

# Derq AI-Powered Intelligent Transportation System: Smarter, Safer Roads Start Here



## Actionable Traffic and Safety Insights Powered by Cutting-Edge AI to Prevent Crashes and Reduce Congestion

Derq's patented AI-powered [intelligent transportation systems](#) (ITS) helps cities and transportation agencies prevent crashes, solve complex road safety challenges, and improve traffic flow. The Derq AI platform integrates with existing infrastructure — from video sensors to traffic signals — to detect, classify, and predict road user behavior in real time. Derq's flagship products, Derq SENSE and Derq INSIGHT, predict road user trajectories, identify safety hotspots, and analyze road user events and ATSPMs to manage traffic flow and prevent collisions involving pedestrians, cyclists, and vehicles. Derq works with Intel® technology to power its real-time AI insights. Proven results include a 33% reduction in crashes in Sarasota, Florida, with one intersection experiencing a 90% decrease, and 99.83%<sup>1</sup> vehicle detection accuracy certified by the FDOT. Derq partners with state DOTs, Vision Zero-aligned cities, and transportation agencies.

<sup>1</sup> Disclaimer:

<https://www.sarasotafl.gov/Department-Pages/Public-Works/Capital-Projects/Smart-City>  
<https://itsa.org/wp-content/uploads/2025/06/ITSA-Use-Case-Library-Vol-3-COPY-3.pdf>  
<https://www.transportation.gov/briefing-room/us-dot-announces-winners-intersection-safety-challenge-stage-1b-system-assessment-and>

## Key Features



AI-Powered Video  
Detection



Detects Traffic  
Violations



Pedestrian  
Safety



Improves Road  
Safety

## Intel Products & Technology



[Intel® Xeon® Scalable Processors](#)

[Intel® Smart Edge](#)

[OpenVINO™](#) [OpenVINO™ Toolkit](#)

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