

PHYSICAL AI · MADE IN INDIA

Drones and robots that **find problems early**, so your engineers fix them on time

DevHeal Labs builds Physical AI for railways, agriculture, infrastructure and factories. Our drones inspect assets, our AI finds and locates defects, and every finding becomes a work order your engineer approves.



Railways

Drone + AI track inspection.

Factories

Safe autonomous operations.

Agriculture

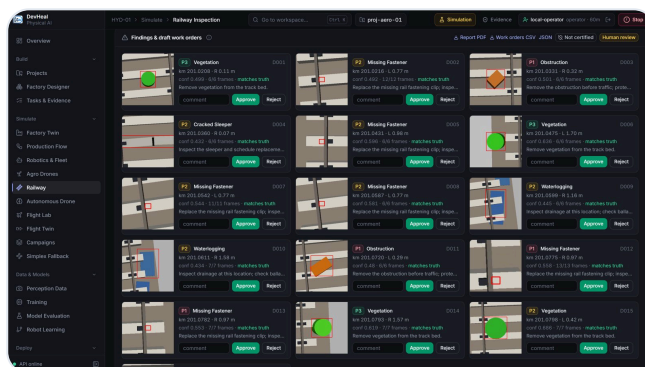
Precise crop spraying.

Drone + AI track inspection

Track is still checked mostly on foot. Patrols are slow, inspectors work next to live traffic, and small defects grow between visits. Our system gives every section a fast, repeatable, recorded inspection.

What it does

- A drone flies the section at about 6 m and photographs every sleeper
- AI finds missing fasteners, cracked sleepers, vegetation, obstructions and standing water
- Each defect is placed at its exact km/metre chainage, with its photo
- Each finding becomes a draft work order with priority P1, P2 or P3
- A named engineer approves or rejects it. Nothing is issued automatically
- PDF and Excel reports for the division office



What you gain

Faster

Cover a section in minutes instead of hours on foot.

Safer

Fewer people walking next to live traffic.

Traceable

Every finding has a photo, a location and a named decision.

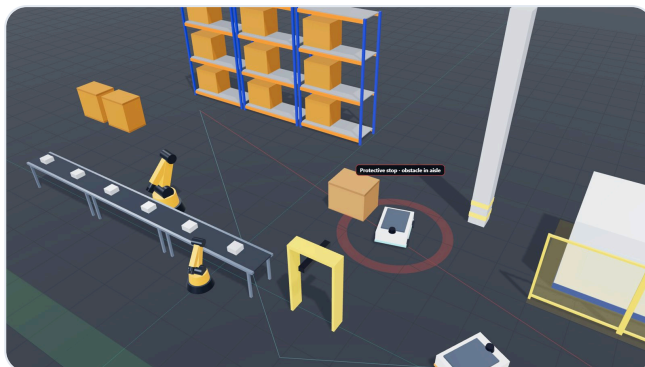
For: Indian Railways zones and divisions, metro rail corporations, freight corridors and track contractors.

Safe autonomous operations

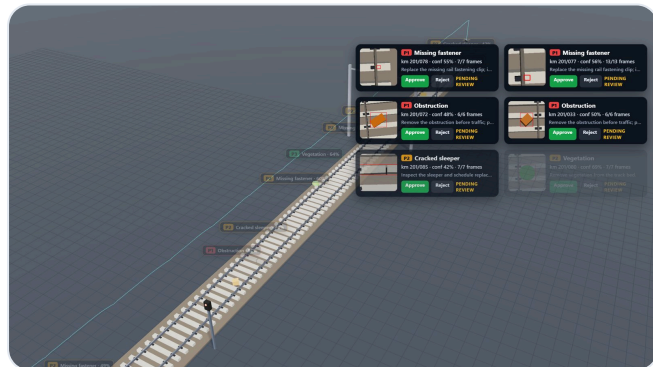
Run robots, mobile carts and machines with fewer people on the floor, and prove the safety rules hold before anyone relies on them.

- Every robot command is checked against speed limits, safe zones and door interlocks
- One software emergency stop halts every robot, cart, machine and drone
- Test your real PLC program against a simulated line before installation
- Signed records of every decision, for audits

For: automation integrators, automotive and electronics plants, warehouse operators.



FlightOps: mission software + inspection AI



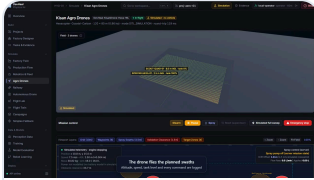
Plan routes, manage pilots and fleets, store flight media and turn images into findings, on your own aircraft.

- Works with PX4-based drones, including Indian-built aircraft
- Every mission can be rehearsed in simulation before it flies
- Synthetic training data for rare defects
- Runs on your own servers, with sign-in and encryption

For: drone makers, drone service providers, highway and power-line teams.

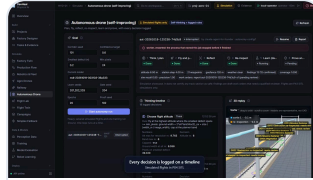
What our Physical AI can do

Every picture is from the live DevHeal console in simulation. Videos of each feature are on our website.



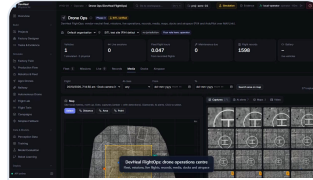
Agro drone (Kisan)

Crop spraying with a server safety check before arming



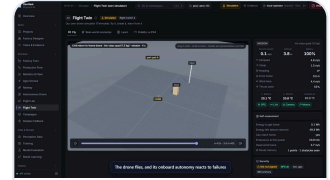
Self-improving drone

Fly, detect, re-inspect, learn, retrain behind a gate



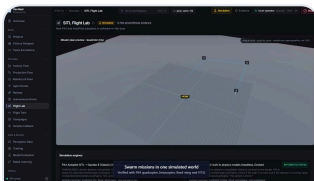
FlightOps

Fleet, missions, records, maps, docks, airspace



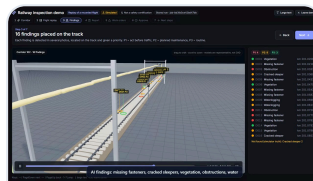
Flight Twin

Our own drone simulator with failures and autonomy



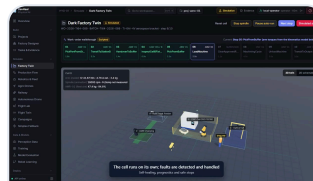
Flight Lab

Real PX4 and ArduPilot autopilots, swarms



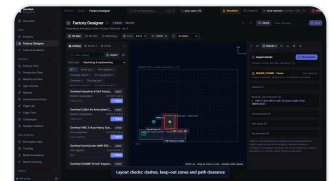
Railway inspection

Defects by chainage, work orders, engineer approval



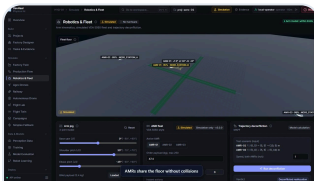
Dark factory twin

A lights-out cell that handles faults safely



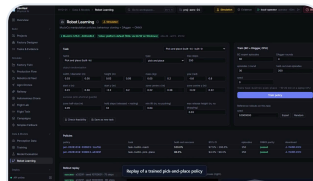
Factory Designer

Build a plant, check clashes and clearances



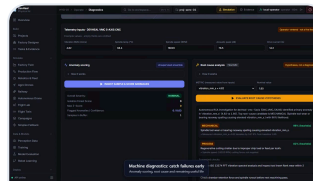
Robotics and fleet

Arms and AMRs, VDA 5050, no collisions



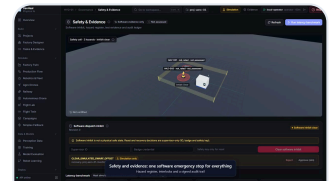
Robot learning

Teach an arm by demonstration



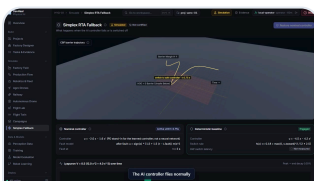
Diagnostics

Anomaly, root cause, remaining useful life



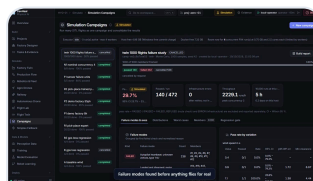
One emergency stop

Halts every robot, machine and drone



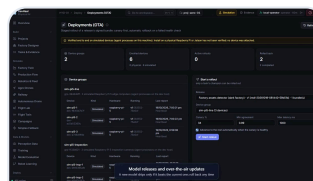
Safety fallback

A safe controller takes over if the AI fails



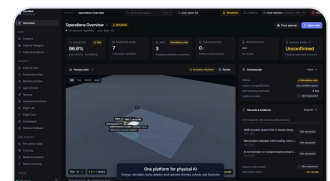
Test thousands of times

Pass rate, failure modes, worst cases



Releases and OTA

Ship better models, roll back automatically



Operations overview

KPIs, twin and hazards in one view

What makes us different

End to end

Flight, detection, location, work order and report in one product.

Engineer in control

AI suggests; people decide. Every approval is named and recorded.

Tested before it flies

A real autopilot flies a digital copy of your site first.

Learns rare defects

Realistic training images of defects that are rare in real life.

Built for India

Broad gauge, chainage, Indian drones, data on your own servers.

Honest results

We always say what was simulated and what was field-tested.

Results so far

16 of 17

track defects found on an unseen corridor, no false alarms

100%

of sleepers photographed

87 / 87

injected safety faults blocked in factory tests

24 h

unattended factory run, zero unsafe actions

Please note: these results come from simulation, not a live site, and are not a safety certification. Accuracy on real-world images is still being improved, so every engagement starts with a supervised pilot.

A 6-week supervised pilot

WEEKS 1-2

Set up

One short section. We build its digital copy and agree what counts as a defect.

WEEKS 3-4

Fly and compare

Supervised flights. Your inspectors check the same section the usual way.

WEEKS 5-6

Results

What the AI found and missed, time saved, and a rollout plan.

See it on your own site

sales@devheallabs.com · devheallabs.com/contact · IDA Mallapur, Hyderabad, India