

Imagine the impact of real-time intelligence to your business.

IDENTEC SOLUTIONS

I-CHEM Active-RFID Solution Saves Time and Money for Chemical Logistics Facilities by Managing Truck Traffic

IDENTEC SOLUTIONS Deutschland GmbH

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Herbert Hohmann VP Sales Europe

IDENTEC SOLUTIONS WHO WE ARE

Leading Provider of Wireless Technology Platform (active RFID)

- Award-winning, patented SensorSmart[®] Technology Platform
- Identifies, locates, tracks and communicates with assets at a distance of up to 500 meters
- Award winning deployments in Logistics Applications in Marine & Intermodal;
 Oil and Gas and Chemical Industry
- World class customers: BASF, Bayer, DP World, ConocoPhillips,

Key Facts

- Established 1999 in Austria
- 102 employees (75 EMEA, 14 North America, 13 Australia)
- 1 million "smart assets", 30.000 readers in use

Business Locations

Centers of Excellence

- Lustenau, Austria (Product Center) HQ
- Kristiansand, Norway (Solution Oil, Gas & Mining)
- Melbourne, Australia (Solution PORTS)

Sales and Service Centers

- Dallas, USA
- Hirschberg, Germany (Solution Chemical Logistics)

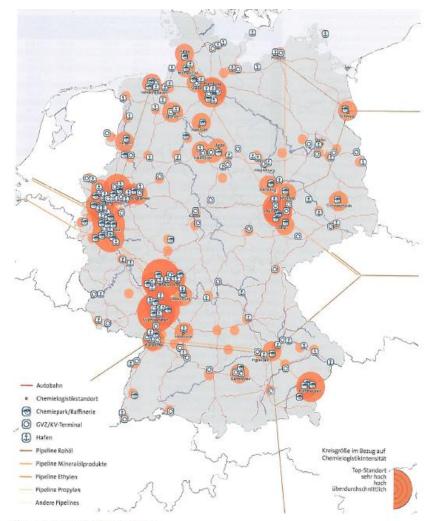






LOGISTICS IN CHEMICAL INDUSTRY GERMANY INTENSITY





7 | Intensität der Chemielogistik in Deutschland

VISIBILITY DELIVERED.

Source: BVL 2013 "Chemielogistik Bedeutung; Strukturen, Dynamik 37 Sites (Chemparks and Chemical plants)

158 Mio t chemical products transported in Germany

Modal mix Rail 15%, Ship 3% Truck 82%

40% are hazardous materials

BASF approx. +2.000 truck movements / day

Chempark (Bayer / Lanxess) approx. 500 to 700 truck movements/site/day

- Increased volume of transports VCI / BVL: increase of 30%-50% until 2020
- Increased traffic at gates and within plants
- Lack of educated drivers
- Limited capacity /space at the gate areas / plant sites
- Increased requirements for safety and security
- Reduction of CO2
- Supply Chain complexity

LOGISTICS IN CHEMICAL INDUSTRY GERMANY HOW THE INDUSTRY REACTED

BASF started the pilot Project DRIVE in 2008 RFID Identification of Trucks at the Truck Gate and Loading Stations

Positive decision and start rollout in 2012 at the plant in Ludwigshafen - Gates and Loading Stations

Chemion decided in 2013 to use the same system for GATE processes of the Chempark plants Uerdingen, Krefeld and Leverkusen (Lanxess, Bayer)

Forwarders can use the same equipment for the automated entry at all sites







LOGISTICS IN CHEMICAL INDUSTRY GERMANY PROCESS AUTOMATION WITH I-CHEM AND FLOW SOLUTION

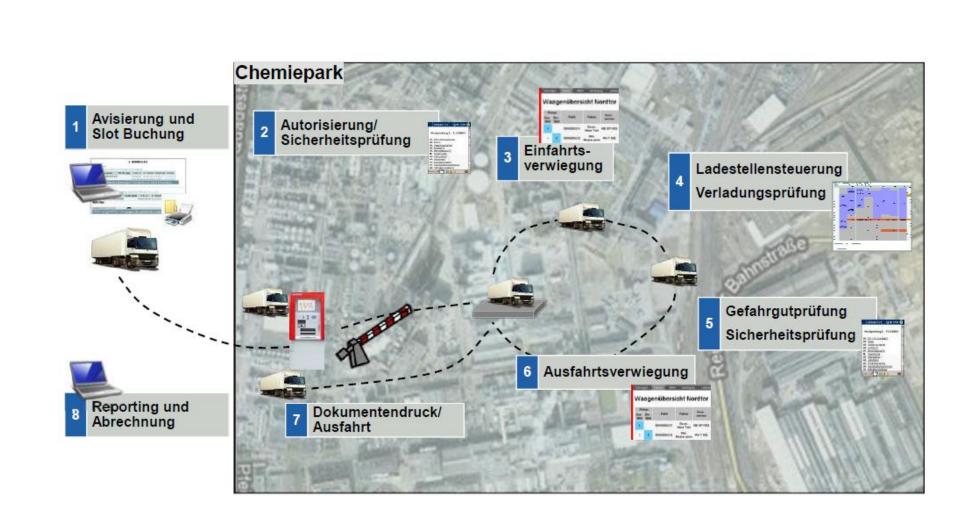
ATEX certified active RFID transponder Ruggedized for truck mounting

RFID reader and antenna Infrastructure at the Gates and Loading Stations

i-SHARE Edgeware for data collection and pre processing

"Flow" MES software Functions: Check In, Slot Booking, Weight Stations Kiosk, ADR Documentation etc.

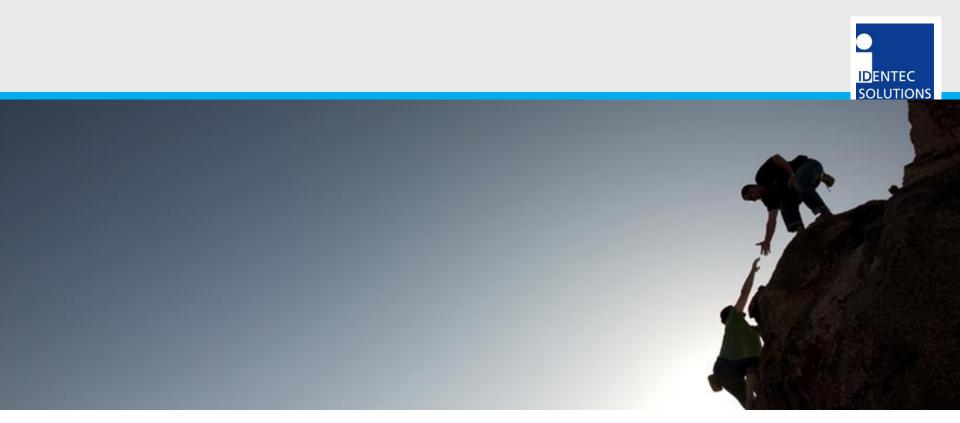








- > Driver stays in the truck, no line up at check in counter
- > Time reduction of approx. 1 hr per turn around
- Reduce bottlenecks at the gates
- > Automatic process documentation of throughout the process
- Single RFID Transponder at the trucks for multiple business relations
- Real time visibility of the process allows for optimization and control



THANK YOU

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