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Industrial Orchestration Platform





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Microcontroller & IoT Nodes

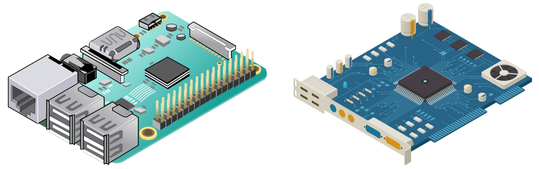
- Firmware
- Security
- Cloud Sync
- Protocols
- OTA
- Provisioning
- Data Acquisition Through Sensors
- Energy & Power Management
- Prototyping & circuit design, Component / Sensor Selection



Wireless / Wired IoT Sensors

WiFi
Thread
Sub-1GHz
Sub-1 GHz
Matter
BLE
Zigbee
LoRa
LoRaWAN
Modbus

Edge Gateways & SBC



- Embedded Linux - Yocto, Buildroot & Custom Linux Porting
- Bootloader(Uboot), Kernel, Device Drivers
- Secure Boot, Verified Boot, Device Mapper, Verity, Disk Encryption
- Hardware Security Modules, eFuses and OTP (One Time Programmable) NV Memory
- A/B OTA Updates - Mender, RAUC
- Toolchain
- Board Bring Up

LTE
LTE
LAN
WiFi
NB-IoT
NB-IOT / Cat M1

Cloud





- Cloud Native
- Backend



- User Interface & Console

NXP, intel nuc, Rockchip, Broadcom, Texas Instruments, Silicon Labs, Espressif, ST, Microchip, Nordic Semiconductor, aws, Google Cloud, Microsoft Azure

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The Problem

- Operational Inefficiency
- No Predictive Maintenance
- Downtime & Delays
- Compliance & Safety
- Redundant Spend & Capital Waste



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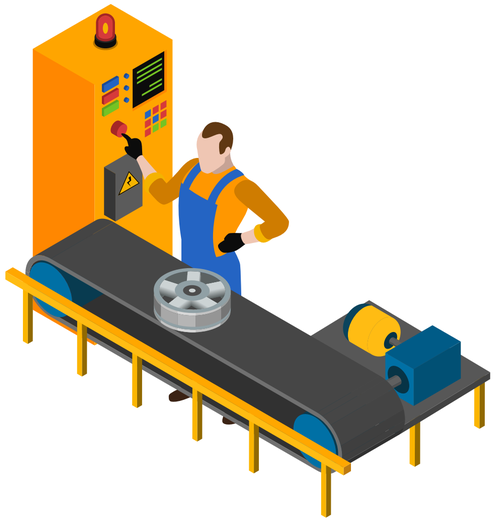
Car manufacturing process

SYTRAK

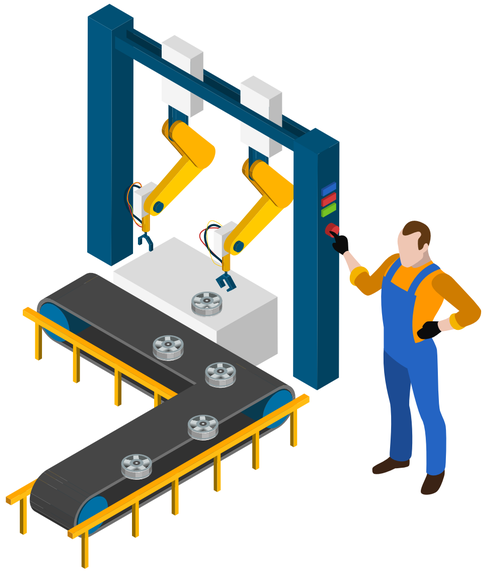
Material Received & Inspected
Delay
1 min



Material Loaded for Processing
Delay
1 min



Automated Part Assembly
Delay
45 secs



Final Vehicle Assembly & Quality Check
Delay
1 min



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Solutions

- Process audits to identify gaps & implement trigger mechanisms
- Efficient & repetitive training for mitigation
- Pinpoint visibility through dashboards & reporting
- Scheduled & predictive maintenance
- Geo-fencing
- Bio-sensing
- Reroute assets automatically



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Introducing SYTRAK

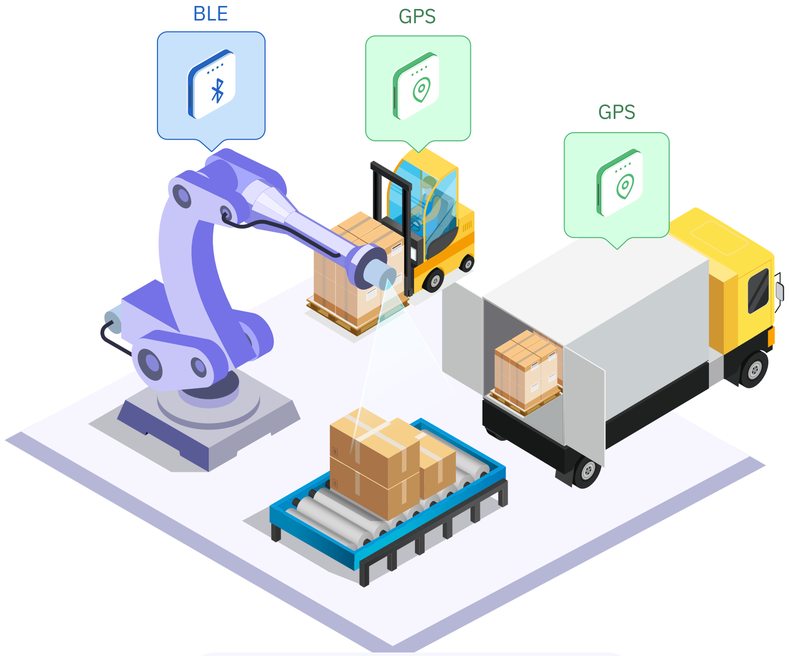
The Next Chapter in Industrial Intelligence -
A Real-Time Industrial Orchestration Platform

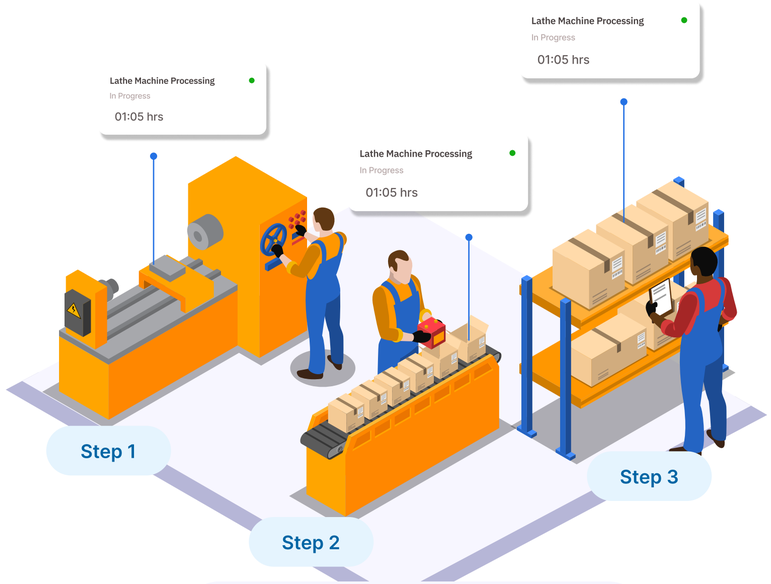
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From Blind Spots to Orchestration

Without orchestration, decisions are delayed, productivity drops, and risks rise.

SYTRAK Orchestrates and Optimizes by - **Indoor + Outdoor tracking, Smart Logic + Workflows and One unified Dashboard**.





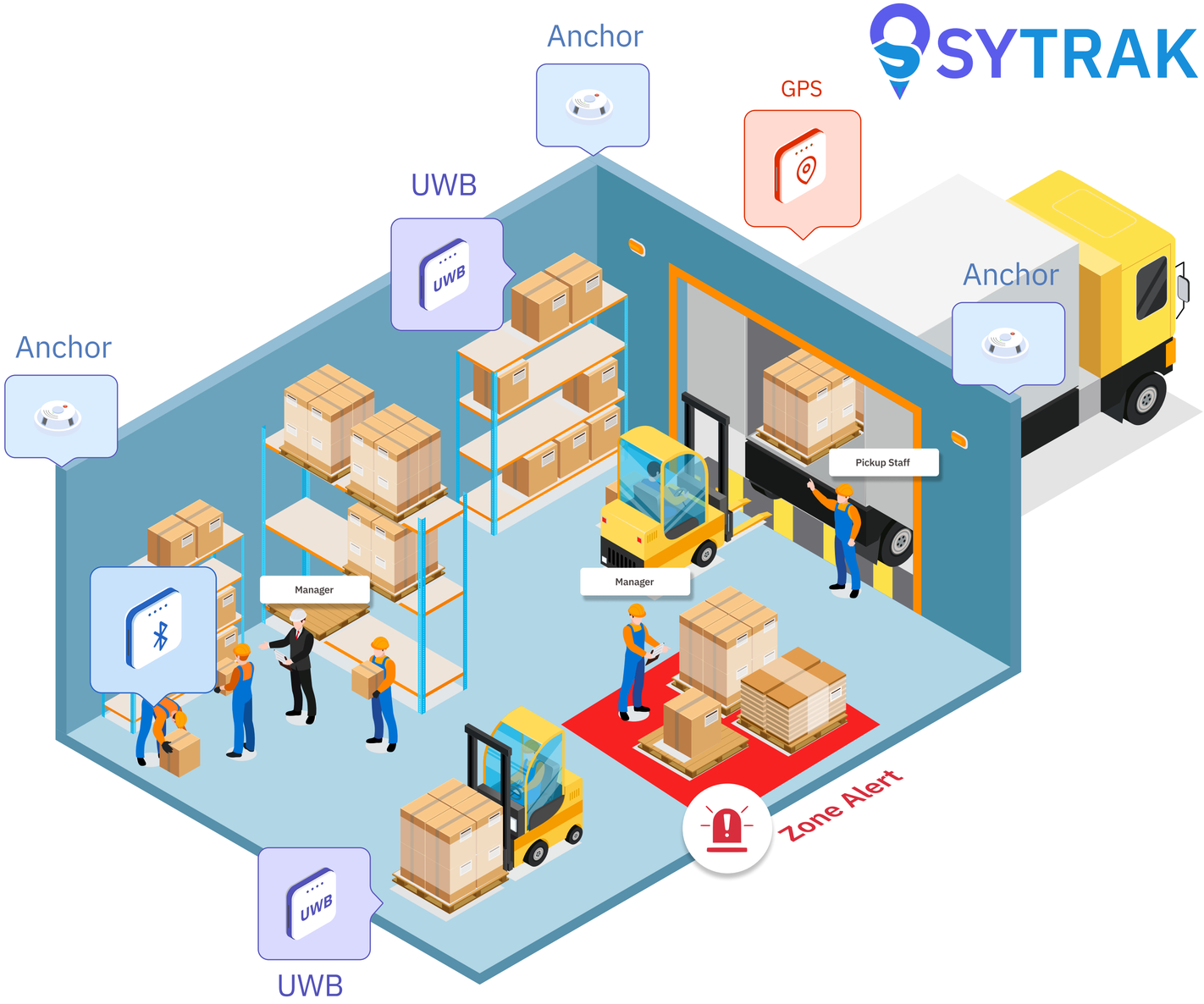


Indoor + outdoor tracking — Smart Logic + workflows — One unified dashboard

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What Makes SYTRAK Powerful

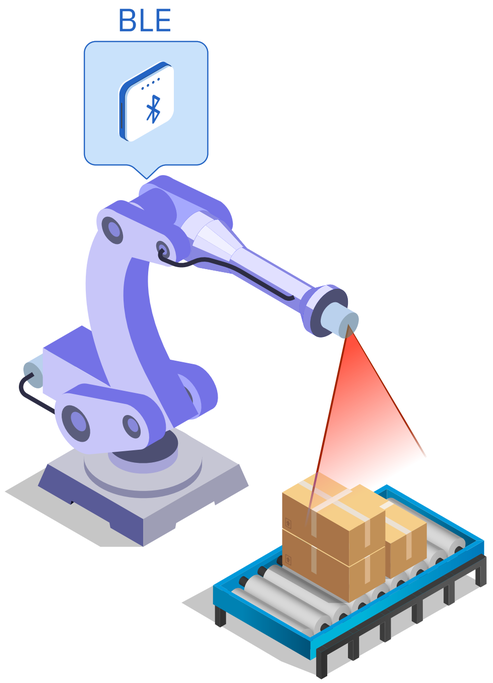
- Live Tracking
- Geofencing & Smart Alerts
- Orchestration Engine
- Dashboards, Reports & Insights
- Role-Based Access
- Modular Scale



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Live Tracking

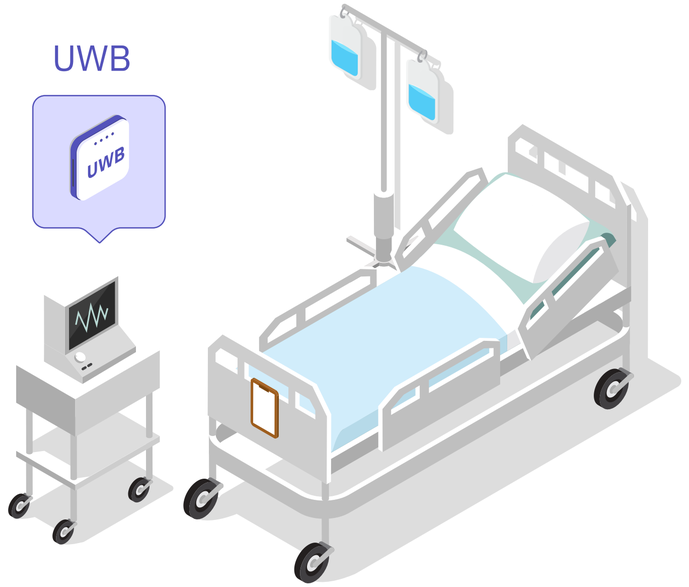
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Indoor Tracking

Manufacturing

WIP and operator presence



Indoor Tracking

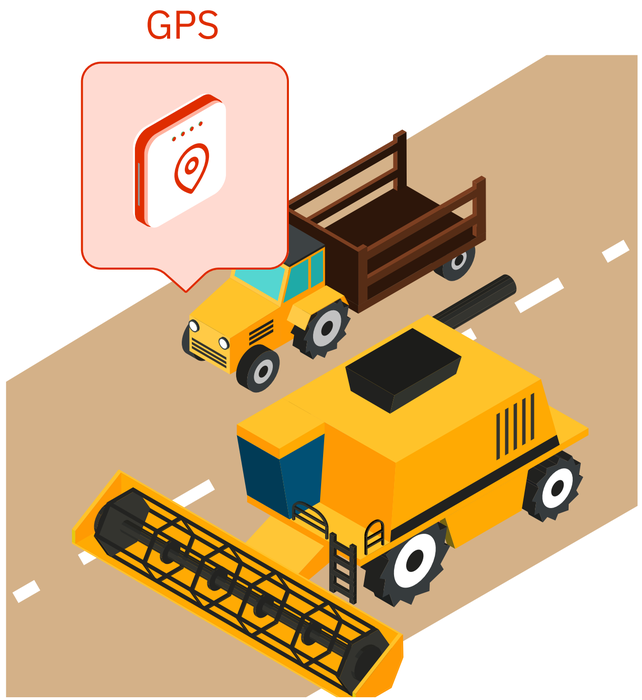
Healthcare

Real-time location of critical tools

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Live Tracking

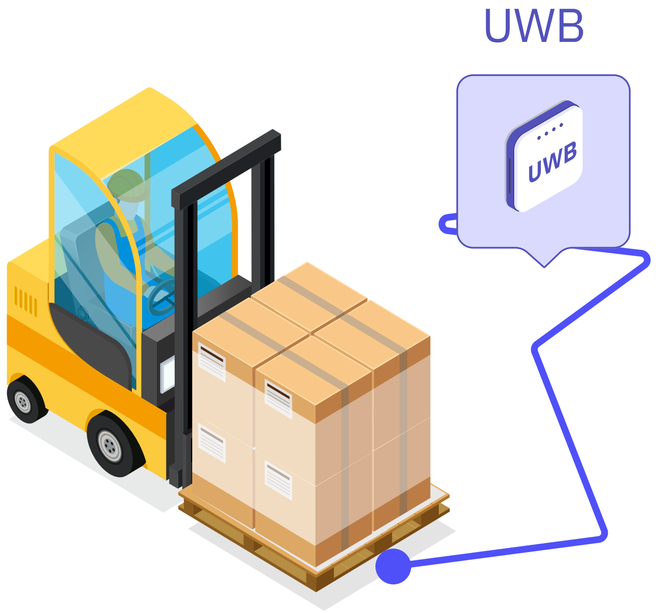
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Outdoor Tracking

Agriculture

Movement history of tractors



Indoor Tracking

Warehouse

Wayfinding

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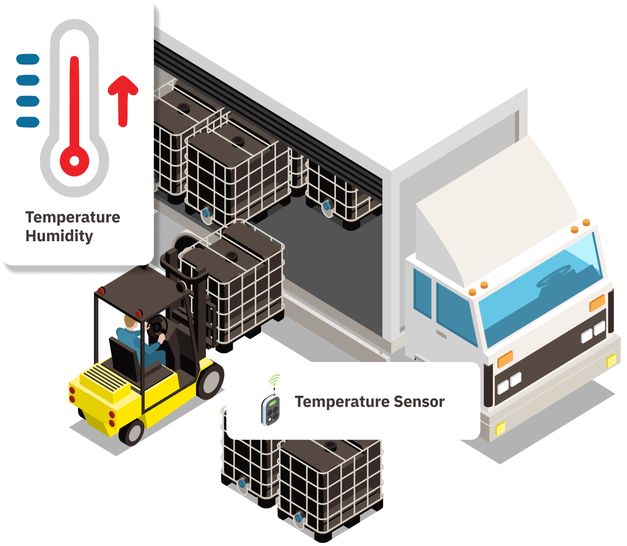
Geofencing & Smart Alerts

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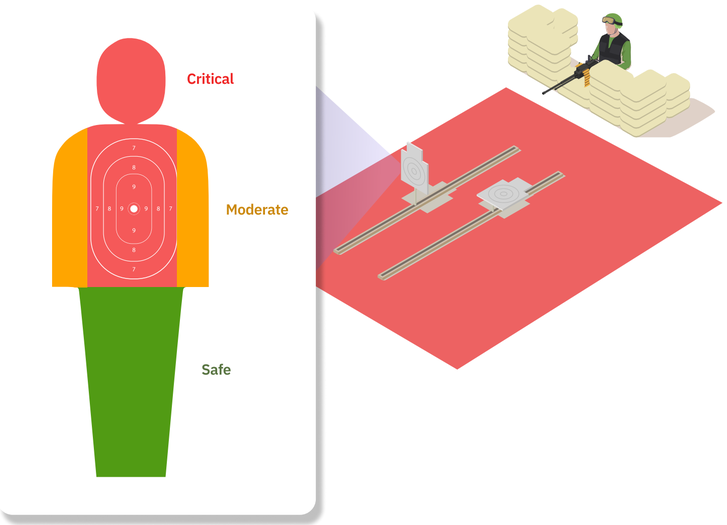
Construction

Hazardous zone entry alerts



Logistics

Cold chain breach notifications



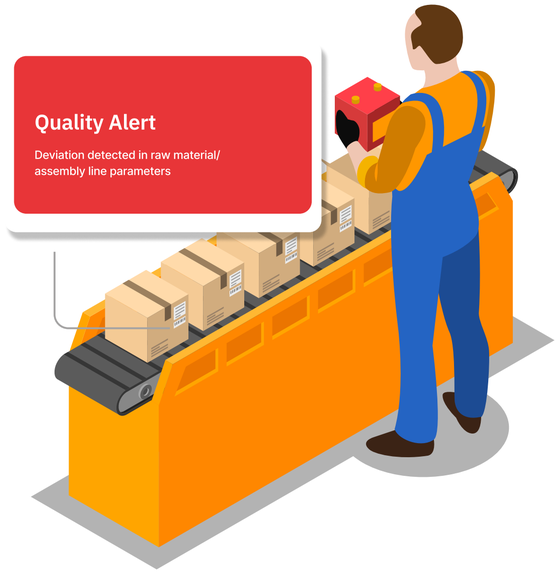
Defence

Geofence breach alerts during situational awareness training

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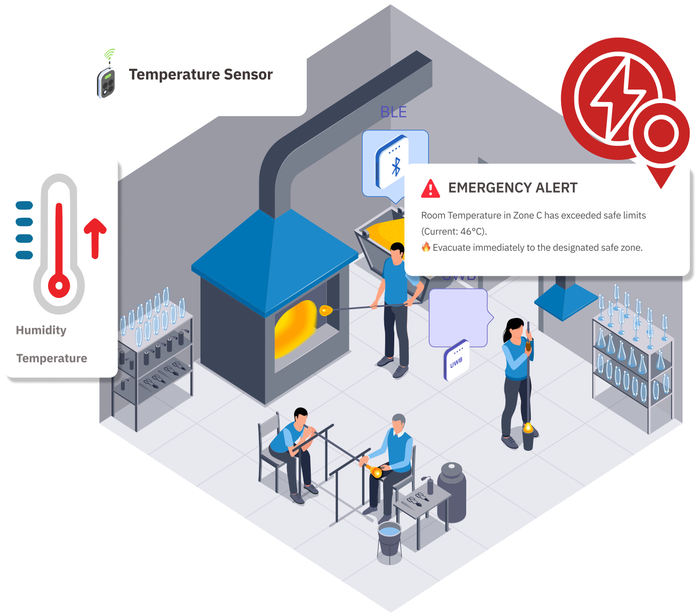
Orchestration and Rule Engine

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Automotive

Quality triggers on raw materials and assembly lines



Utilities

Entry time alert in high-voltage zones



Warehousing

Automated platform sync with WMS systems

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Reports & Insights

Manufacturing

Idle time and operator productivity



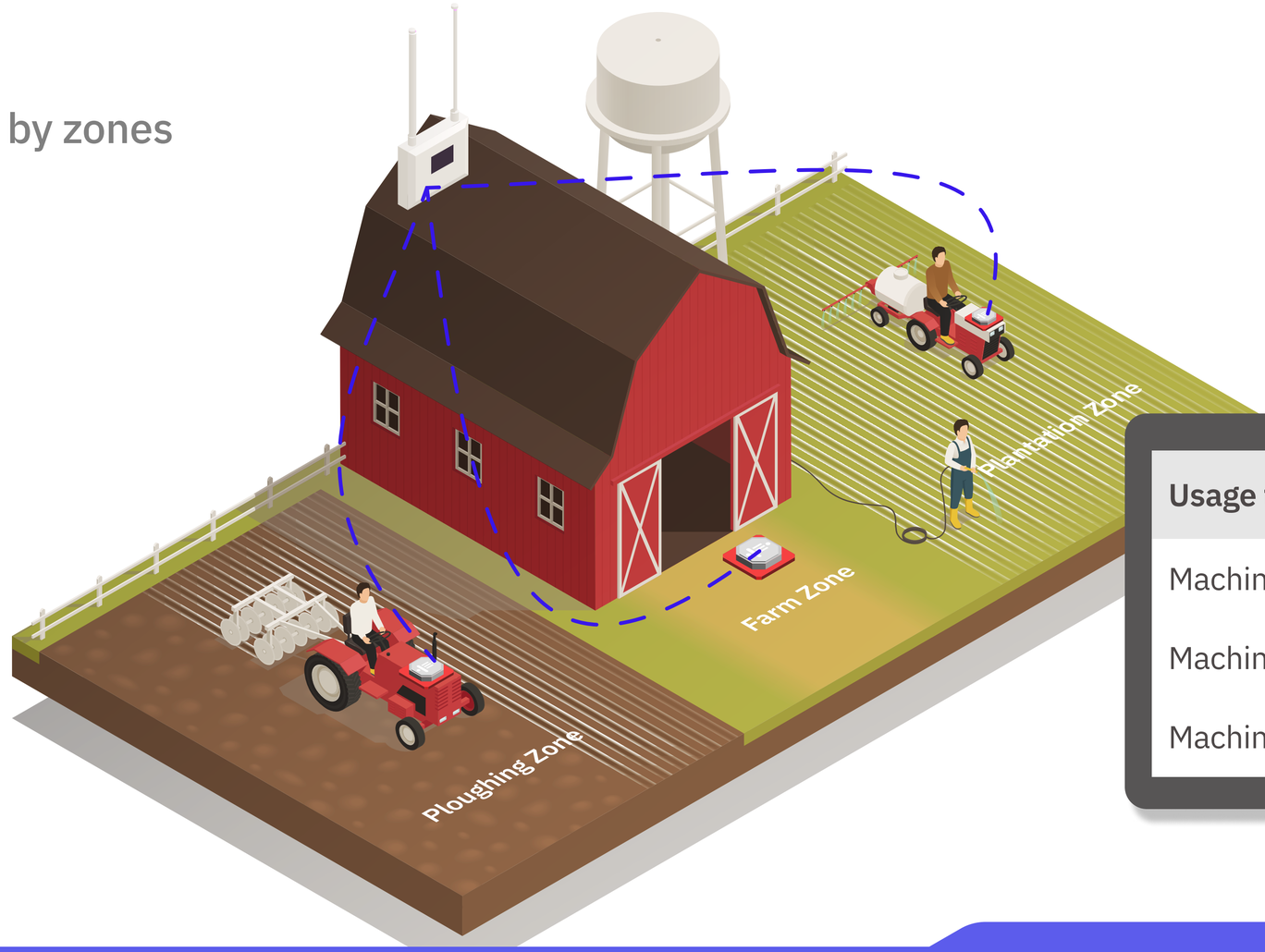
Zone List	Time
Machine 1	00:06:10
Machine 2	00:11:10
Machine 3	00:09:10
Machine 4	00:54:10

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Reports & Insights

Agriculture

Equipment usage by zones



Usage time	Zones	Idle time
Machine 1	**Ploughing Zone**	**00:06:10**
Machine 2	**Farm Zone**	**00:11:10**
Machine 3	**Plantation Zone**	**00:09:10**

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Reports & Insights

Safety

Risk-prone zones



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Role-Based Access

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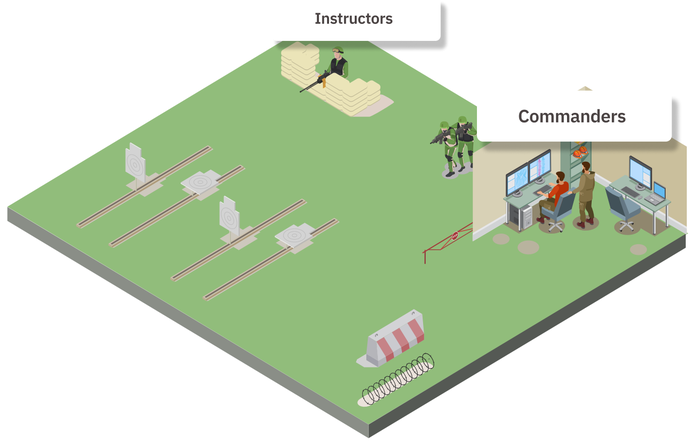
Hospitals

Staff or facility managers



Construction

Safety officers or site managers



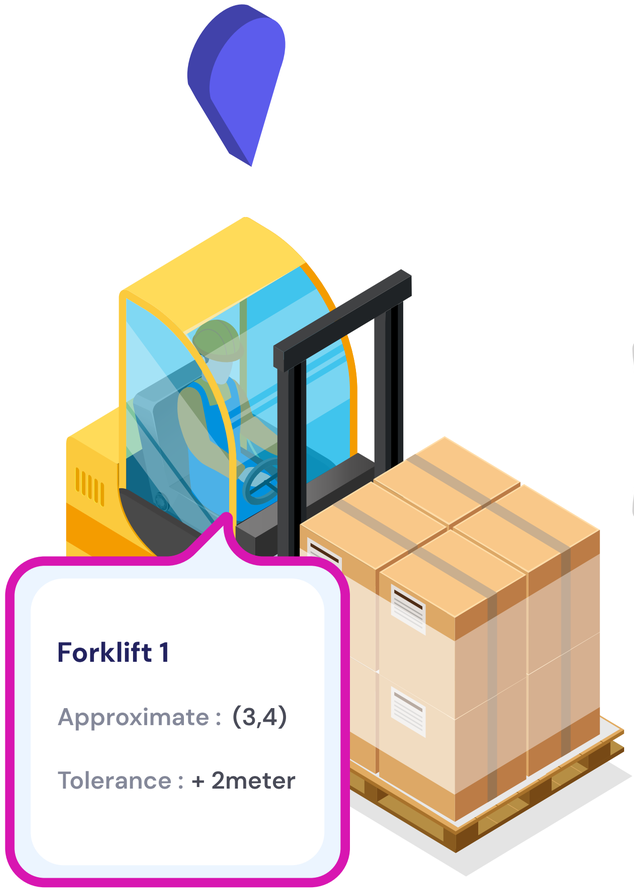
Defence

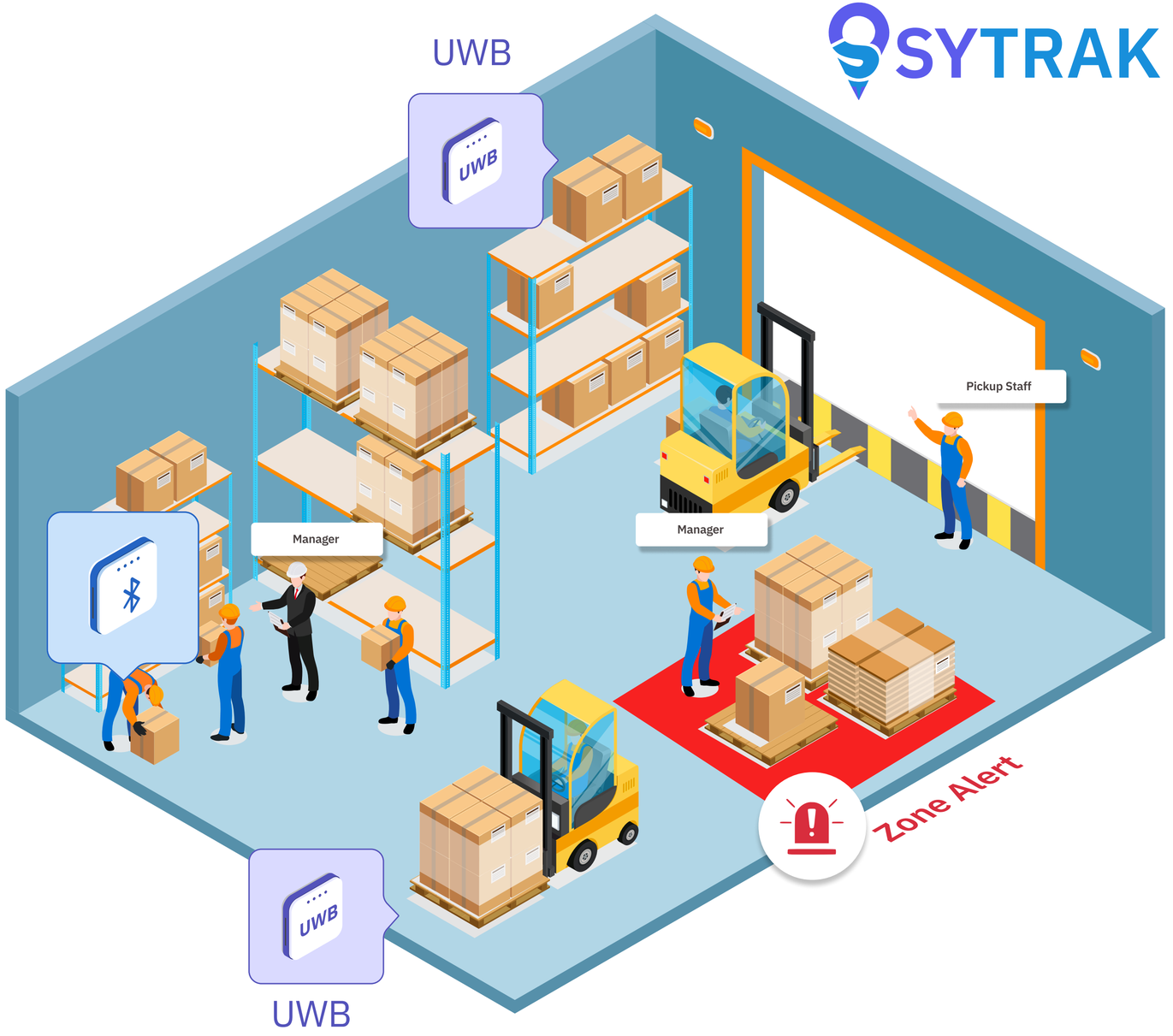
Commanders or instructors

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Modular Scale

Start with forklifts,
scale to site-wide orchestration.





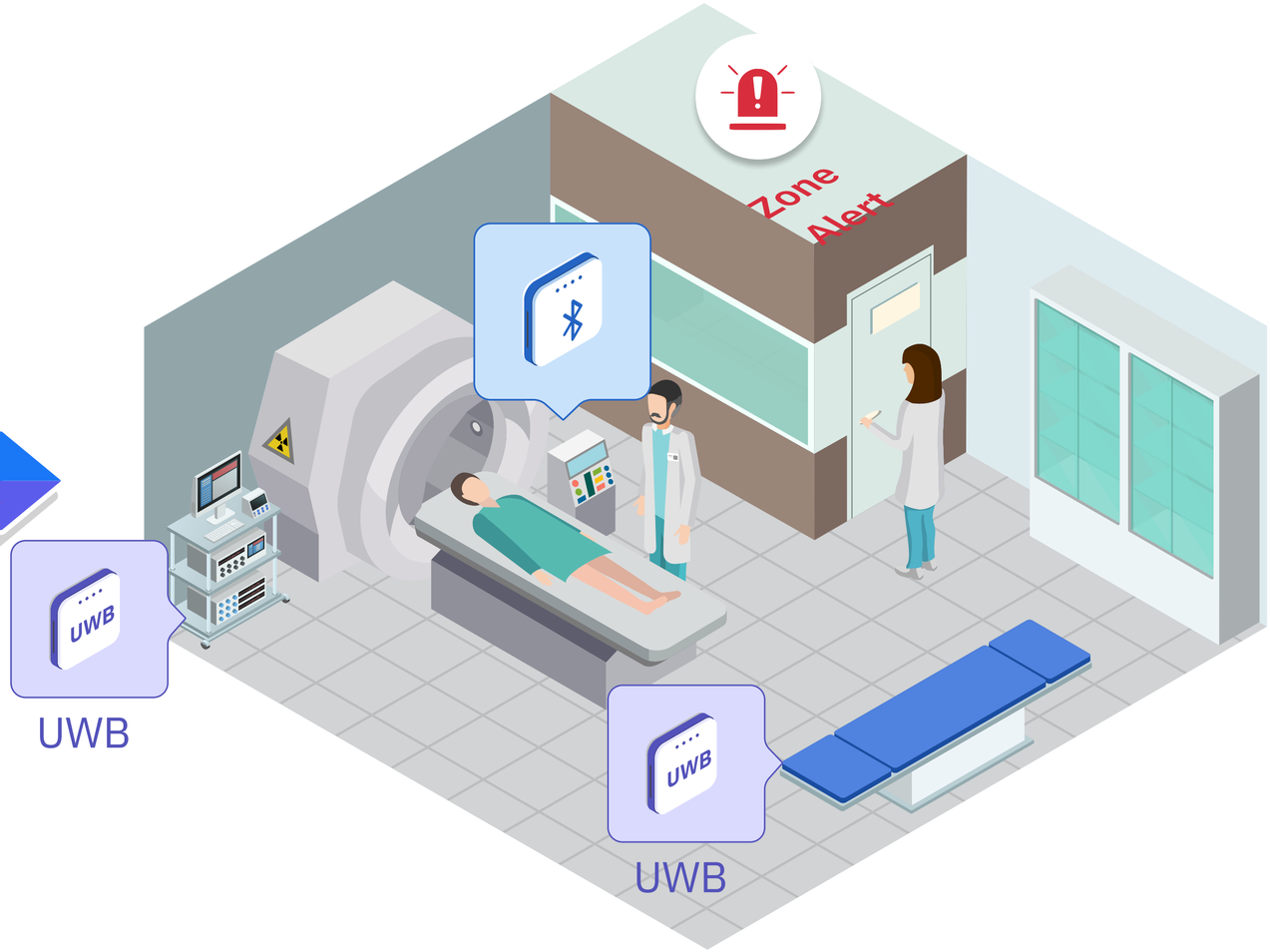
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Modular Scale

Begin with pilot assets, expand across all mobile equipment



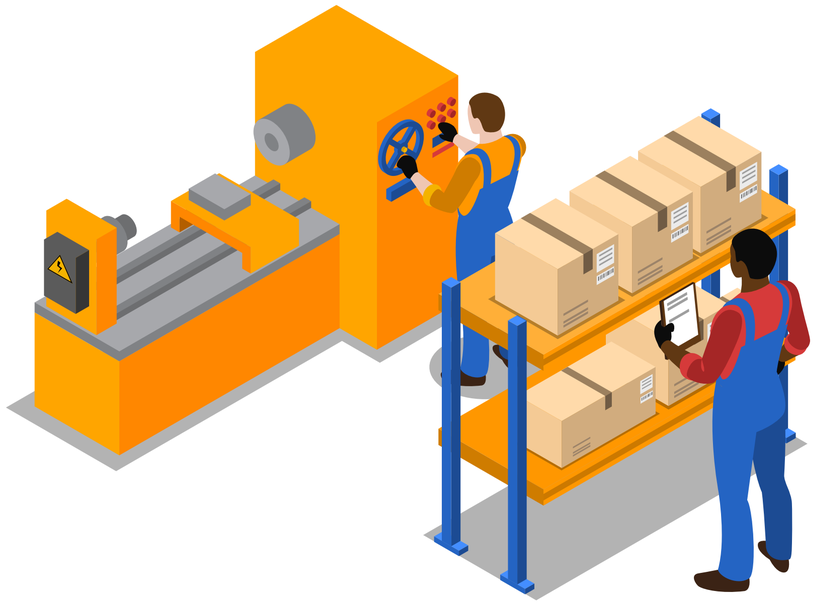


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Modular Scale

Monitor a few machines, grow to full utility

Zone List	Time
Machine 1	00:06:10
Machine 2	00:11:10
Machine 3	00:09:10
Machine 4	00:54:10





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Beyond Tracking → Toward Orchestration

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SyTrak Solution

UWB-Based Real-Time Tracking

Traditional Way

Location-only visibility

SyTrak Solution

AI-Enabled Predictive Maintenance

Traditional Way

Disconnected from workflows

SyTrak Solution

Built-in orchestration engine

Traditional Way

No decision logic

SyTrak Solution

Acts on its own: triggers alerts, escalates, re-routes

Traditional Way

Feed only to external systems

SyTrak Solution

Seamless indoor to outdoor tracking

Traditional Way

Limited indoor to outdoor transition

SyTrak Solution

Smart alerts and response

Traditional Way

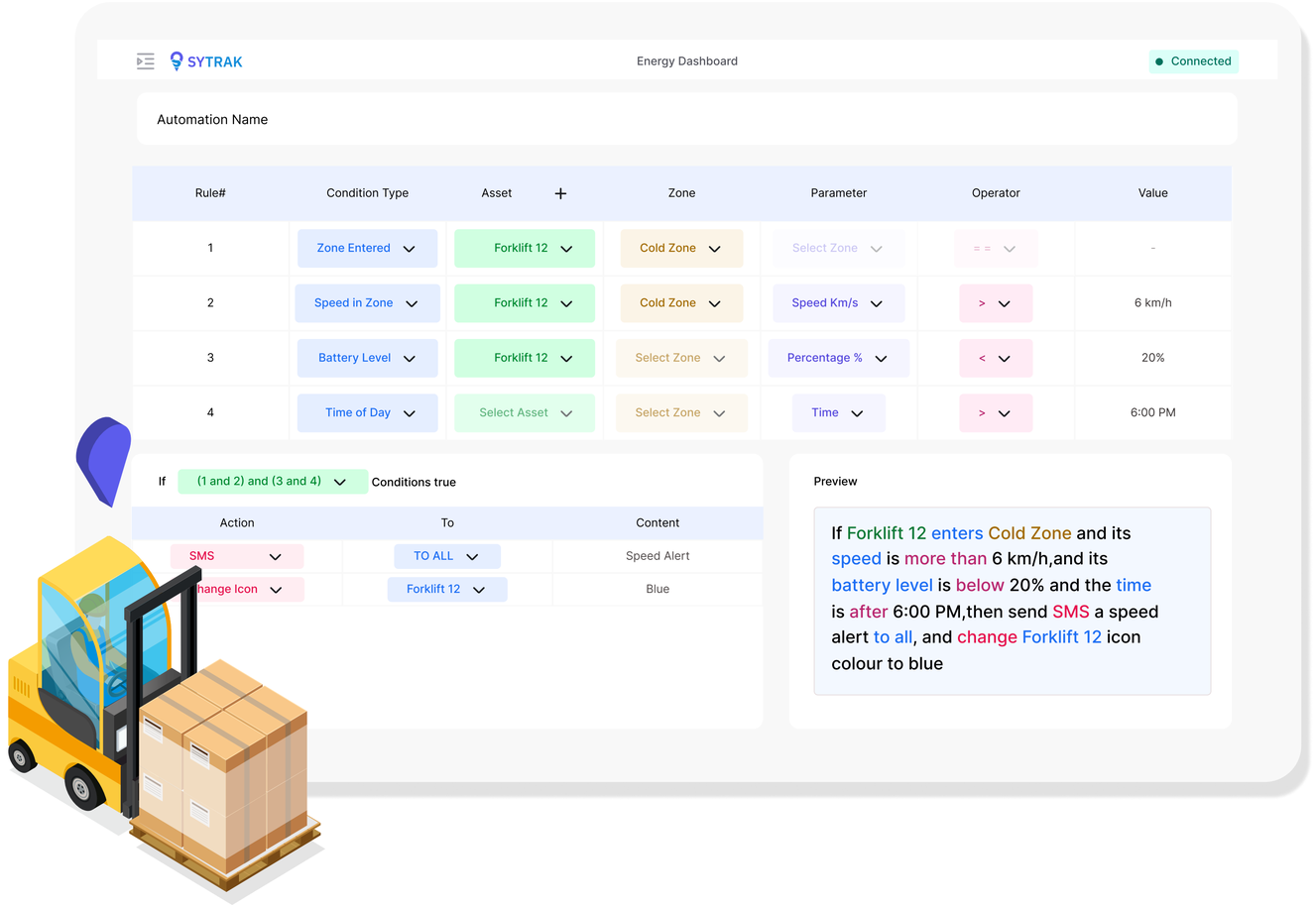
Manual monitoring

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SYTRAK & Industry 4.0

It turns physical operations into smart, responsive systems — ready for;

- Predictive Maintenance
- Automated Workflows
- Digital Twins
- Intelligent upkeeping
- Simulate, monitor & respond in real time
- Works with your current systems (ERP, WMS, SCADA) — no replacements



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From Sensing to Action

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Sense

Tags and sensors collect real-time data

Process

Cloud platform maps, analyzes and detects events

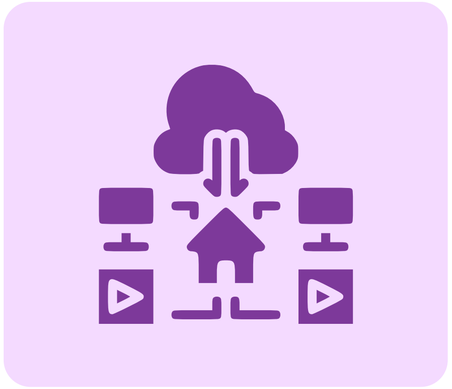
Act

System triggers alerts, automates tasks and provides analytics to help teams respond or gain efficiency.

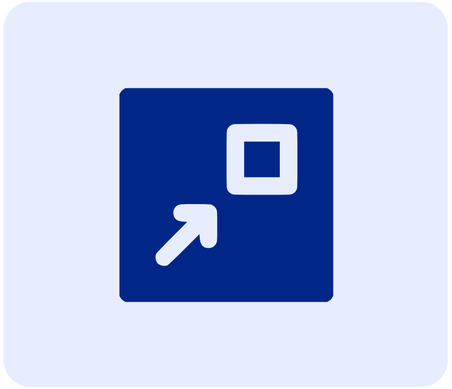
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Ready to Orchestrate?

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Plug-and-play deployment



Start small or scale big



Schedule a free consultation today

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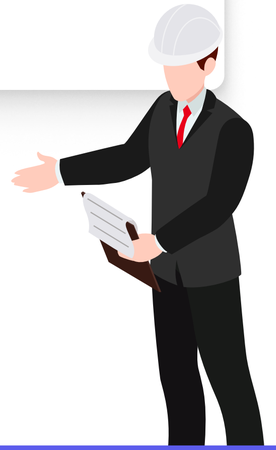
Industrial Orchestration Platform

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Mission

We aim to bring operational intelligence to the physical world.
To make coordination effortless, decision-making real-time and visibility universal.





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Thank You

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