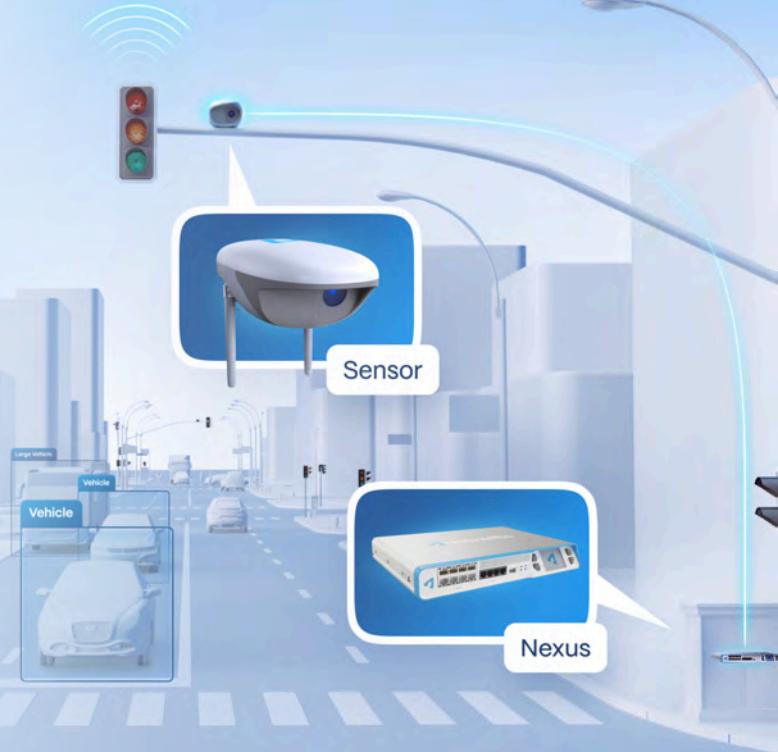


# AI Detection

NoTraffic's fusion sensors detect all road users in real-time with high accuracy, even in poor weather and lighting. By combining radar and video, the system sends precise calls to the traffic controller, enabling safer, more efficient signal operations.



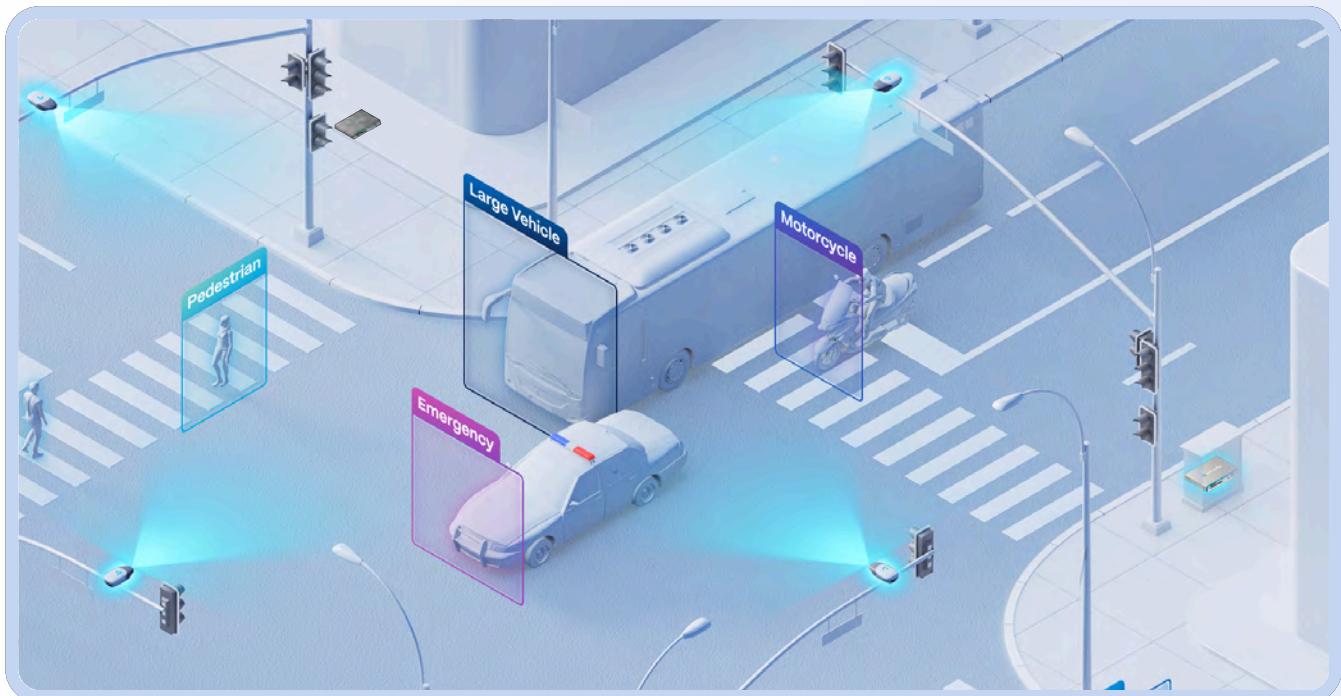
## NoTraffic at the Intersection

### Sensors

NoTraffic simplifies detection with one Sensor per approach. Each Sensor provides full coverage including: advance detection, stop bar, pedestrian crosswalks, and bike lanes. Sensors have flexible mounting options for any intersection layout.

### Nexus

The Nexus Omni supports all cabinets and controllers. Thin & rack mountable (1U /43 mm height), the Nexus is installed in the cabinet and connects directly to the traffic controller linking the intersection to the cloud with integrated LTE connectivity.



# Fusion Detection for All Road Users in All Conditions

## HD 1080 Video

- ✓ Visual verification of detection
- ✓ Object-based detection, classification, and tracking
- ✓ Lane determination

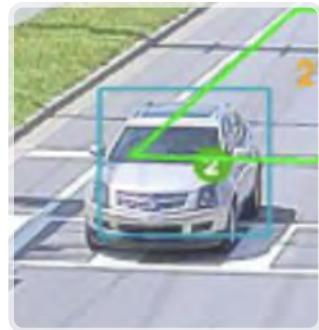
## 60 GHz Radar

- ✓ High resolution radar
- ✓ Detection of pedestrians to trucks
- ✓ Highly accurate range & speed
- ✓ Weather penetration



## True Fusion Output

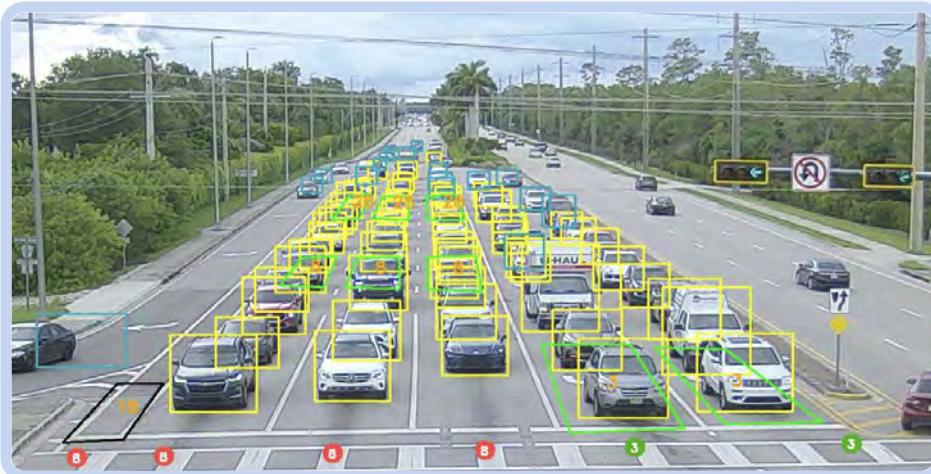
- ✓ Location
- ✓ Speed
- ✓ Lane
- ✓ Classification
- ✓ All weather detection



## Insights That Go Beyond Detection

Gain real-time, insight-rich, visibility into intersection performance and access the tools you need to assure road user safety, reduce congestion, lower emissions, and improve the quality of life for residents.

- ✓ Turning movement counts
- ✓ Signal performance measures
- ✓ Safety analytics
- ✓ Live video & real-time alerts
- ✓ Access to the Mobility Store



# From Insights to Action – Mobility Applications Store

As a centralized hub for data, analytics, and mobility applications, our platform offers software enhanced functionality to optimize traffic flow, enhance safety, and streamline operations. With over-the-air updates and V2X capabilities, it adapts to evolving needs, ensuring long-term traffic management efficiency.

- ✓ A hub for all mobility applications
- ✓ New functionality with no additional hardware
- ✓ Optimization to maximize the capacity of infrastructure
- ✓ Safety applications to meet Vision Zero Goals
- ✓ Scalable solutions for traffic management

 <b>Software-Defined Detection</b> <small>Detection</small> Enables engineers to create custom zones and configure complex scenarios, improving traffic management	 <b>Ped Actuation</b> <small>Detection</small> Detects curbside pedestrians and sends calls to controllers, eliminating the need for costly pedestrian buttons	 <b>Intelligent Transit Detection</b> <small>Detection</small> Detects and classifies custom vehicles like light rail and sends signals to controllers for optimized operations	 <b>Remote Cabinet Access</b> <small>Traffic Management</small> Leverage NoTraffic connectivity to enable remote secure access to manage traffic cabinet systems
 <b>Front Panel Access</b> <small>Traffic Management</small> Leverage NoTraffic connectivity to enable remote secure access to the traffic signal controller front panel	 <b>Near-Miss Insights</b> <small>Safety VRU</small> Uncover safety issues with statistics and videos of near-miss traffic events	 <b>Intersection Safety Insights</b> <small>Safety VRU</small> Provides deep analytics of red-light running to help agencies identify at-risk intersections to improve safety	 <b>Pedestrian Protection Zone</b> <small>Safety VRU</small> Detects pedestrians in the crosswalk and extends crossing times, enhancing safety for vulnerable road users
 <b>Dilemma Zone</b> <small>Safety VRU</small> Detects a driver's trajectory and extends the green time to reduce sudden stops and red-light running risks	 <b>ATSPM</b> <small>Analytics</small> Displays detailed measures on signal performance, helping engineers identify underperforming intersections	 <b>Comprehensive Traffic Counts</b> <small>Analytics</small> Maintains stop bar and turning movement counts by lane and vehicle class, to track improvements over time	 <b>Optimization Mode</b> <small>Mobility</small> Detects and classifies custom vehicles like light rail and sends signals to controllers for optimized operations
 <b>AI Timing Plan</b> <small>Mobility</small> Generates AI timing plans that leverage accurate, detailed, traffic data generated from fusion AI Detection	 <b>Vision-based Transit Signal Priority (v-TSP)</b> <small>Mobility</small> Automated transit vehicle detection and prioritization without the need for additional fleet hardware	 <b>Emergency Vehicle Preemption (EVP)</b> <small>First Responders</small> Receives preemption calls and adapts signals to create green corridors for emergency vehicles	 <b>Situational Awareness</b> <small>First Responders</small> Delivers HD video and metadata tracking intersection movement, empowering agencies to assess incidents effectively

## Constant 24/7 Support

Traffic runs 24/7, so NoTraffic's US-based managed service is staffed for 24/7 support to keep your infrastructure running.

- ✓ 24/7 monitoring of all Edge Devices
- ✓ Remote troubleshooting and support
- ✓ Over-the-air service and updates
- ✓ System alerts response team



# Key Features

## Detection

- ✓ All weather detection: fog, rain, snow, sun glare, night, etc
- ✓ Advance detection to 720 ft
- ✓ Detection accuracy 99.5%
- ✓ Count accuracy 95-105%

## Object based classification and tracking

- ✓ Live 1080p video streams of each approach
- ✓ Road user classes: pedestrian, bicycle, motorcycle, car, bus, truck, and custom classifications
- ✓ Zone creation support for stop bar, advance, bicycle lane, dilemma zone, pedestrian crosswalks, etc
- ✓ Trajectory tracking (location, speed, and heading) and category through entire approach

## Connectivity

- ✓ Wireless or wired communications from Sensors to Nexus
- ✓ V2X-ready with software activation
- ✓ Build in multi-band cellular connectivity
- ✓ Universal cabinet and controller compatibility
- ✓ Cyber Security certifications SOC 2 Type II and ISO 27001

## Installation and Service

- ✓ US based service team with 24/7 staffed support
- ✓ Flexible Sensor mounting options from mast arms to span wire (Height: 18-33 ft)
- ✓ Sensor housing rating IP67 per IEEE 60529
- ✓ Nexus rack mountable at 1U (1 ¼ in) height
- ✓ Modular I/O smart harnesses for all controller types (NTCIP, SDLC, NEMA TS 1 and TS 2, Caltrans C1/C11)

## AI Mobility Platform

NoTraffic empowers agencies to optimize infrastructure, enhance efficiency, and improve safety by transforming intersections into a connected, digital network. Solve your traffic needs with a single platform powered by state-of-the-art technology.

