Vehicle Activated Speed Limit



A vehicle activated speed limit system uses sensors to detect approaching vehicles and displays dynamic speed limit signs or warnings, encouraging

Implementation Strategy

How and Where to Apply

- Install vehicle-activated speed limit signs on corridors with a history of speeding, frequent crashes, or near sensitive areas like schools and work zones to alert drivers in real time.
- Use speed and crash data to identify locations where traditional static signs have not been effective at reducing speeds or improving safety.
- Coordinate with enforcement agencies and public awareness campaigns to reinforce compliance and maximize the effectiveness of dynamic speed management systems.

Use in a Safe System Approach

Vehicle-activated speed limit systems support the SSA by managing safe speeds (Safe Speeds) and providing realtime feedback to drivers, helping prevent high-risk situations. This proactive measure also protects vulnerable road users (Safe Road Users) by reducing speed-related crash risks in sensitive areas.

Key Stakeholders

Transportation Agencies, Local Governments, Law Enforcement

Proactive Implementation

Proactive implementation involves using speed and crash data to identify high-risk locations, such as school zones or areas with frequent speeding, and installing vehicle activated speed limit systems before serious crashes occur. Agencies should coordinate with enforcement and community groups to promote compliance and monitor system effectiveness.

Countermeasure Overview

Objective: Heighten driver awareness of speeding-related safety issues.

Strategy: Implement neighborhood speed watch/traffic management programs (Low Speed Only)

Cost: Moderate

Service Life: 10 years

Targeted Solution



- Speeding
- Risky Overtaking



Speeding



N/A



- Urban
- Suburban

Safety Linkage



Speeding related Crashes



Improved Safety Management



Safe Speeds SAFE SYSTEM



Tier 4

Vehicle Activated Speed Limit. Source: iStock

Selected Related Countermeasures



Dynamic Speed Display Signs (DSDS)



School Zone Flashing Beacons



Speed Feedback Trailers





A Comparative Study between Vehicle Activated Signs and Speed Indicator Devices, Jomaa et al. (2017)



