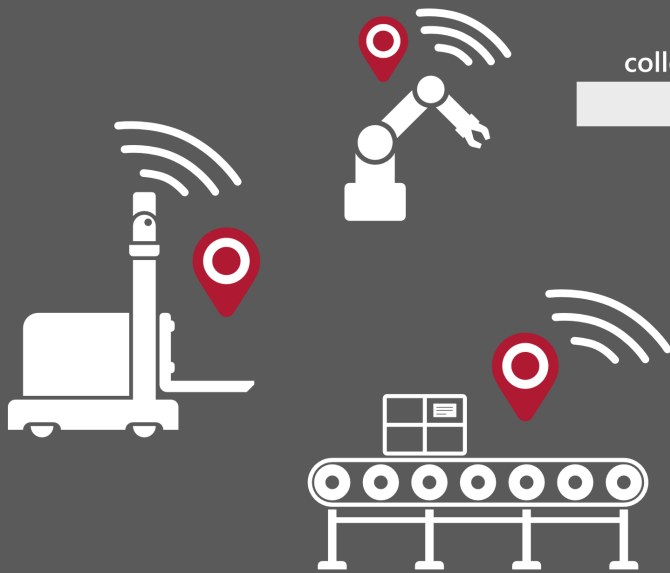


IoT Devices
INDUTRAX



collect

act

Analytics & KI
Deep Qualicision



Deep Location Awareness – Qualifying Location Data

Increasing transparency and process quality in production and logistics by AI-supported optimization

- + Analysis of operational relations using AI methods
- + Identification of weaknesses in business processes
- + Visualization of improvement potentials in a comprehensible manner
- + Sustainability thanks to careful use of resources
- + Efficient growth while increasing process quality
- + Continuous optimization based on self-learning data processing



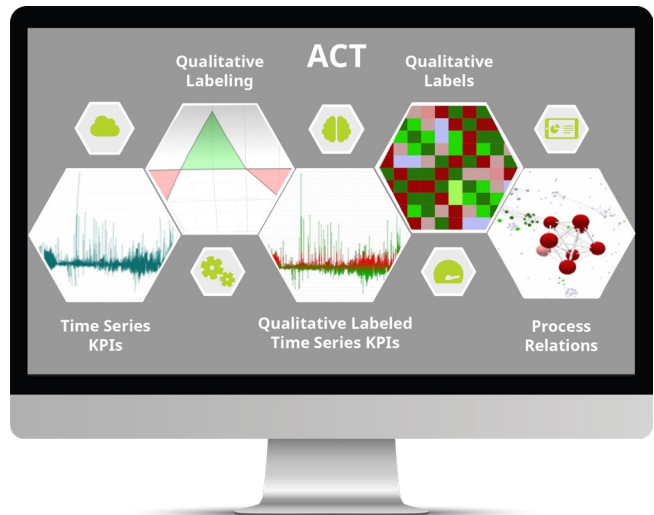
Deep Location Awareness by Qualifying Location Data

The PSI FLS software products **QUALICISION** and **DEEP QUALICISION AI** extend the INDUTRAX applications **PRODUCTTRACKER** and **ASSETTRACKER** with AI and decision support technologies. From raw location data, Deep Location Awareness is created.

At its core, the joint solution allows visualizing manufacturing processes in real-time and furthermore prepares AI-supported optimization proposals. The location data makes it possible to create a digital twin and perform a target/actual comparison of the production data.

COLLECT – Capture Location Data

Location, identification and sensor data can be transformed into relevant events for logistics and production control systems. The Location Aware Software is technology independent and seamlessly integrates various source systems to cover a wide range of indoor and outdoor use cases. For example, the processes on the shopfloor, such as the entry of an AGV into defined areas, can be displayed in real time on the digital factory map. The management of stationary machines and devices is extended to tracking of movements. The data collected provides the basis for the Industrial Internet of Things (IIoT).



ACT – Qualitative Labeling and Process Data Analysis

Qualitative Labeling using the AI-based optimization and decision support software classifies the collected location data and transfers it into value-added information. This information is used to analyze operational interdependencies, identify weaknesses and visualize potential for improvement in a comprehensible manner by means of intelligent, learning business process data analysis based on key performance indicators (KPIs). This processed operational information can be used to derive possible measures in order to increase process quality in a holistic manner and to enable real added value for production and logistics management.

KPI-oriented Optimization in Production and Logistics

At its core, the joint solution allows visualizing manufacturing processes in real-time and furthermore prepares AI-supported optimization proposals. The implementation of the software enables new growth for customers while making optimal use of existing resources and increasing efficiency. The careful use of resources also increases sustainability in production and logistics. AI-based self-learning data processing and analysis ensures continuous optimization of process quality and enables Deep Location Awareness by qualifying location data.