





Smart Work Zones

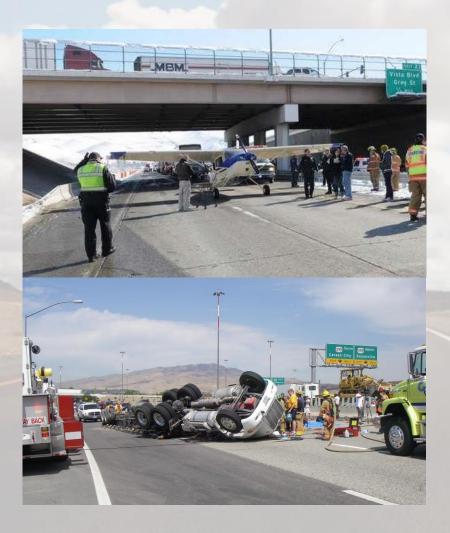


Denise Inda Nevada Department of Transportation





WORK ZONE SAFETY



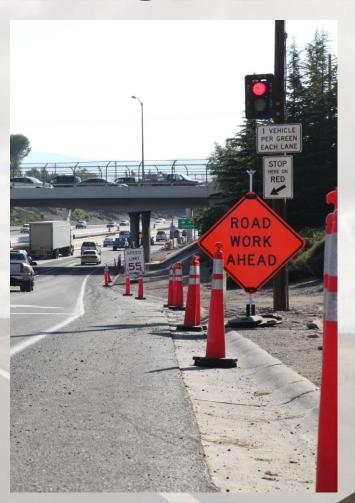
- 669 Work Zone Fatalities
- 2% of TotalFatalities
- WZ FatalitiesIncreasing





WORK ZONE MOBILITY

- 24% Non-recurring
 Freeway Delay
 involves Work Zones
- 10% Congestion caused by WorkZones







TECHNOLOGY AS A WORK ZONE STRATEGY







TECHNOLOGY AS A WORK ZONE STRATEGY



- Real-time Traveler Info
- Automated
 Enforcement
- Entering/Exiting
 Construction Vehicle
 Notification
- Queue Warning





TECHNOLOGY AS A WORK ZONE STRATEGY



- PerformanceMeasurement
- Dynamic Lane Merge
- Variable Speed Limits
- Incident Management





WORK ZONE COMPONENTS

SWZ Goal

Improve speed limit compliance through work zone

Data to Collect

*Speed

Devices for Data

- *Detector
- •Radar

Other Equipment

- *DMS
- *Variable speed limit trailer
- «Speed feedback sign







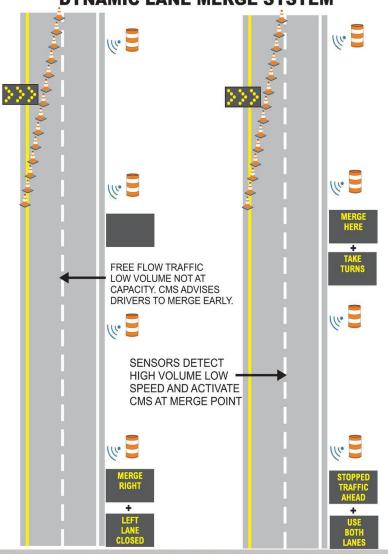






DYNAMIC MERGE

DYNAMIC LANE MERGE SYSTEM



- Activated in Real-Time
- Maintains Safe Merging Gaps
- Reduces Upstream
 Shockwaves





DYNAMIC MERGE











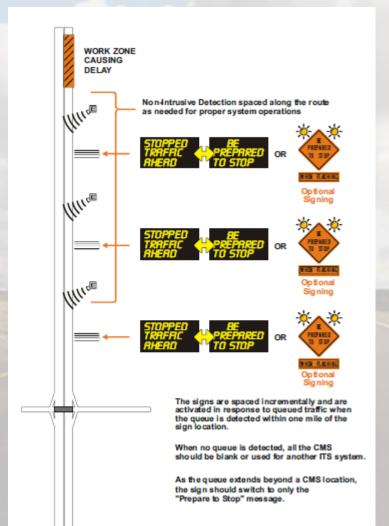


ZIPPER MERGE





QUEUE WARNING SYSTEM

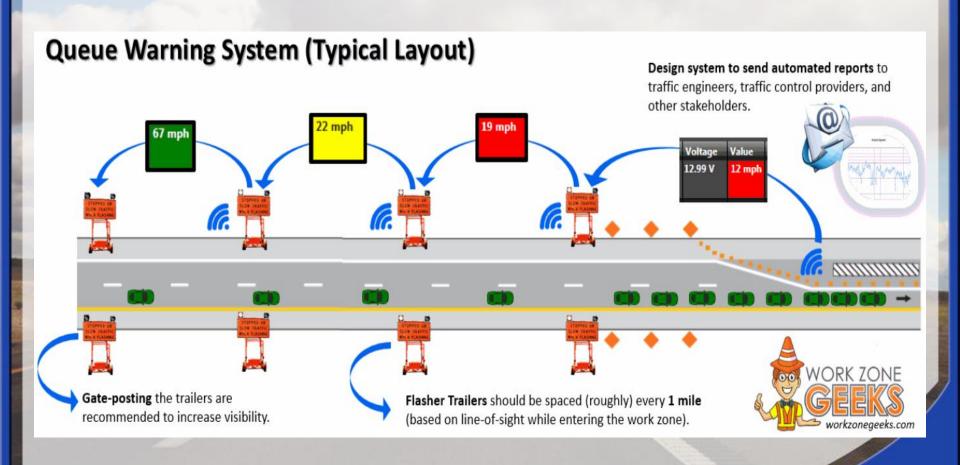


- AdvancedNotification
 - Detection
 - Warning Signs
- Queue-relatedCrash Reduction





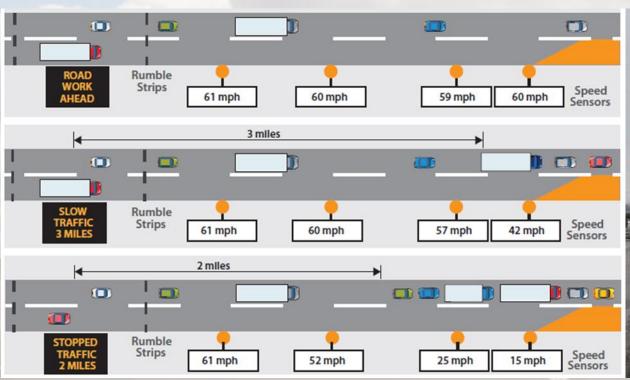
QUEUE WARNING SYSTEM







NDOT IMPLEMENTATION





Queue Warning - SR 160







Take turns, move faster

WHAT IS IT?

When a lane is closed for construction, a ZIPPER **MERGE** encourages motorists to use all available lanes until the merge point, and then alternate in a "zipper" fashion into the open lane.

➤ Reduces traffic backups by up to 40 percent

- ► Improves safety by promoting similar travel speed between adjacent lanes
- ➤ Reduces congestion by using all available lane space

Look for ZIPPER MERGE signs on US 95 starting on March 21.



THE

BENEFITS





is ahead.

Signs will alert you that a ZIPPER MERGE

At the "merge now" sign, take turns to safely and smoothly merge all cars into one lane.





Project NEON -**US 95**





NDOT IMPLEMENTATION



Work Zone
Travel Times
- SR 147





Contact Info:

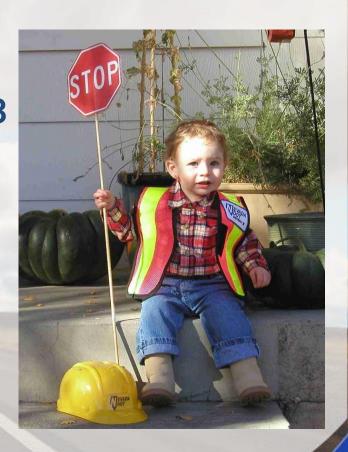
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