



TEXAS TECHNOLOGY TASK FORCE

Agenda

TxDOT Greer Building | 125 E 11th St. | Austin, TX
July 30th, 2019

Objectives:

- 1) Identify the trends and technologies driving innovation in freight and logistics.
 - 2) Discover new trends and emerging technologies impacting critical mobility spaces, including mobility-as-a-service, connected vehicle applications, long-range planning, and data management.
 - 3) Discuss technological and institutional advancements that will enable next-generation mobility data sharing.
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9:00 AM | Welcome & Opening Remarks – *Darran Anderson, TxDOT & C. Michael Walton, UT Austin*

9:15 AM | Progress Update – *UT Austin Research Team*

Report out on key transportation initiatives and progress of the Texas Technology Task Force's, including outcomes of the 86th Texas Legislative Session, highlights from ongoing national activities, and the Task Force's development of the Technology Utilization Plan.

9:45 AM | Panel Presentations: Freight and Logistics Innovations

Moderator: *John Larkin, Operating Partner, Clarendon Capital, LLC*

Major players in the freight and logistics sector join the Task Force to showcase the cutting-edge innovations and partnerships that are shaping the way they do business and move goods. Technologies including drones, blockchain, 3-D printing, automation, and robotics are being piloted and implemented throughout all aspects of the supply chain. For instance, 3-D printing is altering business models and strategy behind shipping hub locations, which could dramatically shape long-term freight flows. Meanwhile, robotics and automation are changing warehouse and hub operations, potentially offering safety and efficiency benefits for companies and their employees, but also changing the required skillsets and workforce needs. Drones are poised to transform the physical delivery of goods, especially at the last mile, while blockchain is finding applications in the digital transfer of goods between shippers or vessels. In this panel and facilitated discussion, the Task Force will learn about the frontier of freight and logistics operations and how technology will drive major process changes.

Dale Chrystie, Business Fellow and Blockchain Strategist, *FedEx Freight (blockchain and 3-D printing)*

Robert Brown, Director of Public Affairs, *TuSimple (truck automation)*

Adriel Lubarsky, Director of Business Development, *Udelv (last-mile automated vehicle delivery)**

Russell Laughlin, Executive Vice President, *Hillwood (land development and intermodal facilities)*

11:00 AM | Break

11:15 AM | Update on the Texas Innovation Alliance & Task Force White Papers – *UT Austin Research Team*

The research team presents critical activities of the Texas Innovation Alliance, including participation in national grants, deep-dive topics discussed in the Communities of Practice, and regional priorities leading up to the Texas Mobility Summit. The research team presents on major disruptors in the mobility space and key findings from the 2019 whitepapers on the following topics:

- Mobility-as-a-Service
- Connected Vehicle Applications
- Scenario Planning
- Data Sharing

11:35 AM | CAV Roadway Project – *Michael Morris, NCTCOG*

Presentation of a concept on designing a key highway corridor to facilitate next generation connected and autonomous vehicle deployment and testing.

12:00 PM | Lunch: The Convergence of Wearables and Transportation

Bryan Groden, Senior Director, Gartner

Wearable technology is filling numerous functions, from personal use as smart wristbands and activity trackers to industrial-scale operations. In the warehouse, smart glasses combine with augmented reality to track inventory or direct goods picking and packing. Smart gloves can scan barcodes and replace other monitor-based equipment. Smart watches can facilitate worker communications and alerts. Exoskeletons can reduce the strain on worker's backs as they lift and carry heavy objects. The result of these technologies can reduce time spent on repetitive tasks, increase productivity, and decrease errors, but more importantly, can protect the wellbeing and health of employees in demanding jobs.

1:00 PM | Break

1:15 PM | The Texas Connected and Automated Vehicle Task Force Update – *Zeke Reyna, TxDOT*

In January 2019, Governor Abbott directed TxDOT to create a Connected and Autonomous Vehicle (CAV) Task Force. The CAV Task Force is designed to be a one-stop resource for information and coordination on all ongoing CAV projects, investments, and initiatives in Texas.

TxDOT will provide an introductory overview of the CAV Task Force. Following, key public and private stakeholders will discuss socioeconomic, technical, and policy priorities to inform the future CAV strategies and tactics in Texas.

1:30 PM | Panel Presentations: Mobility Data-sharing Across Sectors and Jurisdictions

Moderator: Greg Rodriguez, *Best, Best, & Krieger*

Increasing complexity in the mobility service environment, such as the advent of new modes and changing proportion of public and private entities in the space, has made data sharing more important than ever. It is in all parties, public and private, best interest to agree on systems or methods for data exchange. Luckily, the same technological innovations that enable many of these new modes also make it possible to transform, exchange, and transfer data securely, in real time across numerous data architectures. There are numerous ways to securely and quickly transfer data between transportation entities—what remains is to pick amongst the options, to find a consensus on the data exchange procedure. This panel will discuss the pros and cons of extending different data pipelines for data sharing tasks, and how current data reporting and collection efforts can be applied to solve both internal and external data exchange problems.

Paul-Matthew Zamsky, *Head of Strategic Partnerships, Waycare*

Kansas Waugh, *Director of Mobility Partnerships, Populus*

Avery Ash, *Head of Autonomous Mobility, INRIX*

Jason JonMichael, *Assistant Director, Smart Mobility, Austin Transportation Department*

Cassie Jordan, *Director, IT Strategy & Portfolio Management, TxDOT*

3:30 PM | Closing Remarks and Next Steps – *Darran Anderson, TxDOT & C. Michael Walton, UT Austin*

4:00 PM | Adjourn
