KITTELSON LLC
FORENSIC TRANSPORTATION ENGINEERING

ABBY MORGAN, PH.D., P.E.
PRINCIPAL ENGINEER

EXPERT NOT RETAINED

EDUCATION

- Ph.D., Transportation Engineering, Purdue University, 2010
- M.S., Civil Engineering, Washington University in St. Louis, 2007
- B.S., Civil Engineering, Washington University in St. Louis, 2007

PROFESSIONAL STATUS

- Licensed Professional Civil Engineer, State of Virginia, License No. 0402054388
- Licensed Professional Civil Engineer, State of Florida, License No. 81756

PROFESSIONAL ASSOCIATIONS

- TRB Committee on Truck and Bus Safety, Technology Subcommittee Chair, 2020-2025
- TRB Committee on Developments and Advancements in Transportation Technology Law, 2025-present

PROFESSIONAL EXPERIENCE

USDOT / NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA)

2011-2016, *Crash Avoidance Safety Standards Engineer*

Prior to KAI, Abby worked for the National Highway Traffic Safety Administration (NHTSA) as a Rulemaking Engineer. She developed Federal motor vehicle safety standards and policy recommendations for crash avoidance technologies related to braking, steering, and vehicle handling. She frequently coordinated with stakeholders to identify reasonable alternatives for regulation and compliance test programs. Her responsibilities included developing regulatory and policy recommendations for NHTSA and responding to Congressional and media inquiries related to technical and policy issues.

Selected NHTSA Publications:

- Glassbrenner, D., Morgan, A., et al., 2017. *A target population for Automatic Emergency Braking in Heavy Vehicles*, USDOT/NHTSA, DOT HS 812 390.
- NHTSA, 2015. *Grant of Petition for Rulemaking: Heavy Vehicle Automatic Forward Collision Avoidance and Mitigation Systems*, 80 FR 62487, 16 October 2015.
- NHTSA, 2015. *New Car Assessment Program: Request for Comments on Automatic Emergency Braking*, 80 FR 4630, 28 January 2015.
- NHTSA, 2012. *Advanced Braking Technologies that Rely on Forward-Looking Sensors: Request for Comments*, 77 FR 39561, 3 July 2012.

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2016-present, *Principal Engineer*

Regulatory Assessment of Remote Driving and Remote Assistance; *Principal Investigator.* Abby led the national assessment providing guidance to states that want to develop regulatory or legislative requirements for remote driving or for remote assistance of automated vehicles. The research identified best practices for defining these remote human roles, outlined enforcement challenges, and specified additional research needs to support effective legislation. This study was led by Ohio DOT and funded by 8 state DOTs through the Automated Vehicle Pooled Fund Study.

Guidance for Sustainable Integration of Automated Transportation Technologies; *Principal Investigator*. Abby wrote a concise guidebook for roadway infrastructure owner-operators to guide decision making on automated vehicle-supportive infrastructure investments. This study was also conducted through the Automated Vehicle Pooled Fund Study.

Alaska Weigh-In-Motion (WIM) Plan Update; *Lead Engineer*. Abby updated Alaska's statewide WIM plan by assessing the state's freight characteristics, data collection needs, and federal reporting requirements. Abby led stakeholder interviews with the trucking industry, WIM vendor, and various divisions across AK DOT&PF to understand the strengths and challenges of the existing WIM program. She identified barriers to data sharing across divisions and developed a strategy to reuse existing equipment from decommissioned sites, plan for safety during temporary roadside inspections using Portable WIM sensors, and make WIM data reports more accessible to all divisions in the Department.

NCHRP Project 08-117: Impact of Transformational Technologies on Land Use and Transportation; *Deputy Project Manager.* Abby was the lead researcher and co-author of the first national guidebook, *Report 924: Foreseeing the Impact of Transformational Technologies on Land Use and Transportation*. The research developed a process for state DOTs and local planning agencies to prepare for impacts of new technologies through self-assessment, data and information gathering, new partnerships, and nimble policy. Her guidance addresses the impacts of e-commerce on freight delivery, distribution, warehousing, as well as rural and urban freight transportation needs.

USDOT Connected Vehicle (CV) Pilot Deployment Evaluations—Wyoming, Tampa, New York City; *Kittelson Project Manager*. Kittelson led the independent mobility evaluations for FHWA of all three USDOT CV Pilot Deployment Programs in Tampa, New York City, and Wyoming. Abby applied her technical knowledge of CV communications, her understanding of public agency performance measures, and her experience in transportation mobility simulation to write the Analysis, Modeling, and Simulation plans to estimate potential future benefits of expanded CV deployments.

Selected Presentations and Publications:

- Morgan, A., Bennett, S., 2026. "Remote Driving: Updates from the United States", Presented to the United Nations Economic Commission for Europe (UNECE) Working Party 1 (WP.1), October 7, 2026. Geneva, CH.
- Morgan, A. D., Mannering, F. L., 2011. The effects of road-surface conditions, age, and gender on driver-injury severities, Accident Analysis and Prevention 43(5), 1852-1863. [342 citations]
- Dowling, R., Morgan, A., NCHRP Report 924, Foreseeing the Impact of Transformational Technologies on Land Use and Transportation, Transportation Research Board, Washington, DC, 2019.
- Morgan, A., et al., 2018. Connected Vehicle Pilot Deployment Program Independent Evaluation: Analysis Modeling, Simulation Plan - Wyoming, USDOT/ITS-JPO, FHWA-JPO-18-663.

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