MODULE 5: TSMO to Improve Reliability
What is Reliability?

- **Reliability**: Consistency or dependability in travel times, as measured from day to day or across different times of day.

![Travel time graph]

*Travel times vary greatly day-to-day*

*What travelers experience*

*What they remember*
Why is Travel Time Reliability Important?

- Understandable to the public
- Public has less tolerance for unexpected delay
- Unreliable travel has costs for users
  - Lost productivity, late/early freight arrivals, economic competitiveness
- Valued service in other utilities & industries
- Useful in investment decision-making process to reflect beneficial operations strategies
- Can be treated effectively by addressing roadway “events”
- Affects safety and mobility
How do we improve Reliability?

• **Improving Reliability**: Reducing congestion and creating more predictable travel times by:
  • Operating the system to maximize performance
  • Managing the occurrence and effects of non-recurring events
  • Monitoring performance to understand and improve operations
Example TSMO Strategies to Improve Reliability

- Work Zone Management
- Traffic Incident Management
- Special Event Management
- Road Weather Management
- Transit Management
- Freight Management

- Traffic Signal Coordination
- Traveler Information
- Ramp Management
- Managed Lanes
- Active Traffic Management
- Integrated Corridor Management