

Hub Booster

Advanced analytics for effective performance improvement



The challenge

A growing number of parcels in all shapes and sizes, as well as varying volumes on a daily basis, are adding more and more complexity to sorting processes. Even small deviations within interconnected processes and a lack of transparency can lower a hub's throughput. Challenges include making docks available for scheduled loading and unloading, feeding sorters with a balanced load, and emptying chutes in time to use the overall sorting system to capacity.

Our solution

With Hub Booster, parcel sorting centers can be operated as efficiently as possible – thereby minimizing operational costs, optimizing resource allocation, reducing the recirculation rate and maximizing asset utilization. The software acquires operational data in real time. It provides analytical processing functions to improve the visibility of the sorting process chain and supports analysis processes and decision making during operations.

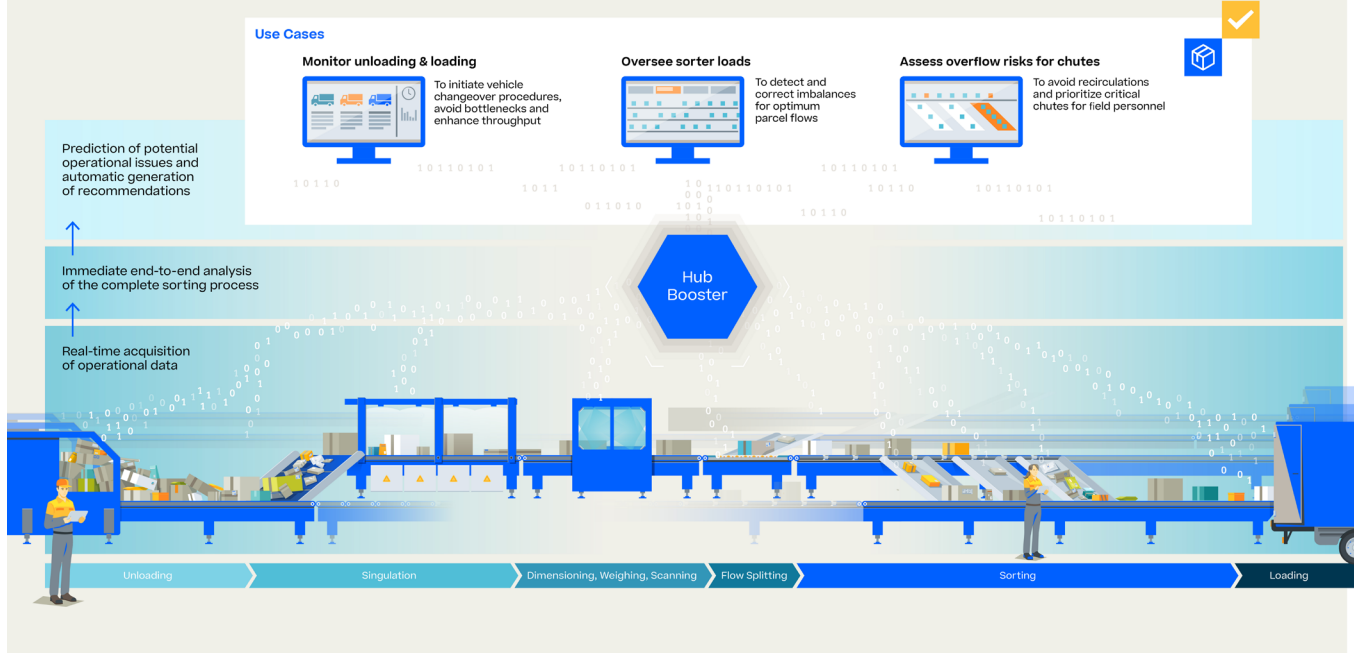
Customer benefits

- Gain transparency in end-to-end parcel processes
- Operate a hub at optimal performance thanks to real-time visibility of processes within a parcel sorting center
- Automatically generated recommendations ensure the timeliest intervention possible
- Modular architecture allows for demand-driven functional deployment along a hub process chain
- Easy to use: Information retrieval at any point of interest and via various smart devices

Functional features

- Utilization of data from different process devices in various processing steps
- Fast processing of big data to enable soft real-time monitoring
- Presentation of real-time and historical analytics results on dashboards
- Decision-making support through previously collected data

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Use cases

- Observation of unloading trucks and swap bodies to provide the earliest recommendations possible on when to change them
- Information on sorter occupancy to detect and remedy unbalanced situations
- Provision of chute information to unloading teams, including recommendations on which chutes need to be unloaded at the highest priority to avoid chute overruns
- Information to vehicle loading teams, including recommendations at which docks trucks ought to be changed to avoid loading capacity bottlenecks

Prerequisites for installation

- Hub Booster can be installed on decentralized as well as centralized server structures
- The system requires access to PLC or higherlevel control layers for data acquisition

Data security

The analytics technology platform based on modern, cloud-native software architecture consisting of off-the-shelf software components. Therefore, the system is highly scalable and reliable.

Security is ensured by applying

- secured data exchange based on standard security protocols
- "Security by Design" development processes

