



SMART DEPOT



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Smart Depot is a family of products that includes automation and digitization of depot operations using automated vehicles and AI-based control technologies.

The aim is to increase the productivity and efficiency of key tasks performed in depots. The project introduces a group of products that together form an automated depot ecosystem. The products can be deployed individually or used together according to customer specifications and requirements.

All product functionalities are designed to automate processes in the tram depot. The Smart Depot Ecosystem is designed to increase

productivity, reduce operating costs while providing a safe and efficient working environment.

Features like Automatic Shunting and Remote Control can ensure vehicle driverless operation which, together with automatic visual inspection, can further be used for complex automation tasks within the depot. Other automation use-case enables automatic tram operation on turning loops, automated tram wash passage, fleet management and more.

KEY FEATURES

- | **Safe Depot Operations** – Minimizes accidents and operational risks by reducing human error through autonomous depot functions and defined safety zones.
- | **Cost Efficiency** – Delivers ROI within 3–5 years through optimized staffing, lower repair costs, and improved operational performance.
- | **Operational Efficiency** – Accelerates depot workflows with intelligent routing, automation, and advanced IT tools.
- | **Optimized Resource Utilization** – Maximizes depot capacity, vehicle availability, and workforce efficiency through smart planning and resource readiness.
- | **Improved Working Conditions** – Eliminates repetitive and inconvenient tasks such as manual shunting and night-shift operations, enabling employees to focus on higher-value activities.
- | **KPI-Driven Performance** – Supports data-based decision-making with insights into fleet availability, maintenance efficiency, operational reliability, and workforce utilization.
- | **Foundation for Autonomous Operations** – Builds experience, confidence, and infrastructure readiness for future autonomous tram and depot operations.

PRODUCTS OF SMART DEPOT

- | Automatic Washing – Driverless operation in tram wash
- | Automatic Shunting in Depot – Driverless operation in Depot
- | Automatic Turning Loop (GoA2+) – assisted driving at turning loops
- | Automatic Turning Loop (GoA4) – automatic driving at turning loops
- | Vehicle Self – Surveillance
- | Safe Departure Assistant
- | Remote control
- | Fleet Management
- | Vehicle Visual Inspection