Press Release

SpiraTec Sets a New Standard in Digital As-Built Planning

Intelligent Surfaces Created from 3D Point Clouds Boost Efficiency, Quality, and Transparency in Industrial Projects

Speyer, July 6, 2026. SpiraTec AG is consistently driving forward the digital transformation in industrial plant planning. The Industrial Engineering & Design (IED) department has successfully established an innovative technology that converts 3D point clouds from as-built scans into intelligent, seamless surfaces. The result is significantly more efficient planning processes, higher planning quality, and measurable added value for customers.

3D scans and the resulting point clouds map real industrial environments with the highest accuracy and have been an integral part of as-built planning at SpiraTec for years. In practice, however, the enormous volumes of data posed a challenge – for example, due to limited performance of software and hardware components, time-consuming coordination, and limited integration options with common planning tools.

Technological Advancement with Clear Customer Benefits

With the new conversion technology, millions of individual measurement points are processed into coherent, intelligent surfaces. This significantly reduces data complexity and creates a powerful, practical basis for planning.

“For us, the conversion of point clouds into intelligent surfaces is a key building block on the path to a fully digitized industry,” emphasizes Frank Schönel, Vice President of Industrial Engineering & Design at SpiraTec AG. “Only when digital as-built data is structured, high-performing, and consistently usable can we truly and efficiently integrate planning, engineering, and subsequent implementation. This technology brings us and our customers a decisive step closer to this goal.”

This results in numerous benefits for customers: planning models can be edited much more smoothly, project timelines are shortened, and overall efficiency increases. The clear surfaces also make it easier to identify interfering edges, bottlenecks, and complex pipe routing – allowing planning errors to be identified more quickly and reliably avoided.

Another advantage is the seamless integration into existing planning systems: The generated surfaces can be imported directly into common tools – without time-consuming workarounds or repeated exports. Collaboration on projects is also simplified, for example through clear visualizations in digital reviews or online meetings.

New Perspectives for Modern Industrial Projects

Beyond optimizing existing planning processes, the technology opens up additional application possibilities, including automated collision checks, scan quality assessment, and the virtual masking of

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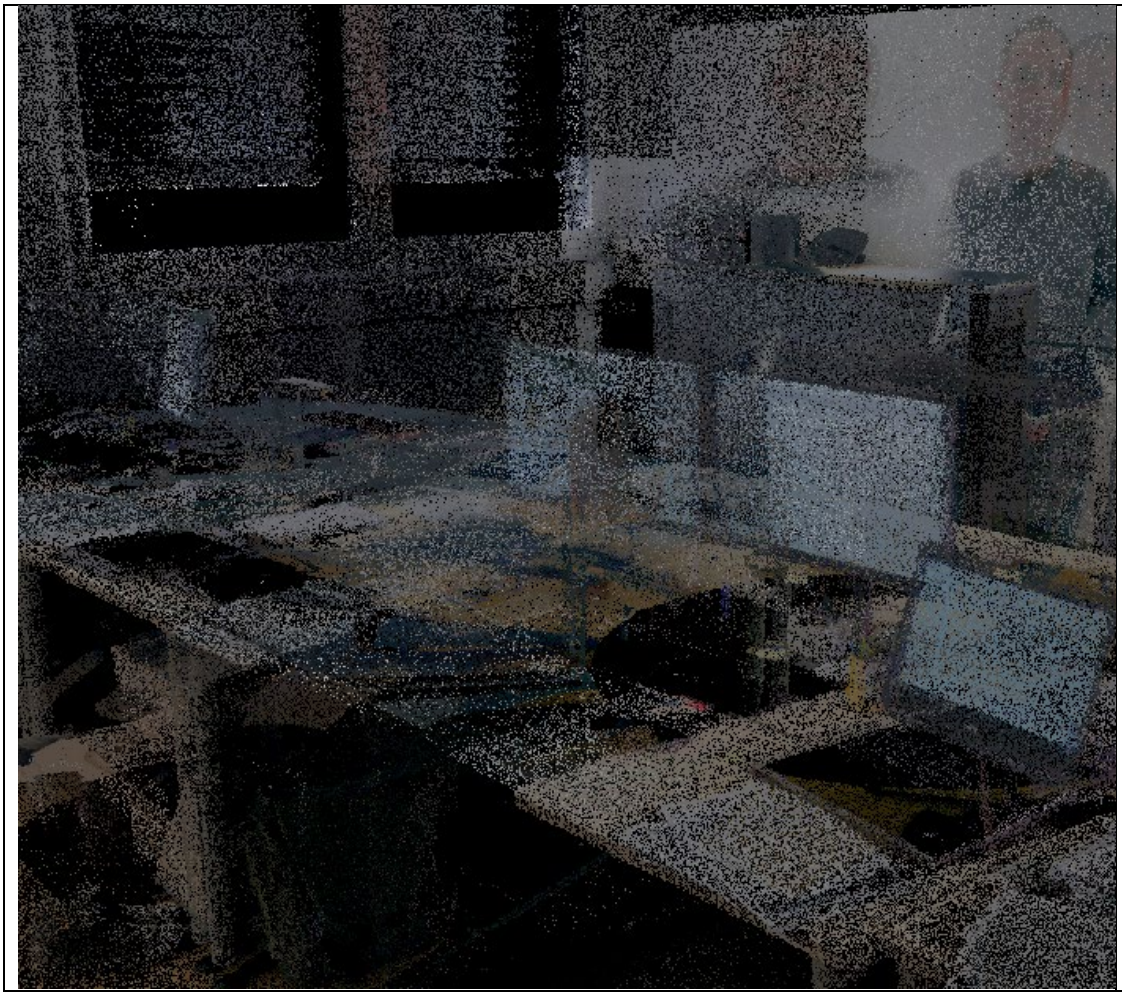
existing components for realistic re-planning. Furthermore, area-based measurements enable greater precision while reducing effort.

SpiraTec as a Technological Pioneer

With the successful introduction of surface conversion, SpiraTec once again underscores its commitment to bringing innovative technologies into industrial practice at an early stage. The combination of digital expertise, deep process understanding, and practical implementation strengthens the company's position as a reliable partner for future-oriented industrial projects.

Visuals



An example of a 3D scan and the resulting point cloud. Copyright: SpiraTec AG.

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About SpiraTec AG

SpiraTec AG is one of Europe's largest independent IT and engineering service providers specializing in digitalization and automation for the process and manufacturing industries. As a globally active partner, SpiraTec empowers its customers to undergo digital transformation. The company focuses on integrating state-of-the-art technologies into proven industrial processes along both the horizontal and vertical value chains. This enables customers to achieve clear efficiency gains and optimize resource utilization.

With over 650 employees at more than 40 locations in Europe and the U.S., the SpiraTec Group offers a comprehensive, modular range of services: These range from strategic consulting and planning to the development of digital applications and the implementation and optimization of production facilities. Its expertise covers interdisciplinary services such as digitalization, automation technology, robotics, digital twins, industrial IT, and engineering.
SpiraTec sets standards in the digital evolution of industry and drives the forward-looking transformation toward a digital industrial landscape. Through a holistic approach and interface-optimized processes, SpiraTec ensures the implementation of future-proof projects for national and international customers.

Since its founding in 2007, SpiraTec has grown profitably and increased its total revenue to approximately €80 million in the 2023/24 fiscal year.

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