Connected/Automated Vehicles at TRB
May 2, 2016
Transportation Research Board (TRB)

• Convene
  – Annual meeting, 12,000+ attendees
  – 200+ committees, 7,000+ volunteers
  – 70 conferences and workshops

• Research
  – Cooperative research programs in highways, airports, and transit

• Advise
  – Independent, objective policy studies
National Cooperative Highway Research Program (NCHRP)

- Funded voluntarily by state DOTs
- "AASHTO’s Research Program" for over 50 years
- $40M annual budget
- Focused on applied research that addresses state DOT issues
- Managed by the Transportation Research Board
Impacts of CVs and AVs on State and Local Transportation Agencies [NCHRP 20-102]

• Project approved in Dec 2014
• $3.5M authorized to-date; additional $ hoped for in future years
• Panel decides which tasks to pursue
  – Principally from a research roadmap developed in NCHRP Project 20-24(98)
• Contractors selected through limited, closed competition
Active Tasks for NCHRP 20-102

- Implications of Automation for Motor Vehicle Codes ($350k)
- Providing Support to the Introduction of CV/AV Impacts into Regional Transportation Planning and Modeling Tools ($300k)
- Dedicating Lanes for Priority or Exclusive Use by CVs and AVs ($350k)
- Road Markings for Machine Vision ($200k)
Active Tasks for NCHRP 20-102 (cont.)

- Evaluation Guidance for AV Pilot and Demonstration Projects ($70k)
- Policy and Planning Actions to Internalize Societal Impacts of CV and AV Systems into Market Decisions ($400k)
- Impacts of Regulations and Policies on CV and AV Technology Introduction in Transit Operations ($150k)
- Challenges to CV and AV Applications in Truck Freight Operations ($150k)
- Strategic Communications Plan for NCHRP 20-102 ($100k)
• Civil Liability for Personal Injury
• Criminal Law and Procedure
• Evolving Insurance Matrix
• Privacy and Security Laws
• Legislative and Regulatory Issues
• Sustainability Issues
  • Land use, environment, infrastructure
• July 19th-21st; San Francisco
• 1,000 attendees expected
• Sessions and Breakouts:
  – Policy Making for Automated Vehicles: A Proactive Approach for Government
  – Law & Policy as Infrastructure
  – Ethical and Social Implications
  – “AV-Ready Cities” or “City-Ready AVs?”
Partners in Research Summit
Transformational Technologies In Transportation
Fall 2016 - Michigan
Partners in Research Summit

• Transportation policy & research leaders
• Public/private sectors, academia
• Explore partnering opportunities to:
  – Identify research needs
  – Foster needed research

To enable transportation public agencies to prepare for transformational technologies in a manner and timeframe that best serves the public interest