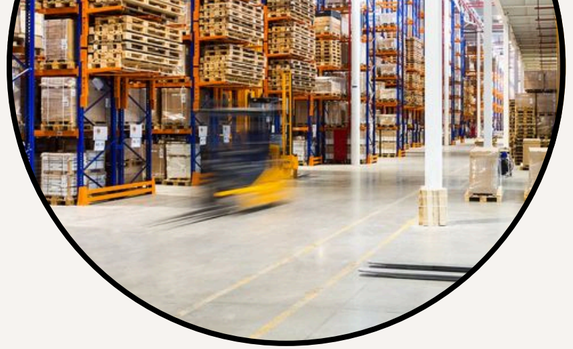
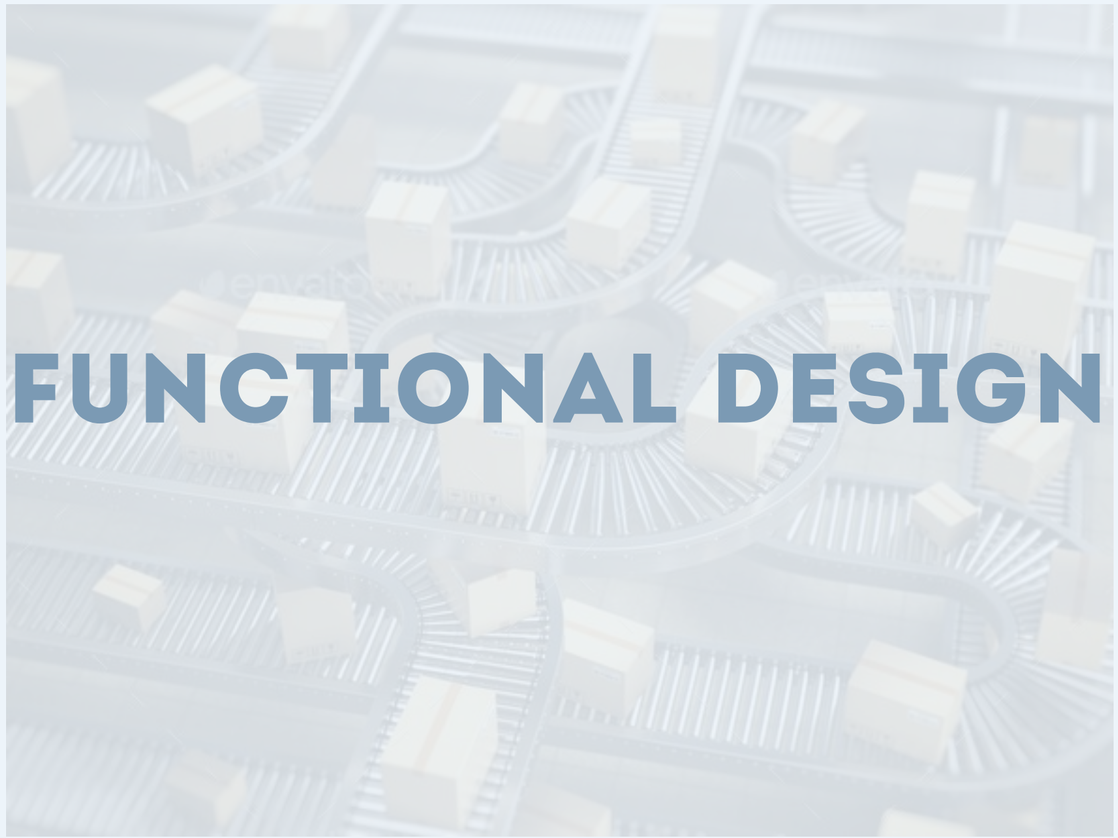


INVENGERS WAREHOUSE

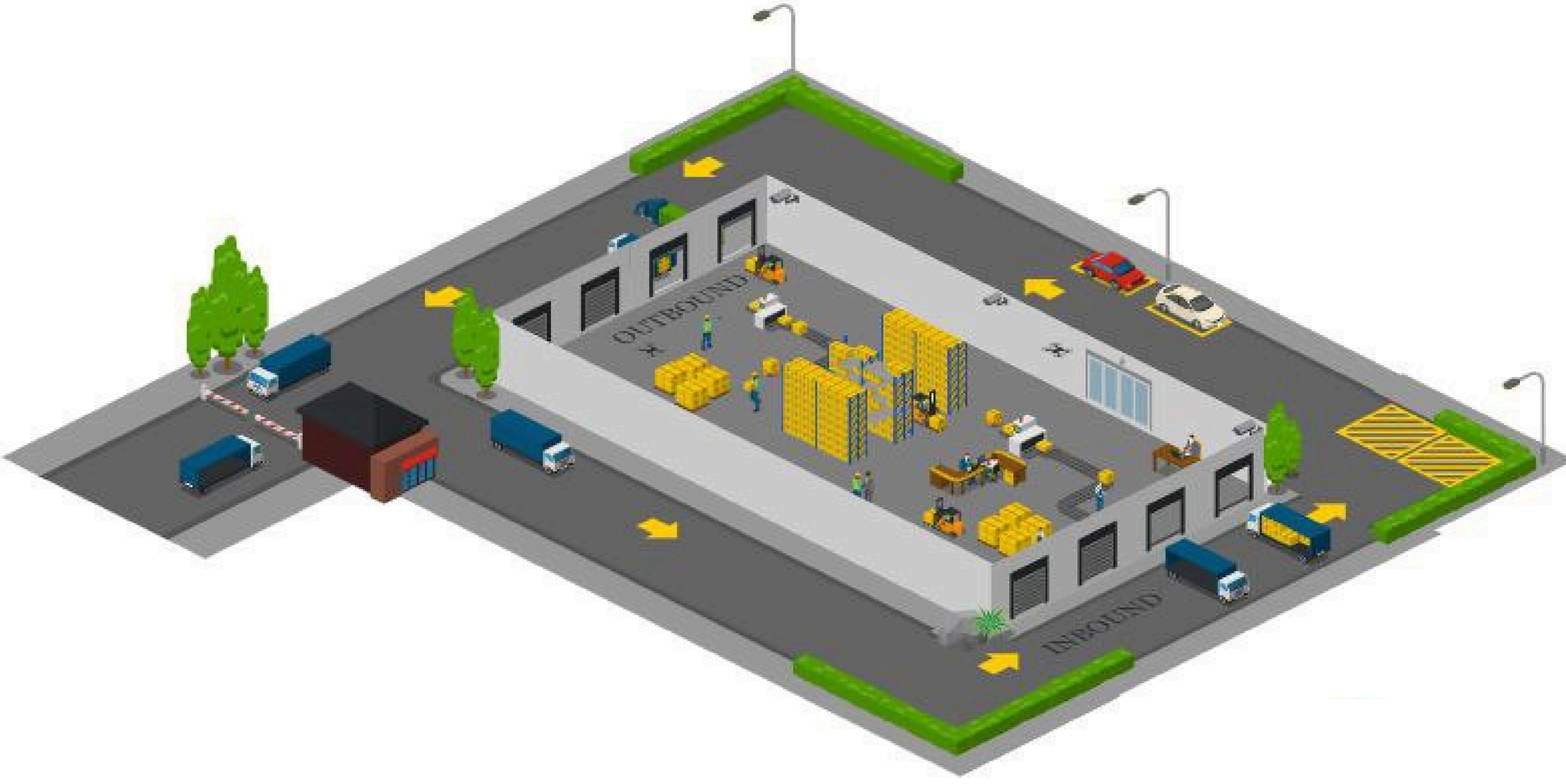
GROUP 12



FUNCTIONAL DESIGN

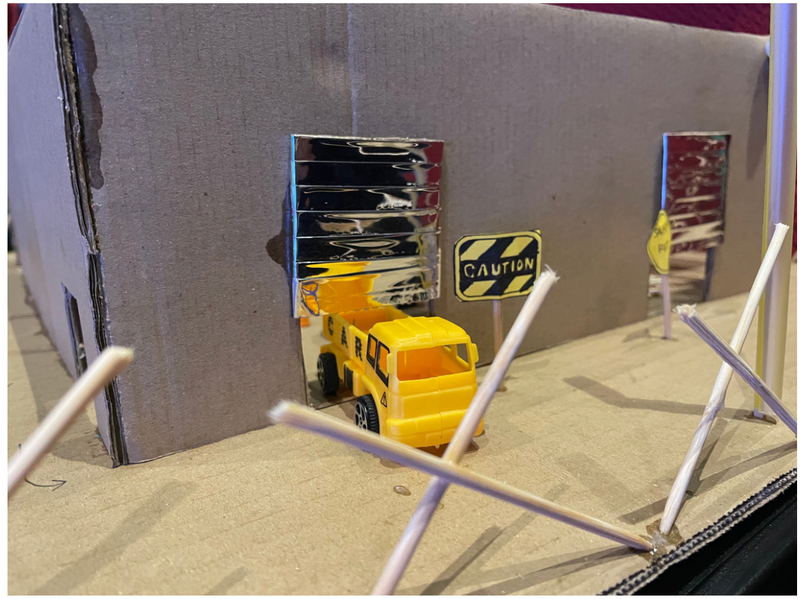
I SHAPED

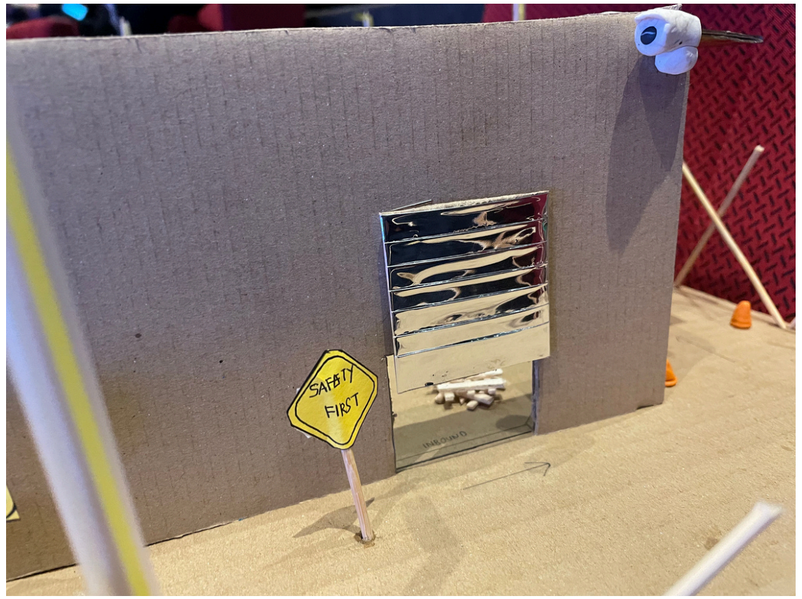
- good flowing in a straight line from the receiving area to the shipping area
- well-suited for warehouse with limited space
- Types of goods any kind of hadeware (raw material)

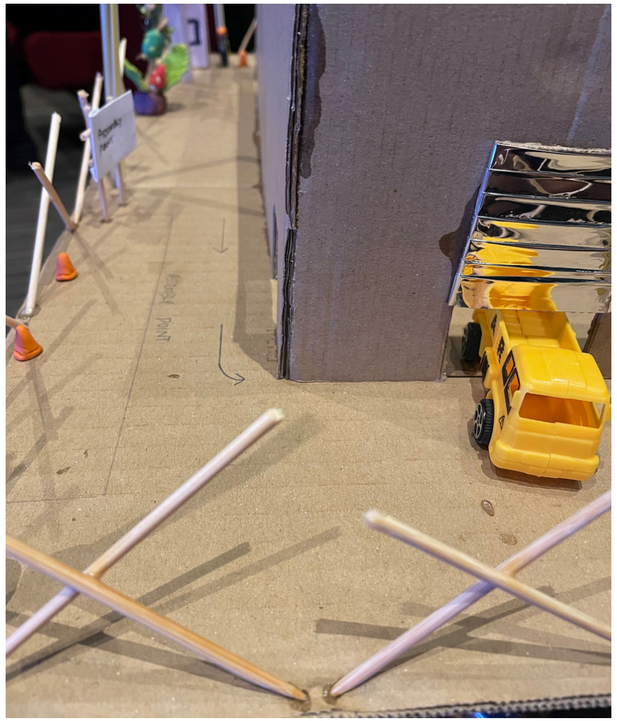

OUTBOUND
INBOUND


SAFETY FIRST
CAUTION


INVENTORS


CAUTION


SAFETY FIRST



SPACE UTILIZATION

Efficient storage zones

Workflow optimization

Automation & technology

SAFETY AND COMPLIANCE

PHYSICAL SECURITY

Real-time surveillance.

CCTV cameras for real-time surveillance.

(e.g., RFID badges, biometric scanners)

Using alarm systems

STANDARD OPERATING

Procedures (SOPs)

Protocols for automated processes such as receiving, storage, and dispatch.

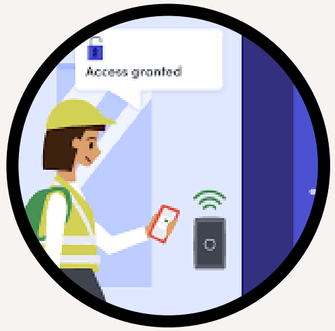
Establishing guidelines for handling robotic malfunctions or system failures.

PERSONNEL TRAINING

Implementing security awareness programs

Training employees on how to operate automated systems safely.

SAFETY AND COMPLIANCE



VISITORS MANAGEMENT

Restricting access

Implementing a visitor registration system

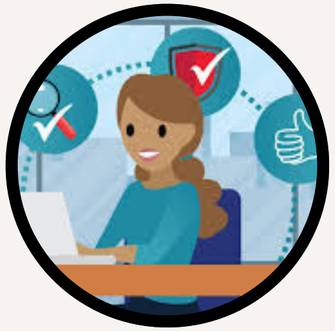
(e.g., badges and escort policies)

IT SECURITY

Protecting WMS from cyber threats

Firewalls and encryption to secure data transmissions.

Implementing multi-factor authentication (MFA) for system access.



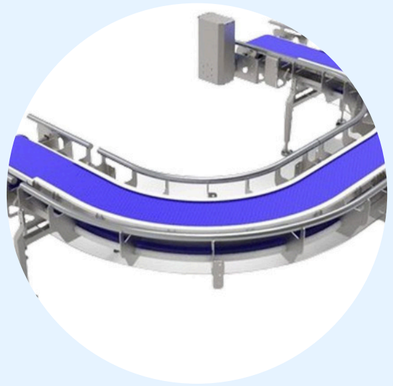
CUSTOMER EVALUTION

Conducting background checks on third-party logistics providers

Verifying the legitimacy of suppliers and customers before transactions.

Monitoring customer feedback and return policies for fraud prevention.

TECHNOLOGY INTEGRATION



Conveyor

First Aid Drone

Automated Guided Vehicles (AGVs)

Automated Storage Retrieval Systems (AS/RS)

SUSTAINABILITY

ENERGY EFFICIENCY

Use of renewable energy sources (solar).

Energy-efficient robotics and conveyor systems.

LED lighting and smart sensors to reduce power consumption.

ECO-FRIENDLY MATERIAL

Use of biodegradable or recyclable materials for packaging.

Sustainable building materials for warehouse construction.

SUSTAINABILITY

REDUCED CARBON FOOTPRINT

Electrification of warehouse vehicles

(e.g., forklifts, AGVs).

Locating warehouses closer to demand centers to reduce transportation needs.


THANK YOU