

Intersection Safety Insights (ISI)

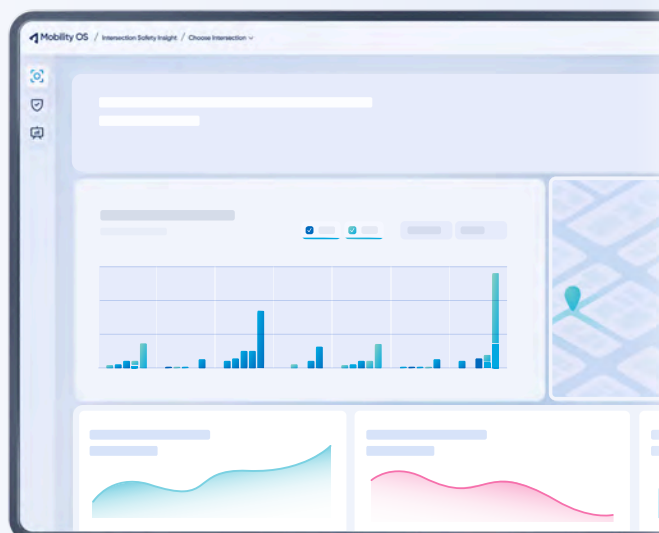
ISI provides detailed analysis and insights into red-light running violations, enabling strategic initiatives for mitigating risks.

Red-light running affects thousands of people daily

900 People Killed Annually *

165k People Injured Annually*

* Including pedestrians, cyclists and motorists
Source: Federal Highway Administration 2020

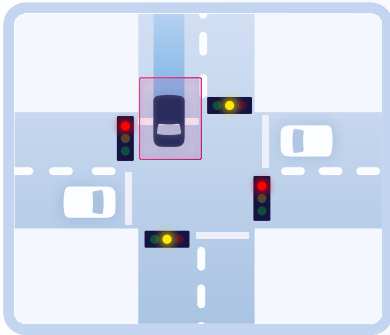


Background

ISI is a safety-oriented software application that correlates traffic signal phases with vehicle movements across the stop line, enabling precise tracking of red-light running.

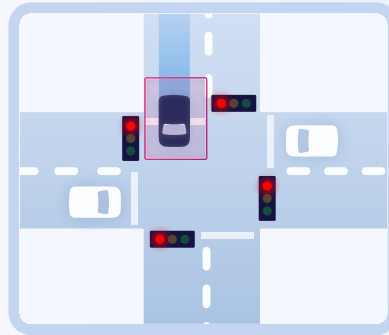
It provides comprehensive and comparative insights into red-light running behavior at intersections, with the goal of significantly reducing the frequency of such accidents and promoting safer roads nationwide.

Our system can detect the following TIERS of red light running (RLR) events:



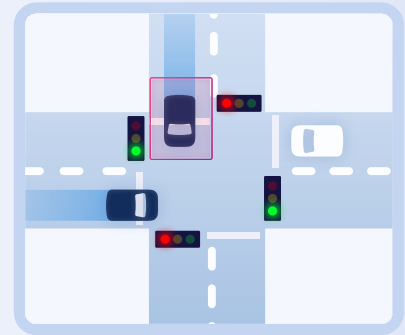
Tier 1

Vehicle crosses the stop bar **during** the yellow change



Tier 2

Vehicle crosses the stop bar **during** the all-red clearance



Tier 3

Vehicle crosses the stop bar **after** the all-red clearance

Top Line Benefits

1

Identify intersections with red-light running

2

Understand the context of RLR events through video analysis

3

Evaluate the effectiveness of safety countermeasures

Features and Capabilities

- ✓ Conducts in-depth analysis of trends and problematic areas contributing to incidents of red light running at both intersection and city-wide levels.
- ✓ Filters incidents by customizable parameters such as time of day and frequency per month/week/day/hour.
- ✓ Categorizes incidents by classification type (Tiers 1, 2, 3).
- ✓ Categorizes incidents by type of roadway user.
- ✓ Provides comparative analysis to evaluate the effectiveness of various countermeasures against red-light running.
- ✓ Offers actionable insights aimed at reducing the potential risk of future occurrences of red-light running.

AI Mobility Platform

The Intersection Safety Insights (ISI) application can be activated from the Mobility Store, that provides a diverse range of applications. The Mobility Store is part of the NoTraffic AI Mobility Platform, which integrates AI-powered software and hardware at the edge under a cloud-based Mobility OS (Operating System) to address current and future transportation needs.

