2nd National Aeronautics R&D and Infrastructure Plans Outreach Meeting

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11 July 2007

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Aeronautics S&T Subcommittee (ASTS)
Committee on Technology
National Science and Technology Council (NSTC)

- **2:00 – 2:20: Brief Review of National Aeronautics R&D Policy and Executive Order**

  Review of Strategy for the Development of the R&D and Infrastructure Plans

  Private Sector interactions with the NSTC
- **2:20 – 2:30: General Q&A**
- **2:35 – 4:15: Coordinating Group Sessions**
- **4:15 – 4:30: Wrap up**

Overview

- **Review of the National Aeronautics R&D Policy and Executive Order 13419**
- **Review of the Strategy for Development of the National Aeronautics R&D and Infrastructure Plans**
- **Private Sector interactions with the NSTC**

NSTC Aeronautics S&T Subcommittee

- **Created Sept. 2005**
- **Membership:**
  - **OSTP/NASA (Co-Chairs)**
  - **Department of Defense**
  - **Department of Transportation**
  - **Department of Commerce**
  - **Department of Energy**
  - **Department of Homeland Security**
  - **National Science Foundation**
  - **Department of State**
  - **US International Trade Commission**
  - **Executive Office of the President**
- **Outreach to Academia, Industry, and Aviation User Community in Spring 2006**
- **Final approval of Policy and EO December 20, 2006**

Overview: National Aeronautics R&D Policy

- Establishes Principles
- Sets Policy Goal and Objectives
- Creates General Guidelines for Federal Government
- Establishes Specific Guidelines
- Implementation Guidelines

Policy Goal

"Advance U.S. technological leadership in aeronautics by fostering a vibrant and dynamic aeronautics R&D community that includes government, industry, and academia."

Policy Principles

1. ***Mobility*** **through the air is vital to economic stability, growth, and security as a nation**
2. **Aviation is vital to *national security* and *homeland defense***
3. **Aviation *safety* is paramount**
4. ***Security*** **of and within the aeronautics enterprise must be maintained**
5. **The US should continue to possess, rely on, and develop its world-class aeronautics *workforce***
6. **Assuring *energy availability* and *efficiency* is central to the growth of the aeronautics enterprise**
7. **The *environment* must be protected while sustaining growth in air transportation**

Policy Guidelines

- **General:**
  - Role of the Federal Gov. in Aeronautics R&D
  - Aeronautics Workforce
  - Academic Cooperation
  - Commercial Cooperation
  - International Relations
- **Specific:**
  - Stable and Long-term Foundational Research
  - Advanced Aircraft Systems Development
  - Air Transportation Management Systems
  - National RDT&E Infrastructure

Policy and EO Implementation Guidelines

- **National Aeronautics R&D Plan**
  - **Priorities and objectives, roadmaps, timelines**
- **Aeronautics RDT&E Infrastructure Plan**
- **Engagement with non-Federal stakeholders**
- **Dissemination of R&D results**
- **Other innovative policies and approaches that complement and enhance Federal activities**
- **Biennial review procedure**

Strategy for Development of Plans – Development of R&D Coordinating Groups

- **Mobility**
  - **JPDO, NASA**
- **National Security and Homeland Defense**
  - **DOD**
- **Aviation Safety**
  - **FAA, NASA**
- **Aviation Security**
  - **DHS**
- **Energy and Environment**
  - **DOD, DOE, FAA**
- **RDT&E Infrastructure**
  - **DOD, NASA**

Contents of National Aero R&D Plan

- State-of-the-art of each Principle - where we are as a Nation today
- Top-level prioritized National aeronautics R&D goals and objectives (including numerical targets if appropriate) by timeline - where we want to go as a Nation
  - Near-term (5 years)
  - Mid-term (5-10 years)
  - Far-term (>10 years)
- Summarize R&D activities and develop top-level timelines - how we get there
- Identify significant gaps and/or unnecessary duplication
- Identify multi-disciplinary cross-cutting areas of aeronautics R&D

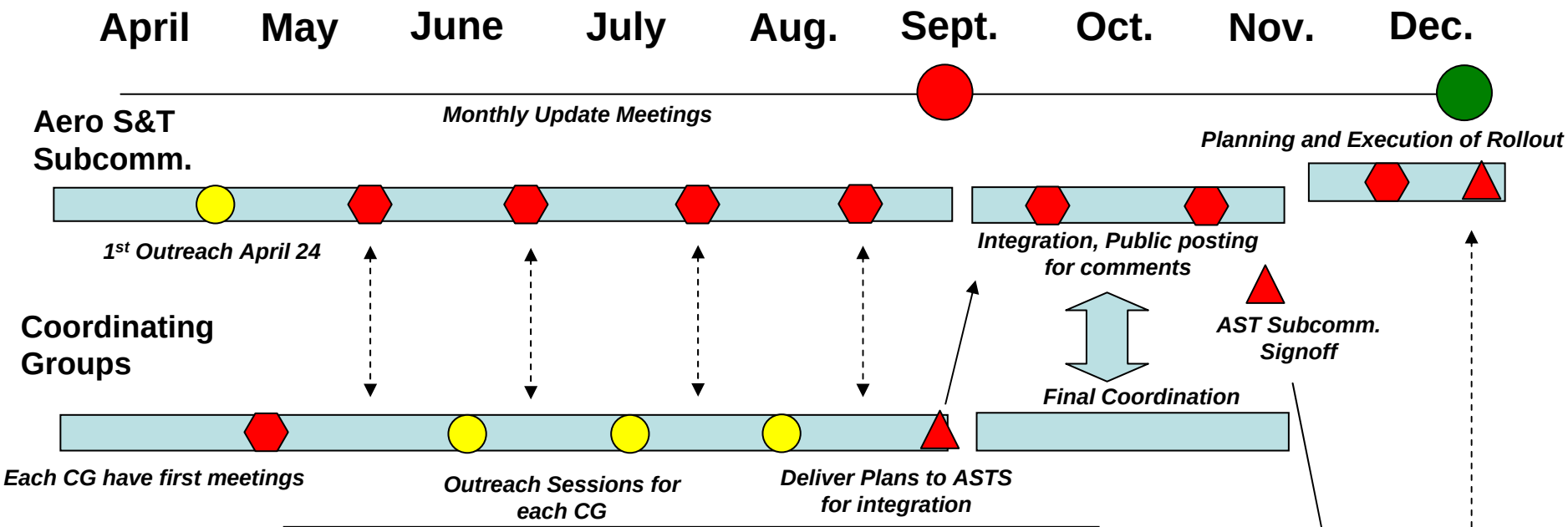
Contents of RDT&E Infrastructure Plan

- How to develop consistent cost and usage policies?
- What RDT&E assets are “critical from a national perspective”?
- How to develop and implement measures to improve coordination of user needs across the US Government and the broader user community?
- How to define an “approach for constructing, maintaining, modifying, or terminating” RDT&E assets?

National Aeronautics R&D Plan Timeline - 2007

Coord. Groups "finished" – NLT Sept. 3

Final Release – NLT Dec. 30



3 NSTC Outreach Sessions:
- **April 24, National Academy of Sciences, Wash., DC**
- **July 11, Joint Propulsion Conference, Cincinnati, OH**
- **July 30, NASA Ames Research Center**

NSTC Public Meeting Guidelines

- **FACA Applies to**
  - **Meetings between Government & Non-Government Personnel**
  - **Where there is a Cohesive Group Structure under Agency Control**
  - **Resulting in Group Consensus**
  - **Regarding Specific Advice on Policy**
- **Official Charter, Membership Requirements, Noticed & Open Meetings, And Other Regulatory Requirements**

General Meeting Format

- **Informal Structure, Ad Hoc Basis, Meetings called as necessary by Subcommittee Working Groups**
- **Open to the Public, No strict Membership**
- **Meetings will be Noticed in the Federal Register & the Subcommittee Website**
- **Opportunity for the Subcommittee to Provide the Public with Information on its Progress**
- **Public to Provide Facts and Information Relevant to the Development of an R&D Policy**

General Meeting Format (cont.)

- **These meetings will NOT be:**
  - **Drafting sessions**
  - **Opportunities for Government and the Public to agree on Specific Policies**

White Paper Submissions

- **1-3 pages**
- **Final deadline: August 17, 2007**
- **Submit to:**
  - **Mobility: aero.mobility@ostp.gov**
  - **National Security and Homeland Defense: aero.defense@ostp.gov**
  - **Aviation Safety: aero.safety@ostp.gov**
  - **Aviation Security: aero.security@ostp.gov**
  - **Energy and Environment: aero.energy-environment@ostp.gov**
  - **RDT&E Infrastructure: aero.infrastructure@ostp.gov**

www.ostp.gov/nstc/aeroplans