آفاق الرصد
AFAQ AL RASD

CONSTRUCTION & EQUIPMENT

Construction fleets & heavy equipment

Know where every machine is, how many hours it works and how much fuel it uses, across all your projects.



English edition · 2026

OVERVIEW

Every machine, every site, one view

Construction and equipment teams manage machines spread across projects, moving between sites and running long hours. Afaq selects the right device for each machine and brings location, engine hours, fuel and movement events into Rasd Fleet, so project and equipment managers work from the same facts.

What the solution delivers

- Location of every machine and vehicle
- Moves between project sites
- Engine hours and operating activity
- Fuel level and consumption
- Geofences around sites and yards
- Tamper and power-cut alerts
- Battery trackers for unpowered assets
- Concrete mixer drum and discharge monitoring

The challenges we address

Equipment spread out

Machines on many sites, hard to locate quickly.

Moves between projects

No record of when and where equipment moved.

Operating time

Engine hours estimated, not measured.

Fuel use

No clear view of fuel per machine.

Unauthorised use

Movement outside working areas or hours.

Utilisation

Idle machines while others are rented in.



HOW IT WORKS

From the machine to better allocation

1

Assess

Machine types, power sources and data needed.

2

Select

Trackers, sensors or battery devices per asset.

3

Install

Fit and configure devices on each machine.

4

Review

Locations, hours and fuel in Rasd Fleet.



Key capabilities

Location & history

Latest position and movement history of each machine.

Engine hours

From a machine signal, device feature or sensor.

Fuel monitoring

CAN data or a calibrated tank sensor.

Site geofences

Entry and exit events per project and yard.

Security alerts

Tamper, power cut and movement outside hours.

Heavy transport planner

Match loads to trucks and trailers that can carry them.

SPECIALISED MONITORING

Built for site operations

Concrete mixers

Drum data added to tracking for every delivery.

- Drum rotation speed and direction
- Discharge location vs the project site
- Travel and site waiting times
- Wireless drum sensor, mounted externally

Equipment types

The right device for each machine.

- Excavators, loaders and bulldozers
- Cranes and lifting equipment
- Generators and stationary equipment
- Trailers and rental equipment



Rasd Fleet heavy-transport planner: a generator load checked against available trucks and trailers.

> Engine hours and fuel need a compatible data source. Geofences and alerts support supervision but do not guarantee theft prevention or recovery.

ON RASD FLEET

From data to action

Site supervisors get alerts when equipment leaves an approved area, and managers can ask the AI assistant where a machine is or how many hours it worked this week.

1

Alert on the platform

The event appears on the map and in the log with vehicle, time and location.

2

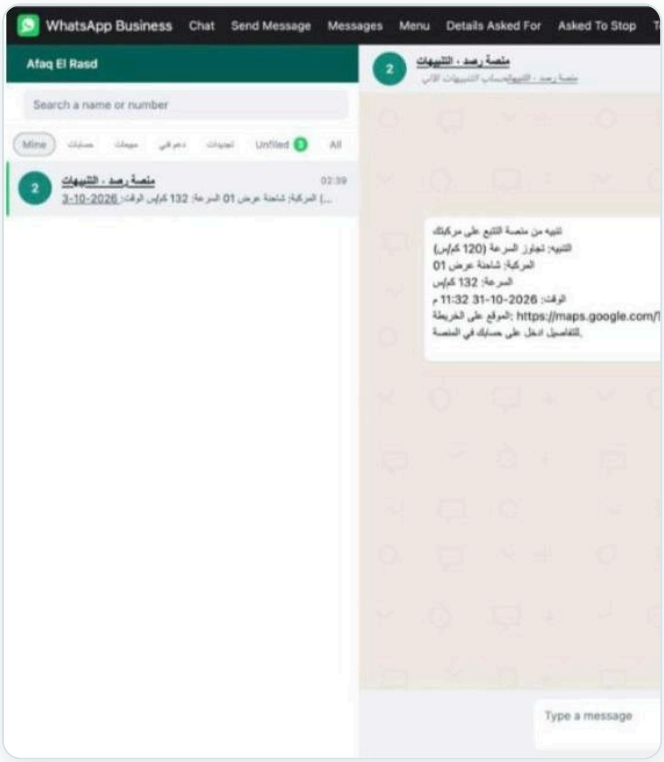
WhatsApp to the supervisor

Alert type, vehicle, value and a map link, on the channel your team already uses.

3

Automated voice call

Critical alerts also ring the supervisor's phone and read the alert aloud.



An alert delivered on WhatsApp Business.



The RASD AI assistant next to the live map: ask in Arabic or English.

Reports you can use

Utilisation

Engine hours and activity per machine.

Site activity

Arrivals, departures and time on site.

Fuel

Consumption and refuels per machine.

WHO IT IS FOR

For contractors and equipment owners

Contractors
Fleets and machines across projects.

Infrastructure projects
Roads, utilities and energy sites.

Equipment rental
Visibility of rented-out assets.

Road construction
Pavers, rollers and support vehicles.

Industrial facilities
Plant vehicles and yard equipment.

Generators
Run hours and fuel at remote sites.

Why Afaq Alrasd Aldhki

- We start from your operation, not from a product list
- We select compatible devices and sensors for every vehicle
- Certified installation, calibration and platform setup
- Alerts and reports configured around your procedures
- Rasd Fleet hosted in Saudi Arabia, in Arabic and English
- Multi-AI: assistant, WhatsApp AI and AI voice agent
- Optional one-way integration with Odoo ERP
- Technical support with clear response targets



Talk to our team

Share your equipment list and project sites, and we will recommend devices and a setup that fits each machine.

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> Available data and functions depend on the vehicle, the installed device and sensors, network coverage and platform configuration. Compatibility is confirmed before implementation. Screenshots are from a demo fleet.