New Directions
NASA's Airspace Operations and Safety Program

Leighton Quon

Three mega-drivers have emerged that are shaping the future of aviation

Traditional measures of global demand for mobility—economic development, urbanization—are growing rapidly

Severe energy and climate issues create enormous affordability and sustainability challenges

Revolutions in automation, information and communi-cation technologies enable opportunity for safety critical autonomous systems

NASA Aeronautics Research Six Strategic Thrusts

Safe, Efficient Growth in Global Operations

- Enable full NextGen and develop technologies to substantially reduce aircraft safety risks

Innovation in Commercial Supersonic Aircraft

- Achieve a low-boom standard

Ultra-Efficient Commercial Vehicles

- Pioneer technologies for big leaps in efficiency and environmental performance

Transition to Low-Carbon Propulsion

- Characterize drop-in alternative fuels and pioneer low-carbon propulsion technology

Real-Time System-Wide Safety Assurance

- Develop an integrated prototype of a real-time safety monitoring and assurance system

Assured Autonomy for Aviation Transformation

- Develop high impact aviation autonomy applications

What is the Airspace Operations and Safety Program?

This program integrates the Airspace Systems Program and Aviation System-Safety work.