

BriskLUMINA

Understanding collisions before collisions happen

BriskLUMINA service is a road conflict analysis solution that brings better understanding to road safety at city intersections or highways before collisions happen.

Using deep vision analytics on traffic video, the solution implements temporary cameras and an automated video data collection, monitoring and analysis platform that will observe the interaction between pedestrians, cyclists and vehicles to identify near-misses (scenarios that almost resulted in a collision), which occur more often than collisions. BriskLUMINA reduces the time to quantify road safety conditions or report on incidences down to a matter of days – a big improvement to the traditional method that would require years of data collection.

Predictive

Near-miss collision analysis enables the prediction of safety incidences before they happen instead of the current environment of reacting to understand and report on traffic incidences.

Detailed, visualized web-based dashboard

Easy-to-use dashboard results are visualized as charts, graphics and links to video snippets for each conflict analysis scenario

Quick turnaround time

An experienced Brisk Synergies project team can implement temporary cameras and produce consolidated summary analytics report on full video capture within a matter of days not years.

Cost effective

Get ahead of the curve with continuous monitoring to reduce your requirements for manual data collection methodologies and lengthy incidence reporting studies.

Generate traffic video data

Video is analyzed to generate detailed conflict analysis measurements such as Time to Collision (TTC), Post Encroachment Time (PET), volume and speed.

Multiple scenarios

Each temporary camera can process multiple scenarios with vehicles, pedestrians and cyclist with associated parameters.

Generate Actionable Results

Consolidated Report: Consolidated summary reporting of near-miss observations between vehicles, pedestrians and cyclists.

Trend Analysis: Monitor trouble spots and provide historical analysis, trends. Near-miss data and conflict video snippets categorized based on risk.

Detailed analysis: Time to Collision (TTC) and Post Encroachment Time (PET) analysis applied. Heat-maps highlighting areas where near-misses observed.

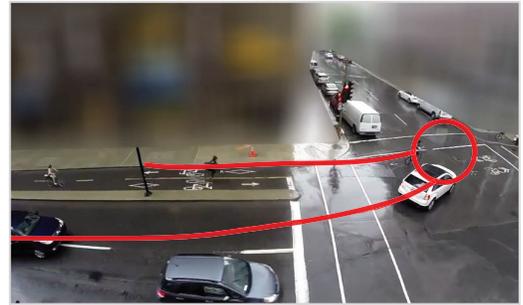
Adjustable retention parameters: All collected data can be deleted immediately after use or archived based on transportation department policy.

Volume and speed distribution: Chart average volume and speeds in time based intervals to analyze conflict areas.

Trajectory heat-maps: Heat-maps for transportation modes most traveled paths.

Key Applications

- Monitor vehicle “near-misses” with pedestrians and cyclist at busy intersections
- Measure excessive speed for each time of day and set alerts
- Assessing “before and after” safety improvements in vehicle conflict scenarios with pedestrians, cyclists and other vehicles at intersections
- Capture jaywalking patterns and potential countermeasures



Video snippets track high risk interactions visually.



Chart volume and speed distribution to analyze conflict areas.



Visualize hot spots by data type, such as volume, risk level, and speed.

About Brisk Synergies

We deliver end-to-end solutions and services that monitor and analyze traffic flow. Through our technologies, urban planners and traffic professionals achieve sustainable urban mobility for their cities by delivering safer traffic infrastructures and transportation solutions.

Contact Us

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