

A world map in shades of blue with several glowing white nodes and connecting lines. Some lines are thin and white, while others are thick and orange, representing a global network or data flow.

# Estrategias de picking en distintos sectores

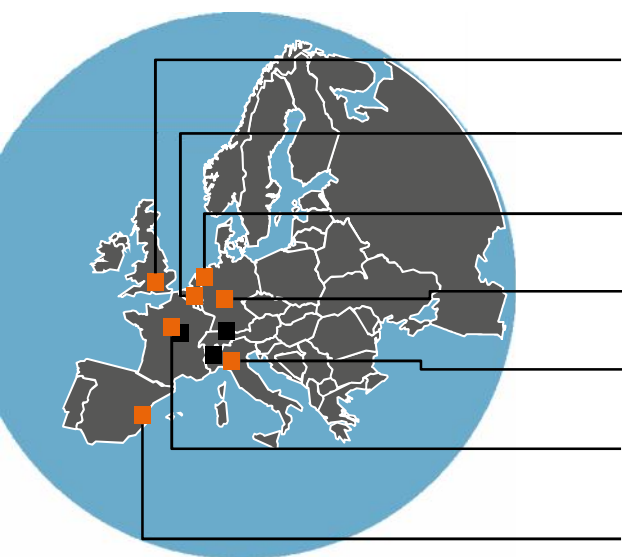
Barcelona, 23 de abril 2015

## Agenda

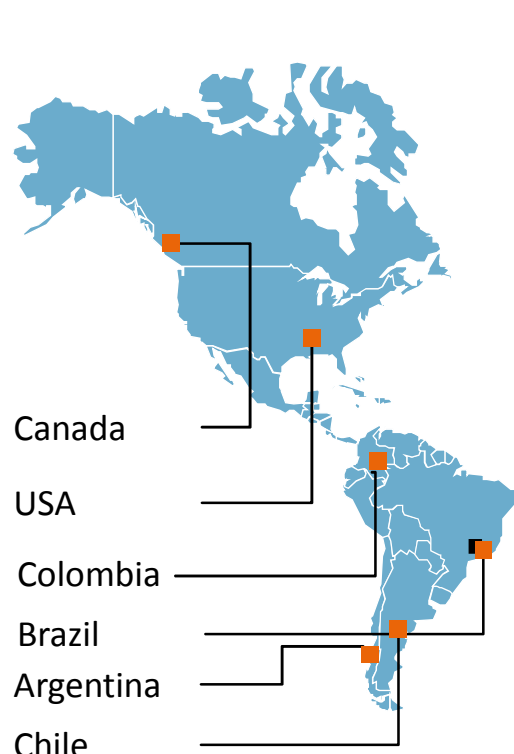
- > Vanderlande
- > Envases primarios
- > Envases secundarios
- > Conclusiones

# Presencia global

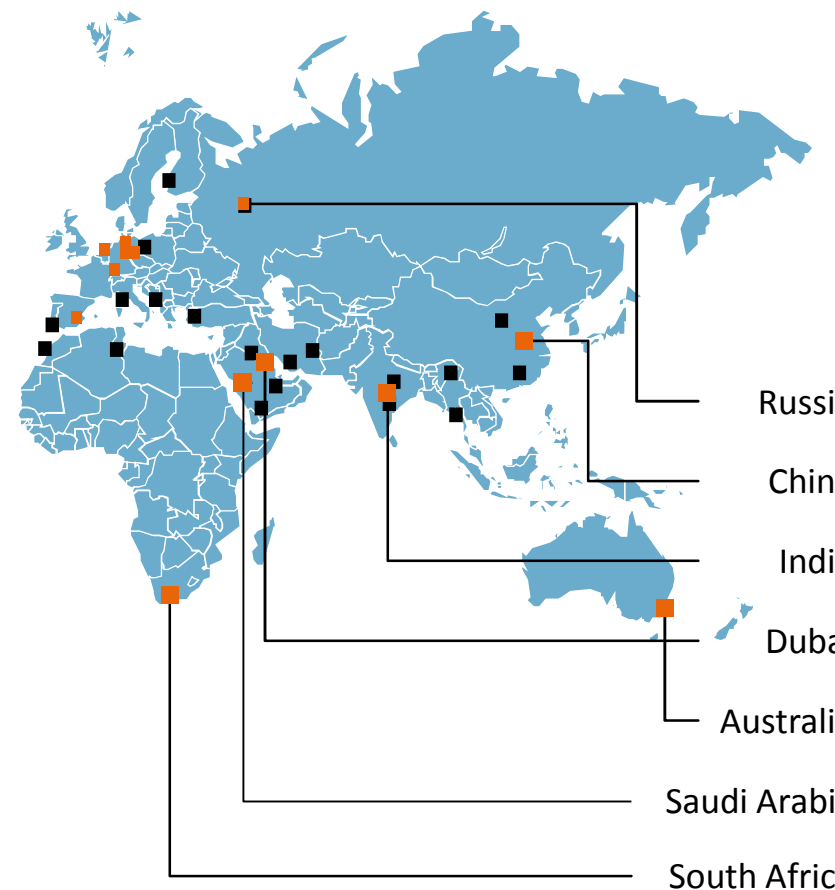
- > Clientes en 105 países
- > Oficinas en 17 países
- > Más de 3.000 empleados



- UK
- BE
- NL
- Germany
- Italy
- France
- Spain



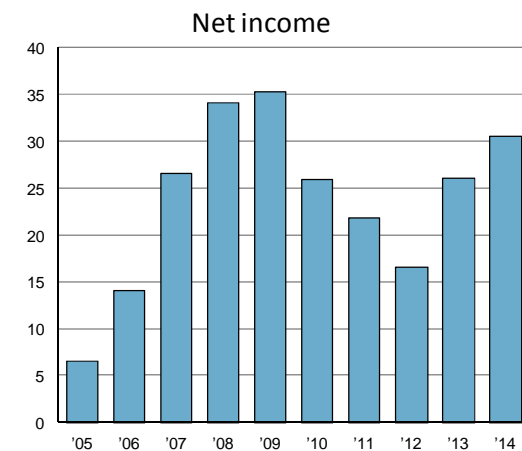
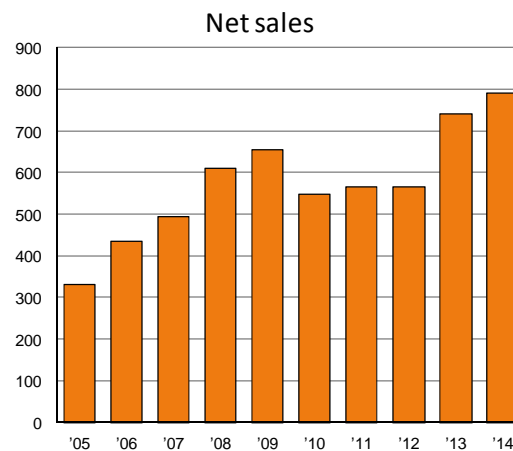
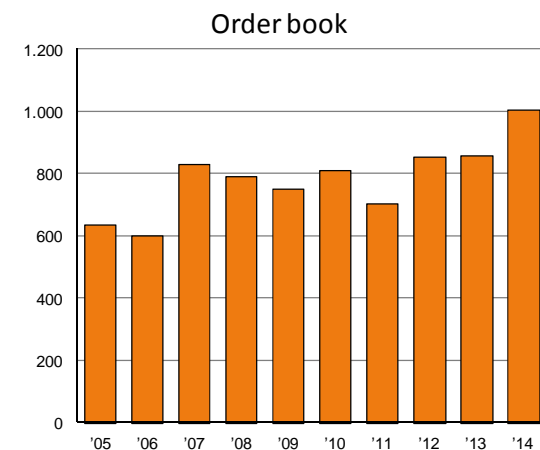
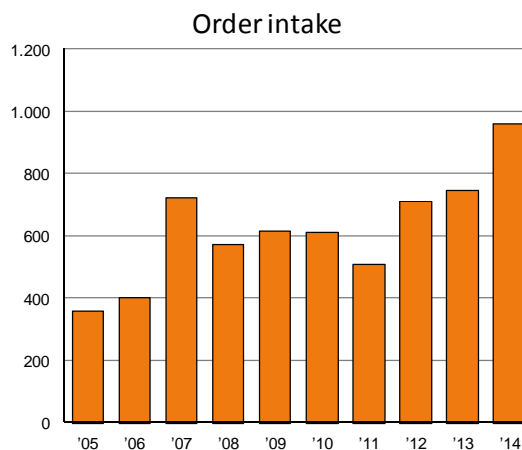
- Canada
- USA
- Colombia
- Brazil
- Argentina
- Chile



- Russia
- China
- India
- Dubai
- Australia
- Saudi Arabia
- South Africa

# Solidez financiera

> Pedidos	959.3
> Ventas	790.4
> Beneficio	30.6
> Cartera pedidos	1005.9



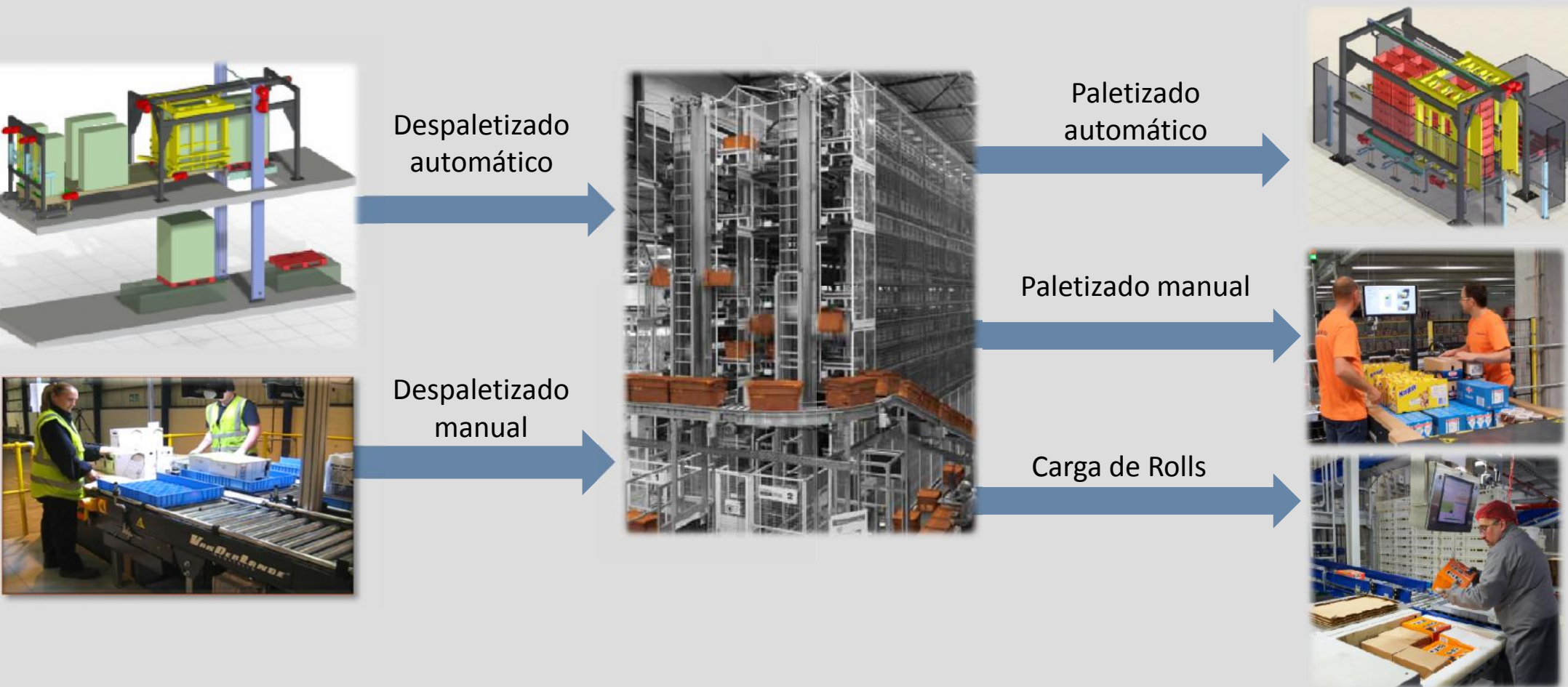
Año fiscal 2014 en millones de euros



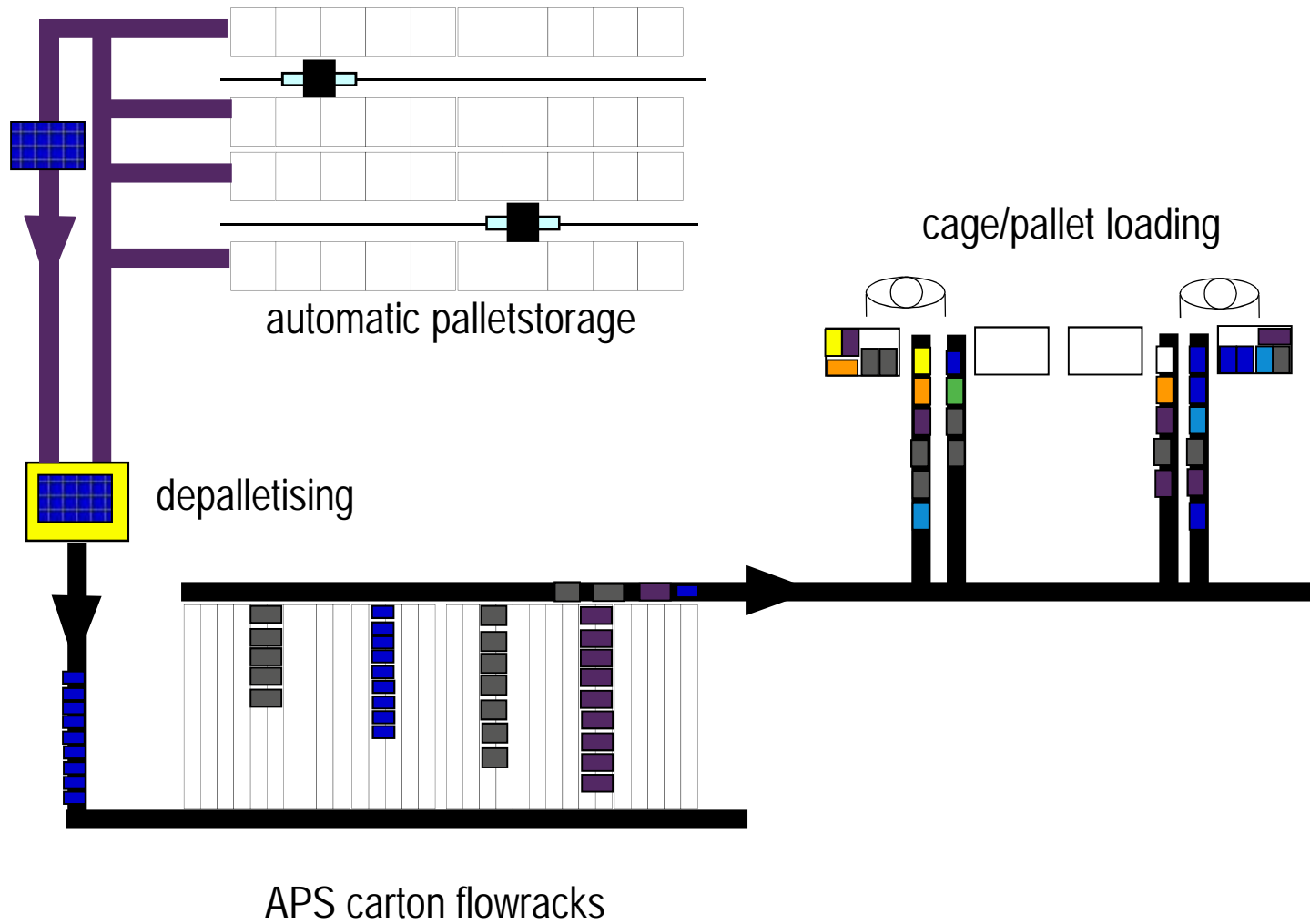
## Agenda

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# Case primary standardized



# vase primario semiestandarizado





# Envase primario no estandarizado

## Solución robusta y eficiente

- > Entrada manual de paletas
- > Estaciones ergonómicas de paletización
- > Clasificación inicial por rampa
- > Clasificación secundaria por etiqueta, PTL o voz



- > Producto seco
- > Producto fresco
- > Otros retail



- >100 instalaciones  
Food y Retail
- > Customización  
según proyecto



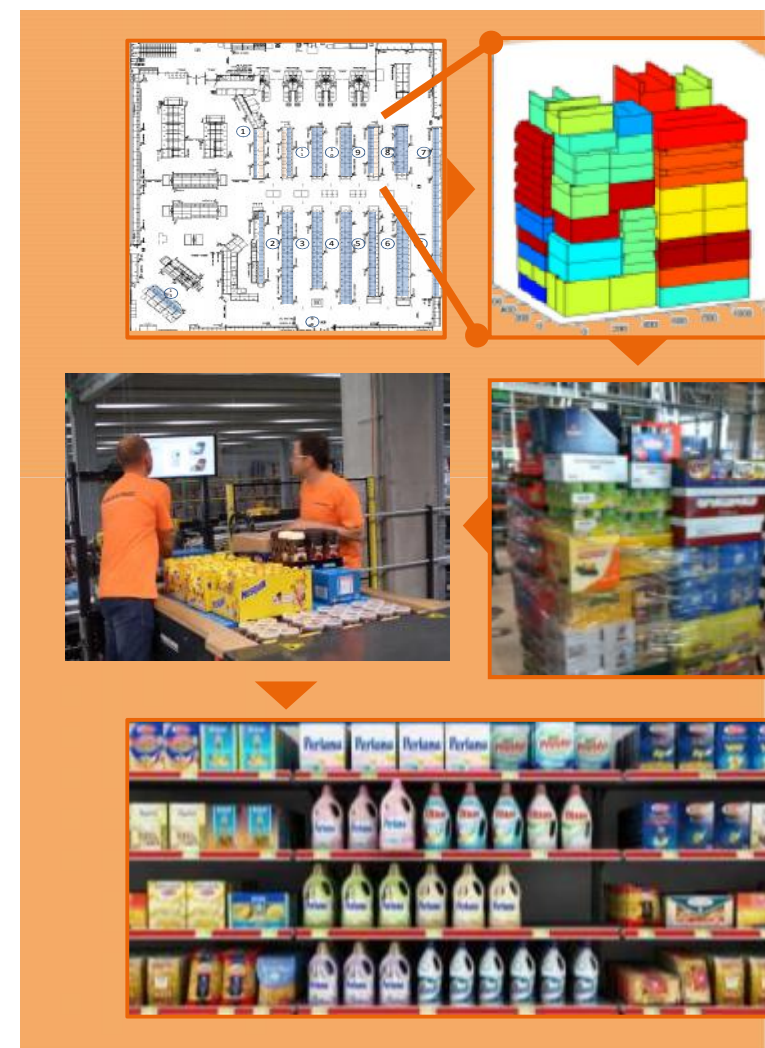


# Envase primario no estandarizado automático

Más allá de mecanizar las operaciones, crear valor

Reducción del coste hasta el punto de venta

- > TCO
- > Reducir el coste de transporte
- > Más store-friendly
- > Reducir tiempos de servicio
- > Precisión
- > Capacidad/m<sup>2</sup>

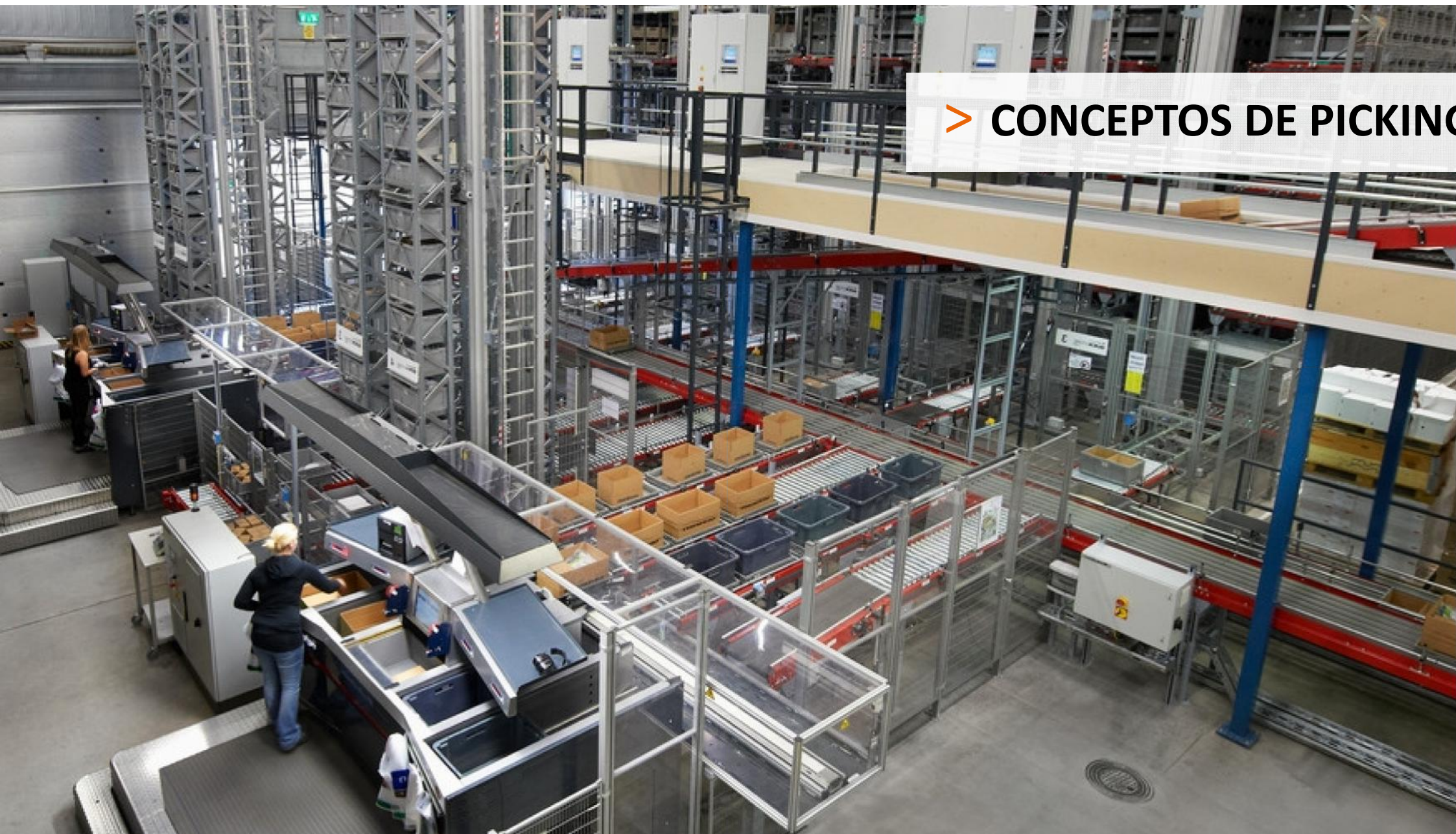


## Agenda

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**> CONCEPTOS DE PICKING**





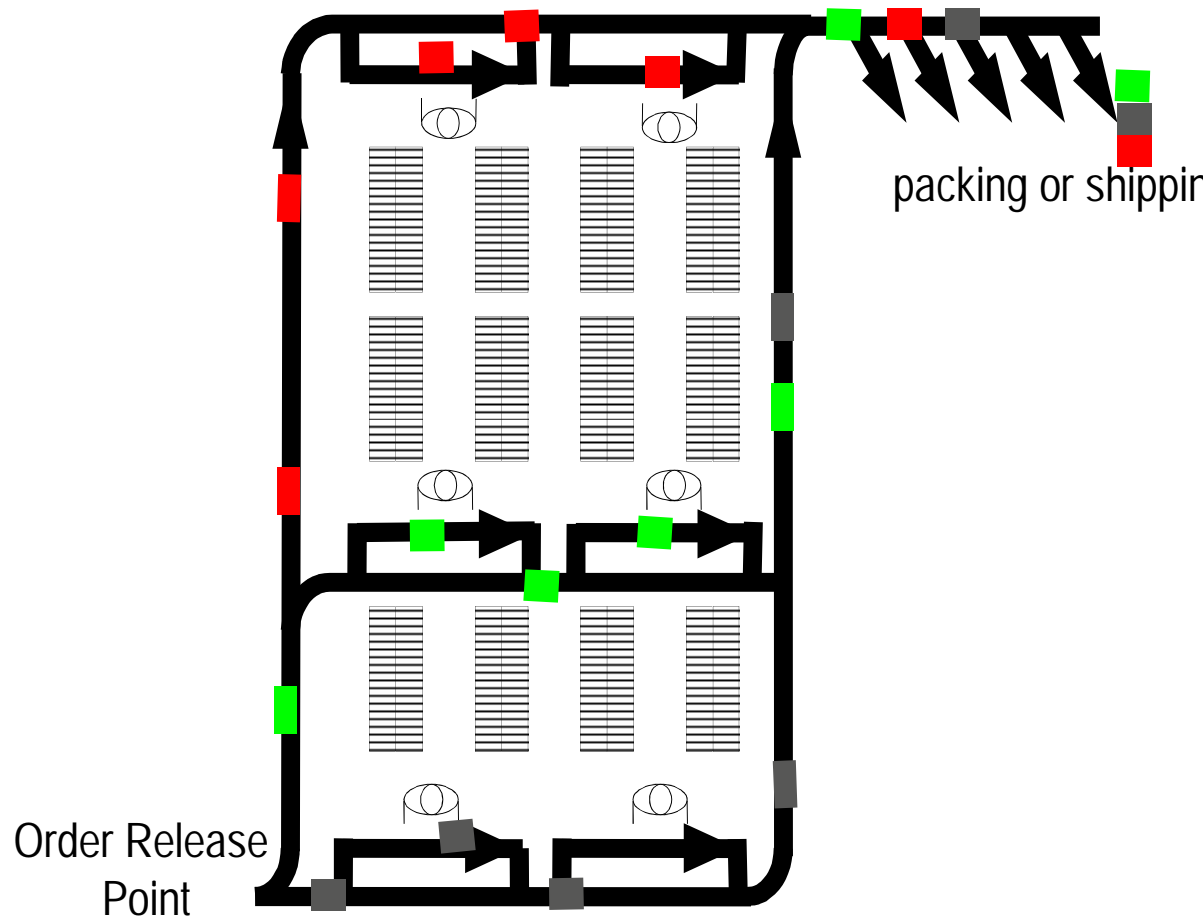
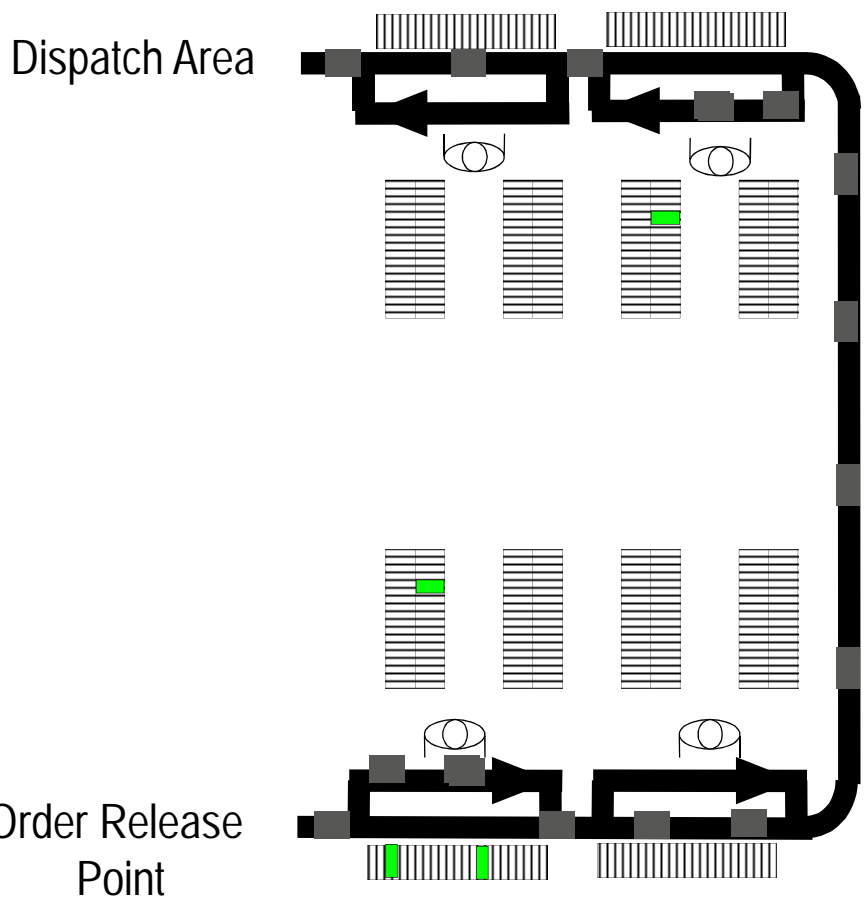
## Fiabilidad operativa

- > Fabricantes
- > Distribuidores
- > Operadores logísticos
- > Concepto de picking es clave:
  - Zone Picking
  - Order Distribution System
- > Distintos y crecientes grados de automatización





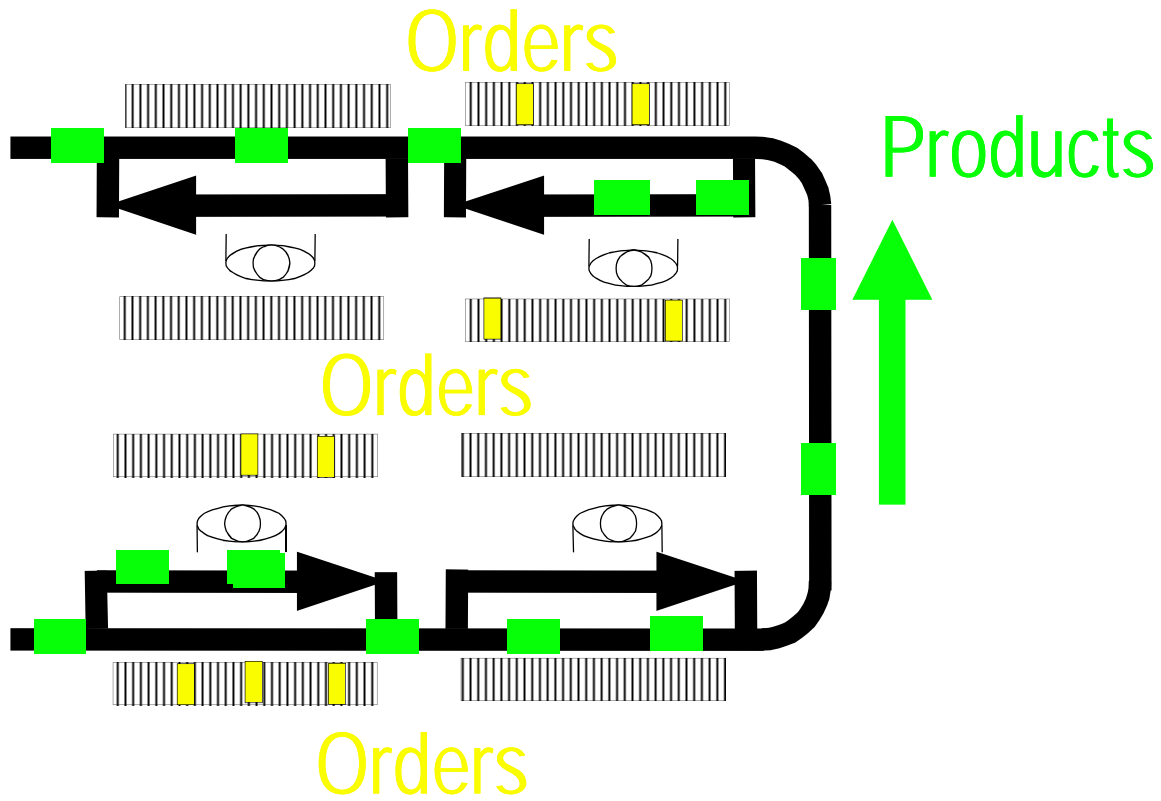
# ZONE PICKING (Pedido a hombre)



# ODS

Order Distribution System.

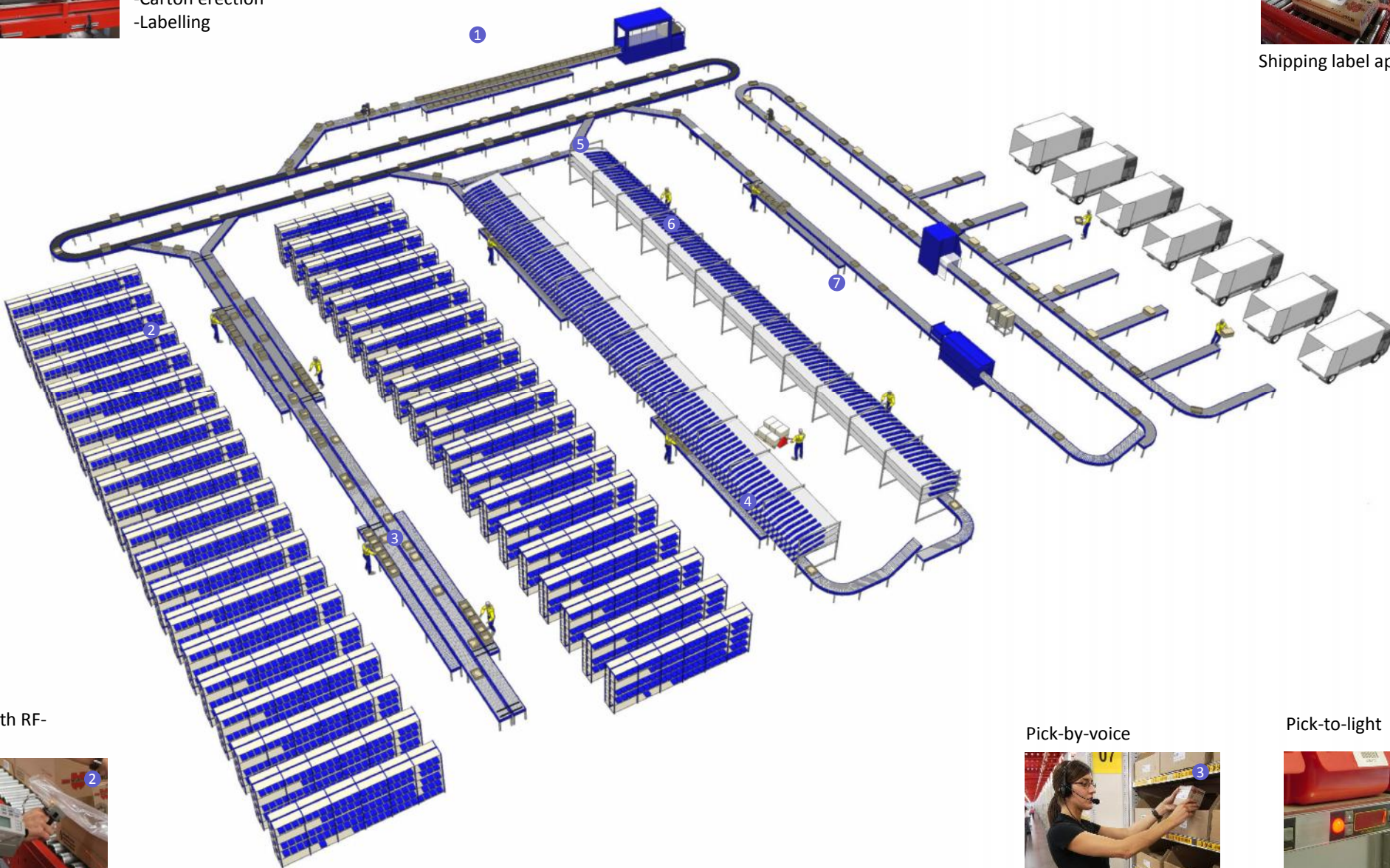
Empty or  
Return to storage





Order release and carton induction:  
 -Volumetric calculation  
 -Workload balancing  
 -Carton erection  
 -Labelling

# PICK/PACK SYSTEMS



Shipping label applicator



Automatic carton  
 -dunnage/shrink  
 -document insert  
 -closing

Quality check  
 repacking



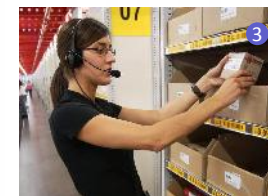
Weight-check



th RF-



Pick-by-voice

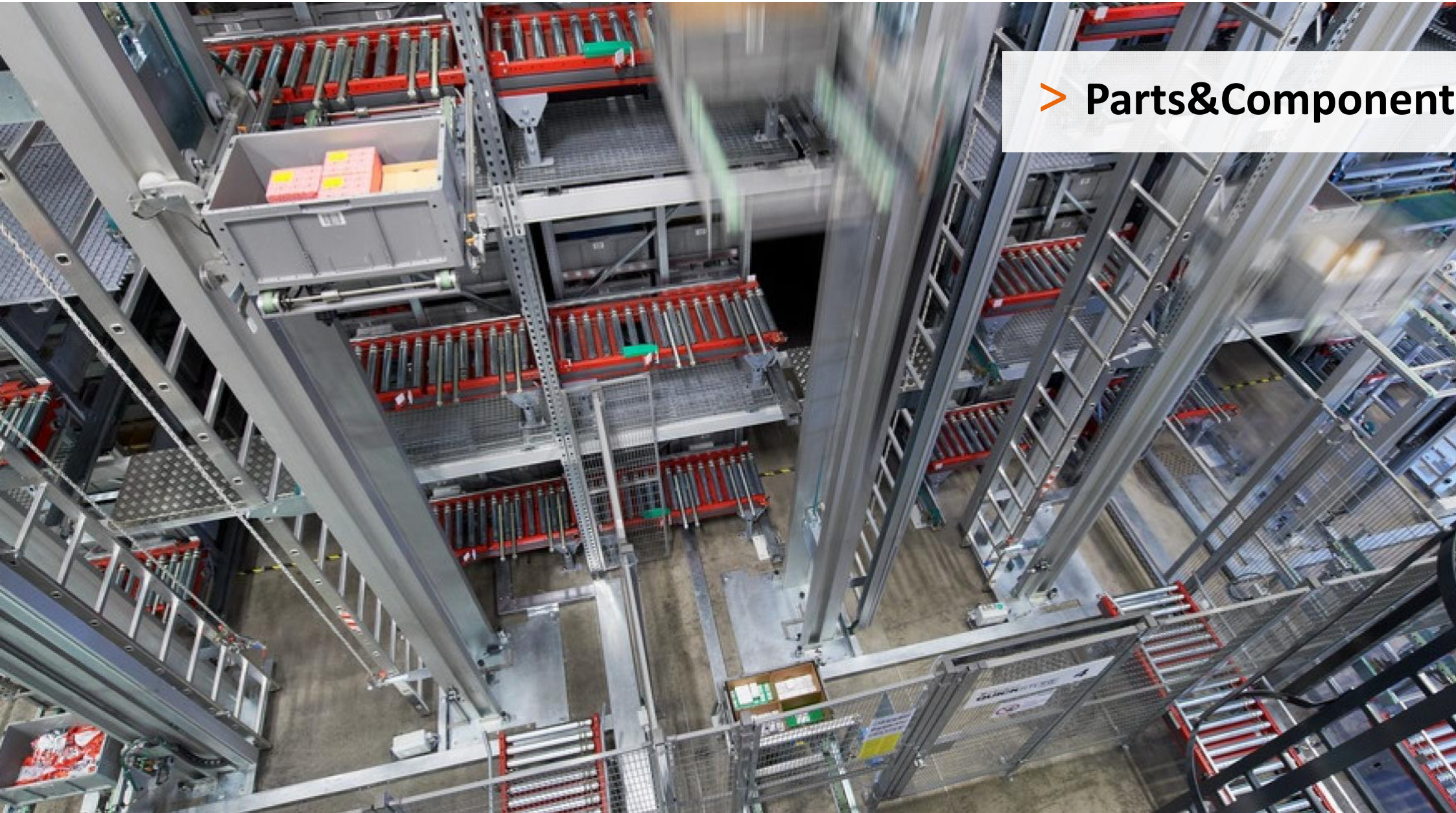


Pick-to-light





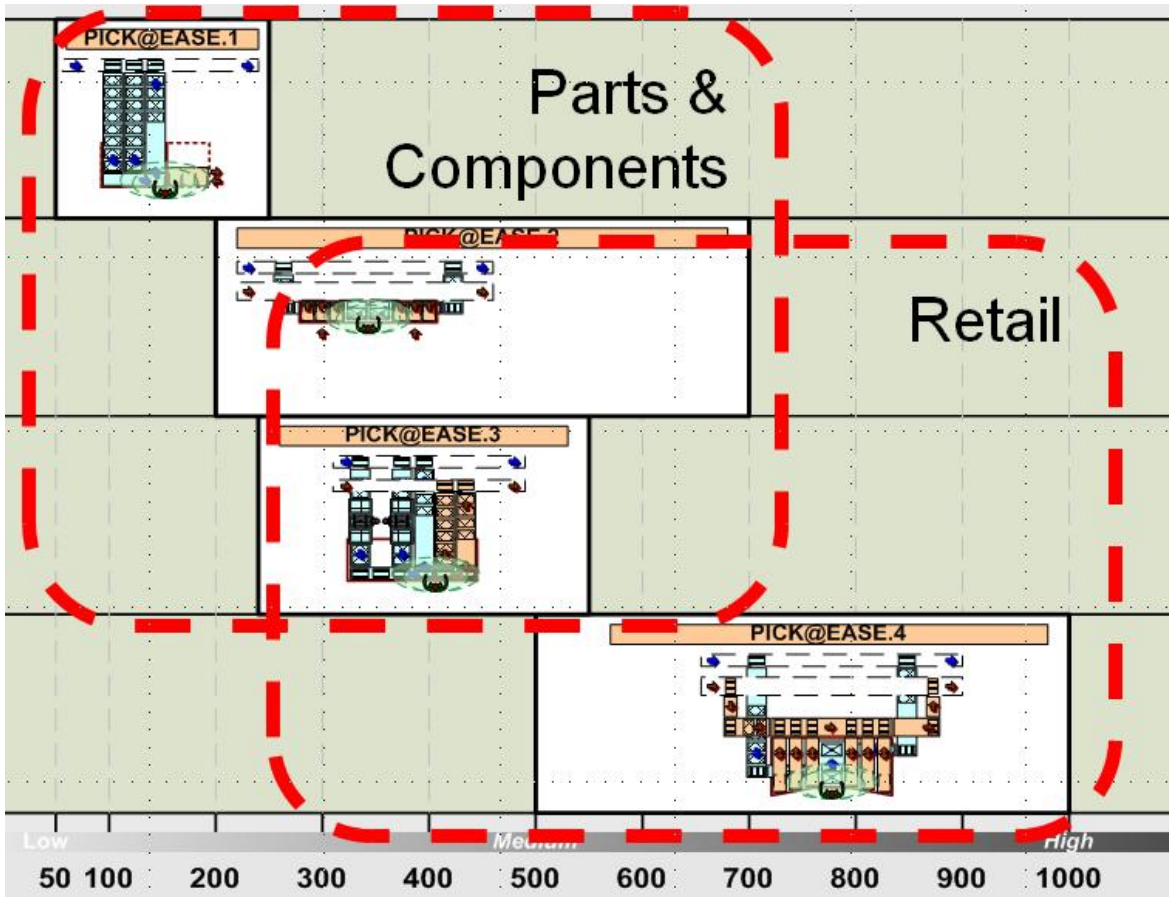
> **Parts&Component**





# Compact picking

Estaciones de alta productividad

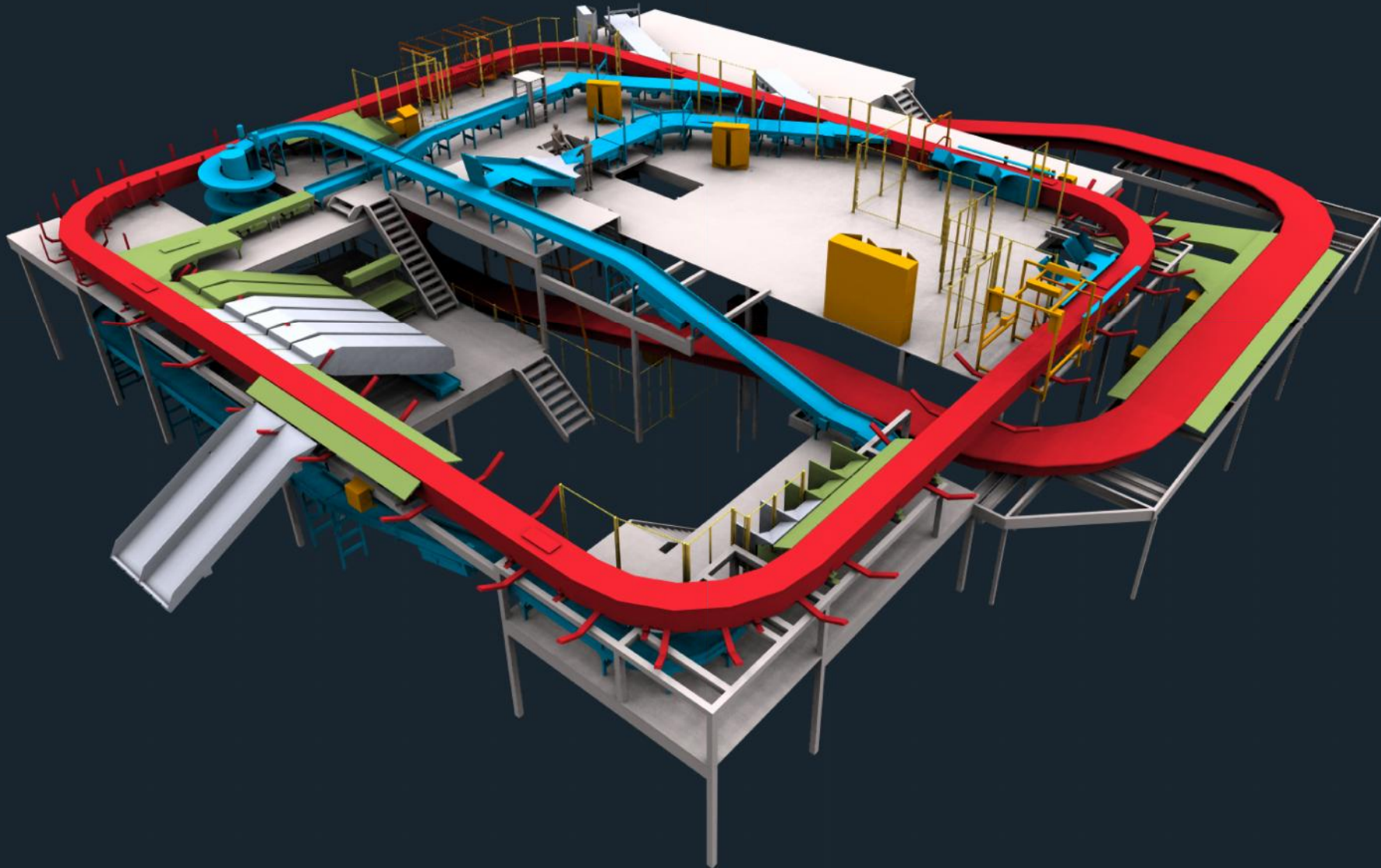




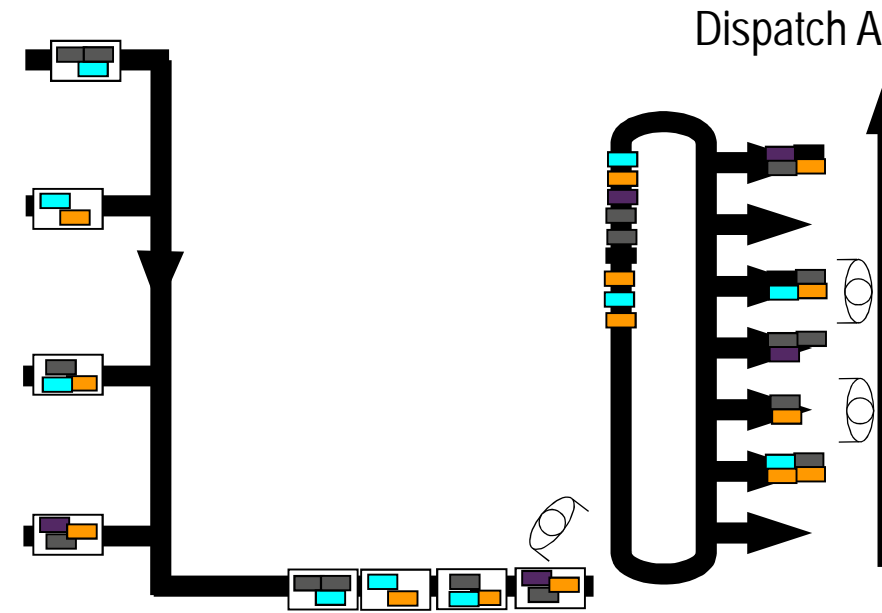
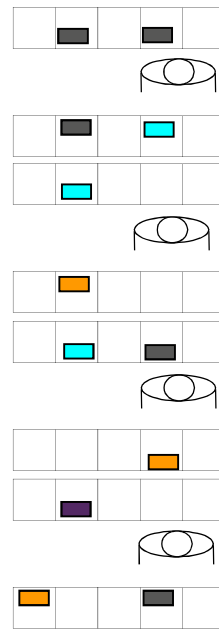
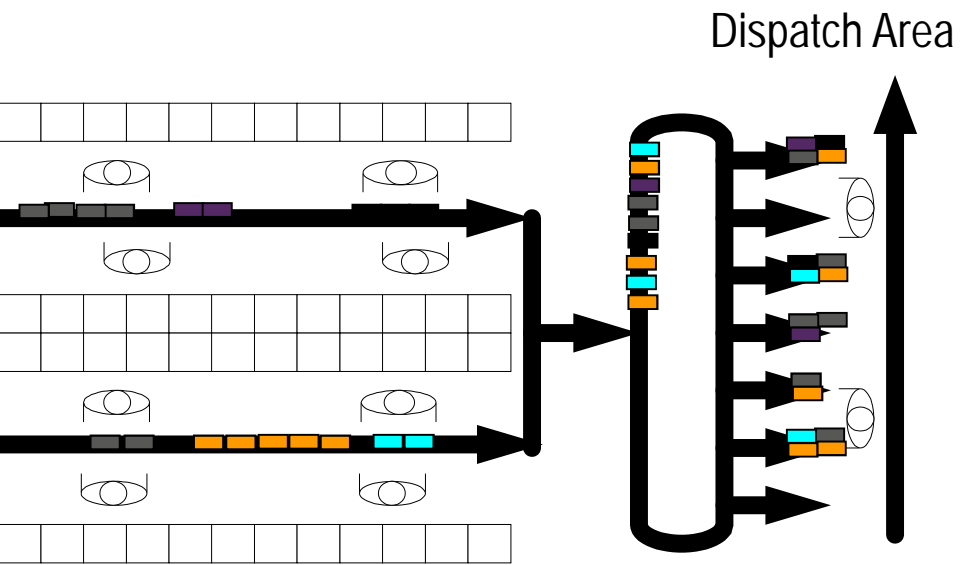


# > FAST project – Fashion Aligned Standardized Technology

**VANDERLAND**

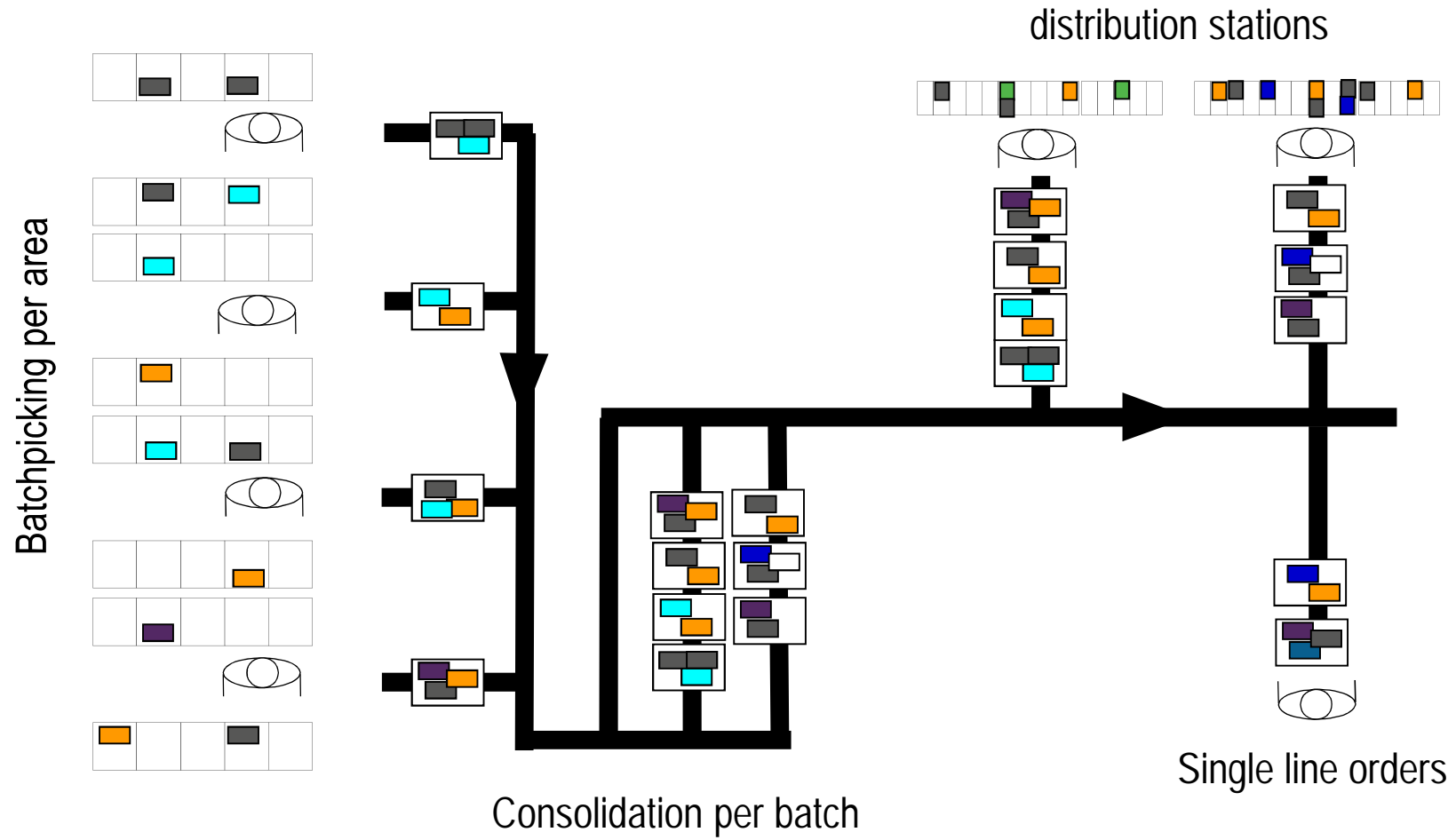


# Batch picking





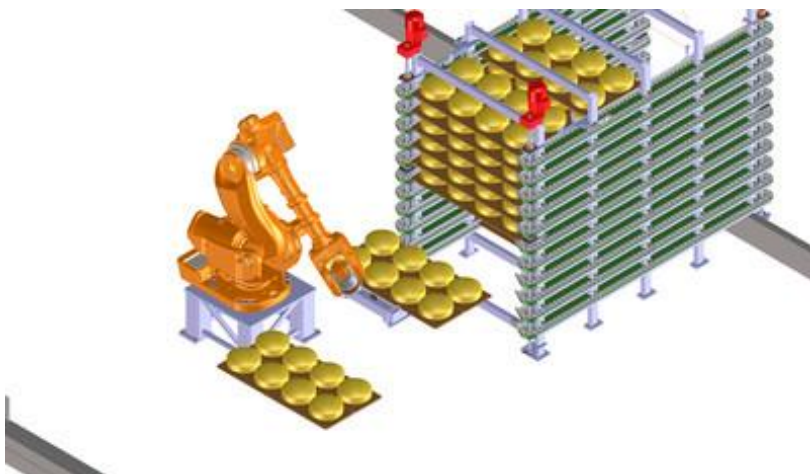
# Batch picking con minibatch



**> Conclusiones**

## Conclusiones

- > El embalaje condiciona la solución de automatización, y el coste logístico derivado
- > La estandarización de las soluciones por mercados reduce riesgos de proyecto y financieros
- > Picking de unidades: de la automatización a la robotización (Vanderlande Robotics)





***VANDERLANDE***