

# Sustainable Alternative Jet Fuels

## Dimensions of Partnership & Cooperation

ICAO Sustainable Aviation Fuels Workshop

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Federal Aviation  
Administration



# Outline

- **FAA public-private partnerships**
- **U.S. government inter-agency cooperation**
- **Local, Municipal, State and Regional partnerships**
- **International cooperative partnerships**



# FAA public private partnerships

Working together to leverage resources

## CAAFI

- FAA and industry sponsored



## • CLEEN

- Continuous Lower Energy Emissions and Noise Technology program
- Cost sharing 1:1 with industry



## • PARTNER

- Partnership for Aviation Noise & Emissions Reduction
- Grants for university research with 1:1 cost share



# U.S. Inter-Agency Cooperation

## Cooperation at many levels

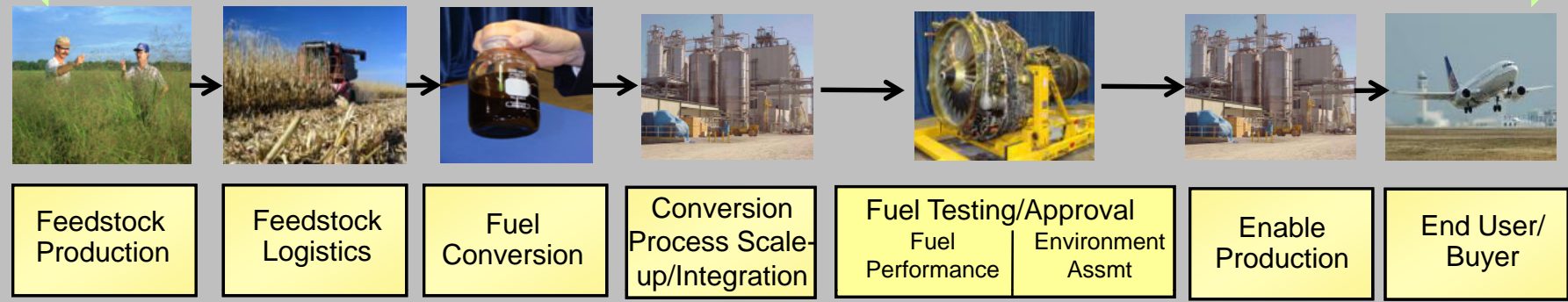
- **Informal working groups**
  - e.g. Interagency working group on Alternative fuels
  - e.g. NASA-FAA staff level collaboration
- **Chartered Coordinating groups**
  - e.g. Biomass Research & Development Board
  - e.g. White House Office of Science & Technology Policy's Aeronautics Subcommittee
- **Memoranda of Understanding (MOU)**
  - e.g. Agriculture-FAA MOU on feedstock development
  - e.g. Energy-Defense MOU on clean energy



# U.S. Agency Complementary Investments across the Alternative Jet Fuel Supply Chain

**DRAFT**

Economic and environmental sustainability analysis across entire supply chain

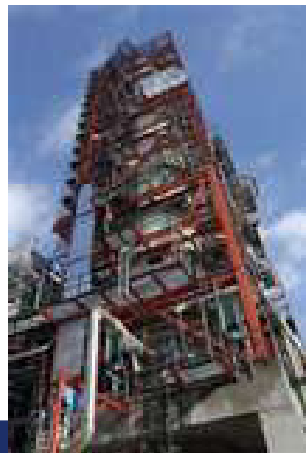
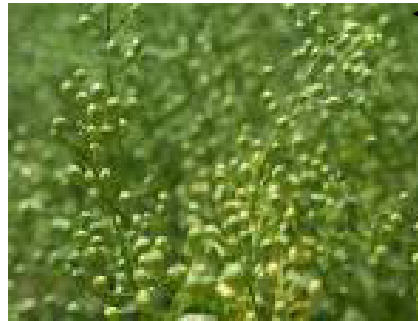


Agriculture	✓	✓	✓	✓			✓	
Commerce							✓	
Energy	All links in the chain are being addressed							
Defense								
EPA						✓	✓	
FAA					✓	✓		✓
NASA					✓	✓		



# Local, State, Municipal & Regional Efforts

## Efforts to develop supply chains & speed production with diverse structures & partners



- |              |                |
|--------------|----------------|
| Arizona      | Ohio**         |
| California*  | New York**     |
| Florida      | Pennsylvania** |
| Georgia      | Oklahoma       |
| Hawaii**     | Tennessee**    |
| Illinois     | Texas**        |
| Louisiana*   | Washington*    |
| Michigan**   | Wisconsin      |
| Mississippi* |                |

\* airline/producer MOU's

\*\* study proposals or Pilot Plants



# International Partnerships

## Global efforts on feedstocks, qualification testing & environmental analysis

- **Informal**
  - e.g. regular interaction with counterpart agencies
  - Links between CAAFI and similar international efforts
- **Formal Cooperation Agreements**
  - U.S. – Australia MOU on Sustainable Aviation Alternative Fuels Development (September 2011)
  - U.S. – Brazil Partnership for the Development of Aviation Biofuels (March 2011)
  - Additional agreements under discussion



# Summary

**Partnerships are important to:**

- **Address the whole supply chain -- broad array of stakeholders need to be involved**
- **Leverage each other's expertise & funding**
- **Coordinate efforts and avoid duplication**
- **Public-Private Partnerships -- ensure that industry helps drive**

