



T³ Autonomous Systems

Enabling Autonomous Flight and Operations in the National Airspace Workshop 2

Vanessa Aubuchon

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Autonomous Systems Scope



- NASA's aeronautics domain expertise bridges the gap between intelligent systems and civil aviation
 - Applies emerging machine intelligence technologies to aviation applications
 - Applies domain expertise in integrated human-machine operations, airspace management, and aviation safety

T³ Autonomous Systems Goal

Focus on capability gaps in assured autonomy for aviation with targeted, problem-driven R&D in an agile environment

...with an emphasis on enabling safe, efficient, autonomous Urban Air Mobility

Operational Objectives for Aviation Autonomy (not exhaustive)

Remove the need for the current regulatory paradigm that requires a pilot for every passenger aircraft

Achieve an order of magnitude more vehicles than operators

Enable new emerging market pilots to receive certification with order-of-magnitude reductions in training









Recent Accomplishments and Future Activities



FY20 Priority – Select a few targeted, collaborative problems to solve in FY21

Industry & FAA partnerships and collaborations will shape these problems





Collaborating to Transform Aviation



Diverse **teams** are needed to pull off the vision for autonomous aviation

