Mobility Innovation Zone

Christian Childs, Hillwood
January 28, 2020
Today’s Discussion

- Forces Driving Mobility Innovation
- AllianceTexas: A Unique Platform
- Creating a Mobility Innovation Zone
Why mobility innovation?

- Rapid Growth and Change across the Transportation Industry
- Need for Partnership and Integration

$3.6 Billion+
Truck Technology
Investment in Trucking Technology Reached a New Peak in 2018

$14.1 Billion+
Drone Technology
Market Size in 2020

100 Billion+
Parcel Shipments
Expected Shipments in 2020

Source: Deloitte
Challenges to Commercialization

Vision:
Finding ONE test bed location to represent a variety of real-world situations

Reality:
Testing in multiple environments is costly and impractical

AIRSPACE
Aerial testing requires:
1. A variety of airspace types
2. Regulatory relationships
3. Population density variations

AUTONOMOUS VEHICLE
Testing autonomous vehicles:
1. Private streets and public roads and highways
2. Partnerships with potential customers
3. Research facilities and university labs nearby

POPULATION DENSITY
Rural areas and urban areas are typically mutually exclusive in their locations:
1. Comprehensive UAV and UAS testing
2. Unmanned aerial and ground technology
3. Consumer adoption testing

PARTNERSHIPS
Interest and input from various industries is required:
1. Regulatory access and participation
2. Access to various industries for use and adoption testing
3. Ultimately, commercialization will require access from creators, regulators, users, and customers
A Pioneering Vision
AllianceTexas is a 26,000-acre masterplan community developed by Hillwood

$9.8 billion invested
$76 billion economic impact
45 million SF developed

507 corporate residents
70 top ranked companies
61,602 total employees

Population of 2 million within 20 miles of the center of AllianceTexas
Alliance Center

- Two 11,000 ft. Parallel All-Weather Runways
- FAA Air Traffic Control Tower 24/7/365
- On-site U.S. Customs
- Amazon Prime Air Freight Hub, FedEx Hubs, and UPS Ground
- Adjacent Hangar, Warehouse, and Office Space
Alliance Westport

- Two Class I Rail Lines
- BNSF Intermodal Hub – 1M Lifts/Year
- 3,500 Trucks/Day
- Interstate Highway 35 from Mexico to Canada
- Foreign Trade Zone #196
Alliance Gateway

- 19.4M SF developed
- Additional 4.1M SF of future build-out
- Frontage on SH-170 and US-377
- 400-acre dedicated data center campus
- Ability to deliver 400 megawatts at full build-out
**Corporate Residents**

AllianceTexas has attracted some of the world’s most globally recognized brands, across an array of industries, that can be partners in the Mobility Innovation Zone.

<table>
<thead>
<tr>
<th>AUTOMOBILE</th>
<th>AEROSPACE/AVIATION</th>
<th>FINANCIAL SERVICES</th>
<th>LOGISTICS</th>
<th>E-COMMERCE/TECHNOLOGY</th>
<th>PHARMACEUTICAL/HEALTHCARE</th>
<th>CONSUMER GOODS/SERVICES</th>
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</thead>
<tbody>
<tr>
<td>BRIDGESTONE</td>
<td>GDC</td>
<td>Charles Schwab</td>
<td>FedEx</td>
<td>Amazon</td>
<td>AmersourceBergen</td>
<td>BEHR</td>
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<td>Ford</td>
<td>RECARO</td>
<td>Mercedes-Benz</td>
<td>DB Schenker</td>
<td>LG Electronics</td>
<td>Cook Children’s</td>
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<td>ATD</td>
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<td></td>
<td>NFI</td>
<td>Facebook</td>
<td>Cardinal Health</td>
<td>Callaway</td>
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<tr>
<td>DynCorp</td>
<td></td>
<td></td>
<td>Exel</td>
<td>Walmart</td>
<td>Medical City Alliance</td>
<td>Coca-Cola</td>
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<td>GM</td>
<td>ATAC</td>
<td>Fidelity</td>
<td>XPO Logistics</td>
<td>Walmart</td>
<td>McKesson</td>
<td>General Mills</td>
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<td>HYUNDAI</td>
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<td>Deloitte</td>
<td>BNSF</td>
<td>AT&amp;T</td>
<td>McKesson</td>
<td>Kraft</td>
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<tr>
<td>tucker</td>
<td>HILLWOOD AIRWAYS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stanley Black &amp; Decker</td>
</tr>
<tr>
<td>Volkswagen</td>
<td>BELL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Nestle</td>
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</tbody>
</table>
AllianceTexas Mobility Innovation Zone

Leveraging the AllianceTexas Platform to Convene Corporates, Start-ups, Academics, Policy Makers to Create a Mobility Innovation “Do-Tank”
A comprehensive testing environment, AllianceTexas encompasses areas that represent multiple cities, regulatory environments, and industries to fully develop, from idea to commercialization, tools for tomorrow’s market.
The Mobility Innovation Zone:

- Integrates Innovative Smart Infrastructure
- Fosters Innovation Across Supply Chains
- Provides Validation Ground for Future Aviation Technology
- Leverages New Emerging Technology
- Convenes Ecosystem Stakeholders
Mobility Innovation Zone Roadmap

Activate
- Jump start initial use cases to demonstrate zone at AllianceTexas
- Outreach to regional stakeholders—regulators, policymakers, academic institutions and private sector

Formalize
- Expand on the initial use cases and introduce new ones
- Promote the Mobility Innovation Zone opportunity and success to stories to local and national stakeholders

Scale
- Facilitate growth into “living lab”, adjusting approach as needed
- Track & publicize economic development impact for the region
Thank you
Overview

• Background
  - Government Use
  - Industry Use

• Demand
  - $89 Billion Projected Market Size
  - 100,000 jobs projected to be created
  - 80% public support for domestic use
  - 300+ identified commercial uses
## ACCESS TO OCCUPATIONAL DATA

### Transportation, Distribution, Logistics Sector

<table>
<thead>
<tr>
<th></th>
<th>Collin County</th>
<th>Dallas County</th>
<th>Denton County</th>
<th>Palo Pinto County</th>
<th>Tarrant County</th>
<th>Travis County</th>
<th>Harris County</th>
<th>El Paso County</th>
<th>Region 11 Education Service Center</th>
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<tbody>
<tr>
<td>2014 Total Employment</td>
<td>5,712</td>
<td>81,024</td>
<td>8,060</td>
<td>213</td>
<td>67,600</td>
<td>13,717</td>
<td>128,281</td>
<td>15,762</td>
<td>86,818</td>
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<tr>
<td>2018 Total Employment</td>
<td>8,446</td>
<td>111,729</td>
<td>15,408</td>
<td>284</td>
<td>84,917</td>
<td>19,436</td>
<td>138,176</td>
<td>18,299</td>
<td>109,771</td>
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<tr>
<td>2014-2018 Employment Change (#)</td>
<td>2,734</td>
<td>30,705</td>
<td>7,348</td>
<td>71</td>
<td>17,317</td>
<td>5,719</td>
<td>9,895</td>
<td>2,537</td>
<td>22,954</td>
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<tr>
<td>2014-2018 Employment Change (%)</td>
<td>47.9%</td>
<td>37.9%</td>
<td>91.2%</td>
<td>33.4%</td>
<td>25.6%</td>
<td>41.7%</td>
<td>7.7%</td>
<td>16.1%</td>
<td>26.4%</td>
</tr>
<tr>
<td>Avg Annual Wages per Worker</td>
<td>$51,693</td>
<td>$52,978</td>
<td>$44,960</td>
<td>$66,758</td>
<td>$65,094</td>
<td>$50,089</td>
<td>$75,508</td>
<td>$46,680</td>
<td>$61,869</td>
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<tr>
<td>Job Postings (Oct. 2019)</td>
<td>1,183</td>
<td>4,808</td>
<td>1,164</td>
<td>1,164</td>
<td>3,767</td>
<td>2,001</td>
<td>5,346</td>
<td>913</td>
<td>5,879</td>
</tr>
</tbody>
</table>

**Critical Certification:** Certified Logistics Technician (CLT)

**National Provider:** Manufacturing Skill Standards Council (MSSC)

**Website:** https://www.msscusa.org/
## ACCESS TO OCCUPATIONAL DATA
### Advanced Manufacturing Sector

<table>
<thead>
<tr>
<th>Advanced Manufacturing</th>
<th>Collin County</th>
<th>Dallas County</th>
<th>Denton County</th>
<th>Palo Pinto County</th>
<th>Tarrant County</th>
<th>Travis County</th>
<th>Harris County</th>
<th>El Paso County</th>
<th>Region 11 Education Service Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014 Total Employment</td>
<td>16,393</td>
<td>45,996</td>
<td>7,418</td>
<td>730</td>
<td>48,486</td>
<td>29,438</td>
<td>99,572</td>
<td>4,741</td>
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<td>2018 Total Employment</td>
<td>18,298</td>
<td>48,484</td>
<td>9,048</td>
<td>1,036</td>
<td>47,104</td>
<td>28,123</td>
<td>83,334</td>
<td>4,767</td>
<td>64,374</td>
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<tr>
<td>2014-2018 Employment Change (#)</td>
<td>1,906</td>
<td>2,488</td>
<td>1,630</td>
<td>306</td>
<td>-1,382</td>
<td>-1,316</td>
<td>-16,238</td>
<td>27</td>
<td>-872</td>
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<tr>
<td>2014-2018 Employment Change (%)</td>
<td>11.6%</td>
<td>5.4%</td>
<td>22.0%</td>
<td>41.9%</td>
<td>-2.9%</td>
<td>-4.5%</td>
<td>-16.3%</td>
<td>0.6%</td>
<td>-1.3%</td>
</tr>
<tr>
<td>Avg Annual Wages per Worker</td>
<td>$121,944</td>
<td>$114,433</td>
<td>$77,394</td>
<td>$68,023</td>
<td>$97,237</td>
<td>$123,526</td>
<td>$115,665</td>
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<tr>
<td>Job Postings (Oct. 2019)</td>
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<td>5,378</td>
<td>393</td>
<td>2</td>
<td>1,552</td>
<td>3,590</td>
<td>8,846</td>
<td>570</td>
<td>2,031</td>
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</table>

Critical Certification: Certified Product Technician (CPT)
National Provider: Manufacturing Skill Standards Council (MSSC)
Website: https://www.msscusa.org/
UAS Workforce Steering Committee

- Partnership between FWISD, COG
- Supported by TEA Grant
- Integrated 2 Initiatives
  - FWISD Grant Project
  - COG Training Task Force
Fundamental Goal/Objective

Develop a strategic approach to ensure we can provide the skilled, trained, educated workers needed to support the UAS Sector.
Current Resource Support

• Council of Governments Taskforce
• Texas UASWERX
  a. Training Academy
  b. Test Center
• TEA Grant
• State & Federal Agencies
• University Research
Premise

- Identify what we have to meet the need
- Identify what we need and don’t have
- Develop what we don’t have to meet the need
Working Groups Established

- Public Education
- Higher Education
- Workforce System
- Industry
Sequential Action Steps

Phase 1 - Identify what is currently available – from public education, higher education, the workforce system, and vendor community

Phase 2 - Identify & define the scope of skills, competencies & knowledge the industry will need in the foreseeable future

Phase 3 - Identify what we need but don’t have – certificates, certifications, courses, degrees, etc.

Phase 4 - Develop a plan to meet the demand
Informational Resources

Market Research
• Documenting current market research, relative to the UAS Sector.
• It will be made available for review in Google Documents.

We have 6 reports currently available:
• 11 Facts on UAS Industry
• NDIA: $98 Billion Expected for Military Drone Market
• Accenture: It’s Time for Flying Robots
• Goldman Sachs: Drones Flying into the Mainstream
• PwC: Drone Industry Clarity From Above
• ASTM International: The Promise of Urban Air Mobility
Next steps

A. Launch Working Groups – January 2020

B. Identify Available Resources – February 2020
   • Public Ed, Higher Ed, and Workforce Groups will identify the resources we have

C. Federal Research Assessed – February 2020

D. Industry Workgroup to identify Sector Needs – February 2020
2020
NCTX
Aerial Robotics Showcase

February 27, 2020
Wilkerson-Greines Activity Center
5201 C.A. Roberson Boulevard
Fort Worth, Texas 76119
9:30 - 12:00
Discussion
CONTACTS

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wesjurey@gmail.com

Daphne Rickard
817-814-1800
Daphne.Rickard@fwisd.org
ROOFFAX
Whats on your roof?

RoofFax For Tomorrow's Smart City

Alex Diaz | Mario Herrera
The RoofFax Story

“EVERY ONCE IN A WHILE, A NEW TECHNOLOGY, AN OLD PROBLEM AND A BIG IDEA TURN INTO AN INNOVATION”

- DEAM KAMEN
What Is Infrared Thermography?

- Infrared Thermography is the process of using a Thermal Imager to detect radiation (heat) coming from an object, converting it to temperature and displaying an image of the temperature distribution.

- It's widely-used in predictive maintenance and condition monitoring.
Impact On Tomorrow's Smart City

- Singapore is striving to be the world's first smart city.

- Emerging trends such as automation, AI, and the Internet of things (IoT) are driving smart city adoption.

- Smart cities integrate water resources, health systems, transportation, smart building technologies, energy, sanitation and waste collections, and security technologies and services.

- Smart cities will help people lead a safe and technologically advanced life. In the past few years cities have migrated from analog to digital.

- A smart city uses digital technologies to reduce cost and resource consumption, enhance performance and quality of services, and to engage more effectively with its citizens.
RoofFax
Contact Information
HB2340

- Recommendations need to be approved by TDEM leadership.
- Hurricane Harvey (Recover Texas)
- (1) Strategies for coordinating and promoting the use of unmanned aircraft among state agencies, local governments, and private entities in the response and recovery; and
- (2) Recommended changes to state law that would allow state agencies, local governments, and private entities to more effectively use unmanned aircraft in the response and recovery.
(1) Strategies for coordinating and promoting the use of unmanned aircraft among state agencies, local governments, and private entities in the response and recovery; and

• Provide a UAS program template to local jurisdictions.
• Statewide PSURT organized and equipped through the regions.
• Regional PSURT teams will evaluate local public safety pilots to be rostered for the State team.
• Pilot training, currency, and equipment will be tracked.
(2) recommended changes to state law that would allow state agencies, local governments, and private entities to more effectively use unmanned aircraft in the response and recovery.

• Chapter 423, USE OF UNMANNED AIRCRAFT
• Michael Hill
Questions
LS UAS was awarded the UAM GC Study!

- Task 1: Conduct a State-Wide UAS & UAM Use Case Market Study.
- Task 2: Develop CONOPS to support all 7 NASA UAM Test Scenarios and conduct a capability, tool & technology Gap Analysis for each scenario.
- Task 3: Compile all into a single requirements document.

**Study Stakeholders:** Office of the Governor, NCTCOG (UAS TF), Governor’s Connected and Autonomous Vehicles Task Force (CAVTF), Energy Drone & Robotics Coalition, Industry Partners, Who Else??.
UAM ConOps

Summary

- Hundreds of passenger-carrying UAM operations
- Primarily in areas where passenger demand is high and there is existing transportation infrastructure already in place
- Use high performance vehicles including Electric Vertical Take Off Landing (EVTOL)
- High levels of automation in vehicles and air traffic management.
The Promise of Urban Air Mobility

-Airport Shuttle and Air Taxi markets are viable markets with a significant total available market value of $500B at the market entry price points in the best-case unconstrained scenario.

-Significant legal/regulatory, certification, public perception, infrastructure, and weather constraints exist which reduce market potential in near term for UAM.

-After applying operational constraints/barriers, 0.5% of the total available market worth $2.5B can be captured in the near term.

-BAH UAM Market Study
  October 19, 2018
Today’s “Ask”

Request all interested UAS TF Members participate in the State-Wide Study via Use Case Survey* that will go live in the next 5-7 working days.

All input should be non-proprietary and releasable to the public domain. We have summarized 29 Use Case examples, which is not an all-inclusive list of potential capabilities. Any additional information and detail you can provide on these and other Use Cases will greatly enhance our efforts to inform State of Texas UAS and Urban Air Mobility Vision for the future.

1. Is your organization currently pursuing any of these UAS use cases? If so, which ones?
2. How soon do you require these Use Case capabilities to better accomplish your organization’s mission?
3. What are the barriers that you see for implementing the Use Cases that you require?
4. If your primary or projected Use Case is not listed, please insert where appropriate.


Note: All Use Cases are assumed to be Beyond Visual Line of Sight (BVLOS) and greatly enhanced by autonomy unless noted. Thank you for your support and we look forward to working with you and sharing the results of this survey once complete.

*Survey currently undergoing Institutional Review.
# Sample Survey Categories

## Energy (Oil & Gas and Commercial Utilities)

<table>
<thead>
<tr>
<th>Mission</th>
<th>Weight</th>
<th>Duration</th>
<th>Altitude</th>
<th>Use Case Context</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linear Asset Inspection</td>
<td>&gt;55lb</td>
<td>As required</td>
<td>&gt;400’ AGL</td>
<td>Heavy Payload Required-Change Detection-Asset Inventory and Inspection-Security Inspection</td>
</tr>
<tr>
<td>Linear Asset Inspection</td>
<td>&lt;55lb</td>
<td>As required</td>
<td>&lt;400’ AGL</td>
<td>Asset Integrity-Corrosion Inspection-Leak Detection</td>
</tr>
<tr>
<td>Fixed Asset Inspection</td>
<td>&lt;55lb</td>
<td>As required</td>
<td>400-600’</td>
<td>Tower and Bridge Inspection; Fixed Site Integrity; Spectrum Analysis</td>
</tr>
<tr>
<td>Off-Shore Cargo Delivery</td>
<td>&gt;55lb</td>
<td>~1-n Hours</td>
<td>&lt;400’ AGL</td>
<td>Priority Repair Part &amp; Cargo Transit; Shore-to-Rig, Rig-to-Rig, Ship-to-Rig</td>
</tr>
</tbody>
</table>

## Public Utilities & Transportation Infrastructure

<table>
<thead>
<tr>
<th>Mission</th>
<th>Weight</th>
<th>Duration</th>
<th>Altitude</th>
<th>Use Case Context</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Utility Inspection</td>
<td>&lt;55lb</td>
<td>1-3 Hours</td>
<td>&lt;400’ AGL</td>
<td>Swarm-Single Control, Integrity-Corrosion</td>
</tr>
<tr>
<td>Transportation Infrastructure</td>
<td>&lt;55lb</td>
<td>1-3 Hour</td>
<td>&lt;400’ AGL</td>
<td>Bridges, Hi-Ways, Integrity-Corrosion</td>
</tr>
<tr>
<td>Transportation Infrastructure</td>
<td>&gt;55lb</td>
<td>1-3 Hour</td>
<td>&lt;400’ AGL</td>
<td>Pavement Forensics</td>
</tr>
<tr>
<td>Port Infrastructure</td>
<td>&lt;55lb</td>
<td>1-3 Hour</td>
<td>&lt;400’ AGL</td>
<td>Cranes-Docks-Locks &amp; Buoys Integrity</td>
</tr>
</tbody>
</table>
## Sample Survey Categories

### Commercial Mobility-Lift as a Service

<table>
<thead>
<tr>
<th>Mission</th>
<th>Weight</th>
<th>Duration</th>
<th>Altitude</th>
<th>Use Case Context</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Mile Package Delivery</td>
<td>&lt;55lb</td>
<td>~1 Hour</td>
<td>&lt;400’ AGL</td>
<td>Medical &amp; Other Supplies</td>
</tr>
<tr>
<td>Last Mile Package Delivery</td>
<td>&lt;55lb</td>
<td>~1 Hour</td>
<td>&lt;400’ AGL</td>
<td>Retail Package Delivery</td>
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<tr>
<td>Last Mile Cargo Delivery</td>
<td>&gt;55lb</td>
<td>~1 Hour</td>
<td>&lt;400’ AGL</td>
<td>On-Shore Cargo Transit</td>
</tr>
<tr>
<td>Off-Shore Cargo Delivery</td>
<td>&gt;55lb</td>
<td>1-n Hours</td>
<td>&lt;400’ AGL</td>
<td>Off-Shore Cargo Transit</td>
</tr>
<tr>
<td>Urban Air Passenger Mobility</td>
<td>&gt;55lb</td>
<td>~1 Hour</td>
<td>&gt;400’ AGL</td>
<td>Passenger Transit</td>
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<tr>
<td>Urban Air Ambulance Mobility</td>
<td>&gt;55lb</td>
<td>~1 Hour</td>
<td>&gt;400’ AGL</td>
<td>MEDEVAC Transit</td>
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<tr>
<td>Urban Air Cargo Mobility</td>
<td>&gt;55lb</td>
<td>1-n Hours</td>
<td>&gt;400’ AGL</td>
<td>Logistics-Cargo Transit (LOS)</td>
</tr>
</tbody>
</table>

### Additional Use Case Categories:
- Science & High Altitude Research (1)
- Public Safety & Disaster Response (6)
- Agriculture-Forestry-Wildlife & Land Management (7)
The LSUASC is Actively Working With NASA to Bring Urban Air Mobility Testing to Texas
Way Ahead

• Will notify Ernest Huffman when the Survey is Live and provide the link.

• Task 1 (Market Survey) status during the February UAS TF meeting.

• Task 2 & 3 (CONOPS-Gap Analysis) update during the February UAS TF Meeting.

• Contact me at joe.henry@tamucc.edu if you have any questions.
Know Before You Fly Your Drone

January 28, 2020

North Texas UAS Safety and Integration Task Force presents
SPONSORS

- AU VSI LONE STAR
- DRONES Plus
- FoxFury Lighting Solutions
- Women AND DRONES
- LENS PEN
- UAS Plus Services
- ELM Aerial Services
- Chariot
Adrian Doko - President, AUVSI Lone Star
SPEAKERS

Sharon Rossmark – CEO, Women and Drones

Flying Robots over Texas
SPEAKERS

Evans Merelli – Owner / Operator at ELM Aerial Services
# Survey Results

## Attendance:
- 49 registered on Eventbrite.
- 4-woman
- 45-men

## Attendee’s county
- Dallas-5
- Tarrant-20
- Collin-1
- Denton-3
- Rockwall-1
- Grayson-1
- Lavaca-1

## Where did they hear about the event:
- 6-social media
- 8-word of mouth
- 6-NCTCOG
- 3=Workforce Commission
- 3-NorthTX Drone Group
- 4-AUVSI
- 5-FTW City News
- 1-google search
- 2-College Poster
- 10-no comment
- 1-AD
Survey Results

What was their primary reason for attending?
- 11-Recreational
- 14-Professional
- 0-Student:
- 3-Other:
- 21-No Comment

Was the workshop of value:
- 28-yes
- 0-no
- 21-no comment

Would you recommend this workshop?
- 28-yes
- 0-no
- 21-no comment

Attendee’s Suggested Locations
- 1. Lewisville
- 2. Flower Mound
- 3. Location was good
Attendee’s Comments
1. Very Well Done!
2. more time for lunch & defined time for lunch.
3. reach out to libraries, local flying clubs, schools, hobby shops, local colleges.
4. Exceptional workshop!
5. keep up the good work!
6. Liked the meeting!
7. Workshop geared towards "newbies "Liked this one!
8. Post presenter’s slides on website to download.
9. Background Noise from Venders were distracting. Put tables in hallway or separate.
10. Thank You for Workshop.
11. A location were presenters can fly/demonstrate
12. Best part was the FAA Speaker.
13. Women & Drones is a good idea, but the presentation is all over the place and needs to be focused on synchronizing the fields/ideas into less pages.
14. I enjoyed meeting with the diverse group of drone minded people just keep up to date on what is going on in the community.
15. I would like to potentially find an easier way to find safe places in local cities to fly for recreational. It’s hard to find info in general from local cities themselves.
16. I am an AMA member but would like non club fields to fly for recreation.
17. More real-life examples vs hypothetical examples
18. Lunch should have been explained.
19. Vendors and Sponsors in back need to be out in the hall or quiet.
21. Local Club representation.
Attendee’s Suggested Topics
1. Commercial fields: cinematography, photography, real estate
2. Education/stem
3. Mapping, surveying
4. Types of drones
5. Demonstration of varies tools
6. More on Rules and Regulations
7. More specialized sessions for aerial photography, 107 prep, FPV, Fixed wing. Since many people that participate don’t have interest in any others.
8. Recreational/Hobbyist Flying
9. Photography
10. Educational Programs
12. I think information regarding what is next after you get your 107 license for brand new pilots. Resources such as potential jobs, in depth discussions on new laws or proposed laws that will affect the industry.
13. Flight Stanard District Office
14. More Specialized Info for each workshop.
15. “Pilots in the Field” Speakers
Proposed Next Location and Topic Ideas

Location
March 28th, Dallas County Community College
May 30th, University of Texas at Arlington
July 25 or Aug 1st,

Topic
Mapping/surveying for city planners
Educational programs
101 on how to make a career after the 107
Panel of Drone Club representatives.
Topic Specialized Workshops
Demonstration with the drone and safety procedures.
Al Brunner suggested to have a Waiver and Airspace step by step demonstration.
FAA webinar “Where is my waiver”
“Night Waiver”. Demonstrate how to use Airmap and LAANC
North Texas UAS Safety and Integration Task Force presents

Know Before You Fly Your Drone

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THANK YOU!