Actionable Insights Using Intel Tech – Safer Streets, Smarter Cities

Derq AI- Powered Intelligent Transportation System

Derq's AI technology integrates with existing video infrastructure — from video sensors to traffic signals — to detect, classify, and predict road user behavior in real time. 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. Proven results include a 90% crash reduction[1] at one intersection in Sarasota, Florida, and 99.83%[2] vehicle detection accuracy certified by the FDOT. Derq partners with state DOTs, Vision Zero-aligned cities, and transportation agencies.

Derq works with Intel technology to power its real-time AI insights. Derq leverages OpenVINO™ Toolkit on Intel® Xeon® Scalable processors and Intel's edge solutions to run Derq INSIGHT efficiently on premises — making it possible to serve multiple locations with one powerful server. The result is a high-performing, scalable solution that helps cities improve safety and traffic flow with ease.

[1] https://www.sarasotafl.gov/Department-Pages/Public-Works/Capital-Projects/Smart-City
[2] 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 Intel-Enabled Features

AI-Powered Video Detection	Detects Traffic Violations	Identifies Pedestrian Compliance Issues	Improves Road Safety

accelerated by **intel**

Intel technologies powering Derq's AI-Powered Intelligent Transportation System include:
- 4th Gen Intel® Xeon® Scalable processors deliver optimized performance, scale and efficiency across a broad range of data center, edge and workstation workloads.
- OpenVINO Toolkit accelerates the inferencing and development of machine learning solutions to optimize, inference performance along with a common API to enable deployment across Intel.
- Intel's computing platform provides cloud-like ease, resiliency and security for deploying and managing demanding container-based workloads like AI at the edge.

Intel Products and Technologies

- Intel ® Xeon® Scalable Processors
- Intel® Smart Edge Open
- OpenVINO™ Toolkit

"Intel's processing power is essential to our mission of preventing crashes before they happen. Their servers enable us to analyze hundreds of traffic camera feeds simultaneously through Derq INSIGHT, which gives cities the actionable intelligence they need to improve safety and reduce traffic congestion."

Dr. Georges Aoude
Do-Founder and CEO
Derq

Ordering Guidance:
- Buy Solution

Country/Geo: Worldwide

Verticals: Government, Transportation

Use Cases: Situational Monitoring

AI Workload: Machine Learning

Learn more:
- Derq Solution Website

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