

# Friends and Partners Meeting Vision for Aviation Weather Policies

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# Agenda

- **Objective of Policy Activity**
- **Make-up of Policy Team**
- **Policy Criteria**
- **Methodology**
  - **Policy Identification**
  - **Policy Analysis**
- **Policy Categories**



# Objective of Policy Activity

**Identify weather policy issues associated with the Next Generation Air Transportation System (NGATS)**

- ensure sound, timely analysis
- recommend solutions to the JPDO.



# Make-up of Policy Team

- Al Kaehn (NOAA)
- Bill Phaneuf (ALPA)
- Dave Metzbower (FAA)
- Jeremy Andrucyk (NWS)
- John Murray (NASA)
- Kevin Johnston (NWS)
- Mark Andrews, IPT Lead
- Nick Stoer (Consultant)
- Richard Deininger (Boeing)
- Ron Colantonio (NASA)
- Steve Green (NASA)
- TBD (ATO Safety)
- TBD (Institute Representative)
- Arnold Lee (IAI)
- Bruce Carmichael (NCAR)
- Gene Wilhelm (CAASD)
- John McCarthy (IPT Co-Chr)
- Ken Leonard (FAA)
- Lisa Bee, Deputy IPT Lead
- Mark Weber (Lincoln)
- Paul Stough (NASA)
- Rick Heuwinkel, Chair (FAA)
- Sadegh Kavoussi (Avmet)
- TBD (Aircraft Cert, FAA)
- TBD (Air Transport, FAA)



# Policy Criteria

- To be considered *policy*, a weather issue must meet *all* of the following criteria:
  - Business Case Plus: Business Case alone is insufficient basis for decision. A judgment call is also needed.
  - High Level: Decision to be made at agencies' Senior Executive level or higher.
  - Strategic: Is significant to the realization of the NGATS



# Methodology--Policy Identification

- **Potential policy issues identified by:**
  - JPDO or WxIPT Leadership
  - Other IPT's in JPDO
  - WxIPT Teams
  - Policy Team
- **Issue Statement developed by author or Policy Team**
- **Assessment of Issue against Policy Criteria**
- **Prioritization of Policy Issues**
- **Policy Analyses Assigned**



# Methodology -- Policy Analysis

- **Statement of issue & how it meets policy criteria**
- **Describe how weather subsystem works today**
- **Identify drivers for change**
- **Identify policy choices**
- **Identify pros and cons of alternatives**
- **Recommendation**



# Policy Categories

- **Government and Private Sector Roles & Responsibilities**
- **Standards**
- **Who Pays for What**
- **Controllers' Roles Re Weather Information**
- **Technical/Operational Service Issues**
- **Interagency Roles & Responsibilities**





# Government & Private Sector Roles & Responsibilities

What will be the government's role in provision of "official" weather information (current and future, three dimensional, digital) to all NAS decision makers in terms of:

- Observations
- Generation of weather information
- Dissemination
- Display design
- Display systems
- Standards for the above



# Standards

- **Consistency**: Assuming continued mixed government and private provision, how do we ensure that weather information available to all decision makers in the NAS is consistent in terms of?
  - Temporal and spatial consistency
  - Intensity of the phenomena
  - Useability of the airspace
- **Regulations & Procedures**: What changes in regulations and procedures are needed to optimize safety and efficiency of operations under NGATS?



# Who Pays for What

- Who pays for in-situ aircraft data?
- Who pays for generation and uplink of weather information to the cockpit?
- Who pays for access costs and communication costs from government ports to end users?



# Controllers' Roles Re Weather Information

- Will controllers assume responsibility for tactical separation of aircraft from hazardous weather?
- Will controllers continue to bear the responsibility for relay of weather information to the cockpit?



# Technical/Operational Issues

- Will the code for digital weather information be BUFR, GRIB, or some other code?
- How long will government continue to produce legacy products and product forms (e.g., alphanumeric descriptions of weather phenomena) after the same information is available in digital format?
- Which weather information will be produced in probabilistic terms and how will it be phased in?



# Interagency Roles & Responsibilities

- How will interagency weather R&D be managed for efficiency and rapid implementation?
- Which agency(ies) will develop, manage, and maintain the 4D weather information network?



