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ENVIRONMENT



Overview of FAA Alternative Jet Fuel Efforts

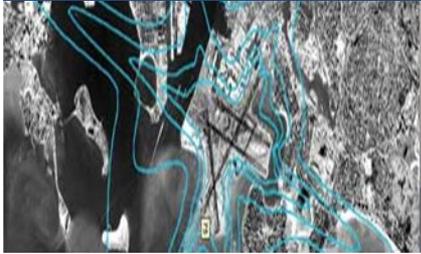
Federal Aviation Administration's (FAA) Office of Environment and Energy (AEE)

Dr. Lourdes Maurice



Aviation Environmental Challenges

NOISE



AIR QUALITY



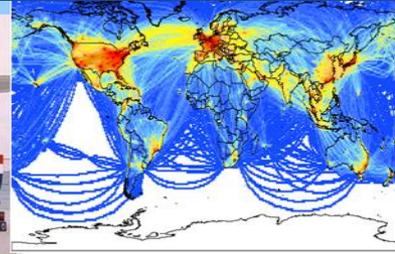
WATER QUALITY



ENERGY



GLOBAL CLIMATE



- Aviation impacts community noise, air quality, water quality, energy usage, and climate change
- Environmental impacts from aviation emissions could pose a critical constraint on capacity growth
- Alternative jet fuels could reduce the environmental impact of aviation:
 - Carbon neutral growth by 2020 compared to 2005
 - 1 billion gallons of renewable jet fuel in use by aviation by 2018



Alternative Fuels Principles – FAA view

- Alternative Jet Fuels must be “drop-in”, have equivalent safety and better environmental performance than petroleum Jet fuel
- Government role to address key barriers
- Enable all possible fuels that meet criteria
- Work through Public-Private Partnerships
- Address the whole supply chain
- Leverage expertise and programs of other States
- Aviation should be a lead user of alternative fuels



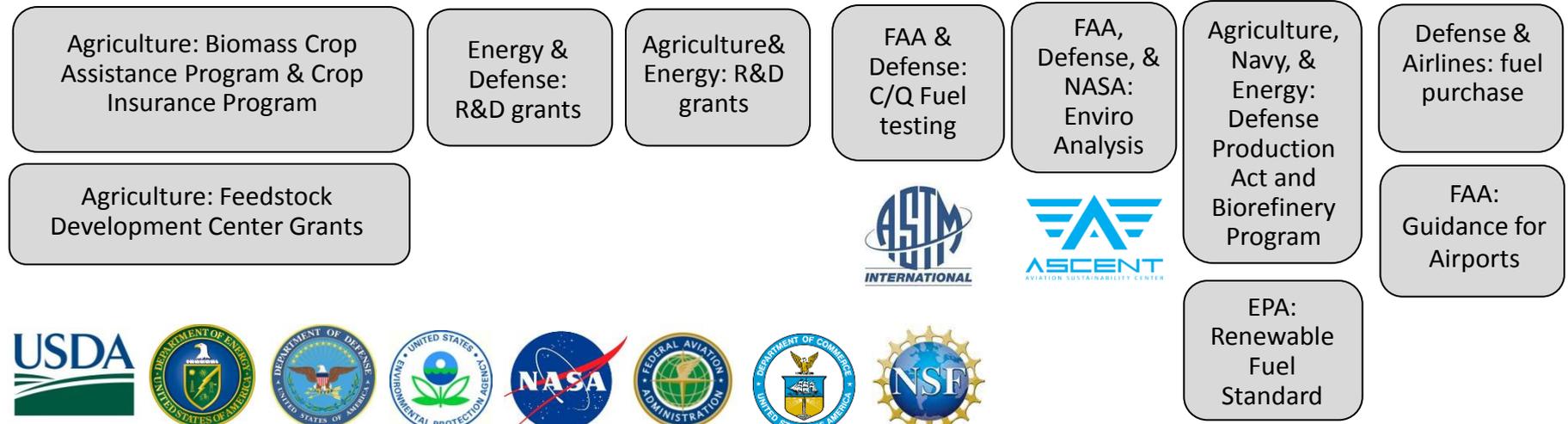
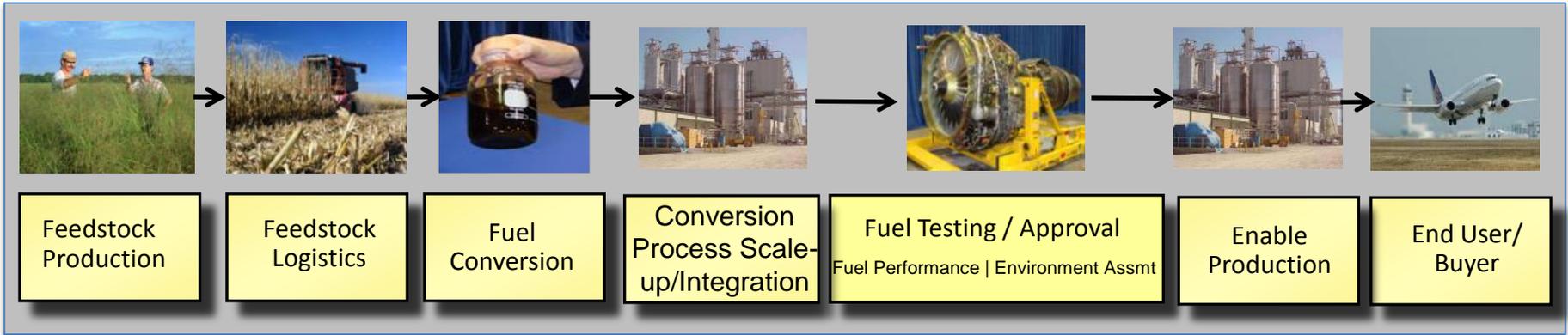
Current FAA Alternative Jet Fuel Activities

- Testing
 - Material compatibility
 - Certification / Qualification
 - Emissions measurements
- Analysis
 - Environmental sustainability
 - Techno-economic analysis
 - Future scenarios
- Coordination
 - Interagency
 - Public-Private
 - State & Regional
 - International





Coordinating Agency Efforts across Supply Chain Facilitating Deployment and Investment



Commercial Aviation Alternative Fuels Initiative

- **Public-Private coalition for commercial aviation to engage the emerging alternative fuels industry**
- **Coordinate development of alt jet fuels:**
 - Equivalent safety/performance (drop-in)
 - Comparable cost
 - Environmental improvement
 - Security of Energy supply
- **Four teams for key issues:**
 - Environment Team
 - Certification-Qualification Team
 - R&D Team
 - Business Team
- **State and Regional Support**
- **International Cooperation**

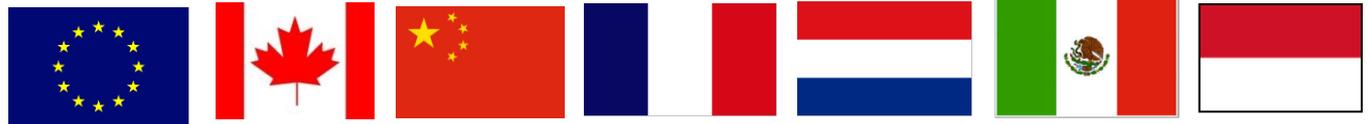


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International Engagement

- Bilateral Cooperation Agreements
- Coordination with counterparts, and R&D organizations
- U.N. International Civil Aviation Organization



Summary

- Advancing use of alternative jet fuels is key for meeting U.S. environmental goals
- Testing efforts accelerate alt fuel technology development
- Analysis efforts improve environmental impacts quantification and decision-making
- Coordination among government agencies and across the supply chain is key to deployment
- Partnership between government & industry vital to success
- Global engagement will support sector goals





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Thank You

