

Com millorar processos productius i logístics amb traçabilitat avançada.

ACCIÓ



Generalitat
de Catalunya



Secartys



Comissió Indústria 4.0
Enginyers de Catalunya



Camins.cat
Servei d'Infraestructura de Camins,
Carreter i Ports de Catalunya



Specialized in Industry 4.0 and traceability.

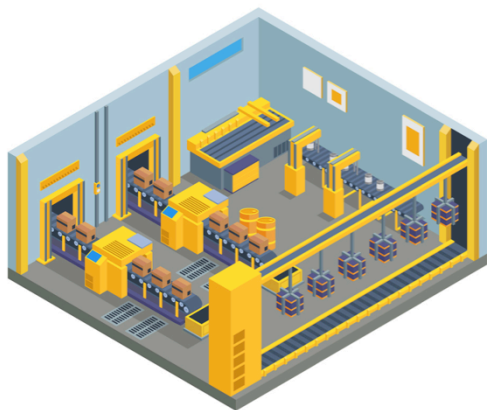
We provide a **tracking & analytics** solution that helps industrial companies be more agile and competitive.



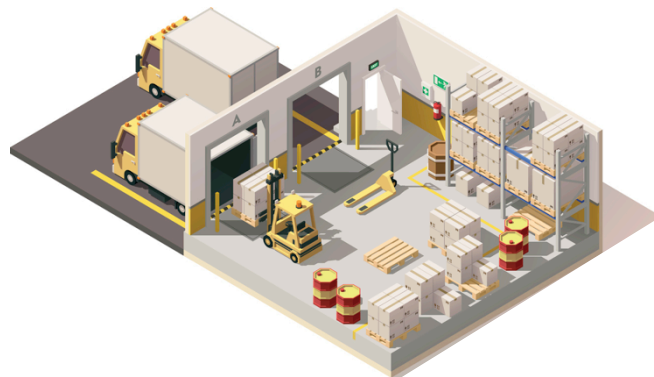
Our customers



Our focus is Industry 4.0 in three contexts



Manufacturing



Warehouses



Large sites

How do we solve industry problems

COMPLEX PROCESSES



Lots of disperse “things” across factory and warehouses.

Manual intervention. Errors

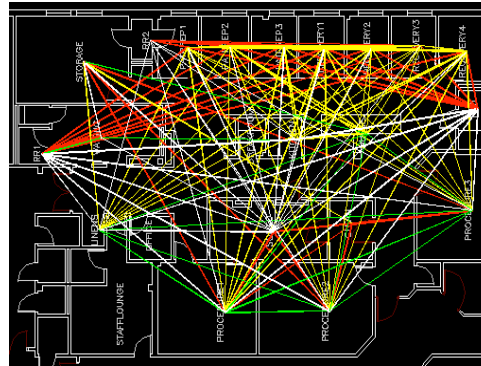
Workers, Vehicles, assets

Too busy to know what is happening.

Costly operations.



PRECISE TRACKING



Tags attached to assets and people.

Precise indoor tracking (30 cm precision)

Outdoor tracking across several Km

Sensors embedded within tags.

ATEX optional



OPERATIONAL INTELLIGENCE



Event management.

Precise process monitoring in real time

Dashboards and custom KPIs

Integration with ERP, MES, WMS and business apps.

ASSETS



- Containers, pallets, RTI
- Relevant assets
- Forklifts
- Trucks

WORKERS



- Tag electronics and integrated within a badge
- Wristband, helmet or suit options.
- ATEX for hazardous areas

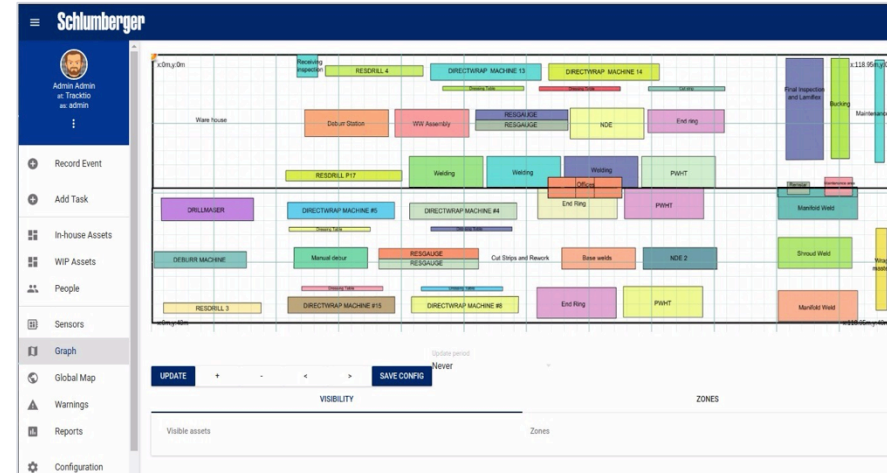
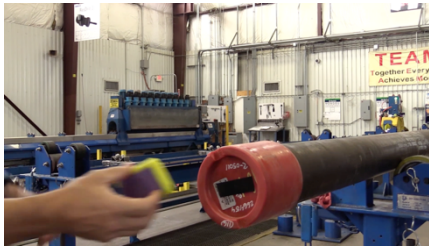
PROBLEM SOLVED

- Although production technology is already sophisticated, customer lacks a centralized real-time visibility of the assembly processes.
- Manufacturing digitization requires high accuracy tracking of parts and products.
- Integration with ERP or MES



Work In Progress – WIP Management

Schlumberger



Team productivity and worker tracking

RESULTS ACHIEVED

- Individual accountability
- Team coordination
- Safety – Lone worker. Remote monitoring
- Contractors audit



Warehouses: Real time inventory and location

Problem: Control over key logistic processes

- Pallets are located with 1m precision.
- Stocks in real time.
- Truck load –Expedition control.
- Forklifts located with 30 cm precision.
- Inverse logistics (RTI identification)



Yards – Large outdoor products flow

Problems solved

- Automotive: Large parkings with finished products.
- Containers and pallets are located with 2m precision.
- Trailers – Warehouse On Wheels
- Inverse logistics (RTI identification)
- Metrics examples: yard flow, stocks, heat zones, FIFO compliance, Task assignment to personnel, etc



Moltes gràcies !

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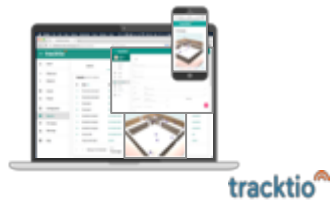


- Operational intelligence.
 - Real time KPIs
 - Easy integration with business applications (ERP..)
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- Location precision: 30 cm
 - Interaction with worker
 - 10 Km coverage
 - Accelerometer, sensors.

USER INTERFACE

ASSET AND PEOPLE TRACKING

Tracktio web based application



Plug-in of TrackSphere™

CUSTOMIZED DASHBOARDS

Front-End UI through API or DB Access

CORPORATE APPLICATIONS

MES, WMS, ERP, HR, etc



Integration through API or DB Access

**TrackSphere™ tracking server**

HARDWARE DEVICES

READERS - AUTOMATIC IDENTIFICATION

RFID Readers or

Bar Coding / Optical 2D



Tracktio handheld app

RTLS - HIGH PRECISION LOCATIONTracktio's
RTLS Stations
and tags**WIDE AREA TAGS + IOT SENSORS**Tag with GPS location +
wireless (LoRa, SigFox)