

CASE STUDY

INTELLIGENT
TRANSPORTATIONBRINGING VISION ZERO PROGRAM
AT SAN JOSE CITY: FATALITIES
AND INCIDENTS PREVENTION

Together, IntelliSite powered by Deep Vision AI, Dell Technologies and Nvidia are working at San Jose City to establish a SCaaS® (Smart & Safe Community as a Service®) solution. The goal: to alert community leaders of critical traffic events detected by the AI based software, provide event data to be analyzed and correlated with incidents to predict and prevent traffic related fatalities in support of San Jose's "Vision Zero" program.

CHALLENGE

There are 12.4 traffic-related deaths per 100k residents in the US today. San Jose City has adopted the Vision Zero transportation safety initiative to reduce and ultimately eliminate traffic fatalities by 2030.

- Reduce traffic congestion and pedestrian accidents and fatalities.
- Provide accurate traffic data to the city – counting of people, cars, bikes, scooters, wheelchairs etc. can provide valuable data for city planning.
- Improve quality of living for all citizens.

KEY BENEFITS

- Increase safety for pedestrians and motorists, reducing fatal accidents.
- Reduce labor costs by monitoring public and private spaces in real-time with no human intervention.
- Improve traffic monitoring capabilities and vehicle incident detection (includes traffic jam, wrong way, cars on bus-only lanes, stalled vehicle, near hit accidents, etc) reporting analytics and alerts in real-time.
- Generate new revenue streams through data monetization (e.g issuing fines).

SOLUTION

The SCaaS Intelligent Transportation solution provides advanced vehicle traffic monitoring capabilities and vehicle incident detection (including: traffic jam, wrong way, cars on bus-only lanes, stalled vehicle, near hit accidents, etc.) Analytics and alerts are reported in real-time. The SCaaS solution provided 93% accuracy on vehicle flow monitoring using existing low-resolution cameras surpassing the closest competitor by +15%.

Components of the solution are:

- Crosswalk Safety
- Intersection traffic
- Roadway traffic
- Red light violation

