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 right-angle crashes, especially in high-traffic urban corridors or near schools; not suitable for lowvolume rural sites or where violations are not documented.
- Install cameras aligned with signals, ensuring authority and required warning signs.
- MUTCD requires automated enforcement like red-light cameras to have proper driver notification signage and comply with state and local laws.

Use in a Safe System Approach Red-light cameras strengthen the Safe Speeds and Safe Road Users elements of the Safe System Approach by enforcing compliance and reducing risky behaviors. By lowering the severity of intersection crashes, they support the principle that deaths and serious injuries are unacceptable.

Key Stakeholders

State DOTs, MPOs, advocacy groups, law enforcement agencies, engineering consultants.

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.

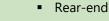
Targeted Solution

CONTRIBUTING **FACTORS**

Speeding through intersection



Angle





N/A



Urban

Safety Linkage



Speeding



Improved Safety Management



TIER 1

Tier 4

Selected Related Countermeasures



Advanced warning flashers



Retroreflective sheeting on signposts

Automated speed enforcement cameras

Cost: \$\$\$ (Moderate to

High)

Service Life: 10 years Benefit-Cost Ratio: 2.6:1

Red Light Camera. Source: Howard County, MD.



Reduces crashes of all types and K, A, B, and C severities on roads (CMF ID: 8091)



Safety Benefits

Reduces crashes of all types and severity K on urban roads (CMF ID: 3861)



Resources

- **FHWA Safe Pedestrian**
- TTI_study-underscores-safety-benefits-of-redlight-cameras

