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Analytics and Artificial  
Intelligence Services

## Optimization of production and logistics workflows based on real-time analytics

### Location Intelligence

In competitive markets, companies are forced to maximize the outcome of their available resources (e.g. workforces, tools). In this context, any deviation from the planned scenario, like searching for material which is associated with an order, causes high costs and jeopardizes this goal. To overcome such challenges, companies often rely on locating systems. However, the provided position data is only one part of the solution. Location Intelligence complements this information with the business context of the company. Through this combination, an added value can be created. Using real-time analytics, Location Intelligence detects anomalies, such as bottlenecks. Based on the gained transparency, optimization potential for production and logistics processes can be identified.

#### Convincing value-adds



##### Enable full transparency throughout the production

Reduce time spent on searching materials of an order to a minimum and increase quality by adding transparency to the production and save up to 150,000 € per year.



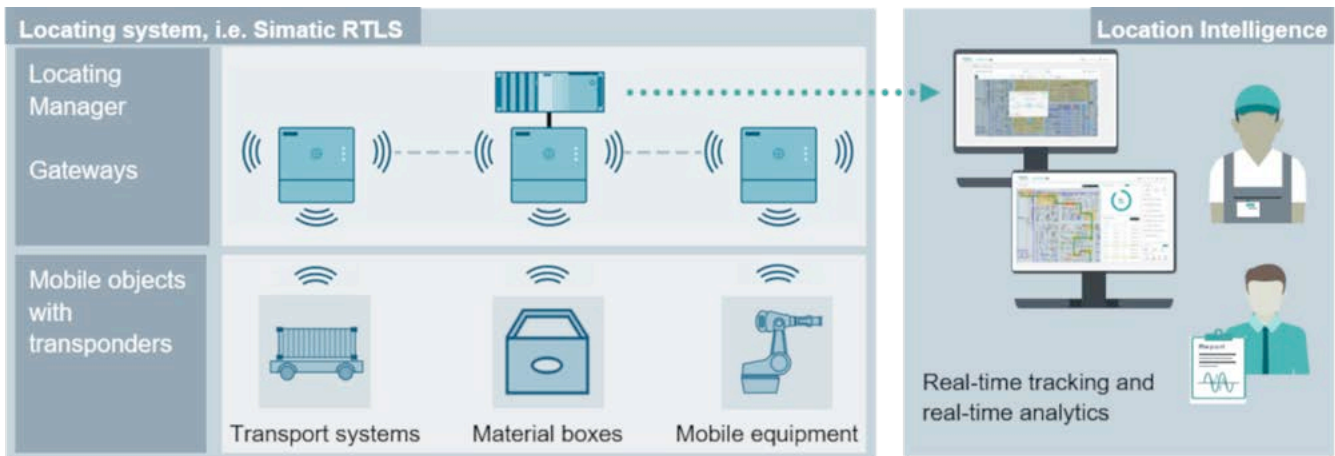
##### Detect anomalies and decrease time to react

Prevent bottlenecks and other unplanned scenarios as anomalies are made visible by real-time analytics.



##### Optimize production and logistics processes

Optimize the production and logistics workflows by process automation based on position-based events.



## Real-time analytics of location information to optimize production and logistics workflows

### Service bundles to meet production and logistics challenges:

Location Intelligence is a software application for locating systems. With Location Intelligence, order information of the customer is combined with positioning information. Using real-time analytics, Location Intelligence detects anomalies in the production and logistics processes (e.g. bottlenecks), and identifies optimization potential to avoid future anomalies.

Different service bundles are offered:

- **Location Intelligence Small**  
Up to 100 Simatic RTLS transponders can be used.
- **Location Intelligence Medium**  
Up to 1,000 Simatic RTLS transponders can be used.

- **Location Intelligence Large**  
Up to 10,000 Simatic RTLS transponders can be used.

### Reference: Eletronics Works Fuerth, Germany – Reduced searching times during production

At the Electronics Works Fuerth, the nature of business is low volume, high mix. Many of the tasks are not effective, since there is no repeat aspect, but transparency is key for production and logistic processes.



- The solution is based on Location Intelligence and SIMATIC RTLS.
- Transponders of the locating system (SIMATIC RTLS) are attached to the objects of interest (e.g. material boxes) and within Location Intelligence the transponders are associated with an order.
- Time to search for material was reduced to a minimum and the amount of paper used inside the production facility was reduced as well incorporating the Simatic RTLS ePapers.

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