



# EVERYWHERE

Solutions offer the real capacity to change the world and enable a better life

In over 140 countries on every populated continent, Semtech's LoRa devices and the LoRaWAN® protocol provide the proven solution set to connect almost anything to the Cloud and create smarter, more efficient IoT applications. Explore how LoRa-based products are changing the world today!

## CARE

### Animal Conservation

Tracking sensors manage endangered species, such as black rhinos  
Poaching dropped to zero in monitored locations  
(Africa & Asia)

### Skier Safety

Ski students in Switzerland use LoRa-based trackers  
Quickly locate lost skiers  
(Switzerland)

### Dementia Patients

Wristband sensors provide immediate alerts  
Help caregivers identify patient location and health status  
(U.S.)

### Urban Noise

Sensors detect and rate city noise and its severity  
Quick authority response reduces noise pollution  
(Canada)

### Disaster Relief

Small waterproof sensors used in flooded areas  
Enable life-saving response by emergency staff  
(Worldwide)

## CONSERVE

### Island Networks

Monitor water storage levels, consumption volume and quality in real time  
Citywide water management brings savings up to 25%  
(Spain)

### IoT on Campus

Waste bin level alerts sent to staff optimizes pick up schedules  
Sensors verify parking space usage  
Disability parking spaces located in real time  
(Canada)

### Smart Farms

Real-time insight into crop soil moisture  
Optimized irrigation schedules reduce water use up to 30%  
Creates more efficient and sustainable farms  
(Europe & North America)

### Food Safety

Temperature monitoring ensures food quality  
Reduces food waste and lost revenue  
ROI achieved in less than a year  
(Switzerland)

### Water Conservation

Identification and faster repair of 1,200 leaks in city's water network  
Increased network efficiency 8%  
Saves up to 1,000,000 cubic meters of water annually  
Reduces utility cost and environmental impact  
(France)

## CONNECT

### Smart Bikes

10 million bicycles and 25 million rides monitored daily  
Bike trackers provide coverage in remote areas and dense buildings  
Rideshares reduce traffic congestion and pollution  
(China)

### Airport Tracking

GPS-free tracking monitors vehicles, personnel and luggage  
Predicts maintenance, monitors luggage and reduces energy waste  
(Turkey)

### Efficient Workspace

Monitors room occupancy, temperature, energy use, and parking availability  
Brings expected increase in real estate savings up to 15% of budget  
(Worldwide)

### Cattle Health

Sensors monitor cattle health  
Detect disease and forecast delivery of calves  
Rancher income increases up to \$1,100 per cow  
(South Korea)

### LoRa in Space

Satellites to provide LoRaWAN-based coverage worldwide  
Connects sensors in remote locations  
(Outer Space)

Visit [semtech.com/LoRa](http://semtech.com/LoRa) to explore the LoRa-based solutions offered by the ecosystem.

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