

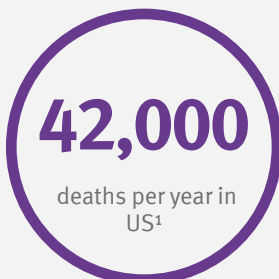
Using AI to Help Achieve Vision Zero Goals

Leveraging technology to protect lives on roads

Challenge

Pedestrians and drivers are distracted by mobile technology, and a culture of immediate response. The increase in traffic accidents and fatalities prompted Vision Zero, a global initiative that refuses to accept these incidents as inevitable, and aims to eliminate them.

Distracted Driving Causes



¹ <https://visionzeronetwork.org/about/what-is-vision-zero/>

² Source: NHTSA (<https://www.nhtsa.gov/risky-driving/distracted-driving>)

Our Solution

EPIC iO DeepInsights™ supports Vision Zero initiatives by constantly monitoring traffic cameras, and using AI to quantify the metrics that cause injuries and fatalities.

These include near misses, stalled vehicles, overcrowded crosswalks and crossing delay times, jaywalkers, traffic volume and vehicle type, aggressive driving, and performative driving.

These capabilities are delivered through a combination of EPIC iO's Universal IoT Gateway (UIG) and associated cameras mounted at fixed locations, and Mobile Surveillance Units which are towed to whichever site needs these analytics. Combined with standalone solar cellular cameras, municipalities have unprecedented insight into the true nature of what is transpiring on the roads and intersections.

DeepInsights tracks these over time, showing clear trends that drive future priorities, as well as providing immediate and objective feedback on the impact of recent initiatives.



Key solution benefits



Traffic analytics



Crosswalk analytics



Tracking traffic violations



Tracking near-misses



Built-in Foundational Data Privacy



Visual and Sound Alerts For Pedestrians and Drivers

END-TO-END AIoT SOLUTION



Deep Insights

Case Study: Major city in northern California

EPIC iO is working with a major city in Northern California that has adopted Vision Zero, with its main goal to reduce the number of traffic fatalities by 2030. EPIC iO Solution is monitoring these activities to help them reach their goal:



Vehicle Assessment Capabilities



Integration into Current Traffic Camera Infrastructure



Traffic Congestion



Wrong Way Vehicles



Near Miss Accidents



Cars in Bus-only Lanes



Stalled Vehicle



Vehicle Flow Monitor Reporting