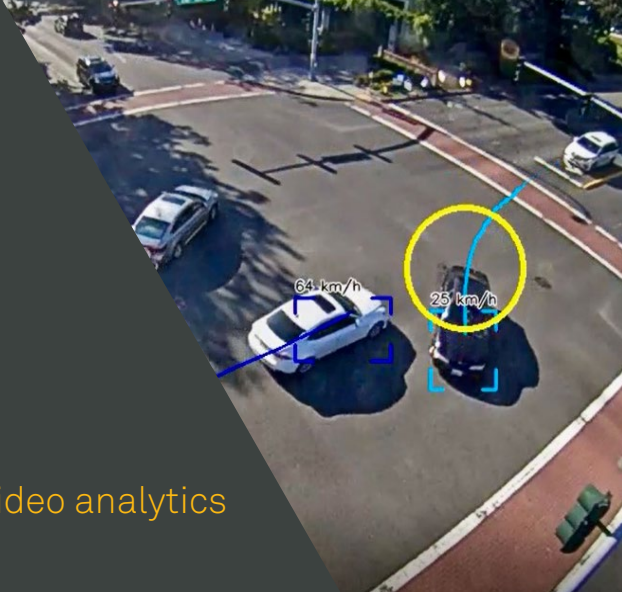


BriskLUMINA

Intelligent Transportation Solutions - Traffic Safety Analysis

Understanding collisions before they happen using video analytics



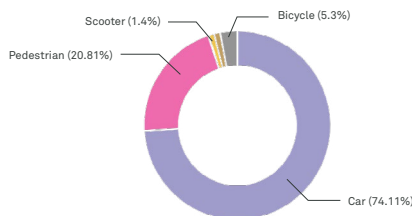
Immediate and actionable insights into road user behaviour using near-collision and surrogate safety indicators to build safer and smarter cities

KEY APPLICATIONS



Vulnerable Road User Studies

Identify high-risk movements between 7 different motor vehicle classes and pedestrians, bicycles and scooters.



Distribution of road users across all movements

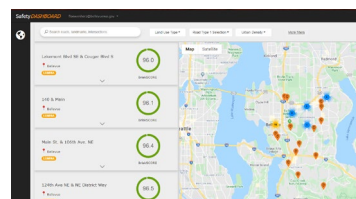


Conflict between pedestrian crossing and cyclist traveling along bike trail



Network Screening Diagnostics

Diagnose your high-risk conflict hotspots at a single site or across a network



Safety Dashboard - Network Screening



Safety Performance Metrics

Measure and validate road safety improvements using surrogate safety indicators:

Traffic flow analytics – volumes by road user type, turning movement counts, trajectory images.

Road user classification – car, bus, truck, motorcycle, cyclist, pedestrian, scooters.

Speed – video clip for speeding events, hourly and daily averages, median, 85th & 15th percentile.

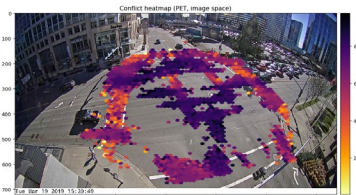
Heatmaps – conflict, speed & stream heatmaps.

Near collisions – for each conflict: downloadable 10 second video clip, exact time of conflict, Post-Encroachment Time (PET), Time to Collision (TTC), road user type and first to arrive.

Before/ After Testing – quickly evaluate and validate road improvement projects.



Conflict between motorists exiting and entering roundabout



Conflict PET heatmap in image space (also available in world space)

BENEFITS



Non-Intrusive

No additional costs or resources required for camera hardware installations. Use any video source, pre-recorded, live video streams, or temporarily installed cameras for on-demand safety studies at any site



Accurate Results

Accuracy levels that have been quality checked and validated to be above current industry standards



Identify Risk

Identify and predict the frequency and severity of dangerous interactions between vehicles, pedestrians and cyclists using industry-standard surrogate safety measures



Validation with Real Metrics

Assess unknown safety performance before and after road design and treatments are applied. Identify and diagnose safety challenges before collisions and serious incidents happen



Online Access to Results

Secure, cloud-based Safety Dashboard provides effective decision-making tools, visual graphs and video clips of all high-risk interactions



Save Time

Identify high-risk locations and road user behaviour quickly across a network or at a specific location in a matter of days, not years



Trusted by road safety professionals worldwide

“We chose Transoft Solutions (ITS) as our collaboration partner for the safety video analytics towards the vision zero project. Their expertise in AI, computer vision and leadership in automated, video-based road safety analysis is critical for our road network screening deployment.”

Franz Loewenherz. Principal Transportation Planner. City of Bellevue, Washington

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