

SUPPLY CHAIN MANAGEMENT

INVENTORY
ORGANIZATION
DESIGN AND
DEVELOPMENT

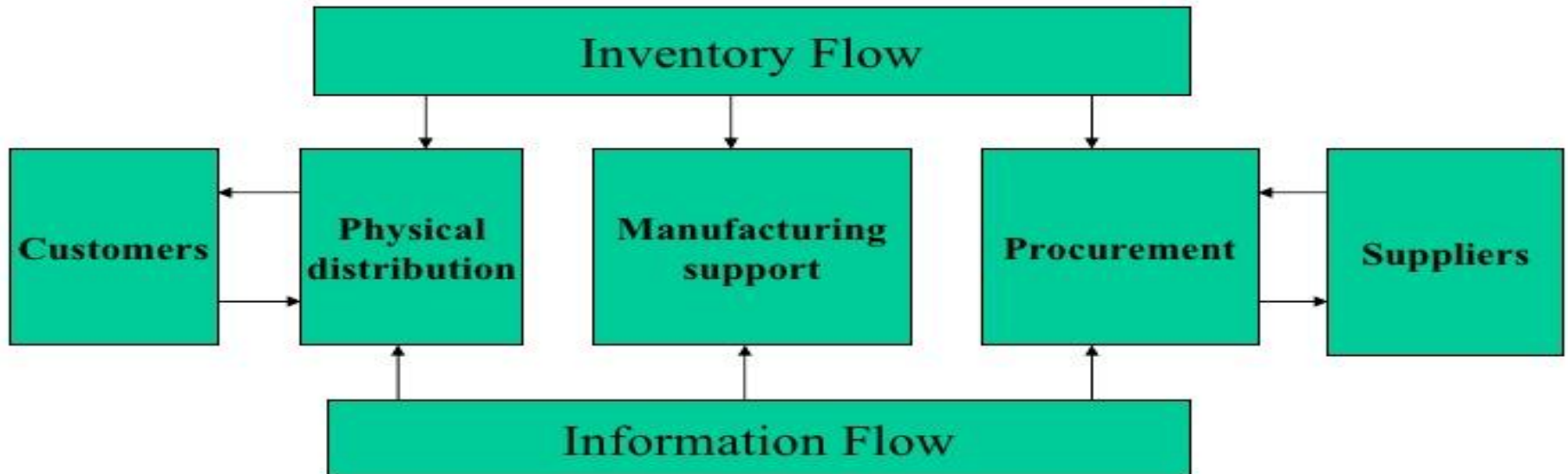


DEDICATED FORECASTING ORGANIZATION

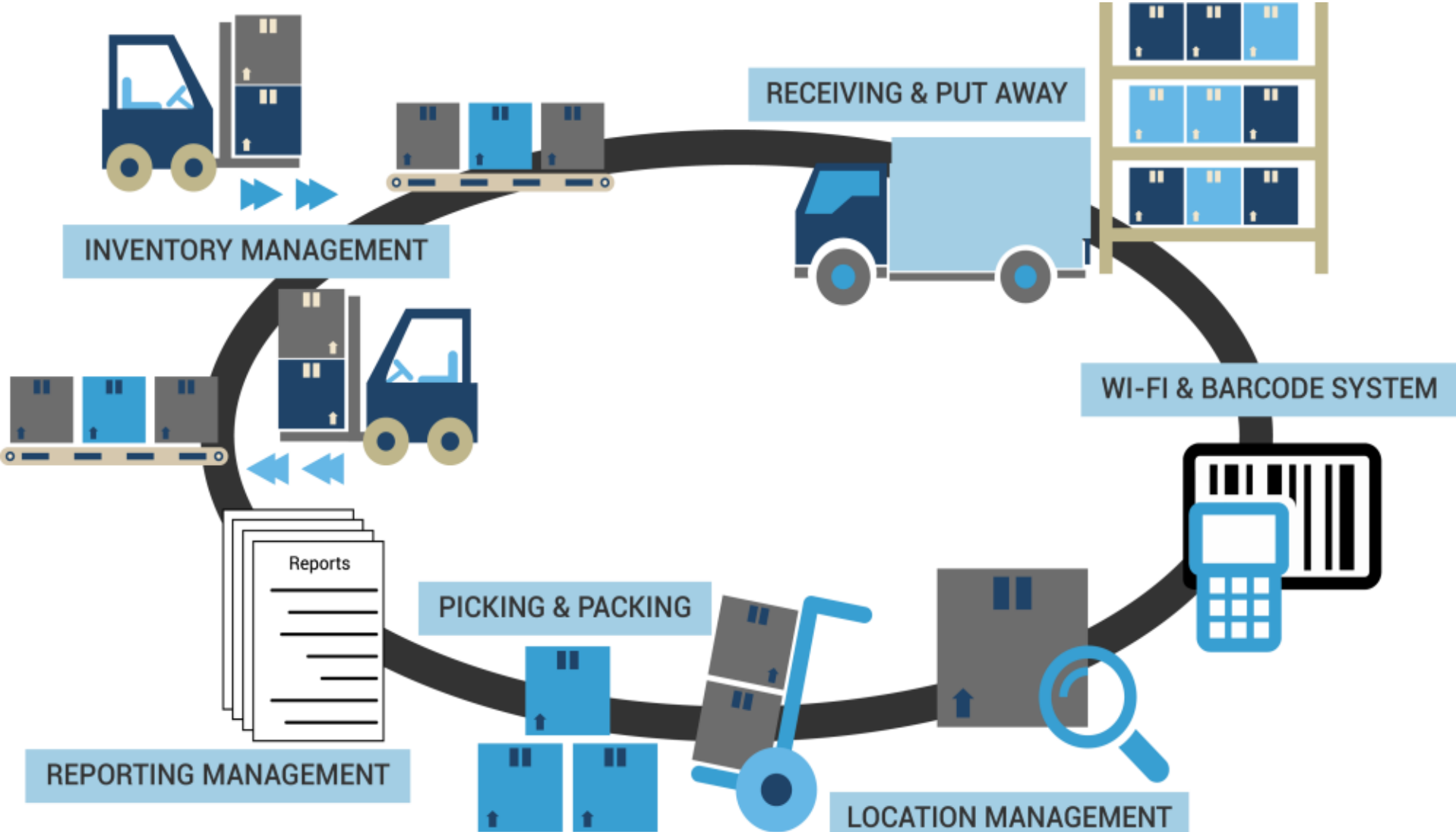


INTEGRATION WITH ALL OTHER LOGISTICS ACTIVITIES

Integrated Logistics



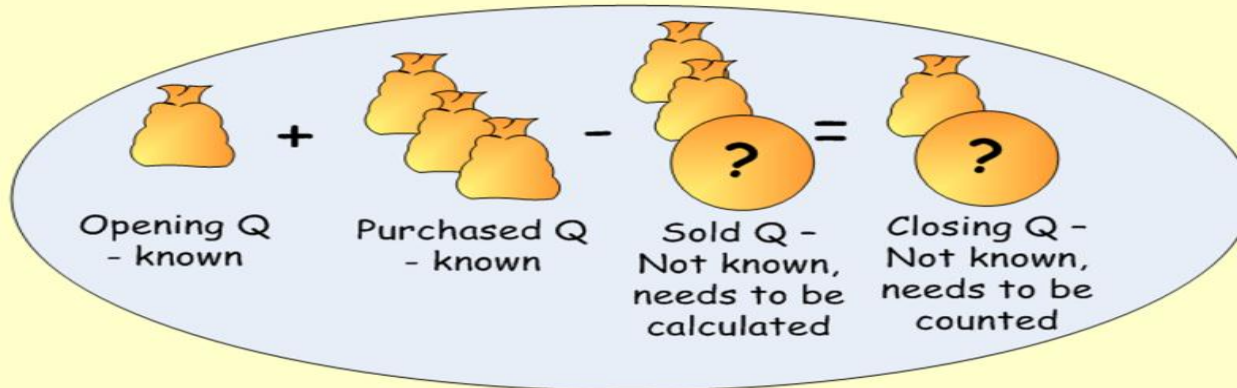
INVENTORY MANAGEMENT SYSTEM



Periodic Inventory System

Periodic

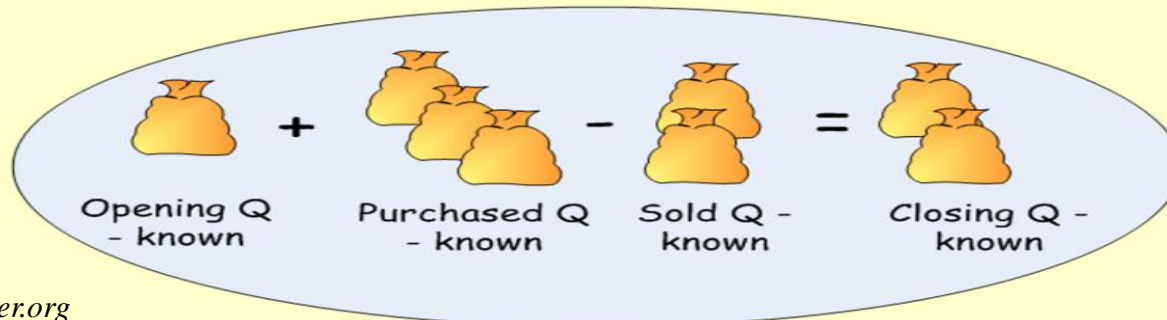
- Inventory quantities are updated at the end of the period taking physical inventory count
- We do not track exactly how many items were sold
- We do not know how many items are left until we count closing inventory



Perpetual Inventory System

Perpetual

- Inventory quantities are updated after each transaction
- We know exactly how many items were sold
- We know exactly how many items are left



OBJECTIVES AND TASKS

Inventory management system is used for a variety of purposes, including:

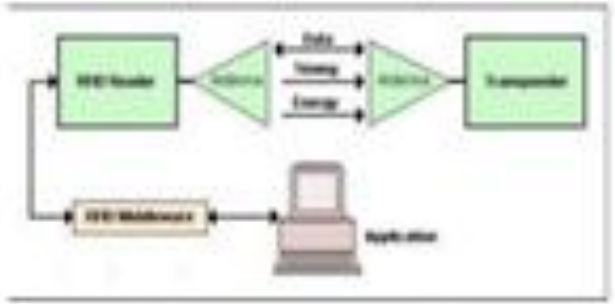
- 1. Maintaining a balance between too much and too little inventory.**
- 2. Tracking inventory as it is transported between locations.**
- 3. Receiving items into a warehouse or other location.**
- 4. Picking, packing and shipping items from a warehouse.**
- 5. Keeping track of product sales and inventory levels.**
- 6. Cutting down on product obsolescence and spoilage.**



Asset Tracking



The Basics of RFID (Component)



- RFID Reader
- RFID Antenna
- RFID Tag

order management system



PRINCIPLES OF INVENTORY MANAGEMENT SYSTEMS



DEMAND FORECASTING

Methods of Demand Forecasting

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graph TD; A[Methods of Demand Forecasting] --> B[Survey Methods]; A --> C[Statistical Methods]; B --> D[Consumer Survey]; B --> E[Opinion Poll Methods]; C --> F[Trend Projection]; C --> G[Barometric Methods]; C --> H[Econometric Methods];
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Survey Methods

Consumer Survey

Opinion Poll Methods

Statistical Methods

Trend Projection

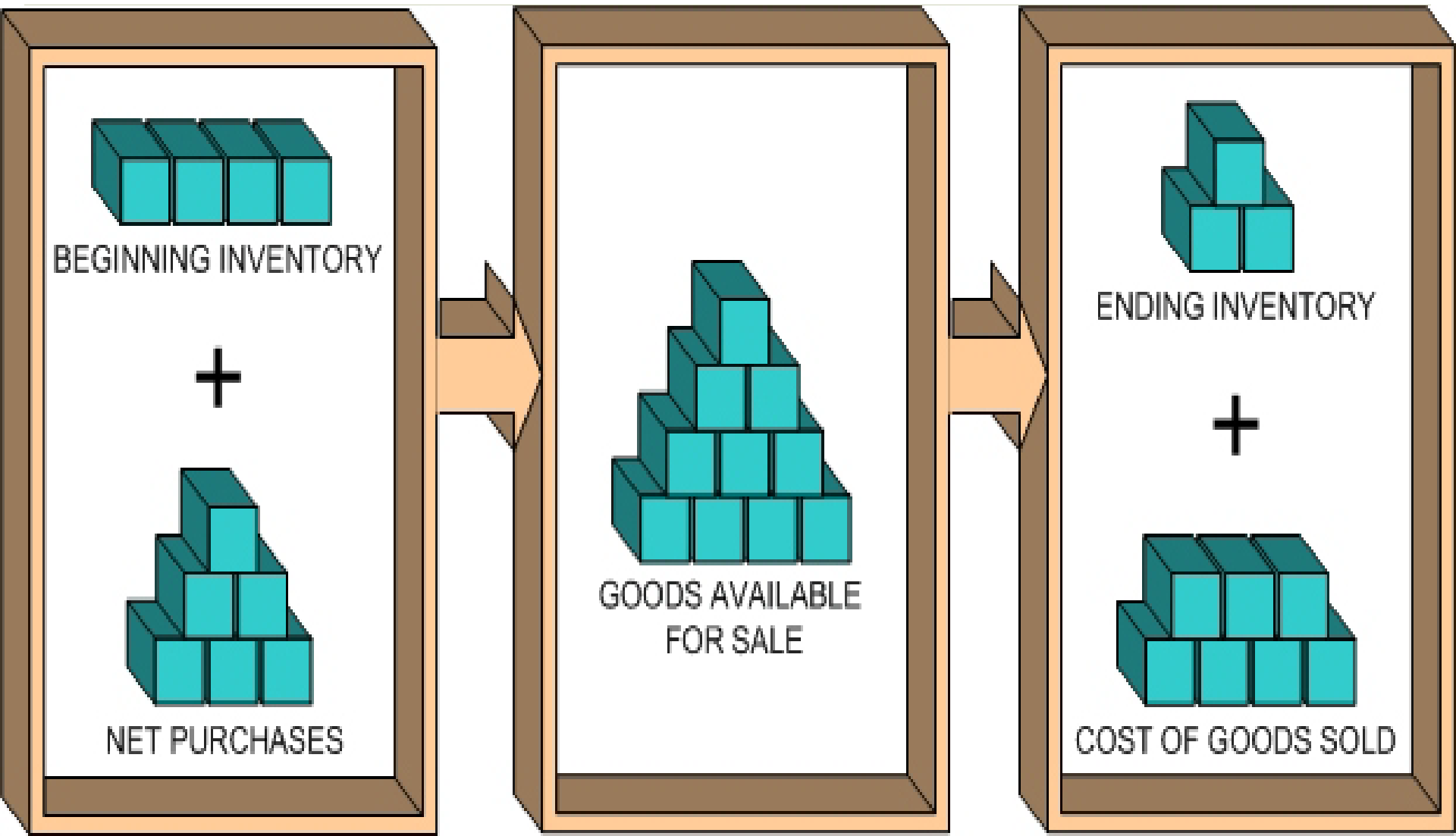
Barometric Methods

Econometric Methods

WAREHOUSE FLOW



INVENTORY TURNS/STOCK ROTATION





Stock
Management

Inventory
Reportst

Cycle Count
Management

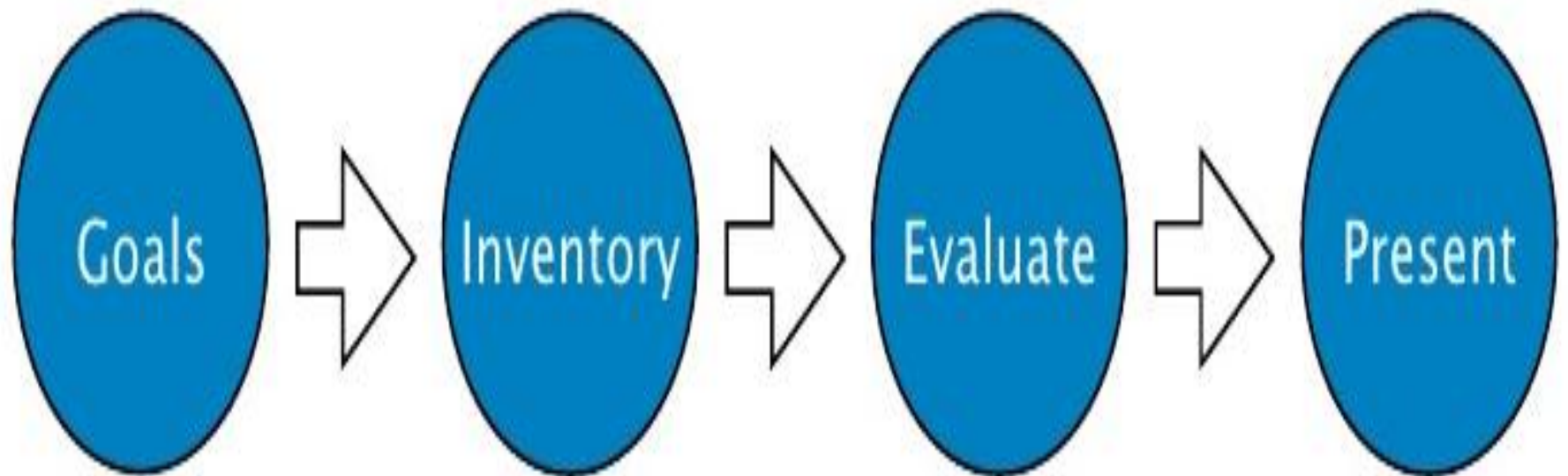
Tech Integra
Inventory

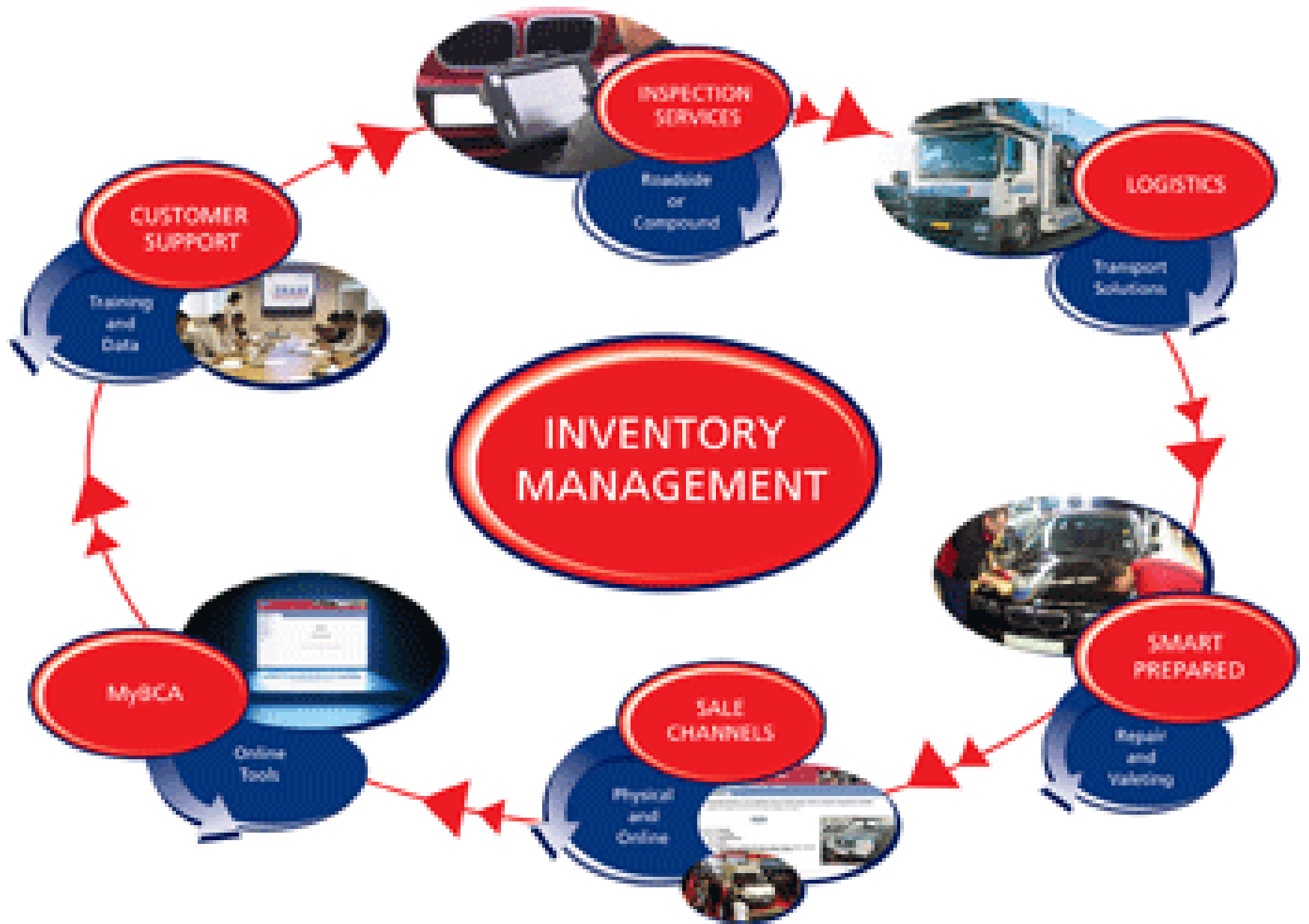
Item Master
Management

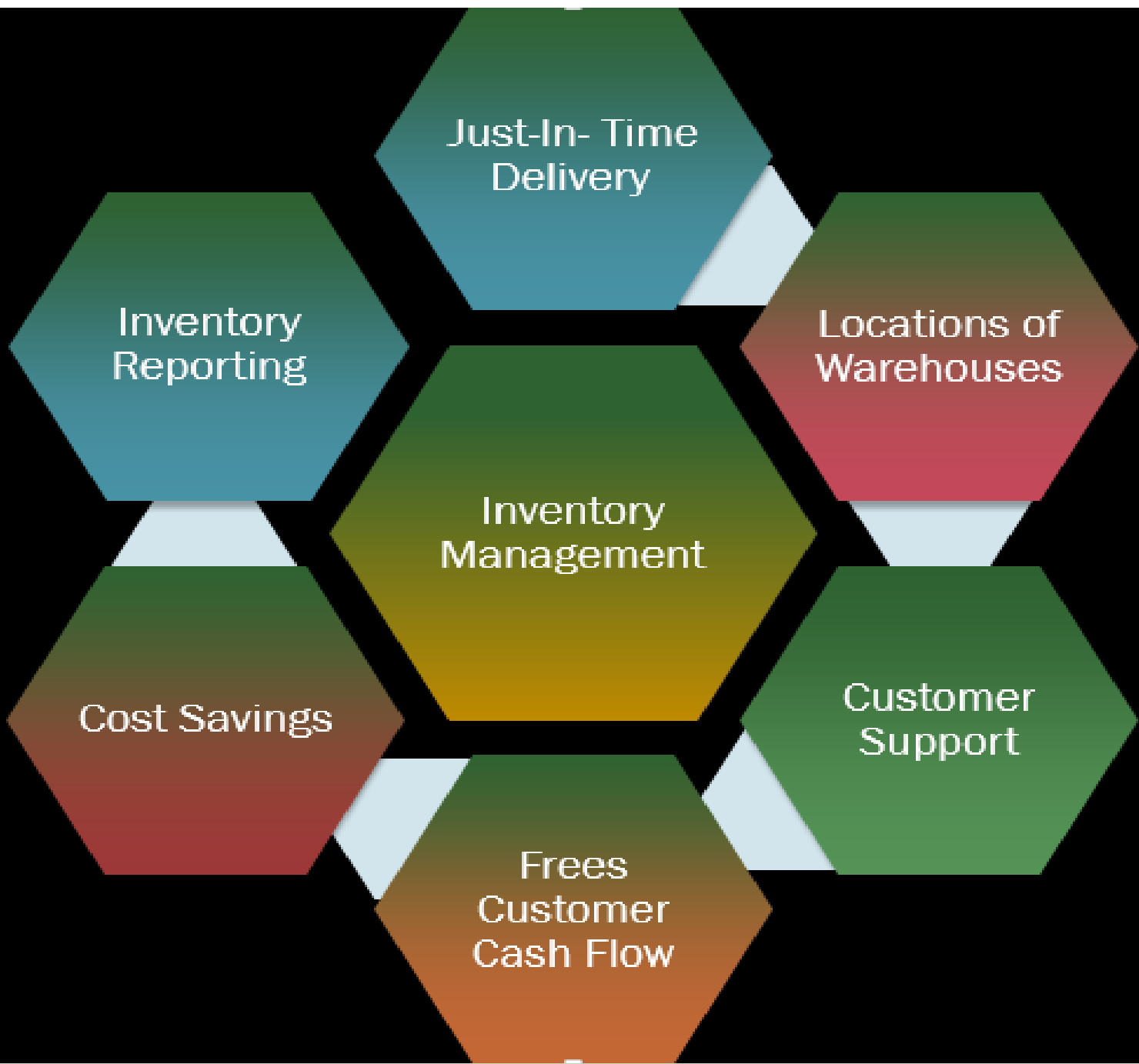
Checklist
Management

Stock Out
Management

Content audit process







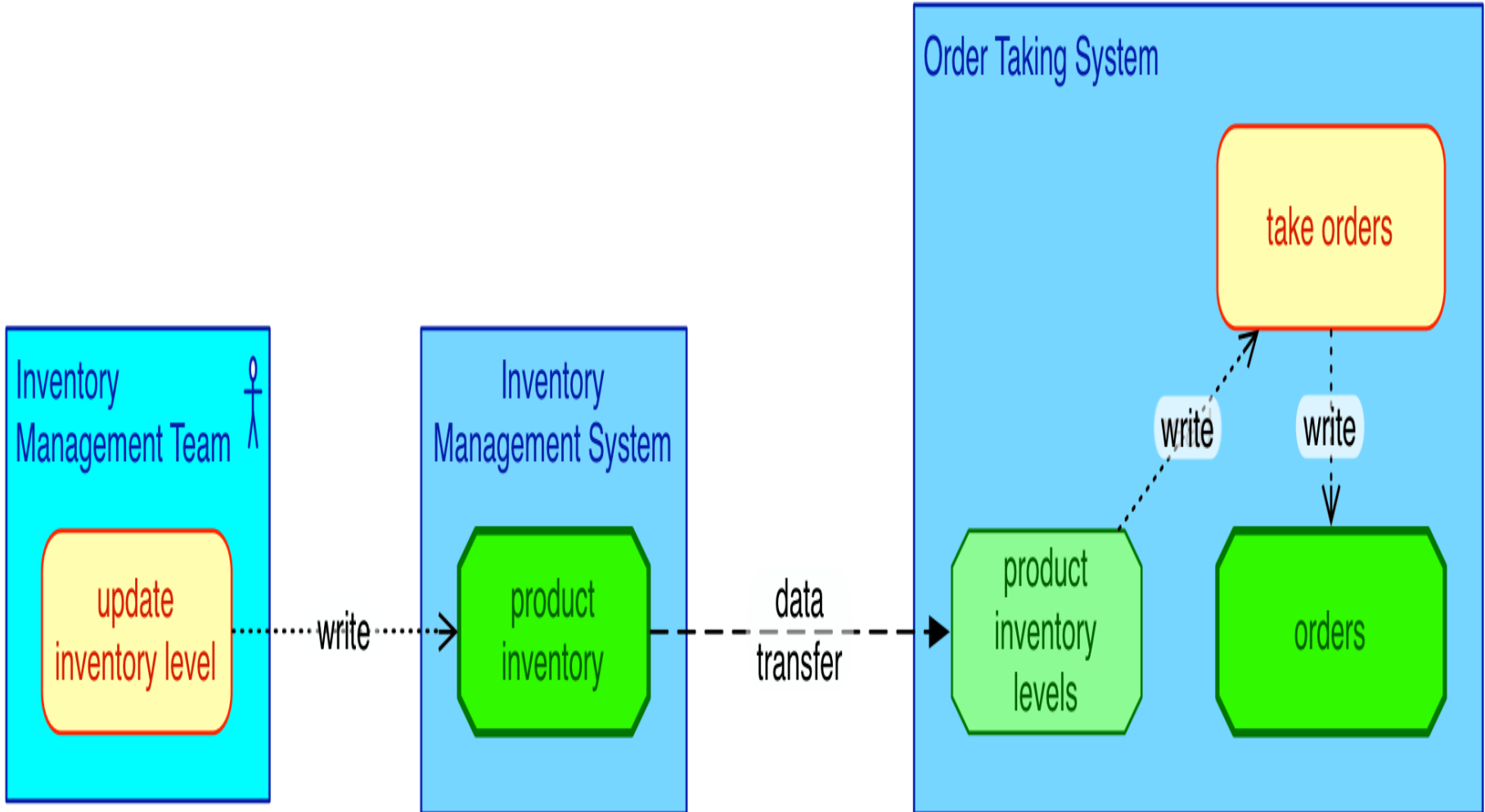
INCREASED EFFICIENCY



WAREHOUSE ORGANIZATION



UPDATED DATA



DATA SECURITY



DISADVANTAGES OF INVENTORY MANAGEMENT SYSTEM



Input → **Wait for inspection** **Wait to be moved** **Move time** **Wait in queue for operator** **Setup time** **Run time** → **Output**



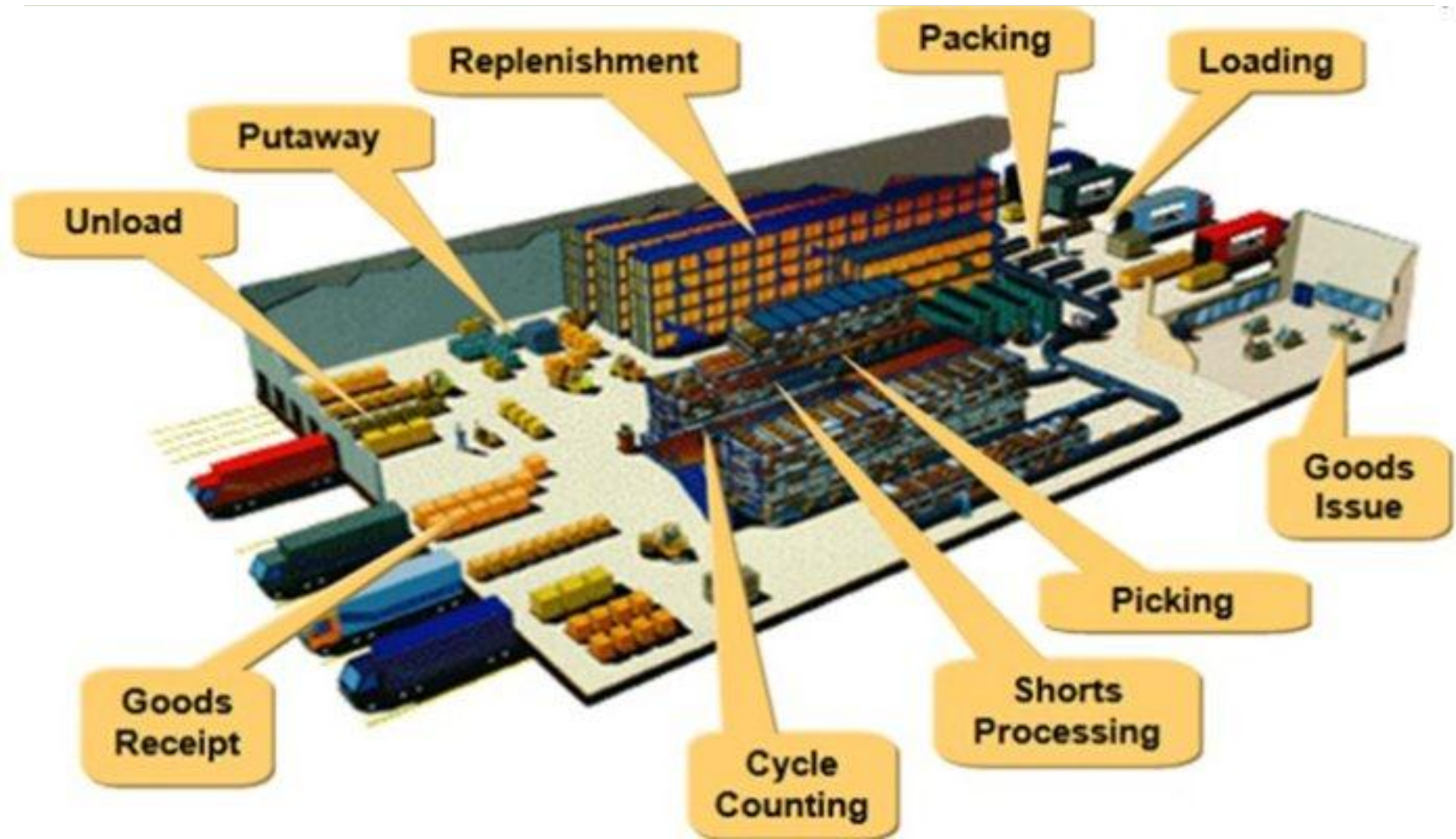
The main aspects of Disadvantages

1. Cost
2. Complexity
3. Risk of fraud
4. Accuracy Issues





WAREHOUSE MANAGEMENT SYSTEMS



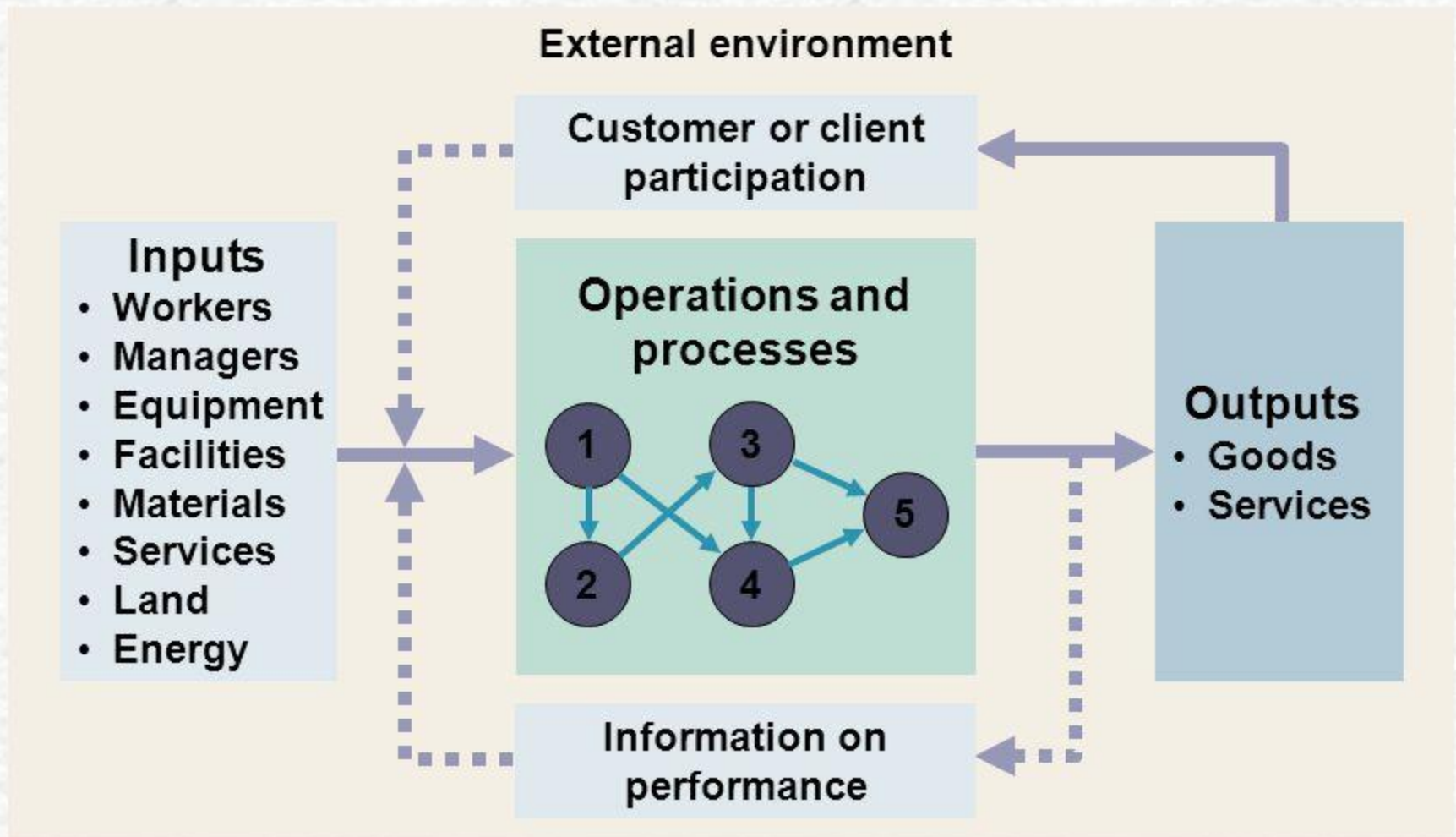
SUPPLY CHAIN MANAGEMENT SYSTEMS



ERP (ENTERPRISE RESOURCE PLANNING) SYSTEMS



The Operations Management System



THE END

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