



U.S. Department of Transportation
Federal Highway Administration



NATIONAL DIALOGUE ON
HIGHWAY AUTOMATION

FHWA National Dialogue on Highway Automation

Launch Workshop
Detroit, MI

June 7, 2018

Welcome



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Federal Highway Administration
Office of Operations



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Federal Highway Administration
Office of Policy and
Governmental Affairs

Why Are We Here Today?

- Kick off the National Dialogue on Highway Automation.
- Collaborate with key stakeholders on topics of mutual interest.
- Identify FHWA roles and responsibilities to assist in the advancement of highway automation.
- Seek opportunities for partnership.

National Dialogue **Goals**

1. Focus attention on highway automation readiness.
2. Catalyze nationwide engagement.
3. Evolve the national highway automation community.
4. Complement related USDOT summits.

National Dialogue **Objectives**

1. **LISTEN: Gather input** from a broad group of stakeholders on key issues, challenges, and concerns in highway automation.
2. **ENGAGE: Facilitate information sharing** among industry, public agencies, and others.
3. **EVOLVE: Update institutional structures** for working with existing and new stakeholders.
4. **INFORM: Raise awareness** of FHWA and USDOT activities in automation and emerging technologies.

Agenda

Time (ET)	Agenda Item	Name
8:00 AM	Welcome and Overview of Dialogue Objectives	Martin Knopp , Associate Administrator, FHWA Office of Operations Mala Parker , Associate Administrator, FHWA Office of Policy and Governmental Affairs
8:15 AM	Overview of Federal Highway Administration Activities	John Harding , Connected/Automated Vehicles and Emerging Technologies Team, FHWA Office of Operations
8:25 AM	National Organizations Panel <i>National organizations discuss key topics and issues related to highway automation, their roles, and their stakeholder perspectives</i>	Facilitated by Valerie Briggs , Director, FHWA Office of Transportation Management <ul style="list-style-type: none"> • Joe Barr, Director of Transportation, City of Cambridge, MA • Steve Gehring, Vice President of Vehicle Safety and Connected Automation, Global Automakers • Jill Ingrassia, Managing Director, Government Relations and Traffic Safety Advocacy, AAA • Russ Martin, Director of Government Relations, Governors Highway Safety Association • Kirk Steudle, Director, Michigan DOT
9:25 AM	Small Group Session 1 <i>Issues and Challenges for Highway Automation</i>	All Participants
10:20 AM	Break	
10:30 AM	Remarks and Introduction of Keynote	Shailen Bhatt, CEO, ITS America
10:35 AM	Keynote	Finch Fulton, Deputy Assistant Secretary for Transportation Policy USDOT – Office of the Secretary
10:50 AM	Small Group Session 2 <i>Developing New Models for Partnering: Bringing Industry, Government, and Associations Together</i>	All Participants
11:45 AM	Next Steps for the National Dialogue	All Participants
12:00 PM	Lunch (on your own)	
1:00 PM	Open Discussion	Facilitated by Valerie Briggs , Director, FHWA Office of Transportation Management
2:00 PM	Adjourn to ITSA Annual Meeting Plenary Session	All Participants



USDOT Activities in Automation

USDOT Activities in Automation

Modal Requests for Information and Comments on Automation

USDOT modal administrations released Requests for Information (RFIs) and Requests for Comment (RFCs) regarding automation and the specific areas of interest for their modes. These RFIs and their responses are posted in the *Federal Register*.

USDOT Activities in Automation (continued)

RFI and RFC Key Themes

- Greater **Uniformity and Quality** in road markings and traffic control devices would enable automation.
- FHWA should take a **Leadership** role in convening stakeholders to encourage collaboration.
- Certain **Data Elements** around the roadway environment are useful for industry, State, and local DOTs to share and could improve automation operations.
- Conducting **Pilots** and supporting pilot testing are important for facilitating learning, collaboration, and information sharing.
- **Uncertainty** in infrastructure investment and allocation of limited resources are key concerns for State and local agencies.

USDOT Activities in Automation (continued)

Event	Date	Summary / Outcomes
USDOT releases <i>Automated Driving Systems (ADS) 2.0: A Vision for Safety</i>	September 12, 2017	<ul style="list-style-type: none"> Replaces the 2016 Federal Automated Vehicles Policy. More information on ADS 2.0 is available on the NHTSA website: https://www.nhtsa.gov/technology-innovation/automated-vehicles.
Roundtable on Data for Automated Vehicle Safety	December 7, 2017	<ul style="list-style-type: none"> Demonstrated multimodal alignment around “One DOT” approach to Federal automated vehicle policy. Brought together over 60 participants from government, private sector, nonprofit organizations, universities, and research centers. Gathered feedback on USDOT’s Guiding Principles and Draft Framework.
Automated Vehicles 3.0 announced	January 10, 2018	<ul style="list-style-type: none"> Secretary Chao announced work on a follow-up Automated Vehicles 3.0 document, with a possible release date in 2018.
Public Listening Summit on Automated Vehicle Policy	March 1, 2018	<ul style="list-style-type: none"> Stakeholder engagement summit with senior leadership at USDOT. Focused on key cross-modal issues important to successful integration of automated vehicles.
National Dialogue Launch Webinar	May 8, 2018	<ul style="list-style-type: none"> Introductory webinar introducing the National Dialogue. 360+ attendees. Recording: https://connectdot.connectsolutions.com/p52h2c59wp92/.

National Dialogue on Highway Automation Overview

National Dialogue Overview **Outcomes**

1. Understanding of potential **impacts** on safety, highway infrastructure, policy, operations, and planning.
2. Prioritized actions to inform **integration** of automation into existing FHWA programs and policies.
3. Models for newly developed **partnerships**.
4. Insights into possible **technical guidance actions** at the Federal level.
5. Validation or direction into **highway research priorities and roles** among FHWA and stakeholders.
6. Development of a **national community or coalition on highway automation**.

National Dialogue Tentative **Schedule**

Month	Event	Location
June 7	National Dialogue Launch Workshop	Cobo Center, Detroit, MI
June 26-27	National Workshop 1 Planning and Policy Considerations for Highway Automation	Science History Institute Philadelphia, PA
July 12	Automated Vehicle Symposium FMCSA-FHWA Truck Automation Listening Session	San Francisco, CA
August 1-2	National Workshop 2 Digital Infrastructure and Data Considerations for Highway Automation	DoubleTree Hilton Seattle Airport Seattle, WA
Early September	National Workshop 3 Freight Considerations for Highway Automation	Chicago, IL
October 24-25	National Workshop 4 Operations Considerations for Highway Automation	Phoenix, AZ
Week of Nov. 12	National Workshop 5 Infrastructure Design and Safety Considerations for Highway Automation	Austin, TX

National Dialogue **Focus Areas**

Focus Area	Topics of Interest
Planning and Policy	<ul style="list-style-type: none">• Travel demand changes• Land use implications• Right-of-way Use• Regulatory/Policy Barriers
Digital Infrastructure and Data	<ul style="list-style-type: none">• Data requirements and needs (e.g., digital work zone maps, road closures)• Partnerships for data sharing and safety
Freight	<ul style="list-style-type: none">• Truck platooning application• Automated truck freight delivery issues• Implications on traffic patterns and operations
Operations	<ul style="list-style-type: none">• Identification of further research necessary to address operations challenges• Transportation Systems Management and Operations• Incident management• System Efficiency• Implications on traffic patterns and roadway capacity
Infrastructure Design and Safety	<ul style="list-style-type: none">• Infrastructure needs• Ensuring safety for road users, including drivers, pedestrians, bicyclists, and motorcyclists• Consistency• Collaboration to plan for locations where existing roadway infrastructure could lead to safety hazards



National Organizations Panel

Panel Speakers

Moderator: **Valerie Briggs**, Director, FHWA Office of Transportation Management

Panelists:

- **Joe Barr**, Director of Transportation, City of Cambridge, MA
- **Steve Gehring**, Vice President of Vehicle Safety and Connected Automation, Global Automakers
- **Jill Ingrassia**, Managing Director, Government Relations and Traffic Safety Advocacy, AAA
- **Russ Martin**, Director of Government Relations, Governors Highway Safety Association
- **Kirk Steudle**, Director, Michigan DOT

Questions?

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