# ASSET MANAGEMENT SYSTEMS FROM BOWE IQ

THE INTELLIGENT TRACK AND TRACE SOLUTION

BOWE
IQ

TOGETHER WITH THE BOWE GROUP, BOWE IQ OFFERS A ONE-STOP-SHOP APPROACH TO BUSINESS PROCESS AND MATERIAL AUTOMATION & CONTROL.

Our smart IoT solutions for the entire process chain are already embedded into the operations of over 220 organisations worldwide. This vast wealth of expertise together with our dynamic solution-driven ethos are what give BOWE IQ the edge, enabling us to respond intelligently and flexibly to your unique requirements.
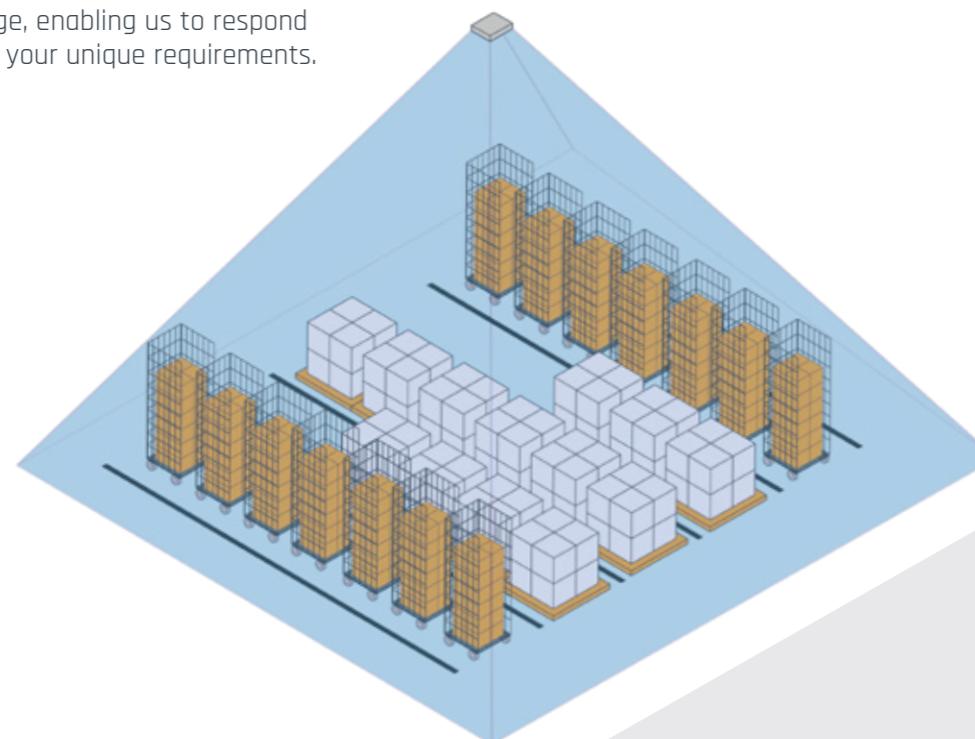
INTELLIGENT ASSET MANAGEMENT BY BOWE IQ

In a nutshell, a BOWE IQ AMS (Asset Management System) tells you in real-time exactly where all your assets are, where they have been, and how they have been used. It is most commonly utilised to track assets and production materials such as pallets, containers, tools, devices, machines, and vehicles, all of which involve substantial investment.

This essentially means a huge reduction in the time spent searching for assets, in production delays, and in error-prone paperwork. A BOWE IQ AMS will further streamline operations by facilitating real-time stocktakes and predictive maintenance as well as providing up-to-the-second accurate records for compliance purposes.

This in turn enables you to focus on more profitable activities whilst also benefiting from the peace of mind of full compliance.

MOST COMMON USES OF A BOWE IQ AMS

> Tracking of RTIs (Reusable Transport Items), e.g. cages, pallets, and tote-boxes

> Proof of delivery (POD)

> Automated asset tracking to streamline production processes

> Automated tracking of employees, e.g. for access control, safety compliance, or informing resource allocation

> Efficient coordination of scheduled vehicle checks

> Management of Health & Safety checks, e.g. of fire alarms, electrical systems, plant, and machinery
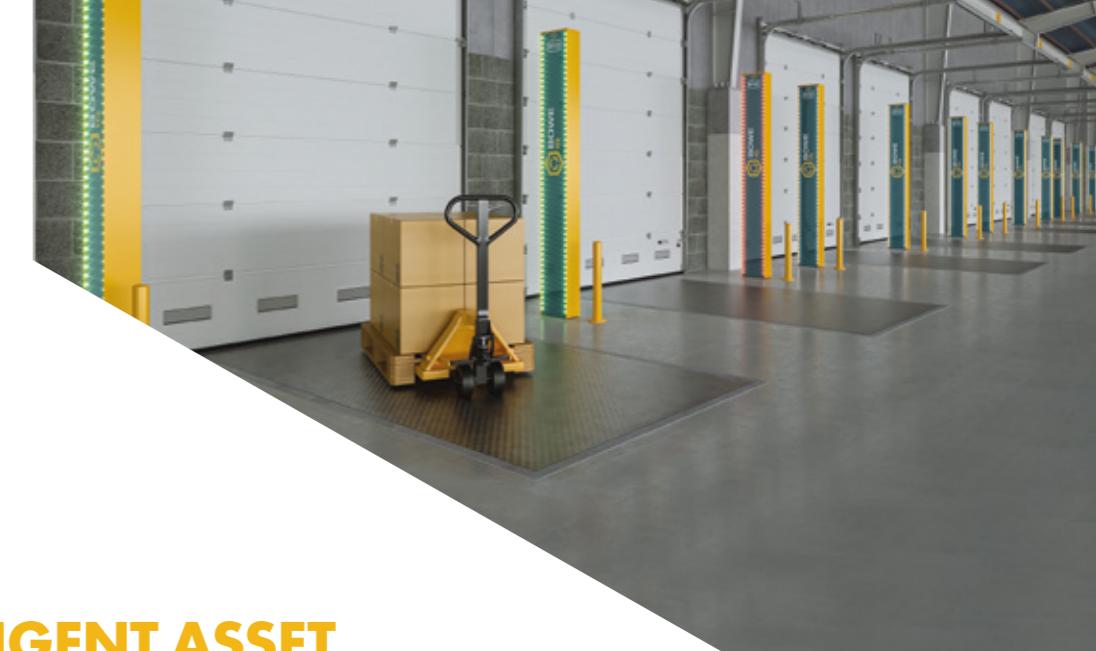
THE BOWE IQ APPROACH TO AMS

With a BOWE IQ AMS, assets can be tracked seamlessly through an entire supply chain or production process. **Here's how:**

STEP 1: THE ASSET ID

Each asset is given a unique identifier in the form of an RFID (Radio Frequency Identification) label or tag. Our permanent tags are perfect for metal assets like cages, while paper or synthetic labels are ideal for non-metallic surfaces, plastics, card, or paper. BOWE IQ can also supply the label printers.

STEP 2: THE READER

BOWE IQ RFID readers can be fixed or mobile (handheld) and are fitted with antenna capable of detecting and communicating in real-time with any asset with an RFID tag.

> Vertical portals placed at dock doors and chokepoints read inbound or outbound assets, such as pallets and boxes.

> Overhead portals track cages and yorks as they pass below.

> Tunnel scanners provide instant and accurate readings of the contents of boxes on conveyors.

> Handheld scanners read up to 1000 tags per second as the user moves around a warehouse or shopfloor.
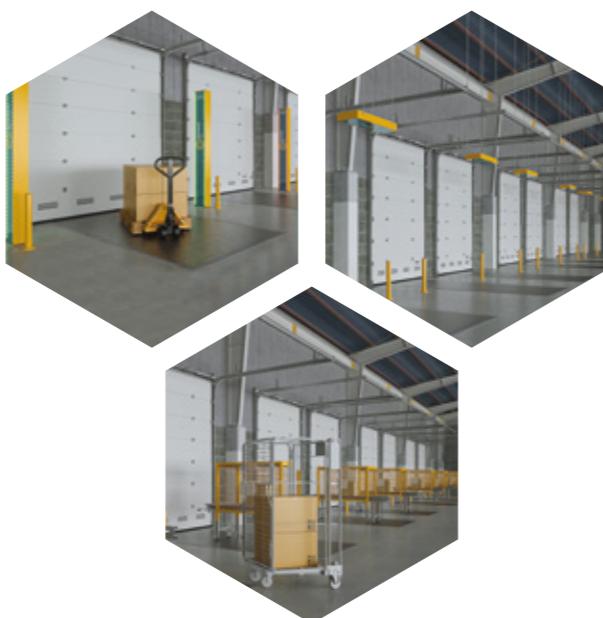
RFID can also work alongside other RTLS (Real-Time Location Systems) technologies, such as UWB (Ultra-Wideband) for precise indoor locating or GPS (Global Positioning System) for high accuracy outdoor positioning. Doing so can extend tracking possibilities to incorporate moving assets like forklift trucks or AMRs (Autonomous Mobile Robots), vehicles, and also employees for health & safety or security reasons, for example.

STEP 3: THE SOFTWARE

At this point the advanced software development skills of BOWE IQ step in with an intelligent Cloud software ecosystem that communicates with all RFID/barcode readers and with other available data sources. In essence, the BOWE IQ software can capture data in real-time across multiple machines and systems on a single or multiple sites.

The highly modular software design makes possible top-tier analytics across all business units, allowing management to see at a glance what is going on in a company by means of:

> Insightful dashboards with drag and drop features, a variety of display options, and easy adaptation into different languages

> Powerful parametrised and parameterless reports

> Clear visuals showing the real-time status of critical machine parts.
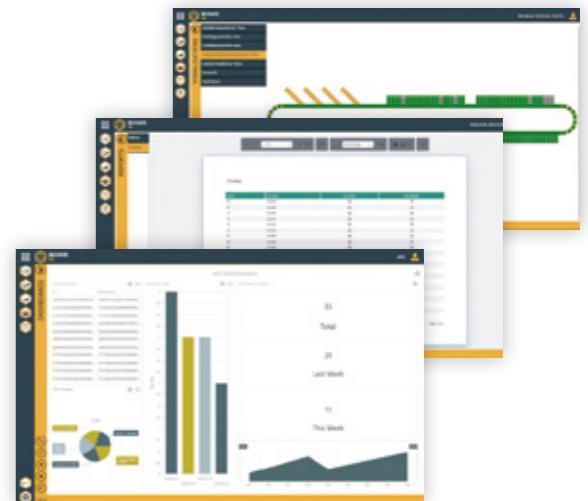
STEP 4: THE MOBILE DEVICE

The BOWE IQ software also transforms handheld scanners into invaluable mobile devices on which the BOWE IQ mobile app runs with all the necessary functions for inventory counting, asset commissioning, locating, and reporting.

The BOWE IQ mobile app makes it far easier for operators to carry out their day-to-day tasks by providing easy-to-follow instructions on the necessary real-time actions required, e.g. checking an incorrect item in a shipment, collating a pick using the item and location information given, carrying out maintenance tasks, or performing the next step in a production process.

STEP 5: THE INTEGRATION

The final step involves the integration of the BOWE IQ AMS software with other business systems, e.g. a customer's ERP (Enterprise Resource Planning) or MRP (Material Requirements Planning) software. This enables tag information and process-based movement data to be sent directly to a customer's centralised framework, generating sizeable benefits in terms of efficiency, accuracy and decision-making.

WALL-TO-WALL BENEFITS AND BEYOND

A BOWE IQ AMS offers far-reaching benefits that extend across all facets of an organisation, transforming cost-intensive operations into streamlined, data-driven environments that promote long-term sustainability and growth.

REAL-TIME ASSET TRACKING

Whether tool, pallet, cage, container, mail tray, machine or vehicle, a BOWE IQ AMS provides real-time visibility into the exact location of your assets within a warehouse, production facility, or across several sites.

> No more searching for misplaced items

PREDICTIVE MAINTENANCE

Your BOWE IQ AMS can schedule regular maintenance and inspections based on machine use and regulatory requirements, ensuring that assets are maintained in compliance with safety and operational standards. The software also helps with the early identification of any potential problems or device failures by monitoring the condition of assets in real-time.

> Up-to-date documentation at all times with clear audit trails

FULL HEALTH & SAFETY COMPLIANCE

Based on a user login and role-based authorisation model, your BOWE IQ AMS also ensures that any necessary checks are carried out by appropriately skilled personnel, while a simple command and response system guarantees that all safety procedures are followed and validated with an e-signature. The RTLS (Real-Time Location Systems) technologies underpinning the software also enable the tracking of moving assets, including people, for Health & Safety reasons. They can even slow down vehicles automatically, e.g. forklift trucks or AMRs (Autonomous Mobile Robots).

> Peace of mind of full compliance
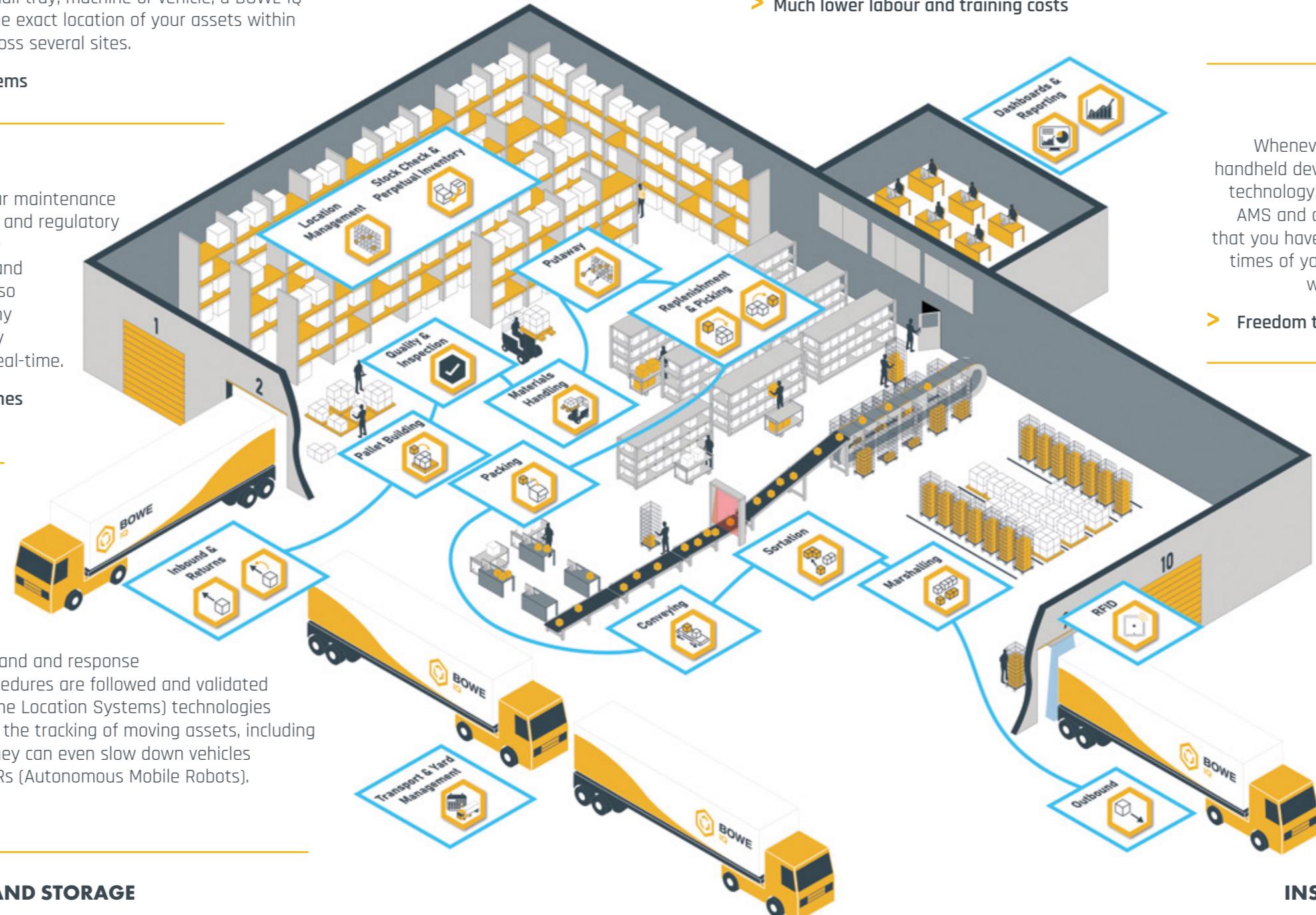
OPTIMISATION OF ASSET USE AND STORAGE

By providing real-time visibility not only into the location of assets but also their usage, movement and availability, a BOWE IQ AMS can prove invaluable in reducing asset downtime. It also enables assets to be stored in the most cost-effective, space-saving way, without the need for time-consuming and error-prone manual calculations.

> Significant cost savings in terms of efficiency, resources, and space

IMPROVED RESOURCE ALLOCATION

With real-time data to hand on asset availability and location, employee availability, stock levels, and Health & Safety requirements, your BOWE IQ AMS will automatically allocate resources in the most efficient way. It will then send easy-to-follow next-step instructions to the handheld mobile devices, ensuring operators are completely clear on the necessary real-time actions required.

> Much lower labour and training costs

STOCKTAKING IN REAL TIME

Whenever an asset is scanned, whether by a handheld device, fixed RFID scanner or other RTLS technology, its location is noted by the BOWE IQ AMS and any movement reported. The result is that you have an up-to-the-second overview at all times of your assets and production materials – without laborious manual stocktaking.

> Freedom to focus on more profitable activities

ENHANCED SECURITY

As well as eliminating lost/ misplaced items, a BOWE IQ AMS also protects assets against theft by detecting in real-time any item that is not authorised to leave a site or designated area. Similarly, the AMS ensures that only authorised personnel access specific areas or assets. As a result, not only do costly assets remain where they are supposed to be, they are also returned promptly and in good condition.

> No need to purchase unnecessary replacements

INSTANTLY ACCESSIBLE REPORTS

As well as providing critical insights into operations, costs and trends, the real-time data capturing and reporting features of a BOWE IQ AMS also mean that a company has to hand at all times all the paperwork needed for a wide range of purposes, e.g. full asset traceability, regulatory compliance, financial audits, asset lifecycle tracking, forecasting.

> Highly accurate reports that do not demand intense use of resources

MINIMAL INSTALLATION EFFORT

The implementation of a BOWE IQ AMS is remarkably straightforward. Typically, the majority of assets are tagged all at the same time with an 'as needed' approach to the tagging of any remaining assets to ensure minimum disruption. And as far as the RFID portals are concerned, these are all fully integrated and ready to plug in.

On the BOWE IQ software front, its Cloud-based architecture, guided setup wizards, and user-friendly interfaces contribute further to ease of installation. Similarly, the software's notable integration capabilities facilitate seamless data exchange with existing systems. We also have at our disposal an extensive bank of BOWE IQ preconfigured templates that provide a starting point that already aligns with most companies' needs.

FLEXIBLE OPTIONS

Of particular importance to many of our customers is the scalable and flexible design which enables companies to start with a basic installation and add features or modules as needs evolve. For example, our RFID portals can be supplied as a standalone product, as part of a full BOWE IQ Cloud software ecosystem, or at any stage in between.

> Please contact us to discuss your requirements!