Every Day Counts – 3 Smarter Work Zones

Efficiency through technology and collaboration
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.)?

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<th>Project Coordination</th>
<th>Technology Applications</th>
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<td>Coordination within a single project and/or among multiple projects within a corridor, network, or region, and possibly across agency jurisdictions</td>
<td>Deployment of Intelligent Transportation Systems (ITS) for dynamic management of work zone traffic impacts, such as queue and speed management</td>
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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
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