



Virginia UAS Test Site Progress

for

House Appropriations Committee Retreat

Provided by

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Why pay attention to Unmanned Aircraft Systems (UAS)

- Big market developing (Google, Amazon, Lockheed Martin, etc)
- Immediate impact in emergency management.
- Short term impact in agriculture, infrastructure.
- Potential HUGE economic impact
 - In Virginia: 2380 jobs and \$463M in economic impact by 2017*
 - More than \$82B total economic impact in US.*

*"The Economic Impact of Unmanned Aircraft Systems Integration in the United States", AUVSI, March 2013.

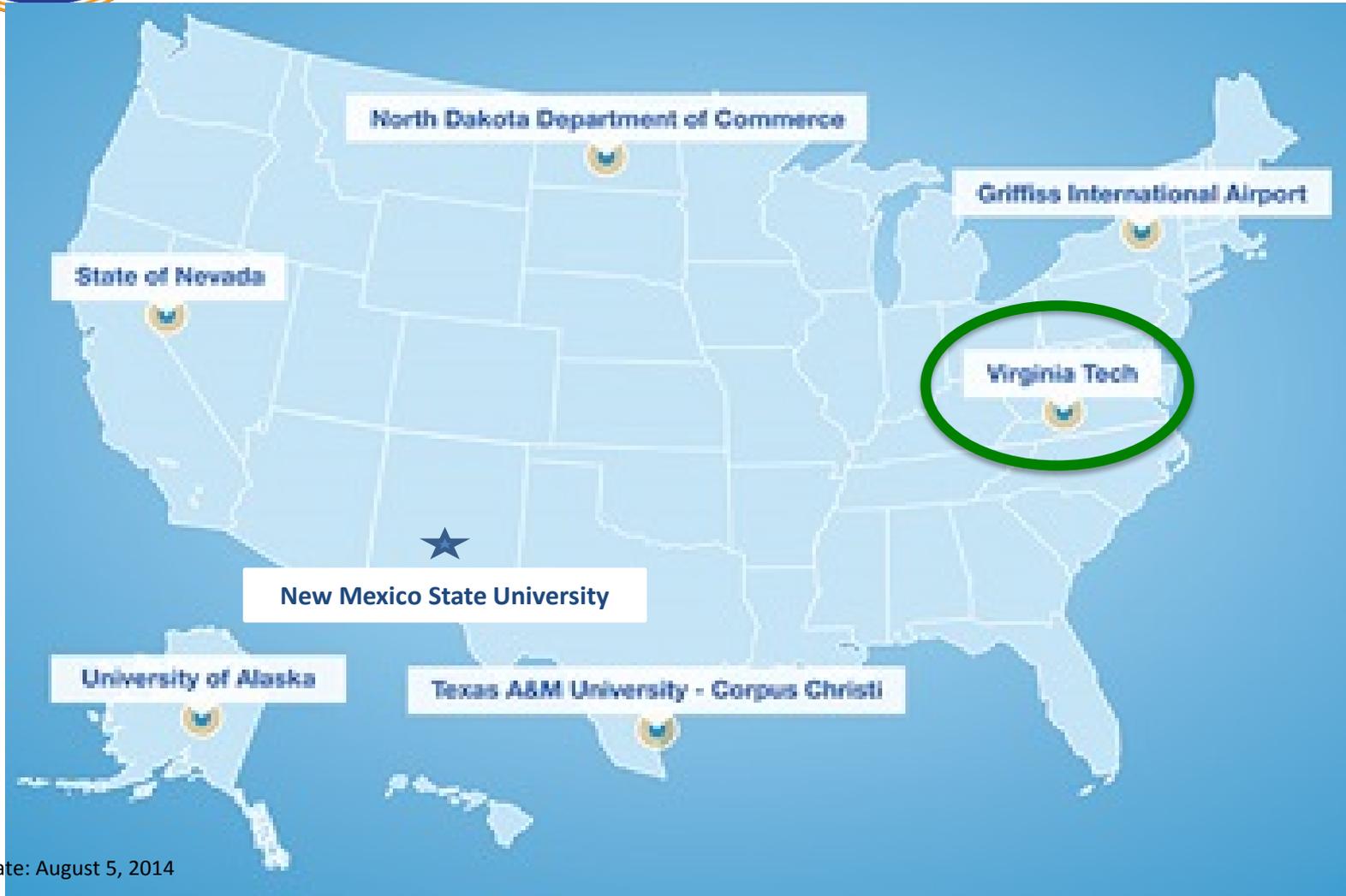


- The FAA Modernization and Reform Act of 2012 required the FAA to establish a program to integrate Unmanned Aircraft Systems (UAS) into the National Airspace System at six Test Ranges.
- Awards were announced Dec 30, 2013 to:
 - University of Alaska
 - State of Nevada
 - Griffiss International Airport (Rome, NY)
 - North Dakota Department of Commerce
 - Texas A&M University—Corpus Christi
 - **Virginia Polytechnic Institute and State University (Virginia Tech)**



Virginia Tech awarded \$2.6M via FACT Fund Dec '13 to develop Virginia's Test Site

Six (or Seven?) UAS Test Sites



The MAAP Team



- Led by Virginia Tech, Univ. of Maryland and Rutgers
- Team strengths:
 - Three top 50 research universities
 - Companies w/ experience in UAS development, manufacturing, testing, integration, and operation
 - Existing relationships to federal UAS R&D centers
 - William J. Hughes FAA Tech Center
 - NASA: Langley and Wallops
 - Navy: Patuxent River and Dahlgren
 - State Economic Development Authorities
 - Location, location, location

Led by universities; focused on business!





The MAAP Mission

Mission: The *safe and efficient* integration of Unmanned Aircraft Systems (UAS) into our National Airspace System



Objectives:

- Facilitate a safety-focused, risk-based approach to integration of UAS into the National Airspace System (NAS)
- Act as an economic engine for the UAS industry in the Mid-Atlantic region .



FACT Fund

- Federal Activity Contingency Trust Fund
- Awarded December 2013
- \$2.6M total award
 - (FY14: \$1.0m, FY15: \$1.2m, FY16: \$436k)
- FY14 Funding

	Budgeted	Expended	Remaining
Personnel	\$307,711	\$213,823	\$93,888
Rent	\$6,250	\$0	\$6,250
Equipment	\$273,500	\$197,231	\$76,269
Contractual Services	\$350,000	\$394,905	(\$44,905)
Marketing Expenses	\$62,500	\$38,722	\$23,778
TOTAL	\$999,961	\$844,680	\$155,281



MAAP Financial Projections

Virginia Tech UAS Test Site

Statement of Revenues, Expenses and Net Income (Loss)

	FY15	FY1`6	FY17	FY18	FY19
FACT Fund	1,200,000	436,000	-	-	-
UAS Research Services	250,000	750,000	1,200,000	1,440,000	1,728,000
Membership Dues	-	50,000	75,000	90,000	108,000
Total Revenue	1,450,000	1,236,000	1,275,000	1,530,000	1,836,000
Expenses					
Labor and Benefits	(656,851)	(525,883)	(638,436)	(731,075)	(779,408)
Other than Labor	(348,740)	(625,000)	(735,000)	(764,000)	(847,200)
Total Expenses	(1,005,591)	(1,150,883)	(1,373,436)	(1,495,075)	(1,626,608)
Net Income (Loss)	444,409	85,117	(98,436)	34,925	209,392

Flight Locations



- Total In Process/anticipated 25
- Locations being worked:

VA

- Bealeton
 - Blackstone
 - Chester
 - Suffolk
 - Wallops
- Blacksburg
Columbia
Dahlgren
Wakefield
Wise



MD

- Pax River
- St. Mary's County

NJ

- Cape May

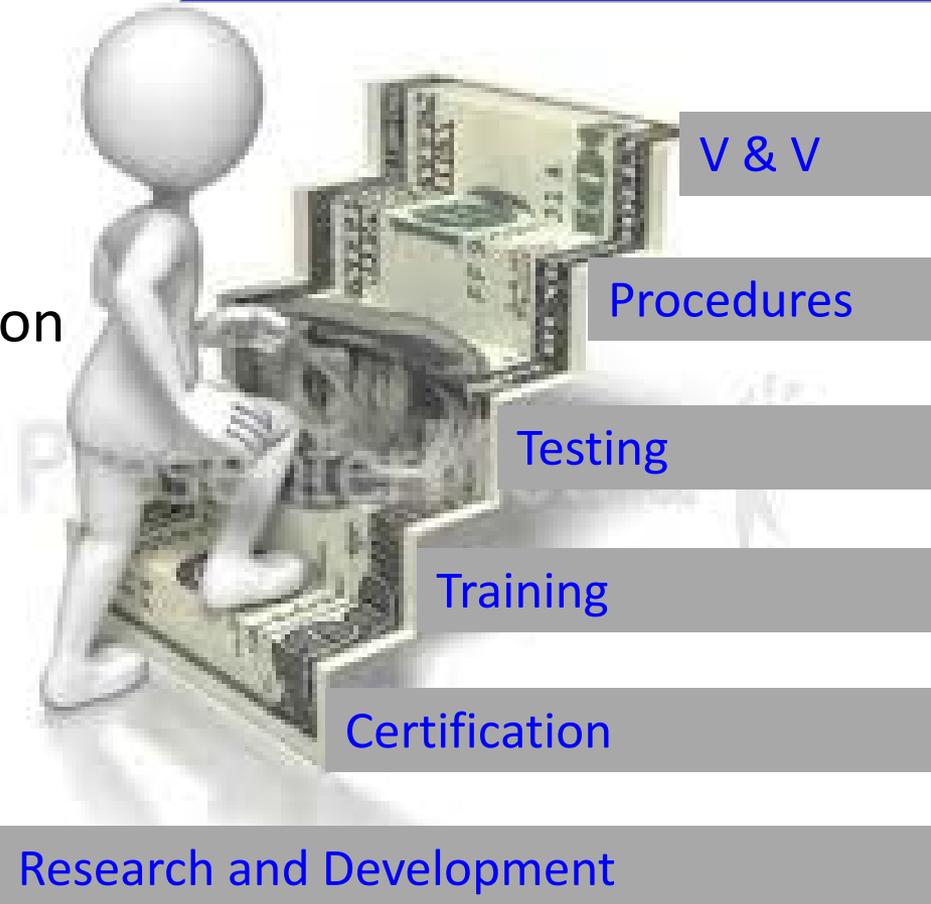




Customer Update

Path to Commercial Access

- **Operators**
 - Media operations
 - Precision agriculture
 - Infrastructure Inspection
 - Training and currency
- **Manufacturers**
 - Test and evaluation
 - Training and currency
- **Payload Providers**
 - Test and evaluation
- **Federal Government**
 - Test and evaluation



Virginia has issued 33 proposals for over \$450K .



First Flight



First Flight Conducted August 13



Emergency Response

- Issued Oct 2nd-9th– Charlottesville
- Mission – Search for Hannah Graham
- Use of Aeryon Sky Ranger
- Obtained within 2 hours of completed data package provided
- Area extension provided within one day

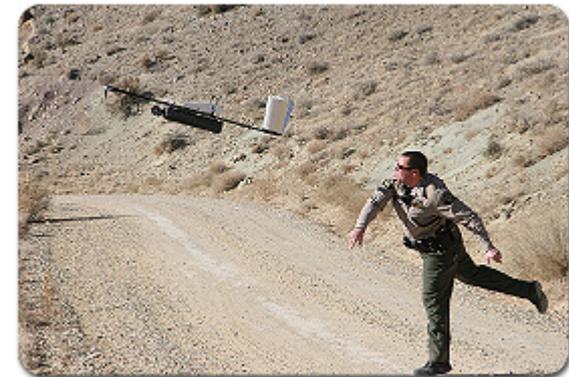


PROCESS WORKS



First Responder UAS Workshop

- November 19th, Blackstone Virginia
- Hosted by VDEM, VA DOAV, VEDP, MAAP
- Assist Virginia first responders with
 - System selection
 - Development of training waivers (that permit some emergency response)
 - Development of jurisdictional waivers





Looking Ahead

- We are positioned to make a difference:
 - Public service
 - Economic development
- We are bringing companies to the table for Virginia.
- In addition to the ability to test, companies are looking for:
 - Incentives
 - Infrastructure



Questions?

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