



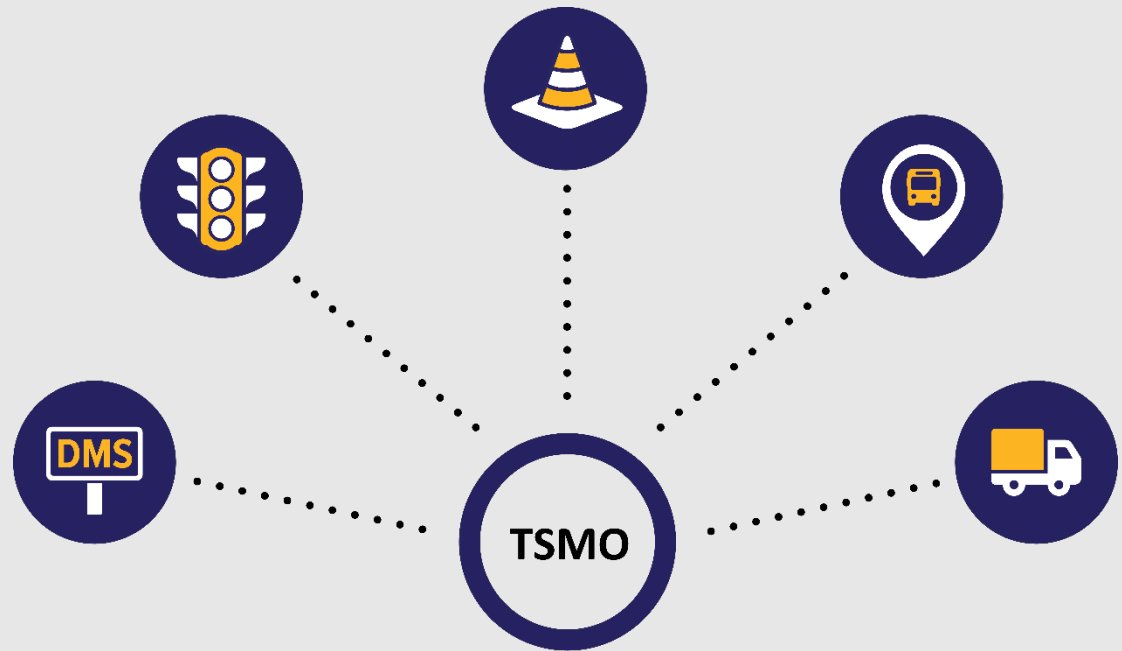
Transportation Systems Management & Operations (TSMO)

Workforce Challenges



A Shift in the Management of Transportation Systems to Optimize Existing Infrastructure

- Prioritizes Road User Quality of Life
- Strategies that Focus on Safety and Maintenance of the Overall Transportation System
- Advocates for Funding for Mobility Strategies thru Cost-Saving Coordination
- Performance-based practical design



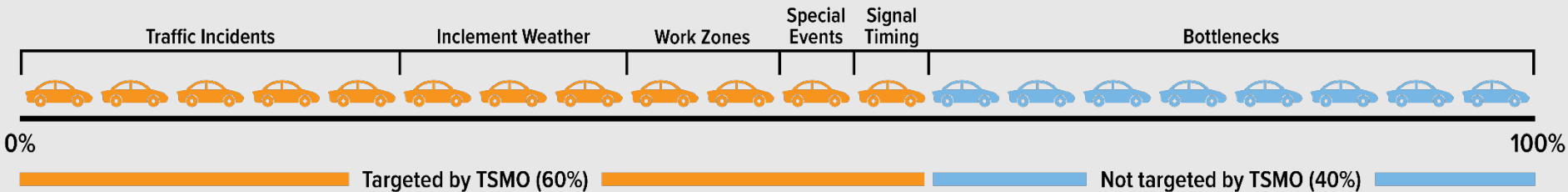


Congestion

- Travel Delay per Year is 8.8 Billion Hours
- 54 Hours Lost per Commuter per Year
- Cost of Gridlock is \$166 Billion per Year

Causes of Congestion

 = 5%



TSMO strategies could help reduce **60%** of all traffic congestion

Source: FHWA Traffic Congestion and Fatality Report
www.tinyurl.com/fhwacongestionreport



- **3,588 Fatalities** on Texas roadways in 2019
- **10** People Killed per Day on Average
- **November 7, 2000** - Last Deathless Day on Texas Roads
- **12,161** Serious Injury Crashes in 2018
- **249,241** Injury Crashes in 2018



Mission Zero



- The Texas Transportation Commission Adopted a Formal Goal to Achieve **Zero Fatalities** on Roadways by 2050 and Cut Fatalities in **Half** by 2035

Source: TxDOT (http://ftp.dot.state.tx.us/pub/txdot-info/trf/crash_statistics/2018/01.pdf)



Training Existing Staff

- Benefits
 - Joint venture with TTI – Traffic Signal Training Academy
 - Job Classification – Non-engineer career path
 - CAT Strategic Plan outlines restructuring options

- Limitations
 - FTE Cap
 - Organizational changes require agency buy in



Staff Augmentation

- Benefits
 - FTE's are limited
 - Being utilized at one division for rapid expansion
 - Used at TMC's and operations for staffing
 - More flexible with bringing on non-engineering personnel
 - Leveraged with a reorganization
 - Greater flexibility with compensation
- Limitations
 - Dedicated funding sources are required



Q&A

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