



## Ansys to Integrate NVIDIA Omniverse

March 18, 2025

**Select NVIDIA Omniverse-powered features will be available for Ansys high-fidelity CFD and autonomous vehicle solutions in Q3 2025, with additional applications to follow**

### Key Highlights

- [Integrating NVIDIA Omniverse into Ansys software](#) will enable users to visualize simulation data in photorealistic digital environments, providing more intuitive engineering insights for applications in automotive, aerospace, electronics, healthcare, energy, and more
- The first Ansys solutions to newly incorporate NVIDIA Omniverse APIs and Omniverse Kit App Streaming will be [Ansys Fluent®](#) fluid simulation software and [Ansys AVxcelerate Sensors™](#) autonomous vehicle sensors

PITTSBURGH, March 18, 2025 /PRNewswire/ -- [Ansys](#) (NASDAQ: ANSS) today announced it will offer advanced data processing and visualization capabilities, powered by integrations with [NVIDIA Omniverse](#) within select products, starting with Fluent and AVxcelerate Sensors. These integrations will streamline simulation processes by automating manual data preparation and enabling high-fidelity models for deeper insights. This reduces the need for simulation experts to translate results to decision makers, product stakeholders, and potential customers.



Preparing large volumes of data for simulation entails ensuring its quality, interoperability, and flexibility. This typically means users are working across multiple software programs to prepare parameters for just one simulation model. Moreover, once the model is parametrized, additional specialized tools and expertise are often required for visualization.

By leveraging Omniverse technologies, Ansys software facilitates interoperability, scalability, and modularity of 3D scene data within a rich, open ecosystem. Integrating Omniverse technologies with Ansys products will enable customers to easily prepare simulation data — particularly useful for AVxcelerate Sensors applications. Ansys users can render immersive, photorealistic models within the Ansys interface, supporting real-time collaboration and improving communication of results. Moreover, PyAnsys, a family of Python packages that enable users to interact with Ansys products, automatically formats simulation data so simulation practitioners and developers can easily customize and automate simulations inside their own applications built on NVIDIA Omniverse.

For example, Astec Industries, a leading global manufacturer of specialized equipment for asphalt road building, aggregate processing and concrete production, uses Ansys to design and optimize asphalt drum dryers and hydrogen burners.

"The integration of Omniverse technologies within Fluent allows us to visualize complex physics simulations that give us and our customers intuitive insight into how our equipment operates in stunning detail," said Dr. Andrew Hobbs, director of advanced technologies at Astec Industries. "Simulating environments inside our equipment where physical observation is impossible not only enhances our perspective of how our products will operate in the real world, but it allows us to optimize our designs for performance and efficiency, delivering innovative equipment and a competitive advantage to our customers."

"Modern digital engineering increasingly relies on technology compatibility to design intuitive, efficient, and innovative products," said Shane Emswiler, senior vice president of products at Ansys. "By continuing to deepen our collaboration with NVIDIA, we're empowering our customers to bring their simulations to life and obtain insights that could've otherwise not been possible to obtain. To do that easily in the familiar Ansys interface can significantly improve project timelines and get products to market faster."

"Combining the power of Omniverse's visualization capabilities with the predictive accuracy of Ansys products creates a powerful digital engineering environment that will expand access to simulation insight," said Rev Lebedarian, vice president of Omniverse and simulation at NVIDIA.

[Visit Ansys at NVIDIA GTC](#) in San Jose, CA March 18-21, Booth #224 to learn more about its advanced physics solvers and see exciting demonstrations.

## About Ansys

Our Mission: Powering Innovation that Drives Human Advancement™

When visionary companies need to know how their world-changing ideas will perform, they close the gap between design and reality with Ansys simulation. For more than 50 years, Ansys software has enabled innovators across industries to push boundaries by using the predictive power of simulation. From sustainable transportation to advanced semiconductors, from satellite systems to life-saving medical devices, the next great leaps in human advancement will be powered by Ansys.

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