

Smart Asset Management

Improve Asset Reliability, Availability,
Visibility and Costs!



Asset Management Challenges

- Do you know what assets you have, how many, and where they are in real-time?
- Do you have visibility of your asset utilization? Do you know which assets are idle?
- Do you know the true Total Cost of Ownership of your assets?
- Do you have full traceability of the chain-of-custody of your assets?
- Are you able to allocate equipment to specific projects?
- Can you easily manage equipment planning and resource allocation?
- Are your asset audits slow and time-consuming? Do you find discrepancies in your audits?
- Are you in compliance with your asset management regulations (internal/external)?

Operational Challenges

- Is unplanned downtime stopping your operations?
- Is your production machinery in tip-top shape?
- Can you predict when a machine should be shut down to prevent a failure?
- Do you know which assets need to be serviced this month?
- Do you have the right spare parts to service them?
- Do you have real-time visibility of your shop/field maintenance workload?
- Is your field workforce linked to real-time information for faster and better decisions?
- Can you effortlessly allocate the work orders to meet the daily demand changes?
- Do you meet your operation's environment, emissions and safety standards?

**Solutions for Achieving Greater Value, Reducing Costs,
Eliminating Risks & Optimizing Operation's Efficiency**

Smart Asset Management

Improve asset reliability, availability, visibility and costs!

Enterprise Asset
Management (EAM)



Maintenance
Management
(CMMS)



Alert &
Notification



Smart
Sensors



Real-Time
Location System



Inventory / RTI
Tracking



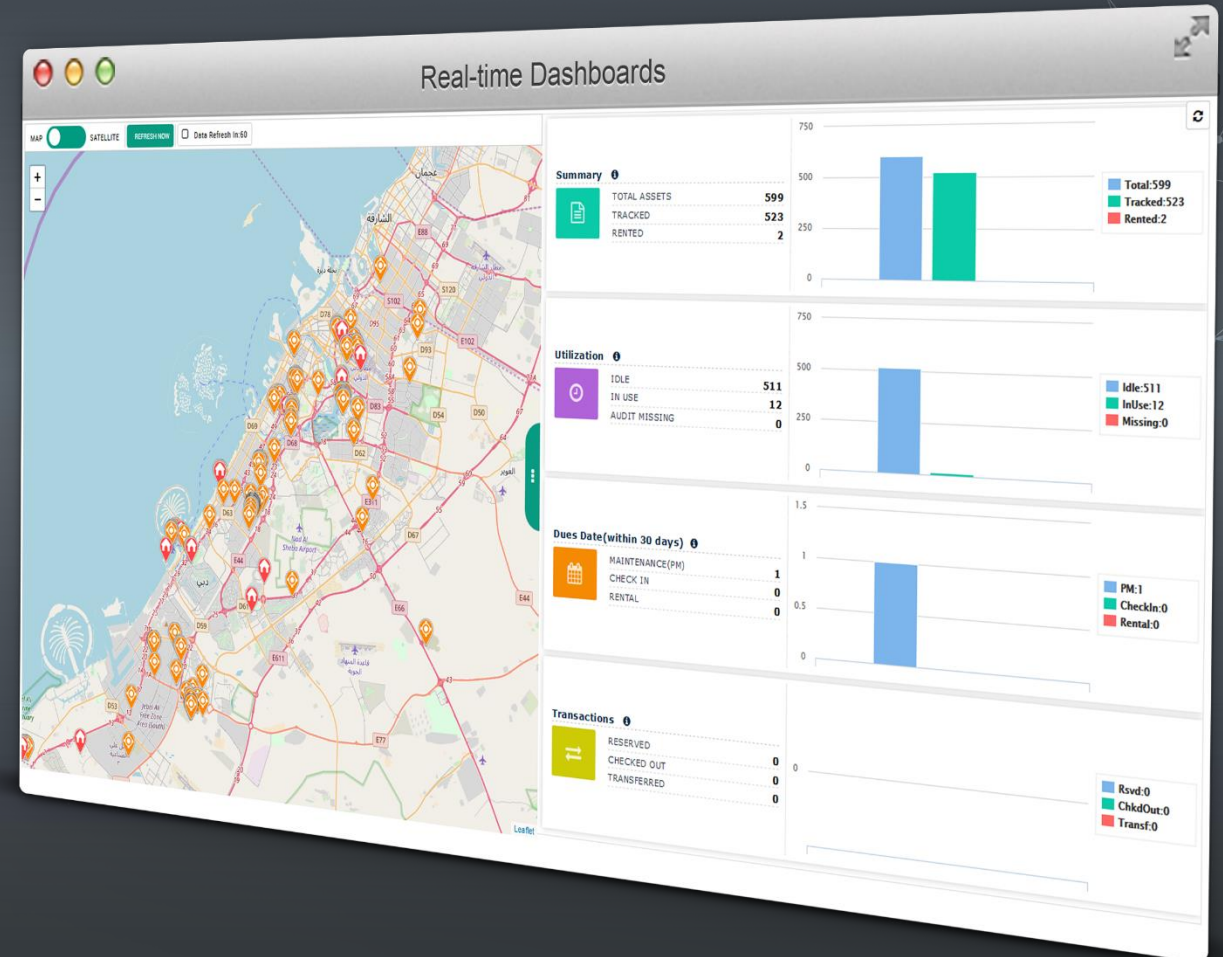
Cradle-to-Grave Asset Management

Manage & Track Your Assets. Indoor or Outdoor, Anywhere, Anytime.

Comprehensive asset management platform with wireless IoT capabilities for managing your capital assets, equipment and tools.

You can also supercharge your existing application with the power of wireless IoT.

- Asset Type with unlimited Attributes
- Asset Check-out/In, Transfer-Out/In
- Asset Audits (Counts, Misplaced, Missing, Search)
- Asset Reservation and Scheduling Management
- Asset Rental Tracking



Preventive Maintenance

Maximize Equipment Uptime, Reliability and Availability!

Drive an efficient maintenance operation.

- Condition-based Planned & Corrective Maintenance
- Auto-triggering Work Order Creation
- Technician Dispatch with One-click Assignment
- Maintenance Task Lists
- Maintenance Dashboards
- Maintenance Cost Tracking
- Instant Maintenance Requests

You can also enable your existing maintenance application with the power of Dominate wireless IoT sensors.

Predictive Maintenance

Minimize Un-scheduled Downtime!

Our Smart Maintenance Management is a CMMS on steroids.

Smart sensors collect real-time asset condition, usage, environment, and performance for predictive analysis.

Predictive maintenance algorithm helps determine the condition of in-service equipment in order to predict when maintenance should be performed. Alerts are sent to the right person at the right time so corrective action can be taken.

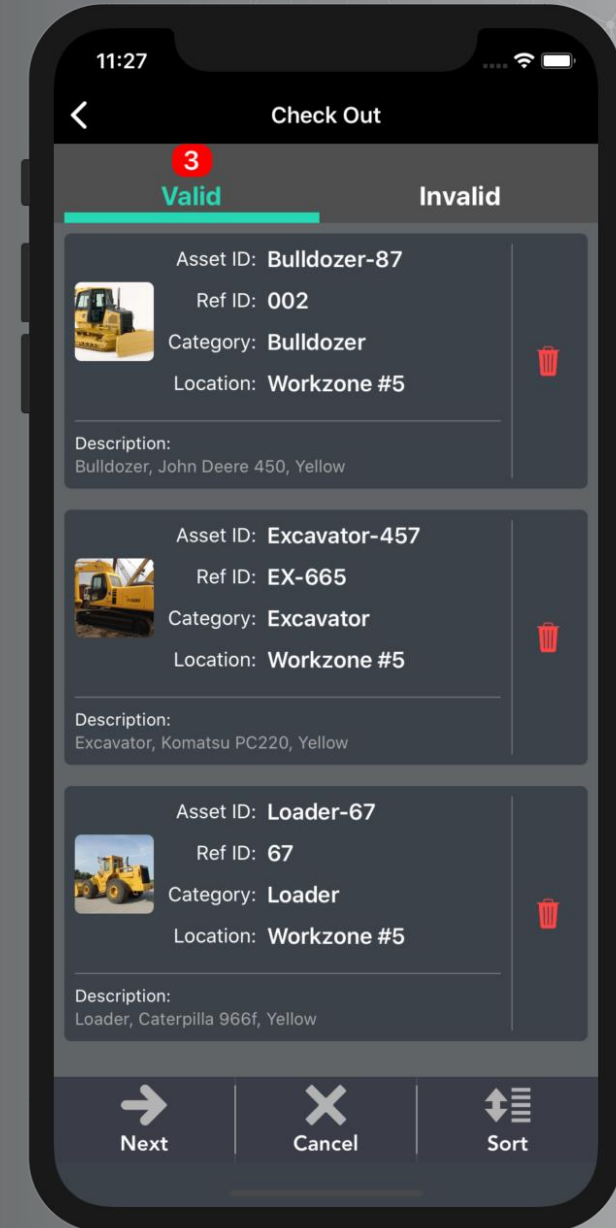


Mobile Field Management

Mobility connects You to Assets, Anywhere, Anytime!

Smart phones and tablets help you achieve the full spectrum of asset management and maintenance capabilities in the palm of your hand.

- Android & iOS
- On-line or Off-line Working Modes
- Live Geo-location Tracking
- Live Dashboards

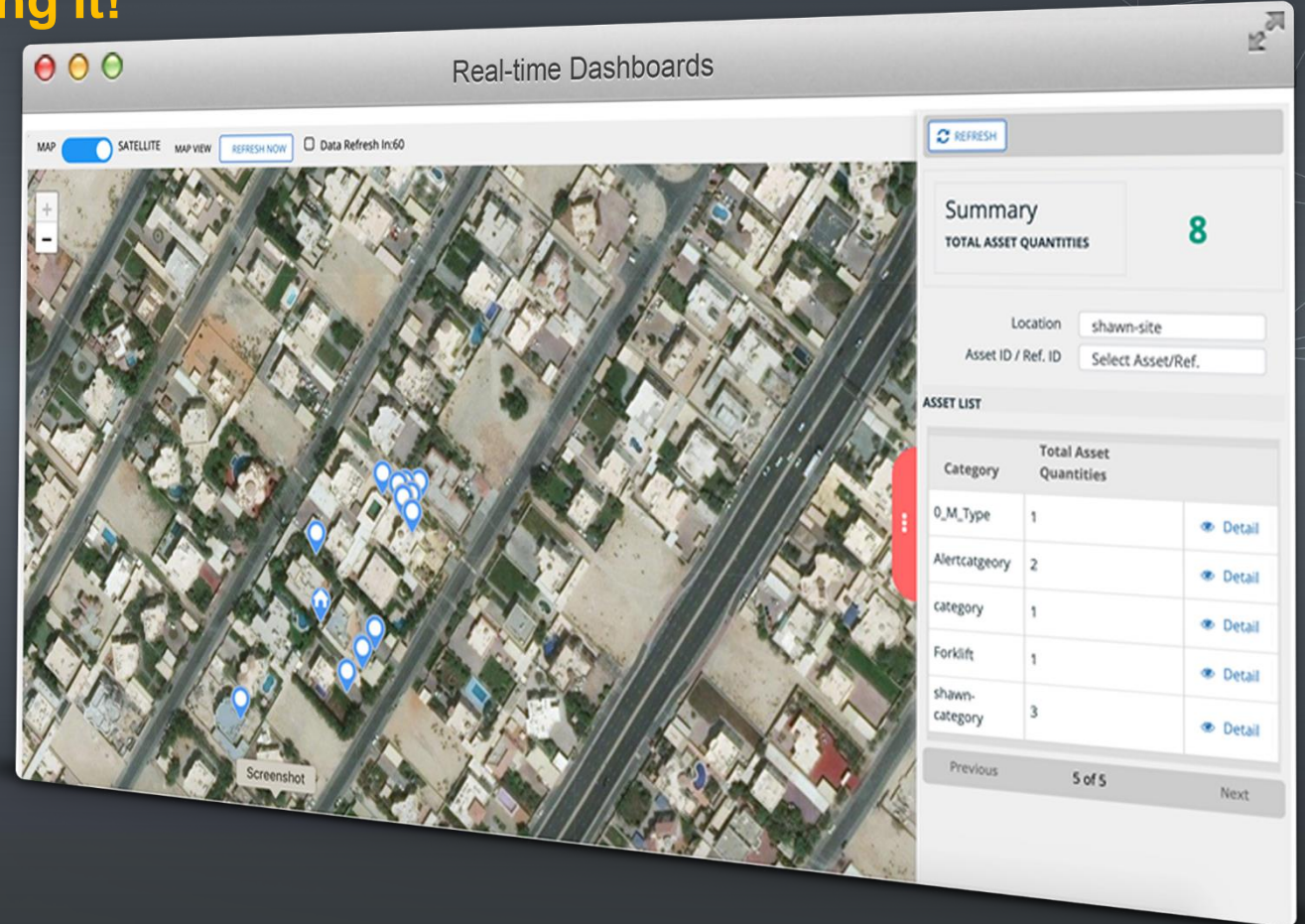


Real-time Alerts & Notifications

Watches your assets without you watching it!

Real-time alerts & notifications brings accountability, validation and security at every level.

- Rule-based Alerts
- Notifications
- Reminders
- Manage Restricted Asset or Location Access
- Actions (Pop-up message, SMS, email, siren, light strobe)



Inventory & RTI Tracking

The right materials at the right place and time!

Control material planning and availability to mitigate risks and boost operational performance.

Real-time visibility and tracking of your Returnable Transport Items.

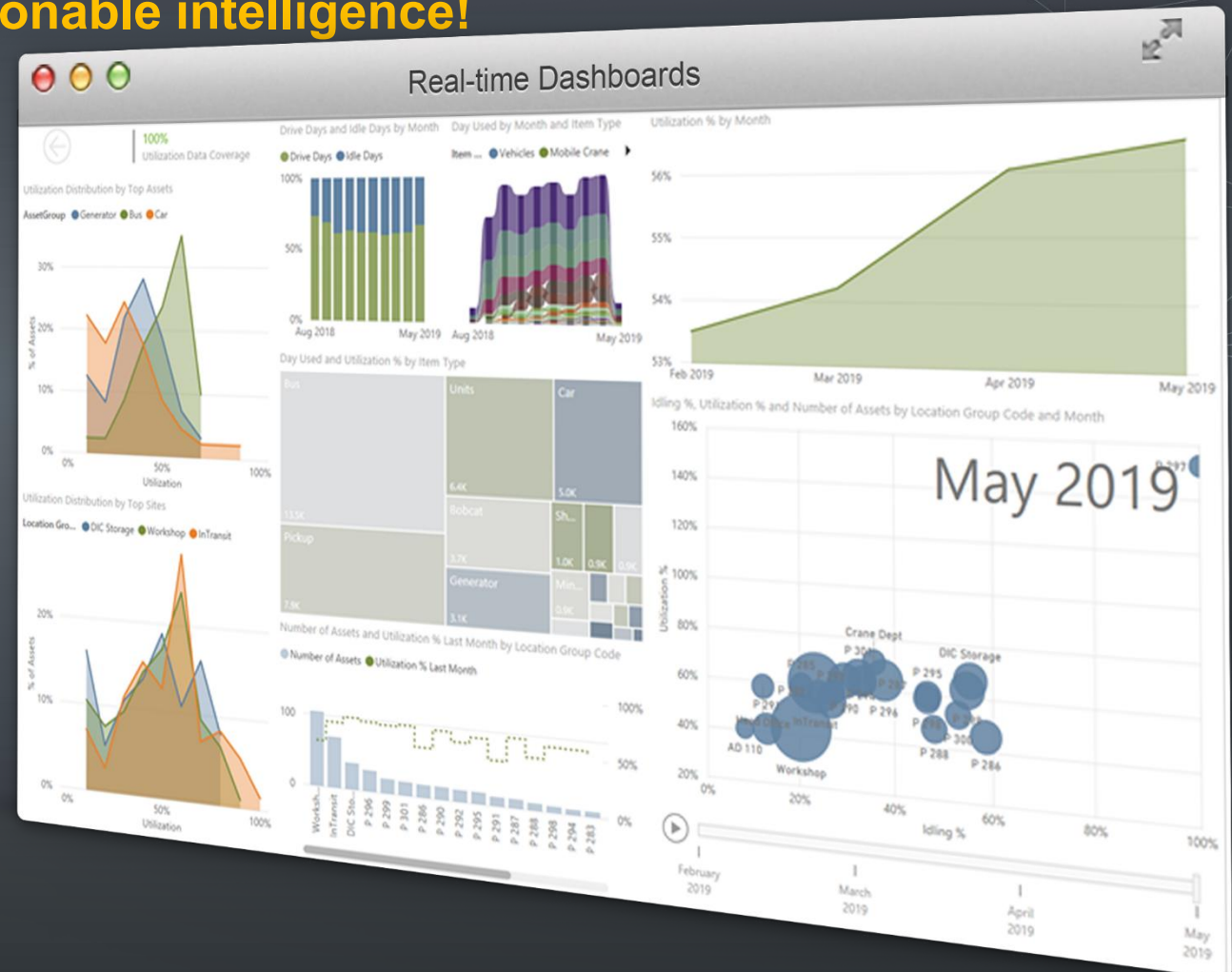
- Inventory & Spare Parts
- Inventory Level Tracking
- Inventory Locations
- Inventory Audit
- Low Stock Alerts

Analytics

Converting your asset's raw data into actionable intelligence!

Data gathered from IoT sensors allows you to see the conditions of machines and determine when a machine can be brought online or shut down to prevent an issue. Analyzes data gathered from a wide variety of sources to uncover patterns and trends that will deliver actionable insights to your operation.

- Live Dashboards
- AI-powered Insight
- Asset Utilization
- Asset Health
- Audit Analysis



Document Control

100% Paperless, 100% Digital.

Consolidate your documents, images, videos, transaction records, certifications, inspection approvals in a single digital portal, accessible from any location, on any device, by all authorized users across the enterprise.

- O&M manuals
- Drawings, Schematics
- 3D models, BIM
- Images, Videos
- Vendor Submittals

Integrations

Supercharge your Existing Applications with the power of IoT!

Extend your business applications with real-time insights from streaming IoT data to improve efficiency and derive more value.

- Import/Export Wizard
- Fleet Management
- IoT, GPS & RFID Devices
- Condition Monitoring Hardware
- Power BI & Extensive APIs

End-to-End Security

We take security seriously and have made it a hallmark of our entire system.

Through unique device identification, system provides secure environment of trusted devices and communications. Authentication is enforced prior to communication for proof-of-origin of data. Transport-level security helps prevent corruption. Role-based and user-based access control manages cloud and mobile access.

- Role and user-based access control
- HTTPS point-to-point connection
- Message integrity, confidentiality and replay protection
- Node authenticity
- AES 128 counter mode
- OMAC1 message integrity
- Transport-level security

Industrial IoT Monitoring Platform

Collect, Analyze, Act!

- Temperature & Humidity Sensors
- Vibration & Motion Sensors
- Water Leak Sensor
- Air Quality, Smoke, Dust & Gas Sensors
- Current, Voltage & RPM Sensors
- IR Sensor
- Contact Sensor
- Ambient Light Sensor

Platform Features

- Alerts Setup
- Incident Management
- Corrective Actions
- Android & iOS Mobile Apps
- 5 Years Log History



Technology Agnostic Industrial IoT Devices

RFID



GPS Devices



LoRa



BLE



Sensors



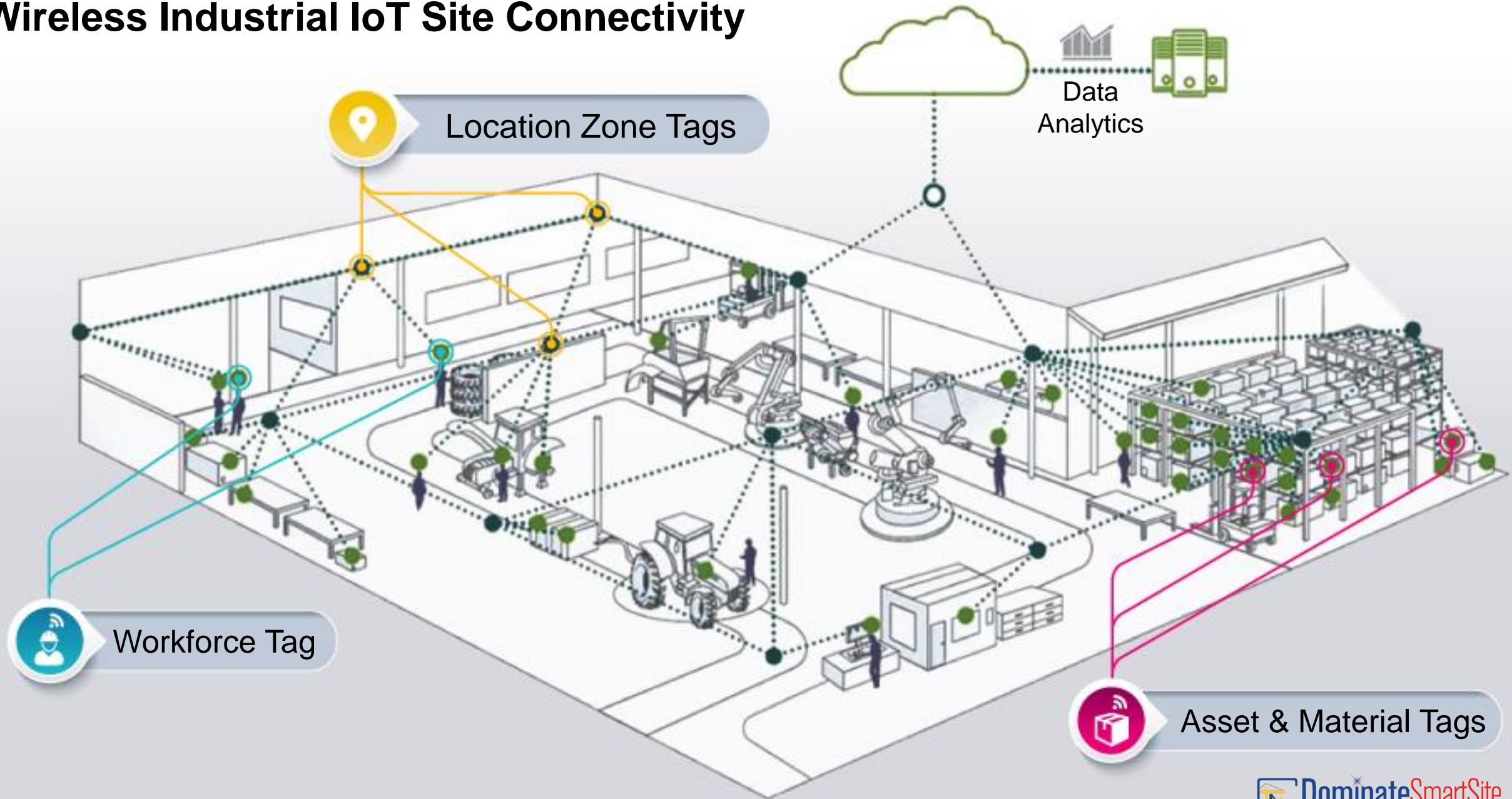
Plug & Play Industrial IoT Hardware

**IoT That's Ready to Use.
Ready to Build.
Ready to Scale.**

Pre-configured IoT hardware designed for harsh industrial environment without a need for AC power or network connection enables your operation to be IoT ready within days.

- No AC Power Required. Runs on long-lasting Battery (12 months).
- No Internet Connection Required (Creates its Own BLE Mesh Network).
- Quick Installation and Expansion (less than 2 minutes per device).
- Read Range of Up to 100 Meters (329 ft)
- IP67 Ratings (water & dust proof)
- Man-down (fall detection)
- SOS button for emergency alert notification
- High Availability with No Single Point of Failure

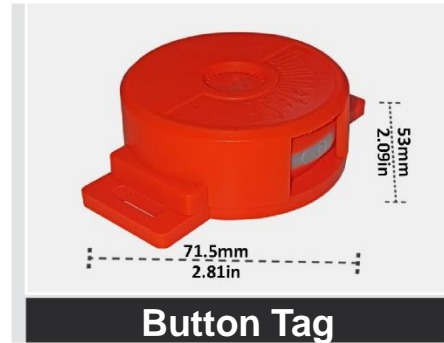
Wireless Industrial IoT Site Connectivity



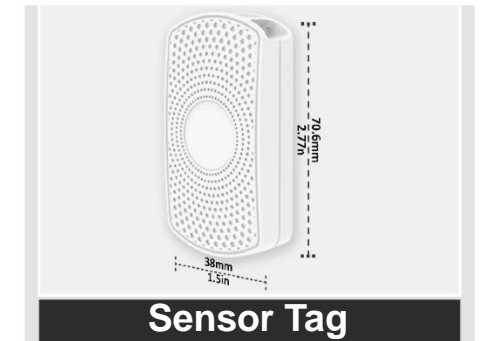
Examples of our IoT Asset Hardware

For full list, please visit <http://dominatesmartsite.com/iot-hardware>

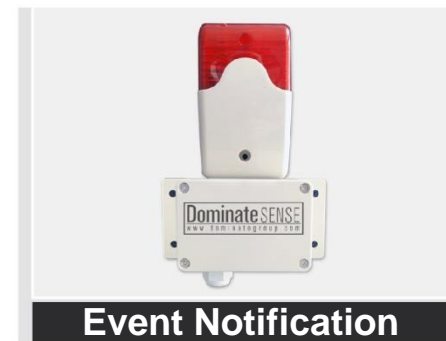
BLE Tags



GPS Tags



BLE Mesh Network



Deploy Dominate Smart Asset Management and witness the miraculous results:

- Improved operational efficiency.
- Improved asset availability and performance.
- Improved utilization of existing assets.
- Improved equipment planning and resource allocation.
- Reduced equipment downtime.
- Reduced total cost of ownership.
- Reduced excessive idle assets.
- Reduced accidents and incident rates
- Reduced Returnable Transport Items (RTI) losses

Data



Real-time dashboards providing information about **Asset Audit, Asset Count, Transactions, Due Dates**, etc. to make confident decisions based on actual data.

Example

Asset Audit

7 staplers were allocated to the Zone B. Today, system is showing one is missing.



Insight



Up-to-date reports providing insights into **Asset Maintenance, real-time demand & supply gaps** to drive confident, proactive & data-driven decisions.

Example

Maintenance & Supply Gaps

At the rate the power generator "Asset01" is working, it needs to be serviced in 15 days. Spare part inventory at site A is low on spark plugs. This will affect PM service of "Asset02" & "Asset03" which are due next week.

Action



Advanced analytics providing recommendations for better **management of assets**

Example

Recommendations for Asset Management

We need to purchase a number of new drills. To make a good purchasing decision, it is necessary to view all details of previous drills' lifecycle – from acquisition to disposal. Did they last as long as expected?



Real-Time Visibility

1

Example

Asset Count Presently, there are 5 air compressors available on site A.

Idle Assets Currently, there is one idle generator in Site C.

Asset Services There is a PM due date for Asset008 next week. Its current Odometer shows 12330.

Check-in/out John from Trade B's group has checked out 2 saw drills yesterday.

Service Due Dates The excavator working in Zone 3 should be inspected for proper functioning tomorrow.

Notifications The rented asset with tag ID 120031 must be returned in two days.

Asset Audit There are 3 assets missing from Site A.



Real-time Insights

2

Example

Asset Management What kinds of alerts have been issued for critical assets recently? Restricted movement? Anti-theft?

Schedule Issues Excavation work in location A was planned to be done in 150 hours. The group has been working for almost 200 hours now, & it is not finished yet. This is mainly due to excavators breaking down repeatedly. If things keep going like this, it is reasonable to expect one week of delay.

Cost Issues It was planned to spend no more than \$11,000 for renting heavy machinery, but at the end it costed \$19,000. Why did they have to keep the machine for a longer duration of time?

Asset Productivity Ratios We spent \$4500 on assets to complete task A. Our revenue was \$2920. This means for each dollar we spent, we earned \$0.65 with Asset Productivity Ratio of 65%.



Advanced Analytics

3

Example

Asset Optimization Aging assets are hindering the project's progress. Perhaps we need to replace some of them with new ones.

Financial Decisions There are 5 underutilized generators on site A. Should we transfer or sell them?

Financial Advices The asset with tag ID 120086 has been serviced 5 times during the past 2 months at a total cost of \$3400. Perhaps we need to replace this asset with either a new one or a rental.

Tactical Advices Company's profit margins are being gobbled up by underutilized assets. This is primarily because purchased assets are used for a short while and then left aside and forgotten. Perhaps we need to rent assets instead.

Use Data to Realize Efficiencies, Minimize Costs, Control Risks & Improve Asset Performance.

- Gain complete visibility and control of all equipment and assets across your facility.
- Leverage data automation for asset allocation analysis and reporting.
- Eliminate the need to search for lost or misplaced items.
- Improve asset availability, and cut down on time wasted for asset tracking and management.
- Automate asset management including check-in/check-out, auditing and reporting.
- Reduce asset-related operating costs, extend asset life and Improve ROA (return on assets).
- Decrease downtime and monitor asset health and performance.
- Optimize asset utilization within and across projects.



Why Dominate Industrial IoT?

Key System Features

- End-to-end IoT Solutions or enable your existing applications with IoT.
- SaaS or on-premise installations.
- Quick learning curve with minimal operation disruptions.
- Plug & play, pre-configured and ready to go IoT hardware.
- Technology agnostic with quick DIY hardware installation.
- Mobile-enabled (iOS & Android).
- End-to-end security.

Zero Investment & Risks

- Low-cost bundled hardware & software monthly subscriptions.
- Accelerate time to value with no upfront costs or CAPEX.
- No long-term contract (maximum 6 months).

Worry-free Support

- Online knowledge base access.
- Remote dedicated consultants.
- On-site full-time dedicated consultants.
- Free data migration.

Our Goal

Partner with our clients to transform their organizations in the ways that matter most to them.

This means embedding digital, analytics, and design into core processes and mind-sets; building capabilities that help organizations and people to thrive in an ever-changing context; and developing excellence in execution to ensure that actions translate into outcomes, quickly and sustainably.





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