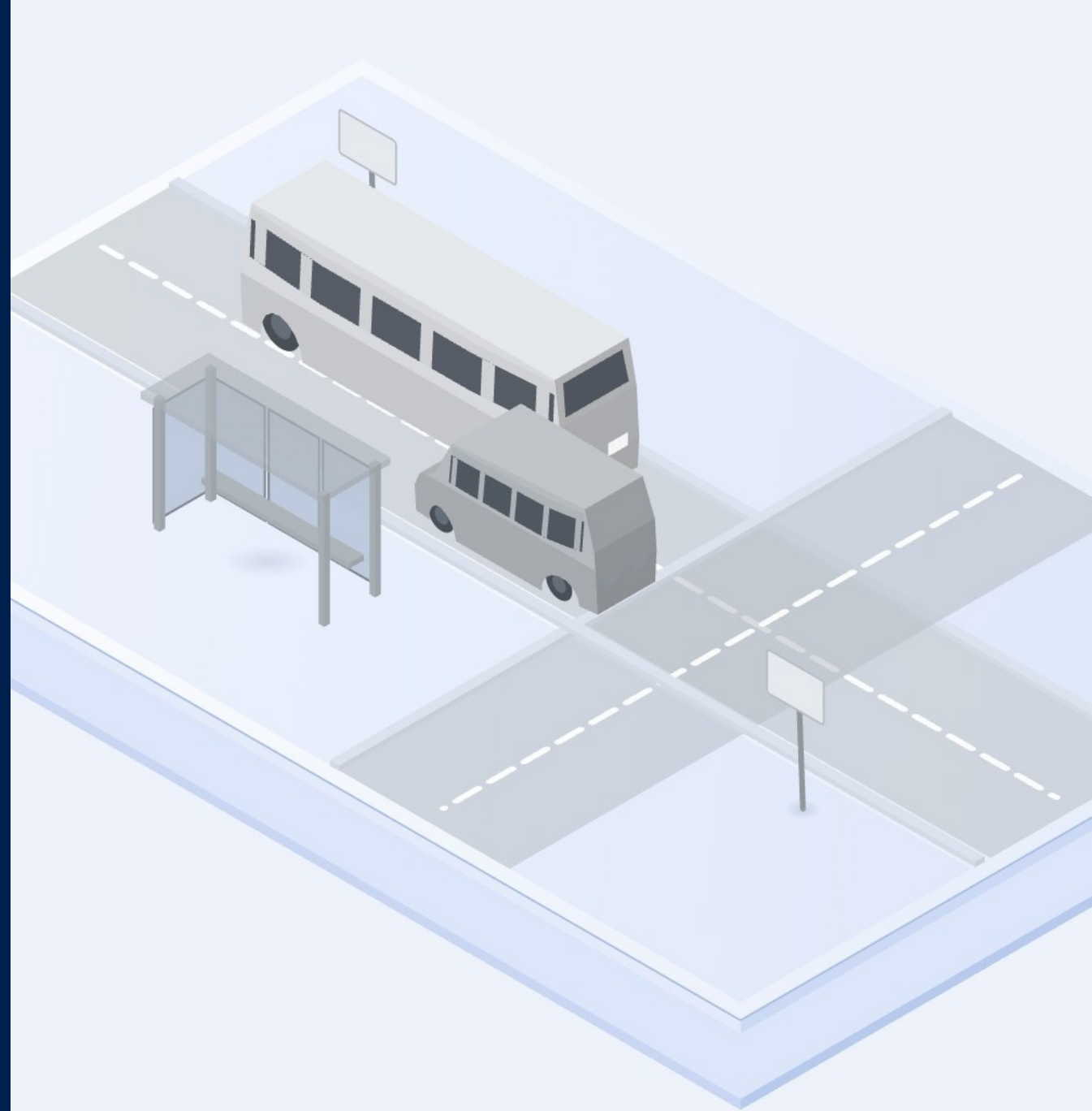


Municipal roads and routes

The route reports its own damage.

Damage found on the runs your fleet already makes.



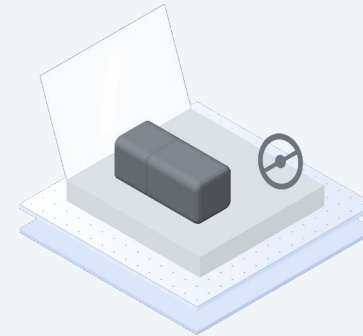
WHAT THIS IS

Pulses.ai is a UAE-born Physical Intelligence company: AI that understands your physical world.

For road authorities: damage waits unreported.

The Operating System for the Physical World

HOW IT WORKS



SEE

Pulses Vision Roam rides your fleet

UNDERSTAND

Road, sign and bus-stop damage, understood

ACT

Synced at the depot, sent to crews

THE PROBLEM

Damage waits for a report.

The fleet drives past it each day.

Found by whoever notices.

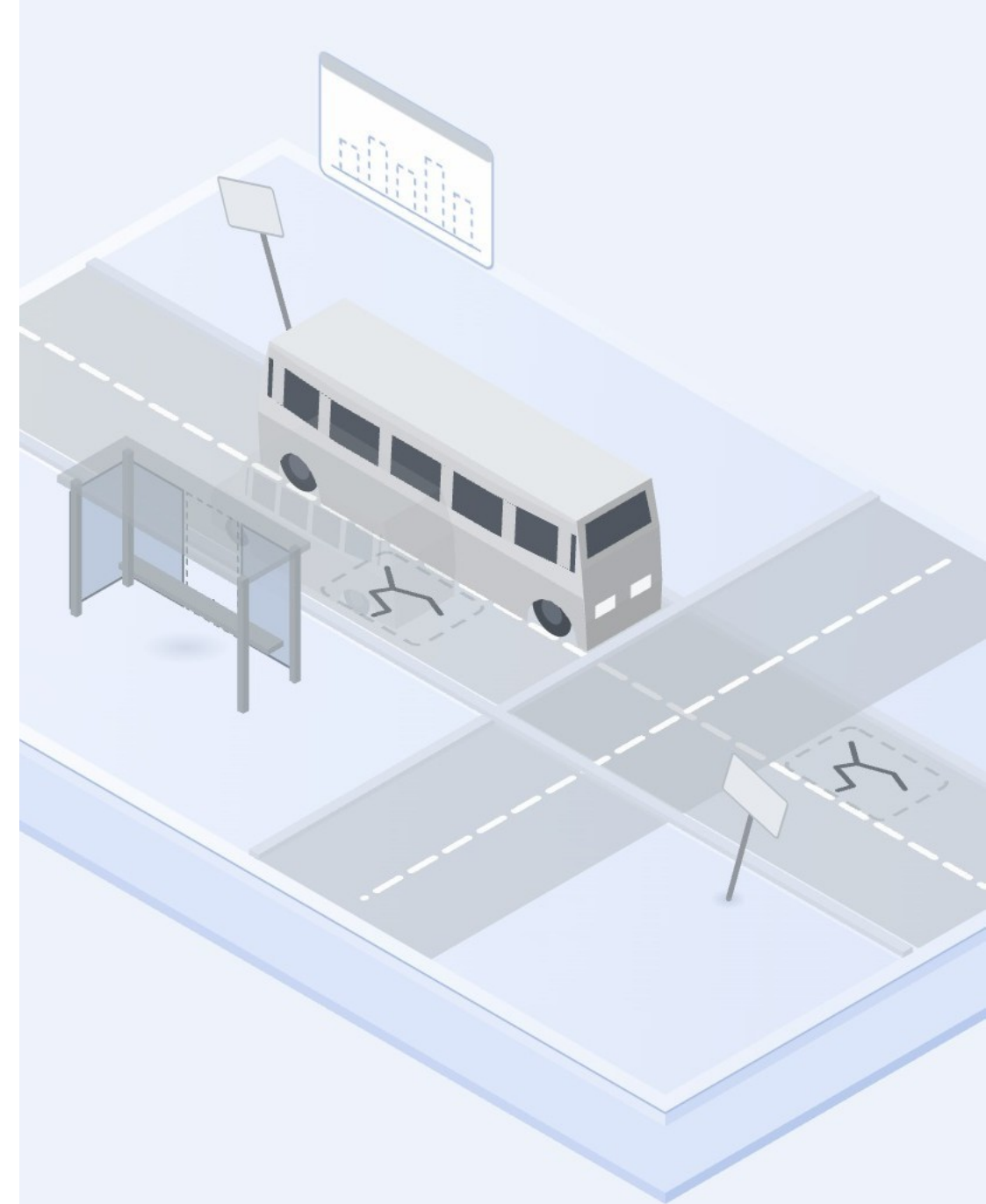
A resident, a passer-by or a scheduled inspection drive.

Scattered along the network.

A sign on a verge, a shelter, one lane of road.

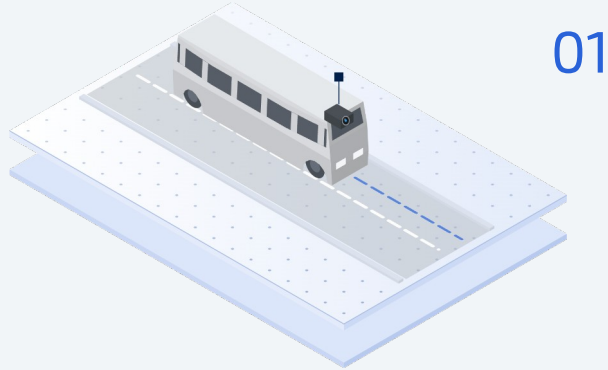
Crews fix what reaches the list.

Damage nobody reports stays off the list.



HOW IT WORKS

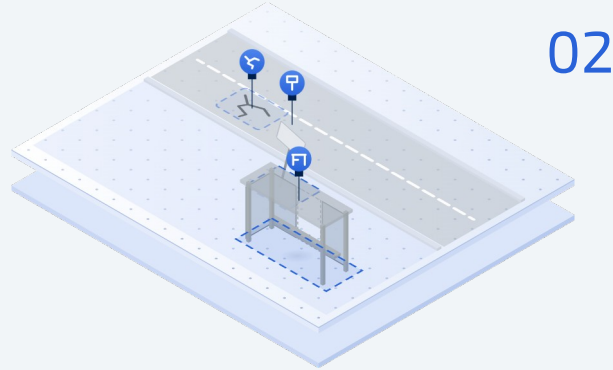
From the dashboard to the crews.



01

On the dashboard

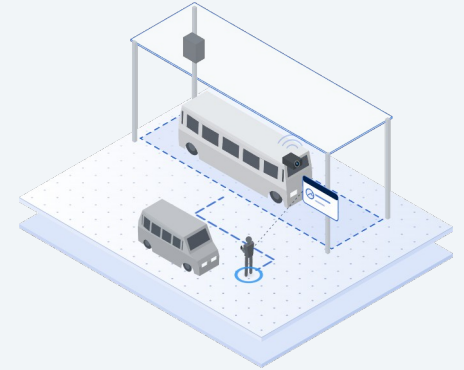
A Pules Vision Roam device on the dashboard understands road, sign and bus-stop damage.



02

Understood on the device

All processing happens on the device; only anonymous metadata leaves.



03

Back at the depot

Findings sync, and the list goes out on WhatsApp, Teams, SMS or email.

WHAT IT READS

What the route tells you.

01

Road, signs and shelters.

Signs, shelters and the road surface sit in one list.

02

One map of the network.

Each run adds to one map of the network, segment by segment.

03

Synced at the depot.

Findings stay on the device and sync at the depot.

04

Sent to your crews.

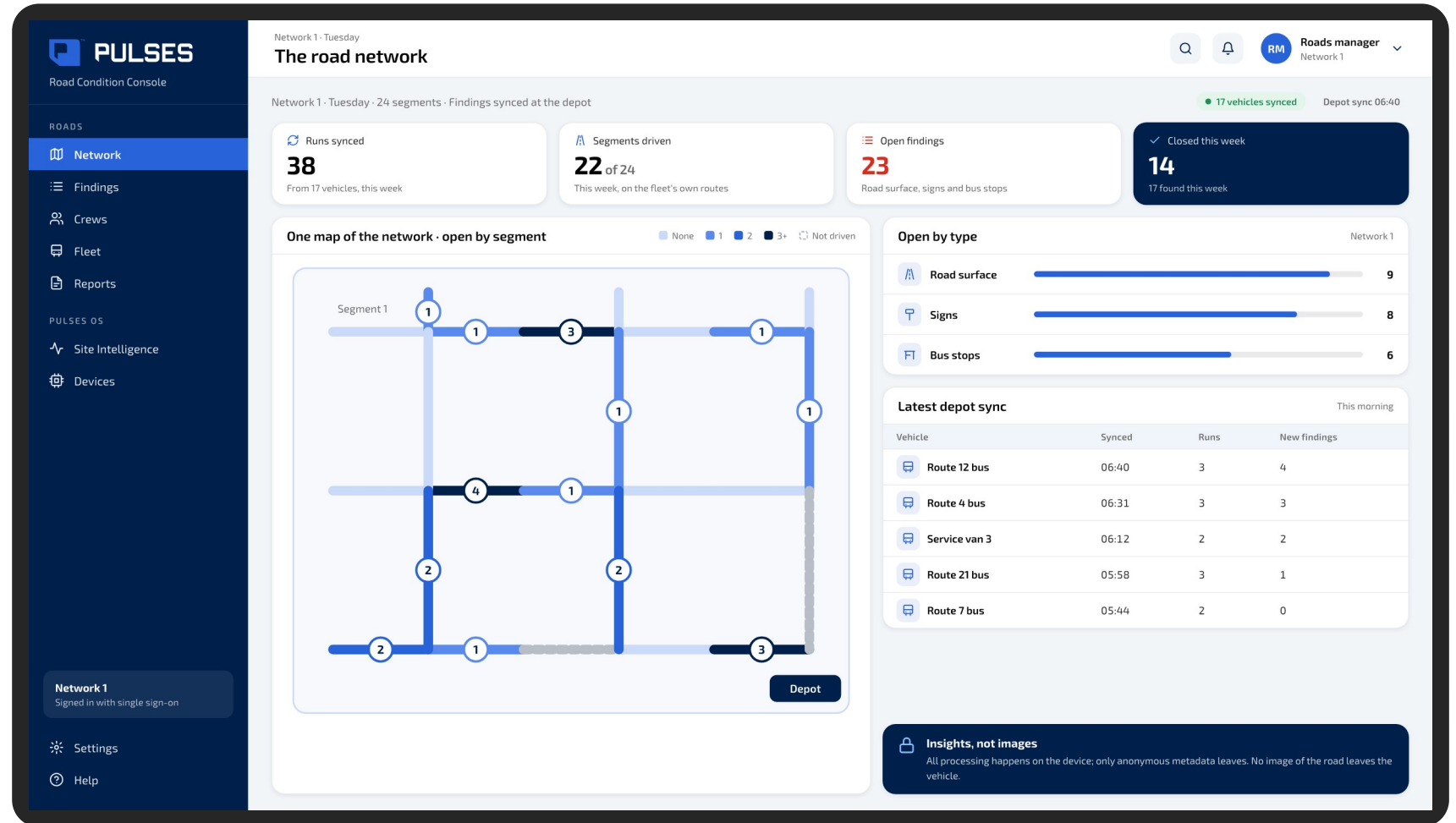
Your crews get the list, on the channels they already answer.

PULSES OS

Network

One map of the network.

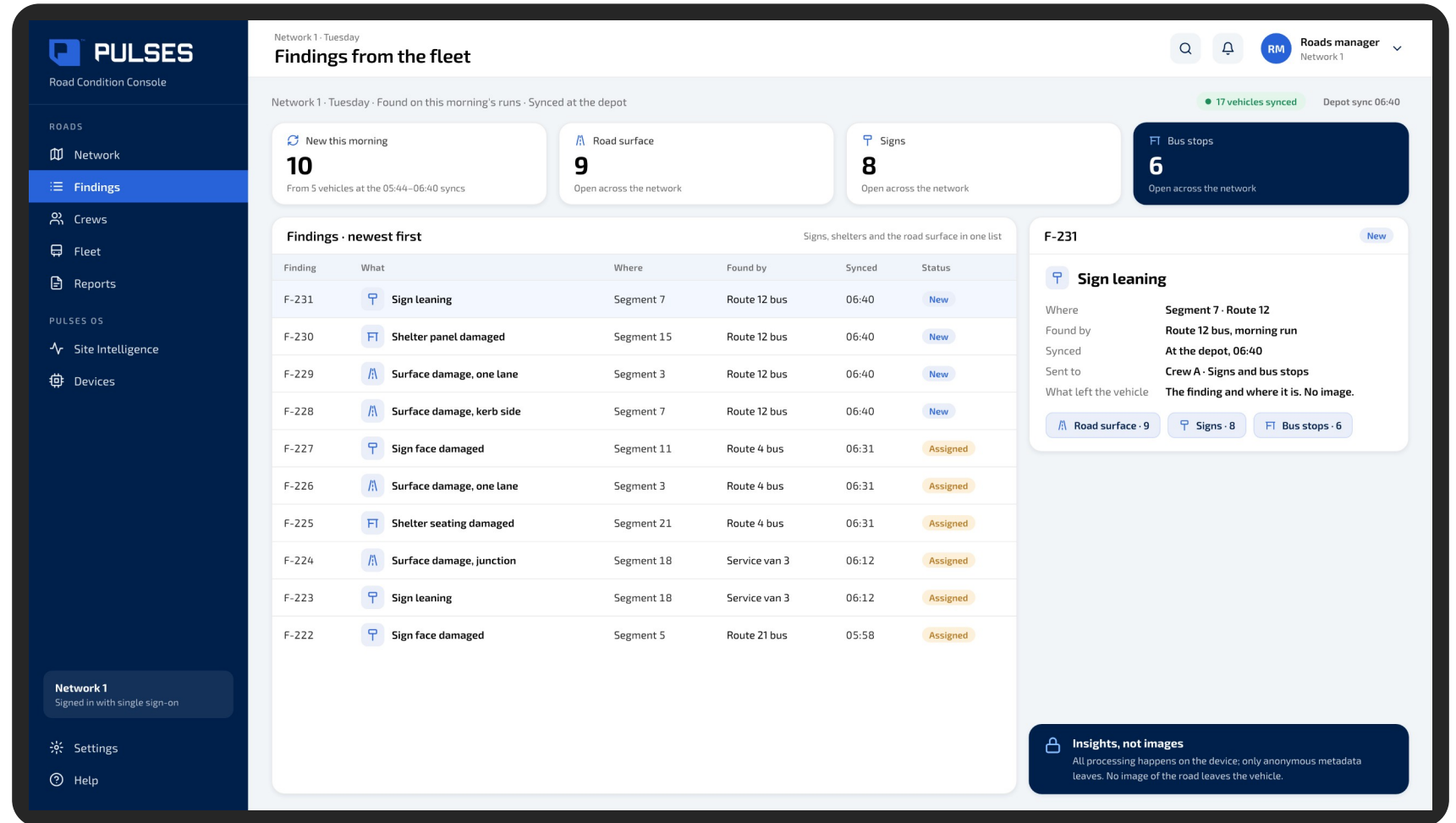
- Open findings, segment by segment
- Segments the fleet drove this week
- Each vehicle's latest depot sync



PULSES OS
Findings

Signs, shelters, the road surface.

- Road surface, signs and bus stops in one list
- Where it is, and which vehicle found it
- What left the vehicle: the finding, no image



PULSES
Road Condition Console

ROADS

- Network
- Findings**
- Crews
- Fleet
- Reports

PULSES OS

- Site Intelligence
- Devices

Network 1
Signed in with single sign-on

Settings

Help

Network 1 - Tuesday

Findings from the fleet

Network 1 - Tuesday - Found on this morning's runs - Synced at the depot

New this morning
10
From 5 vehicles at the 05:44-06:40 syncs

Road surface
9
Open across the network

Signs
8
Open across the network

Bus stops
6
Open across the network

17 vehicles synced Depot sync 06:40

Findings - newest first Signs, shelters and the road surface in one list

Finding	What	Where	Found by	Synced	Status
F-231	Sign leaning	Segment 7	Route 12 bus	06:40	New
F-230	Shelter panel damaged	Segment 15	Route 12 bus	06:40	New
F-229	Surface damage, one lane	Segment 3	Route 12 bus	06:40	New
F-228	Surface damage, kerb side	Segment 7	Route 12 bus	06:40	New
F-227	Sign face damaged	Segment 11	Route 4 bus	06:31	Assigned
F-226	Surface damage, one lane	Segment 3	Route 4 bus	06:31	Assigned
F-225	Shelter seating damaged	Segment 21	Route 4 bus	06:31	Assigned
F-224	Surface damage, junction	Segment 18	Service van 3	06:12	Assigned
F-223	Sign leaning	Segment 18	Service van 3	06:12	Assigned
F-222	Sign face damaged	Segment 5	Route 21 bus	05:58	Assigned

F-231 [New](#)

Sign leaning

Where: Segment 7 - Route 12
Found by: Route 12 bus, morning run
Synced: At the depot, 06:40
Sent to: Crew A - Signs and bus stops
What left the vehicle: The finding and where it is. No image.

[Road surface - 9](#) [Signs - 8](#) [Bus stops - 6](#)

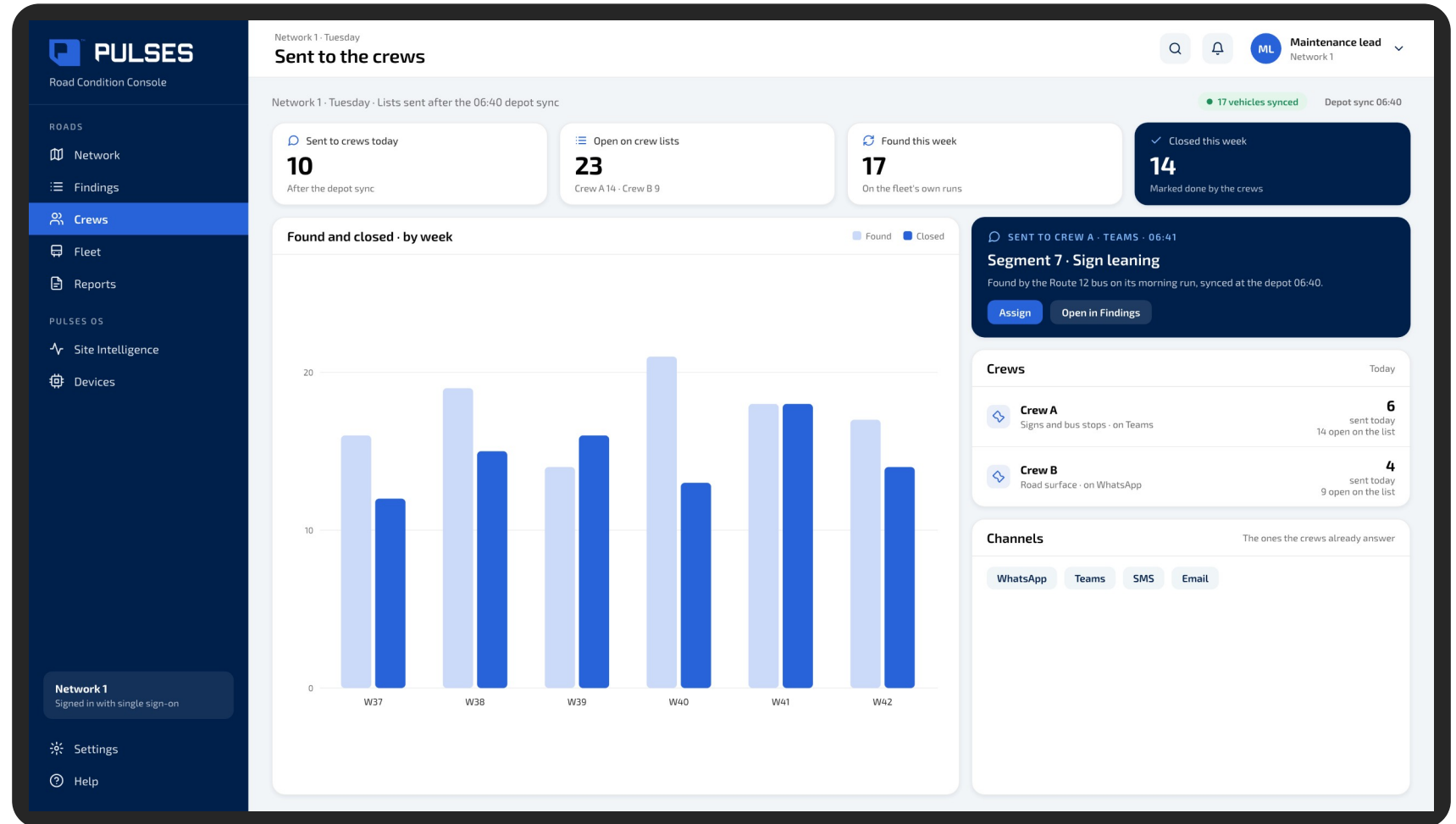
Insights, not images
All processing happens on the device; only anonymous metadata leaves. No image of the road leaves the vehicle.

PULSES OS

Crews

Sent to your crews.

- The list, sent after the depot sync
- Each crew on the channel it answers
- Found and closed, week by week



PROOF

150 million+

journeys counted across Pulses deployments

Anonymous platform total

NEXT STEP

Walk your routes with us.

We go through your routes and depots with you.

Book a walkthrough — pulses.ai/demo

The full showcase, with the film:
pulses.ai/use-cases/road-condition

The Operating System for the Physical World

Insights, not images.

 Designed and made in the UAE.



Scan for the showcase

Built on

