



NoTraffic

World's First Autonomous Traffic Management Platform

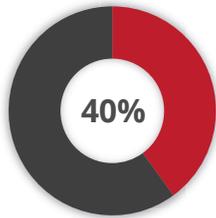
NoTraffic, developing the leading technology for road infrastructure management to solve today's traffic challenges while preparing cities for the connected and autonomous era.



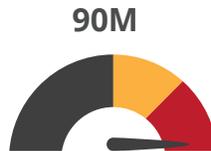
TRAFFIC TODAY

Problem is piling up.

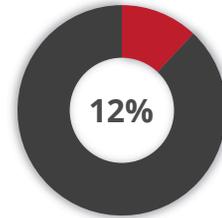
While road users are dynamic and ever changing, traffic signals still work on fixed plans using technology developed over 100 years ago. Add to that the fact that over 90 million new vehicles are introduced to roads every year, resulting in an annual increase of 12% in traffic congestion.



40% of car accidents occur at the intersection



90 million cars added to the road every year



Annual increase of 12% in traffic congestion

NOTRAFFIC'S APPROACH

Cities maintain full control over traffic management.

NoTraffic has developed the first AI-powered traffic signal platform that connects road users to the city grid, solving today's traffic challenges while preparing cities for the connected and autonomous era.

HOW IT WORKS

Virtual Management Center (VMC)

Using NoTraffic's VMC, city officials define transportation policies which are implemented through the platform on both a local intersection and city-grid scale. The NoTraffic platform is managed via a cloud-native user portal. This VMC includes a full data analytics suite with detailed vehicle counts, a running log of signal operations, and real-time status information. Users select from a variety of user-friendly traffic policy preferences such as prioritizing pedestrians at certain intersections or establishing a public transit corridor along a bus route.



VMC BENEFITS



Automatic incident detection



Big Data analytics



24/7 city-grid monitoring



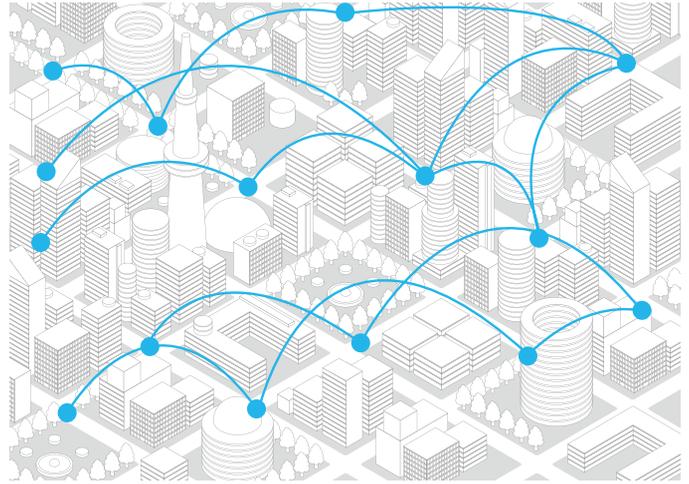
Personalized road user prioritization

Optimization at city-grid level

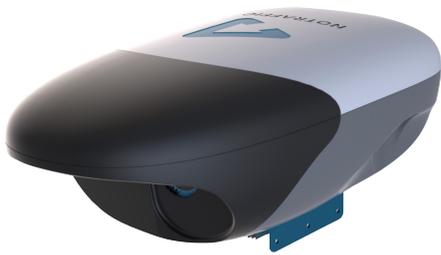
Plug & Play AI sensors provide a human-eye-level measurement of approaching road users.

Essential data of all road users is streamed to the cloud in real time for additional processing.

The platform then operates autonomously to reduce delay time by optimizing traffic signals at the city grid level.



Plug & Play AI suite



AI Sensor

Installed for each intersection approach to provide road-user detection and classification via a fusion of machine vision and radar. Users are classified at a human-eye level (bikes, pedestrians, trucks, buses, cars, emergency vehicles, etc.) on the edge.

Anonymized processed data is streamed to the cloud for city-grid coordination. Connected vehicle capabilities (DSRC and C-V2X) are integrated directly into the sensor units.



AI Optimization Engine

Installed in the traffic light cabinet and retrofitting all types of existing traffic controllers. The AI optimization engine aggregates sensor data from each approach, calculates optimization variables, and monitors safety. The AI optimization engine also acts as a gateway to cloud-based data analytics software and the user portal.

Capabilities Highlights



Future-proof V2X: DSRC/CV2X



Cyber-secured



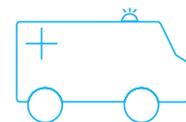
Pedestrian/Bicycle prioritization



Transit Signal Priority (TSP)



Red Light Extension (RLE)



Emergency Vehicle Preemption (EVP)

KEY FIGURES

PER INTERSECTION, ANNUALLY:

33
Tons



CO₂

Emissions reduced. Equal to taking 8 vehicles off the road.

2700
Hours saved



Time

Total amount of delay time avoided through NoTraffic platform.

~1,000,000
US Dollars



Economic benefits

Economic savings realized through system optimization including vehicle wear & tear, fuel savings, reduction in accidents, and fewer working hours lost to congestion.

Up to 70%
Direct cost savings



Cost reduction

Obviates the need for traffic counts and legacy ITS components such as inductive loops, DSRC EVP, TSP, and more.

INDUSTRY EXPERTS

"NoTraffic is leading the way in developing technology for intelligent traffic management and control. They are bound to be a major player in the era of connected and autonomous vehicles."

Prof. Nathan Gartner

Inventor of the first algorithm for real-time optimization of signalized intersections (MIT, Toronto, Technion, Francis College)

"By fusing sensors with artificial intelligence, NoTraffic provides a technology solution to our everyday transportation challenges: improving safety and reducing traffic congestion."

Victor Mendez

Former Deputy Secretary of Transportation, US DOT Administrator of the Federal Highway Administration (FHWA)



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