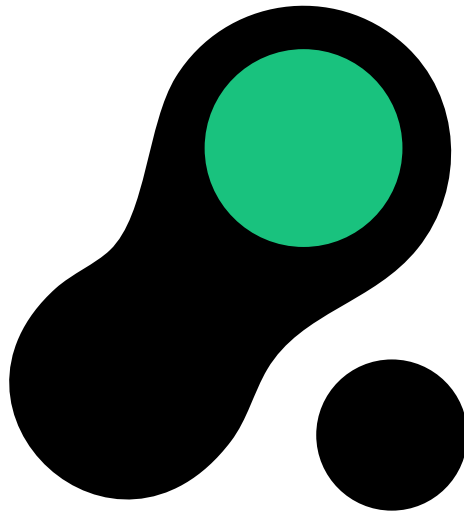




SPOTTER

**Make Your City Smarter
With SPOTTER AIoT**

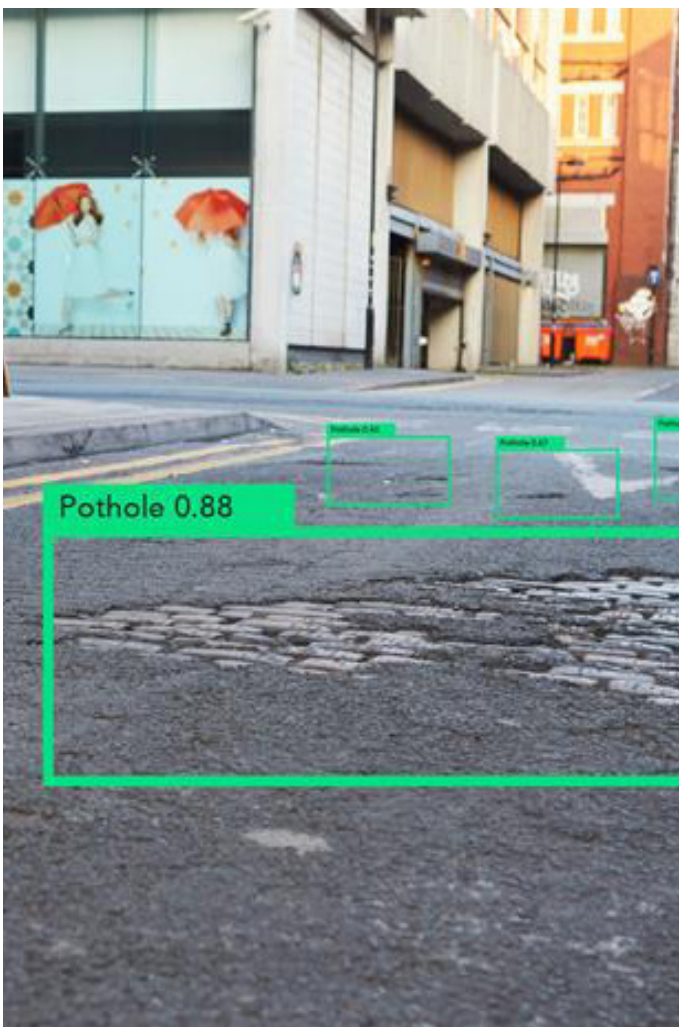
**Powered by
My Smart City and Forcelink**

Imagine if every vehicle could be fitted with an AIoT device that continuously **analyses road conditions, detecting abnormalities and enabling real-time, automatic reporting of issues.**

The Spotter Device is engineered to deliver precise, real-time road condition data. Equipped with advanced sensing technology, it effectively identifies potholes, surface cracks, and other road imperfections, supporting smarter infrastructure maintenance decisions. **Transforming road maintenance from reactive to proactive.**

Robust & Versatile Design

- Weather Resistant
- Easy Installation
- Minimal Maintenance
- Fits all Vehicles



40%

reduction in emergency repair costs can be achieved through early pothole detection.

70%

reduction in manual road surveys through automated inspections.

High-Resolution Camera Detection

- Real-time visual detection of surface deterioration
- Advanced image processing for reliable identification and classification
- Optimal performance under varying lighting and weather conditions

LiDAR Surface Profiling

- Accurate 3D measurement of potholes and road imperfections
- Detailed surface gradient mapping and volumetric analysis
- Precise dimensional data (length, width, depth) of detected features

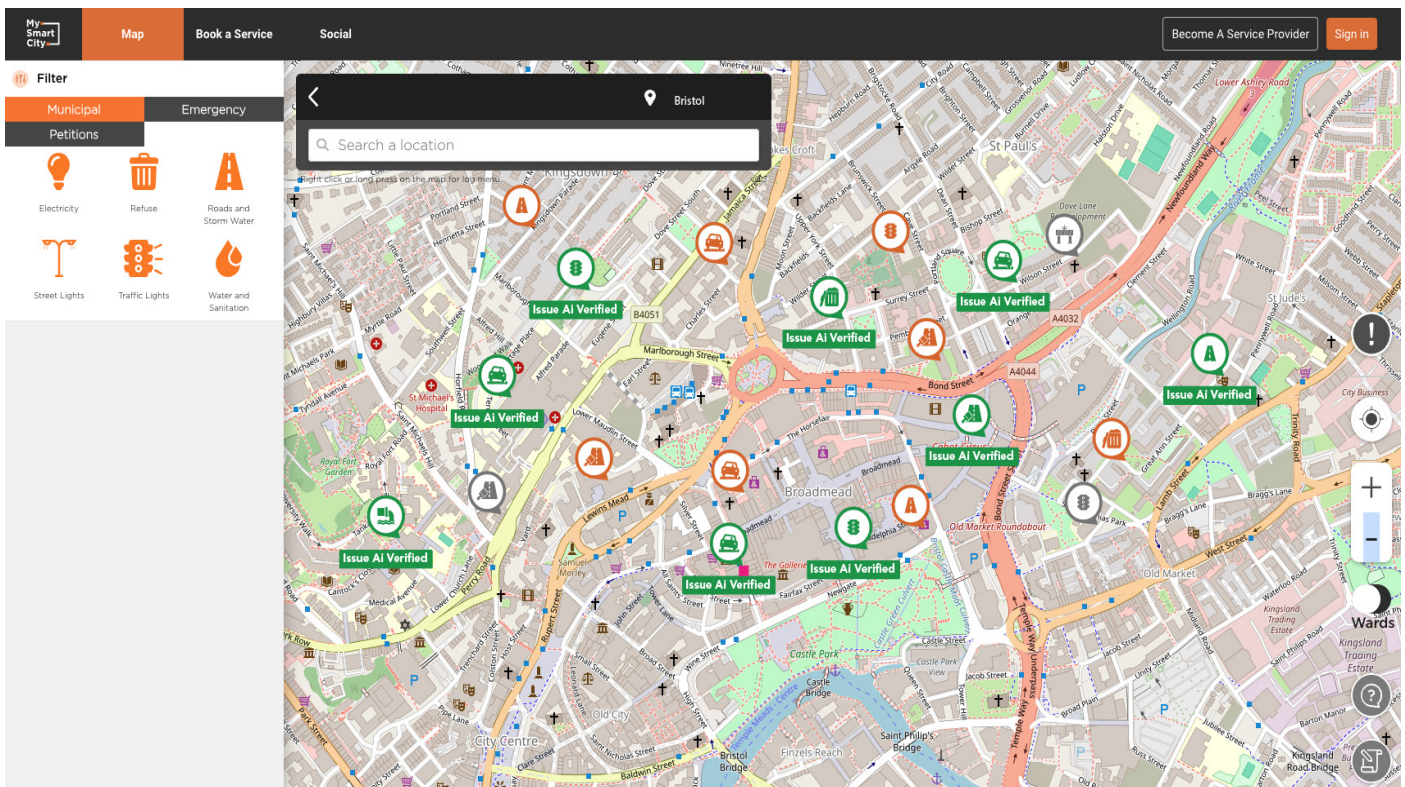
GNSS/GPS Positioning

- High-accuracy latitude and longitude coordinates
- Real-time vehicle speed and travel direction tracking
- Enhanced positional accuracy for precise mapping

Integrated LTE (4G) Connectivity

- Live transmission of road condition data directly to secure cloud servers
- Remote data access for immediate assessment and response
- Reliable connectivity with low-latency data upload





Integrates with the **My Smart City** public portal and app, improving public trust and service transparency.

- Efficient road maintenance and citizen engagement
- Seamless municipal integration, with automatic issue logging and prioritisation based on severity
- Uses existing municipal and fleet vehicles to collect data
- Live, automated issue detection from fleet vehicles

Extends road lifespan and reduces resurfacing frequency by

 **20 – 30%**

SPOTTER's versatility allows for expanded deployment.

Install SPOTTER onto any vehicle to optimise budgets, resources and service-delivery.

Minimise vehicle repair claims, saving municipalities millions annually.



Specifications	Descriptions
Detection Capabilities	Potholes, Cracks, Road Surface imperfec-
Data Output	Images, 3D LiDAR scans, Gradient,
Connectivity	LTE (4G), Continuous real-time data
Positioning Accuracy	GNSS/GPS with precision tracking
Environmental Resistance	IP-rated enclosure, rugged build
Power Supply	Compatible with vehicle power systems
Data Integration	Cloud-enabled for instant analytics