Near-term goal: enable low-altitude operations within 5 years

Long-term goal: accommodate increased demand 10-15 years

MOTIVATION
• Many UAS will operate at lower altitude (Class G, below 2000 feet)
• There is urgent need for a system for civilian low-altitude airspace and UAS operations
• Stakeholders want to work with NASA to enable safe operations

PROGRESS
• Developed UTM vision document
• Defined initial UTM design characteristics
• Conducted an all-stakeholder workshop to gather feedback

CONCEPT OVERVIEW
• UTM System will provide following services:
  - Airspace design and geo-fencing
  - Weather integration
  - Congestion management
  - Separation management
  - Contingency management

UTM WORKSHOP KEY FINDINGS
• Overwhelmingly positive response
• Stakeholders support NASA’s leadership and vision
• Many partners are ready to engage
• There is urgency to put a system in place

PARTNERSHIPS
• UAS manufacturers
• Online retailers
• Communication/navigation/surveillance providers
• System integrators
• Emerging UAS operators
• Cargo operators
• FAA, NOAA, DoD
• UAS test sites

NEXT STEPS
• Obtain authorization to proceed with further development of UTM
• Refine UTM design, architecture, and use cases
• Explore partnership arrangements to engage traditional and non-traditional partners
• Define a spiral development process to do rapid prototyping and early fielding with regular updates

LINE-OF-SIGHT TO BEYOND LINE-OF-SIGHT