

RFID REVOLUTION IN LOGISTICS

JOURNEY TO LOCATION BASED SERVICES



sewio
locate and track indoor

MILAN SIMEK / CEO

PRODUCT SUPPLY CHAIN



WAREHOUSE

Receiving



Storing



Shipping



IDENTIFICATION

Product, Package, Place, Forklift, Driver, Tool



To shorten lead times

IDENTIFICATION TECHNOLOGY



RFID



Real time visibility of product info and place



Automated identification and faster inventory



Helps to find an item



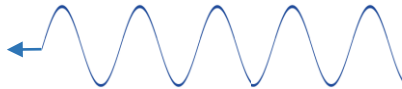
Navigation of forklifts in aisles

RFID

Passive, Active
HF 13.56 MHz, UHF 860-960 MHz



IDENTIFY

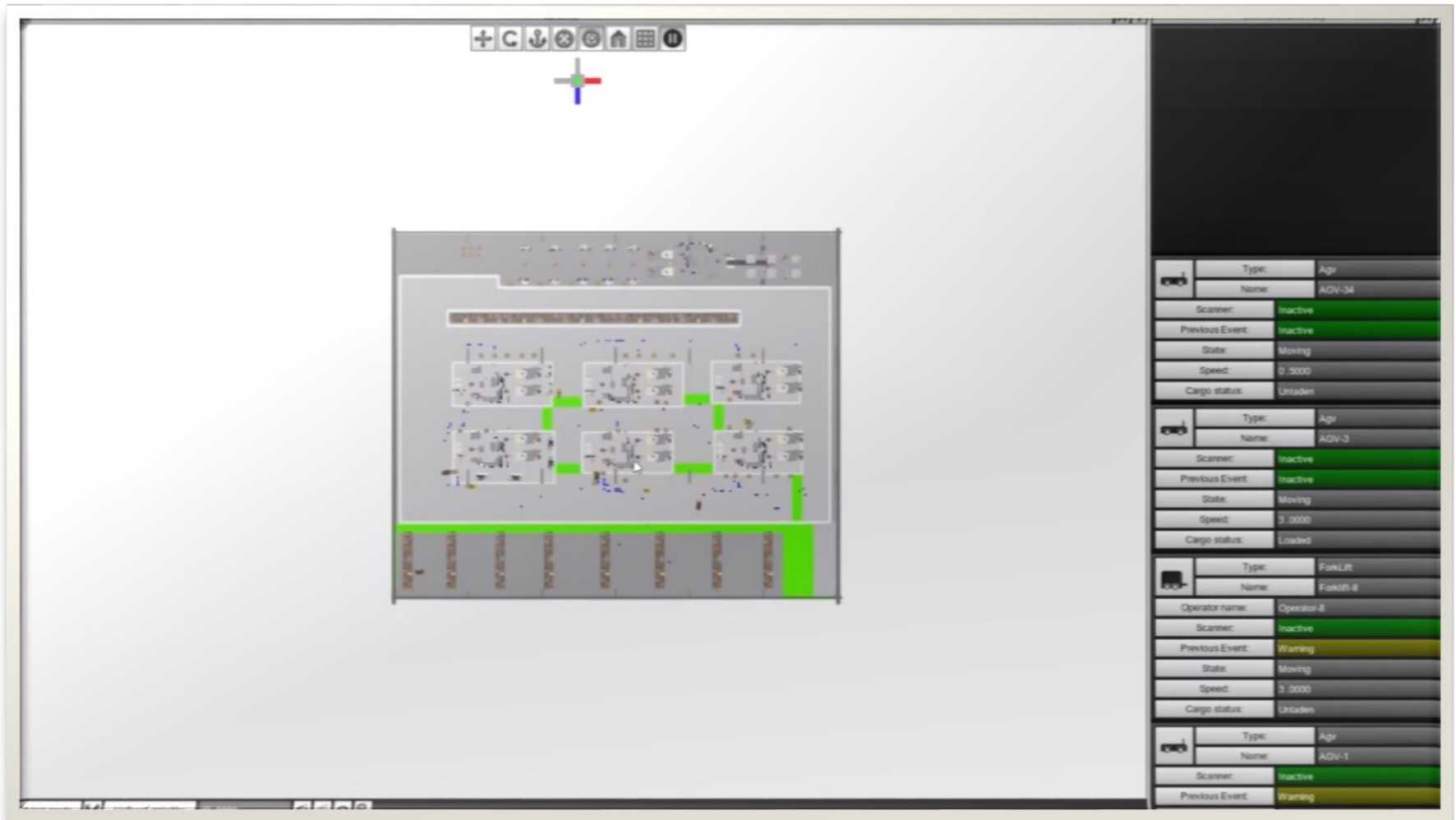


INDUSTRY 4.0 IN LOGISTICS

sewio
locate and track indoor

TechSoft
System Solutions

EDGEcom

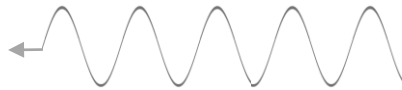


ULTRA WIDE BAND RFID

IEEE 802.15.4a - 2011
3 - 7 GHz, 500 MHz channels,
precise ranging



IDENTIFY



MEASURE

distance



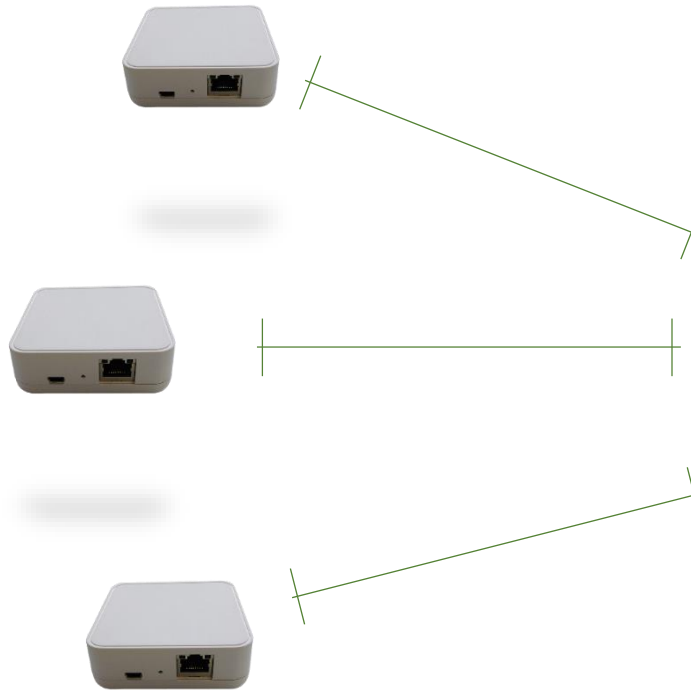


REAL TIME LOCATION SYSTEM

Location Engine
[x,y,z]



Readers on
fixed positions



Located Tag



Readers

LOCATION SYSTEM

Location
Engine

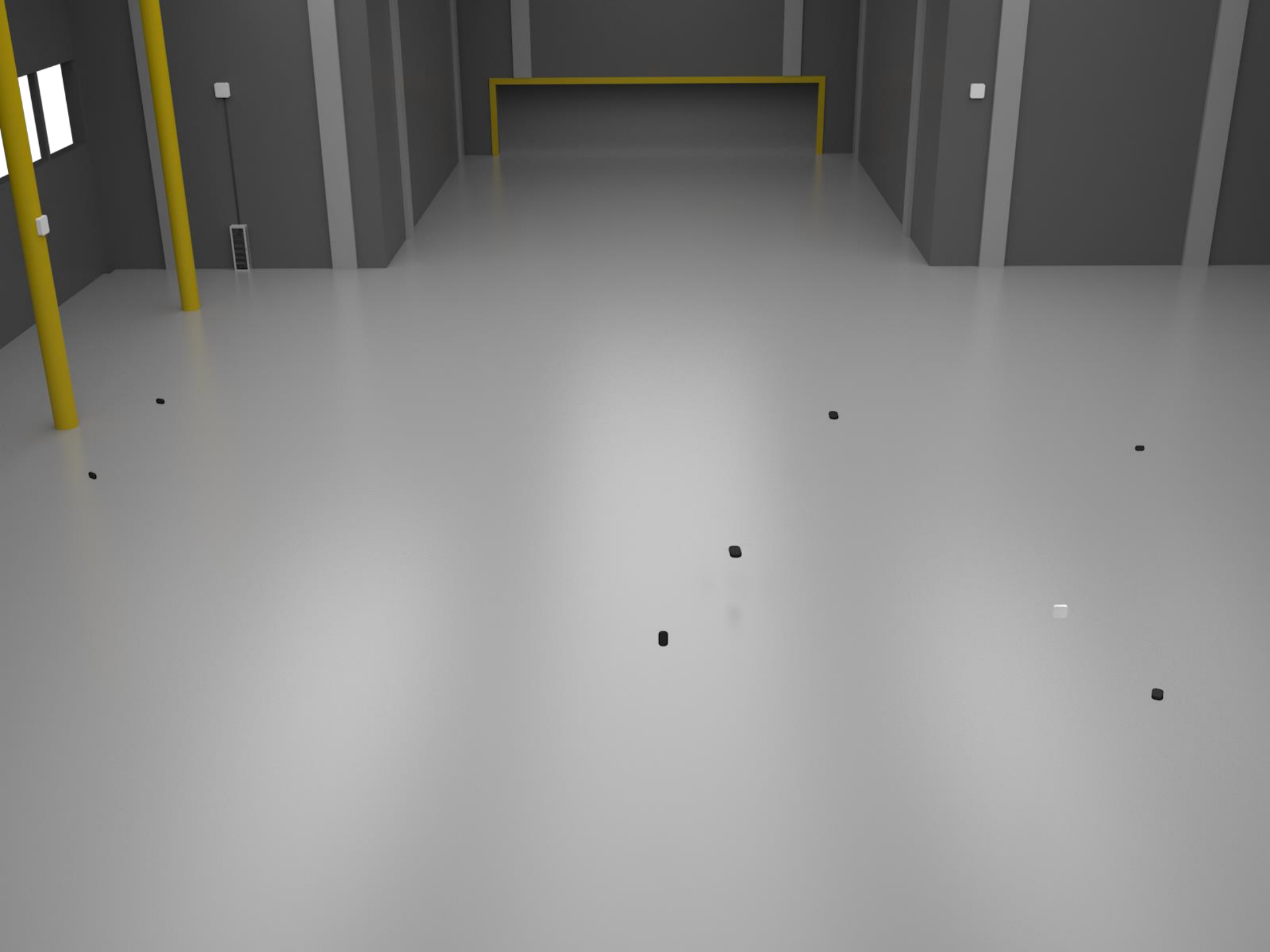
Tag

Supervision

LAN

Visualization





FACTORY 4.0



Linde

CEIT

TechSoft
System Solutions

EDGECON

Robodrone

FORKLIFT ACCIDENTS USA/1 YEAR



16,7 % of all work-related accidents
95k operators injured during manipulation
\$135 mil incurred immediate cost
19k accidents forklift/pedestrian
100 employees killed by forklift

PROXIMITY DETECTION IN MINING



Web configurable zones, Machine Control, Logs

CUSTOMER DEMANDS ON INDOOR TRACKING SYSTEMS

EASY COMMISSIONING



REMOTE CONTROL



PRECISION



ALL-IN-ONE SOFTWARE



BENEFITS OF LOCATION BASED SERVICES

LBS ENABLE NEW VISION OF
LOGISTICS AND PRODUCTION PROCESS



Reduces injuries

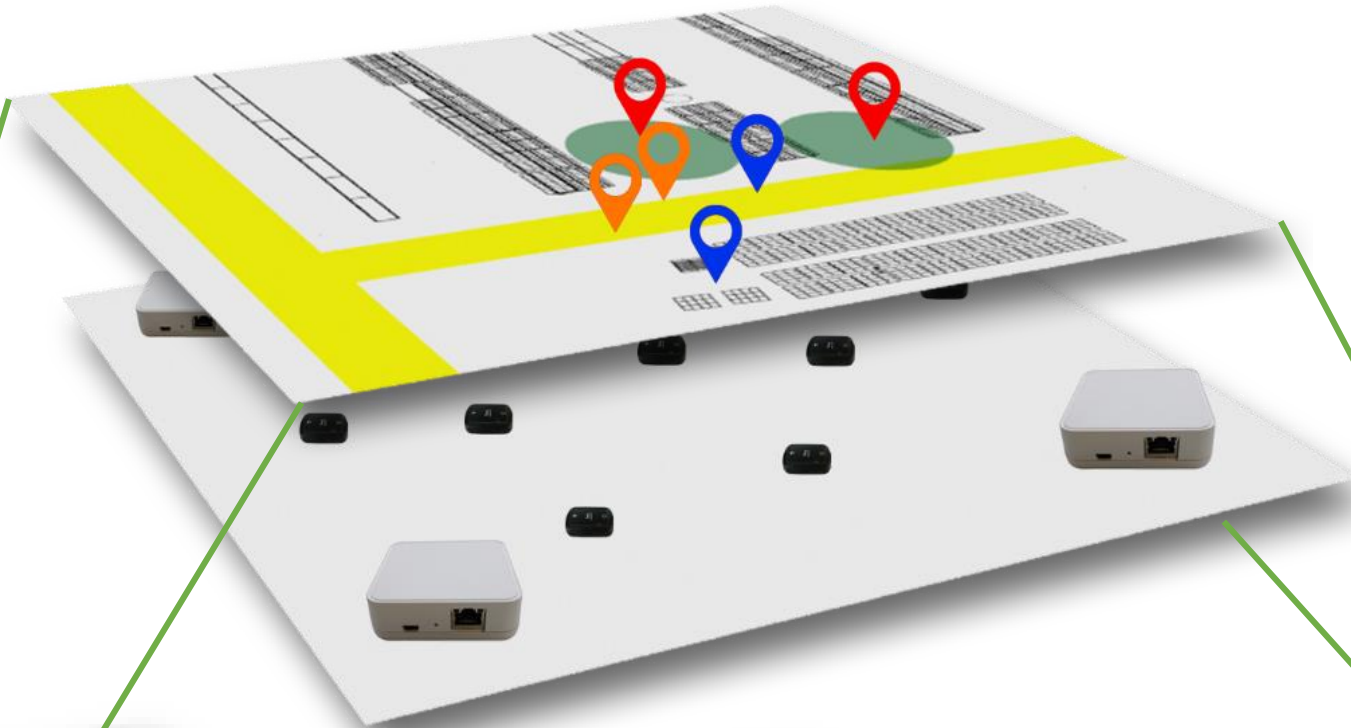


Optimizes process time

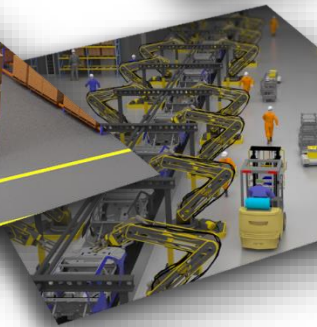


Save money

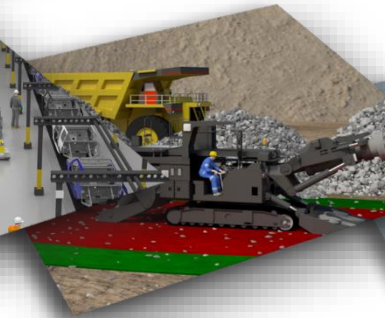
MARKET POTENTIAL



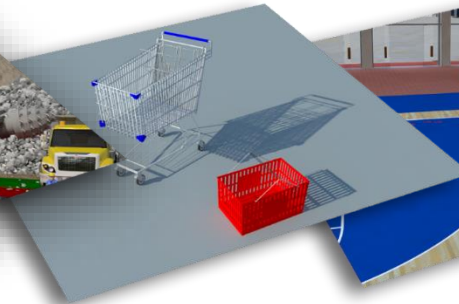
LOGISTICS



MANUFACTURING



MINING



RETAIL



SPORT

INDUSTRY 4.0 PILOTS OVER WORLD

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