Consensus Safety Measurement Methodologies for Automated Vehicles Workshop

NIST Gaithersburg Campus

June 25-26, 2019

Purpose

The automotive industry is planning to deploy automated vehicles (AV), at least at the level of NHTSA AV Level 3 (conditional automation), in the very near term with most major manufacturers (OEMs) targeting the early 2020s. Community consensus around reliable, broadly-acceptable performance measurement methods for assessing the safety of automated vehicles can facilitate the successful achievement of these deployment goals. This workshop will explore the need for a common methodology, emerging concepts and possible paths toward consensus.

DRAFT Agenda

Tuesday, June 25, 2019

9:00 AM  Welcome and Introductions: NIST, US Dept. of Transportation, Intel, Lyft, possibly others.

9:15 AM  Workshop Overview and Goals: Chris Greer, NIST
          Consensus measurement as innovation driver

9:45 AM  The Safe Integration of Automated Driving Systems (ADS): USDOT
          The role of safety in AV innovation and adoption

10:15 AM  State Perspectives
          10 - 15 mins each, 2-3 state representatives

10:45 AM  Break

11:00 AM  Development Community Perspective (Auto and Tech)
          10 mins each, 5 community representatives

12:00 PM  ADS Sector Perspective
          10 - 15 mins each, 2-3 sector representatives

12:30 PM  Standards and Testing Organizations Perspective (US and International)
          10 - 15 mins each, 2-3 sector representatives

1:00 PM  Lunch (on your own, NIST cafeteria)

1:50 PM  Example Methodologies
          15 -20 mins each, 3-4 examples
2:50 PM  Break

3:00 PM  Breakout Sessions
3 or more subgroups: Topics to be determined, topics may include Assessment of the presented methodologies, and Ideas on establishing a comprehensive, implementable methodology

4:15 PM  Break to Reconvene Plenary

4:30 PM  Interim Breakout Group Reports
5 mins per breakout group

4:45 PM  Day 1 wrap-up, Day 2 plan, Adjourn

Wednesday, June 26, 2019

9:00 AM  Day Two Opening Remarks, NIST/USDOT

9:15 AM  Collaboration for Innovation
How do we collaborate on safety in ways that enable innovation and facilitate product differentiation for healthy competition?

20 mins  USDOT – topic may include perspective on Voluntary Safety Self Assessment

20 mins  TBD presenter – topic may include collaboration/competition perspectives from a traditional automobile developer

20 mins  TBD presenter – topic may include proposal of a model for cross-industry collaboration from a system developer

10:15 AM  Break

10:30 AM  Reconvene Breakout Groups
Focus: Perspectives on the effective collaboration strategies

11:30 AM  Lunch (on your own, NIST cafeteria)

12:30 AM  Breakout Groups
Focus: The path forward – How should we proceed? How should we organize? Next steps?

1:45 PM  Report outs
20 mins per breakout group

2:45 PM  Next Steps (NIST and USDOT) and conclusion of workshop

3:00 PM  Adjourn