

Roambee enables on-demand real-time visibility, tracking and condition monitoring for goods and assets indoors, outdoors, and in-transit.



Roambee, an Arrow partner, enables enterprises to monitor goods and assets while providing real-time intelligence to drive operational efficiency, reduce losses and increase profitability. Over 150 top-tier enterprise businesses around the world now trust Roambee to provide superior technology and a managed services business model unmatched by the competition. The company's location-aware cloud platform, flexible and affordable devices, and advanced analytics combine with machine learning to deliver actionable information that drive continuous improvement through an on-demand business model. Using integrated hardware components (Bees) that can be affixed to any asset and an API platform that acts as an aggregation engine, Roambee brings an end-to-end monitoring and tracking solution to any supply chain.



Bees

Affix to goods and assets indoors, outdoors and in-transit, and provide near real-time location and condition monitoring. Bees can also act as a fixed hotspot for transmitting data from BeeBeacon and other 3rd party devices.



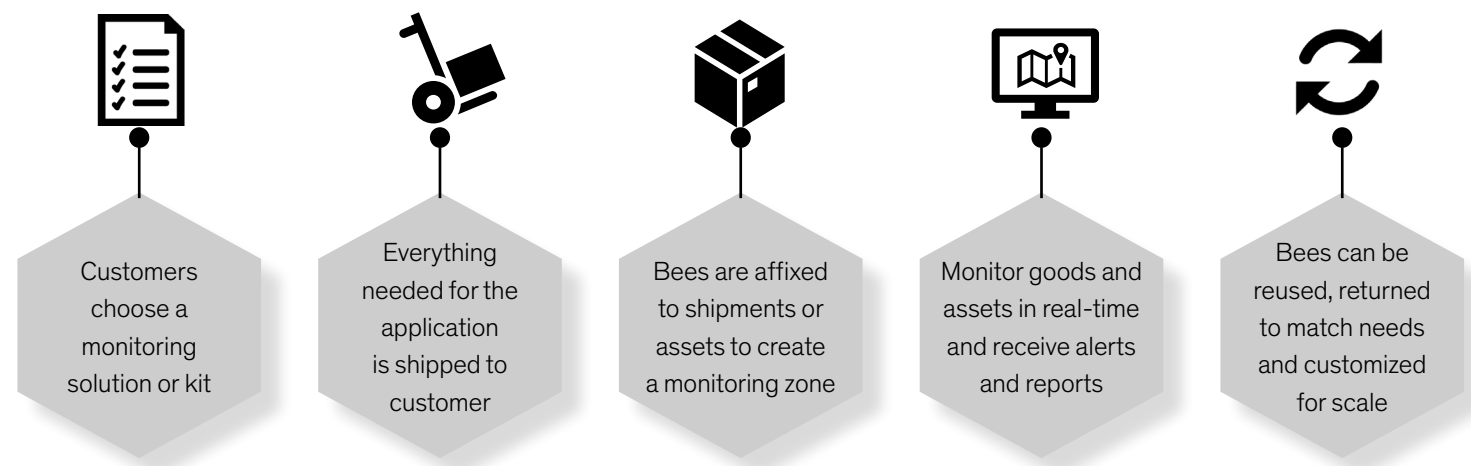
Honeycomb API Platform

Receives and aggregates data from the Bees and makes actionable information available through the Roambee portal and mobile app.

Roambee technology implementations are simple, fast and effective. Businesses can deploy Roambee technology for a variety of purposes:

- > Monitoring inventory and assets inside factories, warehouse and other indoor locations
- > Monitoring equipment yards, automotive lots and other outdoor settings
- > Monitoring packages, goods and assets in-between destinations and while in transit
- > Comprehensive real time end-to-end monitoring of assets

Once the application and expected business result is identified adopting Roambee infrastructure happens easy steps:



Bees can be used as a standalone solution, with other 3rd party systems, or with BeeBeacons, BeeFleet and BeeLock for an end-to-end, fully integrated shipment and asset monitoring solution.

Customer Benefits:

- > **Real-time monitoring** enables end-to-end visibility of all assets
- > **Actionable data and reporting** via Roambee platform and mobile app ensure that asset data drives insight
- > Roambee is **transport mode agnostic** allowing, shipping and package level monitoring by road, air or sea locally and globally
- > **On demand managed service** requires no upfront investment in hardware/software or data connectivity and is 100% pay-as-you-go
- > **Cloud infrastructure** allows for quick deployment and scale
- > **Open API platform** makes integration with existing systems simple and rapid
- > **Smart devices** constitute an array of sensors encased in rugged shells and long-life batteries and can suit any need
- > **Quality customer care** provided by well-trained monitoring service 24/7/365



Customer Challenge:

Food producers, packagers and shippers need to keep food fresh and safe from the time of production to the time of customer purchase. RFID dataloggers are widely used in the retail industry but are not generally reliable as they are not real-time. Customers seek a better food monitoring and tracking system to avoid food loss, keep food safe and deliver fresh goods.

Roambee Solution:

To drive timely action when there is a potential or actual temperature problem in the package, refrigerator or container real time data is needed. Roambee deployed BeeBeacon, a Bluetooth low energy enabled device for temperature monitoring and aggregated the data using cloud-based infrastructure. The customer now had access to the real-time temperature information on his mobile device without needing to spend enormous amounts in implementing new infrastructure. Since Roambee infrastructure is procured as a service, the customer benefited from a pay-as-you-go model while upgrading to the state-of-the art monitoring technology. By using the rich data collected by Roambee, the customer was able to leverage real-time alerts on location and equipment condition. By taking proactive steps to fix equipment and moving packages/food to well functioning equipment, the customer was not only able to improve operational efficiency but also avoided expensive outages and food spoilage.



Customer Challenge:

Product availability is of utmost importance in food and beverage retail. Having low lead time, adequate personnel support and accurate delivery timing is very difficult with current fleet management solutions and is even more complex when using leased vehicles.. Customers seek a real-time solution that is highly portable and transport mode agnostics.

Roambee Solution:

To empower customers to optimize delivery routes, calculate delivery detention, and increase predictability of delivery windows Roambee deployed the Bee portable tracker embedded with shipments.. Real-time data from delivery vehicles now made it possible to understand detention time of trucks at warehouses — loading and unloading — and made it possible to estimate delivery windows better. By using real-time data in the context of historical route patterns, Roambee was able to help customer optimize the delivery approach to large and small distributors. Since the Bees are deployed at the package level, tracking and monitoring occurs regardless of the transportation mode. This is particularly useful when leased vehicles are used by the customer. Overall, the customer benefited from a flexible monitoring platform procured on demand without expensive upfront costs.

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V | Five Years Out

Incorporate BeeBeacons
BeeBeacons attach to individual packages and assets in-transit or in storage and transmit location and condition data to Bee hotspots.

Add BeeFleet
BeeFleet plugs into a vehicle's OBDII port and transmits location and sensor data.

Add BeeLock
BeeLock is a bluetooth, keyless padlock that can be used anywhere you need to secure your important goods and assets.