INTRODUCING BLYOTT

Navigating the Future of Healthcare Efficiency

ASSET TRACKING & INVENTORY MANAGEMENT

Blyott | REMOTE INSIGHTS

Get to know the Blyott team

Founded in 2019 and based in Bruges, BE, Blyott develops *BLE-based RTLS solutions* for asset tracking and inventory monitoring.

Team

R&D and support teams operate out of Split (Croatia) and Skopje (Macedonia). Full team of 15 people.

Core focus

Healthcare industry, serving hospitals, elderly care facilities, as well as pharma and medical device companies.

From internal challenges...

Searching for assets

The constant struggle of not knowing where assets are, leading to delays, inefficiencies, and increased operational costs.

Loss and theft

With no asset data at hand, organizations don't know what's missing—even stolen, leading to waste and shorter asset lifespans.

Utilization of assets

Inadequate insights into asset conditions and usage, making it challenging to ensure optimal asset utilization and longevity.

Workflow optimization

Overburdened staff, unclear workflows, and lack of immediate insights, all contributing to decreased productivity and well-being.

THE NEW STANDARD IN LOCATION BASED TRACKING & MONITORING

...to global concerns

Aging population

Older populations and rising costs are increasing pressure on healthcare systems.

Staffing shortages

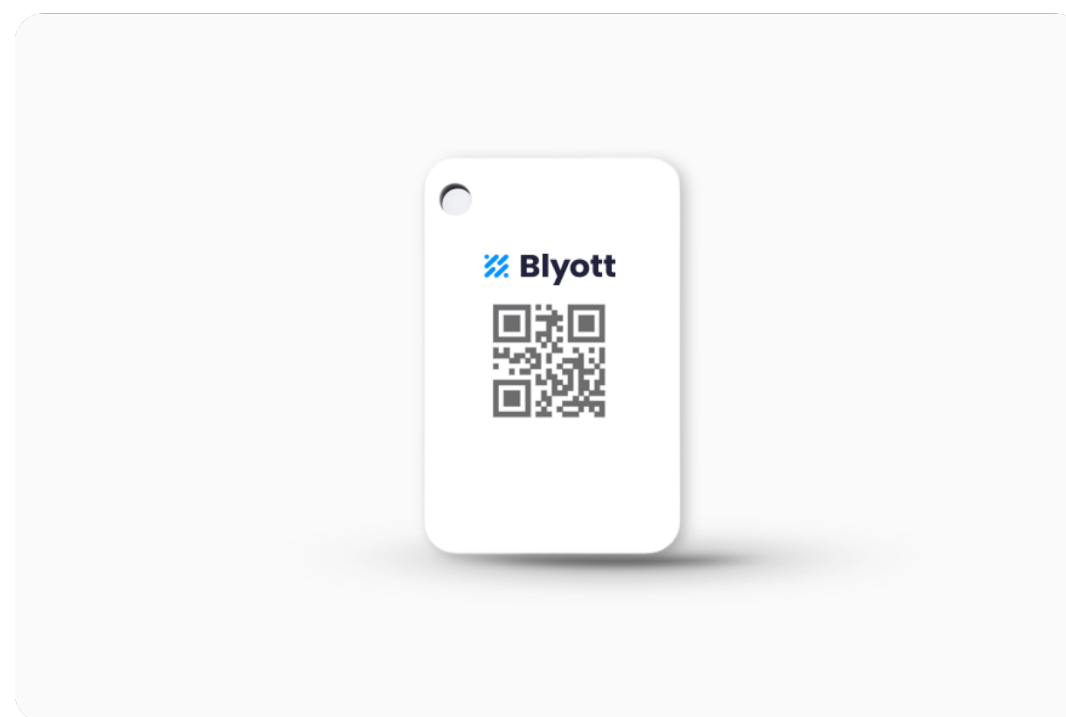A projected 18 million healthcare worker shortfall by 2030 threatens care delivery.

Waste management

$33 billion in hospital inventory is wasted yearly due to expiry, exposing poor stock management.
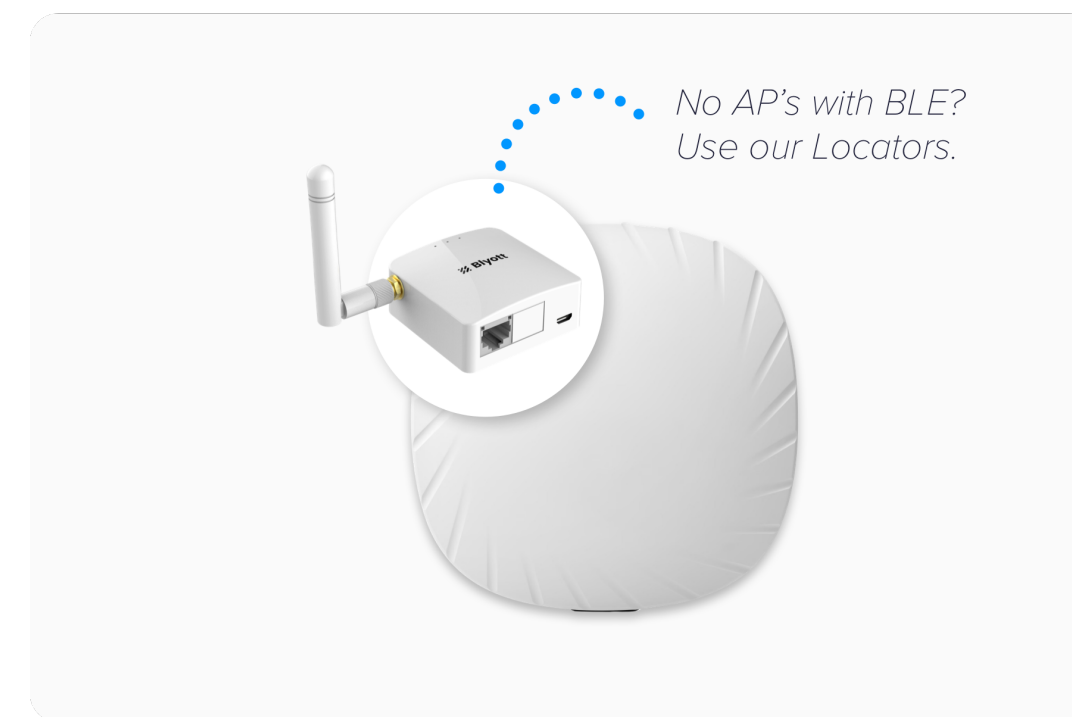
Environmental impact

Healthcare accounts for 4.4% of global emissions, underscoring the need for greener practices.
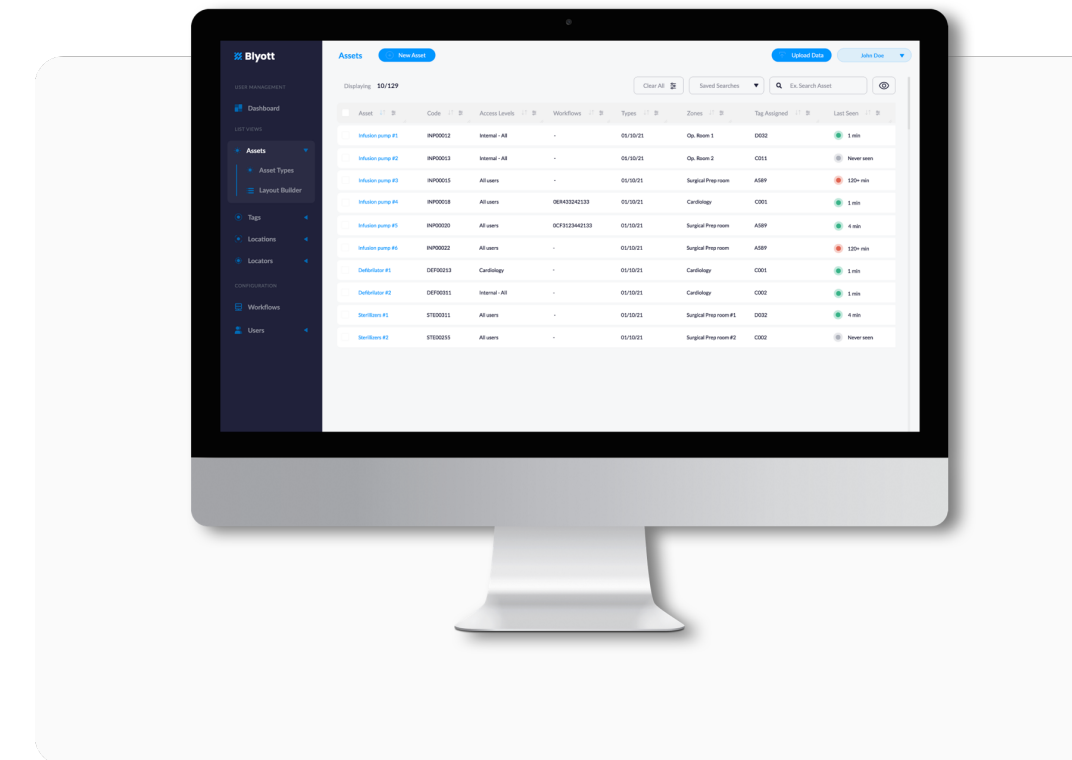
The Blyott solution: four components

No AP's with BLE?
Use our Locators.

Custom project developed to track
oxygen bottles in hospitals for Air Liquide.

1. Blyott Sensors

Fixed on assets. Location,
temperature, movement. Many
types, long battery life.

2. Wi-Fi AP's with Bluetooth

Receive Bluetooth sensor
information. Wi-Fi AP's, fixed &
mobile (4G) locators.

aruba   Juniper Mist AI   Cisco Meraki   Extreme   FORTINET
Mist AI   Cisco Meraki
Mist AI   Cisco Meraki

3. Remote Insights Platform

Real-time asset localization and
insights with Big Location Data.
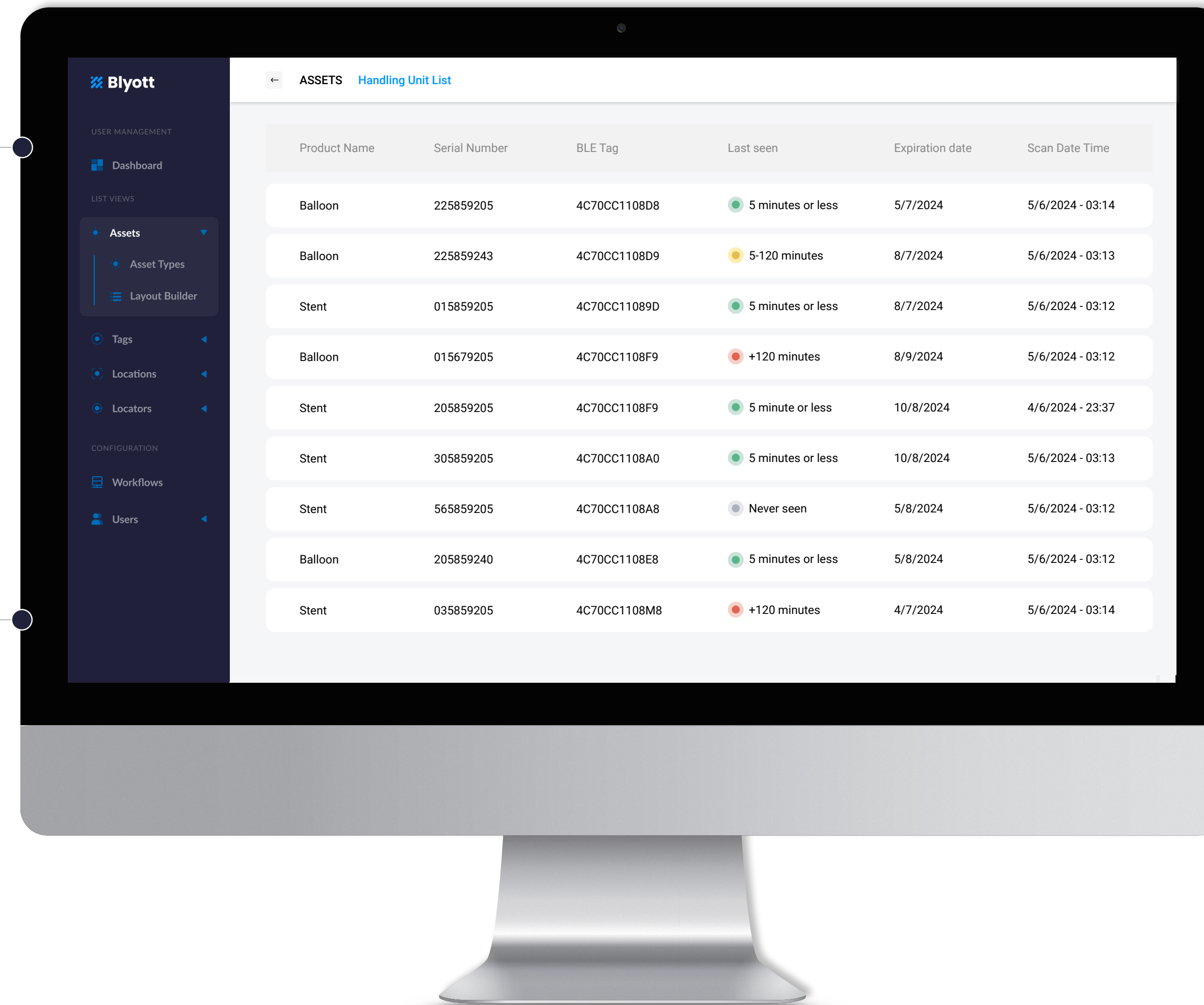Serverless & scalable architecture.
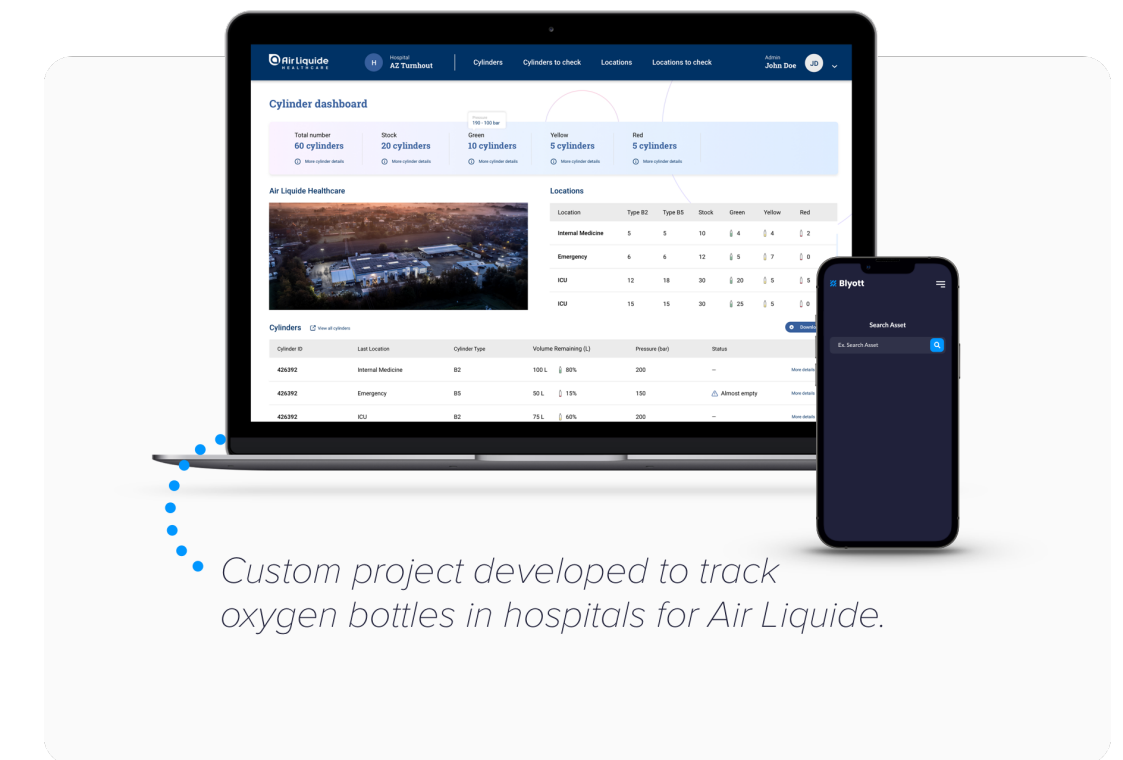
4. Customer Applications

Blyott web and mobile app. Support
for 3rd party apps using Rest API's &
webhooks, e.g. Power BI or similar.

Remote Insights Platform

Real-time localization of assets, complemented by comprehensive monitoring capabilities.

SaaS solution via web platforms and mobile apps on Android & iOS.

REST APIs, webhooks & MQQT ensure seamless integration with other app, like Power BI.

Real-time data to prevent overstock & expired items. Automated replenishment.

Blyott

USER MANAGEMENT
- Dashboard

LIST VIEWS
- Assets
  - Asset Types
  - Layout Builder
- Tags
- Locations
- Locators

CONFIGURATION
- Workflows
- Users

ASSETS   Handling Unit List

Product Name	Serial Number	BLE Tag	Last seen	Expiration date	Scan Date Time
Balloon	225859205	4C70CC1108D8	5 minutes or less	5/7/2024	5/6/2024 - 03:14
Balloon	225859243	4C70CC1108D9	5-120 minutes	8/7/2024	5/6/2024 - 03:13
Stent	015859205	4C70CC11089D	5 minutes or less	8/7/2024	5/6/2024 - 03:12
Balloon	015679205	4C70CC1108F9	+120 minutes	8/9/2024	5/6/2024 - 03:12
Stent	205859205	4C70CC1108F9	5 minute or less	10/8/2024	4/6/2024 - 23:37
Stent	305859205	4C70CC1108A0	5 minutes or less	10/8/2024	5/6/2024 - 03:13
Stent	565859205	4C70CC1108A8	Never seen	5/8/2024	5/6/2024 - 03:12
Balloon	205859240	4C70CC1108E8	5 minutes or less	5/8/2024	5/6/2024 - 03:12
Stent	035859205	4C70CC1108M8	+120 minutes	4/7/2024	5/6/2024 - 03:14

amazon QuickSight

Analytics module

The real power of asset tracking is Big Location Data

The true power of asset tracking lies in "Big Location Data". Blyott's Remote Insight Platform offers real-time location tracking, along with detailed insights into asset usage and operational patterns over time.

Users can access this data via standard or customizable dashboards, or download it for use in tools like Power BI.

Partnership with amazon QuickSight
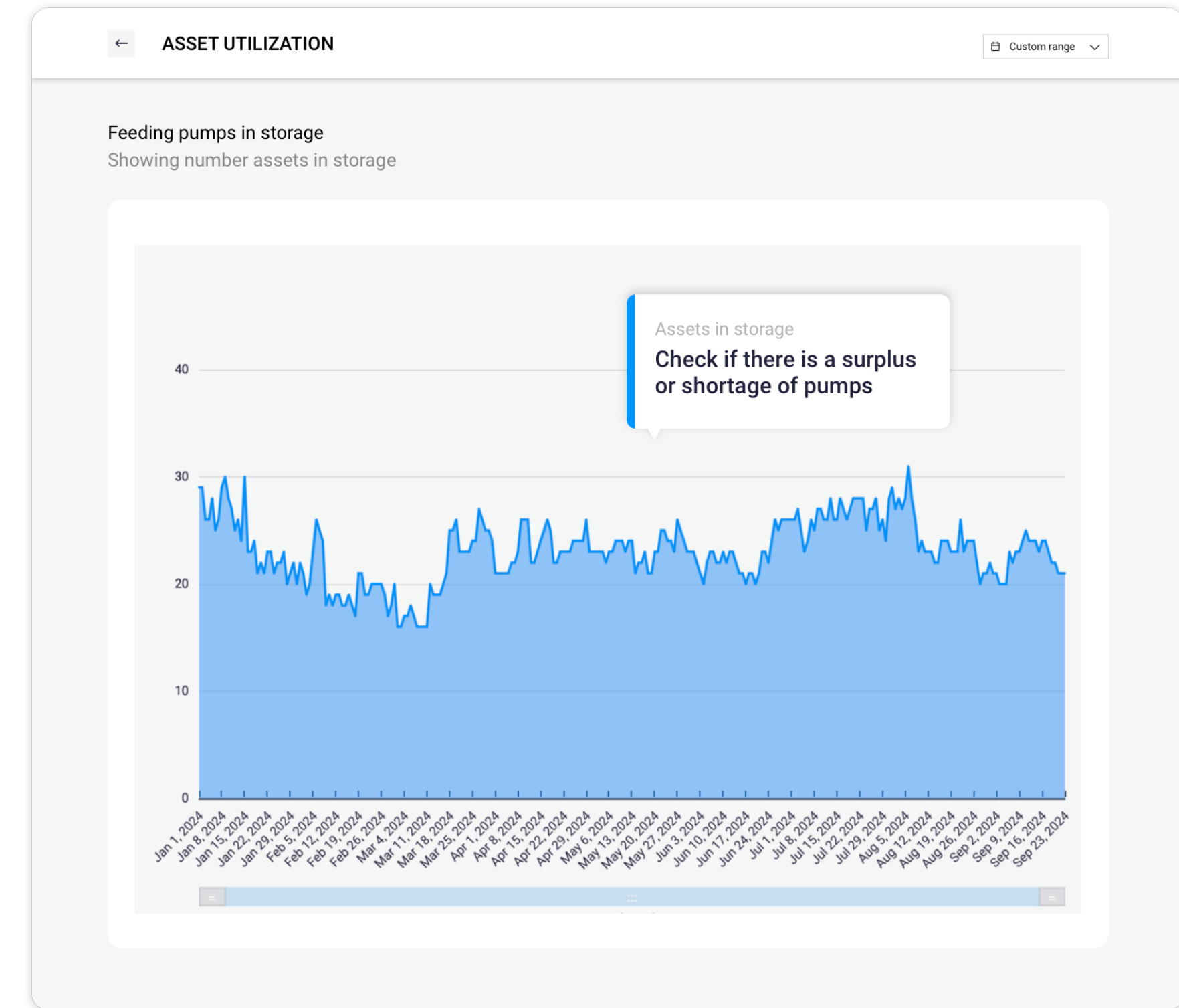
Main advantages

Fast to implement

Connect directly to existing Wi-Fi access points with built-in BLE infrastructure.

Open platform

Get support for 3rd party apps using REST APIs and webhooks regardless of OS.

Analytics module

Big Location Data and AI give you extremely valuable insights into e.g. asset utilization.

Attractive pricing model

Enjoy a pay-as-you-grow business model with limited upfront costs.

"It's essential to limit the time lost as much as possible so that our staff can spend their days more effectively.

Our research showed that each of our 67 FTEs spent 15 minutes to half an hour daily looking for assets. Out of 3,800 FTEs, that may not seem like much, but the point is that our nursing staff were not carrying out their core tasks: caring for patients.

Martin Meijerink
Director, Maatschap MMS (Maastad Medical Specialists)

Sustainable asset tracking and inventory management

✔ **Waste minimization**

Optimal asset utilization to reduce discard rates and environmental impact.

✔ **Transparent governance**

Real-time analytics for better oversight and risk mgmt. Report on ESG and sustainability goals.

✔ **Circular economy champ**

Analyze asset usage for effective end-of-life planning: recycle, refurbish, and repurpose.

✔ **Supply chain excellence**

Enhance efficiency, cut transport emissions, and boost environmental performance.

✔ **Environmental monitoring**

Ensure product quality with cold chain management and conditions tracking.

✔ **Smart building pioneer**

Harness sensors to create energy-efficient, sustainable spaces.

Customer stories

Fast integration

In just weeks, a major hospital deployed Blyott using its existing Wi-Fi + BLE network.

Real-time overview of assets

Track beds, pumps, and more. Monitor temperature-sensitive areas like pharmacy fridges to protect medication efficacy.

Smarter operations

Indoor localization and data insights help identify flows, fix bottlenecks, and boost efficiency.

Cost savings

Know exactly where and how assets are used. Plan inventory better, reduce excess, and cut costs.

Courtesy of AZ Maria Middelares, double-click to watch

Additional information

Blyott works with Location IDs

Why Blyott uses Location IDs instead of Maps

Finding critical equipment should be simple. That's why Blyott skips complex maps and focuses on clear Location IDs, quick, direct, and effective.
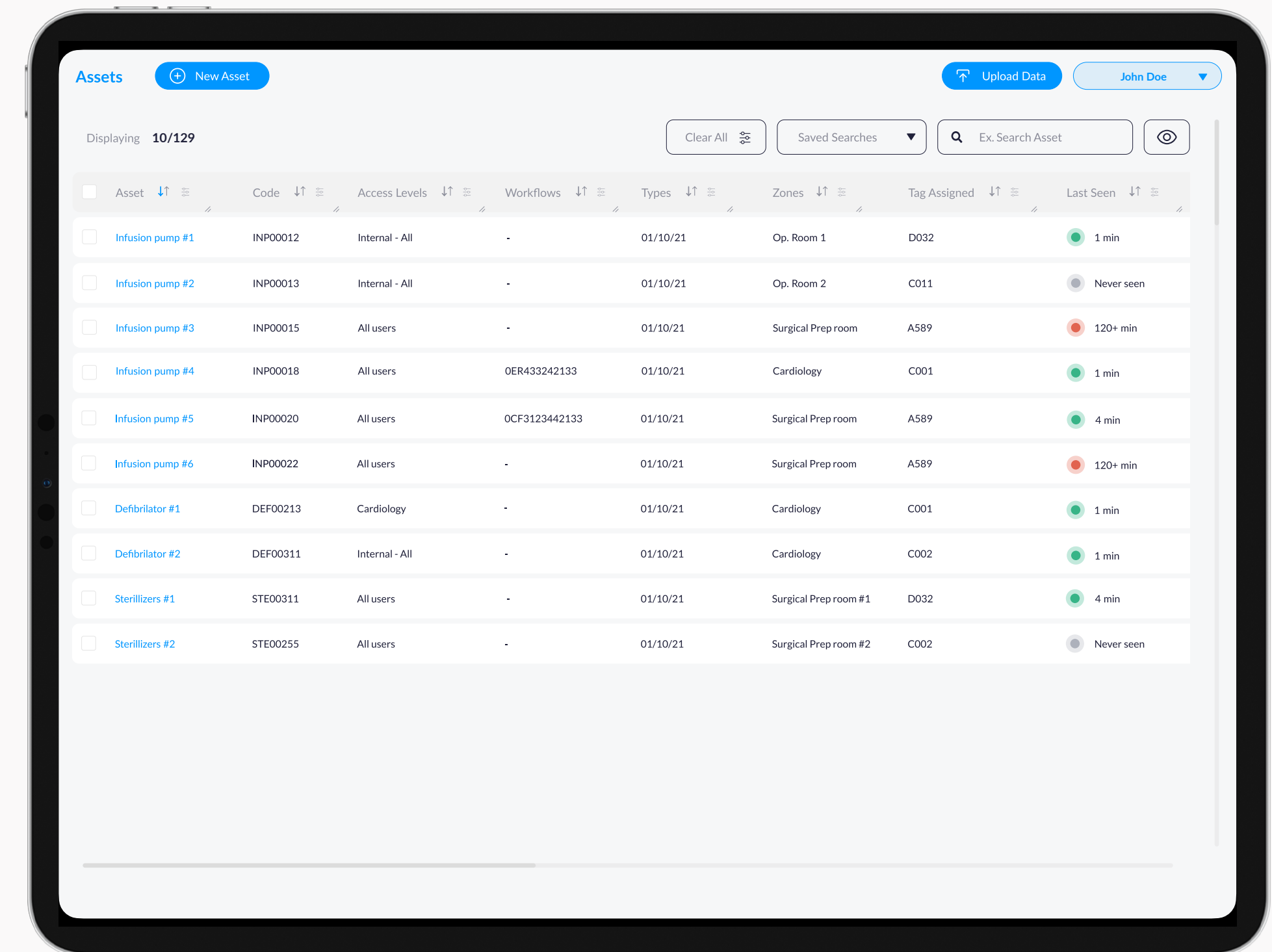
For those who need it, integration with third-party mapping tools is available via REST APIs, webhooks, and MQTT.

✔ **Always up to date**

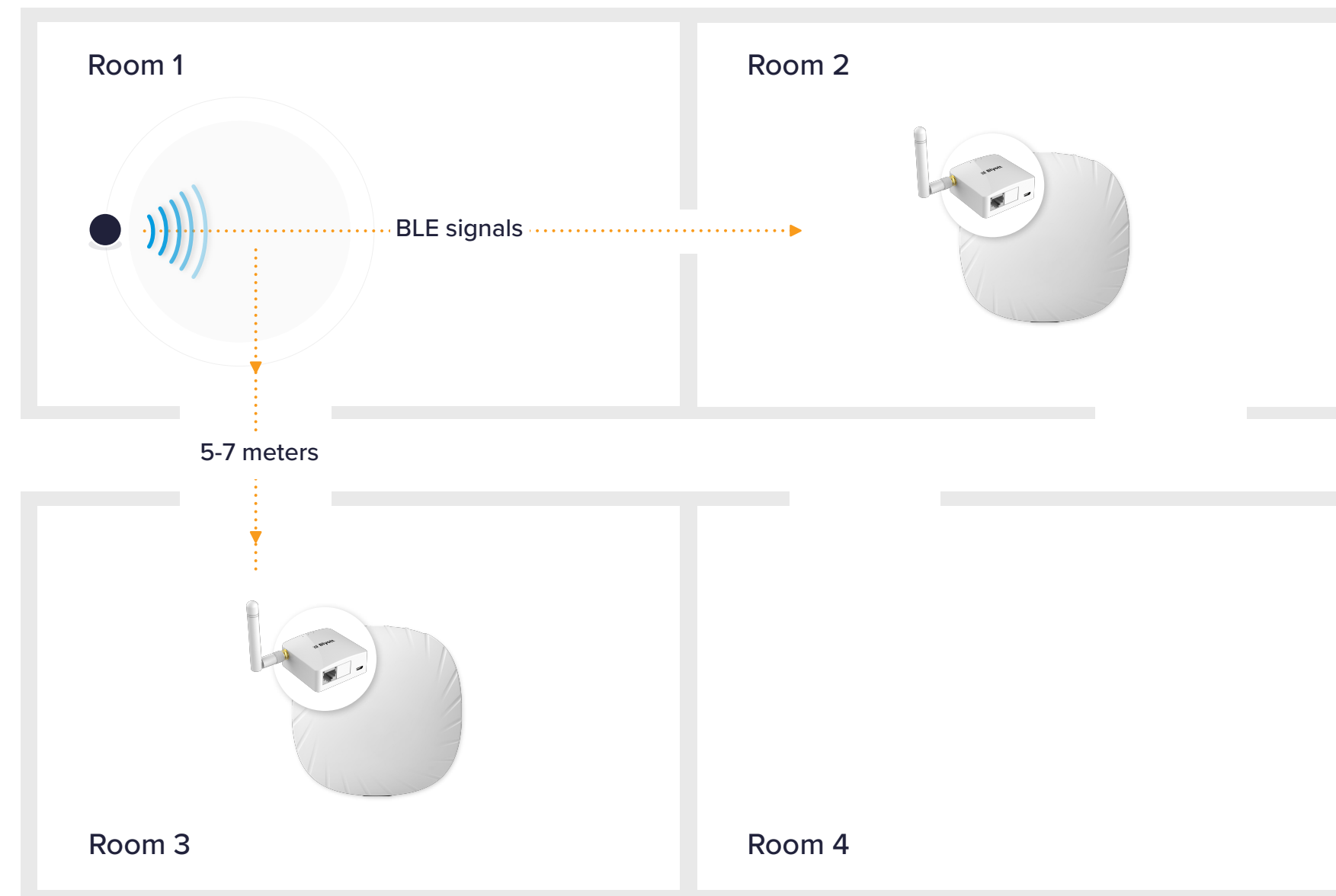No need to update any maps of your premises. Room numbers stay consistent.

✔ **Direct information**

Just a room number, no map-reading skills required, making it super simple to locate assets.

Our ML$^{(*)}$ prediction engine improves accuracy


Standard location accuracy

The system displays Room 3 as the sensor location because it has a higher signal strength (RSSI) due to the BLE locator in Room 3. Location accuracy is dependent on the m2 per BLE locator; e.g. 1 BLE locator per 100m2 translates into an accuracy of 5-7 meters.
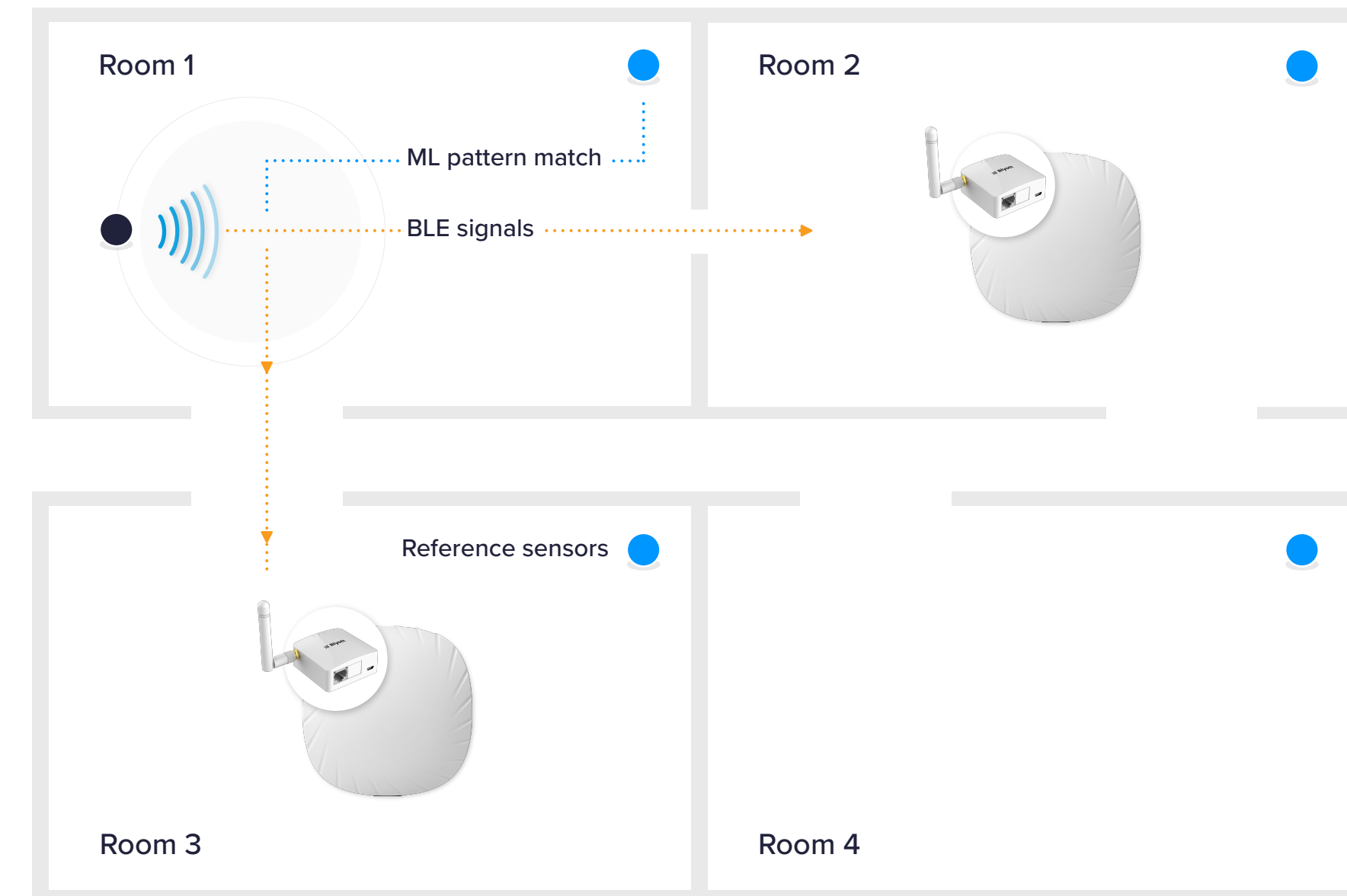
Location accuracy with machine learning

Next to the two BLE locators in Room 2 and Room 3, each room has also been equipped with a reference sensor. The system will now display Room 1 as the sensor location because the ML pattern of the mobile sensor corresponds with the reference tag in Room 1.

(*) ML stands for "Machine Learning"
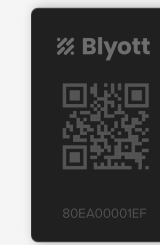
Meet all the Blyott Sensors
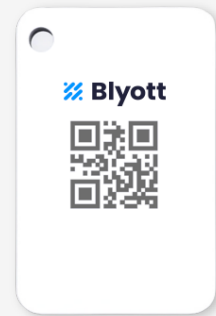
All-round Sensor BT-T2

Versatile sensor for precision and long-lasting performance.

Patient Sensor BT-B1

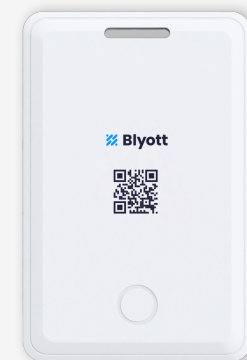Real-time patient tracking, secure and privacy compliant.

Tiny Sensor BT-TT

World's tiniest battery-powered sensor for smaller assets.

Heat Sensor BT-R2

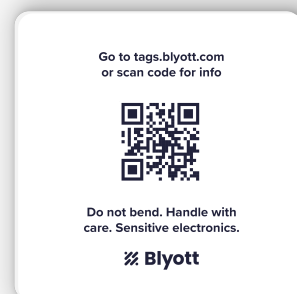Suitable in extreme conditions, temperatures up to 150°C.

Badge BT-BD

Multi-functional badge for staff localization, access and safety.
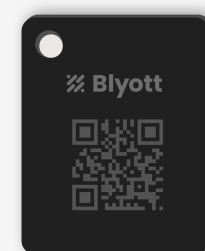
Mobile Locator BT-M1

Mobile BLE scanner with GSM and GPS for off-site tracking.

Sticker Sensor BT-BS

Ultra-thin, battery-powered sensor for tracking small assets

Ruggedised Sensor BT-R1
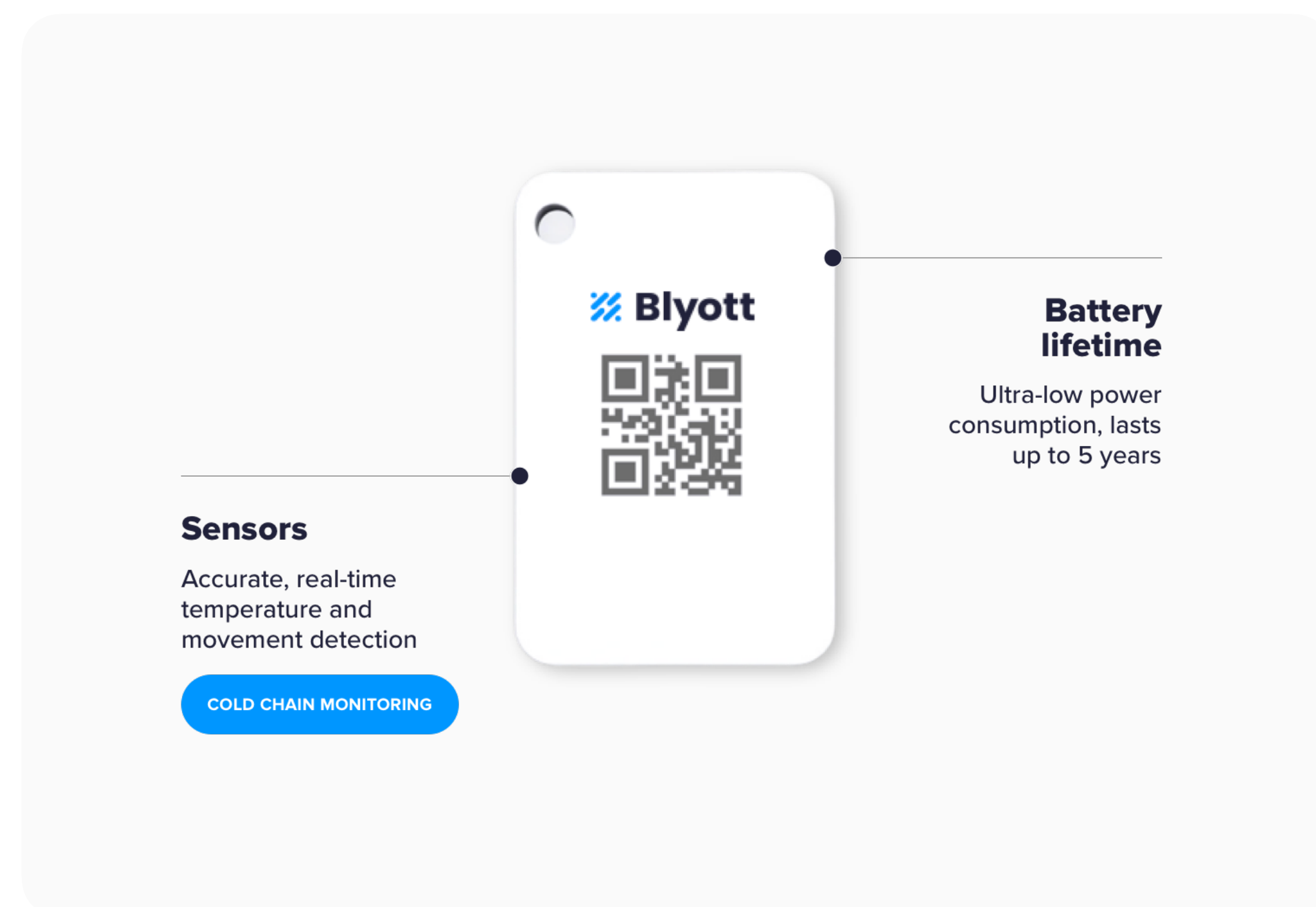
Accurate monitoring in extreme conditions and cold chain.

Fixed Locator BT-L1

For remote management and secure communication.

Product passport:
Blyott All-Round Sensor BT-T2

Battery lifetime

Ultra-low power consumption, lasts up to 5 years

Sensors

Accurate, real-time temperature and movement detection
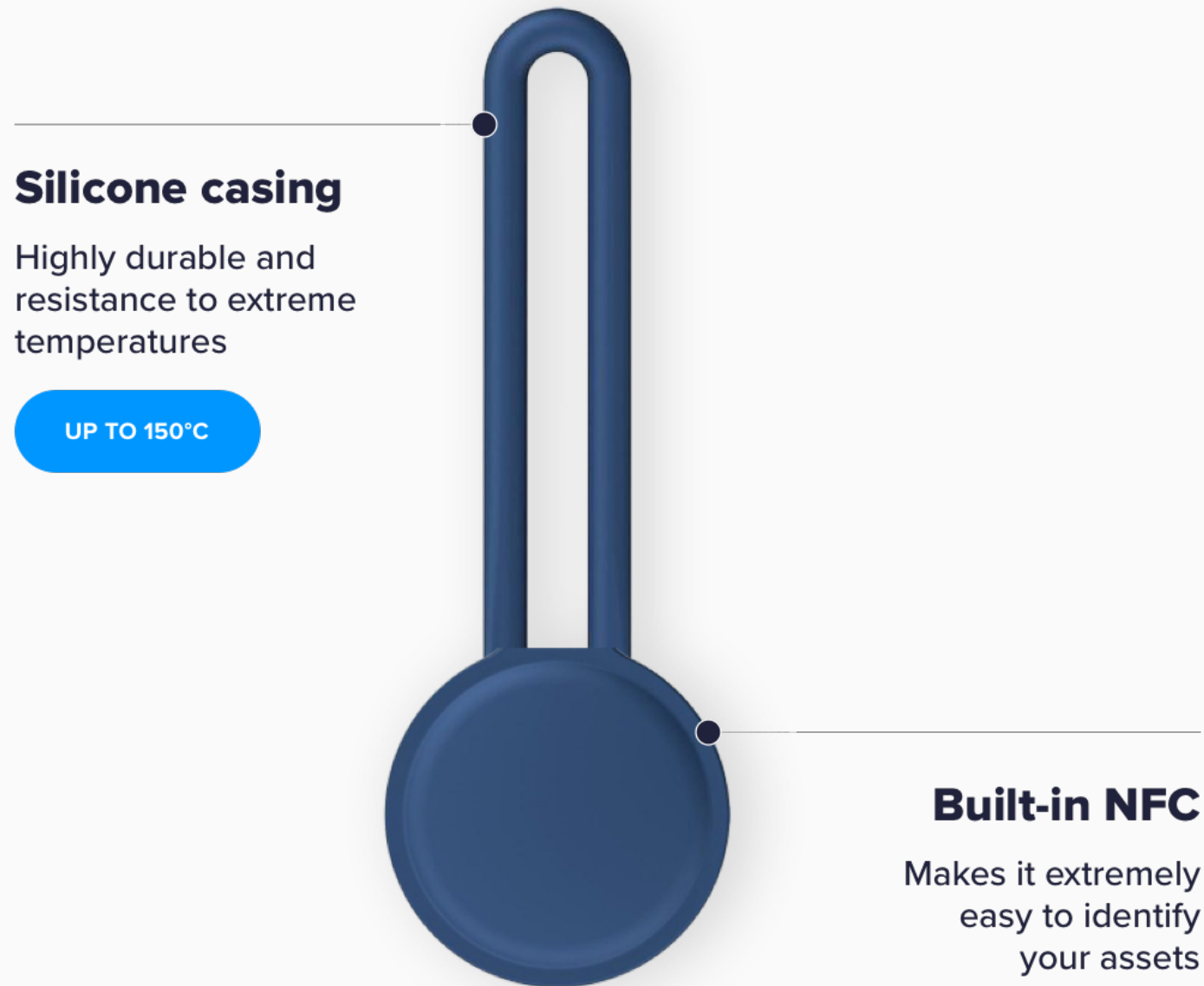
COLD CHAIN MONITORING

Meet the All-Round Sensor BT-T2

Track, monitor, and manage your assets with this versatile sensor. Built for precision and long-lasting performance.

Battery	CR2032 - 3 volts lithium battery
Battery lifetime	Up to 5 years depending on the sensor configuration and usage
Broadcasting range	Up to 15 m / 590.55" (-5 dBm; RSSI @ 12 m / 472.44" = -100 dBm)
Location accuracy	Depends on the available Wi-Fi and Bluetooth(*) infrastructure
Dimensions	38 mm / 1.49" x 24 mm / 0.94" x 5 mm / 0.19"
Casing	The casing comes in white
Operating temperature	-10°C to +60°C / +14°F to +140°F

(*)The Blyott solution is compatible with Wi-Fi AP's enabled with Bluetooth® technology from various vendors. Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

Product passport:
Blyott Heat Sensor BT-R2

Silicone casing

Highly durable and
resistance to extreme
temperatures

UP TO 150°C

Built-in NFC

Makes it extremely
easy to identify
your assets

Meet the Heat Sensor BT-R2

Easily keep track of your (mobile) assets, even in extreme conditions. This sensor operates in high temperatures up to 150°C.

Battery	CR2450W Li-Ion
Battery lifetime	Up to 5 years depending on the sensor configuration and usage
Broadcasting range	Up to 15 m / 590.55" (-5 dBm; RSSI @ 12 m / 472.44" = -100 dBm)
Location accuracy	Depends on the available Wi-Fi and Bluetooth(*) infrastructure
Temperature accuracy	Temperature sensor with an accuracy of 2°C / 3.6°F
Dimensions	40 mm / 1.57" (D) x 7 mm / 0.27" (H) x 80 mm / 3.14" (length of loop)
Operating temperature	-20°C to +150°C / -4°F to +302°F (during a few minutes)

(*)The Blyott solution is compatible with Wi-Fi AP's enabled with Bluetooth® technology from various vendors. Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

Active versus passive sensors (Bluetooth vs RFID)

Aspect	Active Sensors (BLE)	Passive Sensors (RFID)
Range	Up to 100 meters or more	Few meters
Energy	Low energy, long battery life	No battery required, "energized" by the readers
Sensors	Moderately priced, decreasing over time	Very cheap, active more expensive
Infrastructure	Inexpensive and compatible with many Wi-Fi AP's	Requires expensive dedicated readers
Data & functionality	Can transmit more data, sensor integration	Primarily for identification
Applications	Versatile: tracking, monitoring, etc.	Specific: mainly inventory & ID tracking

Asset tracking and inventory monitoring with real-time insights

✔ Implement fast   ✔ Track everything with ease   ✔ Boost efficiency

THANK YOU FOR YOUR ATTENTION
www.blyott.com - info@blyott.com

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