NASA Aeronautics Research Mission Directorate (ARMD)
UAS and UAM Research Visions

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Commercial Operating Environments (OE)

- **FL-600**: High Altitude, Long Endurance
  - Cooperative Traffic

- **18K’ MSL**: IFR-Like
  - Cooperative Traffic

- **10K’ MSL**: VFR-Like
  - Cooperative Traffic
  - Non-Cooperative Traffic

- **TOP OF CLASS G**: Low Altitude Rural
  - GA Aircraft
  - Hot Air Balloon

- **TOP OF URBAN AIRSPACE**: Urban Passenger Transport
  - Helicopters

- **500’ AGL**: Low Altitude Urban
  - VLOS

- **Airport**: Terminal Airspace

- **TOP OF URBAN AIRSPACE**: Urban Passenger Transport
  - Cooperative Traffic
Urban Air Mobility (UAM)
The UAM “Grand Challenge”

• Challenging the industry to execute ecosystem-wide systems level safety and integration scenarios

• Raises the water level for all

• Builds knowledge base for requirements and standards

• No purse or prize money