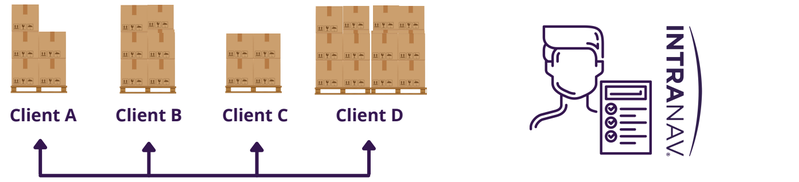
eCommerce Outbound Logistics

Scan-free bin checkout posting with the digitized forklift fleet

During the outbound storage process, the logistics employee picks various packages and pallets from the warehouse with the forklift truck, which is equipped with the **INTRA**NAV.**RTLS** VehicleTAG+ (RFID and UWB sensors). With the removal from the RFID rack by the picking forklift, the packages and pallets are automatically booked out in the ERP. In the process, the NVE is separated from the master NVE, the so-called "virtual pallet", because this is now no longer sorted by type due to the picking of the various goods. When passing through the RFID gate, the pallets and packages are "counted up" by INTRANAV. The retrieval order is thus automatically checked for completeness and the bin retrieval order is completed in the ERP system.

1



INTRANAV outbound workflows optimize shipment preparation

In the "clearing distribution zone", the goods are prepared for the next shipping steps.
The picked goods are consolidated and distributed by employees for the respective shipping order.
Via the **INTRA**NAV.**APP "Virtual Pallets"**, the staff is indicated via monitor the respective number of packages to be loaded on the pallets for each shipping order. When loading the pallets, the packages are "counted up" by the system and booked in the ERP as soon as the full status of the pallets for the respective order is reached.
At the same time, event triggers trigger, for example, the creation of the delivery bill and the pickup order for the goods from the shipping company. In addition, the shipping label is automatically printed out to match the order.

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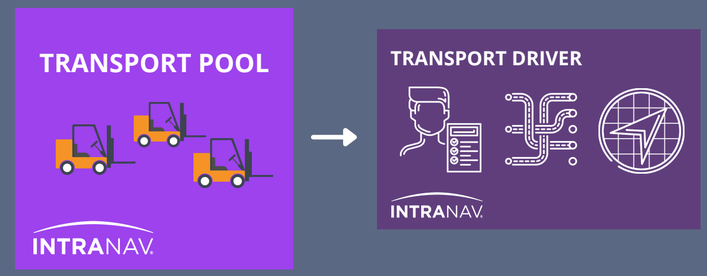

Automatic transport job generation and forklift fleet orchestration

The **INTRA**NAV.**APP "Transport Pool"** assigns the transport order to an available forklift for storage in the dispatch warehouse.

Through the **INTRA**NAV.**APP "Transport Driver"**, the forklift driver personnel is informed that a new order has been placed. After picking up the goods, the driver is advised of the shortest route to the next destination, the dispatch warehouse.
After picking up the goods with the fork, the app displays which goods have been picked up for control purposes. This eliminates the risk of mistakes when picking up the goods.

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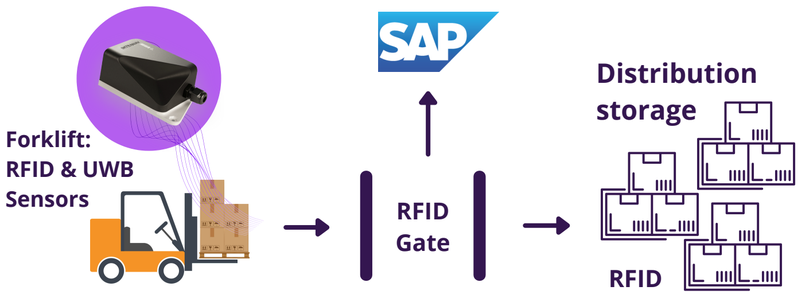

Scan-free outbound booking of mixed pallets through the RFID gate and scan-free booking in the shipping warehouse

The ready-packed pallets (mix of types) are automatically recorded as "ready for dispatch" in the ERP system when the digitized forklift truck passes through the RFID gate.

The storage booking is done scanner-less by RFID sensors by the fork of the forklift **(INTRA**NAV.**RTLS** VehicleTAG+).

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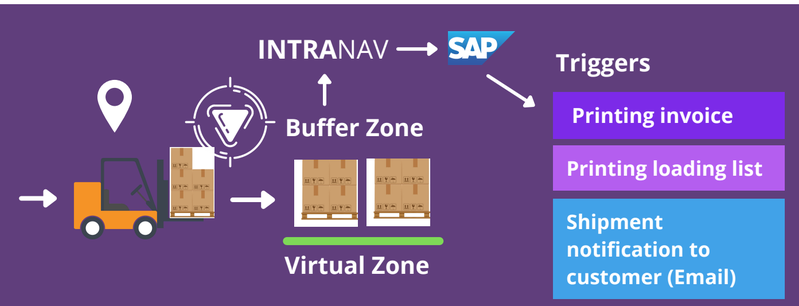

Scan-free outbound from shipping warehouse; Event triggers initiate invoice printing, loading list, and shipping notification

The Pallet Runner or the digitized forklift removes the goods from the shipping warehouse scanner-free via a Mobile Reader or via the RFID sensor on the forklift.
Virtual zones (geofences) are located at the buffer zone in front of the ramp. As soon as the goods are unloaded in this zone, various events are triggered in the ERP: generation and printing of the invoice and the loading list. In addition, the customer is notified by email that his order is leaving the warehouse and will be handed over to the shipping company.

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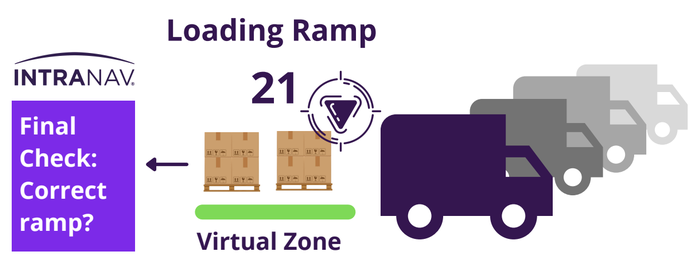

Final outbound check: Transport of goods to the correct loading ramp and gate

Virtual zones at the ramp are used in the final step to check whether the goods have been transported to the correct gate. If this is not the case, alerts trigger a warning message via the **INTRA**NAV.**IO** platform so that the incorrect delivery of goods can be corrected before the goods leave the warehouse.

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