THE ADVANTAGES OF TRACEABILITY

Starting from standard traceability technologies (barcode), any business process can be optimized using RFID solutions.

Object

Process and work flow

- Knoweladge
- Manage
- Controll
- Monitoring
- Correct
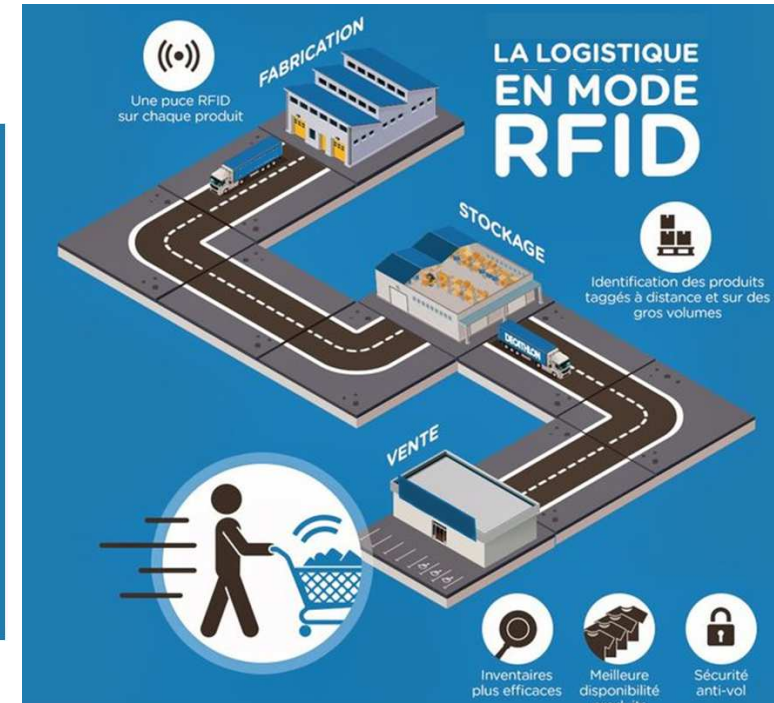
Vens
industrial technology

ZCS CONNESSI AL FUTURO

THE ADVANTAGES OF TRACEABILITY

Combining the appropriate software-hardware support (UHF, BLE, B / C, UWB) it is possible to collect process and logistics data in real time with minimum effort:

- from the raw material to the production processes;
- from the warehouse to the final consumer.

e items   Tag on the boxes   Tag on the truck

CONNESSI AL FUTURO

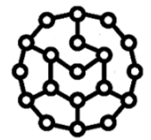# ZCS_Automation: infrastructure hardware & software

A large number of RFID devices can be managed, whose synergy and interaction lead to a 100% traceability of the tagged objects.

Zucchetti management software or WMS
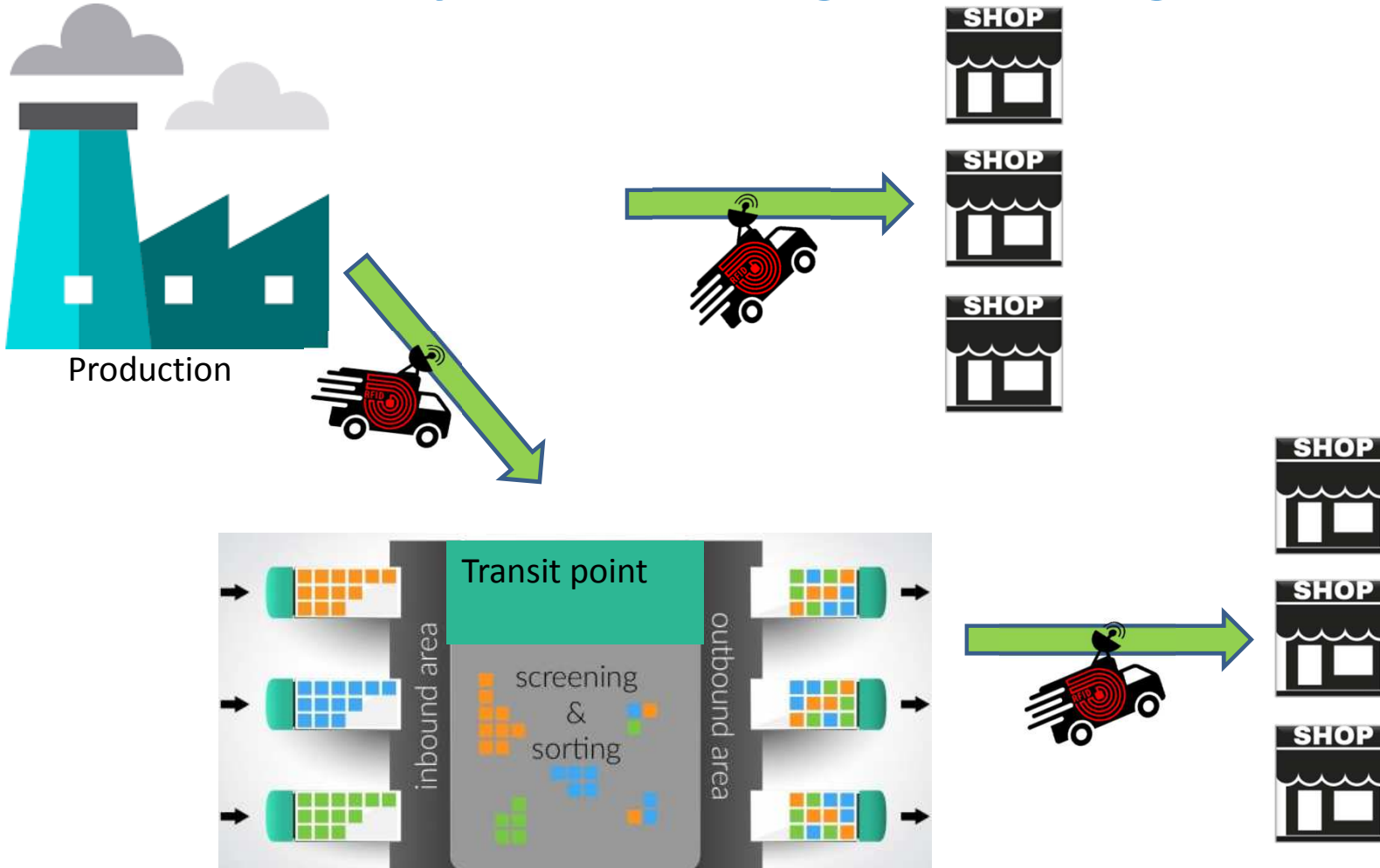Or third part management software

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ZCS-RFID machines

- Quantity optimization
- Inventory optimization
- Flow control
- Real-time credit management
- Minimization of labor

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Industrial Laundry 4.0 – RFID logistics management

Production

Transit point

inbound area

outbound area

screening
&
sorting

SHOP

Vens
industrial technology

FIP

ZCS_Automation: Tag technology and performance

RFID	Description	Application
UHF	Passive Tag RF 860 e 960 MHz. Infrastructure hardware/software Reading range 0-10m Hiresitence tags up to 200 washing cicles	Fashion Werehouse Veicle fleet Static reading 3000tag 20sec Dynamic reading 200tag/sec
BLE	Acrtive Tag Bluetooth 4.0 5.0 Infrastructure hardware/software BLE 4.0 up to 30m / BLE 5.0 up to 60m BLE 5.0 mesh Could be equipped with sensors up to 2years (in fuction of the battery)	Traceability of big areas Standard up to 25tag at the same time
868	Acrtive Tag RF 868MHz Infrastructure hardware/software Hi reading distance up to 500m up to 2-3years (in fuction of the battery) Modulare I/O; led; sensors	Traceability of big areas RF long-range e low-power a 868 Mhz protocol 802.15.4 Multiprotocol Wi-Fi, Bluetooth 4.2 e 802.15.4
UWB	Acrtive Tag RF 6,35 a 6,75 GHz Infrastructure hardware/software Hi reading distance up to 300m up to 2-3years (in fuction of the battery) Could be equipped with sensors	Traceability of big areas RTLS real time positioning Up to 1000 tags per second

CONTROLE CHARGEMENT CAMION OU REMORQUE

Smart Truck is the technology developed by Zucchetti Centro Sistemi that allows you to add geolocation to the classic RFID-UHF traceability.

The ZCS RFID-SMART TRUCK technology allows to associate the inventory of vehicle content with the GPS position.
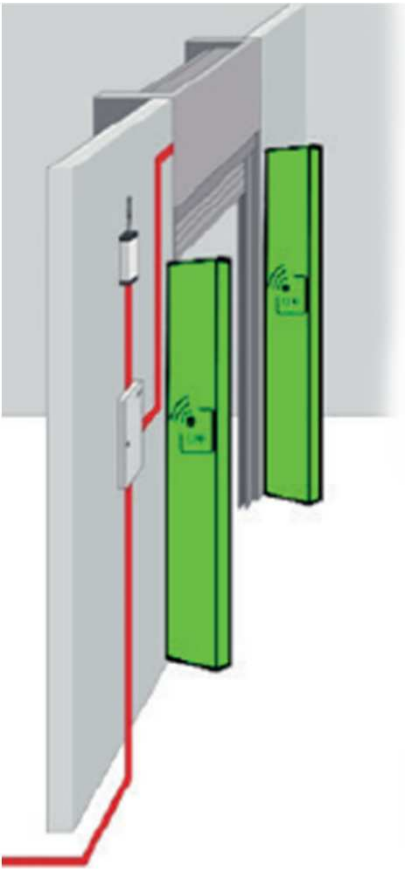
SMART TRUCK technology is scalable: it can be used both on small vehicles for mixed transport (eg Fiat Doblò) and on industrial vehicles (eg Iveco Eurocargo).

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CONTROLE PAR PORTE OU AERIEN

The Open Gate Portal allows the complete traceability of objects tagged to the passage without any impact on labor and operations.

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ZCS_Automation: integrated logistics

Our automation and traceability systems operate in the industrial sectors, in production, maintenance and logistics processes, guaranteeing total control and traceability of any type of object.

We specialize in supporting customers in special projects and strategic choices to save time and costs, minimizing waste and optimizing efficiency in the flow of value. Technologies used: RFID, BLE.

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ZCS_Automation: RFID mobile device

RFID mobile reader device
UHF e BLE e BarCode
Android smartphone compatible
Bluetooth printer

aPickDrop

CONSEGNA

RITIRO

INVENTARIO

LOADER

LOGIN

ZCS aPickDrop: App

RFID | 1D Barcode | 2D Barcode | IRIS | NFC | 4G | WiFi | Bluetooth | GPS | Camera

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Distribution

It is an effective and smart solution for distributing and tracking PPE uniforms, footwear and devices.

By adopting machines with access control and products with RFID-UHF tags, it is possible to outsource and have total control of services through traceability (who, what, where, when).

The implementation of RFID-UHF solutions makes it possible to reduce variable costs and make the service more efficient in terms of control and maximum availability of H24 products.

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AUTOMATION & TRACEABILITY SYSTEMS FOR INDUSTRY

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