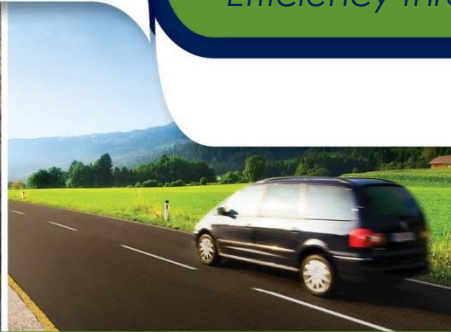


Every Day Counts – 3 Smarter Work Zones

Efficiency through technology and collaboration



U.S. Department of Transportation
Federal Highway Administration

Smarter Work Zones

OVERVIEW



What are Smarter Work Zones?

Innovative strategies designed to optimize work zone safety and mobility

- Policies and practices used to incrementally and continuously improve WZ operations
- Tools to reduce WZ crashes and delays
- Tools to enhance WZ management strategies



What are Smarter Work Zones (cont.)?

Project Coordination

Coordination within a single project and/or among multiple projects within a corridor, network, or region, and possibly across agency jurisdictions

Technology Applications

Deployment of Intelligent Transportation Systems (ITS) for dynamic management of work zone traffic impacts, such as queue and speed management



Types of Technology Applications Include...

- Real-Time Traveler Information
- Queue Warning
- Dynamic Lane Merge
- Incident Management
- Variable Speed Limits
- Automated Enforcement
- Entering/Exiting Construction Vehicle Notification
- Performance Measurement

For more information check out the SWZ TA website

<https://www.workzonesafety.org/swz/swztechnology-application/types-of-applications/>



Example Project Coordination Strategies...

- Improved Project Coordination Processes
- Lane Closure Permitting Systems
- Work Zone Impact & Strategy Estimator (WISE)
- Construction Coordination Programs
- Citywide Traffic Management Plans (TMP)
- Mobility Coordinators
- Construction Impact Analysis Tool

For more information check out the SWZ TA website

<https://www.workzonesafety.org/swz/swzproject-coordination/>



Why Implement SWZ?

Capabilities of Technology Application

- **Improved driver awareness**
 - Changing traffic patterns
 - Downstream congestion
 - Construction vehicle ingress/egress
 - Expected delay / travel time
- **Dynamic and actionable guidance to drivers**
 - “Road work ahead” vs “Traffic Stopped 1 mile ahead”
 - “Road work – expect delays” vs. “Road Work I-95 past Exit 52 Use Alternate Routes”
- **Enhanced tools for on-site traffic management**
 - Speed monitoring
 - Automated speed enforcement
 - Queue formation



Why Implement SWZ?

Benefits of Technology Application

- **Empowers drivers to be proactive in responding to work zones**
 - Awareness of downstream hazards
 - Facilitates real-time decision-making and trip planning
- **Streamlines traffic management functions through partial automation**
 - Speed enforcement
 - Data collection
 - Performance measurement
- **Information increases customer satisfaction**
 - The More you Know...



Why Implement SWZ?

Benefits of Project Coordination

- Greater ability to reduce and manage traffic disruptions from road work
- Earlier identification of project impacts
- Fewer number of work zones
- Dynamic adjustments to project schedule
- Improved communications within and across agencies
- Reduced number of street cuts
- Better quality road surfaces
- Cost savings
- Increased customer satisfaction



For More Information:

SWZ Initiative Leader

Jawad Paracha

FHWA Office of Operations

(202) 366-4628

Jawad.Paracha@dot.gov

Technology Applications

Todd Peterson

FHWA Office of Operations

(202) 366-1988

Todd.Peterson@dot.gov

Project Coordination

Martha Kapitanov

FHWA Office of Operations

(804) 775-3342

Martha.Kapitanov@dot.gov

