

JPDO Update

Aeronautics and Space Engineering Board

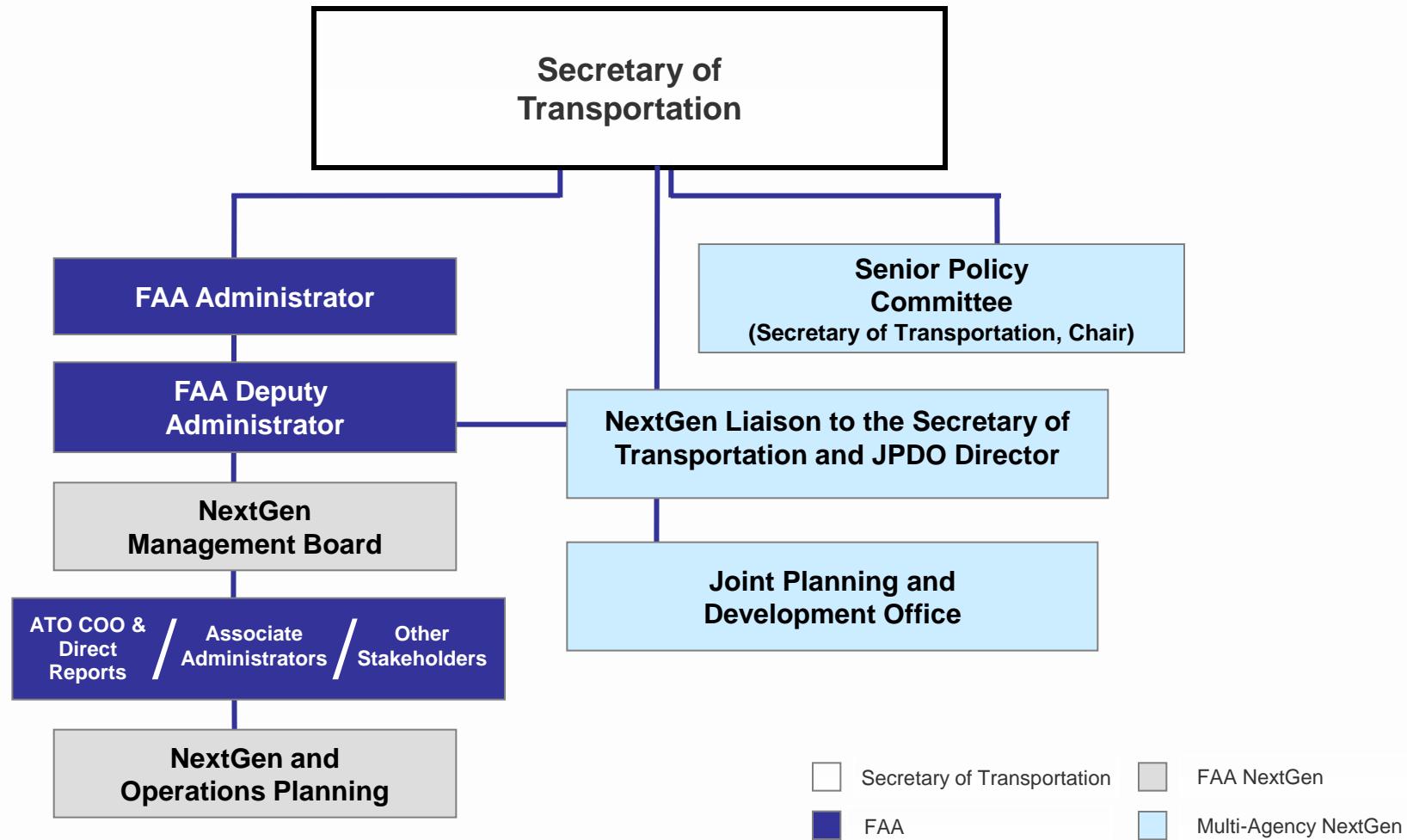
Dr. Karlin Toner

Director, Joint Planning and Development Office
April 5, 2011

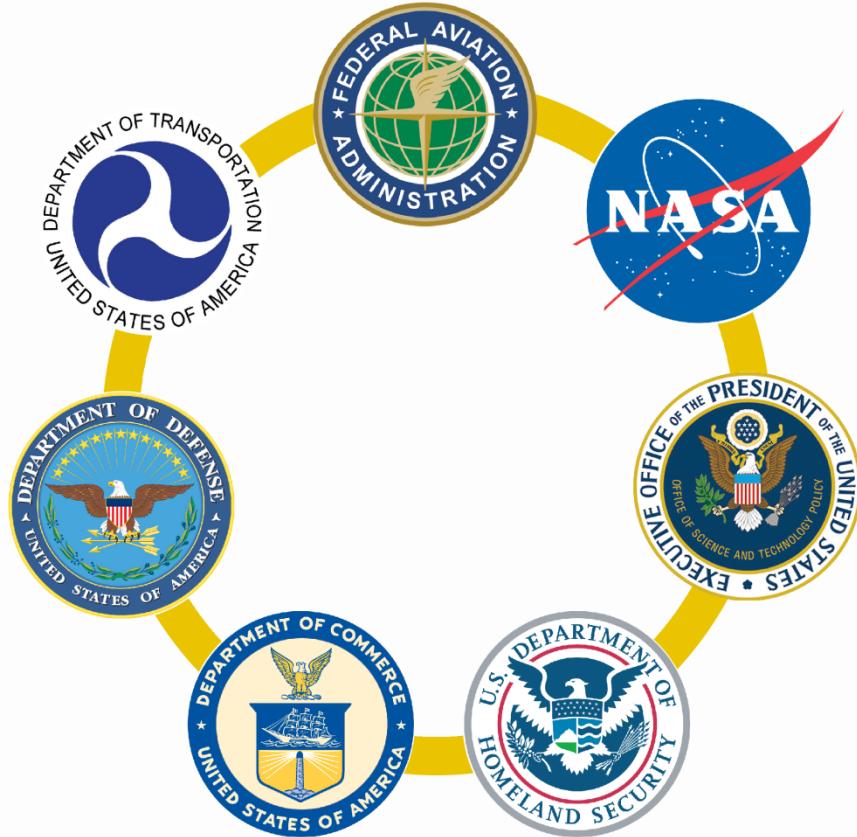
Objectives

- Provide an update on the JPDO reporting structure and organization
- Review changes in priorities and planning activities
- Discuss several underlying research issues for NextGen

NextGen Leadership

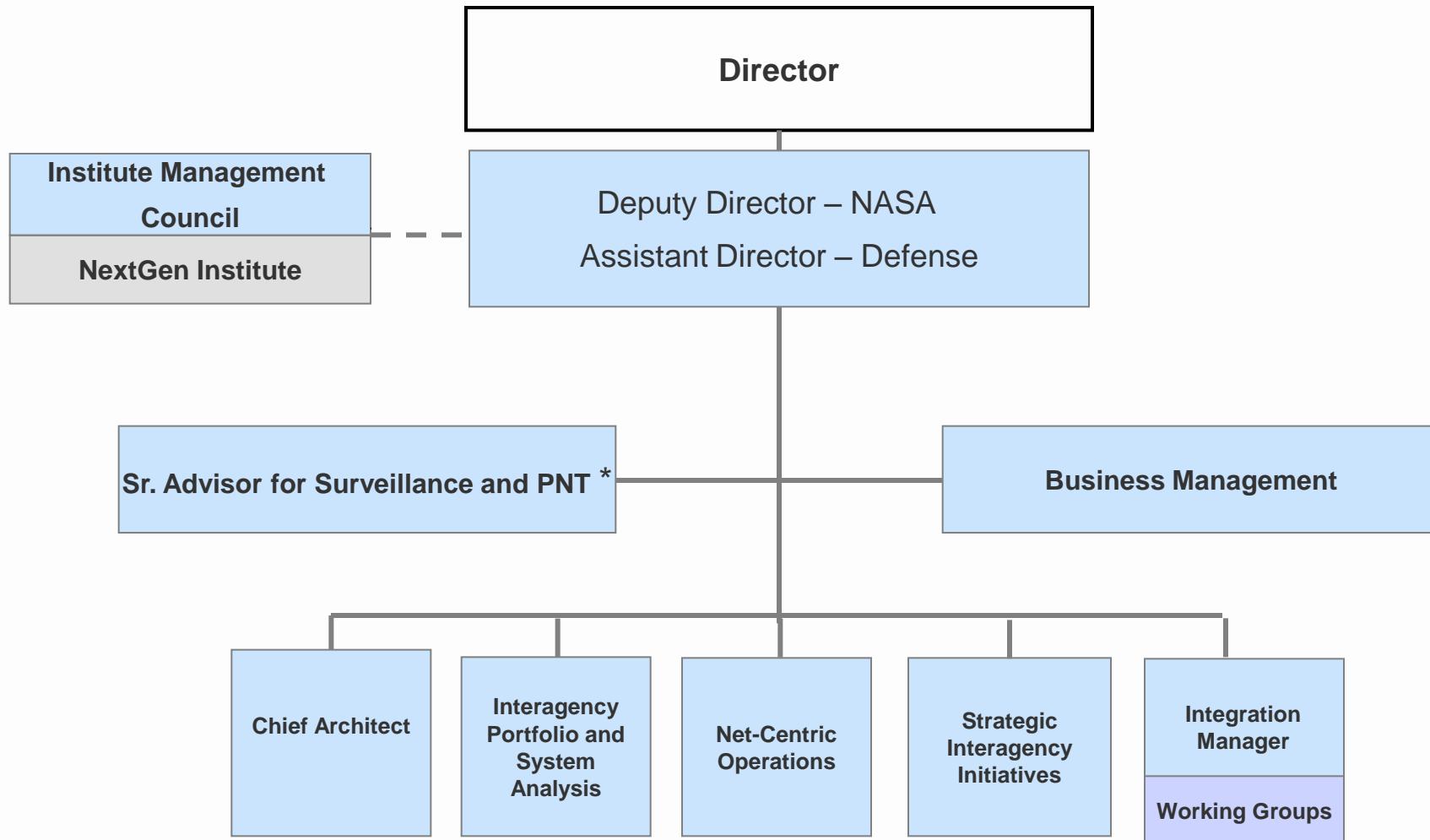


Interagency Collaboration



- Provide a forum for partner agency engagement
- Synchronize long-range research with mid-term implementation path
- Facilitate and coordinate change
- Engage industry via the NextGen Institute

JPDO Organization Chart



2011 Priority Areas

- Define an optimal NextGen 2025 given current data/conditions and risk analysis
 - Prioritize required research and policy analysis to achieve that definition
- Champion the NextGen vision
 - Frame the debate and facilitate decision making to achieve advanced NextGen capabilities beyond 2025
- Accelerate Net-Enabled Aviation System Operations to achieve greater data-sharing efficiencies

Define an “Optimal” NextGen 2025

- Targeted Capabilities for 2025
- Integrated Surveillance (IS)
- Flight Prioritization
- Global Harmonization Roadmap

Champion the NextGen Vision

- Trajectory-Based Operations (TBO) Roadmap
- TBO Safety Case Planning
- Unmanned Aircraft Systems (UAS) Research, Development, and Demonstration Interagency Roadmap
- Airline and Flight Operation Center
- Avionics Roadmap Version 2.0

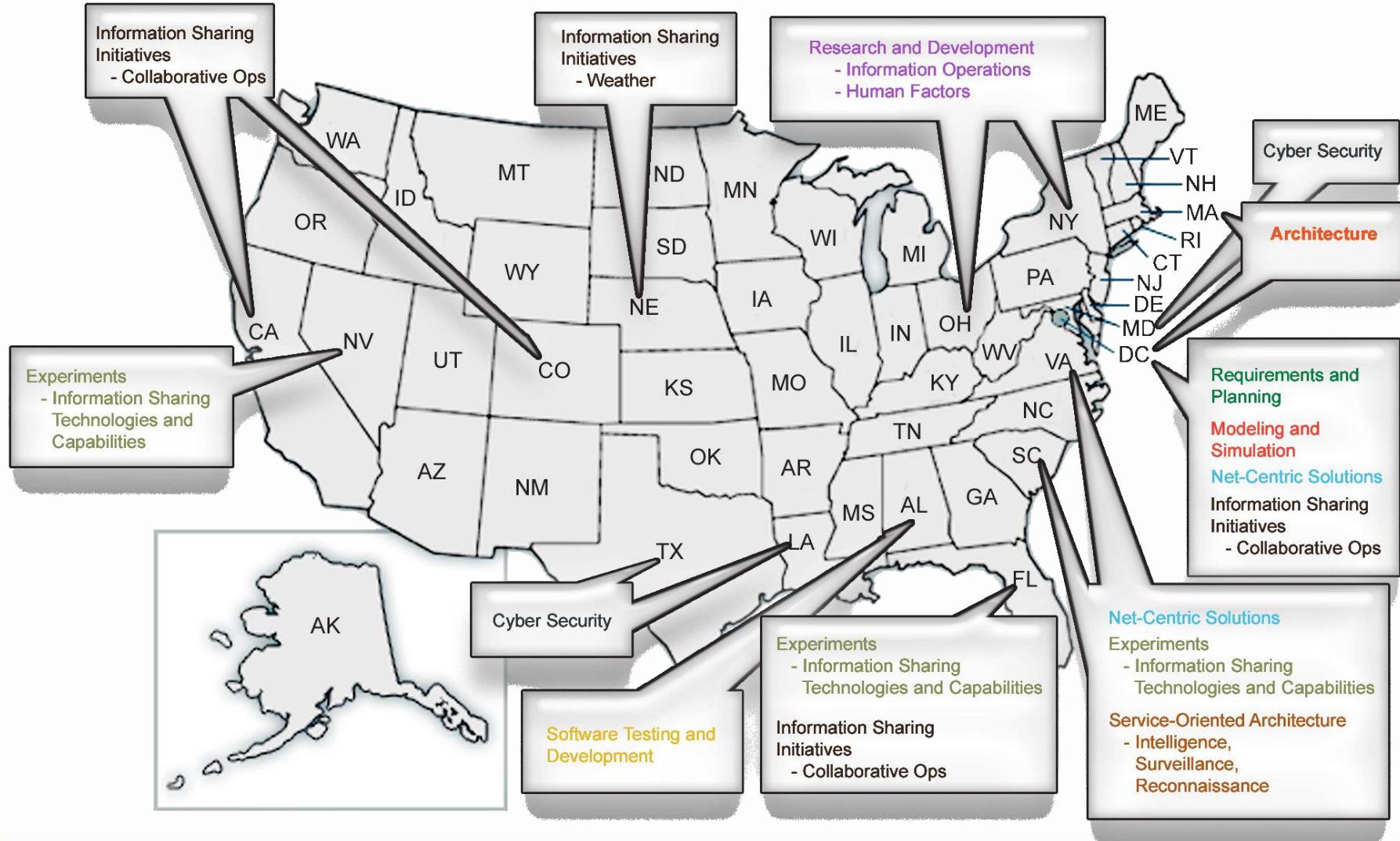
Unmanned Aircraft Systems (UAS)



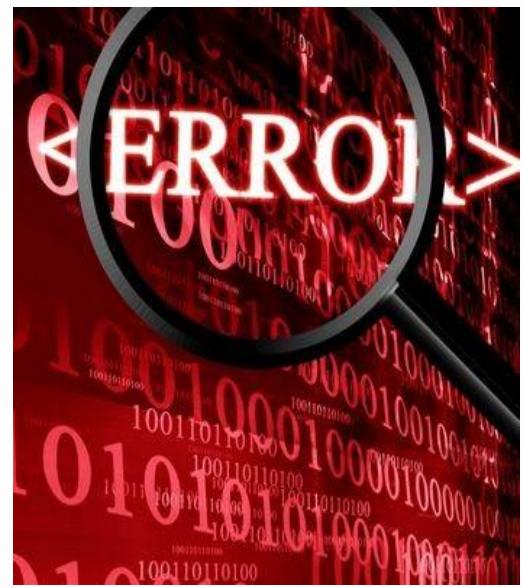
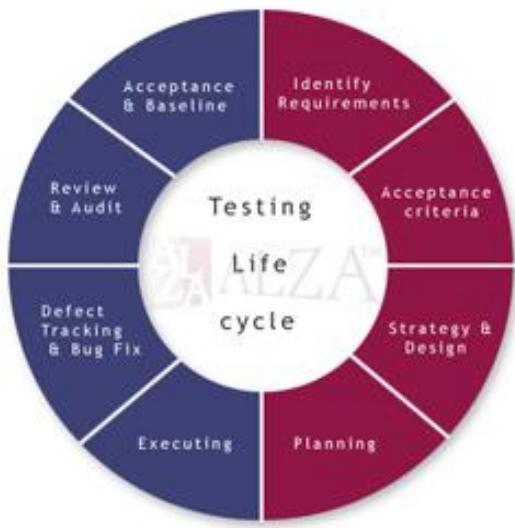
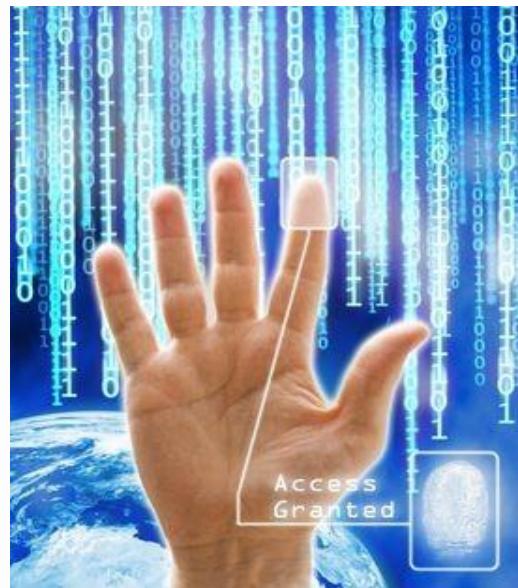
Net-Enabled System Operations

- Information Exchange Architecture and Process
 - Weather
 - Integrated Surveillance
 - Unmanned Aircraft Systems
- Cyber Security

Net-Centric Technology Transfer Opportunities



Verification and Validation

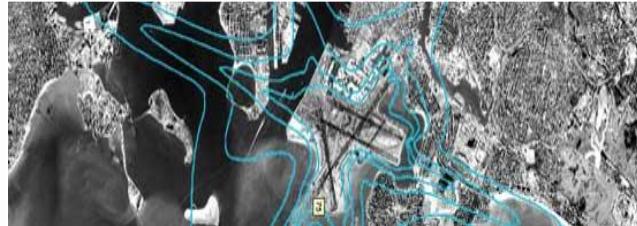


Human Factors



Aviation Environmental Issues

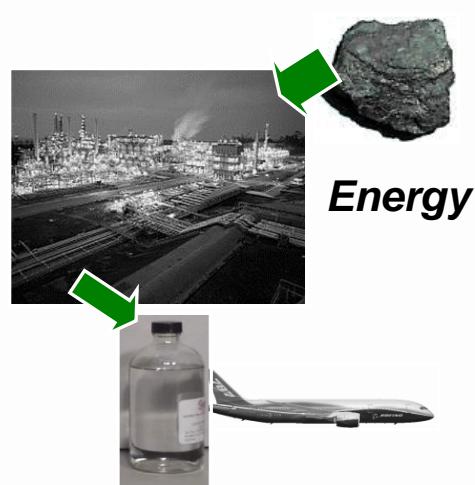
Community Noise Impacts



Air Quality

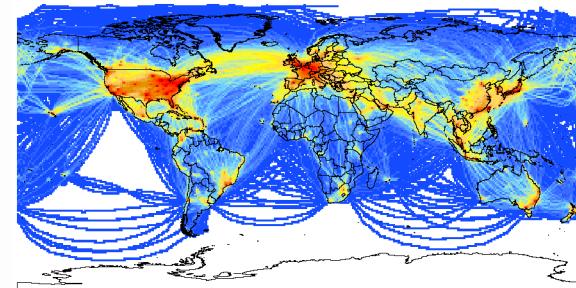


Water Quality



Energy

Global Climate



Discussion