kerlink
communication is everything

# Kerlink teams up with Worldsensing to power vast smart-parking system in Los Angeles metro area

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*"Seriously, had I not seen Fastprk™ in operation with my own eyes in LA, I would not have believed how good your product works, 97-98 percent accuracy and hitting sensors from the gateway over 300 meters away, very impressive."*

**Larry Eade, Vice President Operations, Parking Sense**

## Challenge

As the public transportation authority for the Los Angeles, Calif., metropolitan area, LA Metro operates one of the world's largest metro transport systems. Serving an area of more than 3,830 square kilometers, its trains and buses carried passengers on nearly 400 million trips in 2017. But ridership is dropping. It has fallen by 15 percent over the past five years. Metro LA surveys of customers found that 80 percent of the system's park-and-ride customers spent way too much time looking for a parking space and that non-transit customers were using 30 percent of the spaces in LA Metro lots.

LA Metro needed a cost-effective way to make parking more convenient to reverse declining ridership. Additionally, while testing different parking management solutions, LA Metro bumped into the challenge of having to collect real-time data in an environment where the proximity of the parking area to the trains caused a high level of magnetic noise.

WORLD SENSING

**Company name:** Worldsensing
**Headquarters:** Barcelona, SPAIN
**Year founded:** 2008
**Industry use Case** : smart parking

## Solution

To help LA Metro control its parking spaces and gather accurate, real-time parking occupation-and-turnover data, Worldsensing developed a sensor for deployment in up to 20,000 outdoor parking spots. Worldsensing's parking management system, Fastprk, uses a combination of magnetic and magnetic-and-infrared sensors to detect the status of each parking space and send all occupancy information to a central management unit. The dual-detection sensors exceed 95 percent accuracy.

The long-range sensors can be deployed without

repeaters for up to 500 meters, making them ideal for outdoor parking deployments. With the sensing technology integrated into an advanced mobility software solution, cities and operators can connect a variety of parking systems and services to obtain end-to-end solutions such as optimized space occupation. Fastprk is also among the pioneering systems in the use of deep learning algorithms for parking predictions.
To ensure this low-power, wide-area network spanning much of the Los Angeles metropolitan area operates as expected for many years, with minimal maintenance, Worldsensing partnered with Kerlink. The company's long-range, low-power and highly reliable Wirnet™ Stations offer 49 LoRa® demodulators over nine channels and come with exclusive features for Kerlink network remote monitoring and operations management solutions the Wanesy™ Management Center.

*"LA Metro, one of the world's largest public transport providers, required a proven and reliable infrastructure to support its new smart-parking system. That's why we chose Kerlink's Wirnet Stations to connect our 20,000 sensors and keep the data flowing."*
**Victor Sanchez, Fastprk Product Manager ,Worldsensing**

## Benefits

Efficiency and eco-friendliness of public transport systems play a significant role in defining cities' progress. There are a multitude of benefits for commuters and urban areas when residents leave their cars at home because they can conveniently take public transportation throughout the region. Also, every LA commuter who can immediately find convenient parking is another happy customer of the Metro who can reach his or her destination sooner than driving and much more relaxed. More efficient parking management systems will not single-handedly solve urban traffic congestion problem overnight.

These sensor-based, wireless monitoring networks pave the way to minimizing traffic and lowering CO2 emissions. They contribute to the faster transport of goods and services because fewer passenger vehicles are on the road, while maximazing the occupancy rate for the parking operators to grant a quicker ROI on real-estate and assets investments. The recovery of ridership on LA Metro can also contribute to increased revenues that can help shorten the return on investment for taxpayers.

## Advantage of LoRa® gateways, powered by Kerlink

- Less time spent finding parking spaces
- Increased public transport ridership means increased revenues
- Less private car usage, reduced traffic and CO2 emissions
- Different types of indoor/outdoor sensors deployed according to the location requirements, which achieved more than 95 percent accuracy in spite of the magnetic noise

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