



# Using SHRP2 Technologies to Achieve Success – *Arizona's Approach*

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# Role of Arizona DOT

## Lead Adopter for Organizing to Improve Operations



# Organizing to Improve Operations

## Problem:

- >50% of congestion is caused by weather, crashes, special events, and other unforeseen factors
- Agencies need better tools to address more holistically their non-recurring congestion

## Solution:

- Comprehensive approach that includes an assessment tool, guide, training, and case studies to optimize systems operations



# Organizing to Improve Operations

## Comprehensive approach to improving traffic systems operations & management

- Level 1: Outreach to DOTs to gain interest
- Level 2: DOT self-assessment of existing practices and potential opportunities
- Level 3: Development of action plan
- Level 4: Implementation

## Product Goals:

- Improve traffic flow
- Increase efficiency of our roadways
- Reduce congestion for drivers & freight operators



# Implementing Reliability Tools – Opportunities for Arizona

## Arizona as early adopter

- Basic freeway footprint will remain same
- Need to focus on more effective, cost-effective, and coordinated options to expand capacity
- 2010 assessment of the maturity model led to adoption of new strategies. Participation included:
  - Arizona Department of Transportation
  - AZTech
  - Maricopa County
  - Maricopa Association of Governments
- Major reorganization occurred within ADOT
- Focused training on incident management



# More Opportunities

## More focused direction for New Operations Center

- Already revamped and updated
- New goal: Shift focus from ITS technology to effective and integrated operations



# Arizona DOT's Approach

- **Multi-pronged technical approach:**
  - ✓ Internal review and assessment within ADOT
  - ✓ Review with Regional partners
  - ✓ Expand statewide
  - ✓ Host Regional Operations Forum 2014



# Arizona's Approach

- **Build on existing** infrastructure and technology investments
- Look at **core functions**
- Identify necessary **connectivity, devices, operations strategies and operations resources**
- Ensure connectivity between **urban and rural areas**



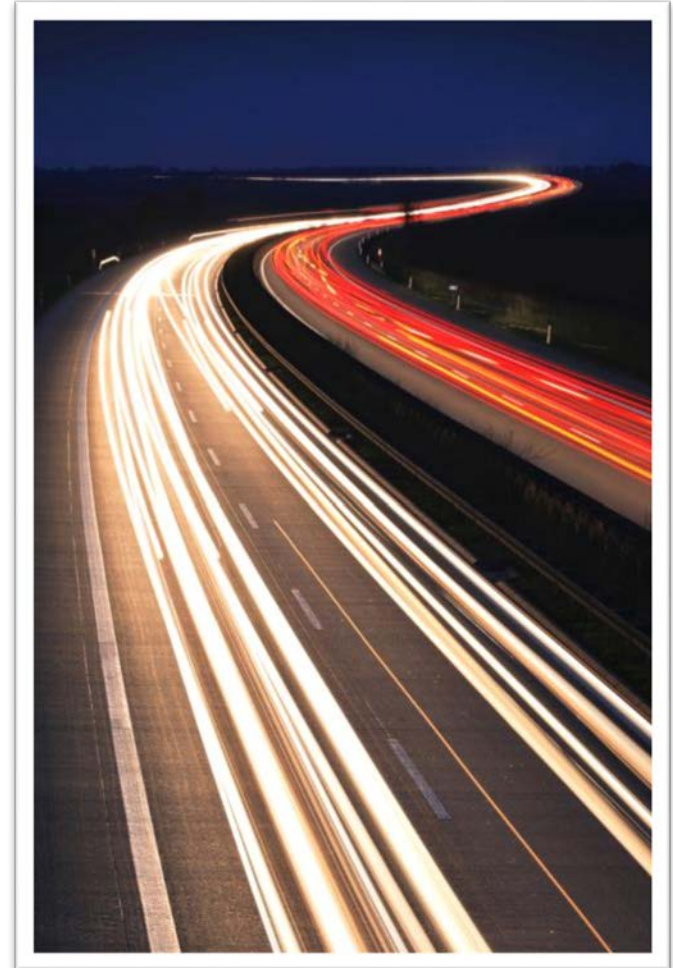


# Incident Management Training

- **Train-the-trainer program** through FHWA and SHRP2
- Multi-disciplinary training
- Develops **cadre of emergency responders** who work together at an accident scene in a coordinated manner
- **Improves safety** to responders and travelers
- Results in **faster clearance times** = less congestion
- Already trained 72 people to be trainers
- Arizona Dept. of Public Safety requiring it for all towing contractors and all officers
- Will be a requirement for all ADOT operations staff

# Organizing to Improve Operations – The Benefits

- **Tailored approach** to making operational changes that result in the greatest gains
- **Fewer closures and delays** through identifying and resolving potential issues in advance
- More **predictable travel times** save motorists and freight operators time and money



# SHRP2 Value to Arizona DOT

- **Identify improvement needs** on a system-wide and regional basis
- Help us **build our long-term strategy**
- **Bring together stakeholders** across the state
- **Identify resources, experts, and best practices**
- Establish a **baseline** and develop data to measure performance and improvement
- Will provide us with **real-time information on incident management**

# Getting Involved

- AASHTO's Subcommittee on Systems Operations and Management
- SSOM Task Force 1 - Systems Operation Strategies
- SSOM Task Force 2- Systems Operations Performance Measures
- SSOM Task Force 3 - Transportation Systems Management and Operations Center

Virginia's Operations Center



# Questions

