



TEXAS TECHNOLOGY TASK FORCE

Agenda

Texas Department of Transportation
125 East 11th Street
Ric Williamson Hearing Room
Austin, Texas 78701 ([Map](#))
October 22nd, 2019

Objectives:

- 1) Identify the trends and technologies driving innovation in unmanned aerial vehicles as well as early use cases and opportunities for future activities
 - 2) Discover outcomes and successes of past Task Force activities and how they have shaped TxDOT internal initiatives
 - 3) Plan future activities of the Task Force including opportunities to collaborate with other TxDOT innovation initiatives
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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*

9:30 AM | Roundtable Discussion: Unmanned Aerial Systems (UAS) — *UT Austin Research Team*

Important figures in research, public agencies, and private industry come together to discuss the opportunity and next steps for implementation, further deployment, and opportunities offered by UAS. Included in this discussion are the policy implications and hurdles faced in the future of UAV technology. Benefits of UAV technology can be shown in cases of package delivery, monitoring and inspection, and emergency response. Additionally, these benefits can be supplied to rural areas as well, often left out of the discussion of emerging technologies. For instance, package delivery is a use case greatly impacted as it offers improved speed of delivery and alternative last mile delivery options. Monitoring and inspection improves as crowds of people can be safely monitored in large events. Lastly, opportunity exists in emergency response including fire safety to scan for safe citizens or in wildfires to track the progress and concerns. Through this discussion the Task Force will learn about the opportunities and existing hurdles for the future development of UAS technology.

9:35 AM | Topic 1: Baseline & Scan of UAS Initiatives – *Joe Henry, Lonestar UAS*

9:45 AM | Topic 2: Use Cases and Applications – *JD Stanley, TTTF Member*

10:30 AM | Break

10:35 AM | Overview of National Policies & Activities – *Tom McMahon, AUVSI*

10:45 AM | Topic 3: Enabling Technologies & Policies – *JD Stanley, TTTF Member*

11:30 AM | Facilitated Discussion on Opportunities & Roadmap for the Future – *Michael Morris, TTTF Member*

A facilitated discussion on the opportunities for future collaboration and enabling of UAS advancement.

12:00 PM | Concluding Remarks on UAS – *Darran Anderson, TxDOT & C. Michael Walton, UT Austin*

12:10 PM | Lunch



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Planning Session

1:00 PM | TxDOT Innovation Programs – Yvette Flores, TxDOT Strategic Planning

TxDOT presentation on outcomes and programs that have stemmed from Task Force meetings. A discussion will follow providing insight on how the Task Force can collaborate with other innovation programs such as the Texas Innovation Alliance, the Governors' CAV Task Force, and the State Transportation Innovation Council (STIC)

1:30 PM | Task Force Planning & Strategy Discussion – Shelley Row, TTTF Member

A planning session among Task Force members to discuss priority topics, collaboration with other TxDOT programs, and future activities.

2:30 PM | Closing Remarks and Next Steps – Darran Anderson, TxDOT & C. Michael Walton, UT Austin

3:00 PM | Adjourn





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Invited UAS Subject Matter Experts

Lawrence Williams, Zipline, UAS delivery

Lt. Aaron Fritch, Texas Highway Patrol, crash reconstruction

Coitt Kessler, Austin Fire Department, emergency response & inspection

Jason Day, Texas Department of Public Safety, public safety

Scott Drennan, Bell, autonomous aerial transport

Chris Eyhorn, DroneSense, UAS management platforms

TBD, Cisco, systems integration

Jeff DeCoux, Atrius, system integration & strategy

James Singer, Dell CTO Office, system integration & strategy

Ted Lehr, City of Austin, autonomous corridors

Karla Taylor, City of Austin, local policies & regulations

Jermain Defreeze, City of Austin, building services

Jonathan Martin, TxDOT Design Division, photogrammetry

Chris Glancy, TxDOT RTI, research application for UAS

Ernest Huffman, NCTCOG, Unmanned Aerial Systems program

Al Brunner, Federal Aviation Administration, national policy & regulations

Joe Henry, Lone Star UAS Center of Excellence and Innovation, testing & research