

## AGENDA

FHWA Evaluation of Low-Cost Safety Improvements Pooled Fund Study  
2018 Technical Advisory Committee Meeting, July 26-27, 2018

### DAY 1

#### 8:30 AM Morning Session

Welcome and Mission, Hari Kalla (Associate Administrator, RD&T and Director, TFHRC)/ James Pol (Acting Office Director, Safety R&D), and Roya Amjadi (The Development of Crash Modification Factors, Program Manager)

Introductions, All [15 min]

Overview of Meeting, polling tool, and PDHs, Raul Avelar, Marcus Brewer TTI [5 min]

Discussion of Peer Exchange Topics, All [20 min]

#### **Background of ELCSI**

Overview of ELCSI Pooled Fund Study, and general report, (Roya Amjadi, FHWA) [10 min]

#### **Roundtable Discussions on States' Low-Cost Countermeasure Evaluations and Lessons Learned (Karen Scurry, FHWA) [20 min]**

#### **Topic 1: Horizontal Curve Safety and High Friction Surface Treatments**

- Overview of HFST and Continuous Friction Measurement (Andy Mergenmeier, FHWA) [25 min]
- HFST in Florida (Joe Santos, FHWA) [10 min]
- HFST program evaluation (Matthew Keen, Volpe) [10 min]
- Continuous Friction Monitoring in VA (Stephen Read, VDOT) [10 min]
- Ongoing ELCSI-PFS evaluation: High Friction Surface Treatments (Frank Gross, VHB) [10 min]

#### **Topic 2: Intersections (including Roundabouts and Access Management)**

- Mini-roundabout applications (Wei Zhang, FHWA) [15 min]
- Intersection Database Initiative (Eric Green, University of Kentucky) [10 min]

12:00 PM Lunch

**Topic 2 (continued)**

1. Intersections (Jeff Shaw, FHWA) [15 min]
2. Ongoing ELCSI-PFS Evaluation: Safety Evaluation of Adaptive Signal Control Technology (Raul Avelar, TTI) [10 min]
3. Access Management Subtopics
  - a. ELCSI-PFS Completed evaluation: Safety Evaluation of Corner Clearance at Signalized Intersections. (Frank Gross, VHB) [5 min]
  - b. Turning Movement Restrictions at Stop-Controlled Intersections. (Frank Gross, VHB) [5 min]
  - c. Overview of NCHRP 17-74. (Frank Gross, VHB) [5 min]

**Topic 3: Pedestrians and Bicycles**

- Pedestrian and Bicycle Safety Program Overview (Tamara Redmond, FHWA) [10 min]
- Ongoing ELCSI-PFS evaluation: Safety Evaluation of Reducing Lane and Shoulder Width to add Bicycle Lane (Raul Avelar, TTI) [10-min]
- Ongoing FHWA research project: Safety Evaluation of Separated Bicycle Lanes (Karen Dixon, TTI) [10-min]
- Pedestrian Countdown Signals (Frank Gross, VHB) [10 min]
- Pedestrian Countermeasures CMF (Frank Gross, VHB) [10 min]

**Topic 4: Systemic Safety Improvements**

- Systemic Safety Evaluations (Karen Scurry (FHWA), and Frank Gross (VHB)) [15 min]
- ELCSI-PFS Completed evaluation: Contributing Factors for Focus Crash Types and Facility Types (Frank Gross, VHB) [10 min]

Roundtable discussion for challenges with systemic evaluations (Karen Scurry, FHWA) (20 min)

**Briefs from Invited Speakers**

- Connected Vehicle PFS (Gene McHale, FHWA) [5 min]
- Roadway Safety Data Program (Stuart Thompson, FHWA) [5 min]
- Infrastructure Based Motorcycle Crash Countermeasures. (Yusuf Mohamedshah, FHWA) [5 min]
- Human Factors Laboratory (Michelle Arnold, FHWA) [5 min]
- IIHS Roadway Activities (Jessica Cicchino, IIHS) [10 min]
- Updates from TRB (Bernardo Kleiner, TRB) [15 min]
- HSM2 update (Karen Dixon, TTI) [10 min]

**Topic 5: Speed Management**

- MUTCD 2009: road toward 2019 requirements for horizontal curve delineation. (Bill Lambert, New Hampshire DOT) [10 min]
- The Texas DOT experience toward the 2019 curve delineation requirements. (Darren McDaniel, TxDOT) [10 min]

5:30 PM Adjourn

DAY 2

8:00 AM Morning Session

### **Recap of Day 1**

#### **Topic 5: Speed Management (continued)**

- Ongoing Study: NCHRP 17-79 Safety Effects of Raising Speed Limits to 75 mph and Higher (Karen Dixon, TTI) [10 min]
- Ongoing ELCSI-PFS evaluation: Safety evaluation of variable speed limits (Raul Avelar, TTI) [10 min]

#### **Topic 6: Emerging Topics, Challenges, and Noteworthy Practices**

- SHRP2 Safety Research. (Charles Fay, FHWA) [10 min]
- NHI Course: Safety Data and Analysis Fundamentals Training. (Esther Strawder, FHWA) [5 min]
- Connected Vehicles Research (Deborah Curtis, FHWA) [10 min]
- Using Connected Vehicle Infrastructure to Improve Safety (David Swenka, CDOT) [10 min]
- Unanticipated costs of maintaining low-cost countermeasures (Jessica DeVille, Louisiana DOT) [10 min]
- Drainage maintenance as low-cost safety countermeasure (Kornel Kerenyi, FHWA) [10 min]
- Transition to use Force Account (Mark Thomas, Mississippi DOT) [10 min]
- TAC discussion on emerging topics [10 min]

#### **Topic 7: Roadway Departure**

- Roadway Departure: current efforts and resources (Menna Yassin, FHWA) [10 min]
- Florida Intersection and Lane Departure Plan (Joe Santos, FHWA) [10 min]
- Ongoing ELCSI-PFS evaluation: Safety evaluation of roadside treatments (Raul Avelar, TTI) [10 min]
- TAC discussion on roadway departure topics [10 min]

## **Peer Exchange**

This session will feature questions posed by TAC members to their peers. The purpose of this facilitated discussion is to share best practices and identify collective challenges. [60 min]

## **DCMF Program and ELCSI-PFS**

Future direction. (Roya Amjadi, Karen Scurry, and Stuart Thompson, FHWA) [15 min]

Poll Questions (Karen Scurry, FHWA) [5 min]

TACs discussion (20 min)

12:00 PM Lunch

1:00 PM Afternoon Session

## **Statistical Methodology and Training**

An overview of Full Bayesian Analyses (Eun Sug Park, TTI) [20 min]

Questions and discussion [10 min]

Announcement: Developing Quality CMFs Course (Karen Scurry, FHWA) [5 min]

1:30 PM Next Steps

## **TAC Input Form**

## **Peer Discussion on Future Evaluation Needs and Emerging Strategies**

## **CEUs and Other Follow-up**

2:30 PM Adjourn and depart for airports and hotel