

# **Install Red-light Cameras**

Installing red-light cameras helps reduce angle and rear-end crashes by deterring red-light running through automated enforcement.

### Implementation Strategy

#### How and Where to Apply

- Install at signalized intersections with frequent red-light violations or crash patterns, especially involving right-angle collisions. These are often found in hightraffic urban corridors or near schools and commercial zones.
- Install cameras aligned with signal phases, ensure legal authority, and post warning signs per local regulations.
- The MUTCD requires that automated enforcement, such as red-light cameras, be accompanied by proper signage notifying drivers and that their use complies with state and local laws.

#### Use in a Safe System Approach

Red-light cameras align with the Safe System Approach by enforcing compliance, reducing risky behaviors, and lowering the severity of intersection crashes.

#### **Key Stakeholders**

Agency maintenance personnel, DOT, Local enforcements

#### **Proactive Implementation**

Red-light cameras should be proactively installed at intersections with growing red-light violation trends or a history of angle crashes. Data-driven site selection helps prevent severe crashes by deterring risky driving behaviors before they escalate.

#### **Countermeasure Overview**

Objective: Improve efficiency and effectiveness of speed enforcement efforts

Strategy: Implement automated speed enforcement

# Targeted Solution

CONTRIBUTING FACTORS

 Speeding through intersection



Angle





Not Specified



• Urban

# Safety Linkage



Signalized Intersection



Improved Safety Management SAFE SYSTEM APPROACH

Safe Roads
SAFE SYSTEM



Tier 4

Red Light Camera. Source: FHWA

# **Selected Related Countermeasures**



Advance warning flashers



Retroreflective sheeting on signposts



Automated speed enforcement cameras

**Cost:** \$ (Moderate to High)

Service Life: 10 years

Benefit-Cost Ratio: 2.61:1

48%

Reduce rural intersection crashes of all types and severities<sup>1</sup>



Reduce angle crashes<sup>2</sup>





afety Benefits

#### Resources

- FHWA Safe Pedestrian
- <u>TTI study-underscores-safety-benefits-of-red-light-cameras</u>

