

Innomatik reaches first milestones in digital twin project with the Nuremberg University of Applied Sciences Georg Simon Ohm



Bensheim, Germany, June 12, 2024 - Digitalization and automation are fundamentally changing companies. In the context of “Industry 4.0”, digital twins are crucial for accessing relevant information on a central platform. An accurate reflection of physical reality is particularly important in the construction industry and in plant operation. This enables high-quality and effective interactive applications such as construction reality checks, maintenance, as-built documentation and safety inspections.

This is why the consulting and technology company Innomatik, together with the Nuremberg University of Applied Sciences Georg Simon Ohm, has been working for over a year on the iDZ - 2025 project, which is funded by the KMU-innovativ funding initiative of the German Federal Ministry of Education and Research. The aim of the project is to develop new technologies for generating and displaying extensive and XR-compatible, photorealistic digital twins. These cannot be realized cost-effectively using current methods such as 3D laser scanning.

The first milestones of the project include the completion of the development of the basic technology processes for new, modern display methods. The university is contributing

Contact person

Alexandra Kiourtsi

Public Relations

+49 6251 / 584 – 261

a.kiourtsi@innomatik.com

Innomatik

Berliner Ring 103

D - 64625 Bensheim, Germany

+49 6251 / 584 – 0

info@innomatik.com

extensive research experience, while Innomatik, which is active in the field of disruptive technologies, is ensuring the practical relevance and applicability in industry.

“The insight into Innomatik’s innovative software solutions forms a valuable basis for new scientific impulses. We are looking forward to further cooperation and the associated potential for research and development of future-oriented technologies in the field of digital twins,” says Prof. Dr. Bartosz von Rymon Lipinski, project manager at the university, describing the progress of the project.

The next step is to develop intelligent capturing procedures in order to be able to create the new digital twins even more easily and accurately.

Another focus is on the development of applications in the field of mixed reality (MR), initially with a focus on augmented reality (AR). The aim is to seamlessly transfer information from the digital world to the real world and thus make it effectively usable on site.

“The collaboration with the university has allowed us to stay at the forefront of digital twin development. We are very proud of our team for achieving these significant milestones,” says Dr. Alexandra Merkel, CTO of Innomatik.

The KMU-innovativ project iDZ - 2025 is funded by the German Federal Ministry of Education and Research for a total duration of 36 months.



About Innomatik

Innomatik, headquartered in Bensheim, Germany, is a prominent company specializing in digital transformation. Leveraging its profound knowledge and diverse expertise in cutting-edge technologies like virtual reality (VR), augmented reality (AR), robotics, and artificial intelligence (AI), Innomatik provides precise consultancy services and customized training to assist businesses effectively throughout their digital transformation initiatives. www.innomatik.com

Contact person

Alexandra Kiourtsi

Public Relations

+49 6251 / 584 – 261

a.kiourtsi@innomatik.com

Innomatik

Berliner Ring 103

D - 64625 Bensheim, Germany

+49 6251 / 584 – 0

info@innomatik.com