

Retail Operations Intelligence

365mesh

Real-time visibility across stores, distribution centres and fulfilment environments.

Store Safety | Behavioural Analytics | Shrink Visibility | Asset Tracking | Click & Collect | DC Safety | Energy Monitoring | Theft Detection | Realtime Cargo Tracking

The Retail Operations Challenge

Retail environments are harder to manage than ever.

Retailers are managing more incidents, higher customer expectations, tighter operating costs and increasingly complex fulfilment requirements. **Store teams need better visibility across customer-facing areas**, checkouts, exits, service desks, back-of-house areas, stockrooms, loading docks and Click & Collect zones. **Distribution teams need live visibility across people**, vehicles, assets, pallets, cages, dispatch areas and high-risk workflows.

365mesh brings these environments together into **one operational intelligence layer**.

Key Challenges:

- › Frontline worker safety;
- › Theft and shrinkage;
- › Checkout and exit blind spots;
- › Stock and asset visibility;
- › Click & Collect bottlenecks;
- › Loading dock and DC safety;
- › Energy and facility cost pressure;
- › Manual incident reporting.

See what is happening. Act faster. Improve performance across every site.

Secure end-to-end IoT solutions with advanced AI capabilities



EDGE AI CAMERAS & SENSORS

Monitors everything, everywhere, including video analytics, edge AI cameras, sensors, telemetry, drone & terrestrial scanning and federated data lakes.



NETWORK & CONNECTIVITY

Inter-cloud links, ELT data pipeline transport, 4G/5G, LPWAN, NB-IoT – ensuring pervasive connectivity from edge to core. Always on, 100% coverage of the Earth's land and water surface.



365MESH CLOUD DATA PROCESSING

Unified Lakehouse Data architecture with ingestion pipelines, rich AI analytics and BI dashboards. Supports both batch and real-time data processing



APPLICATION & INTEGRATION

White-labelled dashboards, workflow automation, API integrations with ERP, CRM, SCADA, GIS and industry-specific platforms.



DIGITAL TWIN

High-resolution 3D digital replicas of physical systems, powered by IoT sensors, photogrammetry, and LIDAR. Real-time and historical state modelling for simulation and planning.



ASSET MANAGEMENT

Full lifecycle visibility. AI-powered diagnostics, predictive and preventative maintenance, condition-based monitoring, and compliance tracking.



PRECISION TRACKING SOLUTIONS

Indoor & outdoor location intelligence, geofencing, cold chain integrity, mobile asset tracking, and anomaly detection in logistics.

Anywhere, Anytime Connectivity

- › Ethernet
- › LoRaWan
- › Wifi
- › Satellite

Managed Services Provider operating

24x7

NOC (Network Operations Centre)
in Sydney and Melbourne.

100% coverage

From city centres to the most remote locations, we keep everyone connected.



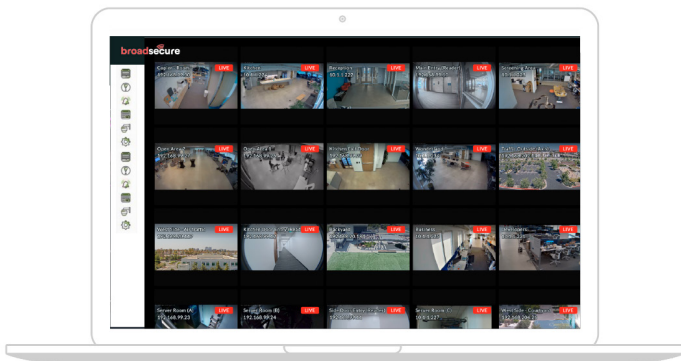
The 365mesh Platform

One platform for connected retail operations.

365mesh connects existing cameras, IoT sensors, asset tags, RFID workflows, energy meters and operational data into one real-time dashboard. The platform helps retailers detect events, generate alerts, re-view incidents, monitor assets, understand customer movement and report on operational performance.

Platform Inputs:

- Existing IP cameras;
- AI Video Analytics;
- IoT sensors;
- RFID and stock data;
- Asset tags;
- Energy and water meters;
- Environmental sensors;
- Facility systems;
- POS and operational data.



Platform Outputs:

- Real-time alerts;
- Incident evidence;
- Behavioural event detection;
- Heatmaps and people counting;
- Floor map dashboards;
- Asset and inventory visibility;
- Energy and facility reporting;
- AI-Assisted insights.

Connect the systems retailers already use and turn them into
Actionable Operational Intelligence.

➤ **Faster response. Better evidence. Safer stores.**

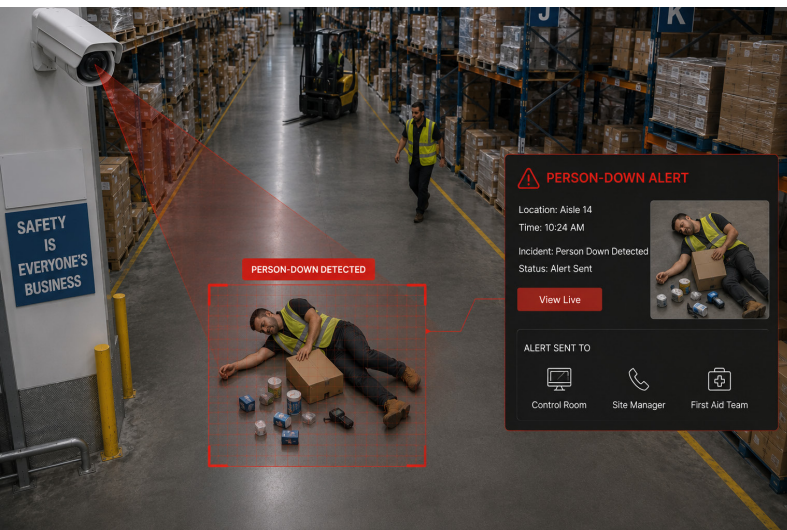
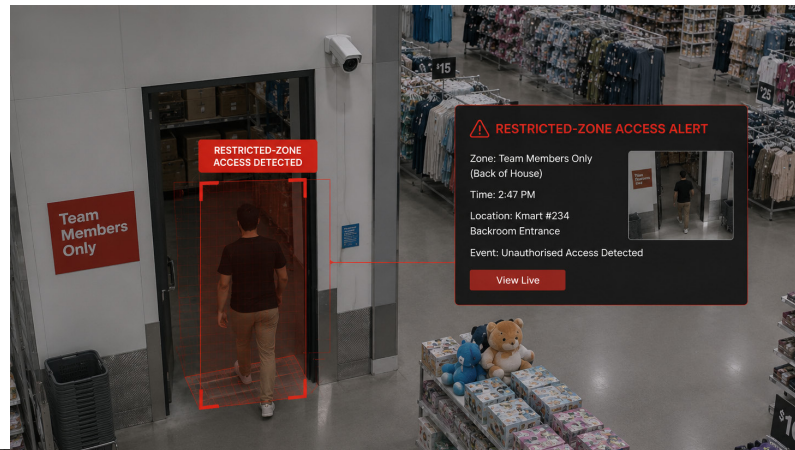
Store Safety Intelligence

Protect frontline teams with real-time store safety visibility.

365mesh transforms existing cameras and sensor infrastructure into an active safety layer across retail stores and back-of-house environments. The platform helps **detect high-risk behaviour, restricted-zone access, after-hours activity, person-down events and unsafe movement patterns.**

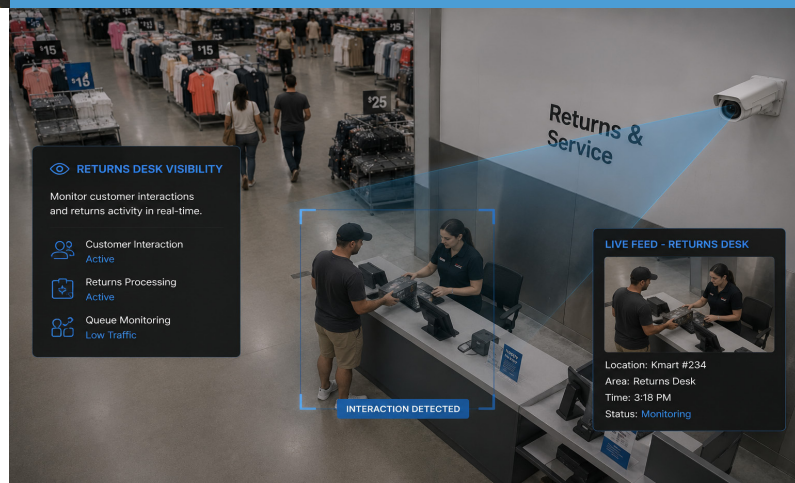
Use Cases

- **High-Risk Behaviour Detection**
Identify threats before escalation.
- **Restricted-Zone Access Alerts**
Instant alerts for unauthorised access.
- **After-Hours Monitoring**
Visibility when stores are unattended.



- **Person-Down and Fall Detection**
Rapid response to safety incidents.
- **Entry and Exit Monitoring**
Monitor site access.
- **WHS Reporting Support**
Support WHS compliance.

- **Incident Evidence Capture**
Capture critical evidence.
- **Returns Desk and Service Counter Visibility**
Oversight of customer-facing interactions.



Behavioural Analytics and Shrink Visibility

365mesh uses AI-powered behavioural analytics to **identify abnormal movement patterns, suspicious activity, restricted-zone access and high-risk behaviours across stores, checkouts, exits and back-of-house environments**. Real-time alerts and event-based reporting help teams respond faster, reduce shrinkage blind spots and improve investigation workflows.

Operational Applications



Suspicious behaviour detection

Identify potential problems quickly and isolate recurring problems



Abnormal movements alerts

Produce an alert triggering around unusual movement and restricted areas



Event-based incident reporting

Automated incident documentation so incidents don't get missed



Checkout and exit risk visibility

Improve your visibility across critical exit points and automate triggers for specific behaviours



Repeat incident pattern visibility

Identify recurring loss patterns, automate incident pattern recognition and receive reports



High-value area monitoring

Enhance oversight of valuable stock and high-value areas



Service counter incident review

Review interactions with full context for market research or resolution of incidents.



Back-of-house access monitoring

Utilise tags to implement site monitoring around back-of-house zones

- **Reduce shrinkage blind spots and improve visibility across high-risk store areas.**



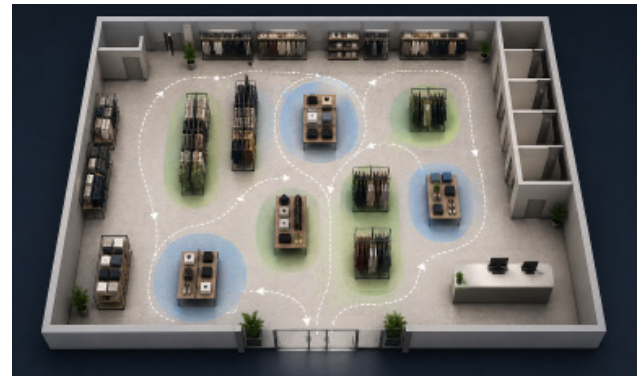


Monitor critical areas and customer movement

365mesh allows retailers to create digital zones around sensitive or high-risk areas. Heatmaps, people counting and movement analytics help teams understand customer flow, queue pressure, dwell time and staff deployment opportunities.

Improve how your stores operate based on actual data

Monitor the areas that matter most and improve how stores operate. Combine video analytics, IoT sensors and operational data to deliver actionable insights into customer behaviour, store performance and asset utilisation, helping drive smarter retail operations.

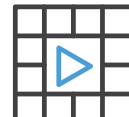


Custom Zones. Floor Maps. Customer Flow.



Custom zone monitoring

Narrow down areas of interest. Collect data and set up alerts that occur only within this zone.



Single dashboard with floor MAP

Shows all camera locations with one-click access to live video feeds.



Restricted-area alerts

Produce an alert triggering detection zone around restricted areas.



Camera location visibility

See coverage across every zone and optimise visibility.



Customer movement heatmaps

View the way people or objects move around areas, including Push events/triggers.



People counting

Measure customer traffic, occupancy and patterns in real time.



Queue monitoring

Understand queue pressure and dwell time through different times of the day and zones of the store.



Store layout optimisation

Use customer flow insights to improve layouts, staff allocation and operational efficiency.

Inventory, Asset and Click & Collect

Improve visibility from receiving, to shelf, to customer collection.

365mesh helps retailers track assets, monitor movement and support more reliable fulfilment operations across stores, back-of-house areas, distribution centres and Click & Collect zones.

The platform can support asset tracking, RFID workflows, order staging visibility, pickup area monitoring and backroom-to-floor movement visibility.

Asset & Inventory Visibility

- Asset tracking;
- RFID workflow support;
- Cage, trolley and pallet visibility;
- Handheld device and scanner tracking;
- Backroom-to-floor movement visibility.

Order Fulfilment & Customer Experience

- Order staging visibility;
- Pickup area monitoring;
- Queue pressure alerts;
- Customer handover visibility.

Predictive & Preventative Asset Management

The 365mesh platform empowers maintenance teams to efficiently **track asset conditions, detect anomalies, and respond proactively through advanced remote monitoring capabilities.**

Our **Asset Performance Management with Condition-Based Monitoring (CBM)** offers a cost-efficient alternative to conventional preventative maintenance, utilising real-time monitoring through IoT sensors. This method not only cuts downtime and operational expenses but also leverages edge computing and AI for immediate data analysis and early fault detection. The approach effectively monitors machinery, vehicle and asset health with the following benefits:



Enhanced Maintenance Efficiency:

allows for real-time monitoring and precise maintenance scheduling. This reduces unnecessary maintenance, saving time and resources while extending the lifespan of machinery.



Cost Reduction Strategies:

economic advantages of switching from traditional preventative maintenance to IoT-enabled CBM, minimising downtime and reducing operational costs through targeted maintenance can significantly impact your bottom line.



Advanced Fault Detection:

Gain insights into how edge computing and AI contribute to the early detection of equipment faults. Understand the role of various sensors in identifying potential issues before they lead to system failures, thereby enhancing operational safety and reliability.

Broadsecure Use Cases



Intelligent, cloud based video surveillance solution

With advanced AI/ML capabilities



Compatible with users' existing cameras

No need to replace cameras



Single dashboard with floor MAP

Shows all camera locations with one-click access to live video feeds



Streaming back-up to cloud

Multiple storage durations for footage: 30, 60, 90, 120, 180 Days (custom)



Image Detection and Identification

Advanced AI/ML capabilities to accurately process and detect items off footage



Object Identification

AI capabilities to accurately identify objects



Animal Identification

AI capabilities to accurately identify species of animals



Identify and classify by people demographics

AI capabilities to identify age, gender, colour and type of clothing



Identify only people of interest

Protect the privacy of people outside the watch list with a no biometric data saving enabling option



Behavioural analysis capabilities

Manage and analyse people's behaviours to optimise standard operating procedures



Allow Motion Search

Search and filter through a library of motions within specific area of interest in the video stream. Set an alert for any activity within a particular area of interests.



Face Search with integration into AD

Pull up a library of faces detected and select one to see all the times and dates of when they were identified in footage



Motion heat maps

View the way people or objects move around areas, including Push events/triggers



Person tracking based on facial or electronic tag Utilise tags and facial

Recognition to implement site safety monitoring and automate time attendance



Create custom zones

Narrow down areas of interest on a field of view. Collect data and set up alerts that occur only within this zone



Create virtual fences and boundaries

Create landscape boundaries on a digital map and contain people/animals using tags



History View

View the history of data collected which updates every hour, up to 120 days



ONVIF compliant

Remotely control the cameras' zoom, focus etc



Real time camera surveillance

With intelligent detection directional pan, tilt and zoom capabilities



Share access

Send incident alerts to anyone via sms and email

Workplace Safety



Detect workplace incidents and alert before they happen

Identify potential problems quickly and isolate recurring problems



Man down detection and alerting

Instantly trigger alerts so immediate action can be taken



Workplace machinery exclusion zone monitoring and detection

Keep unauthorised personnel safe and distant from caution zones



Pedestrian vehicle/machinery accident detection

Reduce the risk of vehicle-pedestrian collisions in busy workspaces



Machinery safe distance monitoring and alerting

Produce an alert triggering detection zone around machines and restricted areas



Collision detection and avoidance

Install blind spot detection cameras, giving drivers real-time warnings of collision risks



PPE monitoring, detection and identification

Identify PPE and deny workers from entering job sites if all the safety wear required is not detected



Realtime electronic tags for unique identification

Utilise tags to implement site safety monitoring around exclusion zones

Distribution Centre Safety & Workflow Intelligence

Transform warehouse and distribution operations with **real-time visibility across receiving, storage, picking, staging, loading and dispatch zones**. The platform delivers actionable insights into safety events, movement patterns, restricted-area access, loading dock activity and operational bottlenecks, helping improve productivity, streamline workflows and support safer, more efficient operations.

Pedestrian vehicle/machinery accident detection

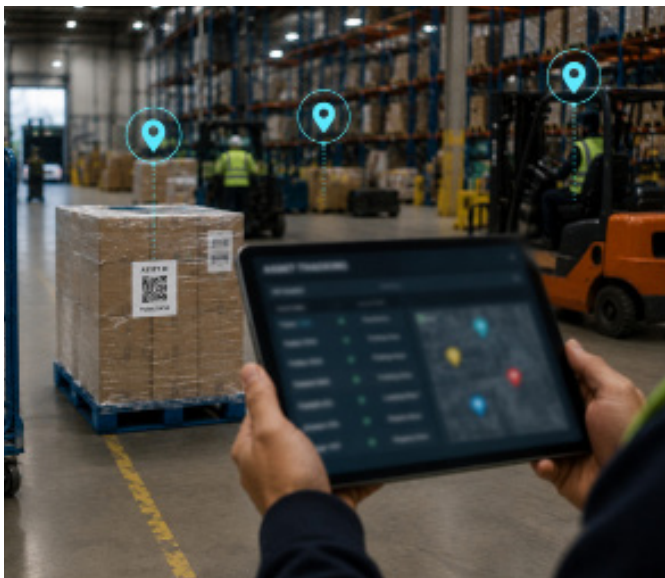
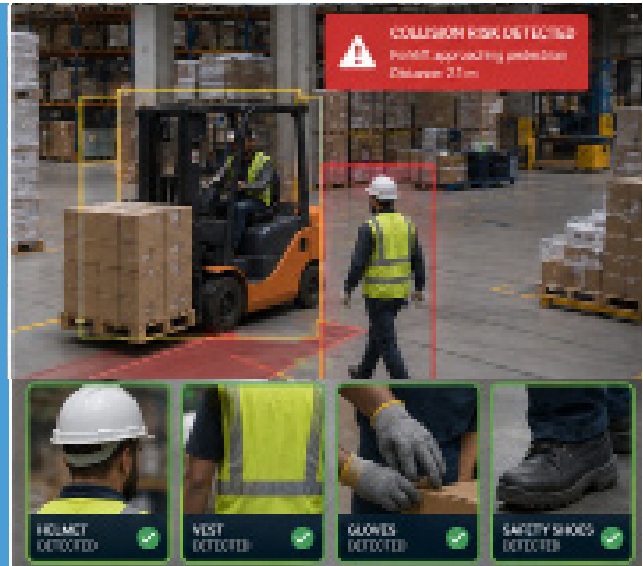
Detects when a moving person and vehicle are in a potential path of collision and advises of safer walking path practices.

Detect potential workplace incidents

Determine safe distances between workers and machinery with exclusion zones.

PPE and compliance support

Identifies PPE items and monitors whether workers are properly wearing it while on site.



Loading dock monitoring

Accurately monitors and detects for loading times, queues, loading dock intrusions, theft and work-flow.

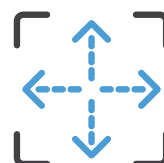
Restricted-zone alerts

Create virtual exclusion zones and receive alerts when unauthorised workers enter that zone. Integrates with machinery, and stops it if the virtual boundary is crossed.

Pallet, cage and asset tracking

From pallets, cages and trolleys to handheld scanners, mobile devices and high-value assets, our solution delivers real-time visibility across the distribution centre.

Safer DCs. Faster workflows. Stronger WHS reporting.



AI Insights & Reporting

Ask questions. Get operational answers.

365mesh converts camera, sensor, asset and facility data into clear, actionable insights. Leverage AI-driven analytics to uncover trends, investigate incidents and generate reports with ease. By bringing operational data into a single view, teams can reduce manual effort, improve visibility and make faster, more informed decisions.

Example Questions

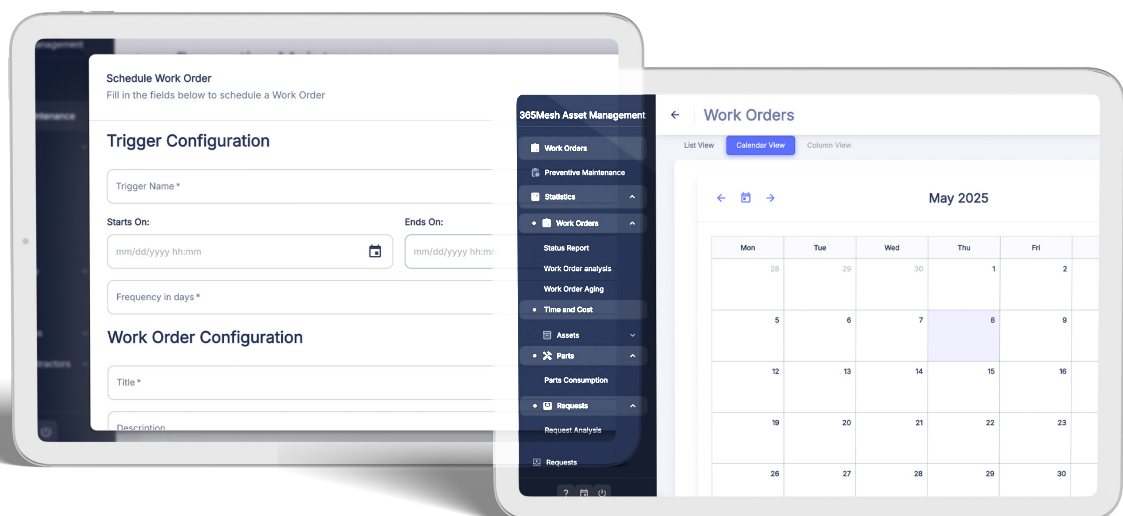
- > "How many theft-related incidents occurred this week?"
- > "Which zones had the highest customer dwell time?"
- > "Were there any after-hours safety alerts last night?"
- > "Which assets were not returned to the correct area?"
- > "What were the busiest Click & Collect periods yesterday?"
- > "Where are we seeing repeated fall or trip incidents?"
- > "Which stores had abnormal energy usage this week?"



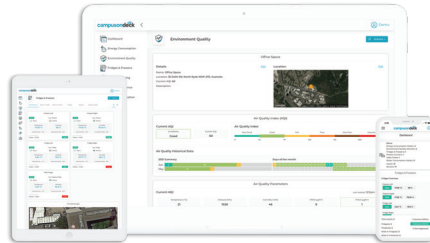
Connect the systems retailers already use and turn them into
Actionable Operational Intelligence.

- > **Less manual review. Faster decisions. Actionable insights.**

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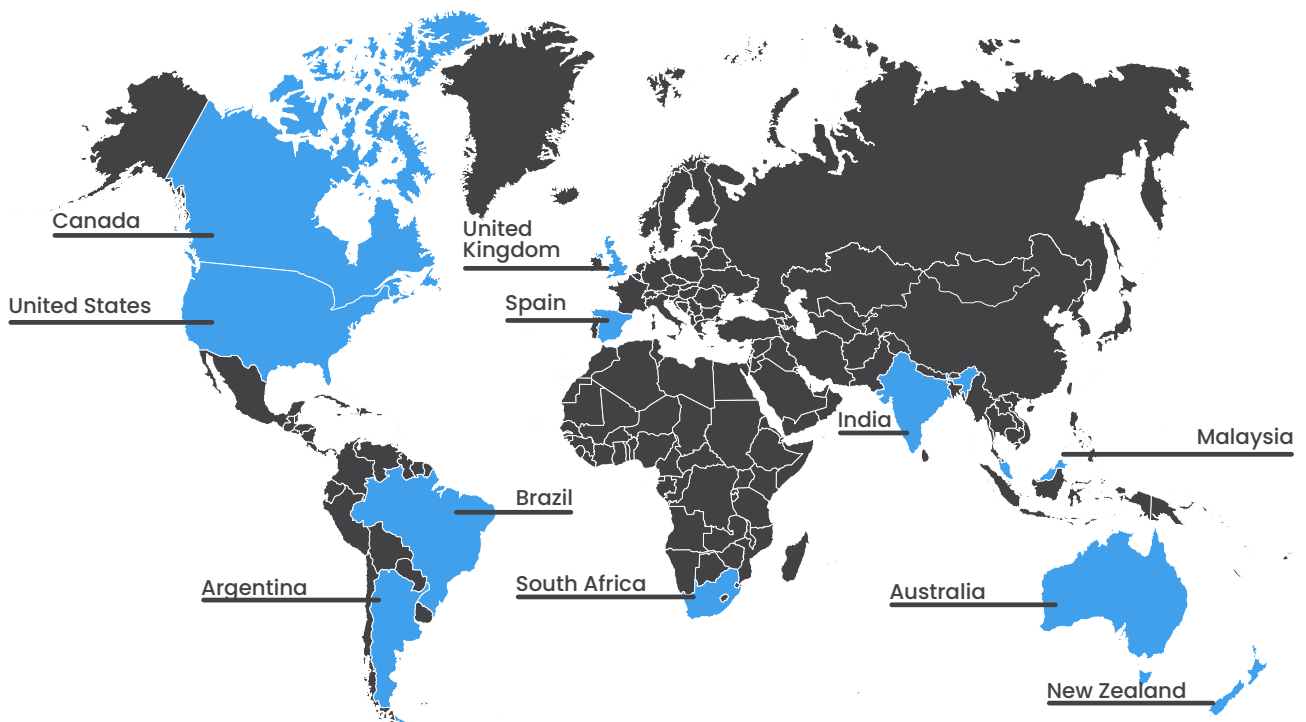


Helping retailers connect physical environments,
operational systems and real-time data into
one intelligent platform.



WE ARE FOUND GLOBALLY

Australian based, owned & operated with local manufacturing capabilities



Contact us

Follow us on social media

@365mesh

Join our Reseller Program

Direct customer enquiries welcome
or alternatively, we will introduce you to
a relevant skilled 365mesh integration
partner in your region.