidelity.

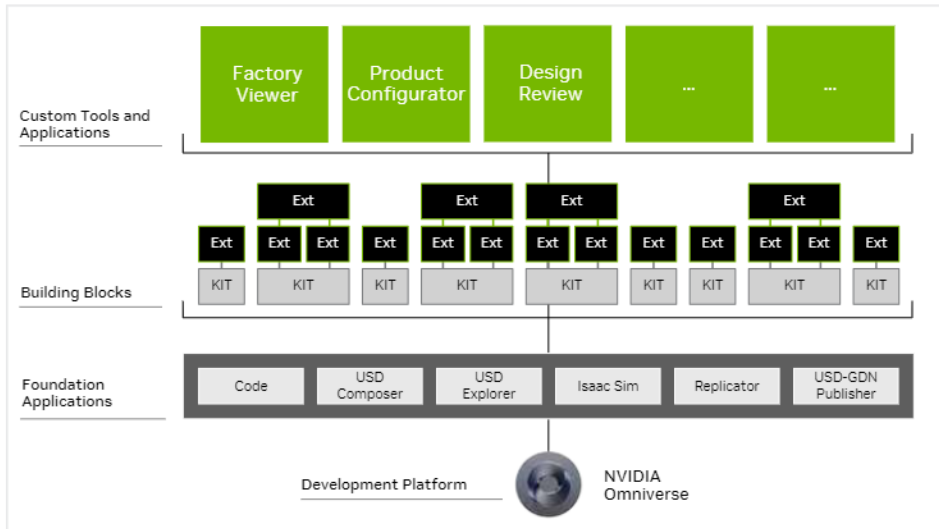


Figure 2. Bring your existing workflows into Omniverse by leveraging a rich catalog of industry-leading third-party extensions. Integrate your team's preferred tools seamlessly with proven applications and connectors created by NVIDIA and our partners.

“It all starts with planning—a complex process in which we need to connect many tools, datasets and specialists around the world. Traditionally we are limited as data is managed separately in a variety of systems and tools. Today we are developing custom Omniverse applications to connect our existing tools, know-how, and teams in a unified view.”

Dr Milan Nedeljković, Member of the Board of Management, BMW AG

Omniverse in Action

From concept design for animated movies, to industrial digital twins of factories, Omniverse Enterprise is transforming the way teams approach building and operating metaverse applications.

Customer	Results	Key Benefits
	9% Improved model accuracy	<ul style="list-style-type: none"> > Generated large photoreal synthetic datasets > Increased perception system accuracy > Accelerated development time from months to days > Watch demo
BMW GROUP	98% Reduction in design freeze time	<ul style="list-style-type: none"> > Accelerated design reviews > More efficient planning processes > Read case study > Watch demo
Mercedes-Benz	50% Reduction in coordination processes	<ul style="list-style-type: none"> > Accelerated assembly hall construction > Energy savings > Read blog > Watch demo
	4X More creative iterations	<ul style="list-style-type: none"> > Omniverse extension library saved weeks in development time > Files now sync in minutes versus days compared to previous workflow > Read case study > Watch demo

Deployment



Our range of enterprise-ready NVIDIA-Certified Systems™ are purpose-built to handle scale and complexity and are tested and optimized to run Omniverse workloads and applications. For a turn-key solution, NVIDIA RTX 6000 Ada Generation GPUs bundled with NVIDIA Omniverse Enterprise are now available.

Learn more: www.nvidia.com/en-us/omniverse/platform/enterprise-systems.

Ready to Get Started?

To learn more about NVIDIA Omniverse Enterprise, visit:

www.nvidia.com/en-us/omniverse/enterprise

Contact Us at: www.nvidia.com/en-us/omniverse/contact

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