3DEXPERIENCE DISCOVERY DAY 2026

AI SUMMARY

PANEL DISCUSSION | TECHNOLOGY AT SCALE: TURNING COMPLEXITY INTO SPEED AND PRODUCTIVITY



KEY TAKEAWAYS

Accelerating Simulation with AI While Preserving Physics

Rethinking Data Management with AI

Balancing Speed, Safety and IP in AI Adoption

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DASSAULT SYSTEMES

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Panel Discussion | Technology at Scale: Turning Complexity into Speed and Productivity
Thursday, November 12, 2026

SUMMARY

The panel explored how emerging AI, simulation, and virtual-world technologies can turn growing product and organizational complexity into greater speed and productivity. The moderator framed the discussion around translating the promise of AI and virtual twins into real business impact at scale. Three practitioners from very different industries compared experiences, highlighting both rapid gains in efficiency and significant challenges around trust, regulation, data, security, and energy use. Together they sketched a pragmatic route from experimentation toward responsible, large-scale deployment.

One contributor described a manufacturing company that already runs extensive physics-based modeling and simulation to design and optimize products. These calculations can take hours, days, or even weeks, so the team is introducing machine learning models that approximate results with a fraction of the compute cost. In many cases they accept slightly lower accuracy for tenfold productivity gains, using AI to screen options and reserving traditional simulation for finalists. This creates a powerful but partly opaque “black box” that still must be validated.

Another panelist, from a renewable-energy engineering firm, saw AI mainly as a way to do far more work with very few people. For them, technology choices are existential: every design decision and every prototype test can put the company at risk. They are beginning to use AI to accelerate simulation and analysis, but remain cautious about relying on secondary opinions when structural integrity and safety are critical. New graduates adept with modern tools become productive quickly and help diffuse capabilities across the organization.

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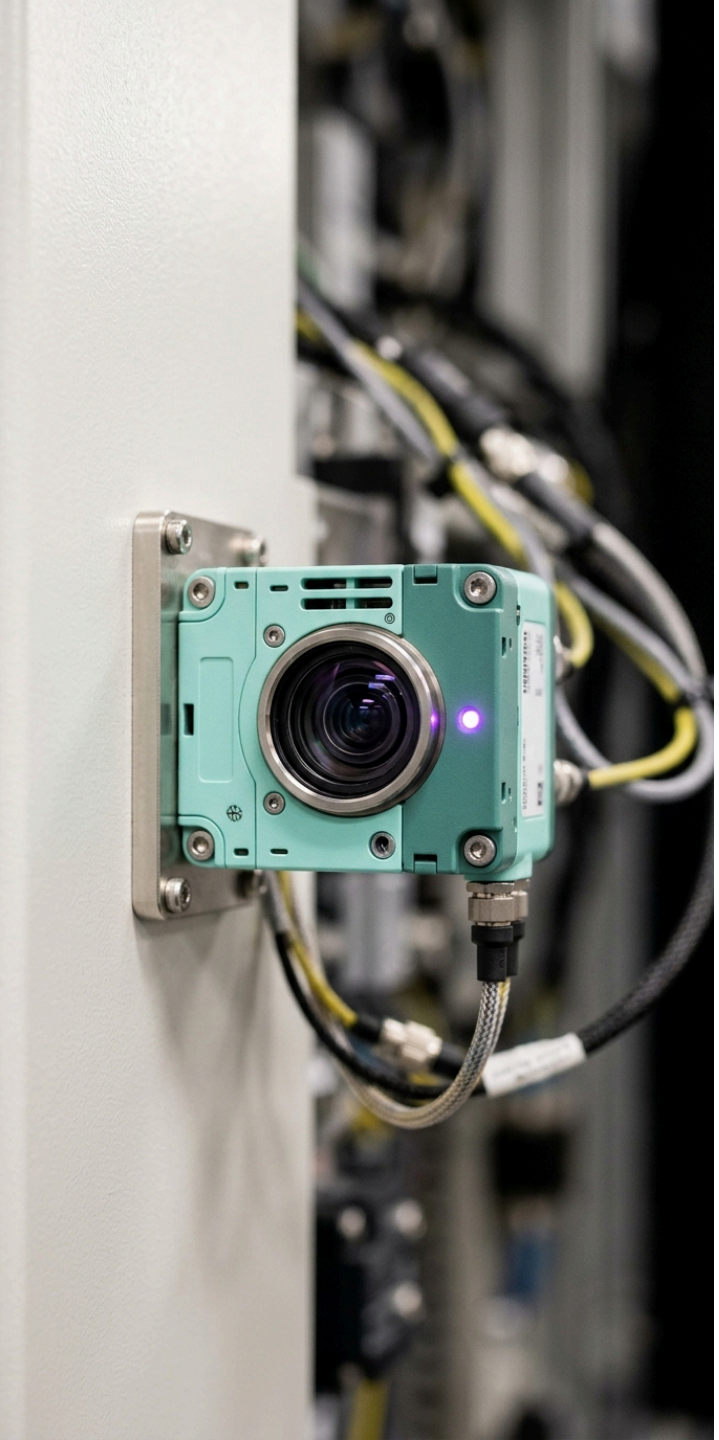

Panel Discussion | Technology at Scale: Turning Complexity into Speed and Productivity
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Another panelist, contrasted life in a consumer brand with leading a small, fast-moving technology startup that builds virtual worlds for automated systems. In the past, transferring film and gaming techniques into retail required slow change and extensive coordination with legal, security, and operations teams. Now, they use AI coding assistants to prototype pipelines at speed, then hand deterministic implementations to engineers. This shifts power toward domain experts, creates tension with IT over responsibility and security, and demands new ways of organizing work.

The conversation then turned to systemic barriers. Growing demand for AI computation raises questions about how societies allocate electricity and other resources, especially in regions where basic electrification competes with data-center construction. At the same time, poor data quality and scattered storage remain everyday problems. Panelists stressed the need for structured, traceable “virtual threads” linking lab measurements, machine settings, customer conditions, and environmental factors. They see AI as a crucial tool for cleaning, connecting, and governing this data across complex value chains.

Finally, the panel examined how to scale responsibly while protecting intellectual property, safety, and regulatory compliance. One organization avoids software-as-a-service tools, fearing leakage of sensitive designs, yet acknowledges that competitors may gain advantage by embracing AI more aggressively. Others described merging security and technology leadership, and changing narratives as non-IT teams begin coding with AI support. Across contexts, they argued that success depends less on tools than on managing people, culture, and risk so innovation can proceed without sacrificing trust or quality.

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Accelerating Simulation with AI While Preserving Physics

Participants described replacing traditional physics simulations with machine-learning surrogates that deliver 90–95 percent accuracy at 1 percent of the compute time. Engineers use AI to pre-screen options, then run detailed simulations only on the most promising designs, achieving around tenfold productivity gains.

Rethinking Data Management with AI

One participant stressed that data structures, ad-hoc emails and fragmented test records block simulation and scaling. They are deploying AI and large language models to clean, link and backtrack lab, machine, customer and weather data, creating a thread across the value chain.

Balancing Speed, Safety and IP in AI Adoption

Speakers highlighted that adopting AI at scale is a balancing act. Organizations must move fast to stay competitive while protecting intellectual property, meeting safety and regulatory demands, and managing energy use. It forces new structures, with domain leaders owning security and AI-assisted coding.



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