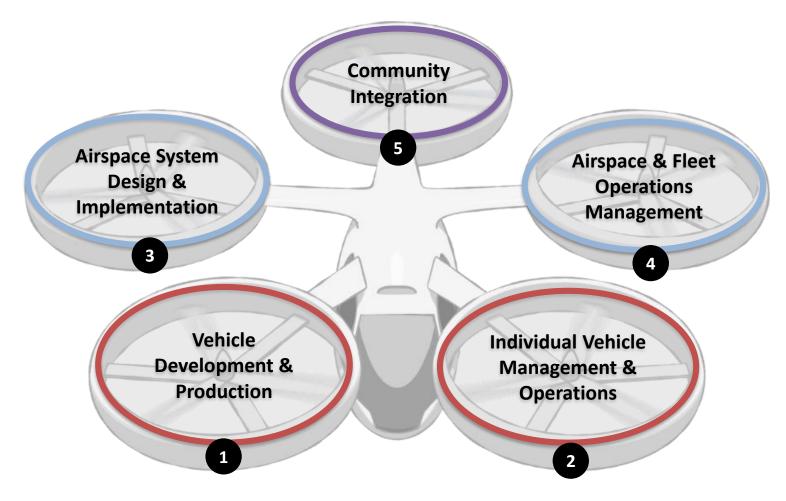




UAM Vision and Framework



Urban Air Mobility (UAM) Vision

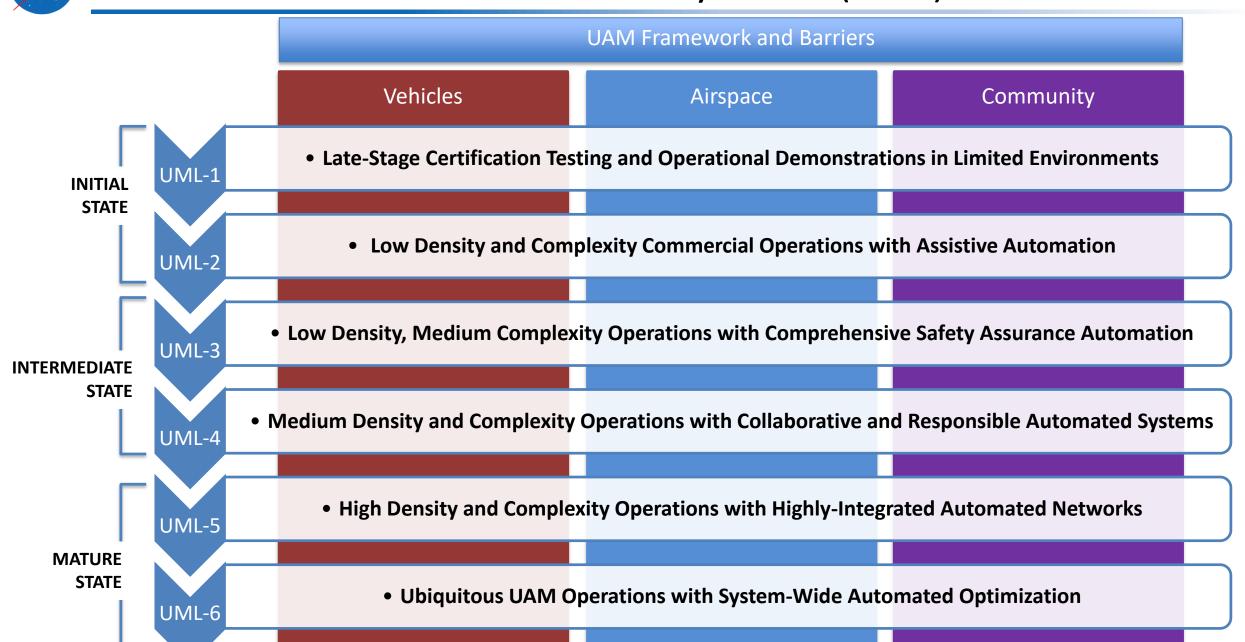
Revolutionize mobility around metropolitan areas by enabling a safe, efficient, convenient, affordable, and accessible air transportation system for passengers and cargo



Community Integration Barriers



UAM Maturity Levels (UML)





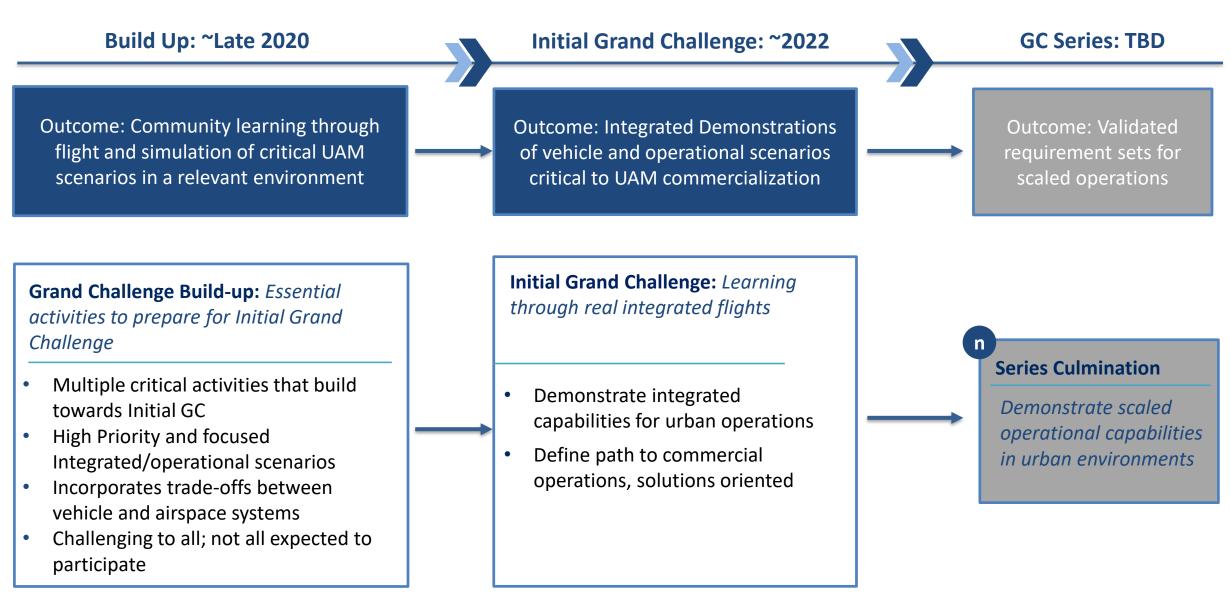
The UAM "Grand Challenge" Series

- Challenging the industry to execute ecosystem-wide systems level safety and integration scenarios
- Demonstrate practical & scalable system concepts (i.e. UML-4)
- Builds knowledge base for requirements and standards
- No purse or prize money



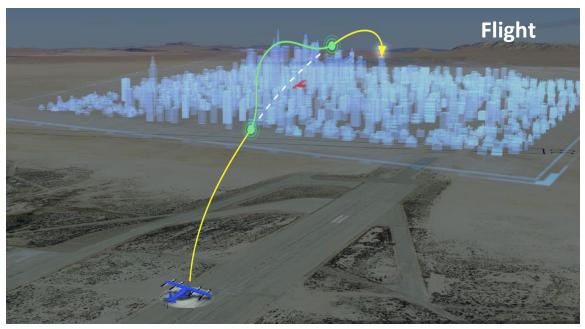


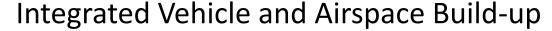
Grand Challenge Series Flow



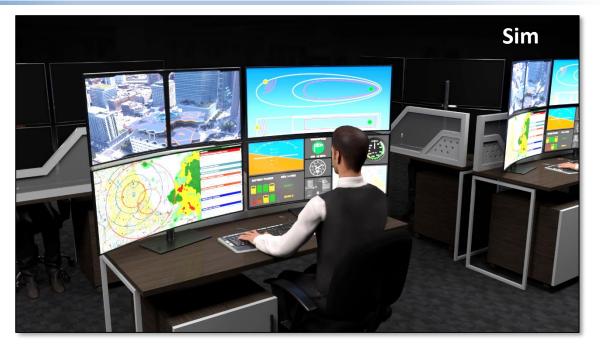


GC Build-up





- Vehicle and airspace systems come together to fly high-priority integration scenarios
- Checkout Initial GC flight scenarios to verify mission and success criteria



Interoperability Build-up with Airspace

- Define common interfaces
- Simulations to checkout integrated services before Initial GC
- Checkout of end-to-end services that will eventually demonstrate requirements for scalable UAM ops

Activities necessary to ensure NASA builds a successful Initial Grand Challenge and provide Industry an opportunity to demonstrate airspace interoperability