



Intersection Traffic Analysis

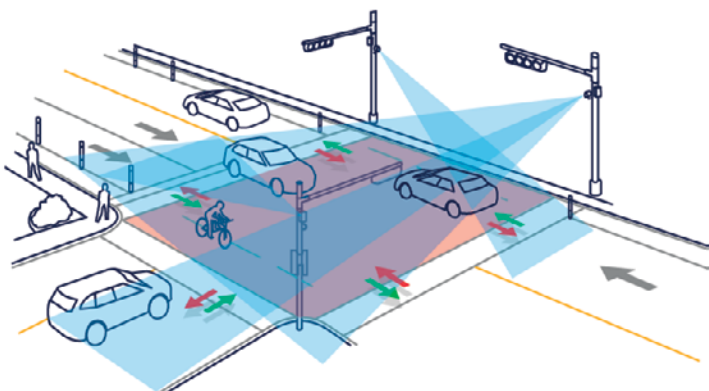
Leveraging technology to save and improve lives

CHALLENGE

The pervasive use of mobile technology - and its ability to easily distract pedestrians and drivers - has led to increased incidents of auto and pedestrian accidents and fatalities. Congestion has been increasingly getting worse year-over-year in 85 of the largest metropolitan areas¹.

As congestion grows, so does traffic accidents and harmful fuel emissions. More than 28% of all greenhouse gas emissions come from transportation, and, what's more, the transportation sector is the largest source of gas emissions in the United States².

Community planners are charged with understanding the impacts of development on existing and future traffic patterns.



SOLUTION

IntelliSite's SCaaS™ Solution for Intelligent Transportation uses proprietary IoT and AI technology to efficiently and cost-effectively decrease accidents, traffic congestion, and greenhouse gas emissions.

Traffic must be ingested, analyzed and acted upon in real-time to make Smart Transportation a reality.

SCaaS for Intelligent Transportation runs data connection, ingestion, and enrichment on the edge, in real-time.

Our solution provides valuable insights for the development and management of resource allocation, policy recommendation, and enforcement methodologies.



Intersection Traffic Analysis

Use next-gen IoT and AI technology to gather valuable data on high traffic periods, crosswalk monitoring, red-light infractions and more. Utilize AI-enriched analytics and incident data to make more informed planning decisions.



Roadway Traffic Analysis

Use next-gen IoT and AI technology to gather valuable data on roadway usage, traffic congestion, traffic speeds and more. Utilize AI-enriched analytics and our visual analytics tools to make more informed roadway planning and management decisions.



KEY SOLUTION BENEFITS



Quantify type of vehicle and direction of vehicles in traffic



Assess and predict changing traffic patterns



Inform pedestrians and drivers of danger with real-time sounds and alerts



Left turn queue monitoring



Monitor and quantify air quality, pollution and fuel emissions



Detect and report traffic anomalies, incidents, red-light violations. Improve first-responder reaction time.



Monitor and quantify traffic flow



Stalled car alerting



Traffic congestion alerting



Monitor and quantify crosswalk traffic



Jaywalking alerts



Wrong-way driver alerting

THE MOST COMPLETE SOLUTION

Edge Sensors & Cameras

IoT Sensors



Cameras



Leverage existing camera infrastructure or install new cameras

Edge Computing

AI at the Edge

Edge compute Universal IoT + AI gateway (UIG)



AI at the MEC

Near edge Multi Access Edge Compute (MEC)



Intelligence



IoT sensor data is processed and metadata sent to the visualization tool



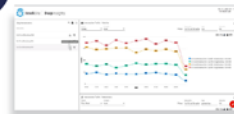
Deep learning based AI software provides advanced video analytics and enriched metadata

Reporting

Video Management System



Visualization Dashboard



Rules Engine



Managed Services



NOC

- 24/7 Realtime Event Response
- Enterprise management of all systems
- Health and wellness of the devices
- Remote Support and Maintenance

MAKING SMART COMMUNITIES AFFORDABLE



IntelliSite's unique offer of "Smart Community as a Service" (SCaaS) enables cities and municipalities to benefit from our technology with an affordable monthly fee. SCaaS eliminates the initial capital expenditure and combines the cost of all the solution components:

- Edge compute UIG™ hardware
- Our innovative IntelliSite software suite
- IntelliCare™ 24/7 remote agent monitoring
- HD cameras
- IoT sensors

All-in-one simple price that's only a few hundred dollars per month provides a very low barrier to access cutting edge security technology powered by AI and IoT.



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