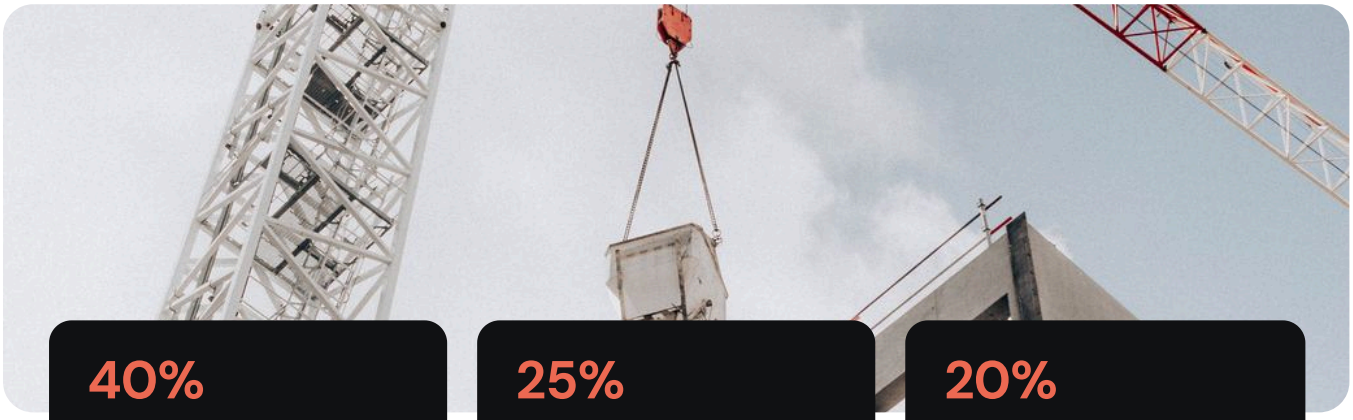
Construction · Middle East

A port construction firm improved asset tracking efficiency by 40%

A Middle East construction company that builds and renovates ports put GPS trackers on heavy machinery, scheduled equipment maintenance, and tracked materials, tools and purchasing in one system.



40% improvement in asset tracking efficiency

25% less equipment-related downtime

20% fewer project delays

AT A GLANCE

INDUSTRY
Construction · ports

REGION
Middle East

ASSETS
Heavy machinery, tools, vehicles

ROLLOUT
Phased over six months

FEATURES USED
Connected · Maintenance · Stores · Suppliers

01 The client

The client is a major construction company in the Middle East that builds and renovates ports. Its projects depend on heavy machinery, vehicles and tools spread across very large sites.

Port work is complex and runs to tight timelines, so the company needed to know exactly where its equipment was, keep it serviced, and have materials ready when crews needed them.

02 The challenge

Across vast port sites, the company found it hard to see where machines were and how hard they were working, and gaps in maintenance, stock and purchasing were holding projects back.

- Location and usage of heavy machinery were hard to track across large sites.
- Maintenance was inconsistent, causing unexpected equipment downtime.
- Construction materials and tools were not managed well, delaying work.
- Buying new equipment and materials took too long.

03 What they set up in Asset Infinity

The company rolled out Asset Infinity for tracking, maintenance, stores and purchasing, starting with its most critical machines.

Connected

GPS trackers on heavy machinery

GPS trackers report each machine's location, odometer and engine hours, so managers know where equipment is and how much it is used.

Maintenance

Preventive plans with reminders

Every heavy machine has a maintenance plan by date or engine hours, and reminders go out before servicing is due, so machines stay in working order.

Stores

Materials and tools

Construction materials and tools are tracked by storeroom and site, with stock levels and reorder advice to prevent shortages and misplaced tools.

Suppliers

Purchasing for equipment and materials

Purchase requests, approvals and orders for new equipment and materials run in one flow, so resources arrive in time and within budget.

04 How it works day to day

Here is how equipment, materials and purchasing are managed on the port sites now.

SYSTEM

Updates machine location and hours

GPS trackers on heavy machinery send location, odometer and engine hours, which update each machine's record and its meter-based maintenance plan.

SITE MANAGER

Checks where equipment is

The site manager sees which machines are on which part of the site and how much they have run, and moves idle ones to where they are needed.

SYSTEM

Raises maintenance when due

When a machine reaches its service date or engine-hour limit, a work order is created and the maintenance team is reminded.

TECHNICIAN

Services the machine

The technician completes the checklist in the mobile app, records parts used and closes the work order, building the machine's service history.

STOREKEEPER

Issues materials and tools

Materials and tools are issued to the site or job. Reorder advice shows what is running low before it holds up work.

PROCUREMENT TEAM

Orders what is needed

Purchase requests for new equipment and materials are approved and turned into purchase orders, then received against the order on arrival.

PROJECT MANAGER

Reviews the dashboard

Dashboards show equipment availability, open maintenance, stock levels and pending orders across the company's sites.

05 Before and after

	BEFORE	WITH ASSET INFINITY
Machine location	Hard to track across vast sites	GPS trackers on heavy machinery
Usage data	Not reliably recorded	Odometer and engine hours from the trackers
Maintenance	Inconsistent, with unexpected downtime	Scheduled plans and reminders for all heavy equipment
Materials and tools	Shortages and misplaced tools delayed work	Tracked stock with reorder advice
Purchasing	Slow to acquire new equipment and materials	One flow from request to order to receipt

06 How it rolled out

1

Critical assets first. The rollout was phased over six months, starting with the machines that mattered most to project timelines.

2

Training by role. Site managers and equipment operators had training tailored to the work they do.

3

Project software connected. Asset Infinity was connected to the company's existing project management software through the API.

07 The results

- More accurate inventory of construction materials and tools.
- Faster procurement, helping projects keep to timelines and budgets.
- Current location and usage data for heavy machinery on every site.
- Maintenance carried out on schedule for all heavy equipment.

08 Why it worked

Started where it mattered

Beginning with the most critical machines showed results early and built confidence before the wider rollout.

Usage drives maintenance

Engine hours from GPS trackers feed straight into maintenance plans, so servicing follows how hard each machine actually works.

One system for the site

Equipment, materials and purchasing share one set of records, so a shortage or breakdown is visible to everyone who can fix it.

09 Looking ahead

By tracking machines with GPS, servicing them on plan and managing materials and purchasing in the same system, the port builder improved asset tracking efficiency by 40% and cut equipment-related downtime by 25%.

Better stock accuracy meant fewer projects waiting on materials, with project delays down 20%, an important gain in the demanding conditions of port construction.

See it on your own assets

A 30-minute demo, set up for a construction or infrastructure contractor.

The client's name is withheld for confidentiality. Results are as reported by the client.

Book a demo

Start a 14-day free trial