

Agile Curriculum Program

for
Aviation, Aerospace, and Defense Manufacturing

“Training a skilled workforce to meet tomorrow’s rapidly changing needs”



Presented to
UAS Taskforce

March 28, 2023

Office of Local Defense Community Cooperation (OLDCC)



- \$1 Million Grant Industry Resiliency Program Grant
- Create an Agile Curriculum Program for Aerospace and Defense Manufacturing that meets the industry's needs
- Drive the appropriate degree, certificate, or internship programs within existing educational institutions and industry partners
- Expedite more workers with job-ready skills needed in the industries; and deliver the training programs to upskill and reskill employees and new hires

Agile Curriculum Program for Aviation Aerospace and Defense Manufacturing

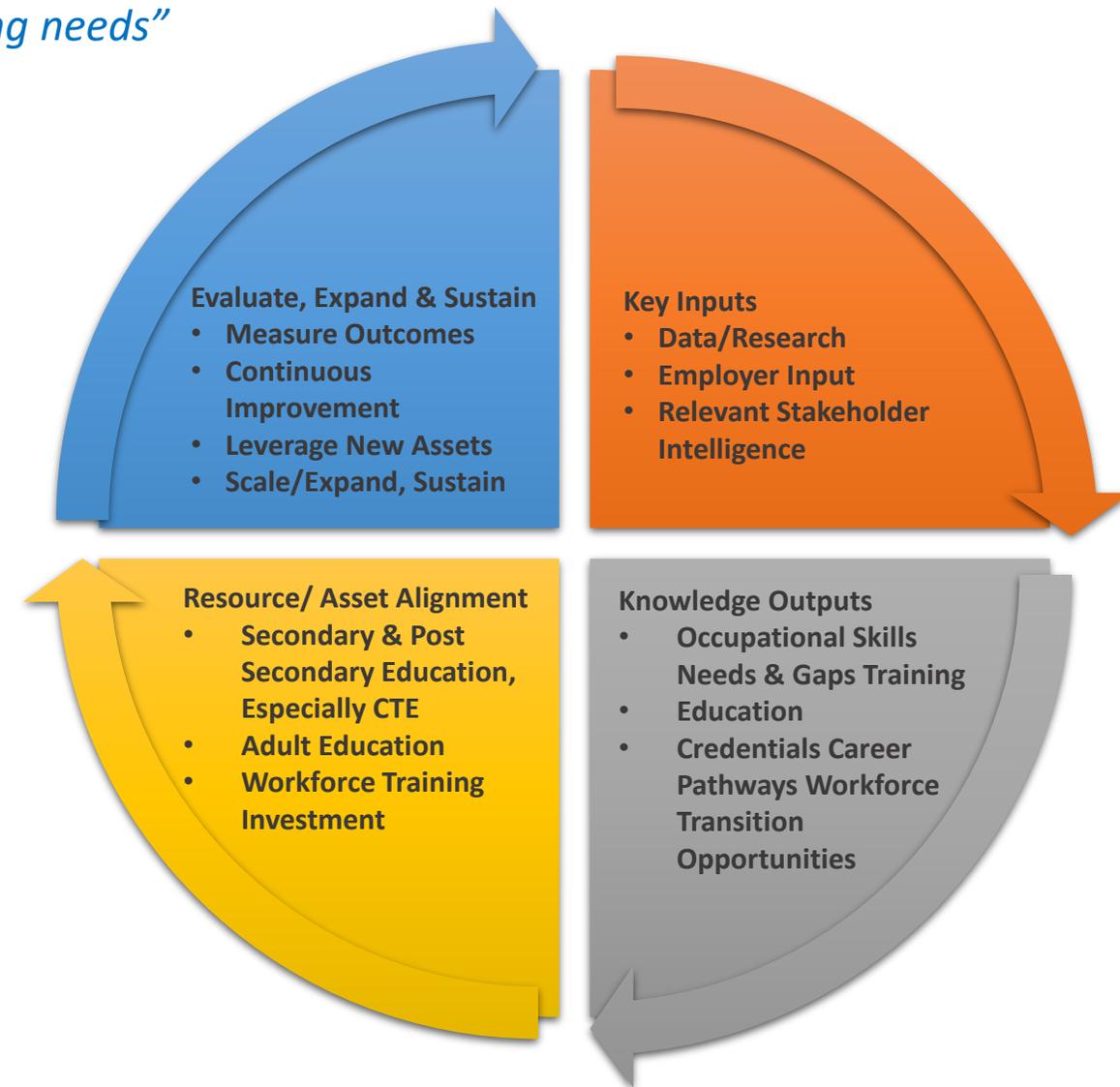
“Training a skilled workforce to meet tomorrow’s rapidly changing needs”

Agile Curriculum Program

A sustainable curriculum program founded on communication and relationship-building of, by and for the stakeholders

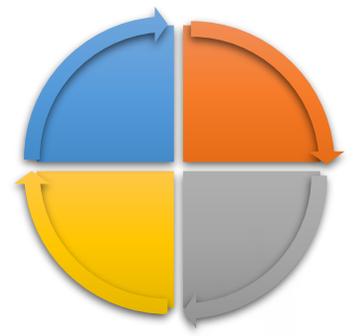
Develop appropriate degrees, certificates, and internship programs within educational institutions and industry that will expedite the availability of a highly skilled job ready workforce

Deliver training opportunities to upskill the current workforce to meet the ever-changing technology needs of the aviation, aerospace and defense industries



Agile Curriculum Program Committee

“Training a skilled workforce to meet tomorrow’s rapidly changing needs”



Organizations

NCTCOG

Workforce Solutions for Tarrant County

Workforce Solutions for Greater Dallas

Workforce Solutions for North Central Texas

North Texas Center for Mobility Technologies

Colleges & Universities

Dallas College

Tarrant County College

Texas A&M University

University of Texas at Arlington

Aviation, Aerospace, & Defense Industries

Bell

CAE

Elbit Systems of North America

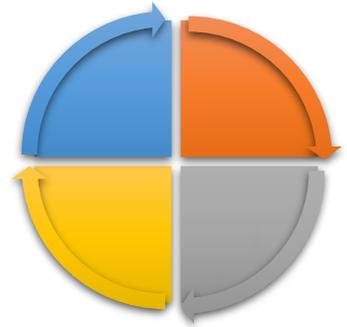
Lockheed Martin

Raytheon Technologies

NPower

Agile Curriculum Program Framework

“Training a skilled workforce to meet tomorrow’s rapidly changing needs”

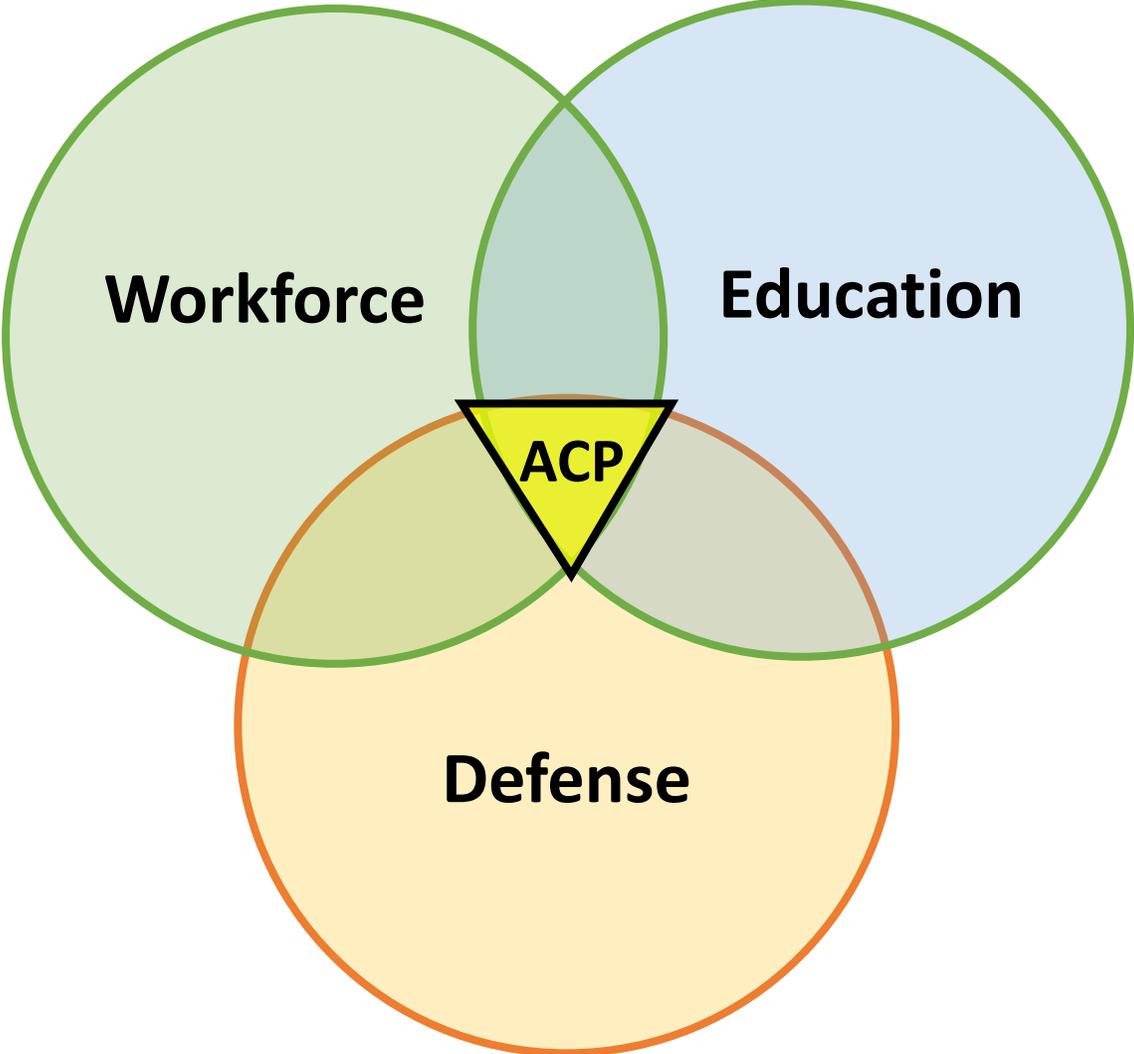


DFW Regional Aerospace Consortium

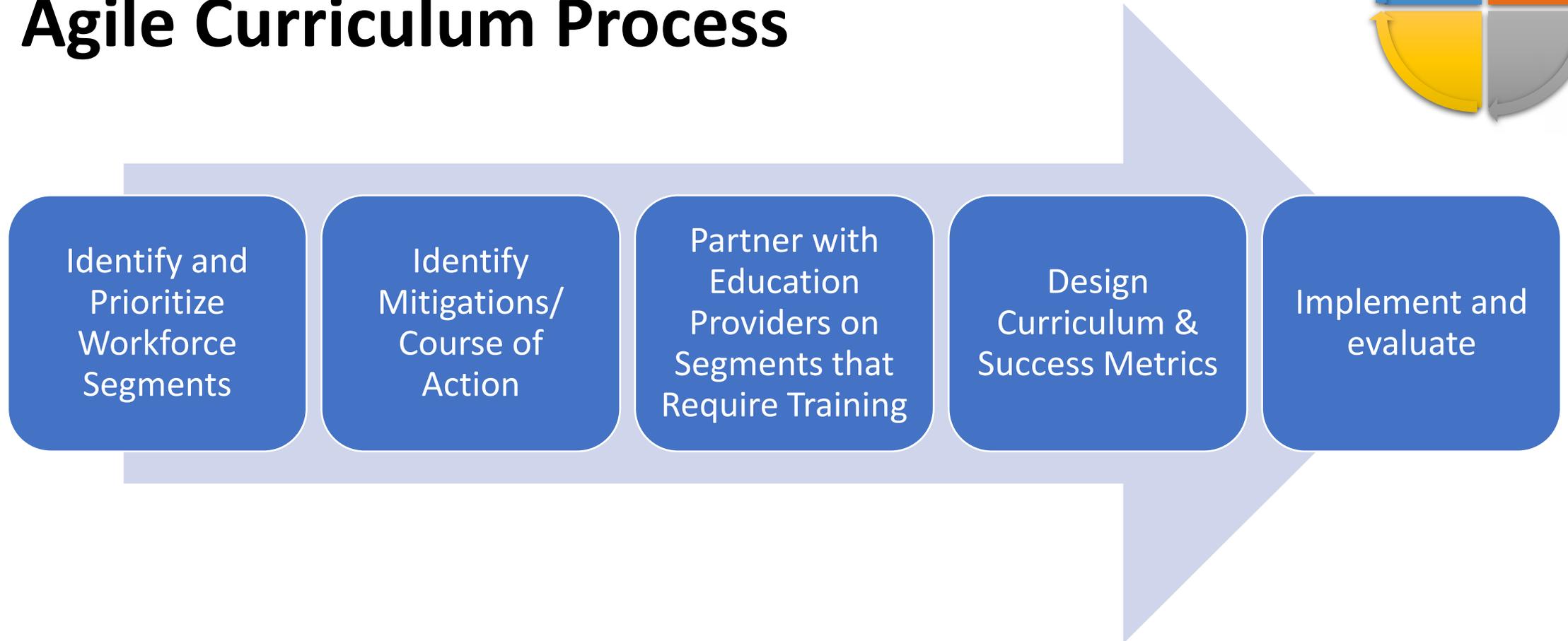
Agile Curriculum Program Committee

Agile Curriculum Design Teams

Agile Curriculum Program



Agile Curriculum Process



Identify and
Prioritize
Workforce
Segments

Identify
Mitigations/
Course of
Action

Partner with
Education
Providers on
Segments that
Require Training

Design
Curriculum &
Success Metrics

Implement and
evaluate

DFW Aerospace Consortium

Agile Curriculum Program Committee

Agile Curriculum Design Teams

Agile Curriculum Implementation Steps

1st Step Completed



Identify and prioritize workforce/talent segments to develop

- Using EMSI, update 2017 study on A&D workforce trends
- Set criteria to evaluate and prioritize the segments
- Create a template to document findings on each talent segment
- Train EMSI users on criteria and create a common frame-of-reference for evaluating the talent segments
- Review the results and prioritize the talent segments that need to be developed
- Select the talent segments that will be the focus

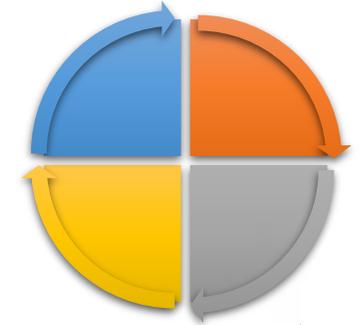
Create workforce development plan and identify education partners

- Determine the workforce development actions for each selected talent segment
- Identify the subset of companies that will most benefit
- For those segments that will be developed in or whole using training (as opposed to sourcing, retention, or compensation, etc.), identify the education institutions from which partner
- For the training portion, identify existing curriculum, alignment to current and future industry practices based on feedback from selected companies
- Update using agile curriculum development

Implement, evaluate, revise, and expand

- Pilot the training and business outcomes
- Revise agile curriculum development process and the training curriculum
- Re-implement and measure business outcomes again
- Apply methodology to next set of prioritized talent segments

Agile Curriculum Implementation Steps



Identify and prioritize workforce/talent segments to develop

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Agile Curriculum Development Program Outcomes



Results and Benefits

- Creation of industry specific degree, certificate and internship programs
- Enhanced collaboration between aerospace defense industry, educational institutions, and work force organizations
- Expedited upskilling and retraining of the current workforce
- A greater availability of well-trained and highly qualified applicants

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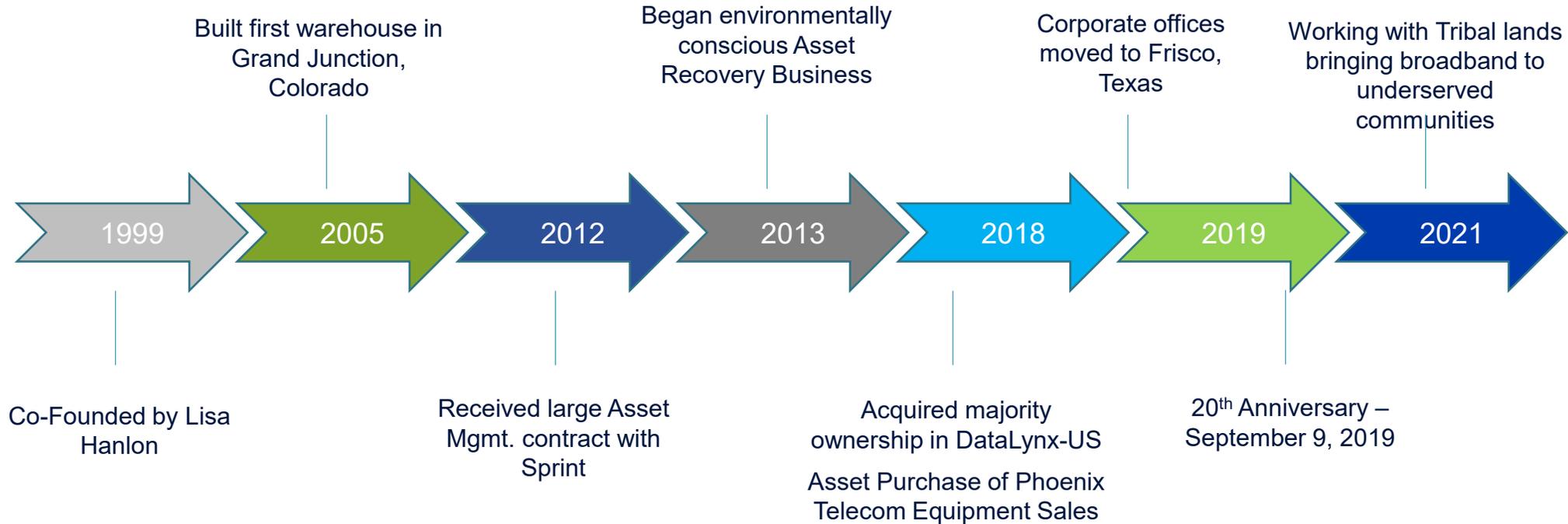
XTD-120

Tethered Drone Solution

March 28, 2023

Fraser Pajak Board Advisor

Teltech History: 25 years old next year!



Diversity and Certifications

Teltech Group is a Native American/Woman-owned Business

- WBENC (National Women's Business Enterprise Certification)
- WOSB (Woman Owned Small Business)
- NABA (Native American Business Association)
- NMSDC (National Minority Supplier Development Council Certification)
- SBE (Small Business Enterprise – DFW Minority Council Certification)
- HUB (Texas Historically Underutilized Business Certification)
- CPUC (California Women/Minority Business Enterprise (WMBE))

Quality, Environmental, Health & Safety

- ISO 14001 – Environmental Management System Certification
- ISO 45001 – Occupational Health & Safety Management System Certification
- ISO 9001/TL 9000 R6.2/R5.7 – ICT Quality Management System Certification



Teltech Group's Portfolio



3PL Forward & Reverse
Logistics/ Supply Chain Solutions



Talent
Resourcing



Asset
Management



Technology
Solutions



Equipment
Sales



Network Deployment
Solutions

Teltech, always looking for creative new uses of existing technology

What do you do when you have:

- Thousands of cabinets?
- Thousands of surplus batteries?

You invent an autonomous power solution!

So why drones and why now?
To create a "COW" (Cell on Wings)



Teltech XTD-120 Tethered Drone

More than 5 years ago, Teltech developed a tethered drone solution for disaster recovery operations

The concept:

- Continuous flight (powered by the tether) *
- High lift capacity for Cellular and other payloads
- Fiber and power connectivity to the payload



(* With momentary inspections every 12 hours)

Teltech Tethered Drone evolution

First generation TAS 400:



Built on a standard high lift drone

Modified to fly from tether power and connectivity

Many successful missions in hurricane recovery

Second / Third generation XTD 120:



Custom built carbon fiber airframe by XM2

Fully integrated power system

Teltech designed tether with power and 6 fibers

In full deployment, 20+ units delivered!!

NATE Expo 2022 press release

Teltech's XT-120 Tethered Drone Solution to Conduct LIVE Simulation of 2020 Hurricane Laura Response at NATE UAS Expo



FRISCO, TEXAS (June 27, 2022) Teltech Group, a nationally recognized logistics/supply chain services and asset management company with expertise in technology solutions, is conducting live demonstrations to showcase the unique capabilities of its 2nd generation XTD-120 Tethered Drone Solution at the NATE UAS Expo June 27 and 28 in Valley, Nebraska. The XTD-120 is designed specifically to provide wireless connectivity in crisis situations. The demonstration re-creates how Teltech's solution was used by Verizon Wireless in Louisiana, August 2020, after Hurricane Laura. Teltech will be flying the same type of cellular equipment used during the catastrophe.

"The force of Hurricane Laura impacted wireless communications services in the disaster area," said Lisa Hanlon-Knight CEO of Teltech Group. "Verizon's Response Team used our Tethered Drone solution because of its ability to carry the cell equipment at a high altitude for significant periods of time."

Teltech Group's XTD-120 Drone System is designed to carry a large payload for extended flight times with telecommunications and other applications like crisis intervention, dangerous industrial tasks, data collection in remote areas, or even offering patrons connectivity at an outdoor event. The systems are customizable and minimize interference and the threat of data theft, or command or control hacking. The XT-120 Tethered Drone has transformed disaster relief providing:

- Rapid deployment – reliable fly by fiber flight control – up to 500' (150m) above ground
- Multiple payload options (e.g.: eFemto, small cell, surveillance gear) and 22 pounds of payload capacity



Teltech XTD-120 Tethered Drone details

Drone and power system manufactured in Australia by XM2 engineers

Tether custom-made in the USA

- Military Spec copper conductors to transmit power to the drone and payload
- Single mode fiber connectivity for the drone and payload
- Ruggedized fiber connections
- Braided Kevlar, strain relief cable through entire tether
- Tether sheathed in reflective and abrasion resistant material



Teltech XTD-120 Payload integration

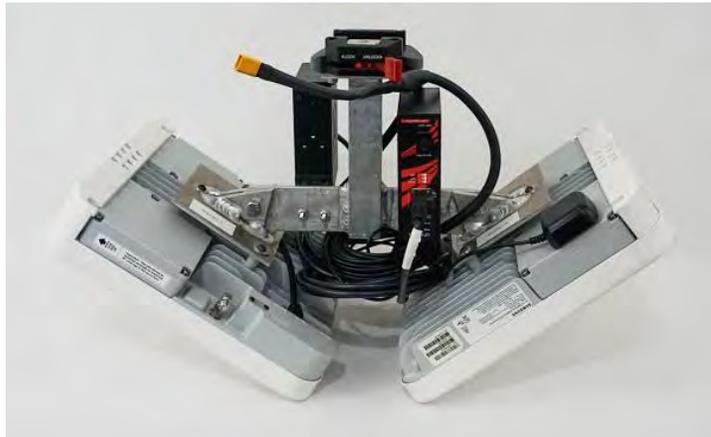
Custom airframe and power system:

On board payload power options:

5 volt, 12 volt and 48 volt DC power for payloads

Payload capacity of at least 10KG (22 lbs)

Virtually unlimited data capacity (5 single mode fibers for payload, one for flight control)



This configuration used in Hurricane IAN (Sanibel Island) , Hurricane Laura and others

Teltech designed payload option for dual Samsung eFemto radios – simple dovetail mount

Fiber to Ethernet conversions and 48 volt power injection

Sleek simple and ease of deployment

Virtually unlimited data capacity (5 single more fibers for payload, one for flight control)

Teltech XTD-120 Power systems

Extended flight times are possible by Ground Power Unit via the tether cable

- Requires ground power or an appropriately sized generator
- Converts 240VAC from ground power to high voltage through the tether
- Air Power Unit on drone converts transmission voltage back down to 50VDC to power drone and payload systems.
- Facilitates Fly-By-Wire Communication for Drone and Ground Control System



Custom engineered and certified ground power unit

Air side power unit integrated into the drone airframe

Teltech XTD-120 Tethered Drone Use Cases



Applications include:

- Remote Telecommunications Service
- Videography
- Intelligence, surveillance, and reconnaissance (ISR)
- Event Management and Security
- Temporary Cell over Wings Network Expansion

Use cases and payload options are limited only by your imagination!



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AEROX

VENTURES

INVESTING IN THE TRANSFORMATION OF **AEROSPACE & DEFENSE**

STRICTLY CONFIDENTIAL

LIMITED PARTNER INTRODUCTION

Minority-Owned Venture Capital Firm



2023

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An investment in the Fund involves a high degree of risk, including risk related to the use of leverage, and is speculative as described in detail in the Investment Documents. The performance of the Fund and its assets may be volatile. An investor may lose all or a significant amount of its investment in the Fund. The Interests will be illiquid. It is anticipated that there will be no secondary market for the Interests in the Fund. Further, Interests in the Fund will be subject to legal and contractual restrictions on transfer. Investment in the Fund is suitable only for sophisticated investors and requires the financial ability and willingness to accept the high risk and lack of liquidity inherent in the investment. This Presentation does not constitute investment, legal or tax advice to any prospective investor. Prospective investors are advised to consult with their own legal, accounting, tax and other advisors regarding the consequences to them of acquiring and owning Interests in the Fund.

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AEROX

VENTURES

We are a **SPECIALIZED EARLY-STAGE VENTURE FIRM**
investing in innovative technologies that are transforming
AEROSPACE & DEFENSE (A&D)



We are **experienced investors** focused on A&D **sub-markets with increased technology demand, competition, and M&A** to generate **competitive venture investment returns**



We have **300+ years of combined experience** within A&D and have **competitive knowledge** within each sub-market focus to support **optimal investment selection**



Our combined **social & intellectual capital** will provide our firm with **competitive access to deal flow & accelerated growth for each portfolio company**



L. DAVID MOUNTS
| SENIOR PARTNER



MICHAEL BAUGHAN
| SENIOR PARTNER



KYLE MOUNTS
| PARTNER



BASIL YAP
| PARTNER



AARON ISHIKAWA
| PARTNER

EXPERTISE

- Technology Enabled Services
- Freight & Logistics
- Finance, M&A, PE & VC

- Private Equity
- Aerospace Manufacturing
- Executive Leadership & Strategy

- Early Stage Venture Investment Strategy & Portfolio Management
- Corporate Financial Strategy
- Early Stage Venture Operations

- UAS (Drone) FAA Regulation
- Commercial Drone Operations
- AAM Infrastructure & Investment

- Tech Acquisition & Strategy
- Venture Capital
- DoD R&D Grants & Procurement

INVESTMENTS

35+ Years Experience
100+ Direct / Co-Investments
8 PE / VC Funds

35+ Years Experience
10+ Direct / Co-Investments
3 PE / VC Funds

8 Years Experience
5+ Direct / Co-Investments
3 PE / VC Funds

1 Year Experience
1 Direct / Co-Investment

7 Years Experience
5+ Direct / Co-Investments
4 PE / VC Funds

OPERATIONAL QUALIFICATIONS

35+ Years, Investment & Corporate Finance (**35Yrs**), F&L (**30Yrs**), New Markets (**30Yrs**), Technology Acquisition & Strategy (**30Yrs**), Deal Negotiations (**30Yrs**), Public & Private Financial Markets (**25Yrs**), Entrepreneurial Mentorship (**20Yrs**), Aviation (**30Yrs**)

35+ Years, Investment & Corporate Finance (**35Yrs**), Aviation Supply Chain & Manufacturing (**25Yrs**), Aviation Components (**25Yrs**), Technology Acquisition & Strategy (**20Yrs**), Deal Negotiations (**25Yrs**), Public & Private Financial Markets (**20Yrs**), Aviation (**30Yrs**)

15+ Years, Investment & Credit Underwriting (**11Yrs**), Portfolio Management (**6Yrs**), Sales Pipeline Management (**15Yrs**), Venture Deal Negotiation (**5Yrs**), Venture Operational Leadership (**4Yrs**), Risk Underwriting (**10Yrs**), Aviation (**5Yrs**)

15+ Years, Aviation Infrastructure Design/Build/Investment (**12Yrs**), UAS Regulatory & Certification (**8Yrs**), Consulting (**7Yrs**), UAS Product Evaluation (**8Yrs**), UTM Design & Investment (**6Yrs**), Retail & Medical Drone Delivery (**4Yrs**), Aviation (**12Yrs**)

15+ Years, Aviation Infrastructure Design/Build/Investment (**12Yrs**), UAS Regulatory & Certification (**8Yrs**), Consulting (**7Yrs**), UAS Product Evaluation (**8Yrs**), UTM Design & Investment (**6Yrs**), Retail & Medical Drone Delivery (**4Yrs**), Aviation (**10Yrs**)

M&A | EXITS

100+ M&A, **5** Exits, **2** IPOs

20+ M&A, **3** Exits

1 M&A, **2** Exits

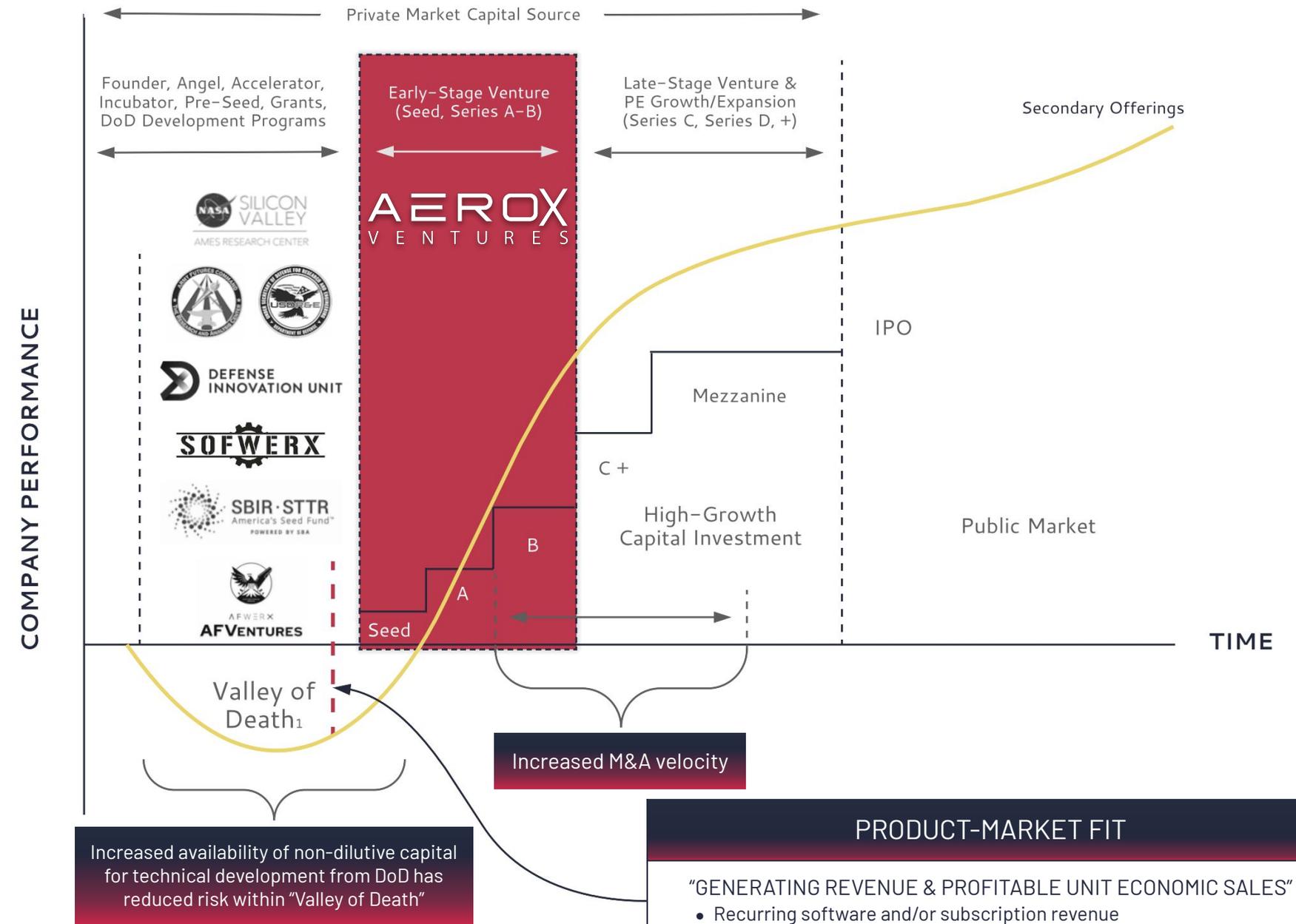
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5 M&A

EDUCATION



Increased capital resources within Defense for technical development **AND increased M&A volume** with Defense prime contractors have **INCREASED DEMAND FOR EARLY-STAGE VENTURE INVESTMENT**



1 - "Valley of Death" is a term referring to the place where innovative technologies funded by the DoD fail to make it into warfighters' hands because they can't make the transition from prototype to a real product due to lack of capital resources, visibility, and incentives before reaching full scale production.

- PRODUCT-MARKET FIT**
- "GENERATING REVENUE & PROFITABLE UNIT ECONOMIC SALES"
- Recurring software and/or subscription revenue
 - Recurring equipment sales
 - DoD procurement contract award
 - Air Force TACFI / STRATFI award
 - Final stage of successful Phase II SBIR/STTR award w/ strong pipeline

HOW WE ADD **VALUE** TO EACH PORTFOLIO COMPANY



CONNECTORS

Access new customers & strategic partnerships within our broad and deep network



OPERATIONAL GUIDANCE

Navigate next phase of growth, develop/test KPIs, and talent acquisition support



ACCELERATE ACCESS

Streamline access to government funding resources



FINANCIAL STRATEGY EXPERTISE

Optimize capital efficiency, follow-on valuation, and protect founder equity



UAS & AAM REGULATORY & CERTIFICATION GUIDANCE

Unique insights from industry experts



EXECUTIVE MENTORSHIP

1-1 sessions with top industry leaders and world class operators

“Partnering with the AXV team has immediately impacted our sales pipeline. They’ve given us unprecedented access to key decision makers with top tier customers.”

- Brian Stroom, CEO, Vermeer



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HEAD OFFICE Winston-Salem, NC

Advanced Air Mobility (AAM) – The focus of Compliance and Cyber Risks

Regine Bonneau

Founder/CEO

March 28, 2023



By 2030, the AAM/UAM industry will achieve a \$6.5 Billion plus evaluation in the United States.

The US Government has instructed the FAA to identify and place cybersecurity regulation on this key critical infrastructure.

Example: An attack on UAM infrastructure, such as the communications links or navigation data, could have devastating consequences that endanger UAM passengers and potentially result in the loss of lives. Such an incident in the early stages of UAM would demoralize the public's confidence and could disrupt the sector's viability altogether. (*Aerospace America*)



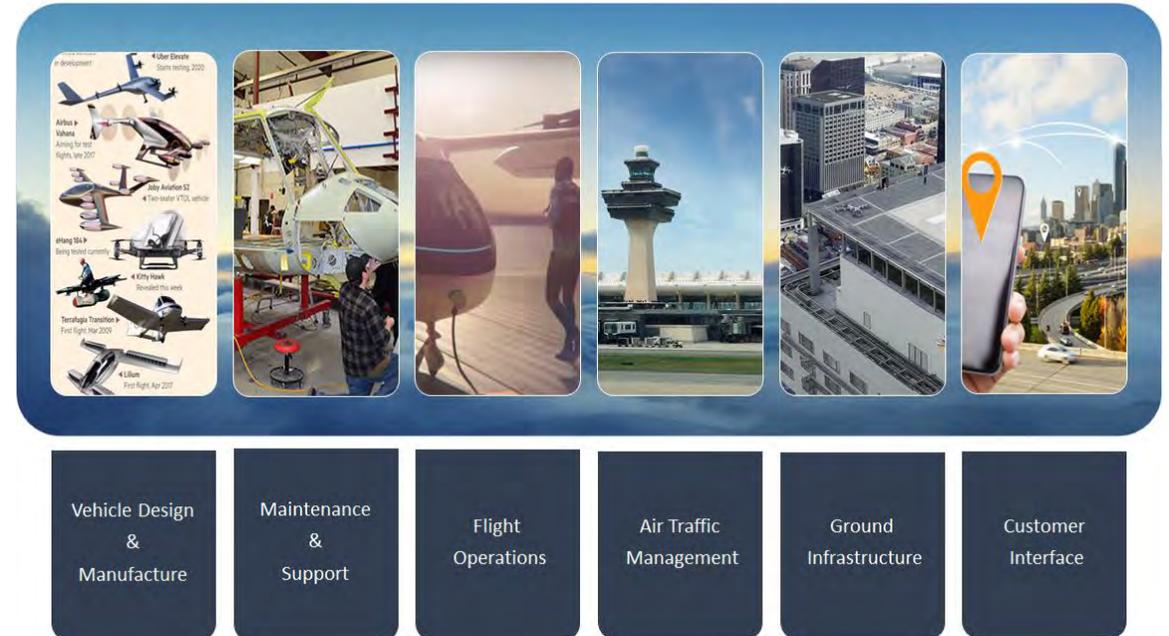
The Case for Cybersecurity

Cybersecurity is a key priority for manufacturers due to systems facing the same threats as all aerial platforms along with a range of unique challenges.

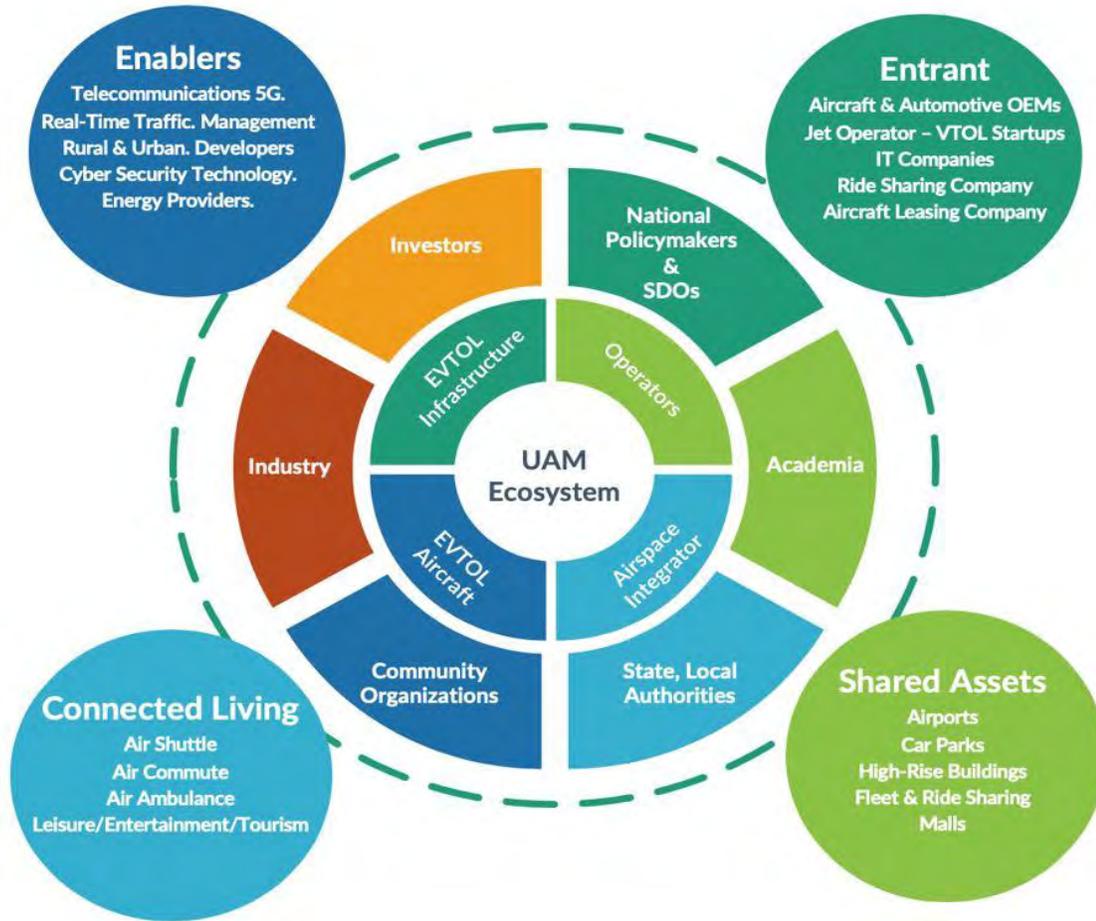
Cybersecurity IS one of the biggest technical challenges facing UAS/UAM and eVTOL developers. Cyber threat is not limited to a particular part of the platform, it includes:

- Navigation (GPS)
- Communication
- Vital Systems
- Software and Programs
- All parts and systems

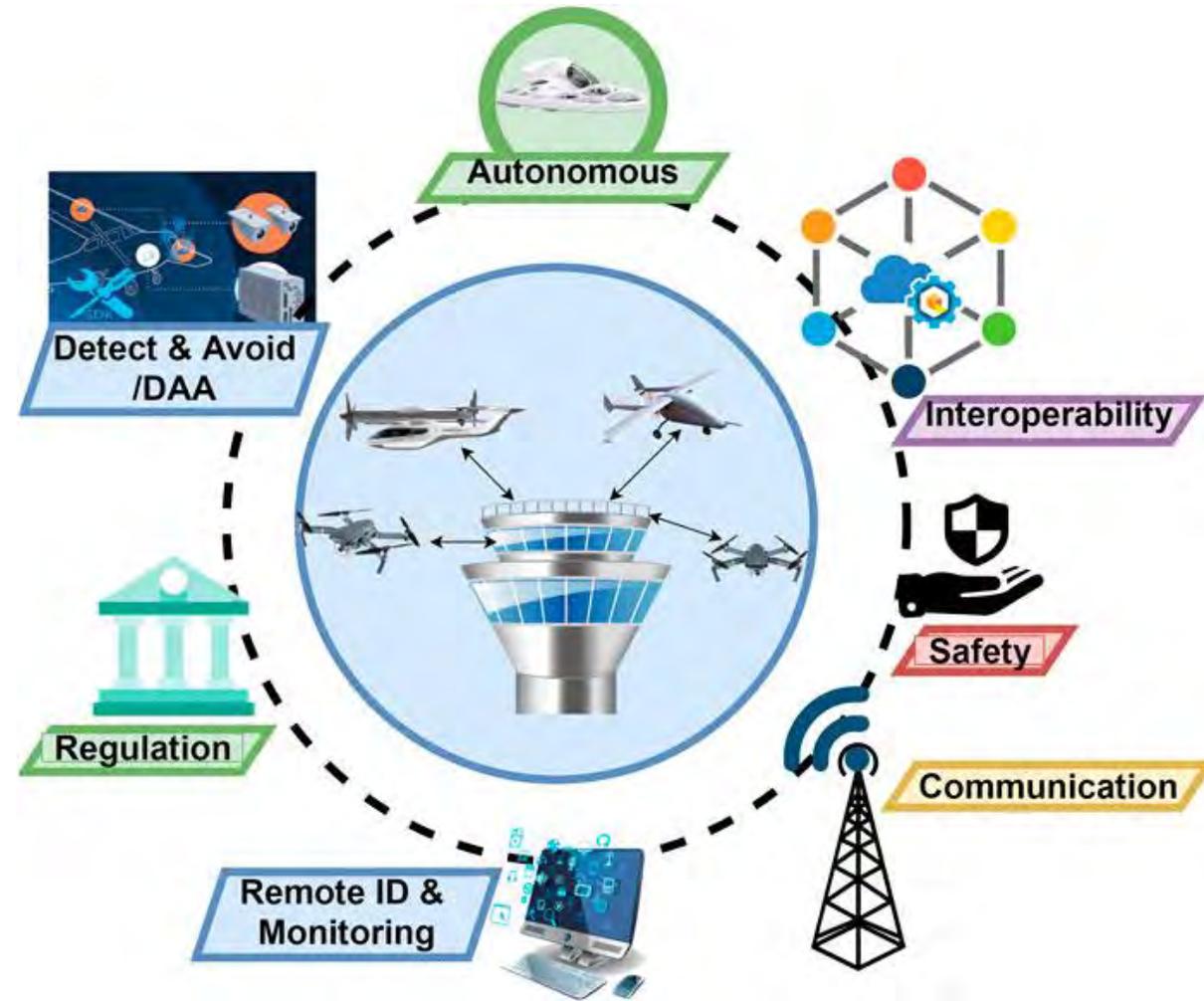
Cybersecurity is importance to urban air mobility (UAM) due to operators continued increase reliability on electronic control systems on the ground and in the air.



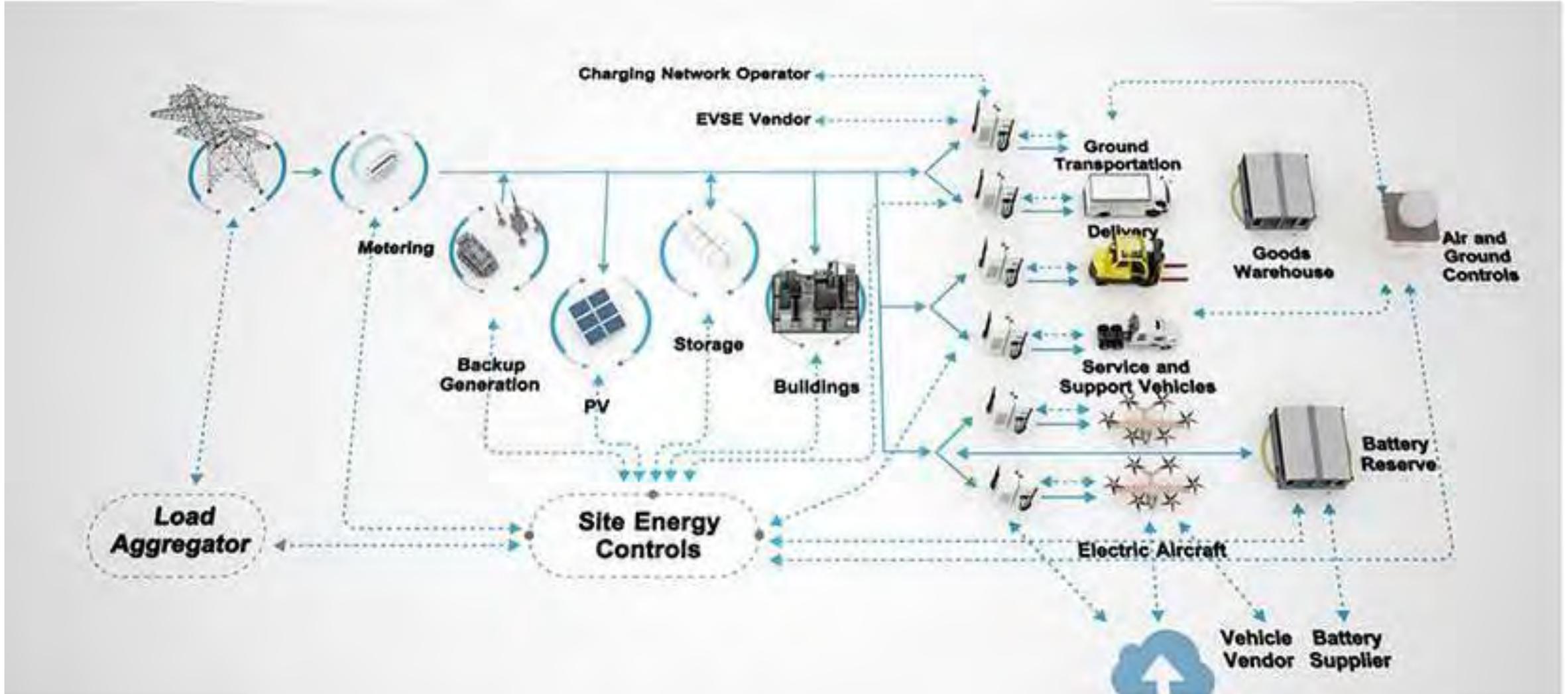
Ecosystem & Operations Concept



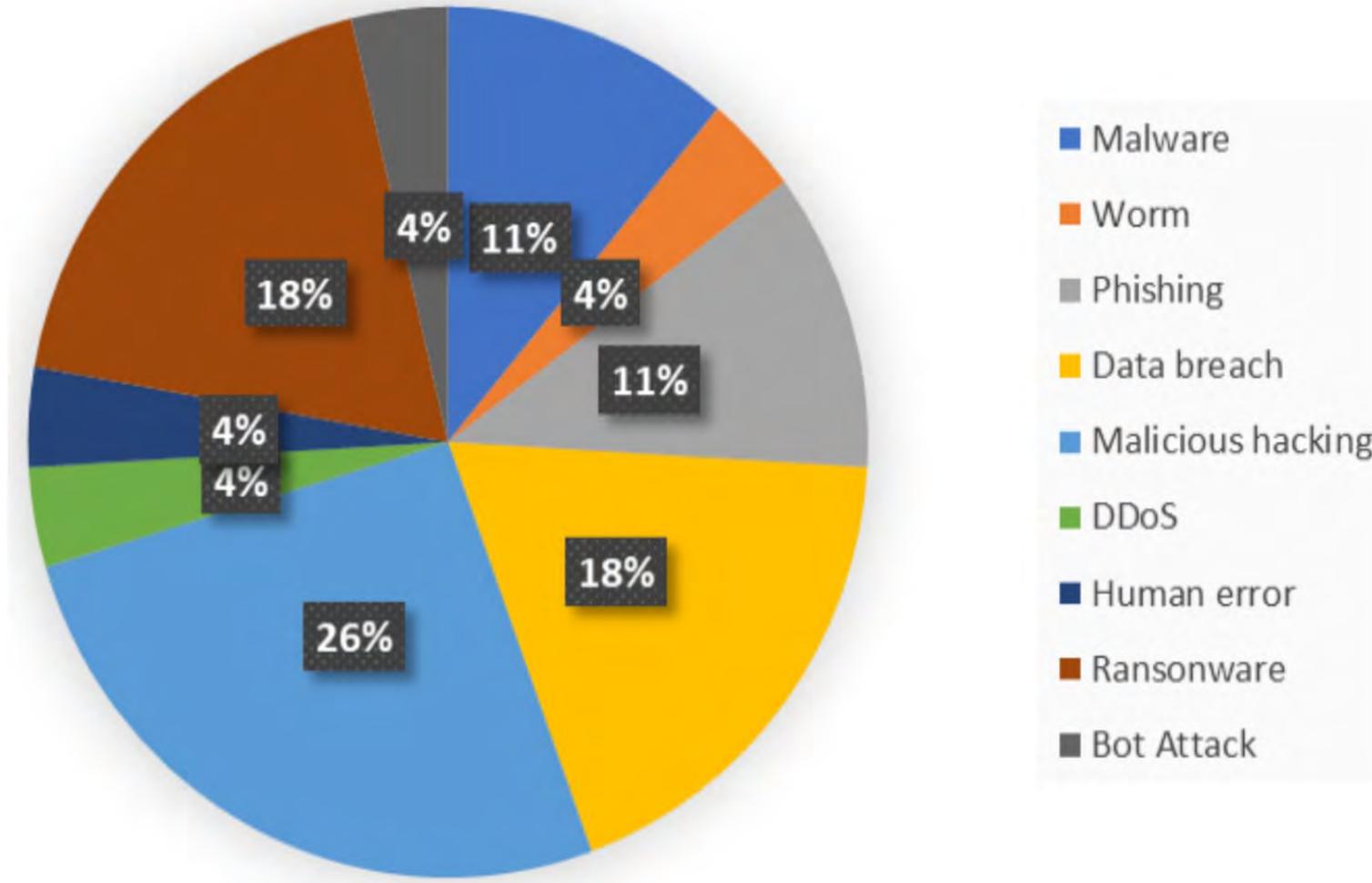
Source: Mo. Ashmawy



The Complexity of Electric Aviation

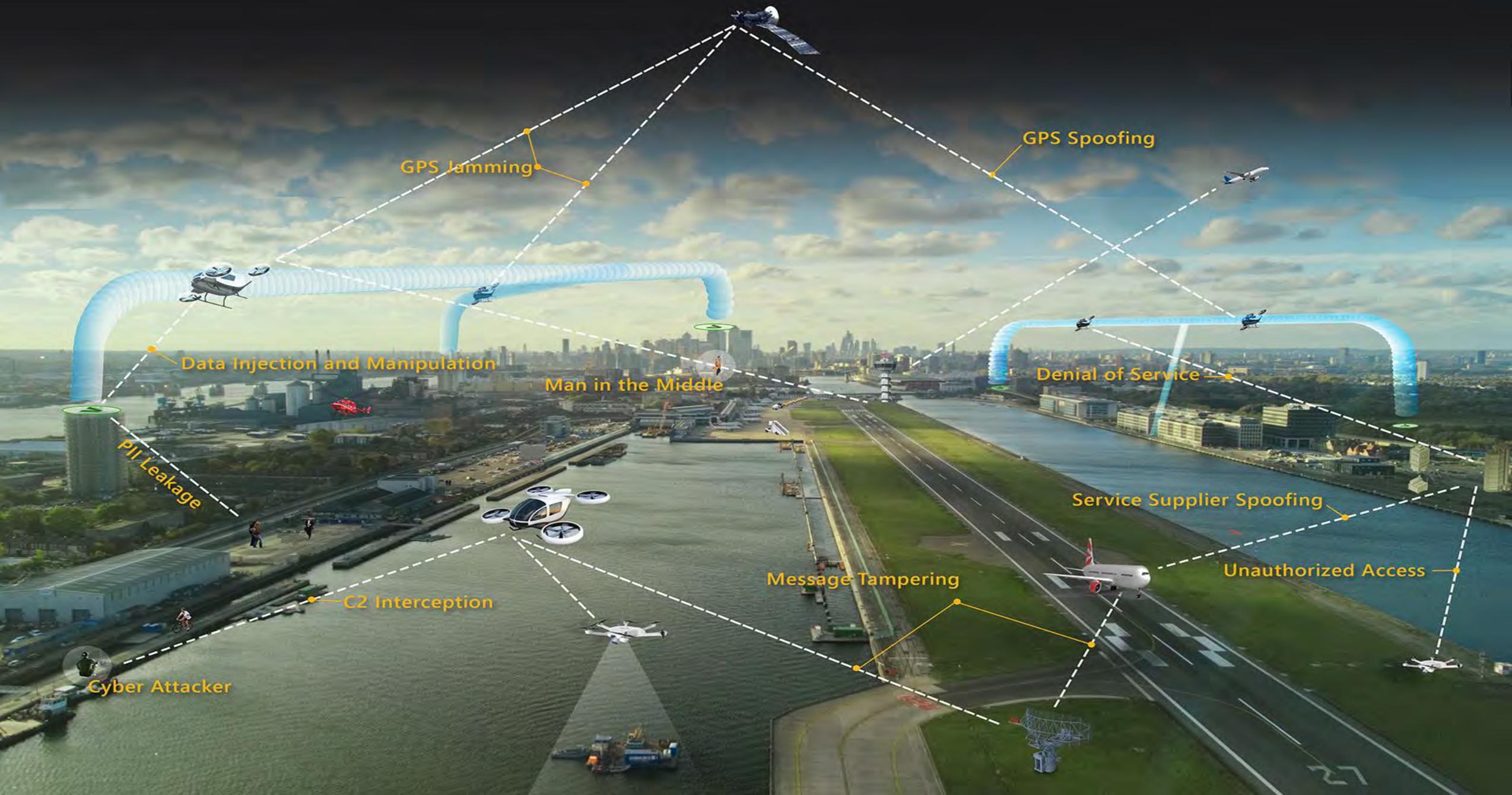


2022 Cybersecurity attacks on Aviation





- GPS Spoofing
- Distributed Denial of Service (DDoS)
- Message Injection & Modification
- Data Leakage
- Ransomware
- Jamming
- Man-in-the-Middle (MITM)



Cyber security by Design: From the ground up to manage risks to the critical infrastructure



Capability	Description
Identify	What processes and assets need protection?
Protect	Implement appropriate safeguards to ensure protection of the enterprise's assets
Detect	Implement appropriate mechanisms to identify the occurrence of cybersecurity incidents
Respond	Develop techniques to contain the impacts of cybersecurity events
Recover	Implement the appropriate processes to restore capabilities and services impaired due to cybersecurity events

FAA Requirements

- Conduct an in-depth assessment of the entire UAM ecosystem
- Cloud servers
- Aircraft and Software
- Processes supporting operations

AAM Ecosystem

- Strict Supply Chain Management
- Adapt Zero-trust Approach
- **Identify** vulnerabilities
- **Protect** against unauthorized access and communication
- Monitor all communications to **detect** anomalies
- Program service providers, vehicles and operators, and infrastructure to **respond** to detected cybersecurity events and alert industry and government stakeholders
- Develop protocol to assess the **recovery** process of any affected systems
- Document lessons learned

Cyber Resiliency

Ensure Operations Continuity

Safe-to-Fail Design – multi-layer

Multi-layered protection Architecture

Holistic and trans-organizational program

Continuous and Ongoing Monitoring

User interface to capture cooperative and un-cooperative behaviors

Threat Conditions and Failure modes drive design approach

Possible ability to evolve using AI/ML

Security and Safety Development Assurance

Configuration and Change Management to ensure cyber resilience is maintained

Basic Cyber Principles

Security is an evolutionary and continuous process.

Systems are comprised of technology, people and processes and each system is part of and contributes to the security of a System-of-Systems.

Resilience is the ability to prevent disruptions, to prepare for and adapt to changing conditions and to detect, respond and recover rapidly from disruptions to ensure the continuity, integrity and confidentiality of services at an acceptable performance level.

A bespoke design of an aviation system does not guarantee resilience to cybersecurity threats.

Cybersecurity measures can only be effective if applied in a timely manner.

Managing complexity is key to cybersecurity.

The airborne platform is the last line of defense.

The European Strategic Coordination Platform for Cybersecurity in Aviation



***“Empowering Companies to
Successfully Manage Global
Cybersecurity Risks,
Vulnerabilities,
and Compliance Requirements”***

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<https://aerospaceamerica.aiaa.org/departments/baking-in-cybersecurity-for-air-taxis/>

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RB ADVISORY

Security Compliance | Cyber Risk Management

OVERVIEW

Mission

Our mission is to empower companies to successfully manage global cybersecurity risks, vulnerabilities and compliance requirements through innovative and effective solutions.

Vision

RB Advisory is focused on ensuring that our clients are equipped with the best practices and methodology to avoid the devastating consequences of cyber-attacks to their business. We aim to be one of the industry's leading experts for cyber security, risk management and compliance services.

Who we are

Regine Bonneau is the Founder and CEO of RB Advisory LLC, which provides IT and security consulting services for private sector and government clients with over 20 years.

With a global impact, organizations have entrusted RB Advisory to serve as their compliance and cybersecurity partner for these specialized services, which in recent days have proven to be more critical than ever before.

RB Advisory has been instrumental in helping organizations globally implement successful strategies, best practices, and technologies By Design to support:

- **Enterprise Risk Management Programs**
- **Governance, Risk, and Compliance programs**
- **Corporate Compliance**
- **Cyber Security Initiatives**
- **Supply Chain Risk Management**

RB Advisory, LLC to help organizations realize their full potential through:

1. **Effective and Innovative solutions** to mitigate Cybersecurity risk and governance challenges
2. **Partnerships** everyone can play their part in delivering on the mission of protecting the people, and system that serve this nation and our allies

RB Advisory brings a wealth of knowledge and vast experience across regulations and compliance requirements.

We stand apart from our competitors in that we provide top-level support from start to finish –serving a variety of industries ranging from the defense industrial base, healthcare, fintech, government/municipalities, retail and other technology companies.

M/WBE: Minority Woman Business Enterprise
SBA Certified WOSB: Women Owned Small Business
SBA Certified EDWOSB: Economically Disadvantage
 Women Owned Small Business
SBE: Small Business Enterprise
DBE: Disadvantage Business Enterprise
LDBE: Local Disadvantage Business Enterprise
RPO: Registered Provider Organization (CMMC-AB)

CAGE Code: 843K1
DUNS: 080654723
NAICS Code:
 541330
 541519
 541611
 541690
 541990





Cybersecurity

- Cyber Risk Assessments
- Gap Analysis
- Vulnerability Management
- Penetration Testing
- Cyber Security Strategy Plan
- M&A Due Diligence
- Virtual CISO (vCISO)



Risk Management

- Cyber Risk Management Plans
- Cyber Liability Insurance
- IT Security Audits
- Incident Response Plan
- Third Party Risk Management
- Cloud Management
- Change Management



Compliance

- Governance, Risk, Compliance
- Privacy Consultations: Safeguards, US Privacy Shield, & EU's GDPR
- Federal & State Regulations: Compliance/Privacy
- NIST 800-171/CMMC
- Education Awareness Training
- Policies and Procedures



Government Solutions

1. IT Project Management
2. Staff Augmentation
3. IT Enterprise Architecture Design & Implementation
4. System Integration
5. Disaster Recovery Planning
6. Business Continuity
7. COOP
8. Cloud Management
9. Change Management
10. Configuration Management
11. Risk Management Framework (RMF)
12. NIST Frameworks
13. Information Assurance
14. CMMC 1.0 / 2.0 NIST 800-171 Certification Readiness



IT Solutions

1. IT Enterprise Architecture (Design, Integrate, & Test)
2. vCIO / vCTO
3. Cloud Management & Security
4. Help Desk
5. Capabilities & Tools Deployment
6. Risk Mitigation Corrective Actions
7. Training
8. Disaster Recovery Planning
9. Business Continuity Planning
10. Backup infrastructure Design
11. Staff Augmentation



Cyber Risk Management Solutions

1. vCISO
2. Cyber Security & Risk Management Program Strategy & Planning
3. Categorization - Data & Systems
4. Security Controls & Governance - Policies, Processes & Procedures
5. Risk & Security Assessments
 - Security Architecture Review
 - Product Security Review
 - Controls Audit
 - Penetration Testing
 - Physical Security
 - Social Engineering
6. Risk Mitigation Planning
7. Zero Trust Programs
8. Data Privacy Consultation & Compliance Analysis



1. Experience in 8 of the 16 Sectors
 1. Financial
 2. Defense Industry
 3. Healthcare and Public Health
 4. Transportation Systems
 5. Information Technology
 6. Government Facilities
 7. Water
 8. Energy
2. Understanding of Unique Segment Requirements
3. SCADA System Risk Assessment
4. Incident Response Plan
5. Physical Security Assessment
6. Access Control
7. Vendor Management



LEGISLATIVE UPDATE

NICHOLAS ALLEN

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

**North Texas UAS Safety and Integration Task Force
Meeting**

March 28, 2023

FEDERAL UPDATE

Filed Legislation

H.R. 86: Buzz Off Act

- Prohibits federal law enforcement from using UAVs to conduct surveillance of U.S. citizens or the property of such an individual, with certain exceptions.
- Specifically, this prohibition shall not apply if (1) the federal law enforcement agency in question first obtains a search warrant, (2) the Department of Homeland Security certifies that such surveillance is necessary to counter a high risk of a terrorist attack by a specified person or organization, or (3) the citizen gives written consent.



FEDERAL UPDATE

Filed Legislation

S. 3.07

- If passed, FAA must issue rules towards a regulatory pathway for certification or approval of UAS to enable commercial BVLOS six months after this bill is passed.

S. 157: Drone Act of 2023

- Defines “Misuse of unmanned aircraft” to include drug trafficking, interfering with airports
- Prohibits the weaponization of unmanned aircraft
- Prohibits altering identification numbers



FEDERAL UPDATE

Filed Legislation

S. 473: American Security Drone Act of 2023

- If passed, the bill would ban procurement of unmanned aircraft systems from China and other foreign countries
- Over half of the bill is currently composed of exemptions, waivers, and exceptions. Specifically, the bill exempts state and local law enforcement and emergency services from procuring or operating unmanned aircraft purchased with non-Federal dollars.



November 14, 2022

Bill Filing for the 88th
Texas Legislature
Began

January 10, 2023

88th Session of the
Texas Legislature
Convened

March 10, 2023

Bill Filing Deadline
(Excluding Local Bills)

May 29, 2023

Final Day of the 88th
Regular Session

June 18, 2023

Last Day Governor
Can Sign or Veto Bills

TEXAS LEGISLATURE - DATES OF INTEREST



BILLS OF INTEREST

Unmanned Aircraft

- HB 1302 (Geren)- Relating to inspections and examinations by the Railroad Commission of Texas of certain sites and facilities conducted using unmanned aircraft. **Committee action pending House Energy Resources.**
- HB 1516 (Wilson)/ SB 423- Relating to the use of unmanned aircraft by the Texas military forces. **Committee action pending House Defense and Veterans' Affairs; Senate Bill voted favorably from Committee.**
- HB 2159 (Capriglione)- Relating to the prosecution of the criminal offense of operation of an unmanned aircraft over certain facilities. **Introduced and referred to committee on House State Affairs.**



BILLS OF INTEREST

Unmanned Aircraft

- HB 2365 (Geren)-Relating to the operation of an unmanned aircraft over an airport or military installation. **Introduced and referred to committee on House State Affairs.**
- SB 1308 (Hancock)- Relating to the operation of an unmanned aircraft over an airport or military installation. **Placed on Local and Consent Calendar.**
- HB 2678 (Cook) / SB 2144 (Parker)- Relating to advanced air mobility technology. **Introduced and referred to committee on House / Senate Transportation.**
- HB 3075 (Kacal)- Relating to the operation of an unmanned aircraft over a correctional facility or detention facility. **Meeting set for 10:30 A.M. OR ADJ., JHR 140 - House Corrections.**



BILLS OF INTEREST

Unmanned Aircraft

- HB 3489 (Gervin-Hawkins)- Relating to the use of an unmanned aircraft to locate and retrieve wounded or killed wildlife. **Introduced and referred to committee on House Culture, Recreation, and Tourism.**
- HB 4102 (Guillen)/ SB 1986 (Hughes)- Relating to prohibiting the acquisition or use of certain unmanned aircraft by a governmental entity. **No action on either bill.**
- HB 4249 (Morales) / SB 1899 (Birdwell)- Relating to a law enforcement agency's use of deadly force by means of a drone. **No action on either bill.**



CONTACT US



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NCTCOG Legislative Updates: www.nctcog.org/legislative

Texas Legislature Online: <https://capitol.texas.gov/>





**BELL ADVANCED VERTICAL ROBOTICS COMPETITION
STEM SPONSORSHIP OPPORTUNITY**

WHY

BELL ADVANCED VERTICAL ROBOTICS COMPETITION



**LEGACY OF
STEM SUPPORT**

2017

17 Students, 2 Schools



**SUCCESSFUL FIRST
ROBOTICS MODEL**



**EMERGENCE
OF NEW
TECHNOLOGY**



**GAP IN
STEM-BASED
COMPETITIONS**

2022

700+ Students, ~60 Schools

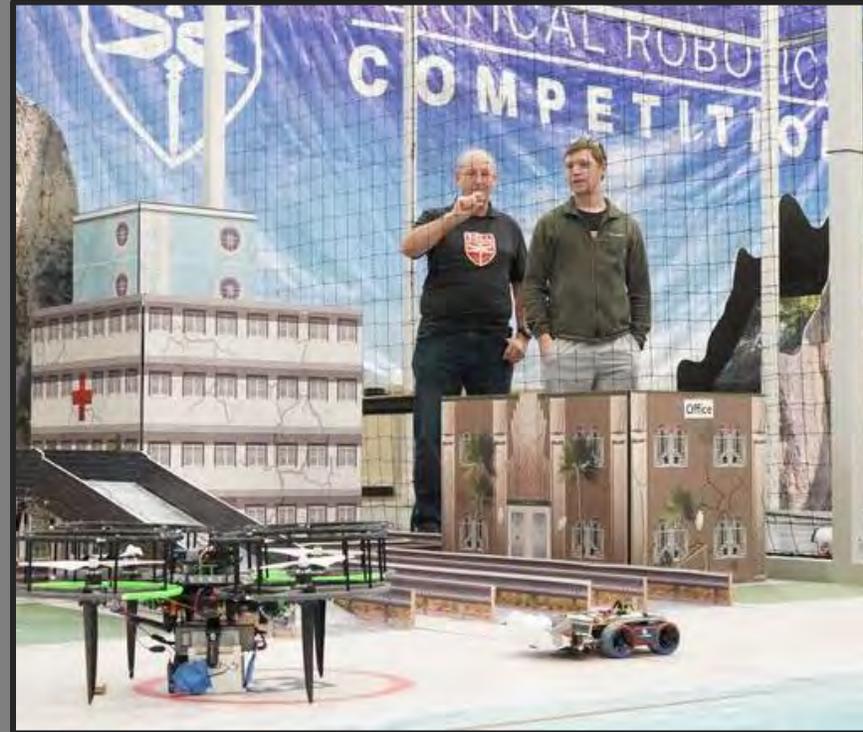
CREATING VALUE FOR STUDENTS, EDUCATORS, AND INDUSTRY

WHAT IS THE BELL ADVANCED VERTICAL ROBOTICS COMPETITION

Extensive Team Engagement
Multidiscipline Learning



Real World Mission Scenarios
Air & Ground Integration



Cutting Edge & Open Source
Technology



AFFORDABLE EXECUTION

UNIVERSITY TEAMING

INDUSTRY INVOLVEMENT

UNIQUE 10-WEEK HIGH SCHOOL STEM COMPETITION

BELL ADVANCED VERTICAL ROBOTICS

MEMBER OF THE BIC FURNACE
IN PARTNERSHIP WITH ABL

AVR



SPONSORSHIP LEVELS

NOTE: All funding provided directly to REC Foundation (501c3) for tax purposes

GOLD

\$50k+

- Event t-shirt logo
- REC landing page branding
- Event space banner
- Press release branding
- Bell's social media partner
- Sponsor recognition during event kickoff
- 2 minute kickoff talking slot

SILVER

\$30k - \$50k

- Event t-shirt logo
- REC landing page branding
- Event space banner
- Press release branding
- Bell's social media partner
- Sponsor recognition during event kickoff

BRONZE

\$10k - \$30k

- Event t-shirt logo
- REC landing page branding
- Event space banner
- Sponsor recognition during event kickoff

Additional information available at <https://roboticseducation.org/bell-advanced-vertical-robotics/>

Or contact Rohn Olson, Bell Sr. Tech Fellow (rolson@bellflight.com | 817-280-4377)