ROADSENSE

ROADSENSE USE CASES

Actionable insights for smarter cities

Roadsense Overview

Roadsense addresses critical challenges in public spaces by helping road operations teams extract **actionable insights** from data, enhancing **efficiency** and **safety** for cities. Our approach advances smart cities and smart roads using **IoT** and **AI**.

1. Radar-Based Sensors:

- Easy to deploy
- Privacy-friendly
- All-weather
- Day/Night operation
- Wireless communication
- Power source required

2. AI Analytics:

- Advanced algorithms analyze aggregated data
- Identify patterns
- Classify objects
- Discern location characteristics
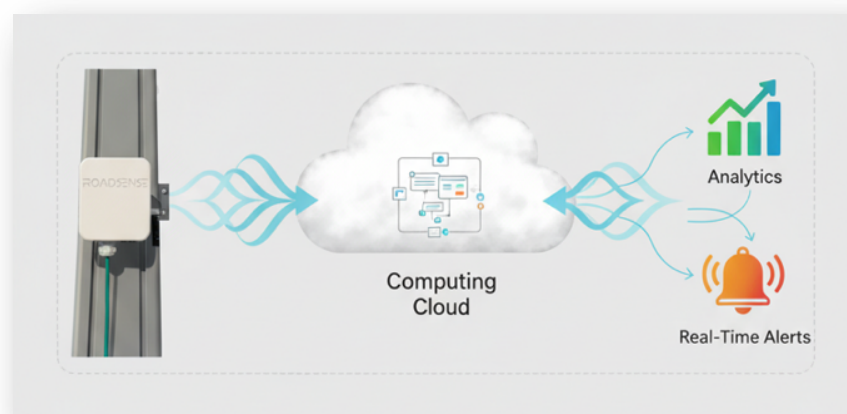
Key Use Cases

Roadsense delivers real-time alerts and insights for a wide range of use cases, empowering informed decisions and improving street safety and operational efficiency.

- **Traffic and people Monitoring:** Real-time traffic density and flow analysis to optimize traffic density and improve city's
- **Incident Detection:** Automated detection of accidents and unusual traffic patterns for faster response times.
- **Pedestrian Safety:** Monitor pedestrian and cyclist activity at crosswalks and intersections to prevent accidents.
- **Work Zone Safety:** Enhanced monitoring of work zones to protect construction workers and improve traffic flow.
- **Smart Parking:** Optimize parking management and help drivers find available spaces quickly.
- **Environmental Monitoring:** Collect data on air quality, noise levels, and weather conditions.

Summary

Roadsense offers a powerful combination of radar-based sensors, AI analytics, and actionable insights to create safer, more efficient, and smarter cities. By addressing critical challenges in public spaces, Roadsense enhances the quality of life for both road users and pedestrians.