

# Loss of Control Initiatives

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Federal Aviation  
Administration



# Research and Initiatives

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- Develop Certification Criteria for specific Technologies
  - Small Airplane Safety Enhancement Program (SASEP)
- Technologies selected in conjunction with GA-JSC (General Aviation Joint Steering Committee)
- Technologies selected based on feasibility and effectiveness to reduce LOC-i
  - Retrofit Fleet *and* New Aircraft
  - Make Implementable and Affordable

# Selected Technologies

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- Angle of Attack
- Energy State Awareness
- Improved Envelope Protection
- Simple Autopilots and Cockpit Automation
- Enhanced Displays
- Electronic Parachute (Emergency Auto-land)
- Flight Path Trajectory Management
  - Highly Augmented, Manually Flown

# Technology Implementation Example

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- Angle of Attack Sensor and Display
- Streamlined approach
  - 1) Design
    - ASTM standard
  - 2) Production Approval
  - 3) Installation and Calibration



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Developed new policy and guidance

# SUMMARY

- Focused on Implementation of New Technology
  - to help pilot maintain Situational Awareness
  - with new sensors, displays, envelope protection and automation

