

**The Problem**

- You have „blind spots“ in your Supply Chain?
- No continuous monitoring of temperature-sensitive goods?
- Battery-powered IoT trackers are not cost-effective for your application?
- You have automation potential in your RTI management?
- You are not aware of the actual CO2 emissions of your supply chain?

**The Solution**

- **Batteryless Bluetooth Beacons by Wiliot**
- The chip generates the necessary energy from ambient radio waves and provides position data and temperatures
- Additional sensor data is in development: fill level, container full/empty, humidity
- **ecobyte** is solution partner of Wiliot with the focus on reusable packaging

**Standard Connectivity Leverages Existing Infrastructure**  
World's first Bluetooth certified label

**Energy Harvesting Eliminates Battery**  
100% better sensitivity than RFID, 1000x better than standard harvesters

**Antenna Imaging for Sensor-free Sensing**  
Temperature, Proximity, Content Level  
Future: Humidity, Ripeness and more

**Standard Computing**  
>1hA retention power is 300x better than competition, paper label production

**Wiliot - Innovation**

- The bluetooth tag uses radio waves in two frequency ranges generating power for the the chip
- Cost-effective hardware
- Massively scalable cloud solution
- High data protection and encryption standards. „My data, my property“
- This is just the beginning; ranges, costs, use cases and sensor technology are continuously evolving

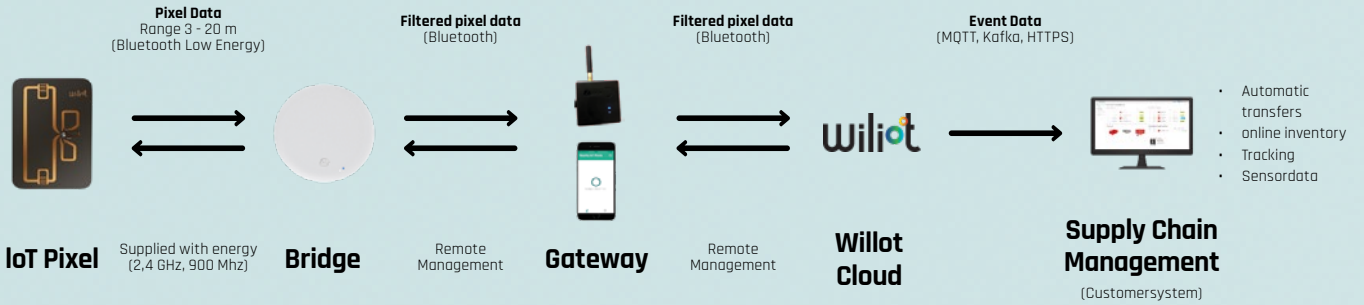
**Services provided by ecobyte**

- Customized consulting for integration into your logistic process
- Comprehensive support: from proof-of-technology, proof-of-concept, through prototyping and roll-out.
- Custom programming of visualizations, supply chain events or process automations
- Alternatively, provision of raw data for your applications
- Optional integration with our Multi-use platform „myDCE“
- Managed Services and hardware function monitoring

The current terms and conditions (AGB) as well as the special contract conditions for services can be found at: <https://ecobyte.eu>

**Additional informations**

**Data flow**



**Use case**

Tracking of zucchini from harvest through handling at the distribution center to the retail store.

Monitoring of temperatures and dwell times per crate, as well as the washing temperatures of the crates.

**Documentation in this Video:**

Youtube: @wiliot - Wiliot Farm to Store Coldchain with Israel's Leading Retailer Shufersal

Additional examples and references available upon request at ecobyte

**About ecobyte**

The Runden Group, along with its pooling companies, is moving hundreds of thousands of RTI in supply chains across Europe every day. As a part of the Runden Group and building on this experience, ecobyte digitizes reusable cycles and the goods transported within them. With logistics expertise and IT know-how, we develop digitized processes and suitable systems for the **Digital Circular Economy (DCE)**

- **Digital communication** between owners and users of RTI
- **Smart Assets** - „Intelligent“ packaging
- **Footprint** - Delivering sustainable insights from data

ecobyte.eu runden-group.eu