

# Intersection Safety Insights (ISI)

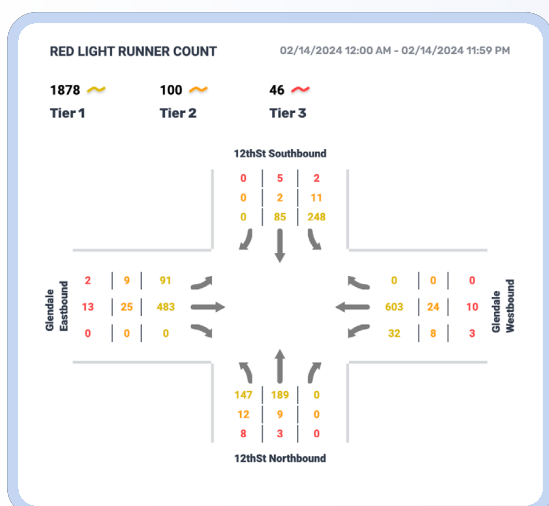
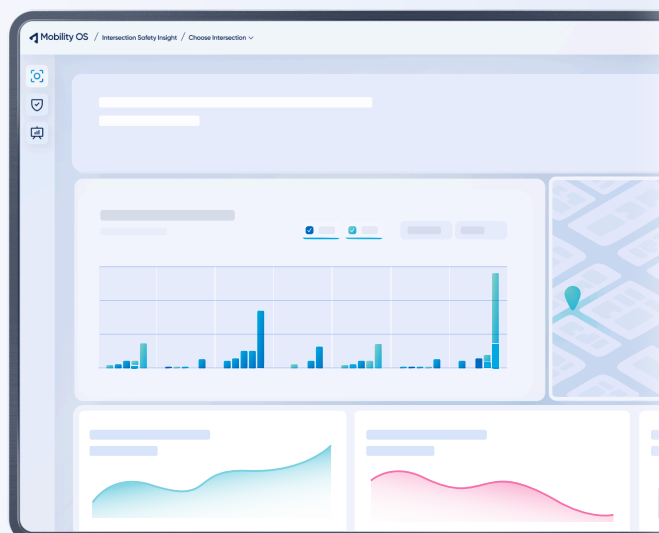
ISI provides detailed analysis and insights into red-light running violations, enabling strategic initiatives for mitigating risks.

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

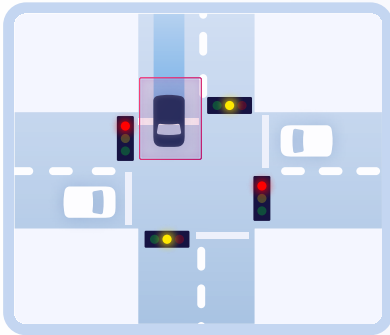


## Background

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.

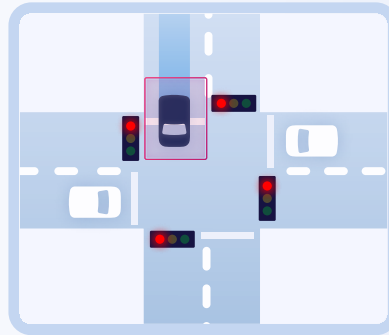
It provides comprehensive and comparative insights into red-light running behavior at intersections, with the goal of significantly reducing the frequency of such accidents and promoting safer roads nationwide.

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



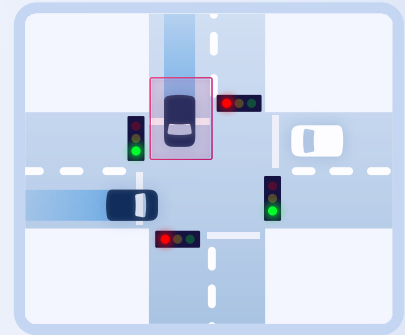
### Tier 1

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.

