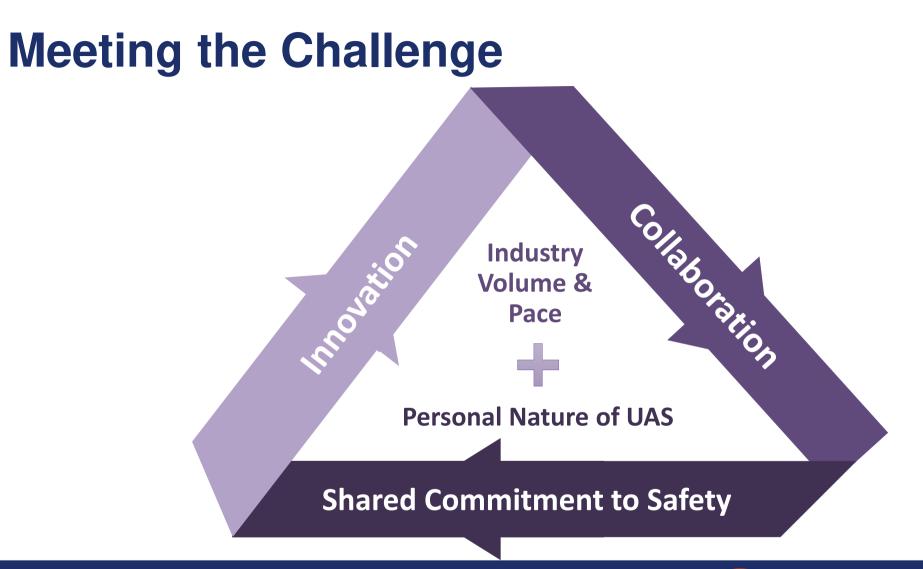
UAS Integration Activities

Presented to:	International Council of the Aeronautical Sciences
Presented by:	Ian Ross Senior Representative/Attaché Federal Aviation Administration
Date:	12 September 2017

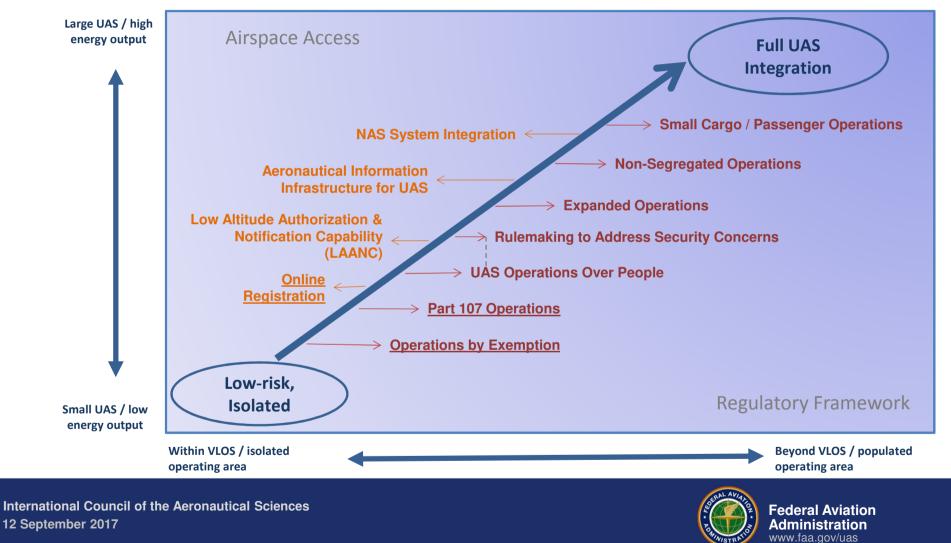




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The Path to Full Integration



Authorizing Small UAS Operations (Part 107)

- Rule took effect on August 29, 2016
- UAS must weigh less than 55 lbs. and be registered
- Operator must obtain a Remote Pilot Certificate
- Visual line-of-sight operations during daylight, 400 feet or below or within 400' of a structure
- External load operations permitted if the load does not affect flight operations or control
- Must yield right-of-way to manned aircraft
- No operations over people





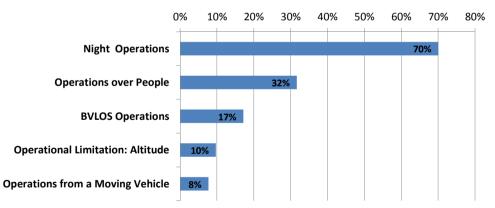
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UAS By the Numbers

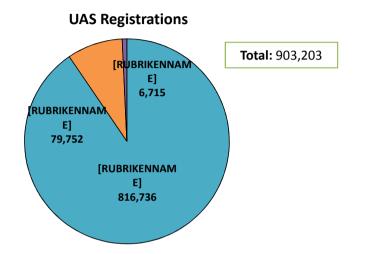


Total Remote Pilot Certificates Issued: 59,952 Total Knowledge Exams Passed: 41,641 Knowledge Exam Success Rate: 92%

Top 5 Waiver Requests



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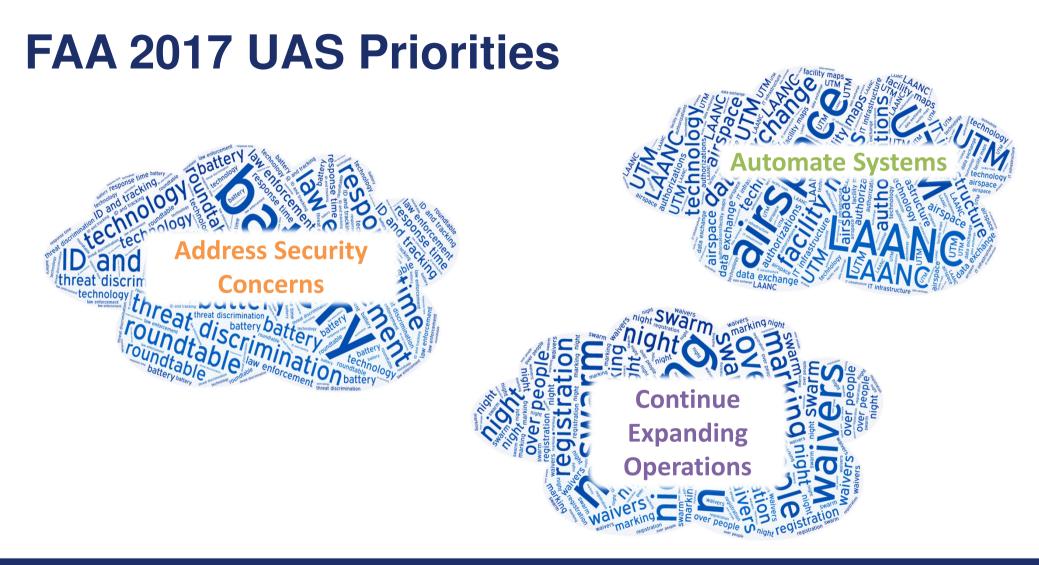
Airspace Waivers/ Authorizations Approved		
Class B	989	
Class C	1,506	
Class D	4,072	
Class E	708	
TOTAL	7,275	



Next Steps

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Expanding UAS Operations

3 Focus Area Pathfinders are informing more advanced operational concepts:



1. CNN

• Visual line-of-sight (VLOS) operations over people



2. Precision Hawk

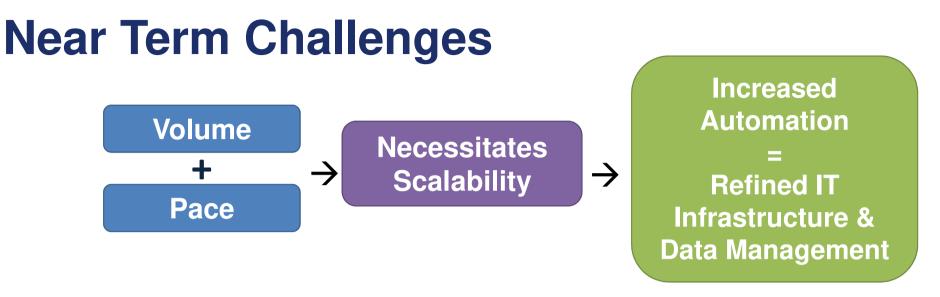
Extended visual line-of-sight (EVLOS) operations in rural areas



3. BNSF Railways

Beyond visual line-of-sight (BVLOS) operations in rural areas

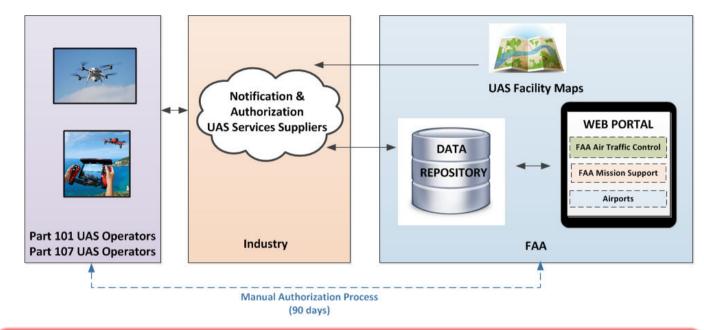




- The FAA is developing an IT gateway a one-stop shop for all things UAS
 - This will support streamlined waiver and authorization requests for Part 107 operations, UAS registrations, report accidents, and more
- Airspace authorization requests are evaluated manually, and keeping up with the number of requests is challenging
 - The development of the Low Altitude Authorization and Notification Capability (LAANC) will allow for automated authorizations – for both hobby operators and Part 107 remote pilots



Low Altitude Notification & Authorization Capability (LAANC)

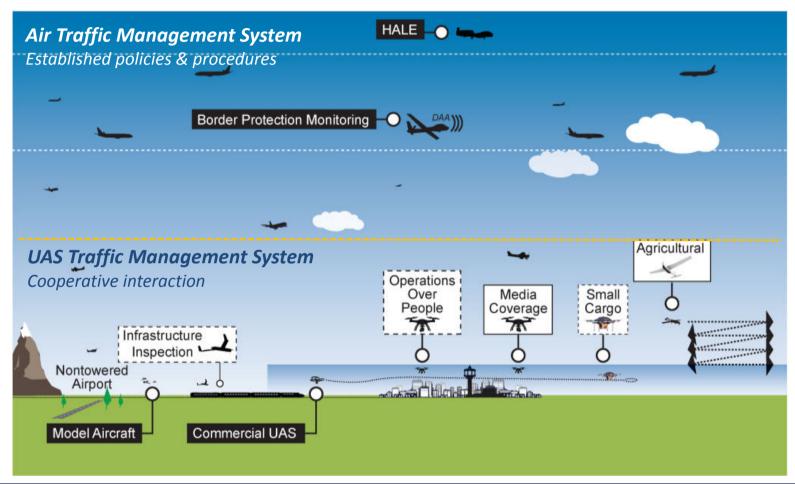


Goals

- Enable efficient Part 101/107 notification and authorization services to small UAS operators
- Provide the data exchange framework for UAS traffic management (UTM)



Managing Airspace Access – UTM





Security, Collaboration, and Outreach Initiatives

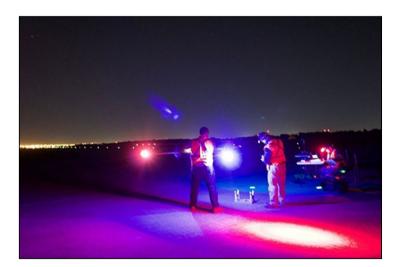
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UAS Detection Initiative

- The FAA partners with DHS, other government agencies, UAS Test Sites, and UAS Center of Excellence to evaluate UAS sensor detection systems at airports
- Industry Partners include:





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Education and Outreach





Questions?



www.faa.gov/uas

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