

# RTLS AND FORKLIFT LOGISTICS



7iD



## SITUATION

HOBAS Pipe is a producer and supplier of corrosion resistant HOBAS centrifugally cast fiberglass reinforced polymer mortar pipe systems. They have established a storage concept where pipes are produced in advance without any specific customer order. These goods are put on stock in large outdoor areas where they are commissioned for customers later on. All movements of goods are carried out with forklifts. In the course of the real time localization system (*RTLS*) the management and localization of stored pipes in the different process steps should be optimized. The forklift drivers should get all process relevant information displayed on a vehicle mounted terminal PC in order to be able to handle all process steps more efficiently. To guarantee best read performance especially in withstand environmental conditions like rain and fog together with metal surfaces, the RFID transponder as well as RFID reader and antenna must be selected wisely.

## SOLUTION

To increase the logistic transparency within the storage and commissioning process, 7iD Technologies installed an innovative real time tracking solution consisting of RFID and GPS equipped forklifts and RFID tagged pipes. To guarantee intermediate information, all goods (pipes and goods stacked on pallets)



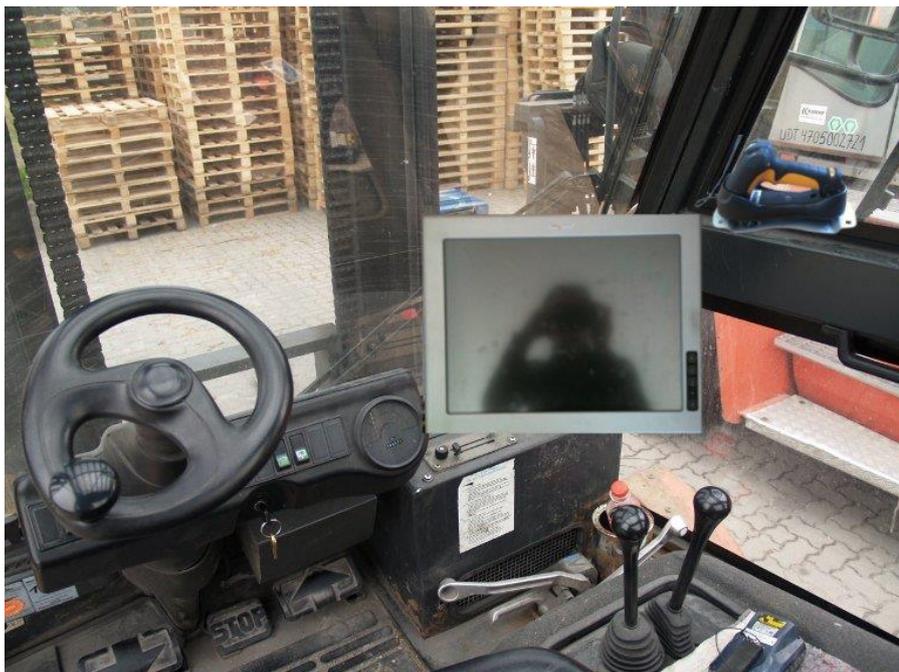
## KEY BENEFITS

- Logistic transparency
- Fast commissioning
- Immediate information at which position the pipes are dropped

are equipped with UHF RFID transponders directly after the production. These transponders are printed and programmed with an RFID label printer containing the unique product ID.



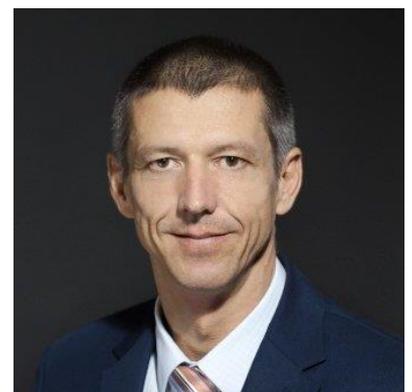
6 forklifts with an UHF RFID reader/antenna automatically detect if an item is picked or dropped. The item ID from the RFID system together with the current GPS position is forwarded to the SAP backend system whenever the forklift driver performs a certain process step. All process relevant information is displayed on a terminal PC so the driver has no need to leave the forklift to identify the picked up items anymore. Further, the driver can query for certain product IDs in order to get their location displayed on an area map.



## COMPONENTS

- RFID tags on every pipe and stacked pallet
- 6 RFID enabled forklifts
- GPS modules and PC terminals on each forklift
- 7iD's RFID middleware DIP Platform™
- Tailor-made business processes to alert and inform maintenance staff

## CONTACT INFORMATION



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