

Wholesaling & Distribution

Sub

The Importance + Types of Warehouses.

Warehouses are used to support

- Purchasing
- Production
- Storage + delivery

The greater the lag between production +
the longer time delay of delivery required.

Private Warehouses

Warehouses owned by the firm
serving the needs.

Private warehouses are owned by the firm
to better utilize its
warehousing expertise +
through warehousing + distribution.

Public Warehouses

Are for-profit only (short contract / lease)
a wide range of short-term,
warehousing + distribution
services. = diverse clients

Services provided by Public Warehouses

- ① Breakbulk → long-haul transports or broken down goods
is can be combined into specific customer orders + then shipped out.
- ② Repackaging → after breakdown, items are repackaged for specific customer details.
- ③ Assembly → some public warehouses provide final assembly to satisfy customer requests + create customer customized final products
- ④ Quality Checks → warehouse personnel can perform incoming + outgoing quality checks.

- ⑤ Material handling equipment maintains a documentation service
- ⑥ Short- and long-term storage.

RISK POOLING + WAREHOUSE LOCATION

RISK POOLING

↳ describes the relationship between

- the nr of warehouses

- system capacities

- customer service.

Risk Pooling describes that demand in the markets served by a warehouse system = relatively correlated
 (high-than-average demand in one market area tends to be offset by lower-than-average demand in another area).

DIFFERENCES B/W CENTRALIZED + DECENTRALIZED

① Safety Stock + Average System Inventory

- as the firm moves toward centralization
- fewer warehouses + more centralized warehousing

safety stocks ↑

average inventory levels across the system ↑

decreased.

② Responsiveness

- as the firm moves toward decentralization
- as warehouse centralization increases,

customer service levels provided by the warehouses supplies increasing the risk of late delivery to customers

customer service levels provided by the warehouses supplies increasing the risk of late delivery to customers

reducing the likelihood

of stockouts for a given level of average system availability.

warehouse inventory.

③ Customer Service to the Warehouse

- as centralization increases, customer service levels provided by the warehouses supplies increasing the risk of late delivery to customers

reducing the likelihood

of stockouts for a given level of average system availability.

warehouse inventory.

④ Transport costs

- as centralization increases, customer service levels provided by the warehouses supplies increasing the risk of late delivery to customers

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warehouse inventory.

⑤ Warehouse System Capital Spreading Costs

- as centralization increases, customer service levels provided by the warehouses supplies increasing the risk of late delivery to customers

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warehouse inventory.

RISK POOLING AND WAREHOUSE LOCATION

[Sub]

Warehouse location

Types of Location Strategies

① The Market Positioned Strategy

- locates warehouses close to customers.
- maximize customer service levels.
- This strategy = recommended when high levels of distribution flexibility and customer service.

② The Product Positioned Strategy

- locates warehouses close to sources of supply
- enables firm to collect various goods while minimizing inbound branch costs

- This strategy works well when there are large numbers of goods purchased from many sources of supply
- advantages of goods ordered by customers.

③ The Firm-Intermediate Positioned Strategy

- places warehouses midway between source of supply and the customers.
- This strategy = recommended when distributor service requirements are relatively high & customer orders are purchased from few suppliers.

LEAN WAREHOUSE

LEANER CAPABILITIES

- ① Greater emphasis on Crossdocking
 - warehouse employees receive shipments & mix them quickly into outgoing shipments.
 - fewer goods will be stored
 - average warehouse inventory levels will \downarrow
 - nr of stockkeeping units will \uparrow
- ② Reduced lot sizes + shipping quantities.
 - inbound and / or outbound shipping quantities are likely to be smaller & more frequent
 - combining mixed types of goods requires more handling.
- ③ A commitment to customers = Service quality.
 - warehouse employees must perform warehouse tasks to meet the requirements of their inbound & outbound suppliers + customers.
- ④ Increased Automation
 - to improve handling speed & reliability more automated equipment will become automated:
 - scanner/barcode computer linking systems
 - warehouse management software applications
 - automated storage & retrieval systems.
- ⑤ Increased Assembly Operations
 - As more firms implement lean strategies and more customization warehouses will be called upon to perform final assembly operations
 - meet specific customer requirements.

THE IMPACT OF LOGISTICS ON SCM

Sub

(For) Global SC's, the logistics function = Critical.

- Providing adequate bunk + storage
- Getting items through customs
- Delivering to foreign locations in a timely fashion =
logistics pricing

can all impact the ability of a SC to serve the foreign market competitively.

In many cases firms are forced to use outside agencies
or 3rd party logistics providers (3PLs) to move items into
foreign locations effectively.

② Internationalization
of business

③ Globalization
of supply chain
activities

④ Standardization
of products and
processes

⑤ Increased
global competition
from foreign
firms

OTHER TRANSPORT INTERMEDIARIES

① Freight Forwarders

- Freight Forwarders consolidate lots into small shipments ② fill cabin
truck trailers or rail cars
- (2) achieve economies load rate
base ratio.
- Freight Forwarders provide valuable ^{info} services to both the shipper (lower shipping rates)
and the carrier (extra business & higher capacity utilization)
- These comp^y or also provide door-to-door services
 - documentary services
 - Special freight handling
 - customs clearance.

② Transportation Brokers

- Also referred to as load brokers ~~or spot brokers~~
- Transport brokers bring shippers + base companies together.
- Transport brokers ^{are} legally authorized to act on the shippers behalf
 - a. typically more complex or hired because of their extensive knowledge of the many various alternatives available or simply due to many shippers needing base

OTHER TRANSPORTATION INTERMEDIARIES

③ Shippers' Associations

The American Trucking Association (ATA) defines Shippers' Associations as "non-profit member up cooperatives which make domestic & international arrangements for the movement of members' cargo".

- ↳ Their job = 2 consolidate ~~by~~ their members' shipments
 - Full carloads
 - Bundles or
 - Container loads
- ↳ achieve volume discounts @ the members
- ↳ negotiate ~~for~~ improved terms of service.

- ↳ These associations also benefit the through shippers
 - They help 2 better utilize their equipment.

④ Intermodal Marketing Companies (IMCs)

- IMCs are comp¹) that act as intermediaries between intermodal rail road comp^(a)

shippers.

- ⑤ They typically purchase large blocks of flatcars for piggyback service
 - Find shippers \approx fit containers that
 - motor carriers \approx unloads 2 load type trailers.
- Essentially base on ~~work~~ brokers
 - for the rail industry.

