

SOLUTIONS & PLATFORM



One platform. Every facility.

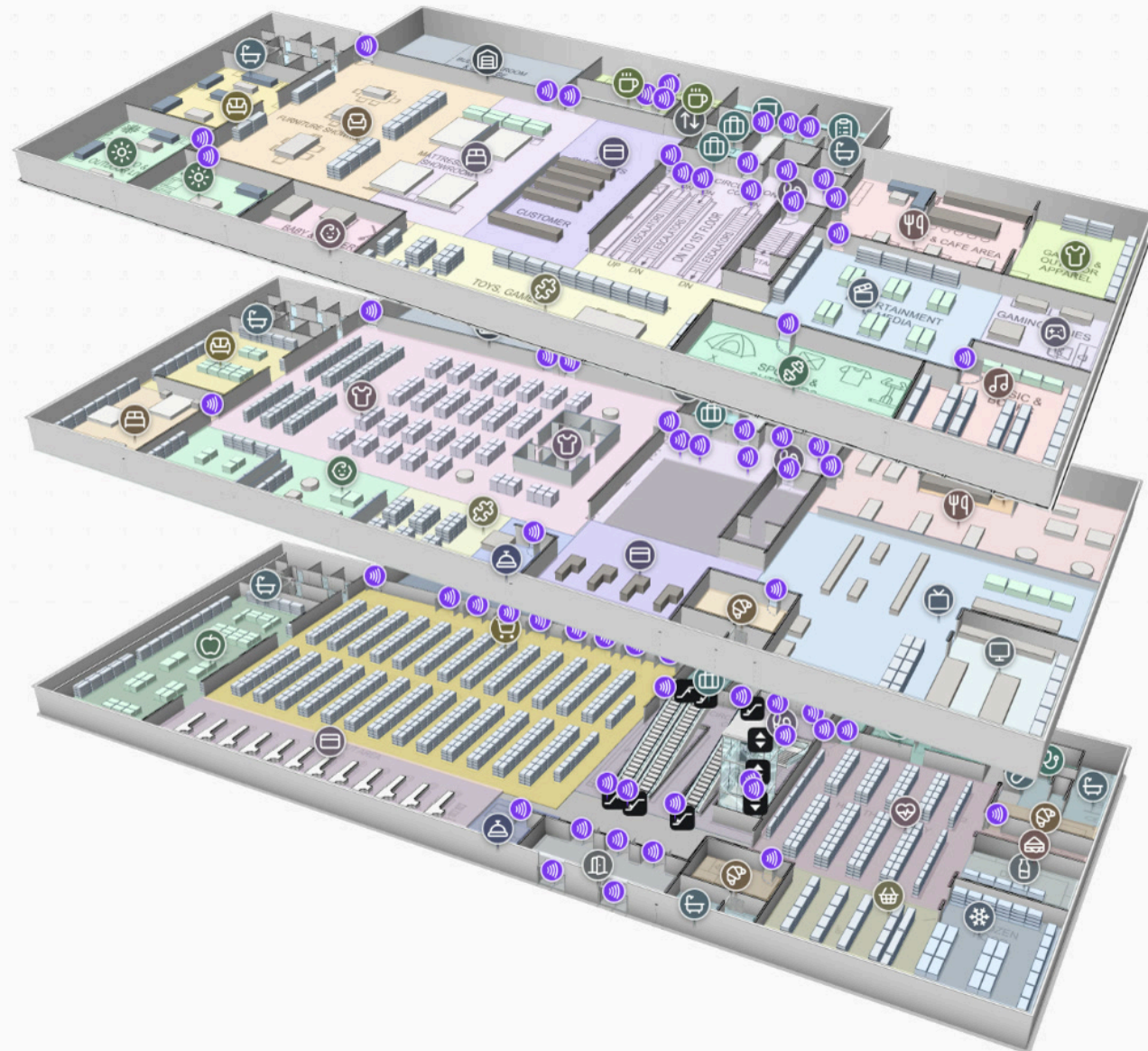
Seven custom solutions on one live 3D map — every building, device and alert.

TWINS • DEVICES • PLAYBACK • ALERTS • REPORTS

 13 FACILITIES

 7 SOLUTIONS

 1,893 CONNECTED DEVICES



Custom solutions by Spatial Map

contact@spatialmap.io · spatialmap.io

 LIVE 3D TWIN • RETAIL MART • 3 FLOORS

— INSIDE

One platform, seven solutions.

The platform every solution is built on, the seven solutions themselves, and how we design, build and run each one around your operation.

01	The challenge	Why operations still run blind	03
02	Every facility	13 real facilities on one live map	04
03	The live twin	Every floor, modelled to scale	05
04	Every device	1,893 devices, layer by layer	06
05	Live playback	Replay any moment, reader by reader	07
06	Alerts with location	Every alert pinned to the spot	08
07	Reports	149 reports, built in	09
08	Seven solutions	One page per solution	10
09	Custom builds	Any building, built for you	17
10	Connected technology	Connects what you already run	18
11	What we deliver	How we work, and how to reach us	19

THE SEVEN SOLUTIONS



Anti-theft

Stop shrink at the door, not at audit.

10

NORTHGATE ELECTRONICS



Asset Management

Know where every asset is.

11

HARBORVIEW · RIDGELINE · WESTBROOK



Inventory

Every pallet, carton and forklift, live.

12

CRESTLINE FULFILLMENT CENTER



Cold Chain

Catch every excursion.

13

POLAR PHARMA COLD STORAGE



Logistics

Every trailer, door and pallet, live.

14

EASTPORT CROSS-DOCK HUB



Supply Chain

From dock to line to truck.

15

SUMMIT ASSEMBLY PLANT



Venue

Every hall, gate and queue.

16

LAKE SIDE · SILVERBAY T2 · CROWN PARK

01 — THE CHALLENGE

Operations still run blind.

Every operation already collects data — from readers, sensors, cameras, docks and access systems. But each sits in its own tool. Stock losses, temperature breaks and late trucks surface at audit or after the cut-off, long after anyone could act.



01

Stock walks out unseen

Losses surface at audit, weeks after the door.

€23,108

LOST TO MISSING STOCK · 30 DAYS



02

Excursions found too late

Temperature breaks are spotted after the batch is gone.

36

TEMPERATURE EXCURSIONS · 60 DAYS



03

Docks and yards run late

Trucks wait while nobody sees the bottleneck.

1,029

DOCK TURNS STARTED LATE · 10 DAYS

AT A GLANCE

13

FACILITIES MODELLED

26

FLOORS & LEVELS

7

SOLUTIONS

1,893

CONNECTED DEVICES

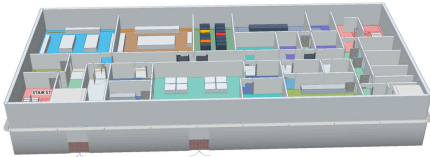
149

REPORTS BUILT IN

02 — EVERY FACILITY

13 facilities. One live map.

Each one is a real 3D twin, live on the same platform — from an electronics plant and a data center to an airport terminal, a stadium and a museum.



Northgate Electronics

● ANTI-THEFT



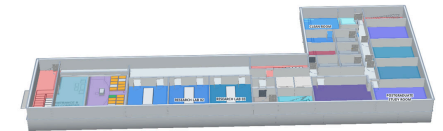
Harborview Campus

● ASSET MANAGEMENT



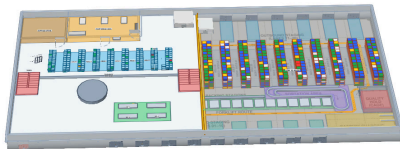
Ridgeline Data Center

● ASSET MANAGEMENT



Westbrook University

● ASSET MANAGEMENT



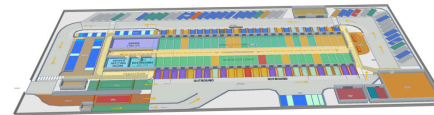
Crestline Fulfillment

● INVENTORY



Polar Pharma

● COLD CHAIN



Eastport Cross-Dock

● LOGISTICS



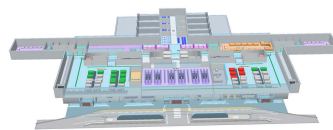
Summit Assembly Plant

● SUPPLY CHAIN



Lakeside Convention Center

● VENUE



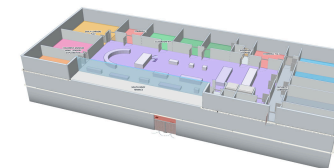
Silverbay Airport T2

● VENUE



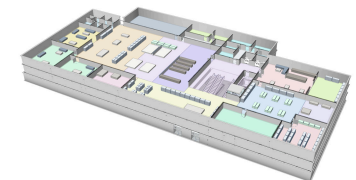
Crown Park Stadium

● VENUE



Production Museum

● CUSTOM BUILD



Retail Mart

● CUSTOM BUILD

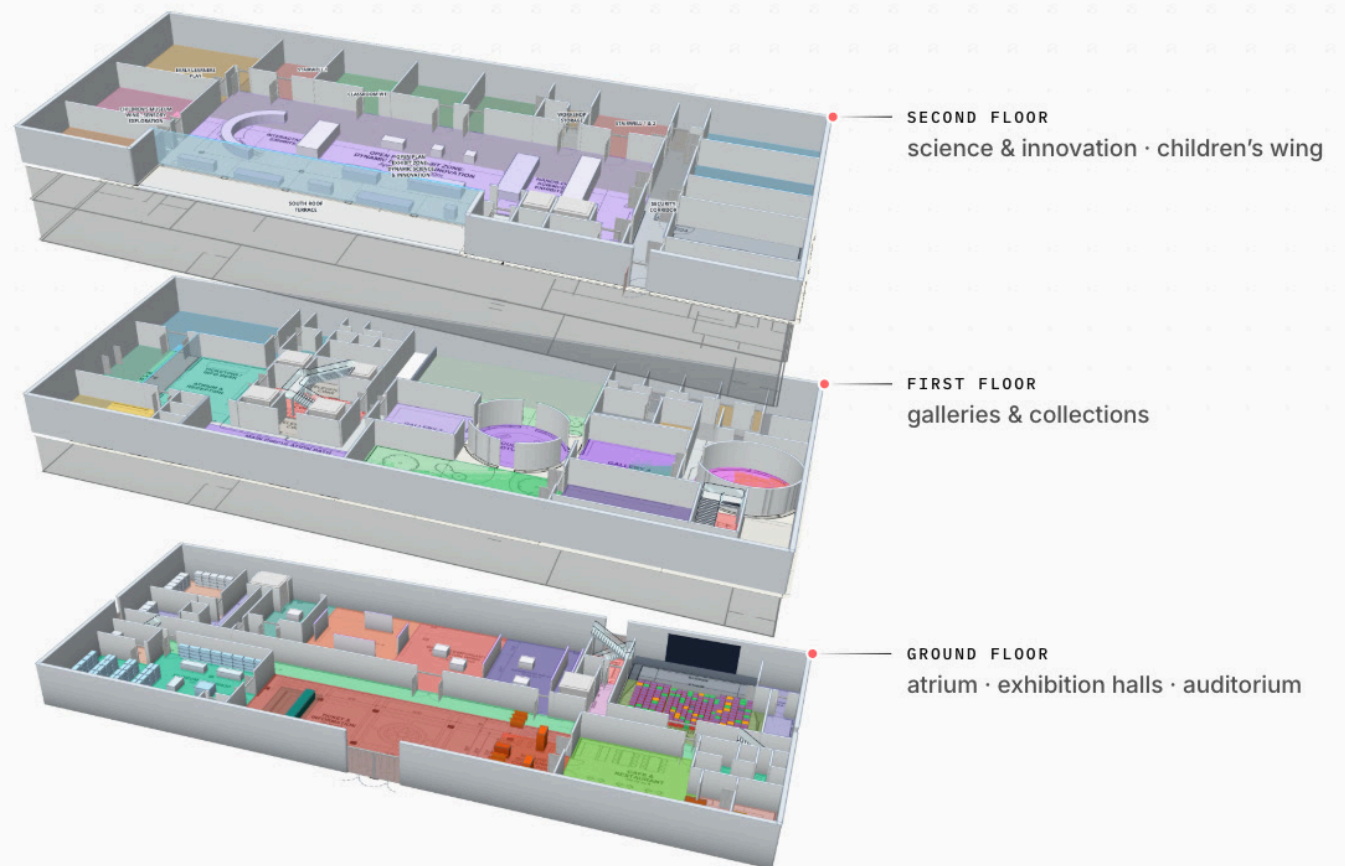
03 - THE LIVE TWIN

Every floor, modelled to scale.

PRODUCTION MUSEUM · 3 FLOORS

We model each building to scale from your drawings — every floor, room, rack and door — and layer every data source on top. The result is one live 3D twin in the browser, shared by operations, security and facilities teams.

- **Second floor**
Science & innovation · children's wing.
- **First floor**
Galleries & collections.
- **Ground floor**
Atrium · exhibition halls · auditorium.



3

FLOORS

69

ROOMS

14

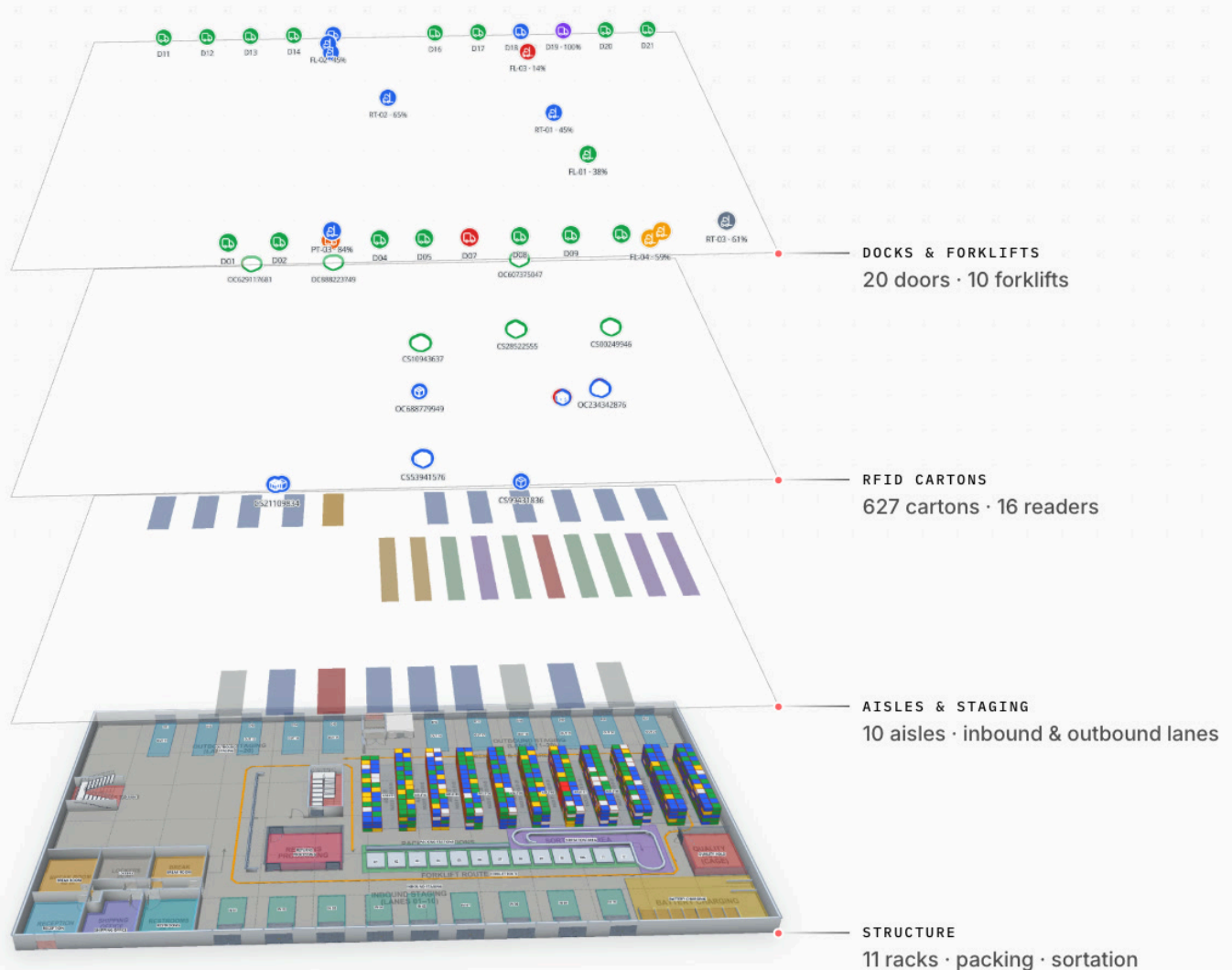
GALLERIES

04 - EVERY DEVICE

Every device, on one map.

📍 CRESTLINE FULFILLMENT CENTER • 4 LAYERS

Readers, tags, sensors, cameras and the systems you already run share one map, each on its own layer. Turn layers on and off or lift them apart — structure, aisles, RFID cartons, docks and forklifts — all live.



● **Docks & forklifts**

20 doors · 10 forklifts.

● **RFID cartons**

627 cartons · 16 readers.

● **Aisles & staging**

10 aisles · inbound & outbound lanes.

● **Structure**

11 racks · packing · sortation.

1,893

CONNECTED DEVICES

242

RFID READERS

623

SENSORS

05 - LIVE PLAYBACK

Replay any moment, reader by reader.

EASTPORT • POLAR PHARMA • LAKESIDE

The twin is not a picture — it is live. Every RFID read moves its tag on the map, and the built-in history player replays any shift, so teams see exactly where a pallet, crate or carton waited, queued or went missing.

● **Eastport Cross-Dock** LOGISTICS

Pallets, trailers and doors, read by read.

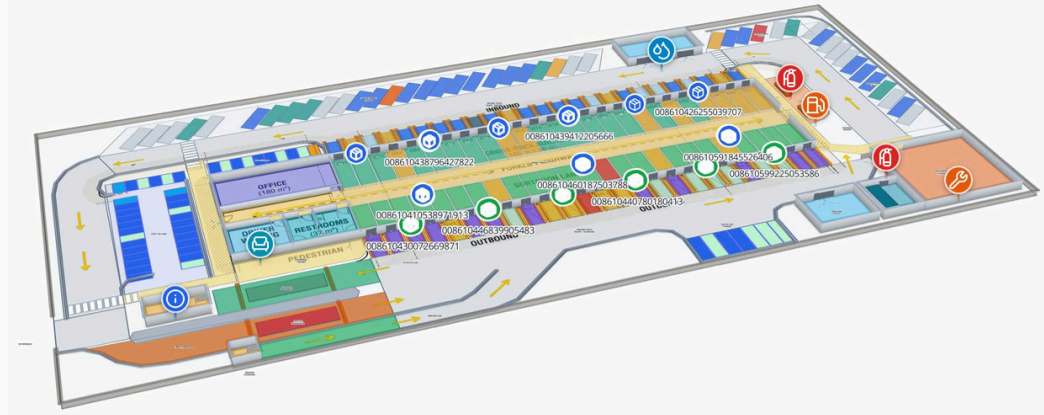
● **Polar Pharma** COLD CHAIN

647 RFID pallets and 8 temperature zones, live.

● **Lakeside Convention Center** VENUE

Exhibitor crates followed from the dock to the booth.

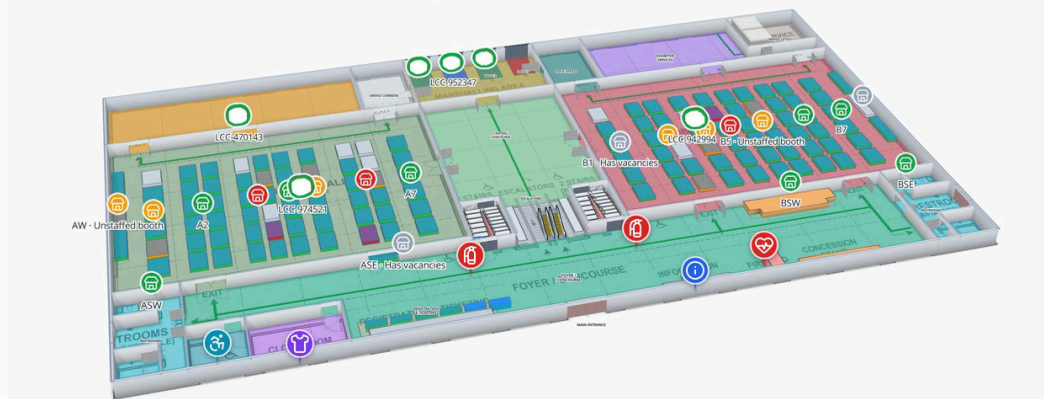
● LIVE ● EASTPORT CROSS-DOCK ● LOGISTICS



● POLAR PHARMA • COLD CHAIN



● LAKESIDE CONVENTION CENTER • VENUE



156,800

LIVE DATA ROWS

1,180

RFID PALLETS
AT EASTPORT

516

RFID CRATES
AT LAKESIDE

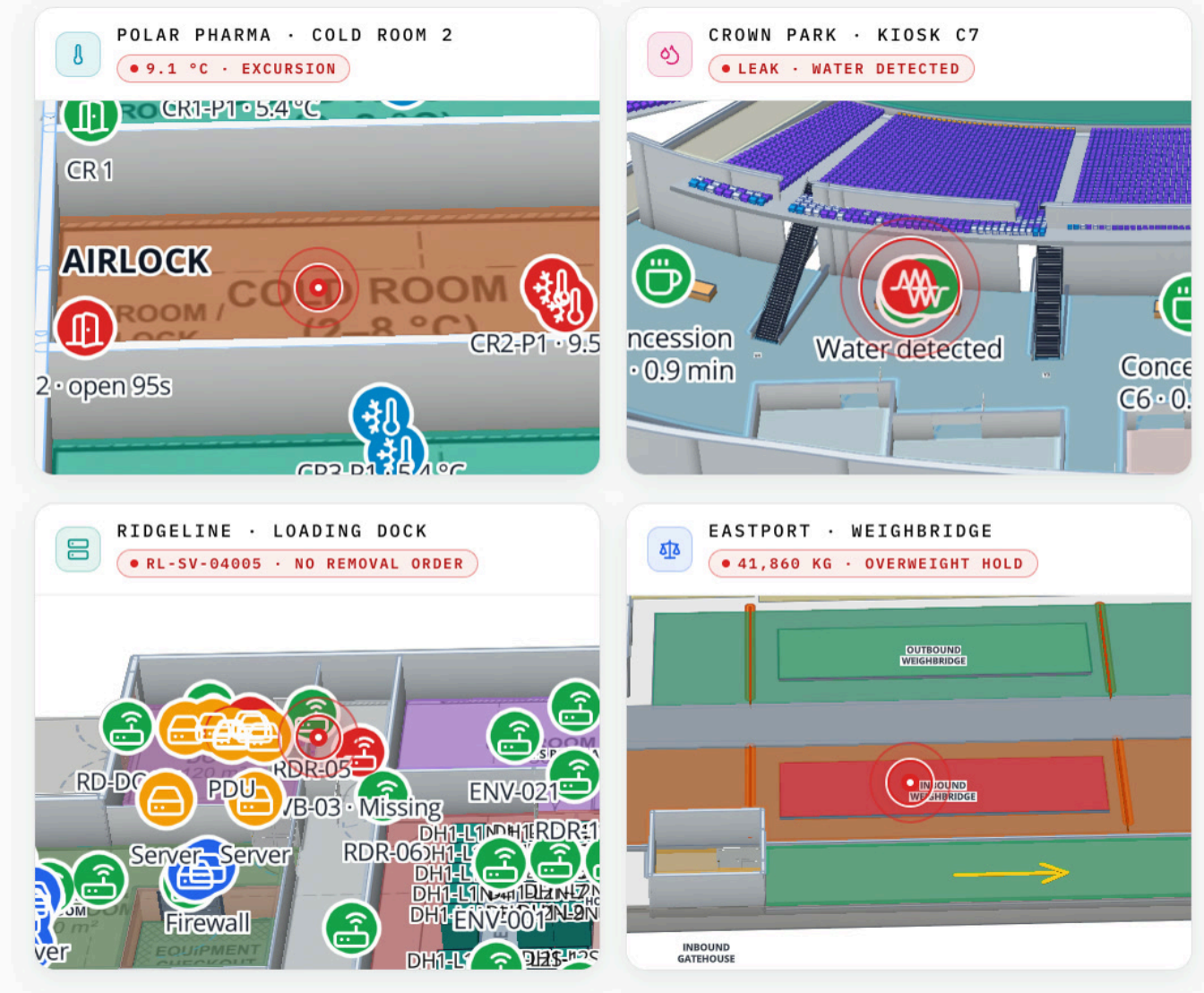
06 - ALERTS WITH LOCATION

Every alert, pinned to the spot.

4 SITES • 4 SOLUTIONS

An alert is only useful if you know where to go. Each one lands on the twin at the exact room, door, rack or lane — with the live readings and history beside it — so the right team acts first time.

- Polar Pharma • Cold Room 2** 9.1 °C • EXCURSION
 Out of its 2–8 °C band; the room door held open 95 s.
- Crown Park • Kiosk C7** LEAK
 Water detected at the kiosk floor drain.
- Ridgeline • Loading dock** NO REMOVAL ORDER
 Server RL-SV-04005 read leaving with no removal order.
- Eastport • Weighbridge** OVERWEIGHT HOLD
 41,860 kg against a 40,000 kg limit.



82 min

PLANT ALARM BEFORE
EXCURSION

1,558

TRUCKS WEIGHED
IN 7 DAYS

31

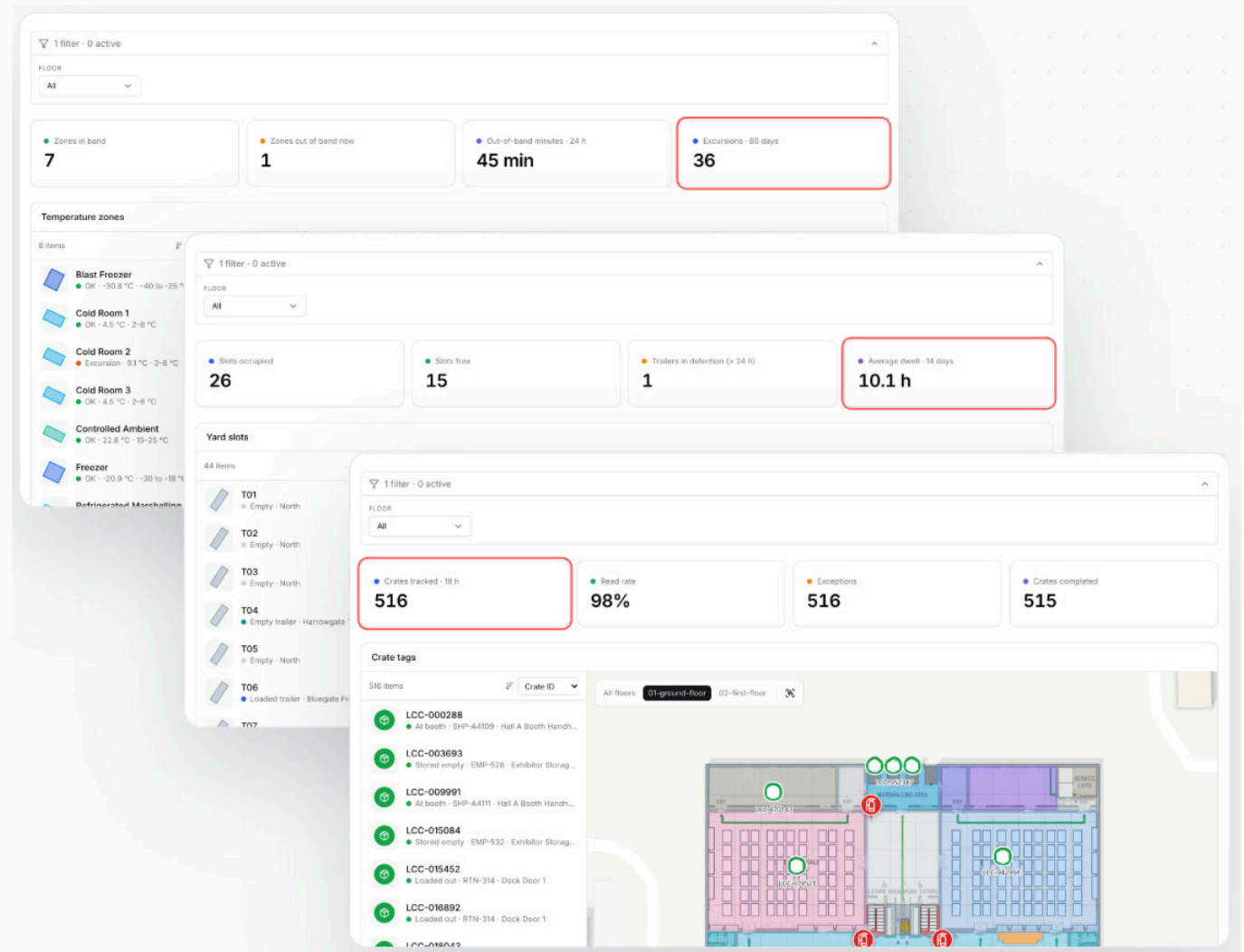
CONCOURSE SENSORS
AT CROWN PARK

07 — REPORTS

149 reports, built in.

Every map layer feeds reports your teams already use — built around your KPIs and ready from day one. Each report keeps its live map, so a number always leads back to the place it comes from.

- Cold Chain · Excursions — zones in band, out-of-band minutes and every excursion.
- Logistics · Yard — slots occupied and free, trailers in detention, average dwell.
- Venue · RFID crates — every crate tracked, with its read rate and exceptions.



36

EXCURSIONS
IN 60 DAYS

10.1h

AVERAGE YARD DWELL
OVER 14 DAYS

98%

CRATE READ RATE

SOLUTION 01 / 07

Anti-theft

Stop shrink at the door, not at audit.

 NORTHGATE ELECTRONICS

 217 CONNECTED DEVICES

RFID, access control, CCTV and intrusion sensors on one live map. A forced cage or a unit leaving the secure zone shows up at the door — with its camera and its stock.

SOLVES

€23,108

Stock walks out unseen

LOST TO MISSING STOCK • 30 DAYS

21

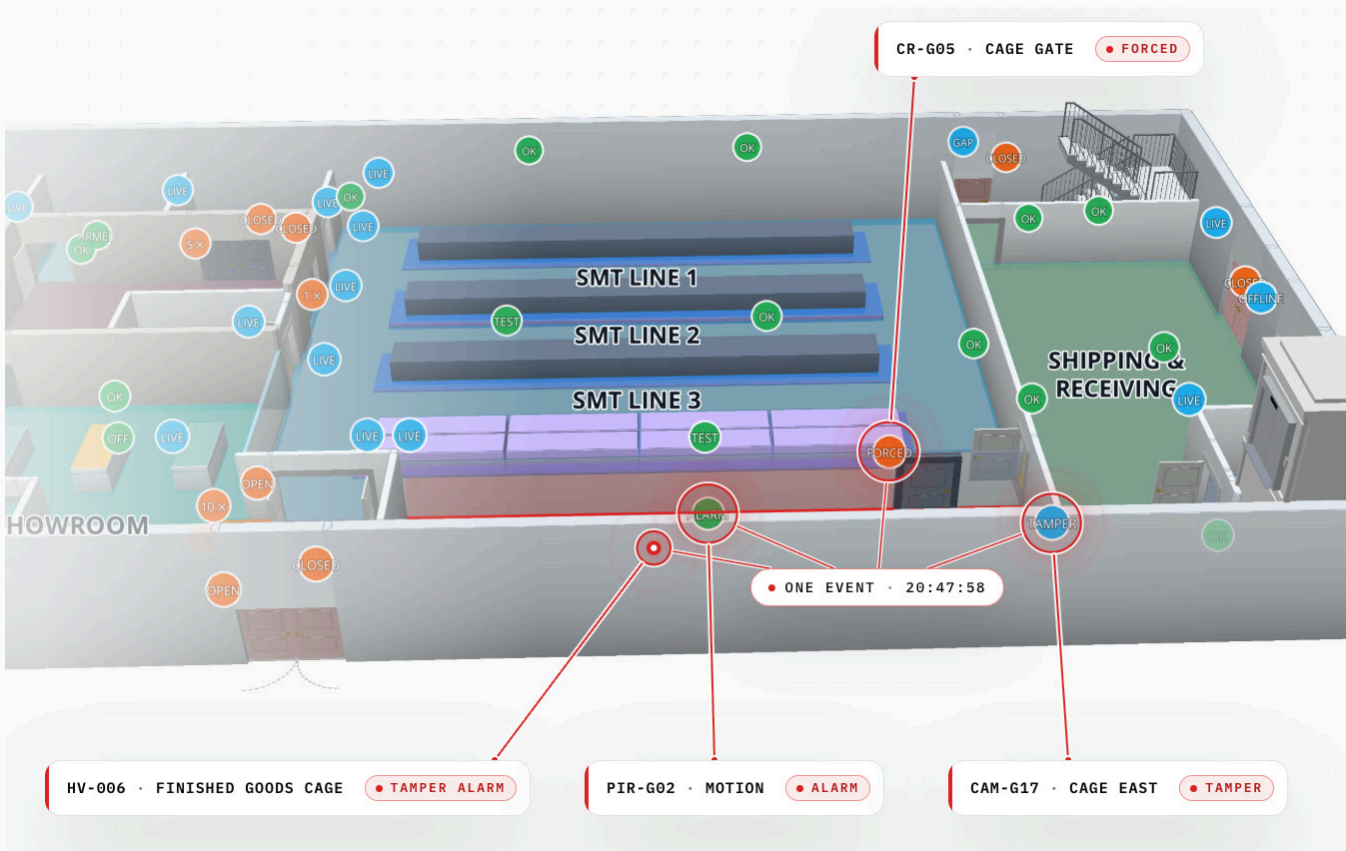
Tailgates and forced doors

TAILGATES & FORCED DOORS • 30 DAYS

€3,518

Shrink hidden on the line

UNACCOUNTED • 14 DAYS



WHAT IT DOES

 RFID unit tracking

 Alarms on the map

 Badges & zones

 Shrink reports

SOLUTION 02 / 07



Asset Management

Know where every asset is, and where it's going.

📍 HARBORVIEW · RIDGELINE · WESTBROOK

📶 600 CONNECTED DEVICES

Laptops, servers and instruments in one register, placed on the map. RFID portals catch kit leaving without a loan or a removal order, and maintenance shows which instruments can't run today.

SOLVES

11

Kit walks out unseen

UNAUTHORISED EXITS · 7 DAYS

\$247K

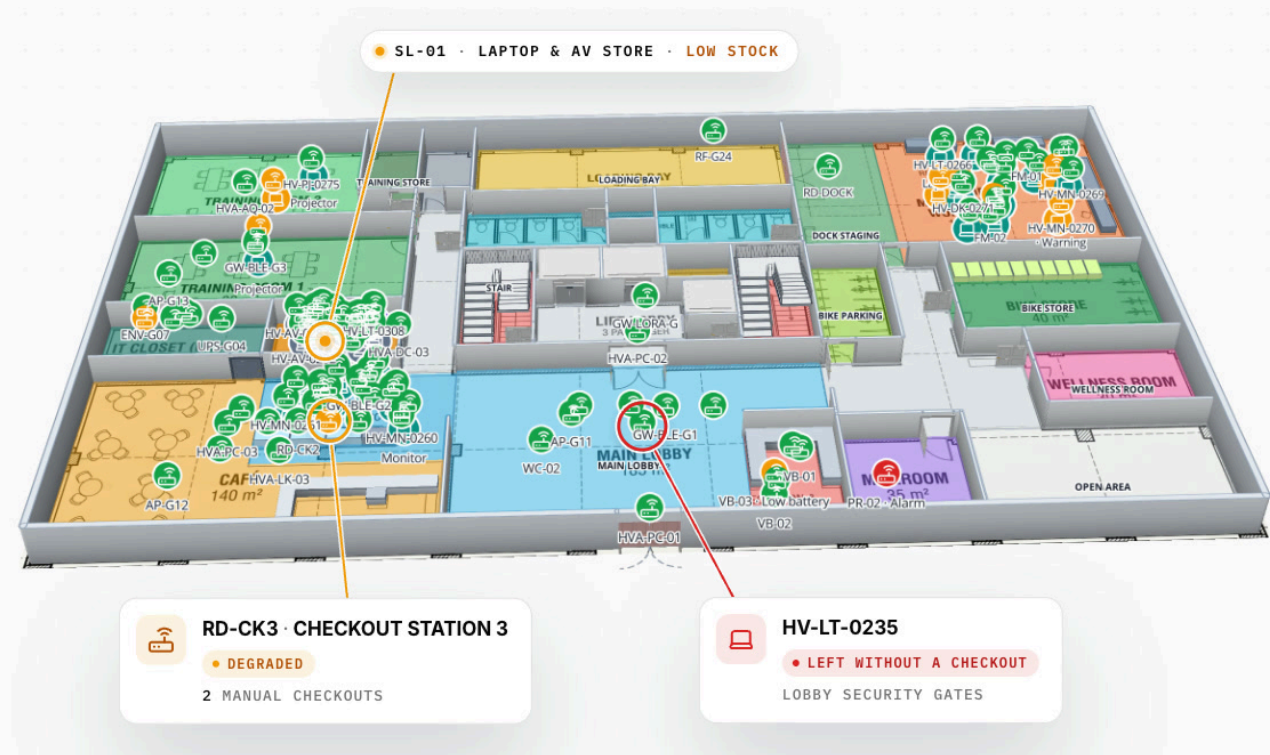
IT kit off the rack

OF IT KIT OUTSIDE A CABINET

\$1.2M

Costly instruments sit idle

OF INSTRUMENTS DOWN OR UNCALIBRATED



WHAT IT DOES

● Asset register & search

● Checkout & loans

● RFID at every door

● Maintenance & calibration

SOLUTION 03 / 07

Inventory

Every pallet, carton and forklift, live in 3D.

📍 CRESTLINE FULFILLMENT CENTER

📶 102 CONNECTED DEVICES

Every pallet location, carton and forklift on one map. Bin states update live, RFID portals follow each carton to its door, and dwell, congestion and low batteries are flagged where they happen.

SOLVES

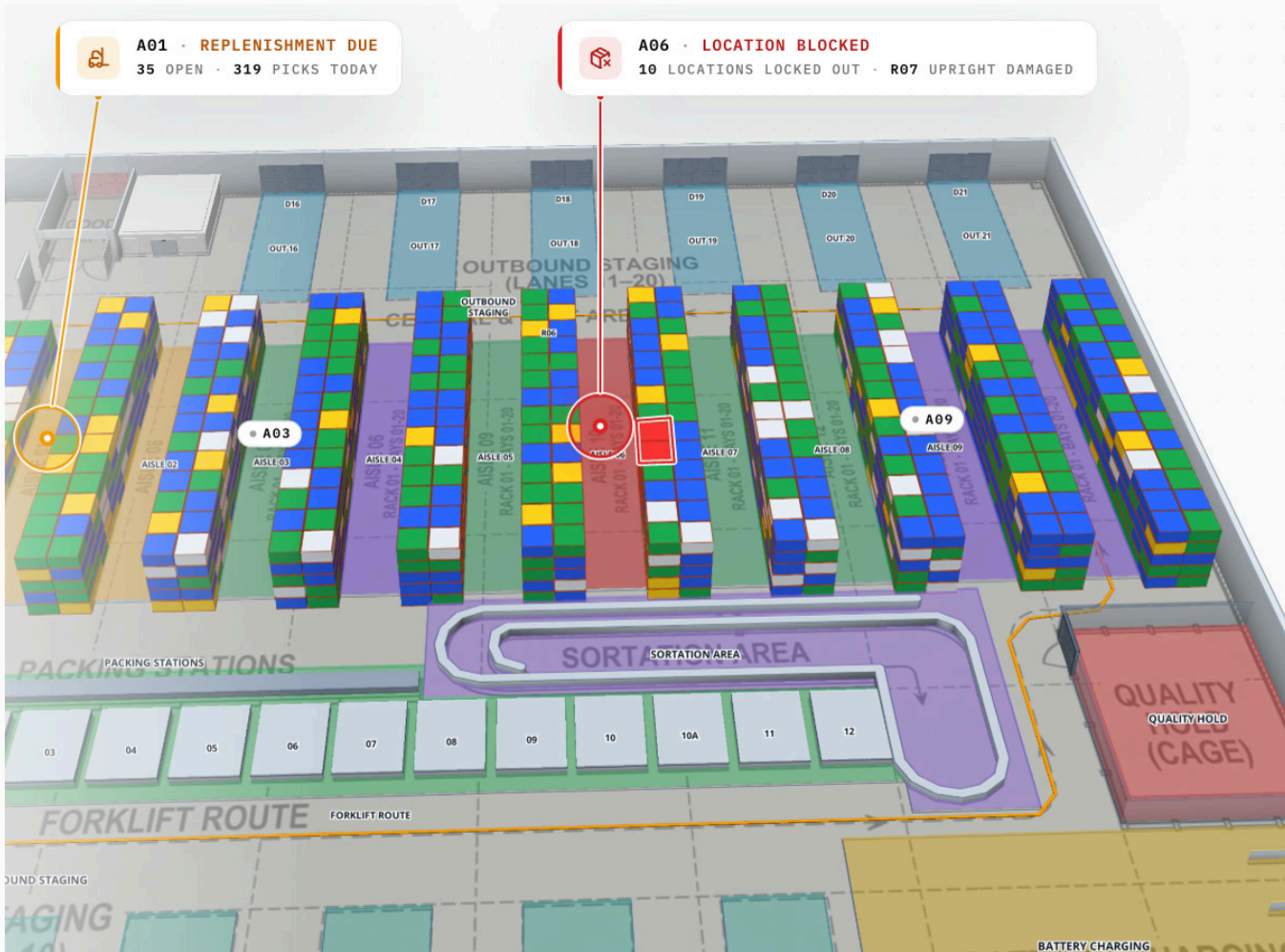
143 Empty slots, blind replenishment
LOCATIONS RUNNING LOW · LIVE

17 Cartons at the wrong door
CARTON EXCEPTIONS · 6 HOURS

141 Trailers stuck at docks
TRAILER DETENTIONS · 14 DAYS

WHAT IT DOES

- Live rack inventory
- RFID carton tracking
- Docks & forklifts
- Replenishment alerts



SOLUTION 04 / 07

Cold Chain

Catch every excursion before it costs a batch.

📍 POLAR PHARMA COLD STORAGE

📶 97 CONNECTED DEVICES

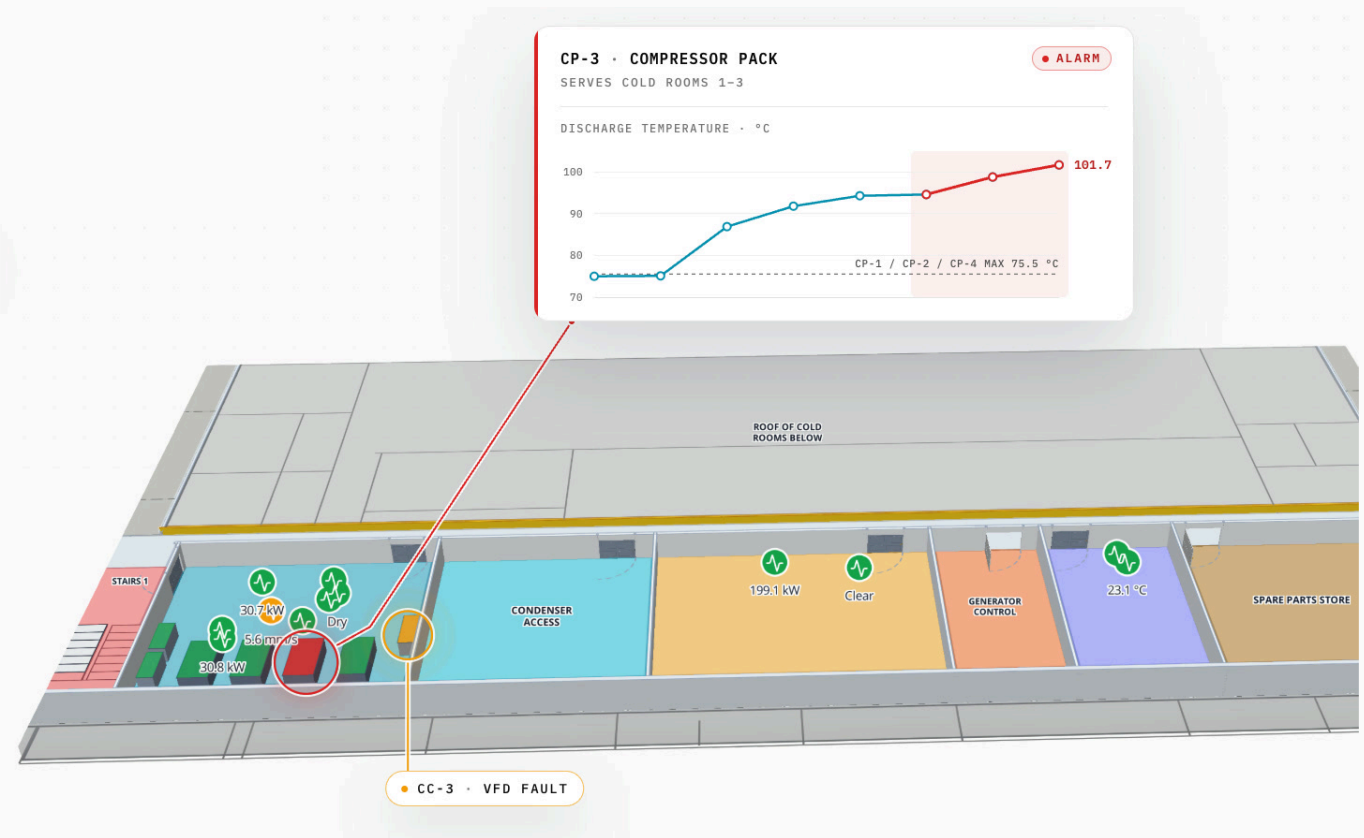
Probes, doors, plant and RFID pallets on one map of the cold store. An excursion is traced to its root cause — here a compressor pack that alarmed 82 minutes before the room left its band.

SOLVES

36 Excursions found too late
TEMPERATURE EXCURSIONS • 60 DAYS

53 Cold doors held open
HELD-OPEN DOOR ALARMS • 7 DAYS

\$949,320 Stock frozen in quarantine
ON EXCURSION HOLD • 60 DAYS



WHAT IT DOES

- Live zone climate
- Door & plant alarms
- RFID pallet tracing
- GDP reports

SOLUTION 05 / 07

Logistics

See every trailer, door and pallet, live.

📍 EASTPORT CROSS-DOCK HUB

📶 104 CONNECTED DEVICES

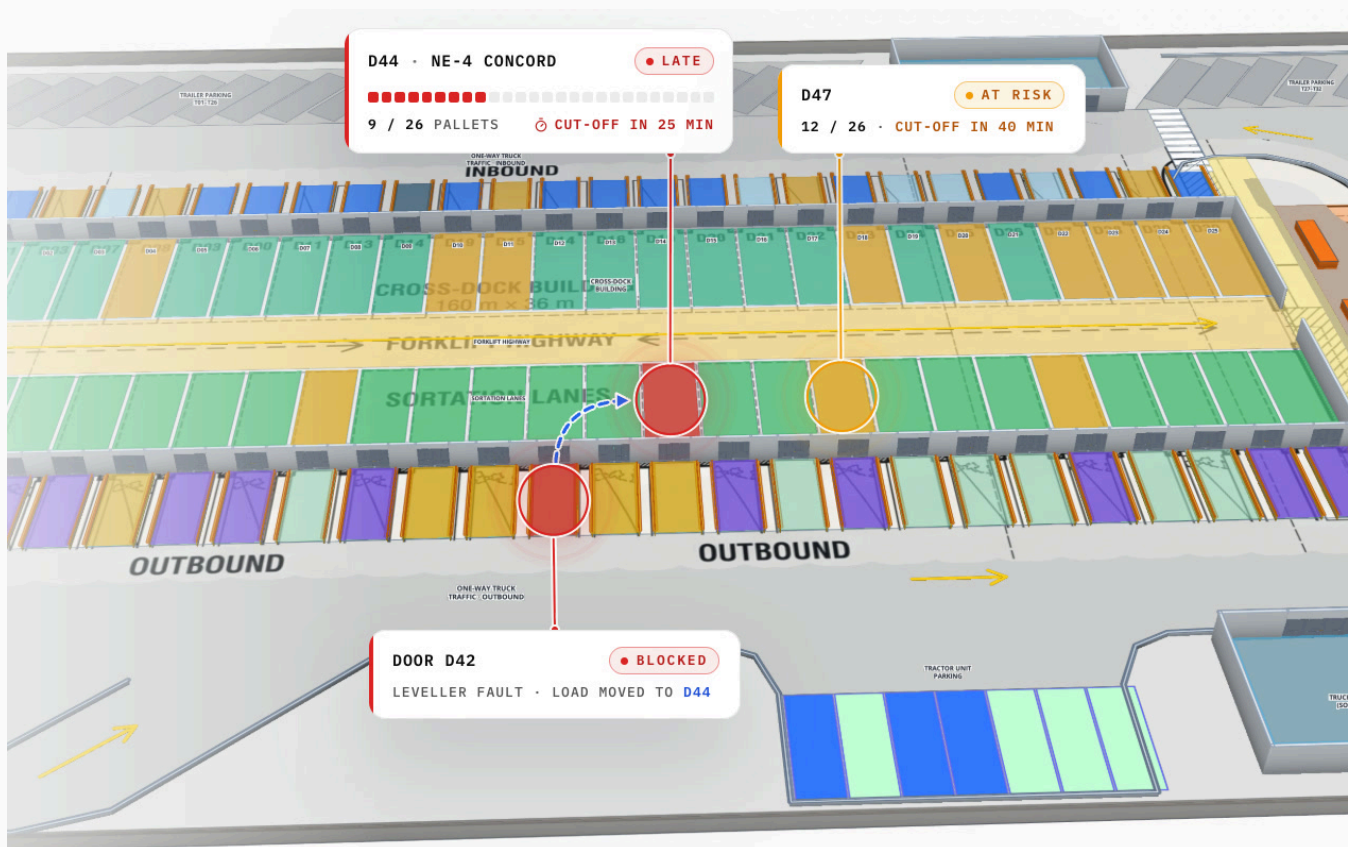
Gate, yard, doors and pallets on one live map of the hub. Overweight trucks, trailers in detention and short loads are flagged in place, before a lane misses its cut-off.

SOLVES

1,029	Late dock appointments DOCK TURNS STARTED LATE • 10 DAYS
46	Trailers forgotten in the yard TRAILERS HELD OVER 24 H • 15 DAYS
30	Overweight trucks at the gate TRUCKS OVER 40,000 KG • 7 DAYS

WHAT IT DOES

- Gate & weighbridge
- Yard & trailers
- RFID pallet tracking
- Cut-off risk



SOLUTION 06 / 07

Supply Chain

From dock to line to truck, live in 3D.

📍 SUMMIT ASSEMBLY PLANT

📶 99 CONNECTED DEVICES

Docks, stores, kitting, lines and quality on one map of the plant. A held supplier lot is traced to the line it is starving, and carriers that skip QC are flagged where they happen.

SOLVES

176

Trucks start late

OF 666 DOCK SLOTS LATE · 14 DAYS

518 min

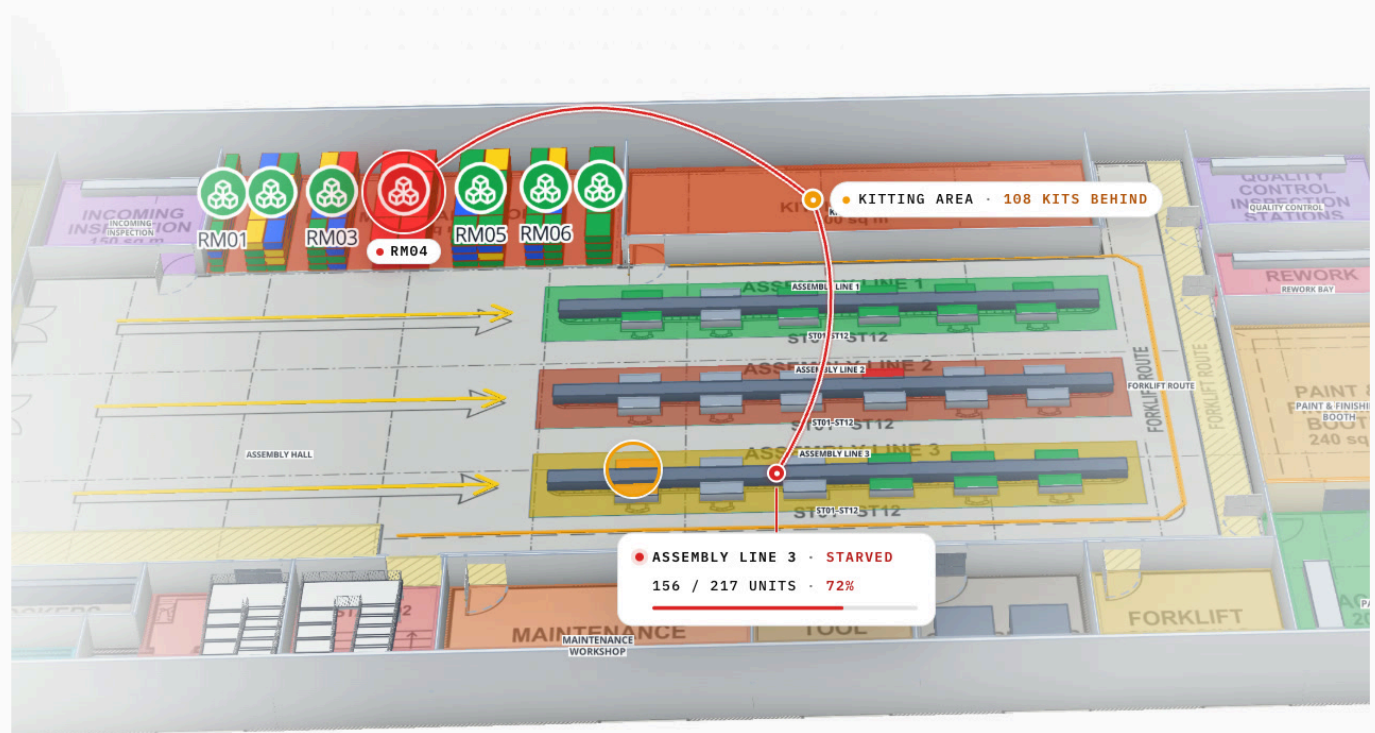
Parts run out mid-shift

SHORTAGE DOWNTIME · 7 DAYS

9

Skipped quality checks

CARRIERS SKIPPED QC · 12 HOURS



WHAT IT DOES

- Dock appointments
- Shortage tracing
- RFID WIP tracking
- OEE & quality reports

SOLUTION 07 / 07

Venue

Every hall, gate and queue, live in 3D.

📍 LAKESIDE · SILVERBAY T2 · CROWN PARK

📶 292 CONNECTED DEVICES

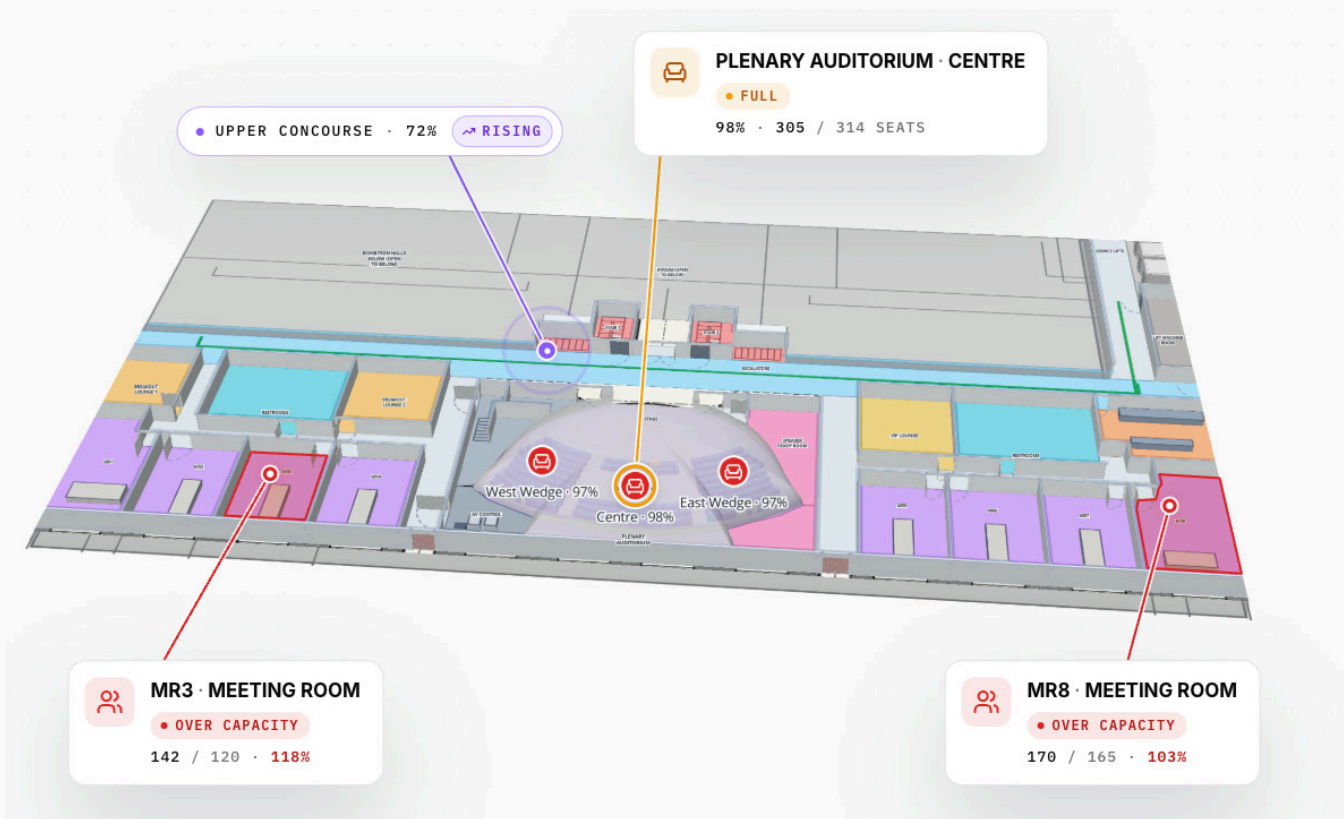
Rooms, gates, queues and shared kit across a convention center, an airport terminal and a stadium. Over-capacity rooms, growing queues and missing wheelchairs show up live, where staff can act.

SOLVES

9 Rooms overflow mid-session
SESSIONS OVER CAPACITY · 2 DAYS

29 min Queues build out of sight
IMMIGRATION WAIT · 135 QUEUING

3 Shared kit goes missing
LOAN WHEELCHAIRS MISSING



WHAT IT DOES

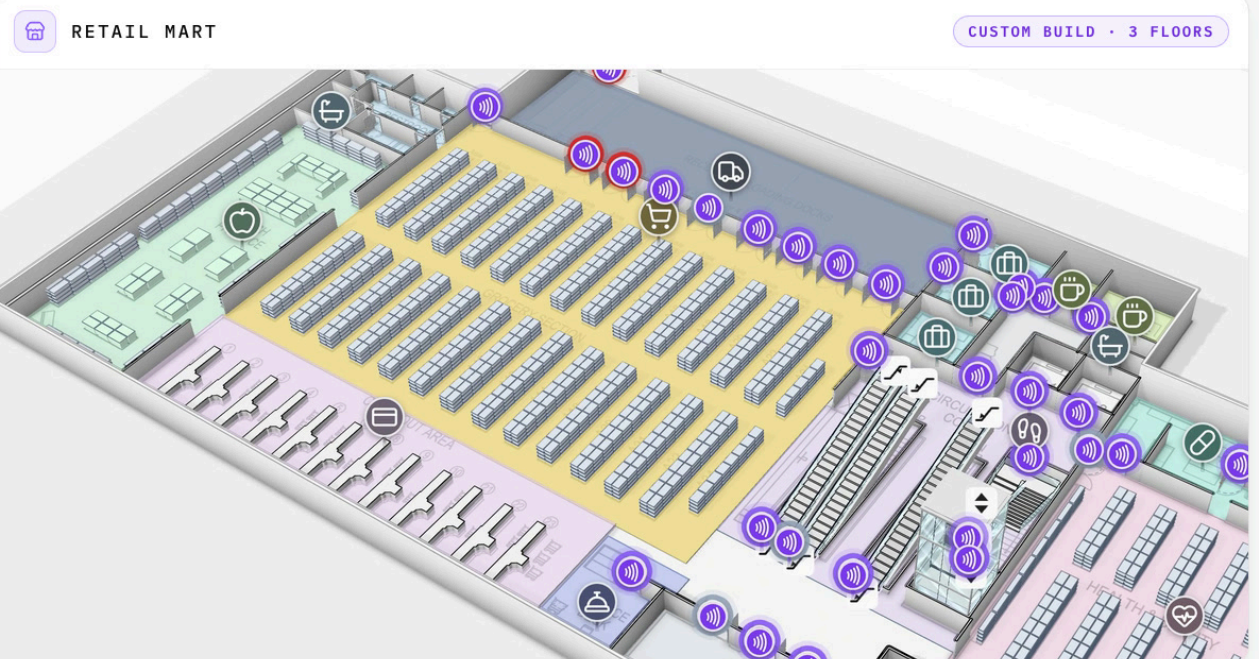
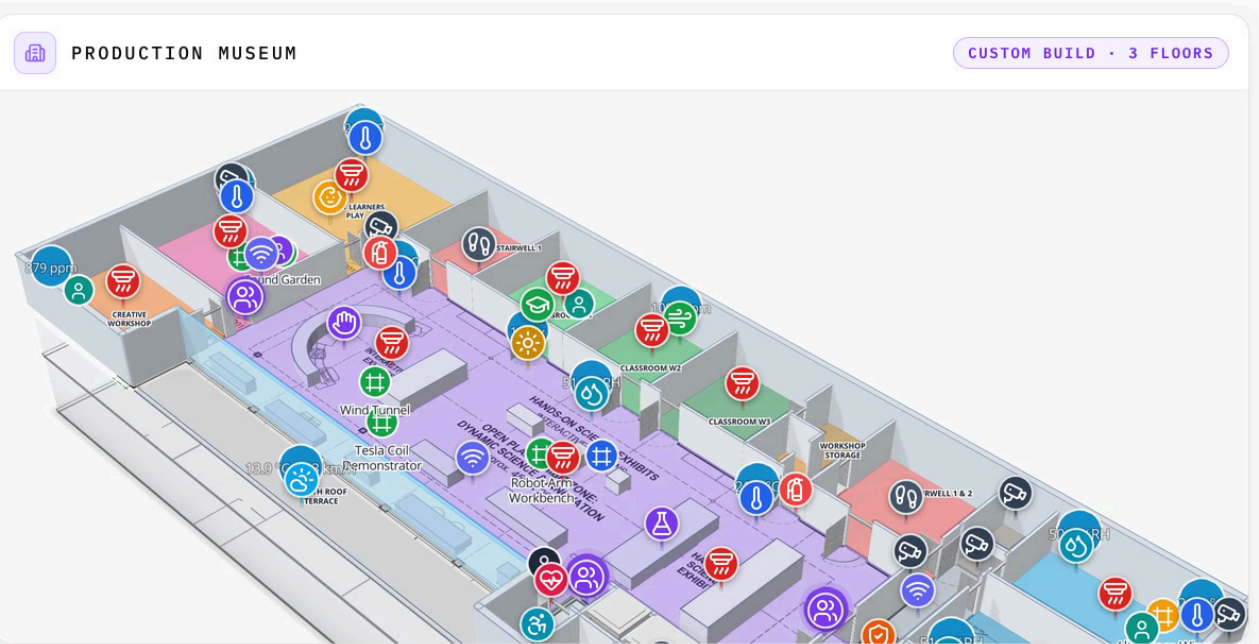
- Room occupancy
- Queues & gates
- Asset finder
- Leak & air alerts

Any building.
Built for you.

The seven solutions are starting points, not limits. The same platform runs a three-floor science museum and a three-floor retail store — each built around how it operates, from visitors and climate to RFID stock.

- **Production Museum** CUSTOM BUILD
Entries, gallery climate and 31 live cameras on one map.
- **Retail Mart** CUSTOM BUILD
61,795 RFID reads today across 27,786 unique tags.

RFID READERS IN THE STORE



10 - CONNECTED TECHNOLOGY

Connects what you already run.

New RFID, BLE and sensor networks sit alongside the equipment you already own. Across 13 facilities, 1,893 devices feed 149 map data layers and 291 data tables — one map, no rip-and-replace.

1,893

DEVICES ON ONE MAP

13

FACILITIES

26

FLOORS & LEVELS

149

REPORTS



623

Sensors

CLIMATE, DOORS, LEAKS, POWER, CO₂



242

RFID readers

LLRP • PORTALS, DOCKS, RACKS



236

BLE tags

ASSETS, TOOLS, CARTS, WHEELCHAIRS



178

Gateways

BLE • LORAWAN • MODBUS • LLRP



68

CCTV cameras

ONVIF • LINKED TO ALARMS



60

People counters

ROOMS, GATES AND QUEUES



Connects what you already run

Access control, CCTV, forklift and tractor telematics, utility meters and building plant are connected as they are — on the same map as the new readers, tags and sensors.

PROTOCOLS

LoRaWAN

BLE 5.0

LLRP

MQTT

Modbus TCP

ONVIF

— 11 — WHAT WE DELIVER

One platform. Like no other.



Every site, live in 3D

Each building and floor as a real-time twin, to scale.



Every device on one map

RFID, BLE, sensors, cameras and the systems you run.



Alerts that show where

Every exception pinned to the exact spot, with playback.



Reports your teams use

Built around your KPIs, ready from day one.



Built end-to-end for you

Designed, integrated and run around your operation.

HOW WE WORK

1 Discover

We walk your sites with your teams and agree the questions the solution must answer.

2 Model

We build your buildings as a live 3D twin — every floor, room, rack and door, to scale.

3 Connect

We integrate the readers, sensors, cameras and systems you have, and add what is missing.

4 Configure

Alerts, playback and reports are set up around your workflows and KPIs.

5 Run & evolve

We support the solution and extend it as your operation changes.

LET'S MAP YOUR OPERATION

contact@spatialmap.io

spatialmap.io

Tell us about your sites — we design, build and run the solution around them.

