

Identification and Location Solutions Industry and Logistics

Dashboard

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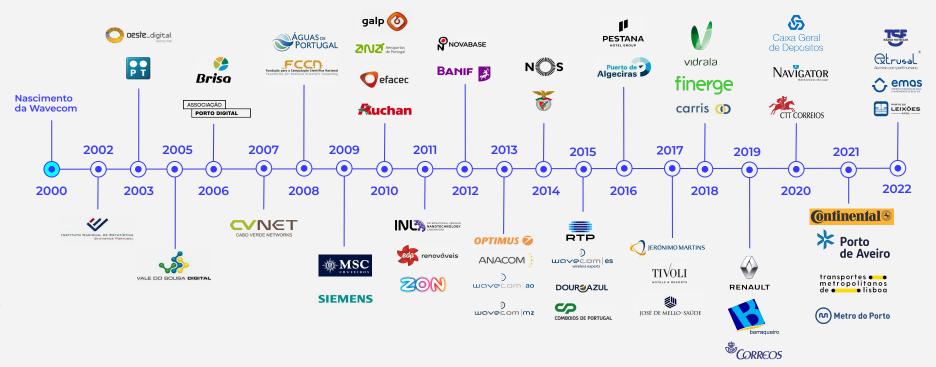
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We are a communications engineering company that focuses on **innovation** and the creation of its own, differentiating solutions. We were born in 2000, and we gained market recognition as wireless technology specialists.

Now, we have offices in multiple locations (Portugal, Spain, and Africa), and we are a group with about 100 people who are highly specialised in varied ICT technologies.





Our Services



Audits to infrastructures and systems



Specialised ICT **consultancy** and support to strategic management



Site-survey for the implementation of technological infrastructures



Design, planning, and elaboration of networks, infrastructures and DC



Project management



Implementation, integration and commissioning



Certification of networks and solutions



Support, **Maintenance**, and monitoring



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Wavecom Global Offer



Use Cases - Industry and Logistics

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The Challenge

Difficulties in current identification and digitization processes

Time spent on manual chipping

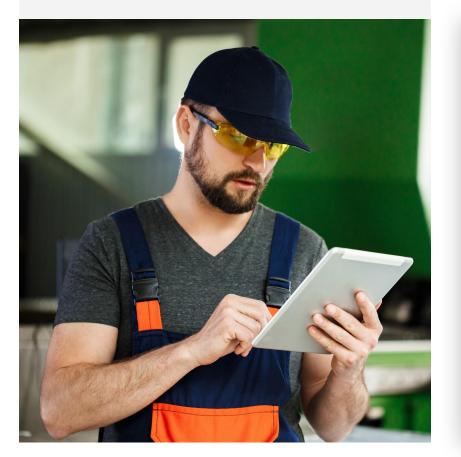
Problems with automatic barcode readings

Manual processing of product/batch information



Digitalization





Solution

Disposable or reusable tags placed on WIP and readers at key points

Automate decisions dependent on correct identification at these points

Eliminate human errors

Move workers to value-added tasks

Automatic Inventory



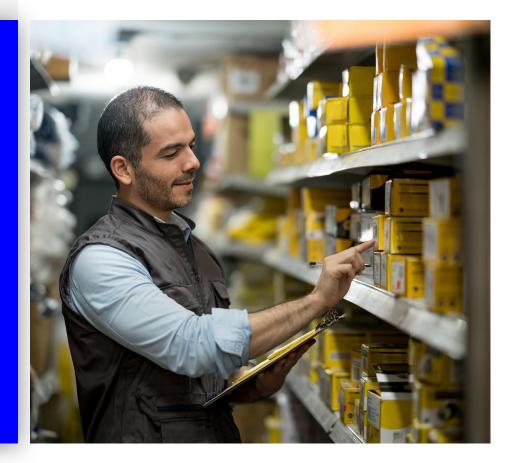
The Challenge

Equipment and tool inventory issues

Time spent looking for equipment/tools

Lack of information about its use

Stock losses and unnecessary purchases



Automatic Inventory





Solution

Tags with location placed on equipment/tools

Always up-to-date geolocated inventory of tools

Eliminate time and effort spent on inventory processes

Information on the use of equipment in order to avoid unnecessary purchases

eKanban



The Challenge

Inefficiencies in Kanban processes

People allocated specifically to tasks related to Kanban cards (waterspiders)

Delays in the pull process lead to higher safety stocks and higher buffer capacity

Lack of real-time visibility into processes and movements



eKanban



	Push	Pull Kanban	Pull Kanban Digital
Metodologia	Just-in-case	Just-in-time	Just-in-real-time
Invetário	Ineficiente	Otimizado	Ajustado
Tempo de entrega	Longo	Médio	Curto
Desperdício	Alto	Baixo	Eliminado
Confiabilidade dos dados	Média	Propenso a erros	Alta
Visibilidade	Limitada	Limitada	Tempo-real
Transferência de info	Difícil	Moderada	Suave
Custos de operação	Baixos	Altos	Baixos
Melhoria contínua (Kaizen)	Possível	Adequado	by design

Solution

Location tags placed on shipping containers or crates to automate Kanban moves

Remove information delay to decrease buffer size and amount of stock

Eliminate human error - wrong printing or lost cards

Provide visibility on processes and movements in real time and centrally

eMTO



The Challenge

Make to Order (MTO) production complexity

High lead time, resulting from the search for WIP and/or components needed for production

Difficulty in order management due to lack of visibility of production stages and/or unprofitable tasks









Solution

Replacement of paper orders with reusable tags with location

Eliminate downtime and lost time looking for components, reducing lead time

Give visibility over processes and production stages, gaining the ability to act on production delays and better plan

Ensure faster and more transparent audit processes

Verificação de Expedição



The Challenge

Manual Dispatch Verification

Time spent on manual picking tasks

Human errors that can lead to missing or wrong products



Shipment Verification





Solution

Disposable RFID tags placed on pallets and reading gantry at loading docks with alert systems

Automatic, real-time verification of shipping lists by identifying the pallet that was loaded

Real-time alerts when detecting the load of a pallet that does not belong to the dispatch list

Hygiene and Safety



The Challenge

Compliance in HST processes

Ensure evacuation of all employees

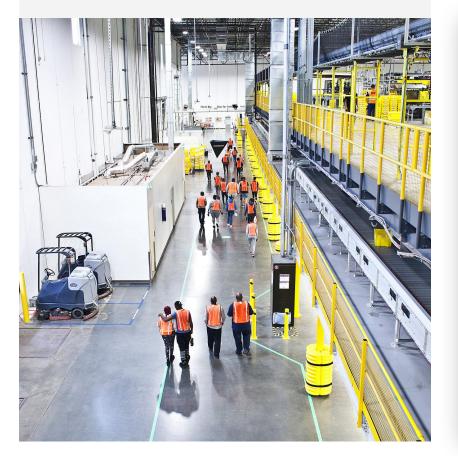
Prevent employees from entering danger zones or staying there too long

(Covid-19) Minimize crowding situations and track contacts



Hygiene and Safety





Solution

Collaborators with location tags

Automatically ensure the presence of all employees at the evacuation meeting point

Define danger zones to notify employees or create mechanisms that stop the danger, preventing accidents

(Covid-19) Identify and signal areas with too many employees or employees who are too close, in order to change movements or processes

(Covid-19) Tracking of the history of people and areas contacted by an infected employee

Forklift Routes



The Challenge

Inefficiencies in forklift operations

Time spent on long journeys due to layout problems in the warehouse

Unidentified congestion zones

Excessive waiting times



Forklift Routes





Solution

Location tags placed on forklift trucks allowing movement analysis

Identification of overly long routes (spaghetti maps) and congestion zones (heat maps)

Identification of stop times and the locations of these stops

Possibility of optimizing the size of the forklift fleet



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NP 4457:2007, ISO 9001, ISO 14001 e ISO 45001:2018

