



Enabling Automated and Connected Infrastructure Brainstorming Session Agenda

July 30, 2024 | 9:00 AM – 5:00 PM EST

[University of Michigan-Dearborn](#) | Institute for Advanced Vehicle Systems (IAVS)

223 Richard Dr, Dearborn, MI 48128

[Event Registration](#) and [Slido Session # 2153 297](#)

Attendees should review the [standards-driven PPP Models](#) and [Standards Readiness Phases](#) before discussions.

| TIME | DISCUSSION TOPIC AND SPEAKER |
|------------------|---|
| 8:30 – 9:00 am | Check-in & Networking |
| 9:00 – 9:15 am | Welcome Remarks – Ghassan Kridli, Ph.D., University of Michigan-Dearborn |
| 9:15 – 9:30 am | Brainstorming Session Objectives – Christine Bernat, ANSI |
| Session 1 | Technology Convergence and Standards Readiness Briefings |
| 9:30 – 10:15 am | Attendees will hear perspectives about challenges associated with critical and emerging technologies, work underway to address technology convergence, standards readiness considerations, and about topics that would benefit from additional awareness to prepare for the subsequent discussions. Presentations: <ol style="list-style-type: none"> 1. Timothy Klein, U.S. Department of Transportation: Technology convergence points (20 minutes) 2. Clare Allocca, NIST: Standards Readiness Considerations (10 minutes) 3. Christine Bernat, ANSI: Standards Readiness Phases (10 minutes) |
| Session 2 | Challenges, Opportunities, and Standards Readiness Discussion |
| 10:15 – 10:30 am | Automated and Connected Earthmoving & Mining Vehicles Briefing: Opportunities, and Standards Experience Presenter: Eric Moughler, ISO/TC 127 Earth Moving Machinery Chair |
| 10:30 – 10:40 am | Discussion Preparation: Challenges, Opportunities, and Standards Readiness – <i>Christine Bernat, ANSI</i> Various factors come into play when evaluating whether conditions are right to embark on a standardization activity for a given technology, and to help predict development needs and timing of a standardization strategy. Slido will be used to gather responses from attendees and the following questions will support the Automated and Connected Ground Vehicles and Aircraft discussions. <ol style="list-style-type: none"> 1. What opportunities and challenges are presented by automation and is there sufficient public and private stakeholder awareness on these fronts? 2. What role do stakeholders see standards playing in overcoming challenges? 3. What is the role of industry vs government to maximize opportunities? 4. What concerns have been raised about existing standards efforts? 5. What approaches could be taken to help align/maintain the pace of standards and technology development? 6. What regulation, policy and/or conformity assessment frameworks might be needed to enable or accelerate technology uptake? 7. What is the role of government to support standards development? |

**Public-Private Partnerships (PPP) in Implementation of the U.S.G. NSSCET
Automated and Connected Infrastructure Brainstorming Session Agenda**

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| 10:40 – 11:00 am | Networking Break |
| 11:00 – 12:00 pm | <p>Automated and Connected Ground Vehicles Discussion</p> <p>Moderator: Dr. Miles Johnson, Toyota Motor North America</p> <p>See question above. Discussions will center around:</p> <ul style="list-style-type: none"> - challenges and opportunities presented with automated and connected ground vehicles (all sizes/types) - maturity and pace of standards development - awareness about technology specific standards, conformity assessment and research and development activities underway or needed - what is needed to enable these technologies and to advance their success in the marketplace |
| 12:00 – 12:45 pm | <p>Break - Catered Lunch Provided</p> <p>During the lunch break, attendees are invited to visit the UM-Dearborn Digital Engineering Laboratory and Power Engineering Simulator/Research Lab. Learn more here.</p> |
| 12:45 – 1:45 pm | <p>Automated and Connected Aircraft Discussion</p> <p>Moderator: Jonathan Archer, SAE International</p> <p>See question above. Discussions will center around:</p> <ul style="list-style-type: none"> - challenges and opportunities presented with automated and connected aircraft (all categories) - maturity and pace of standards development - awareness about technology specific standards, conformity assessment and research and development activities underway or needed - what is needed to enable these technologies and to advance their success in the marketplace |
| Session 3 | Standards Driven Public-Private Partnerships (PPPs) |
| 1:45 – 1:55 pm | Discussion Preparation: PPP Enabling CETs – <i>Christine Bernat, ANSI</i> |
| 1:55– 2:25 pm | <p>Standards Driven Public-Private Partnership Models Briefings</p> <p>Attendees will gain a better understanding about various models and use cases of standards-driven PPPs, including lessons learned. Discussions will center around: the types of PPPs that would enable standards development; how PPPs may maximize specific opportunities and accelerate solutions; and the community interest in establishing PPPs.</p> <p>Panelists:</p> <ul style="list-style-type: none"> - Government Perspective: Natalia Globus Martin, National Institute of Standards and Technology (NIST) - SDO Perspective: Pat Picariello, ASTM International |
| 2:25 – 3:15 pm | <p>Public-Private Partnerships: Enabling CETs Discussion</p> <p>Moderator: Ted Sienknecht, MITRE</p> <p>Discussion:</p> <ol style="list-style-type: none"> 1. What benefits or challenges do you see with a PPP for these technologies? 2. What role can various types of stakeholder organizations play in PPPs for these technologies (e.g., consortia, trade associations, academia, standards organizations, centers of excellence)? 3. What PPP short-term and long-term goals would have the broadest impact on success (e.g., standards focused R&D, workforce development, research and standards roadmaps, strategic planning)? 4. What type of PPP model or models could benefit these technologies? 5. At what (if any) point would an organized PPP activity be most advantageous? 6. Does a PPP require a formal agreement to be able to realize its purpose? |

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| 3:15 – 3:30 pm | Networking Break |
| Session 4 | Information Sharing Necessary to Support CET Standards Development |
| 3:30 – 4:00 pm | <p>Current State of Information Sharing</p> <p>Attendees will gain a better understanding about existing information-sharing approaches in the standardization community today (tracking tools, standards roadmaps, workshops/webinars, etc.). Discussions will center around the types of information needed to be shared, how to best gather and deliver this information in order to reach appropriate audiences, as well as how that information would be utilized.</p> <p>Presentations:</p> <ul style="list-style-type: none"> - Mary Saunders, American National Standards Institute (ANSI): <i>What information is being shared today?</i> - Maria Knake, National Institute of Standards and Technology (NIST): <i>What did industry suggest in RFI responses and past listening sessions?</i> |
| 4:00 – 4:45 pm | <p>Future State of Information Sharing Discussion</p> <p>Moderator: Christian Thiele, SAE International</p> <p>Discussion:</p> <ol style="list-style-type: none"> 1. What are the current communication challenges? 2. During the pre-standardization phases of technology, it is important to begin educating about the value and benefits of standards. How can we amplify this messaging to ensure it reaches the appropriate stakeholders? 3. During the standards development phases, how can stakeholders best socialize the standards development activity to get diverse and targeted stakeholders? 4. During the implementation phases, can we increase the adoption of a standard once published? Think about this from a market adoption, regulatory acceptance, and/or conformity assessment 5. How can bilateral communications between the public and private sector support CETs? 6. Where is standards education needed to broaden stakeholder knowledge? <ul style="list-style-type: none"> ▪ What education should be coordinated by the private sector, and/or by the U.S. government? ▪ Are there concerns about duplication, inconsistency, ambiguity of standards development efforts for these technologies today? |
| 4:45 – 5:00 pm | Closing Remarks – Christine Bernat, ANSI |
| 5:15 – 6:30 pm | <p>UM-Dearborn Driving Simulator Lab Tour and ImplI-FI Technology Demo</p> <p>After the conclusion of our event, from approximately 5:15-6:30 pm, attendees are invited to visit UofM-Dearborn Driving Simulator Lab. Learn more here.</p> |

For more information, contact Christine DeJong Bernat, Associate Director, Standards Facilitation (cbernat@ansi.org; 212.642.8919) or Rachel Hawthorne, Senior Manager, ISO Outreach and Enhanced Services (rhawthorne@ansi.org; 212.642.4938).