



Press release

LogiMAT

Real-time Digitization of the Logistics World

Logivations and Pixel Robotics present together at LogiMAT 2022

München, 20.05.2022 – consistently innovative and with impressive new features in "Real-time Digitization, Robotics & Process Optimization" [Logivations GmbH](#), an international consulting and technology company from Munich, is presenting its newest applications from 31.05. – 02.06.2022 at LogiMAT in Stuttgart (Hall 8, Stand F05). This year's co-exhibitor is their partner company [Pixel Robotics GmbH](#) – specializing in robotics and object recognition with artificial intelligence.

AI Technology & Robotics

Machine learning is the technology to recognize and localize objects and the environment in real time. The basis for this is "training", meaning the computer "learns" these objects. All objects - e.g. forklifts, pick trucks, or storage inventory - can be trained. Trained objects are then automatically recognized, and can also be localized or classified and much more.

Digitized image of logistics in real time

The recognized data is mirrored in real time in the digital twin. Result: there is a perfectly a perfect digital replica of reality. The positions of all objects are known, material flows, area occupancy, work of employees, forklifts, etc. - and all of it is captured in a perfect digital duplicate in the digital twin.

Now that driverless transport systems and forklift control systems are merging, autonomous transport systems have completely new possibilities for navigation and obstacle avoidance, as well as collaboration with people.

A variety of applications can now be created on the basis of the digital twin; for example:

Real time location & recognition system

Track all material flows and forklift movements, book them automatically, automate scanning and identification processes.

Autonomous transport robots

An autonomous robot, navigated solely by artificial intelligence, can avoid obstacles and navigate completely dynamically. For example, it can operate pallet transports in long, narrow lanes, and find and pick up pallets on surfaces. The robot also intelligently aligns the pallet with the environment when it is set down.

[Scanner-free logistics](#)

If all material movements are known, scanning is unnecessary.

At booth F05 in hall 8, logistics experts can take the opportunity to learn more about our unique solutions for a broad range of applications. The combination of W2MO software with object recognition, AI, and robotics from Pixel Robotics provides fully integrated, fully transparent supply chain solutions. Everything from seeing your supply chain on an interactive Google Map, logistics planning and optimization, innovative algorithms, 3D container optimization, autonomous transport robots, to deep machine learning – all integrated in one cloud based package.

(Please request a file copy or link when publishing)

Image material:

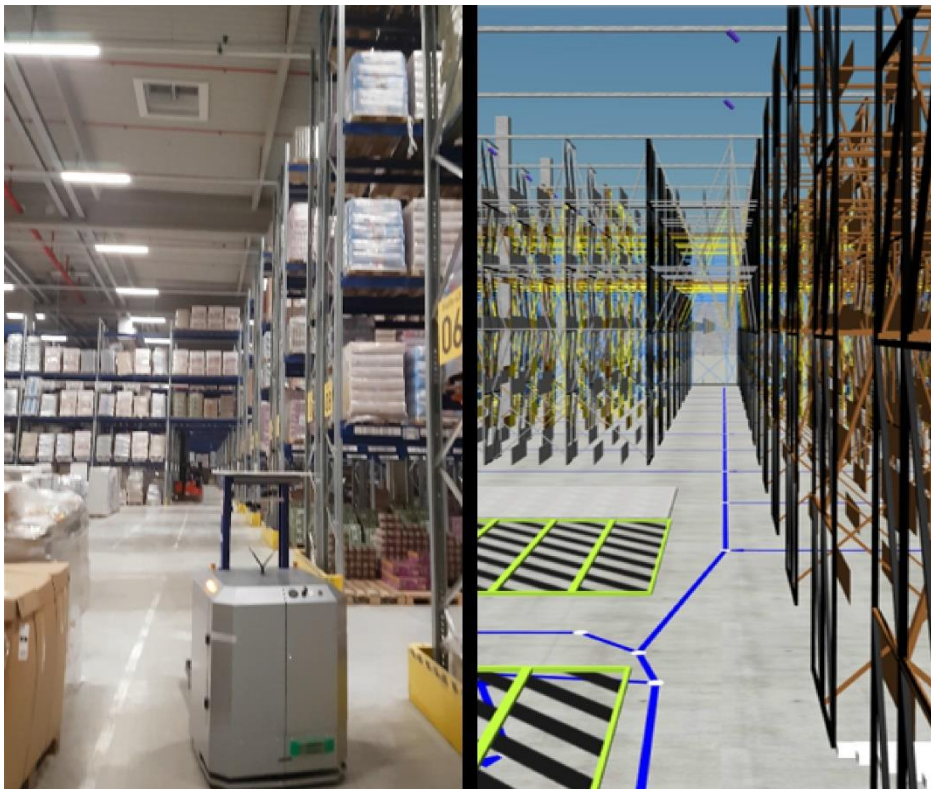


Image 1: W2MO – Realtime Digitization of the Logistics World (source: Logivations)



About Logivations:

Logivations is an international consulting and technology provider with headquarters in Munich. We develop innovative solutions based on advanced AI, optimization and robotics technologies, as well as “Deep Vision and Robotics”. With these powerful tools, companies can plan holistically and optimize all aspects of their logistics under the motto “Design by efficiency”. Our software solution W2MO is globally leading in design, 3D- and VR simulation, optimization, evaluation of supply chain processes, and warehouse and production logistics. Already more than 30.000 professional users worldwide use W2MO directly from the cloud or locally installed. W2MO has been nominated several times by committees of experts, such as: the “Best Product” at LogiMAT 2011, named in 2013 by Gartner Inc., the US analyst, as “Cool Vendors in Supply Chain Management Applications”. In 2016 W2MO was chosen by Volkswagen as “Top Innovator of Volkswagen Scouting Logistics Innovations” and in 2019 among the 20 “Nominated Top Innovators”. www.logivations.com

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