

*Innovative LiDAR technology from Austria for a renowned Austrian institution:*

## **RIEGL Surveying Equipment for the Digital Twin Lab of JOANNEUM RESEARCH**

HORN, Austria  
June 2023



**2021, RIEGL was awarded the contract for the delivery of three laser scanning systems in a public tender for the procurement of surveying equipment for the Digital Twin Lab of JOANNEUM RESEARCH. Now they could finally meet in person for the completion of the successful delivery and commissioning.**

Further information:

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On the occasion of the delivery of a complete and fully integrated terrestrial, airborne, and mobile surveying system<sup>1</sup>, *RIEGL* also invited to a tour of the *RIEGL* plant in Horn.

Delivery and commissioning were successfully carried out despite the Corona pandemic, but the company visit in Horn had to be postponed indefinitely due to the Corona regulations in force at that time and internal company precautionary measures.

On May 17 of this year, the time had come: A delegation from JOANNEUM RESEARCH, led by CEO Dr Heinz Mayer, was able to see for themselves the complexity and vertical range of production at the *RIEGL* plant and production facilities in Horn during a tour. The delegation was also impressed by the innovative strength and the high-quality standard of the company in all areas.

Equipped with this innovative Austrian technology, JOANNEUM RESEARCH's Digital Twin Lab in Klagenfurt now provides Austrian companies with easy access to the latest laser scanning technology and development services. The digital twins of traffic routes, infrastructure, building complexes, agricultural areas and, for example, industrial plants, created on the basis of data from *RIEGL* LiDAR systems, are used in the implementation of digital processes, such as in planning, simulation, control and AI-supported information management.

Dr Matthias R ther, Director of DIGITAL, Institute for Digital Technologies at JOANNEUM RESEARCH, "Digitization of processes and cooperation at the location are key to a secure future: The development of digital spaces that are close to reality will be essential in order to remain fit for the future. And we will continue to establish expertise to support companies with innovations and strengthen their resilience. The Digital Twin Lab opens up completely new implementation possibilities. We are pleased that this is possible in collaboration with an established Austrian company."

Managing Director and CTO at *RIEGL*, Dr Andreas Ullrich, "We are proud that we, as an Austrian company, were able to equip the Digital Twin Lab project of JOANNEUM RESEARCH with our laser scanning systems. It is highly impressive for us to see the extent of innovative research and development in the field of digitization and the creation of 'spatial digital twins'-based on *RIEGL*'s highly accurate survey data. The presented projects from the fields of autonomous driving, precise driving simulations and traffic monitoring in combination with AI technologies, for example, ensure JOANNEUM RESEARCH with the Digital Twin Lab an important pioneering role to advance research for the development of new transportation concepts and technologies.

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<sup>1</sup> VZ-400i Terrestrial Laser Scanning System, VMX-2HA Mobile Mapping System, and RiCOPTER UAV Platform with integrated VUX-SYS Airborne Scanning System



We wish the team around DI (FH) Patrick Luley much success in realizing the goals they have set!"

**About RIEGL**

With more than 40 years of experience in the research, development and production of laser rangefinders, distance meters, and LiDAR sensors and systems RIEGL delivers proven innovations in 3D.

The combination of RIEGL's state-of-the-art hardware for terrestrial, industrial, mobile, airborne, bathymetric and UAV-based laser scanning with appropriate, equally innovative RIEGL software packages for data acquisition and processing results in powerful solutions for multiple fields of application in surveying.

RIEGL has always been committed to delivering the highest performance, quality, reliability, and longevity of all its products and services, and strict adherence to applicable international standards is a priority.

**About JOANNEUM RESEARCH Forschungsgesellschaft mbH**

JOANNEUM RESEARCH, headquartered in Graz, is an innovation and technology provider in the field of applied research. As a research society of the states and regions, we shape the development of our modern society and economy with our research competencies in a sustainable and people-centered way. As a multidisciplinary team in flexible, innovation-friendly structures, we live the highest social and scientific standards.

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