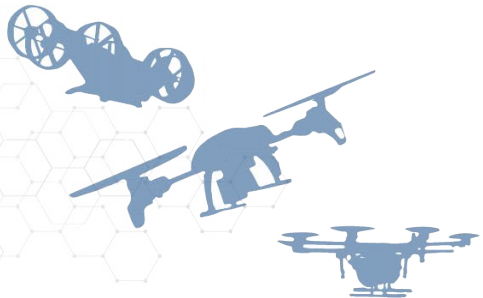




**Federal Aviation  
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UAS Webinar for ICAO NACC & SAM States

November 18, 2020

Rob Pappas, FAA Office of UAS Integration

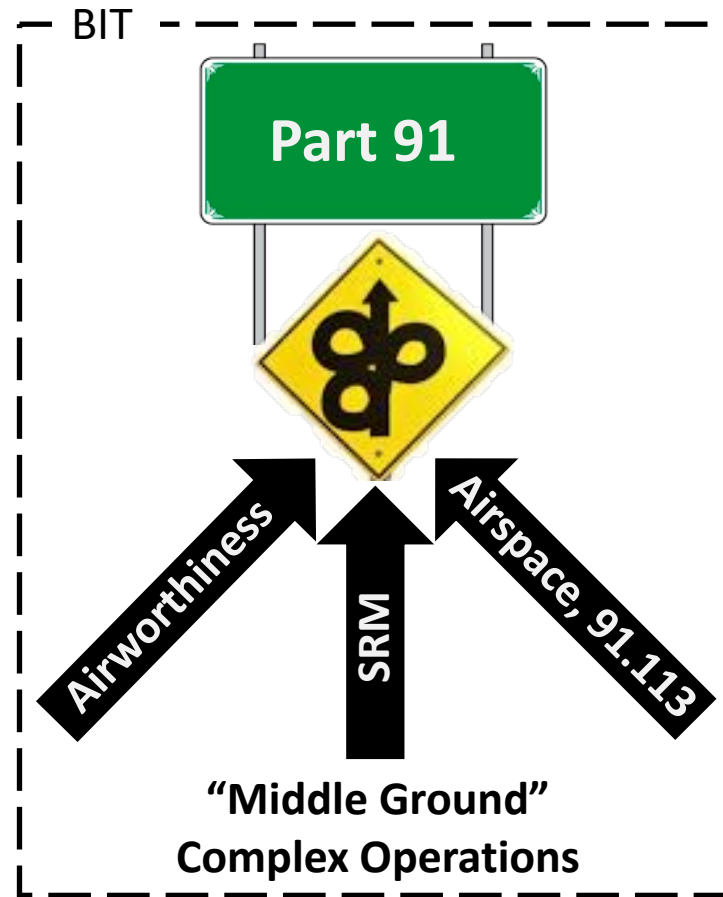
# Beyond 107 Implementation Team



Low Risk  
Operations



Package  
Delivery



Develop now-term,  
repeatable, scalable &  
performance based  
exemption framework  
& template for BVLOS  
operations

Enable operations now  
aligning to & informing  
rulemaking. Similar to  
333/part 107 evolution.



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# BIT Objectives

Ultimate objective: provide repeatable path to complex operations beyond part 107

- Repeatable → other applicants can follow the path = transparency
- Complex → focus on regulatory path forward for Beyond Visual Line of Sight (BVLOS) and Operations Over People (OOP)
  - BVLOS – address §91.113
  - OOP – address aircraft reliability through airworthiness
- Beyond 107 → operational path under part 91
  - Advantage – inform potential rulemaking



# Operational Scope

- Fully scaled, Class G airspace, below 400 feet or facility map altitudes
- BVLOS and over people
  - Performance based operating limitations
- Certified UAS
  - Durability & Reliability (D&R) or other 21.17(b) certification process for airworthiness
  - Target Population Density:  $\leq 7000$  person/mile<sup>2</sup> (95<sup>th</sup> percentile of USA)
- 8040.6 Safety Risk Assessment
- Team's focus is the environmental, operational, and airspace aspects of risk mitigation





# Key Issues

- Manage the use of airspace to ensure safety and efficiency
- Public interest in physical and environmental safety, security, reliability, and efficiency of critical infrastructure. Save lives and reduce injuries.
- § 91.119(c) and shadowing and masking of linear networks may provide a safe environment within which manned aircraft operations are rare.
- Effective strategic and tactical mitigations
- Layered surveillance system provides a capability of the 'see' function of § 91.113(b)
- Safety risk analysis in accordance with 8040.6 and 8040.4



# Enabling UAS Operations for Infrastructure Inspections

**Industry  
Coalition**

**UAS Type  
Certification  
Process (AIR  
UAS TC Process)**

**FAA 8040.6  
Safety Risk  
Management  
Policy (SRMP)**



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