



vScenario Encourages Businesses To Explore Its Digital Twin Technology

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vScenario, a technology company with offices all across the United States, is encouraging businesses and professionals to try out and learn more about its Digital Twin Technology. The company claims that the technology can empower businesses to solve architecture, engineering, and construction problems before they happen.

According to vScenario, a virtual or digital twin allows the analysis of data to be applied to the physical world in order to research, create, test, build, reconfigure, or imagine any potential scenario that may occur. It claims that the technology bridges the gap between the physical and digital world by being a virtual replica of a physical thing or place. According to them, it can also be used to monitor, diagnose, and optimize any performance.

vScenario already uses digital twin in design, construction, building analysis, and scenario training development of a specific place, location, or building. The company claims that the aid of a digital twin in structural and civil engineering can identify building shifts overtime. They say that digital twins help solve architecture, engineering, and construction problems before they happen.

According to vScenario, utilizing reality capture in a pre-design phase allows for highly specialized engineers to analyst data in real-time and act on insight rather than intuition. The end result, the company says is that their technology-based solution saves project dollars. vScenario's use of virtual technology in the development of a building design aids their structural and civil engineering. Creating a digital twin replica of an area or building before it is built optimizes the operations maintenance and troubleshoots potential problems.

Joseph Rietman, president of the company, says, "The concept behind the technology is not new. In the early days of space exploration, NASA used a form of a digital twin in order to operate, maintain, or repair a system that was not within close proximity of all the engineers. They even used the technology during the ill-fated Apollo 13 mission. The success of bringing the Apollo 13 crew back to earth alive is a testament to how a virtual twin is a necessary technology tool. Digital twins can be used in a variety of scenarios such as design, system integrations, diagnostics, prediction, and advanced services."

Explaining the science behind the Digital Twin Technology, Joseph says, "A digital twin is a digital representation of a physical object or process that can be used for various purposes, and is a virtual model that reflects physical objects and processes throughout their life cycle. Internet of Things (Internet of Things) devices and provide digital representations for them to operate and live. There are no generally accepted definitions, but the technology behind digital twins has expanded to a wide range of applications, from data science to data analysis to production. To further develop the concept, we can say that all people and processes can have a digital twin that further expands this concept. Although many definitions of a "digital twin" already exist, a quick look at some of the companies offering Digital Twin technology shows the breadth of opportunities available to professionals in the digital twin space."

When asked about the possible ways in which businesses can utilize the technology, Joseph says, "The digital twin replicates status and behavior by sharing and integrating information about the current state of the product or service, as well as its performance and maintenance. Companies can use digital twins to analyze and monitor data, to prevent problems before they occur, to avoid downtime, and even to simulate future circumstances or events. Digital twins use cases are testing and simulation of product designs that meet the requirements, showing how changes in manufacturing processes can affect costs and schedules, or how service personnel can perform maintenance in the present."

When asked about the technology's viability, Joseph says, "The threshold cost of setting up a digital twin is estimated at around \$50,000, and the use of digital twins saves companies 20-30% of development costs on average, making it a high-tech system that would conventionally cost twice as much to implement as a

traditional production system.?

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Our patent pending virtual technology applications deliver the platform where the building program functionality and execution plans are tested through v(virtual) scenarios prior to construction.

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