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Microcontroller & IoT Nodes

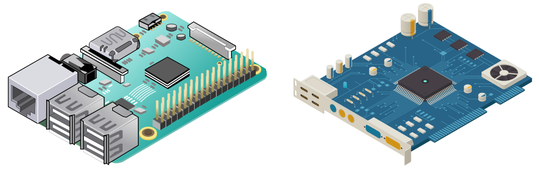
- Firmware
- Security
- Cloud Sync
- Protocols
- OTA
- Provisioning
- Data Acquisition Through Sensors
- Energy & Power Management
- Prototyping & circuit design, Component / Sensor Selection



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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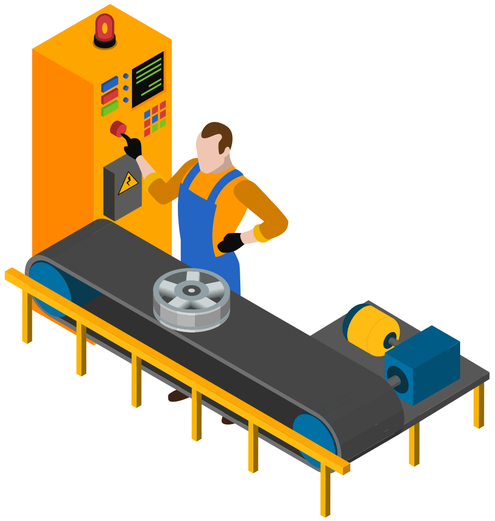
Car manufacturing process

SYTRAK RTLS

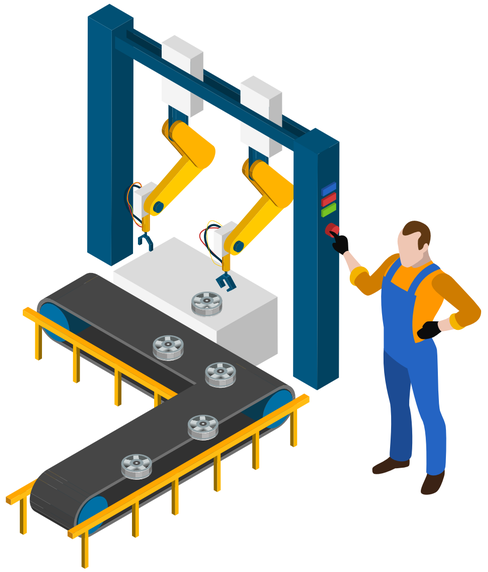
Material Received & Inspected
Delay
1 min



Material Loaded for Processing
Delay
1 min



Automated Part Assembly
Delay
45 secs



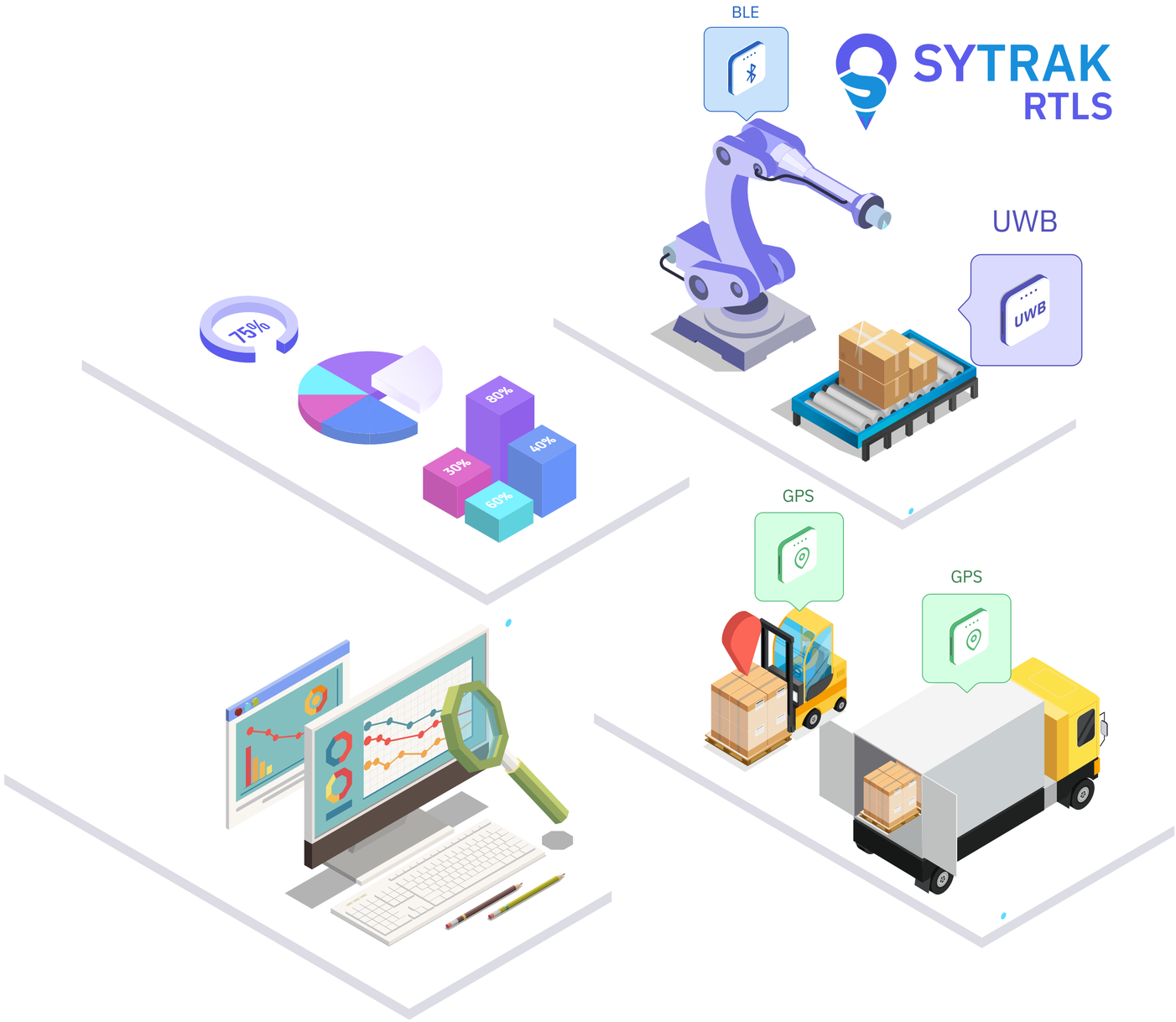
Final Vehicle Assembly & Quality Check
Delay
1 min



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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 RTLS

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

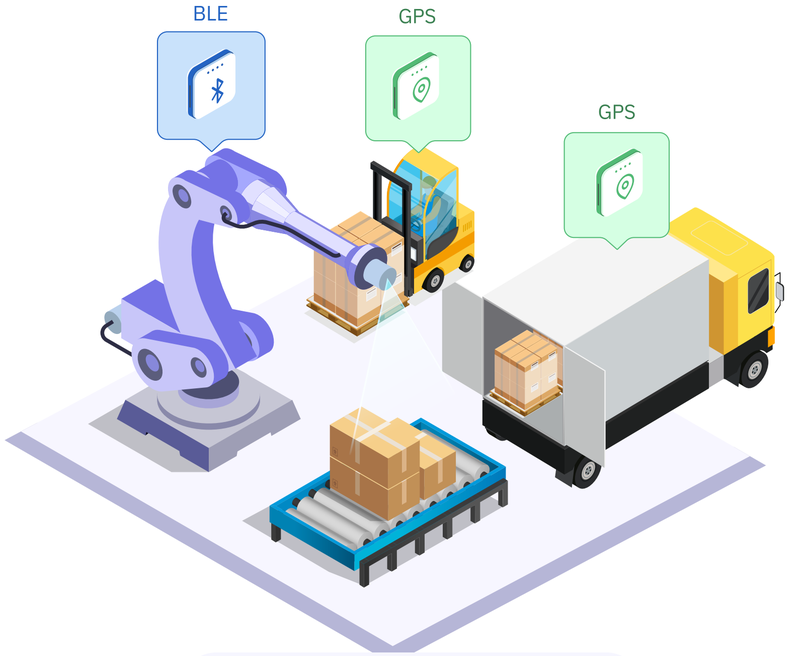
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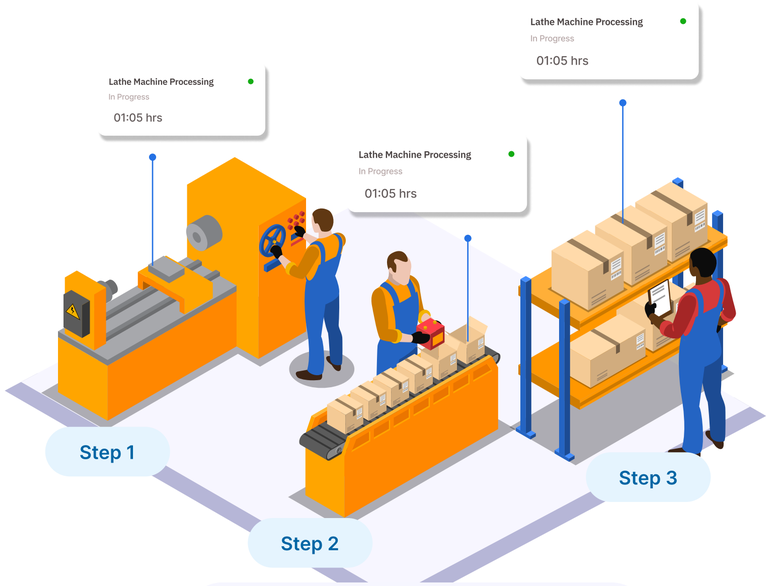
From Blind Spots to Orchestration

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

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





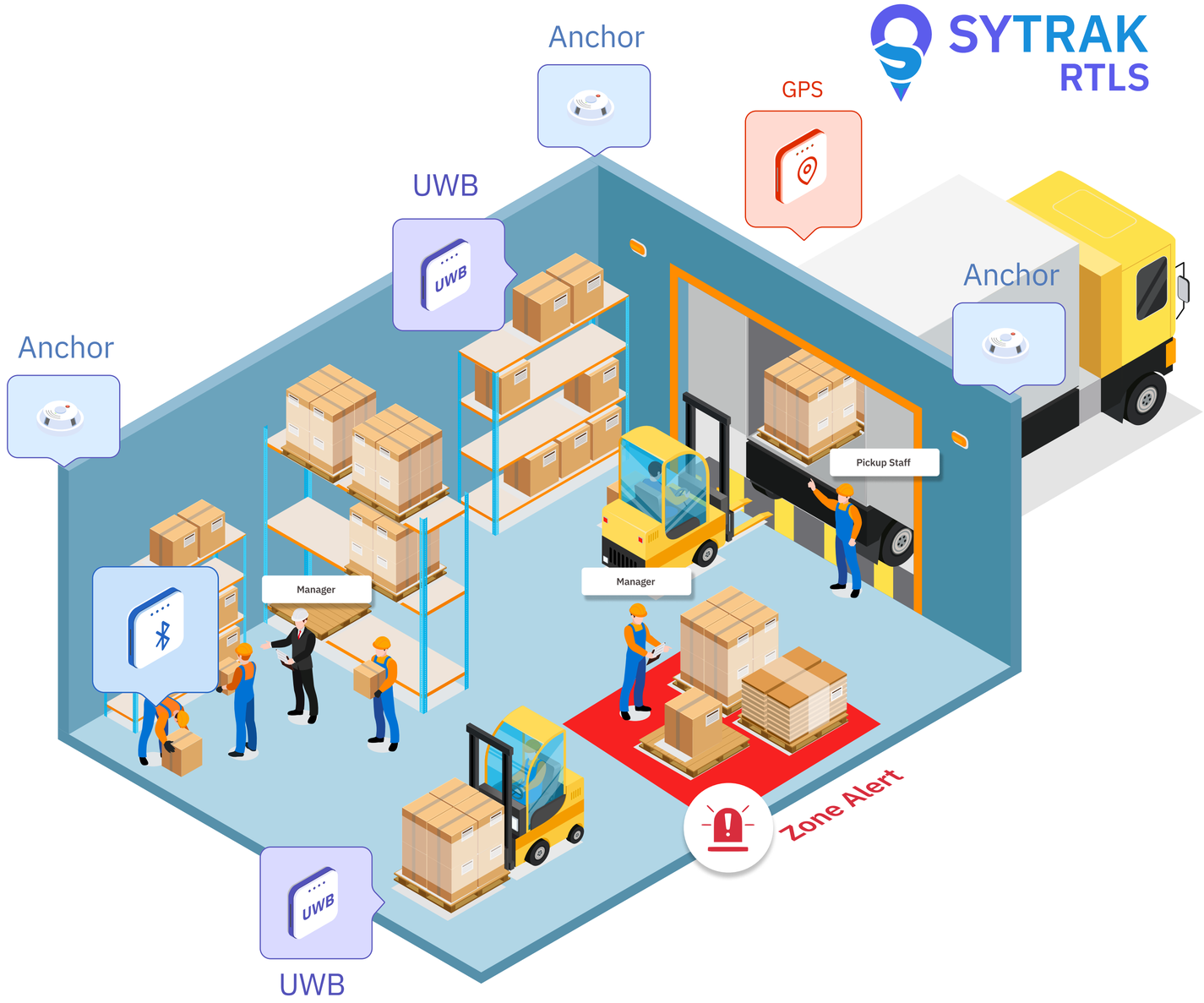


Indoor + outdoor tracking — Smart Logic + workflows — One unified dashboard

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What Makes SYTRAK RTLS Powerful

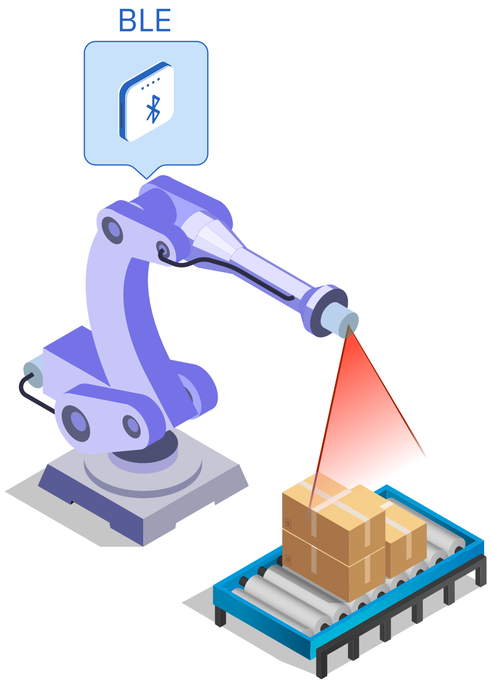
- Live Tracking
- Geofencing & Smart Alerts
- Orchestration Engine
- Dashboards, Reports & Insights
- Role-Based Access
- Modular Scale



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Live Tracking

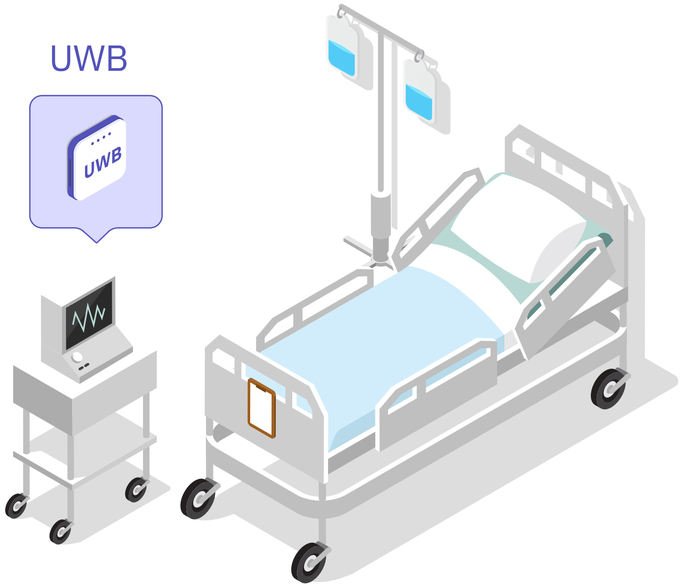
SYTRAK RTLS



Indoor Tracking

Manufacturing

WIP and operator presence



Indoor Tracking

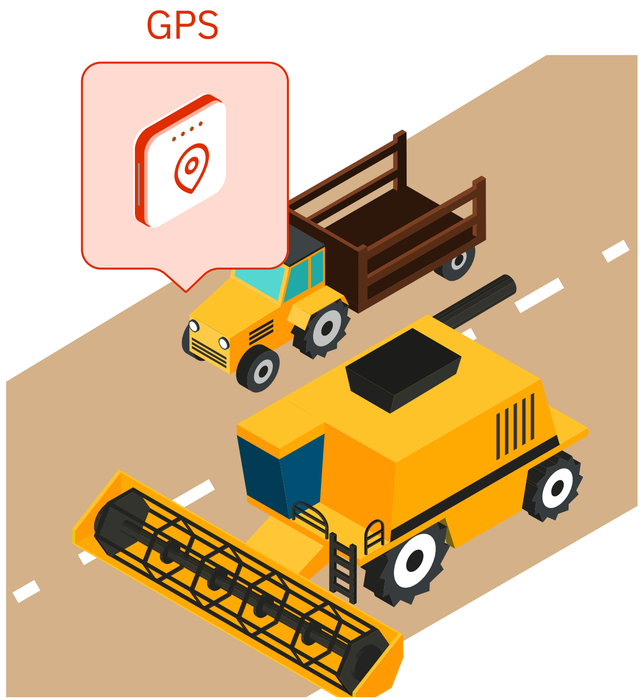
Healthcare

Real-time location of critical tools

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Live Tracking

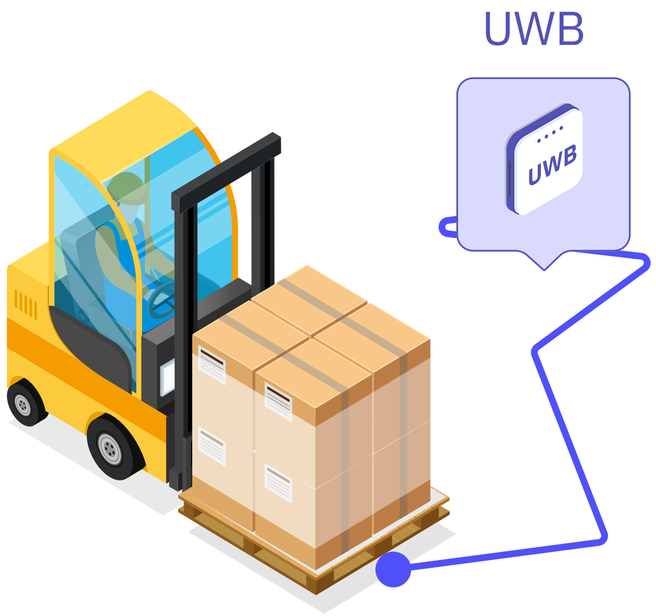
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Outdoor Tracking

Agriculture

Movement history of tractors



Indoor Tracking

Warehouse

Wayfinding

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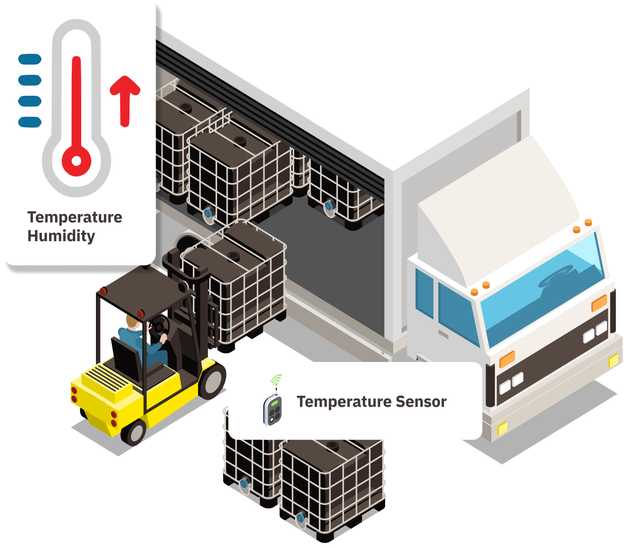
Geofencing & Smart Alerts

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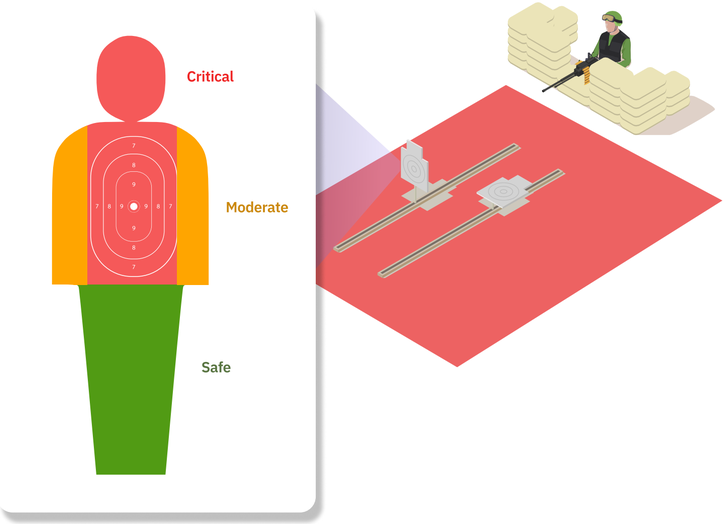
Construction

Hazardous zone entry alerts



Logistics

Cold chain breach notifications



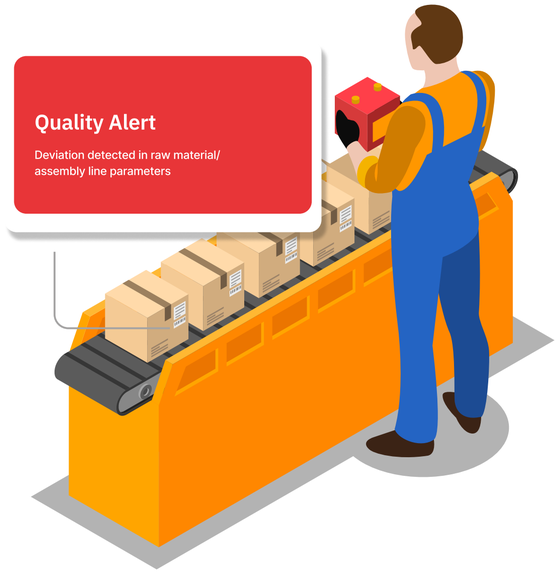
Defence

Geofence breach alerts during situational awareness training

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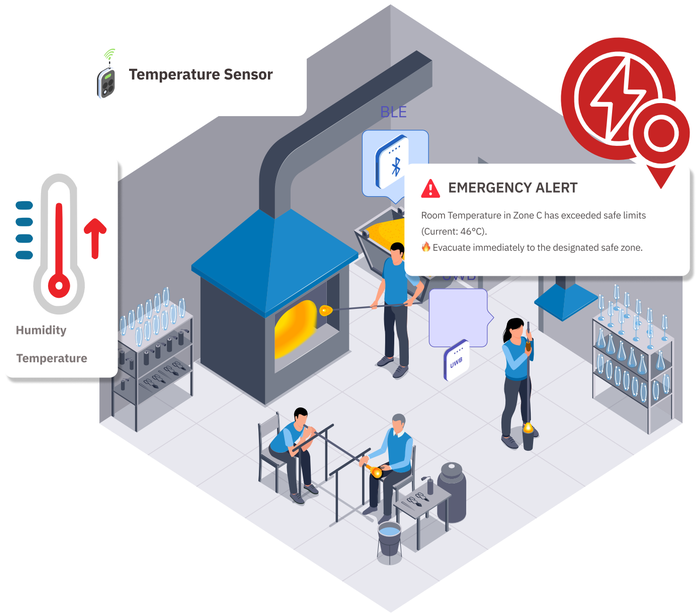
Orchestration and Rule Engine

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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

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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

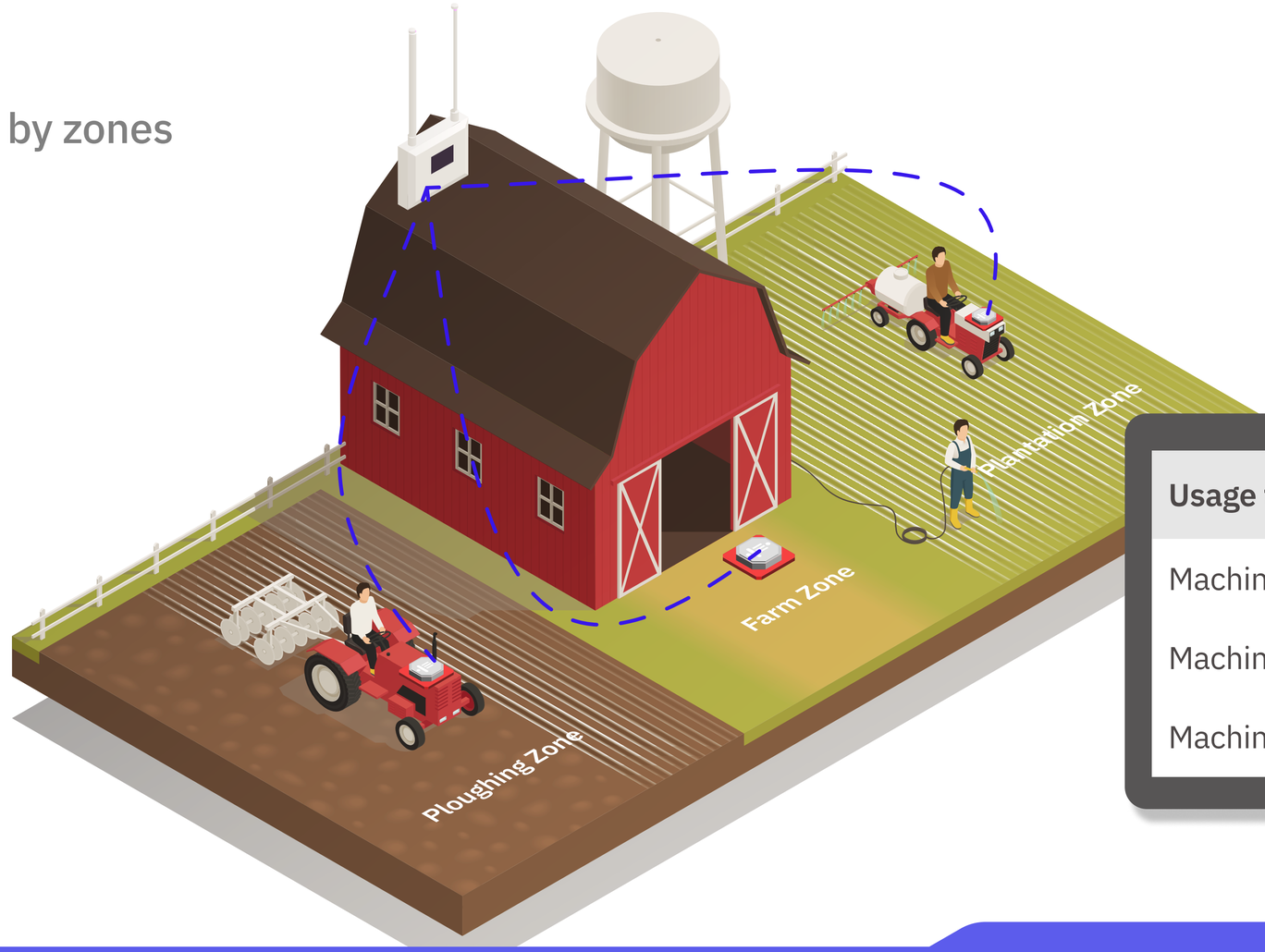
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Reports & Insights

SYTRAK RTLS

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

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Safety

Risk-prone zones



Role-Based Access

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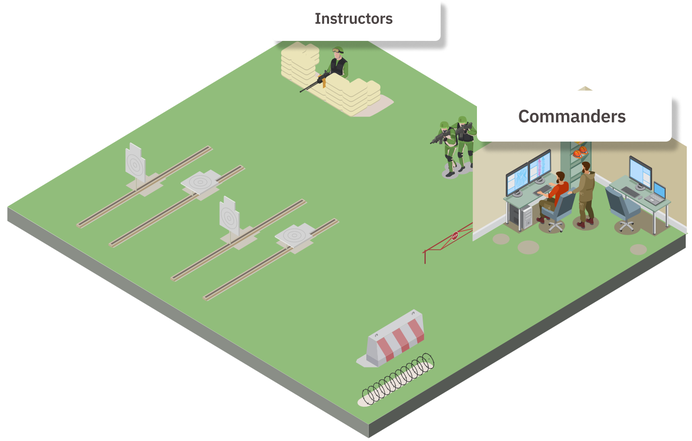
Hospitals

Staff or facility managers



Construction

Safety officers or site managers



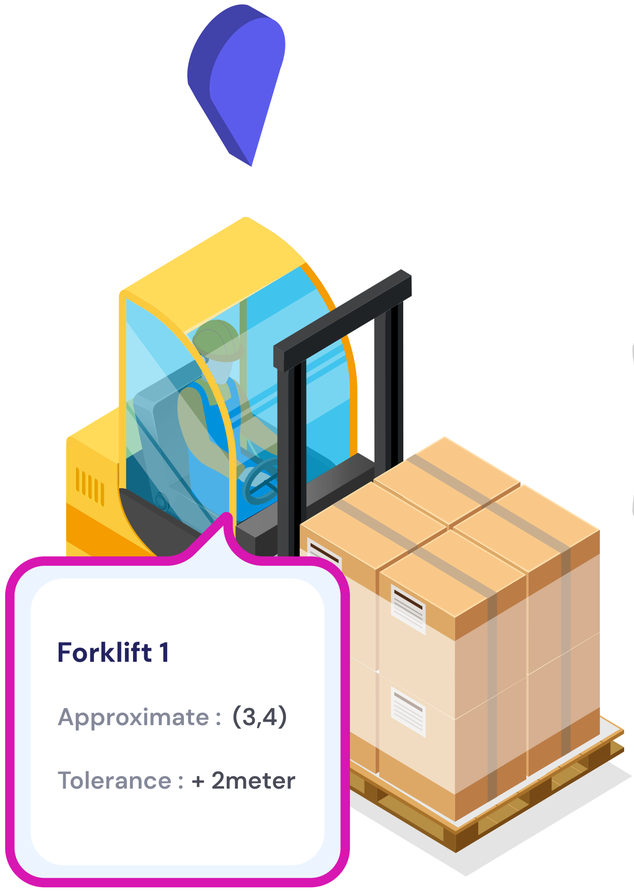
Defence

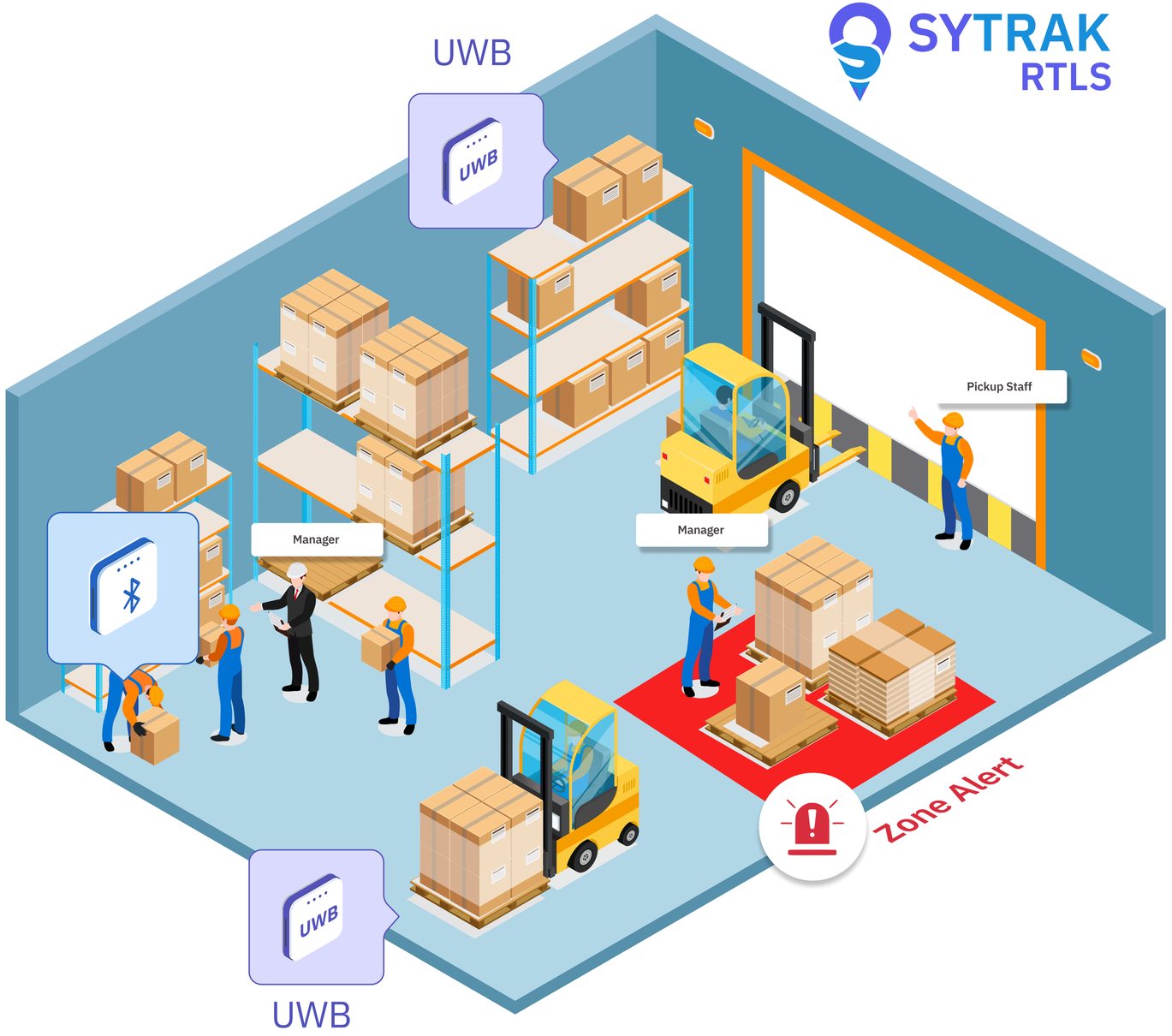
Commanders or instructors

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Modular Scale

Start with forklifts,
scale to site-wide orchestration.





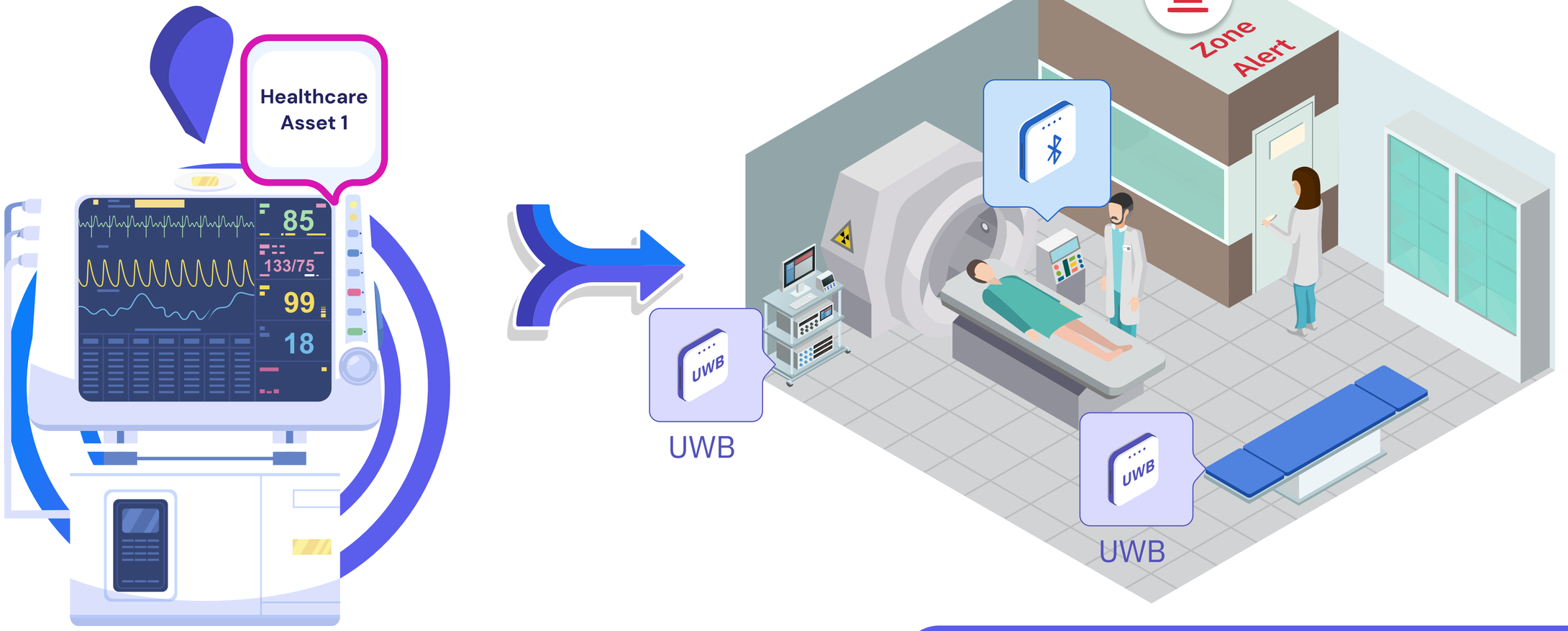
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Modular Scale

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Begin with pilot assets, expand across all mobile equipment



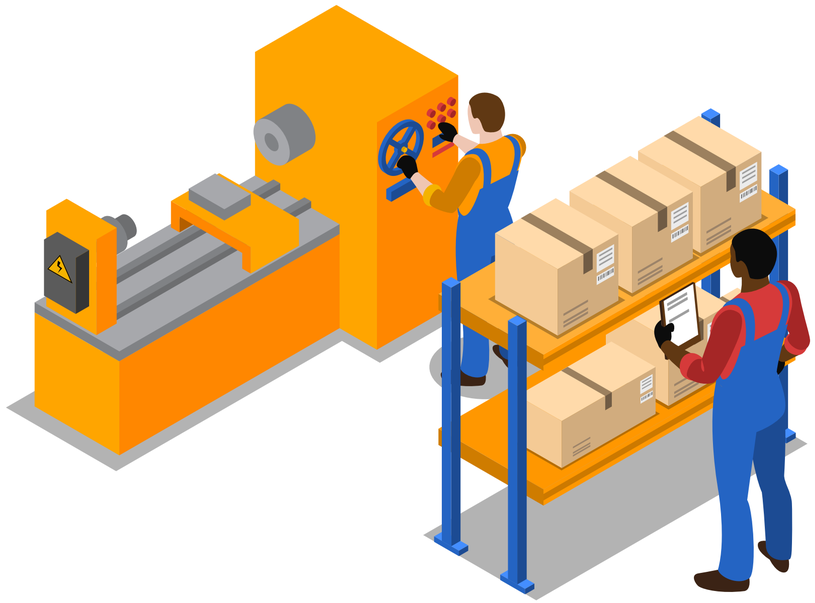
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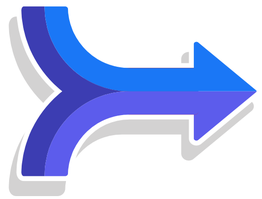
Modular Scale

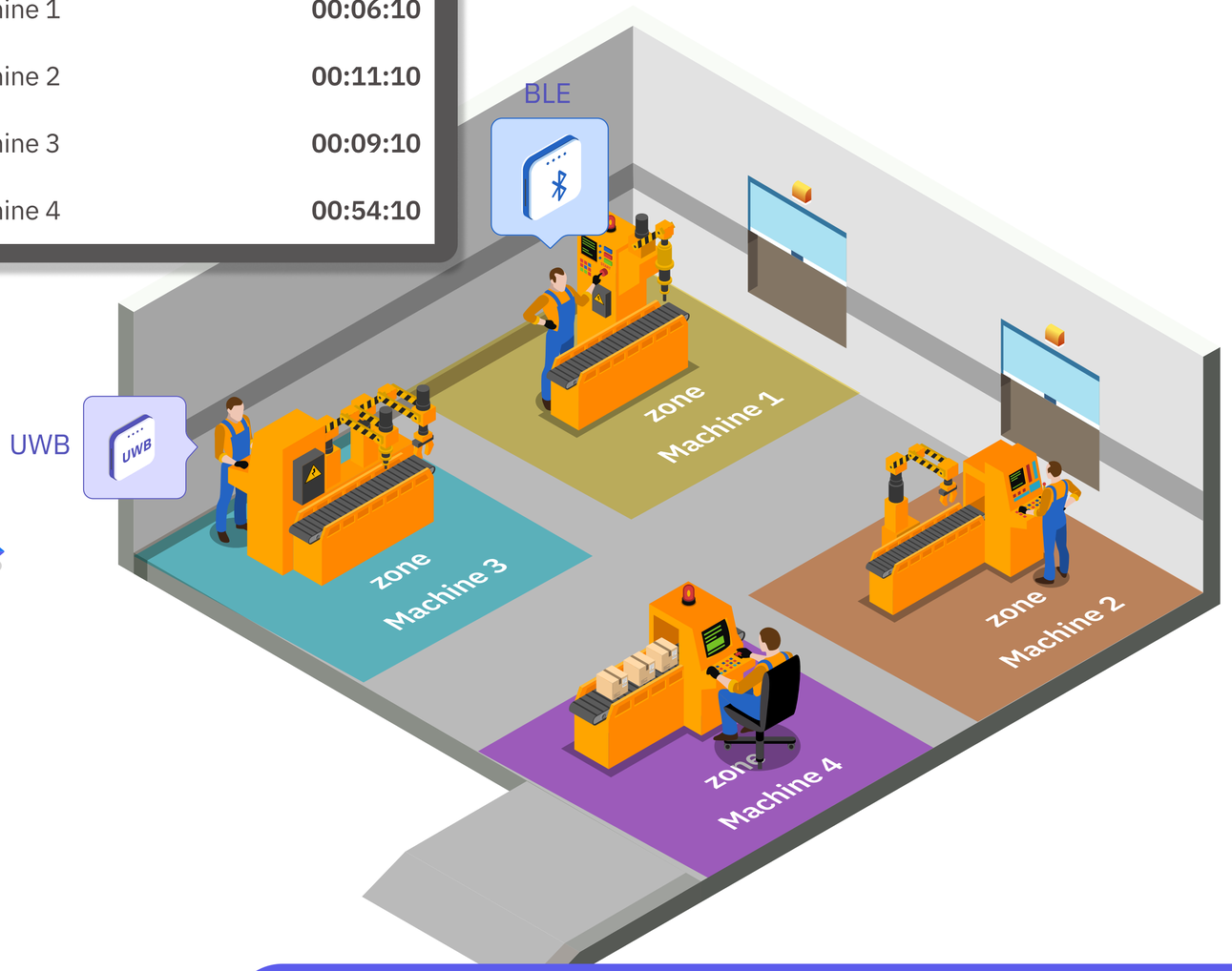
Monitor a few machines, grow to full utility

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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 RTLS Solution

UWB-Based Real-Time Tracking



Traditional Way

Location-only visibility

SYTRAK RTLS Solution

AI-Enabled Predictive Maintenance



Traditional Way

Disconnected from workflows

SYTRAK RTLS Solution

Built-in orchestration engine



Traditional Way

No decision logic

SYTRAK RTLS Solution

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



Traditional Way

Feed only to external systems

SYTRAK RTLS Solution

Seamless indoor to outdoor tracking



Traditional Way

Limited indoor to outdoor transition

SYTRAK RTLS Solution

Smart alerts and response



Traditional Way

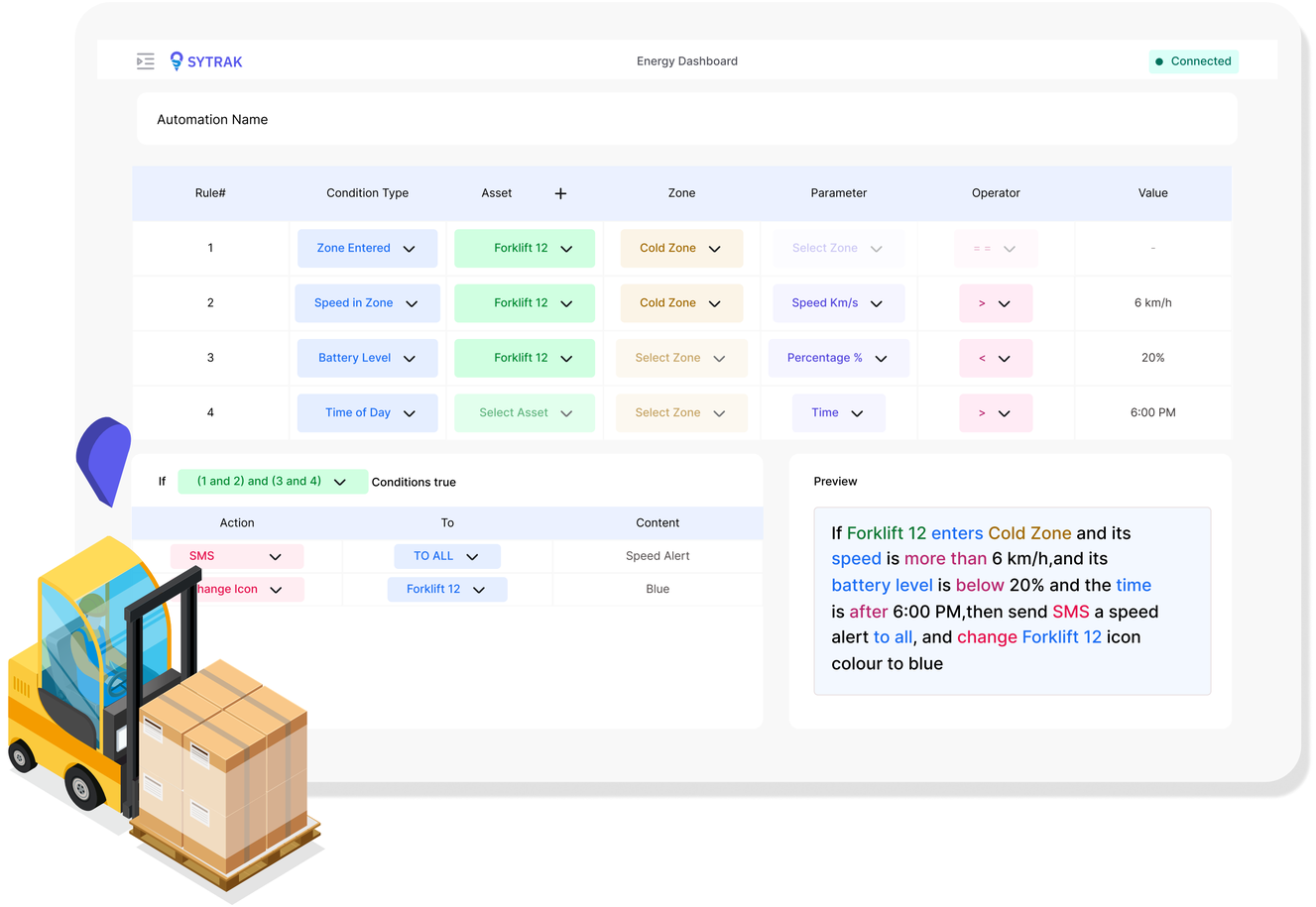
Manual monitoring

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SYTRAK RTLS & 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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DATA SECURITY



Sense

Tags and sensors collect real-time data

Process

Cloud platform maps, analyzes and detects events

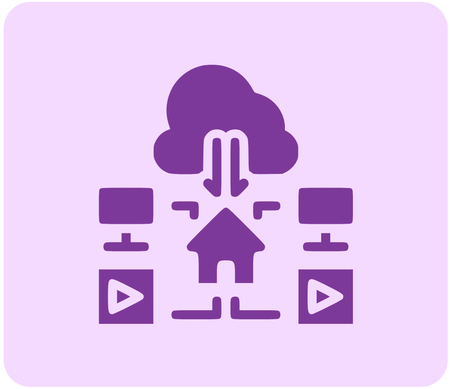
Act

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

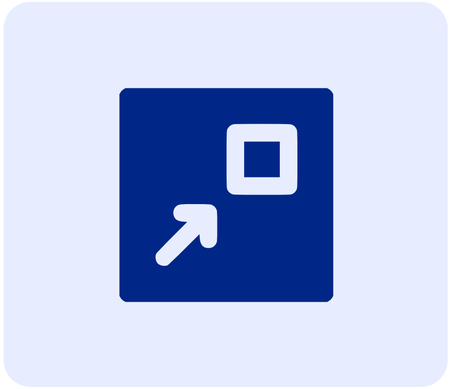
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Ready to Orchestrate?



Plug-and-play deployment



Start small or scale big



Schedule a free consultation today

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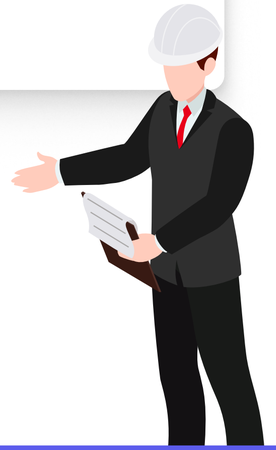
Industrial Orchestration Platform

SYTRAK RTLS

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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