

# Warehouse management



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# Warehouse Management Systems

# What is a WMS?

- WMS – Warehouse Management System
- Tracks inventory from the point of receipt to the point of shipment
- Provides RF (radio frequency) functionality to enable mobile workforce
- Provides shipment creation, rating functionality

Requires a “Host” system to interface to

- ERP
- OMS (Order Management System)
- Purchase Order data, Sales Order data, Item Master data

# WMS example of functionality:

## Picking

- Supports "goods-2-man" principle and "man-2-goods" creation of all relevant types of picking order
- **formation of shipping units** - generation of packing information, which defines the exact position and alignment of each package on the pallet
- **picking using printed documents** or mobile data entry devices via **wireless data transmission**
- use of **pick-by-light, pick-by-voice, pick-by-vision**
- retrieval verification by scanning location or article barcode

# WMS example of functionality:

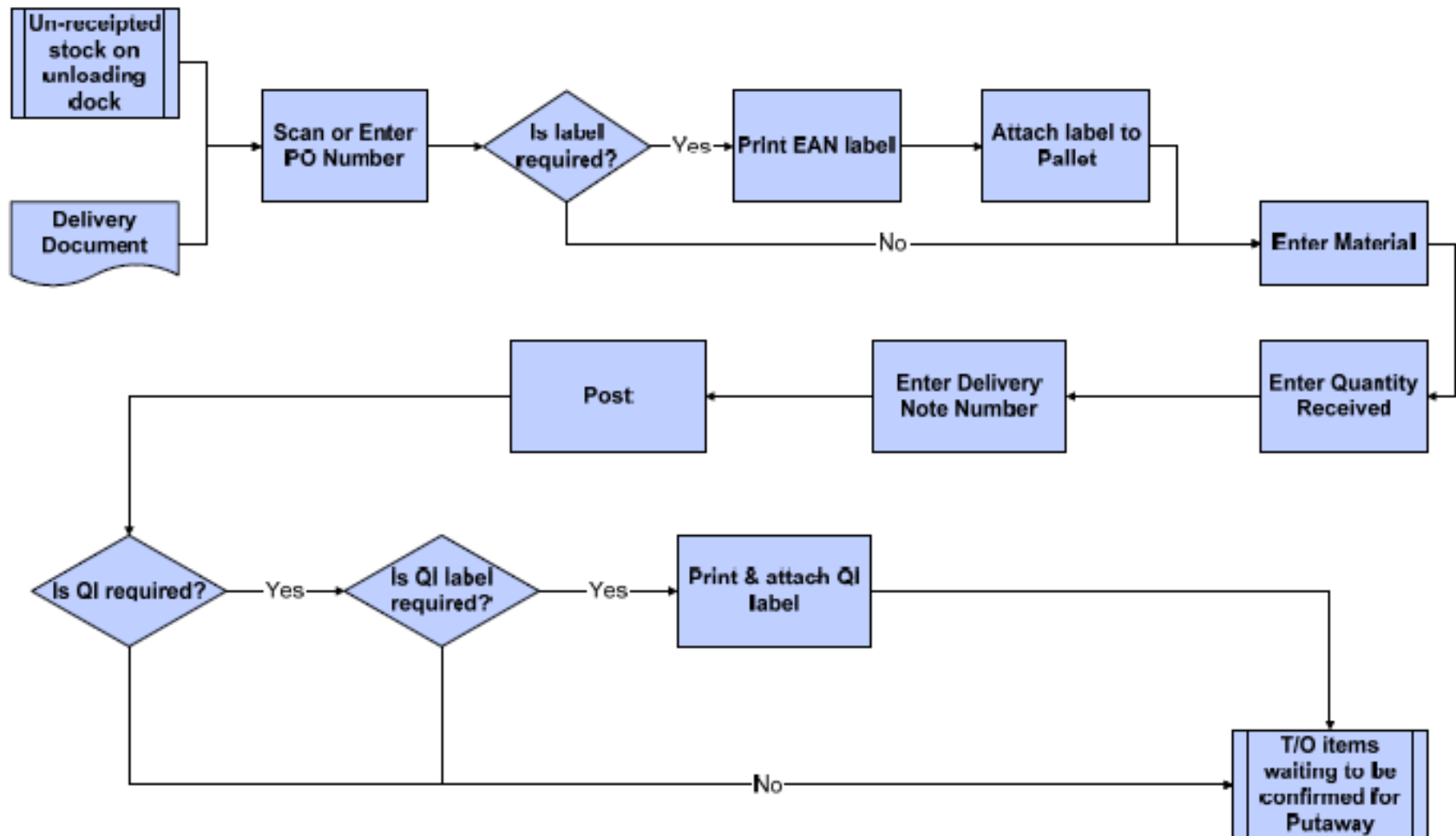
## Issues of goods

- transport management system, or **courier** services
- generation of tour-specific **freight lists**
- determination of the optimal shipment type (sea, air, rail, road)
- calculation of expected **shipment costs**
- automatic selection of the appropriate transport load unit (container, package, barrel) based on destination and shipment costs
- automatic allocation of carrier based on defined criteria, such as distance, load weight and number of delivery stops

## Controlling of freight cost by:

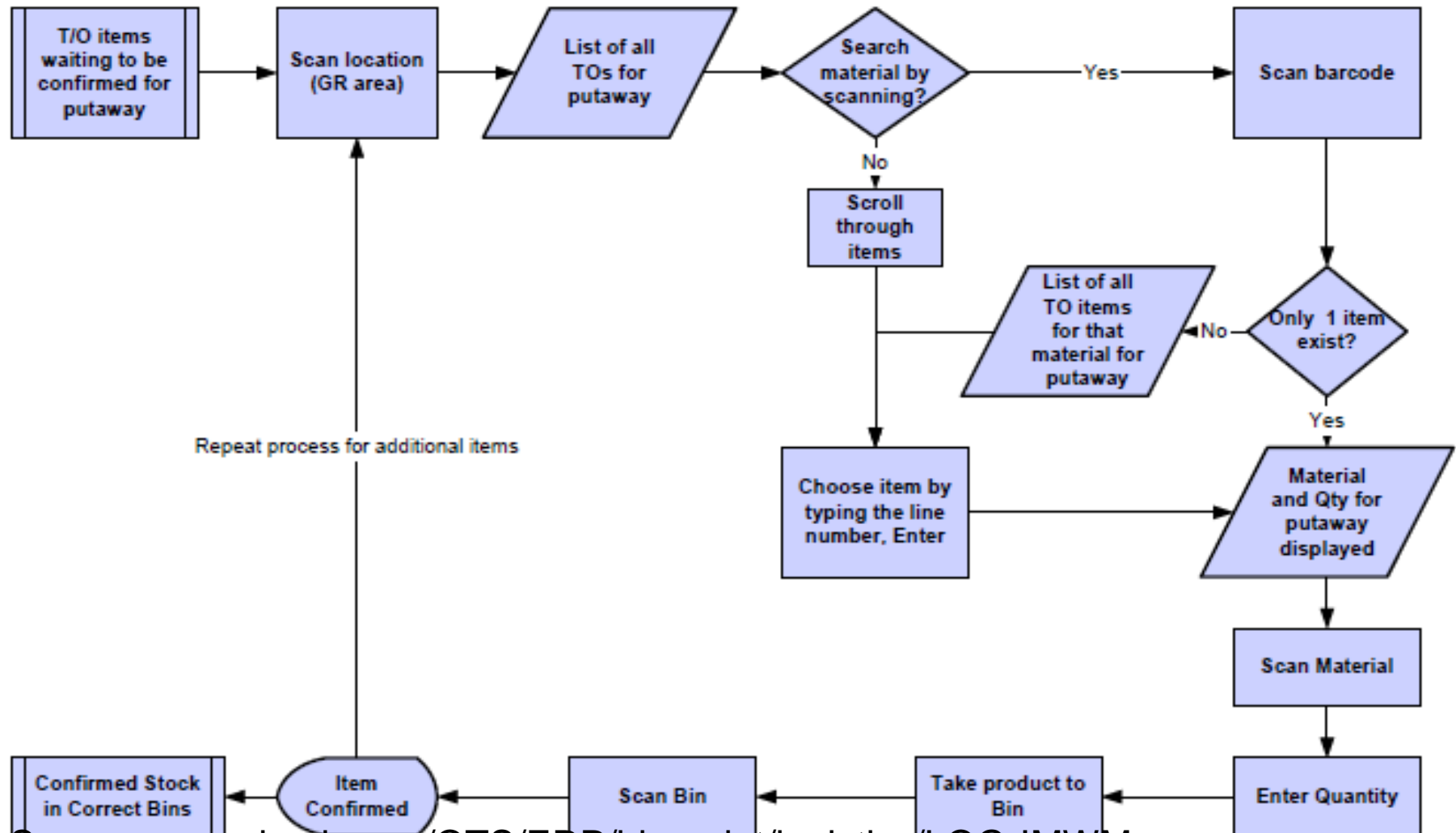
- distance travelled, number of packages, number of delivery stops, load weight

# Goods Receipt



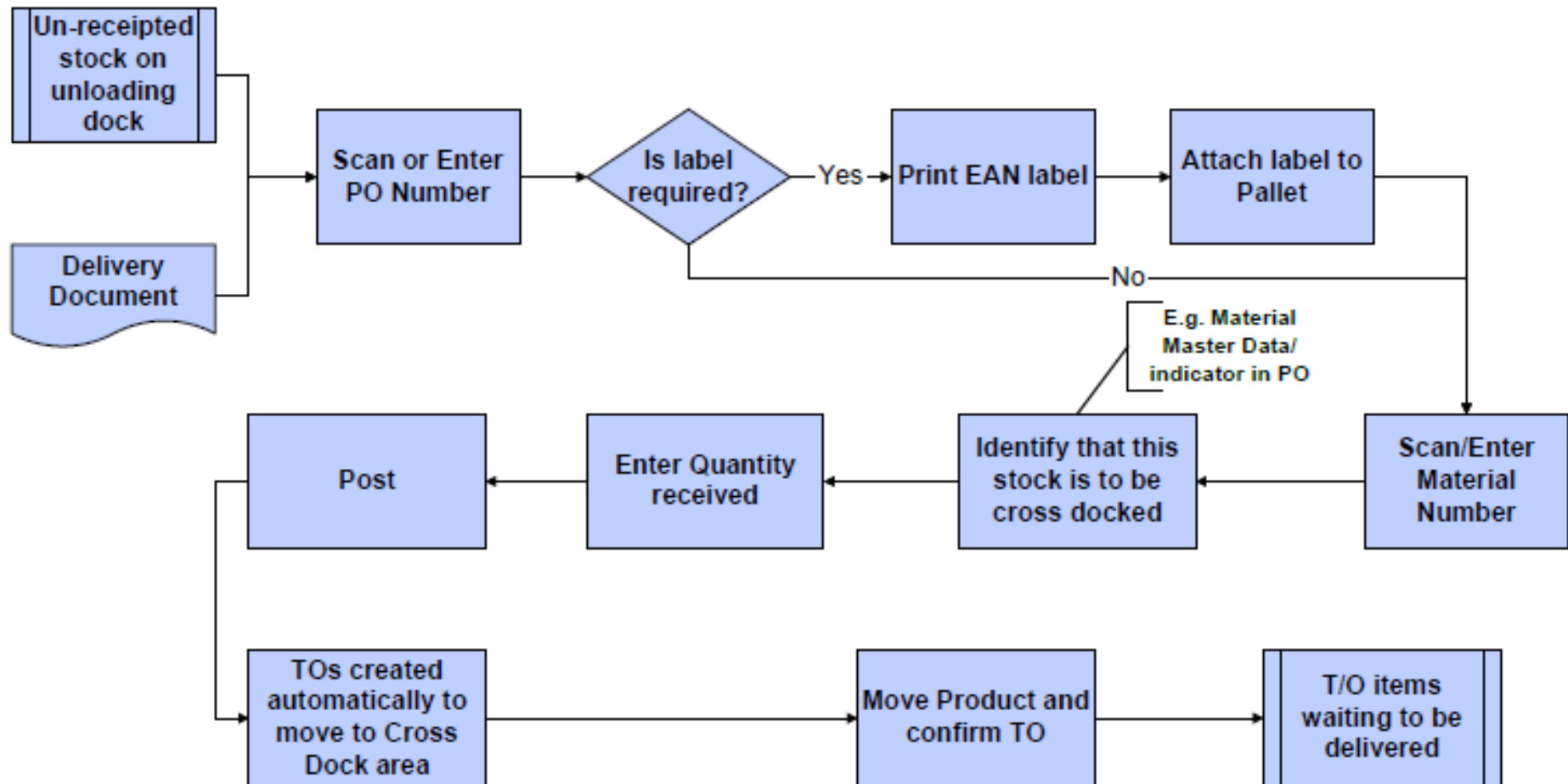
Source: [www.doa.la.gov/OTS/ERP/blueprint/logistics/LOG-IMWM-002%20Presentation.pdf](http://www.doa.la.gov/OTS/ERP/blueprint/logistics/LOG-IMWM-002%20Presentation.pdf)

# Putaway



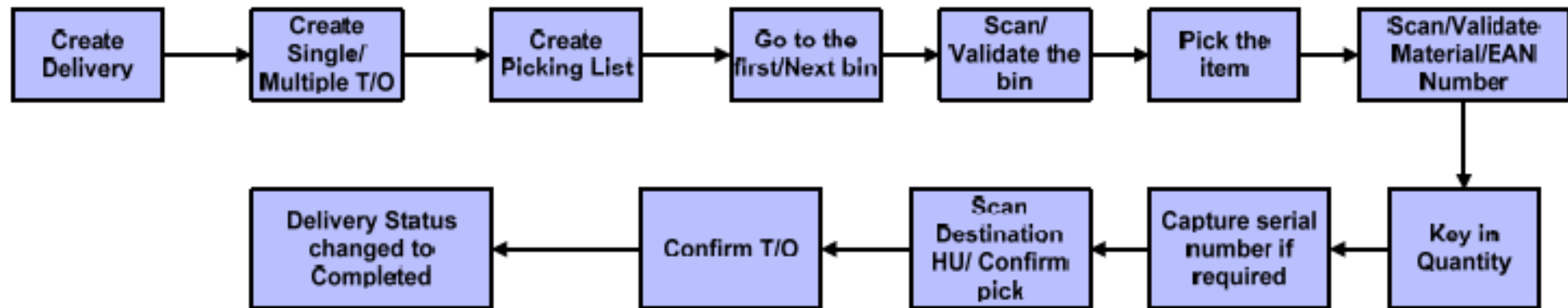
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# Cross docking





# Goods Issue



Questions ?????

