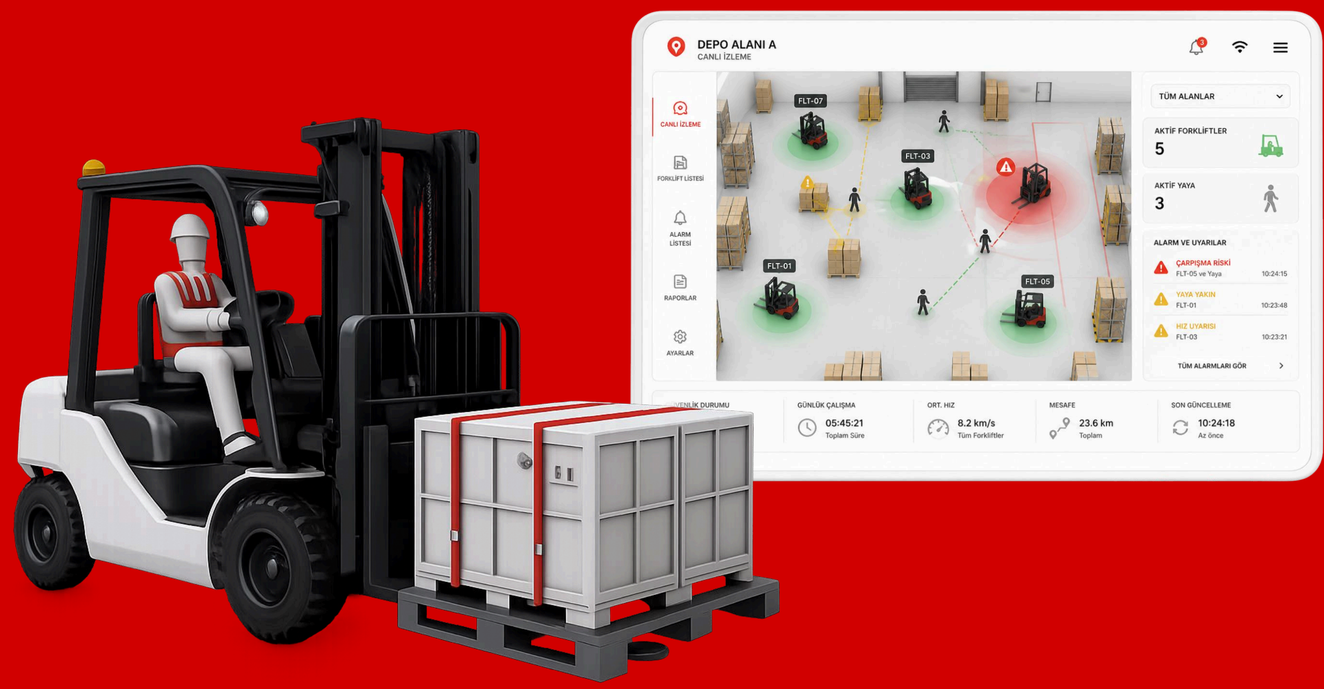
Forklift Monitoring System

Apply Now!



OPERATIONAL CONTEXT

Forklifts in warehouse operations are among the critical equipment to ensure the uninterrupted progress of loading, unloading, carrying, and build-up processes. The intensity of forklift movements within the warehouse, the routes used, waiting times, and operator-based usage habits directly affect operational efficiency.

The usage density of forklifts in warehouse areas, the types of loads they carry, the movement routes within the operation, and the points where they intersect with pedestrian traffic are important in terms of both occupational health and safety and equipment planning processes. For this reason, making the role of forklift usage within the operational flow visible is a critical issue for warehouse management to proceed in a safe, efficient, and sustainable manner.

How Does The Forklift Tracking Process Work?

Forklift usage in warehouse operations is managed based on operational needs and the experience of field teams.

In the current state, the process flow is as stated below:

- Maintenance intervals, reporting, and mileage data on the forklifts are tracked.
- Forklift tonnage selection is made based on field experience.
- The amount of equipment needed for each job type is evaluated manually, and equipment dedication is made according to these evaluations.
- Some forklifts have a blue light warning to reduce collision risk.

TURKISH AIRLINES TERMINAL

How Might We Canvas

Who?

who are the stakeholders that get effected?

Forklift operators, field managers, equipment teams, warehouse personnel, OHS (occupational health and safety) specialists.

What?

what is the problem that needs to be solved?

The positions and movements of forklifts and pedestrians within the site cannot be monitored in real time, and these movements cannot be converted into meaningful data to support operational decisions.

Why?

why is this problem worth solving?

Improving occupational health and safety standards, reducing risks and costs associated with workplace accidents, and increasing efficiency by optimizing equipment usage according to actual operational needs are important.

How?

how can this problem be eliminated?

By collecting real-time location data through sensors/tags placed on vehicles, with systems that instantly prevent speed violations, bottleneck areas, unauthorized zone entries, and collision risks, and with recommendation systems that will ensure efficiency.

Challenge:

How might we improve occupational safety, support equipment efficiency, and make route and capacity planning data-driven through real-time monitoring of forklift and pedestrian movements in warehouse operations?