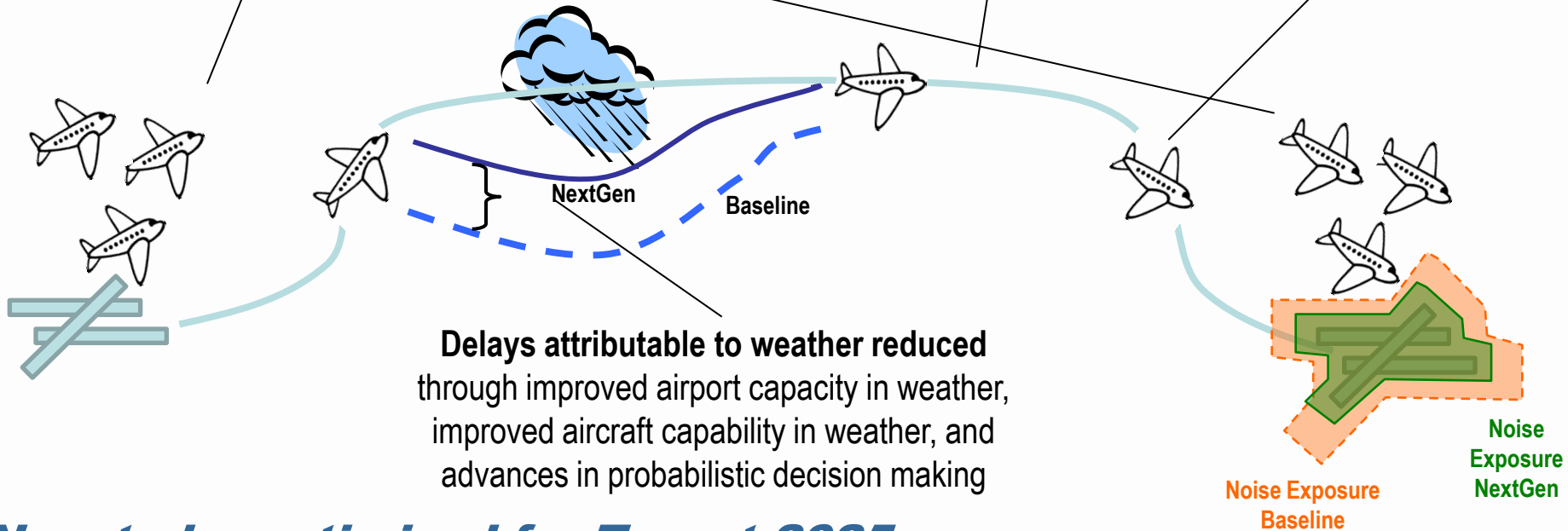


NextGen Performance Benefits

Through High Density Operations, new runways, and other operational improvements, airport capacities increased, allowing **increased throughput** while maintaining reasonable Demand/Capacity ratios

Through Trajectory Based Operations, satellite navigation, data communications, and other operational improvements, **en route capacities increased**

Future individual aircraft (airframes, engines) and ATC exhibit:
Noise reduction
Reduction in fuel burn
Reduction in emissions



Now to be optimized for Target 2025



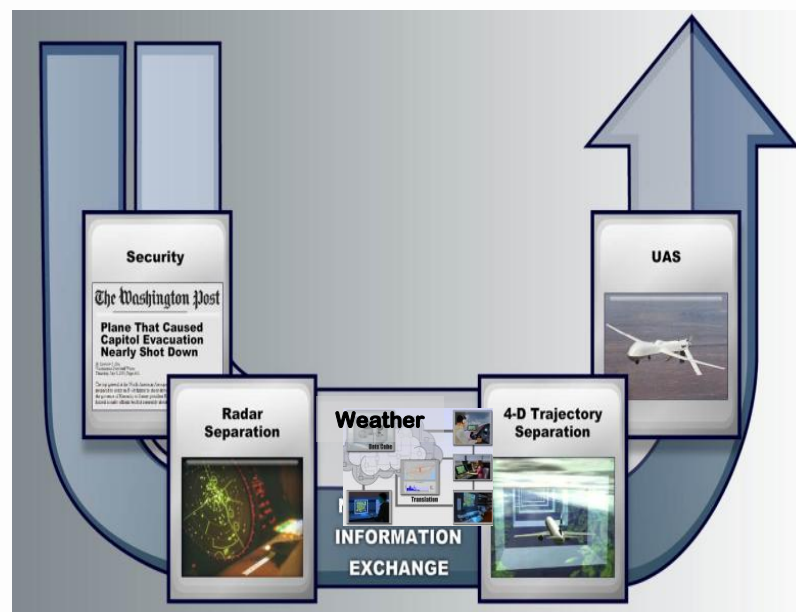
- Foster collaboration among Federal partners
- Enable high level discussion & decision making
- Coordinate with the international community
- Major accomplishments (FY11)
 - Definition of “optimized” NextGen Target 2025
 - Unmanned Aircraft Systems (UAS) RD&D Roadmap
 - Integrated Surveillance ConOps (for common air picture)
 - Via NextGen Information Sharing Environment
 - Continued Global Harmonization...work seamlessly with other global aviation systems

Work the details to the vision ... but collaborate to get there!



JPDO FY12

- Proposed Flagship Products
 - UAS integration feasibility studies
 - NextGen Information Sharing Environment (NISE) development ...interagency collaboration in the NETE*
- Ongoing and new efforts (resources permitting)
 - Integrated Surveillance
 - TBO Roadmap and TBO Safety Case
 - Future AOC/FOC
 - Global Harmonization



* Net-Enabled Test Environment

Vision 100

- “The Secretary of Transportation shall establish in the Federal Aviation Administration a joint planning and development office to manage work related to the Next Generation Air Transportation System.” Responsibilities shall include:
 - Create and carry out a plan for NextGen
 - Oversee R&D and create a transition plan for that system
 - **Coordinate goals and priorities** and coordinate research activities within the Federal Government with United States aviation and aeronautical firms
 - Facilitate transfer of technology from research programs to Federal agencies with operational responsibilities and to the private sector
 - Review activities relating to **noise, emissions, fuel consumption, and safety** conducted by Federal agencies
- “The Office shall **consult with the public** and ensure the participation of experts from the private sector including representatives of commercial aviation, general aviation, aviation labor groups, aviation research and development entities, aircraft and air traffic control suppliers, and the space industry.”



NextGen Stakeholders and JPDO

JPDO Mission: develop framework for NextGen planning and development, identify and prioritize key multi-agency concerns, and drive consensus in investment choices and decisions.



Department of Transportation (DOT)



Department of Defense (DoD)



Department of Homeland Security (DHS)



Department of Commerce (DOC)



Federal Aviation Administration (FAA)



National Aeronautics and Space Administration (NASA)



White House Office of Science and Technology Policy (OSTP)



Office of the Director of National Intelligence (ODNI) (*ex officio*)



JPDO Working Group Co-Chairs

Aircraft

Steve VanTrees, FAA
Frank Alexander, Aviation System Consulting Services, LLC

Airports

Benito DeLeon, FAA
Tom Browne, TJB Aviation

Air Navigation Services

James Wetherly, FAA
Bob Beard, CSC

Environment

Lourdes Maurice, FAA
Betty Hawkins, ATA

Global Harmonization

Kevin Chamness, FAA
Mike Marsili, Apptis

Net-Centric Operations

Ken Laclair, DoD(AF)
David Sweet, Boeing

Safety

Jay Pardee, FAA
Mike McKelvey, Boeing

Security

TBD, TSA
Paul Druckman, Adayana

Weather

Mark Zettlemyer, NOAA
Steve Brown, NBAA

NextGen Institute

Mike Garvin, NGI

Access to SMEs to work issues

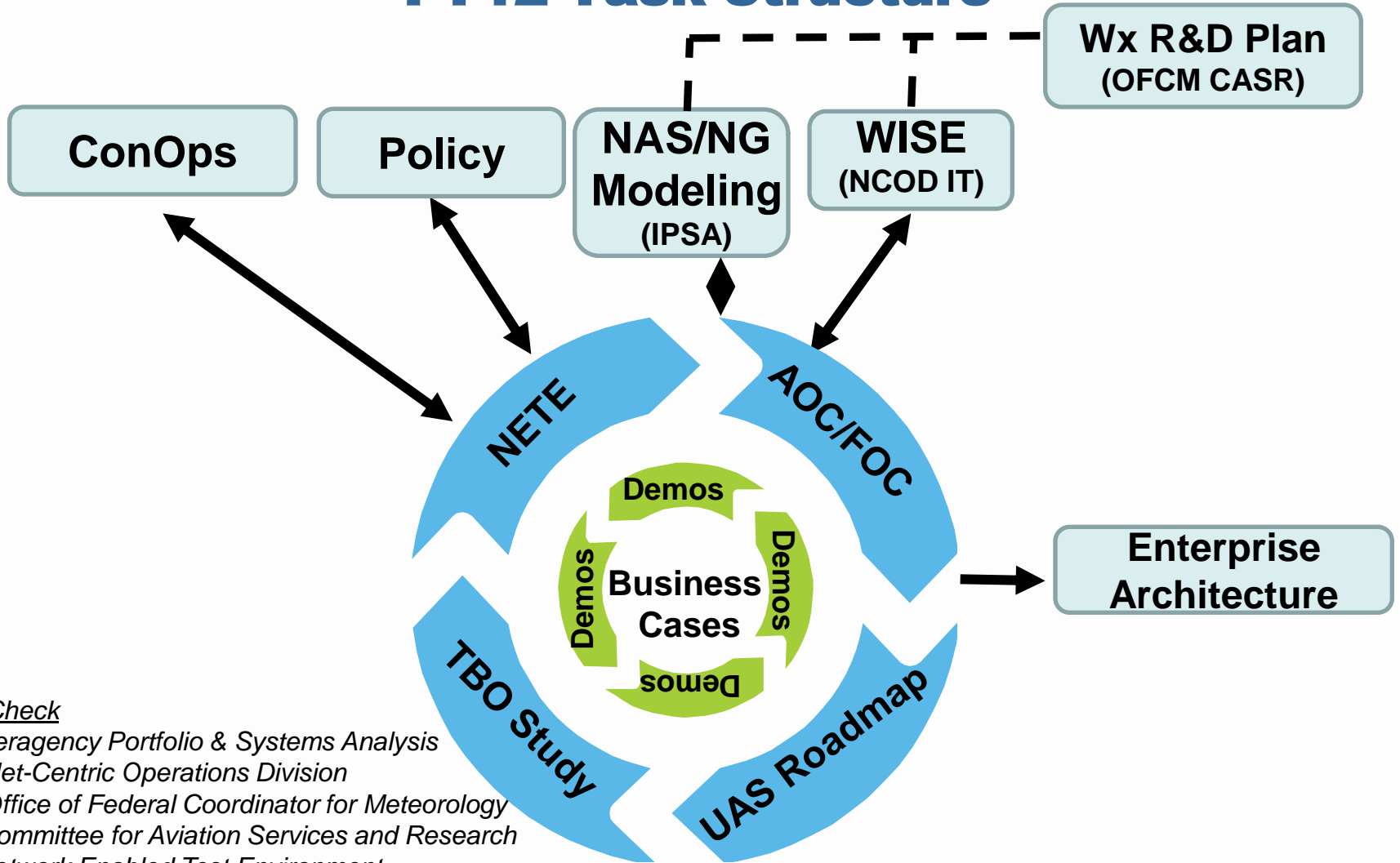


NextGen Weather Concept

- Integrated and consistent common weather data picture for observation, analysis, and forecast available to all system users
- Net-centric (net-enabled) capability that:
 - Makes accurate information available, securable, and usable in real time
 - Pushes information to known users and is discoverable by others
- “Virtual” distributed repository
- Integration of weather information into operational decision-making



Wx Working Group FY12 Task Structure



Acronym Check

IPSA = Interagency Portfolio & Systems Analysis

NCOD = Net-Centric Operations Division

OFCM = Office of Federal Coordinator for Meteorology

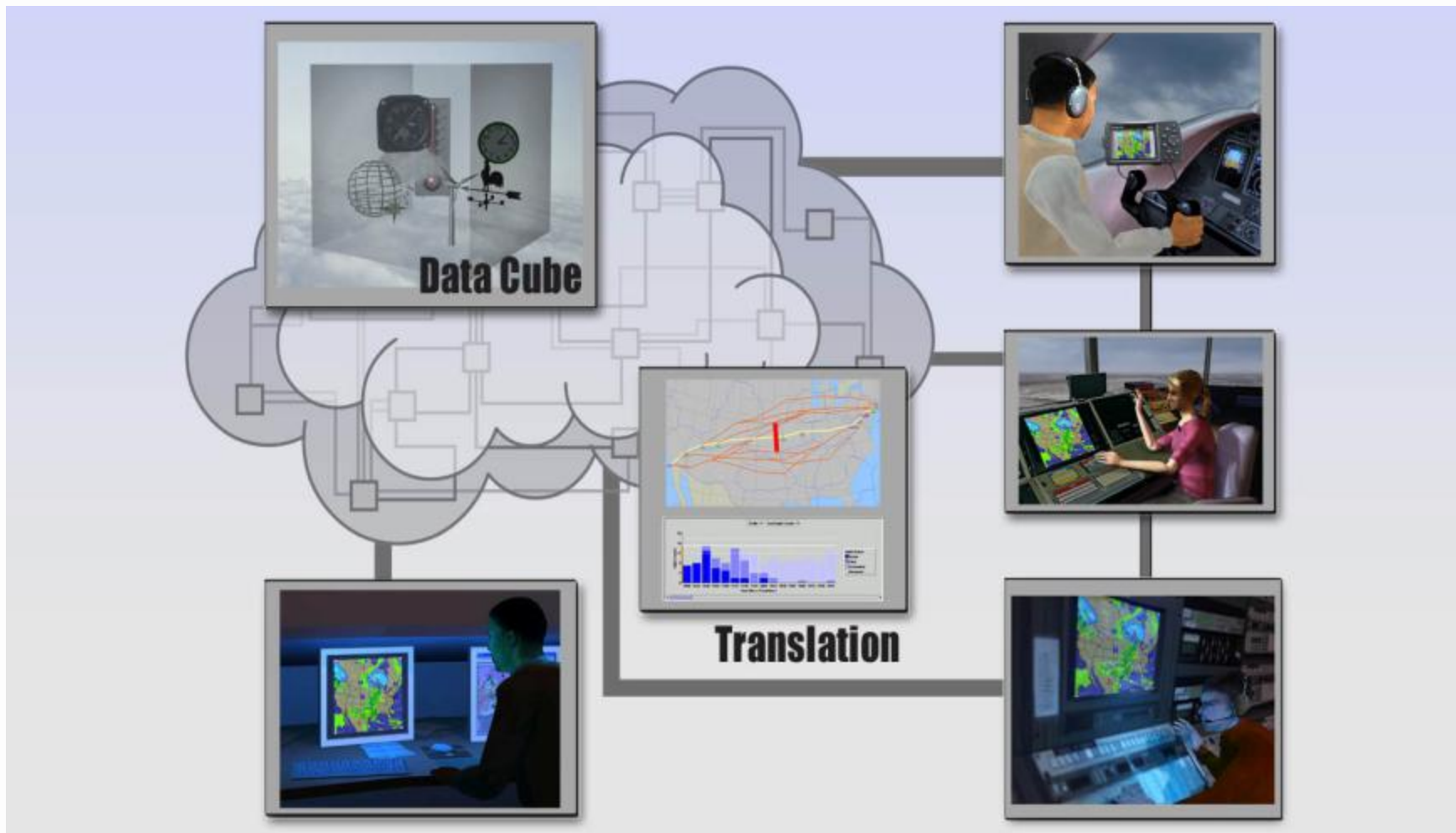
CASR = Committee for Aviation Services and Research

NETE = Network Enabled Test Environment

WISE = Weather in the (NextGen) Information Sharing Environment



NextGen Weather



NextGen Weather

Mark Zettlemoyer

NWS/JPDO

mark.zettlemoyer@noaa.gov

(202) 220-3477

