Nemetschek Group and Hexagon announce strategic collaboration

The Nemetschek Group and Hexagon's Geosystems division are poised to establish a strategic partnership aimed at accelerating the digital transformation of their industries. As a crucial initial step, the partnership endeavours to drive the adoption of digital twins by offering customers a seamlessly integrated end-to-end workflow for efficient and sustainable building operations. The Nemetschek Group is a leading software provider for the architecture, engineering and construction (AEC) and operations industries. Hexagon Geosystems is a global leader in digital reality solutions.

While huge amounts of data are created during the lifecycle of a building, much of this valuable information resides in silos and becomes outdated over time. Such incomplete and archaic information leads to poor and error-prone decisions, which negatively affect a building's performance and increase operational costs. Both Nemetschek and Hexagon firmly believe that digital twins are instrumental in transforming the industry and overcoming the challenges faced by building owners and operators. A digital twin enhances visibility, increases efficiency and delivers data-driven insights.

New digital twin platform

Nemetschek's new horizontal, open and cloud-based digital twin platform called dTwin delivers data-driven insights and helps customers efficiently manage facilities from design to operations. It is the first solution in the industry that fuses all data sources of a building into one overarching view. dTwin brings together all relevant information from CAD/BIM, IWMS, and more, along with real-time streams from building operations, providing value through visualization, data analysis and asset management. With the platform, owners and operators can optimize building operations based on real-time information and data-funded decision criteria.

Hexagon leverages its end-to-end reality capture and Scan2BIM solutions to automatically capture accurate and real-time field data to create digital twins across all sectors. Furthermore, it employs AI-powered solutions to support building analytics and simulations, generate progress insights and provide an immersive experience navigating assets during design, construction and operations through its VR/AR and positioning technology.

Integrating reality capture solutions

Together, Nemetschek and Hexagon will equip customers with the tools, services and expertise for an end-to-end digital twin workflow by integrating up-to-date building data through Hexagon's latest reality capture solutions with the smart and efficient building operations powered by Nemetschek's dTwin.

"We are very excited to partner with Hexagon," said César Flores Rodríguez, chief division officer at the Planning & Design and Digital Twin department of the Nemetschek Group. "Together we will build digital twins for the large market of existing buildings, making those future-proof. Also, we aim to address efficient and sustainable building operations and smart renovation, retrofit or revitalization projects."

Thomas Harring, president of the Geosystems division at Hexagon, added: "The future is here – digital twins make work easier, insights available, and decisions better. With that, they are paving the way for a more sustainable future. Through our combined strength, we make this a reality for our customers and supercharge the buildings and infrastructure industry with data continuity and digital twins at scale."

The Nemetschek Group and Hexagon's Geosystems division are teaming up to accelerate digital transformation in the AECO industries.

By combining accurate building data and visual reality, information from CAD/BIM, IWMS, and real-time streams from building operations, a digital twin enables data-driven decision-making and true Building Lifecycle Intelligence.