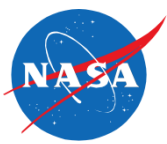
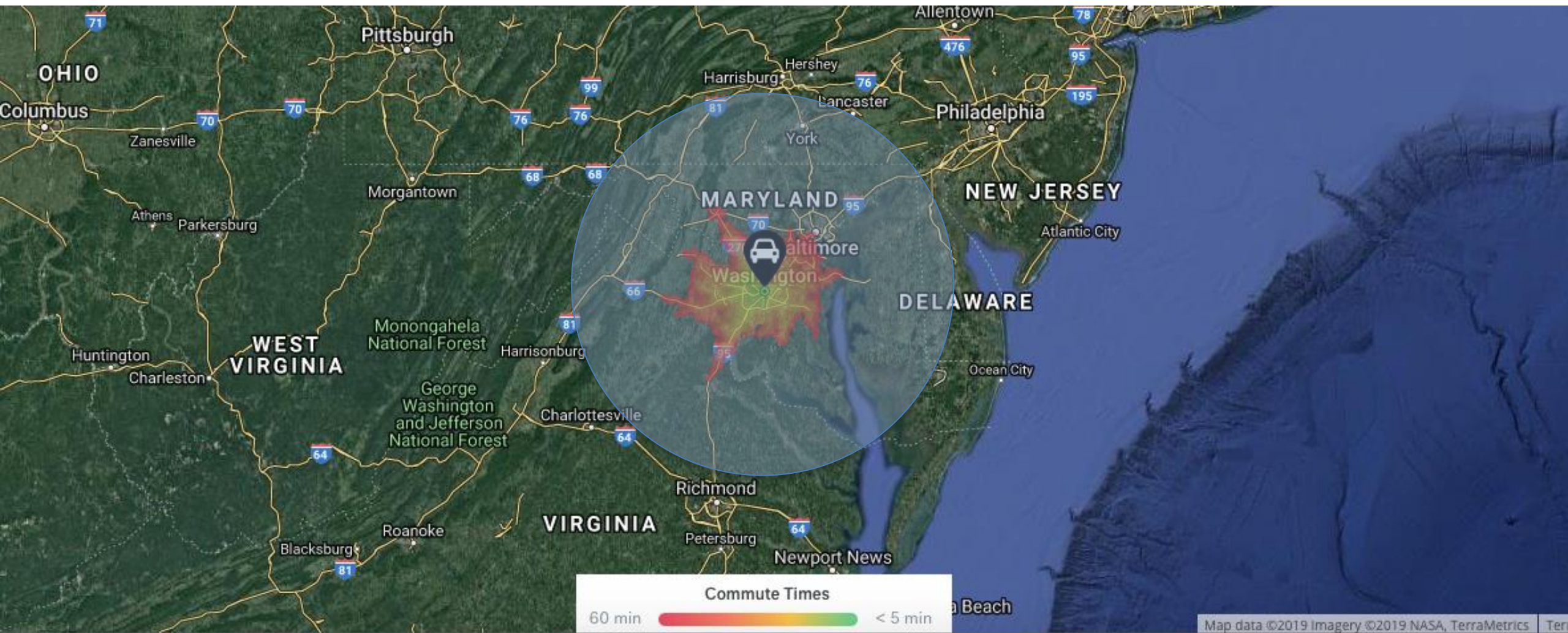




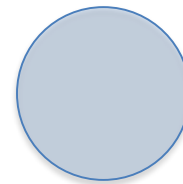
NASA Advanced Air Mobility (AAM)
Urban Air Mobility (UAM) and Grand Challenge
Global Urban Air Summit, Farnborough UK



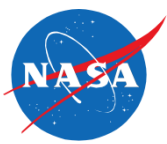
Aerial Reach – 30 Minute Journey



24 hr weighted average
60 minute driving commute
Washington, DC.

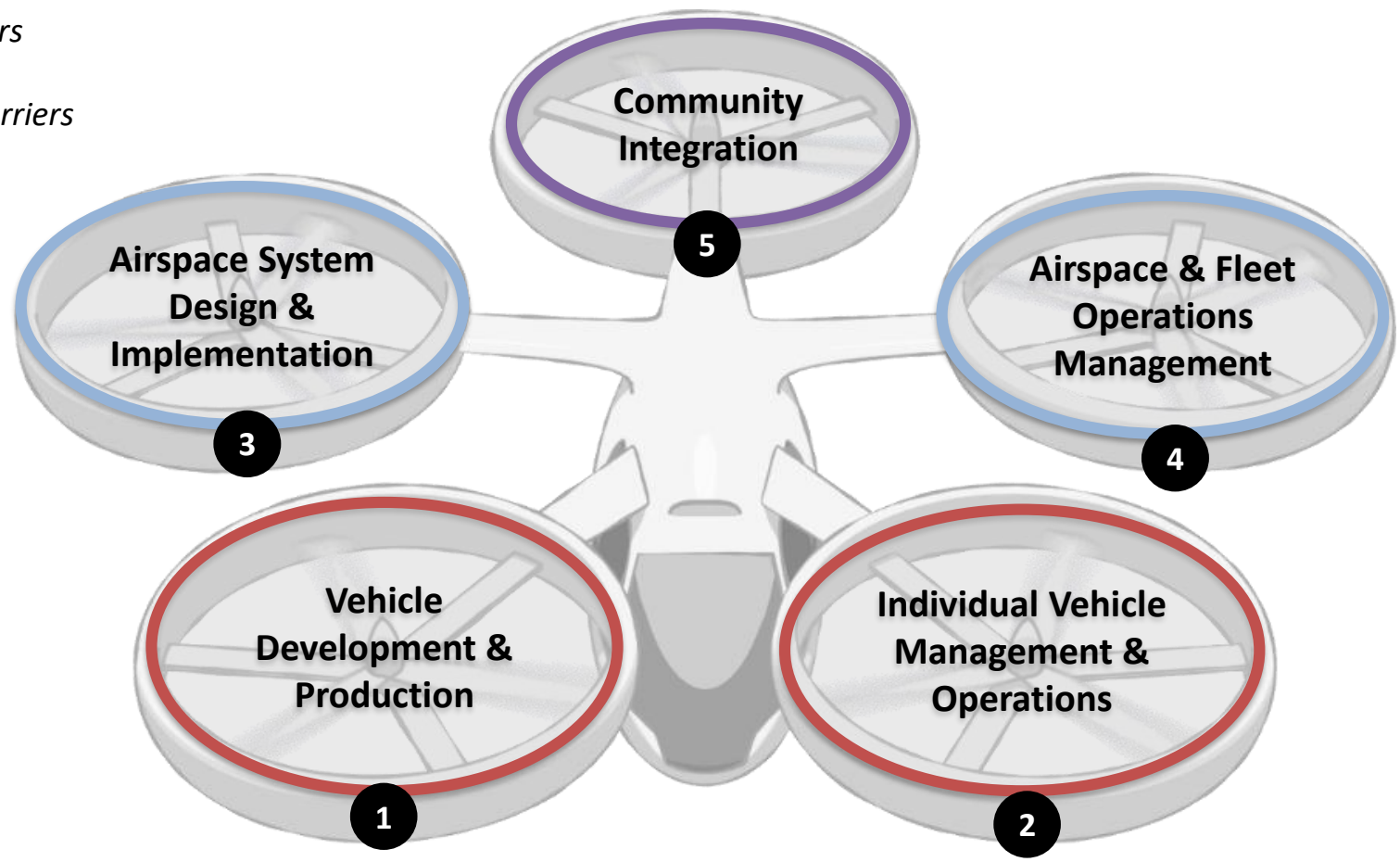


Any time of day
~30 minute (~75mi radius) Aerial Commute
Washington, DC.



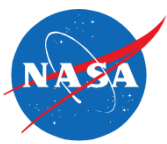
UAM Vision and Framework

- Vehicle and Aircrew Barriers
- Airspace Barriers
- Community Integration Barriers

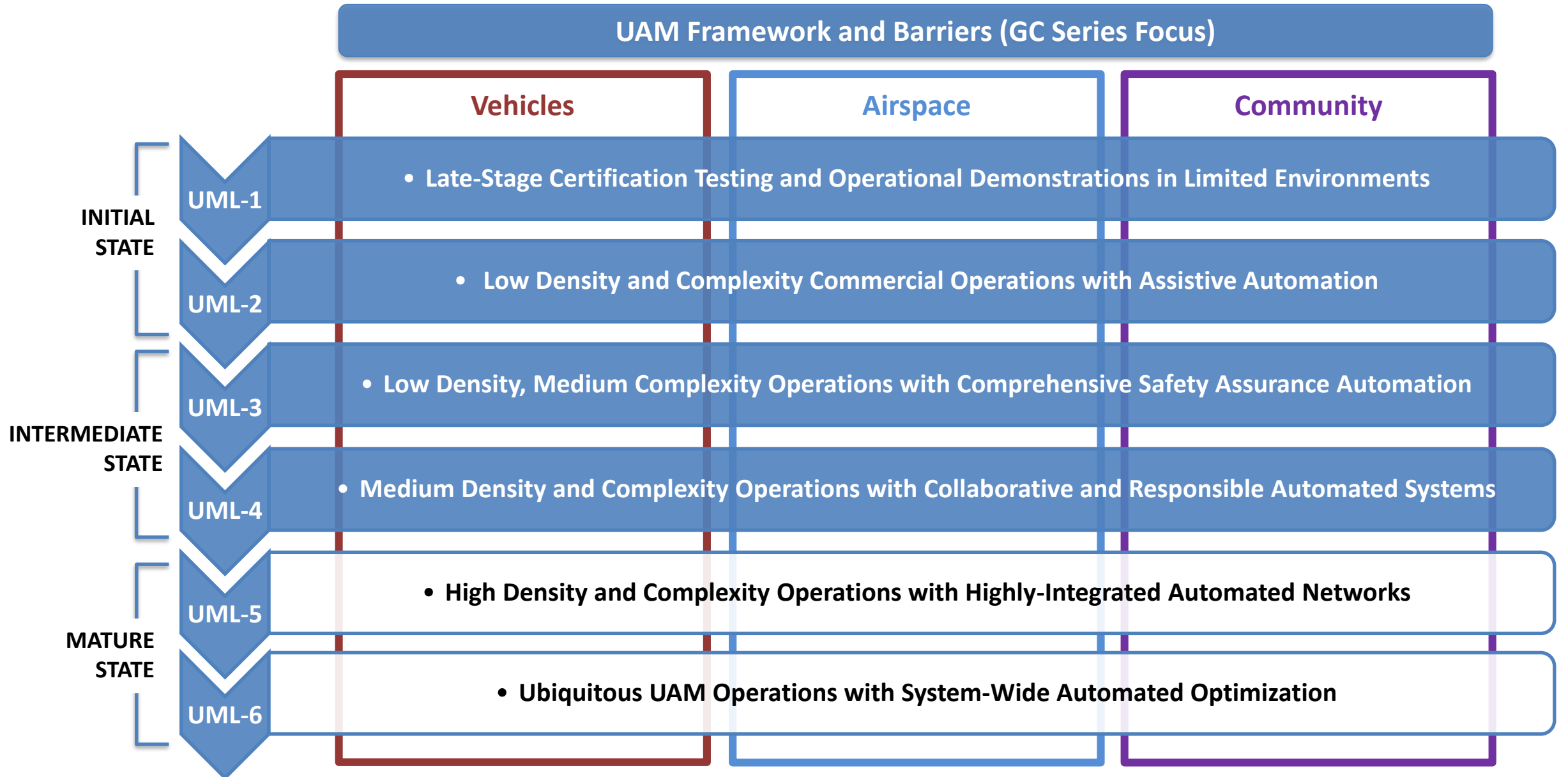


Urban Air Mobility (UAM) Vision

Revolutionize mobility around metropolitan areas by enabling a safe, efficient, convenient, affordable, and accessible air transportation system for passengers and cargo



UAM Maturity Levels (UML)





The Initial UAM “Grand Challenge”

Goal

Improve UAM safety and accelerate scalability through integrated demonstrations of candidate operational concepts and scenarios

Objectives

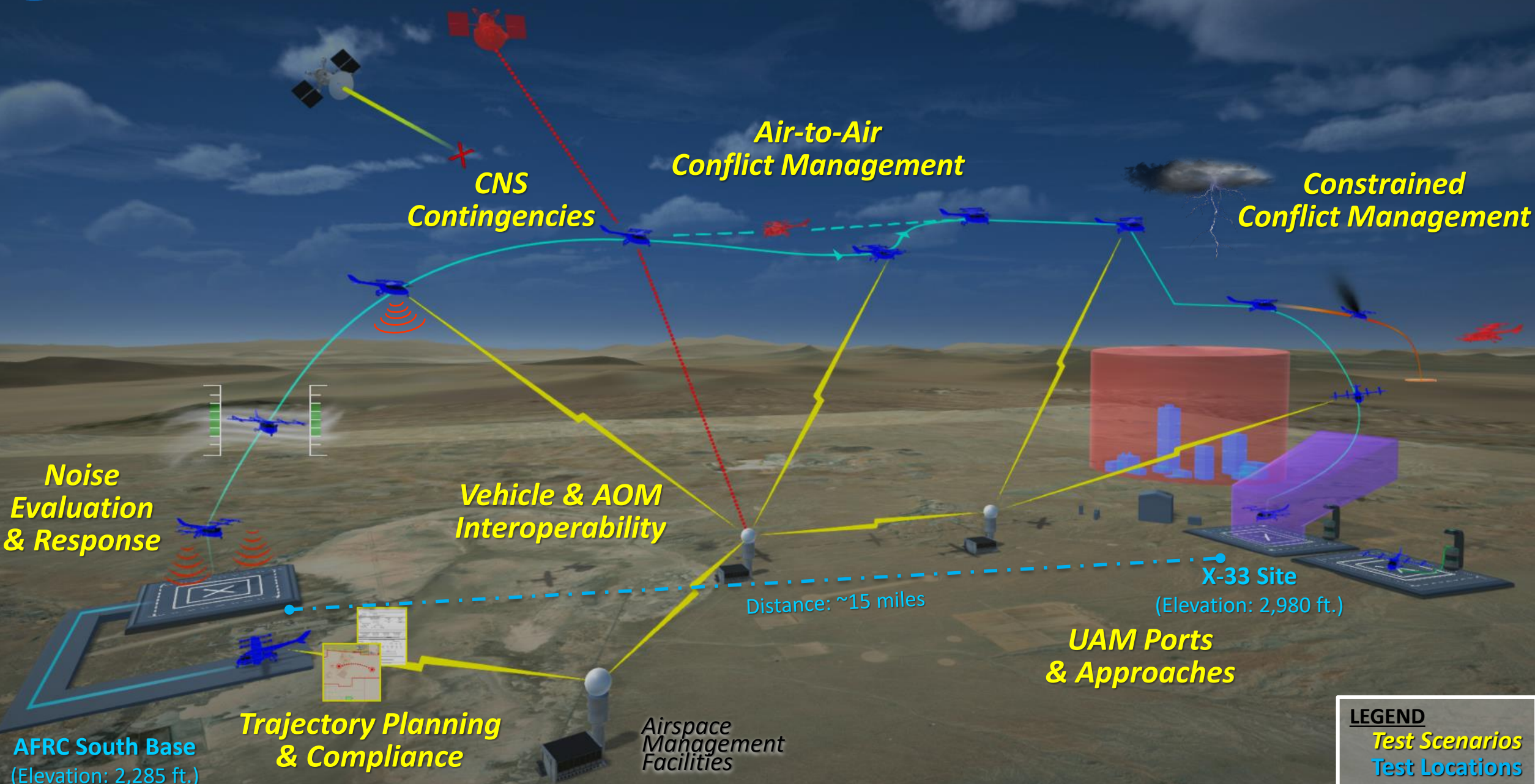
1. Accelerate Certification and Approval
2. Develop Flight Procedure Guidelines
3. Evaluate the CNS Trade-Space
4. Demonstrate an Airspace Operations Management (AOM) Architecture
5. Characterize Community Concerns





National Aeronautics and
Space Administration

NASA First Grand Challenge (GC-1) OV-1



LEGEND

Test Scenarios

Test Locations