

NASA-FAA-NOAA Partnering Strategy

**Weather Accident Prevention
Project Review
June 7, 2001**

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Glenn Research Center

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at Lewis Field



Content

Pros for Inter-Agency Collaborations

Pitfalls in Inter-Agency Collaborations

Partnership 101

Progress to Date

Summary

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Resource Flows in Partnerships

- Pooling Arrangements- Two or more organizations combining similar resources
 - Cost and/or risk sharing
 - Gaining influence of stakeholders
 - Information sharing/benchmarking
 - Standard Setting
- Trading Arrangements: Two or more organizations exchanging dissimilar (but mutually valued) resources
 - Developing synergy through complementary competencies

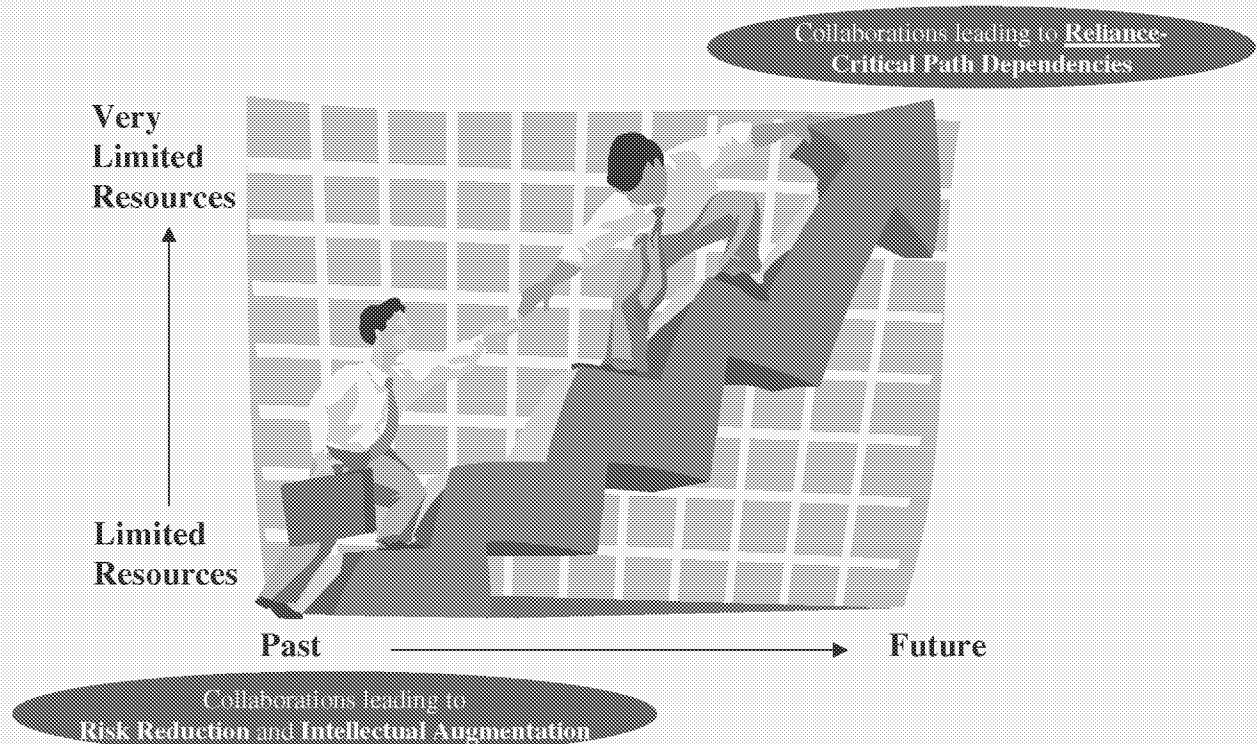
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Higher Level Inter-Agency Collaboration Needed



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What Defines a Good Partner

1. Resources- Do they possess the resources/capabilities we seek?
2. Incentives- Do they have adequate motivation and commitment to the success of the venture/partnership?
3. Cultural/Trust- Does it feel like their business approach fits well with ours?

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Why Partnerships Fail

40-60% of all partnership/alliances fail

1. Environmental Reasons
 - Failure to anticipate changing R&D demands
 - Inability to reconcile macro-cultural issues
2. Strategic Reasons
 - Purpose not clearly articulated
3. Structural Reasons
 - Weak Incentive structure; ill suited for strategic purpose
4. Behavioral Reasons
 - Egos and personal dislike (person versus organization)

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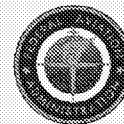
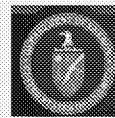
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Current Inter-Agency Collaborative Activities

- **NASA-DOD-DOE Alliance in Propulsion & Power**
 - Completed five “Collaboration Workshops” during the past year
 - Generated detailed roadmaps for collaborative activities in 9 technology areas
- **NASA-Air Force Propulsion Collaboration**
 - Goldin/Peters agreement to increase collaboration
- **NASA GRC-Sandia Labs Collaboration**
 - MOU signed for broad suite of Aero/Space technologies
- **NASA-FAA Alliance under NASA-FAA Umbrella MOUs**
 - Aviation Weather Safety MOA signed
 - Aviation Air Emissions MOA being prepared
 - Accident Mitigation MOA being prepared
- **NASA-Canadian Agencies (CNRC, TC, MSC) Icing Alliance**
 - Aircraft Icing Research Alliance (AIRA) signed to do joint icing research per single strategic plan



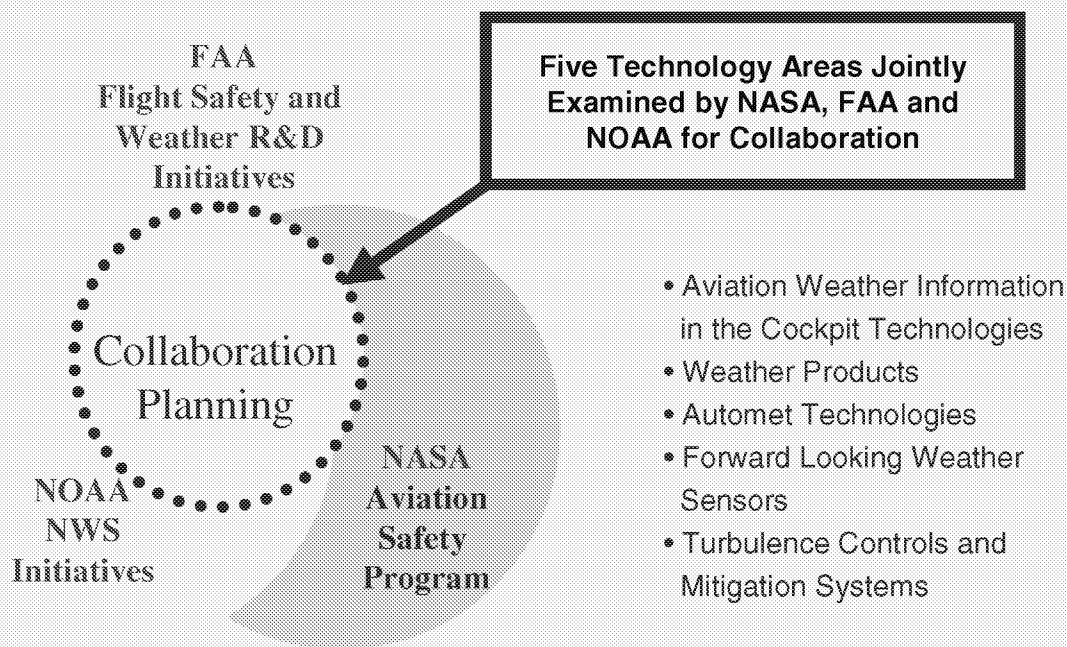
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Partnership Status



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NASA-FAA Partnership

Memorandum of Agreement between NASA and FAA concerning Weather Accident Prevention R&D Activities was signed in June 2000. The MOA states NASA and FAA will jointly develop the following products:

1. Aviation Weather Information Technologies for NAS and users
2. Aviation Weather Products
3. Electronic Pilot Reporting/Automet Technologies
4. Forward-Looking Weather Hazard Sensors
5. Turbulence Controls and Mitigation Systems

This MOA was signed by FAA Associate Administrator of Research and Acquisitions, Air Traffic Services and Regulation and Certification as well as NASA Associate Administrator for Aero-Space Technology

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NASA-NOAA/NWS Partnership

Memorandum of Agreement between NASA and NOAA/NWS concerning Weather Accident Prevention R&D Activities has been drafted and is under review. The MOA states NASA and FAA will jointly develop the following products:

1. Aviation Weather Information Technologies for NAS and users
2. Aviation Weather Products
3. Electronic Pilot Reporting/Automet Technologies
4. Forward-Looking Weather Hazard Sensors

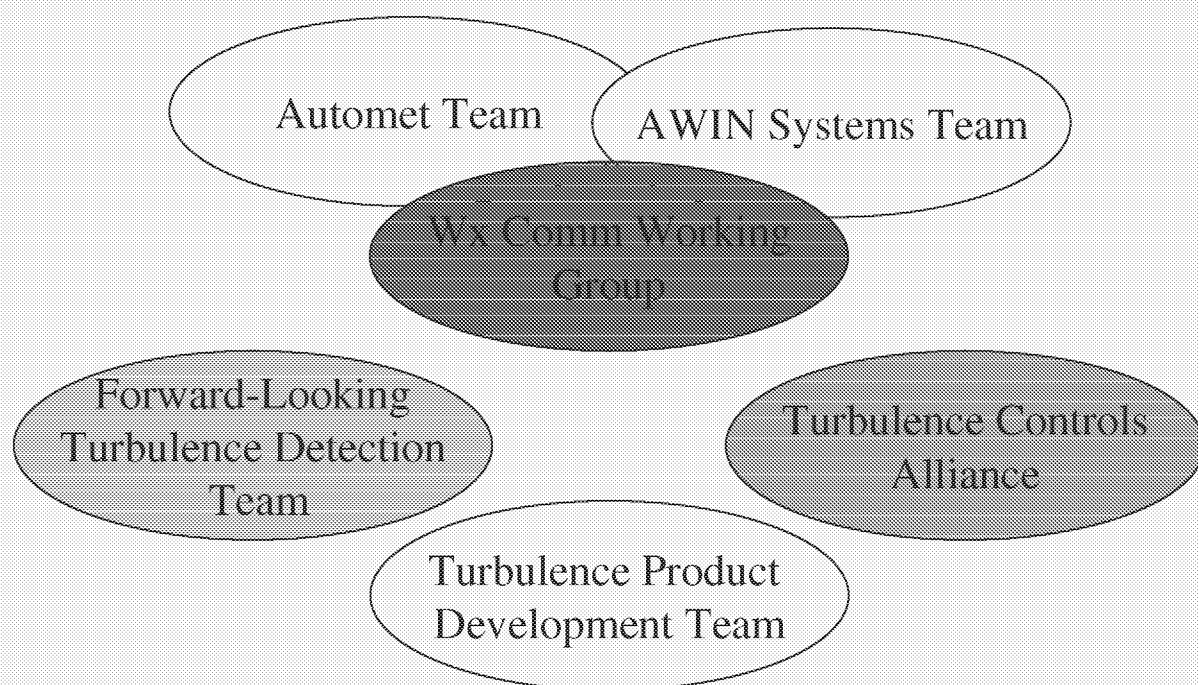
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Proposed FAA-NASA-NOAA Teams



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Summary

- NASA, FAA, NOAA fully endorse the partnership vision and direction.
- Current NASA, FAA and NOAA collaboration activities going well.
- Interagency implementation agreements in progress toward integrating collaboration activities into agency program plans.

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