

Sustainable Aviation Fuels Defining and Implementing the Next Steps”

ICAO SUSTAF Workshop
October 18, 2011

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Executive Director,
Commercial Aviation Alternative
Fuels Initiative (CAAFI)



www.caafi.org

CAAFI And Sustainable Aviation Fuels

- Mission, Members, Operating Approach
- Aviation Now U.S. Green BioFuels Leader!

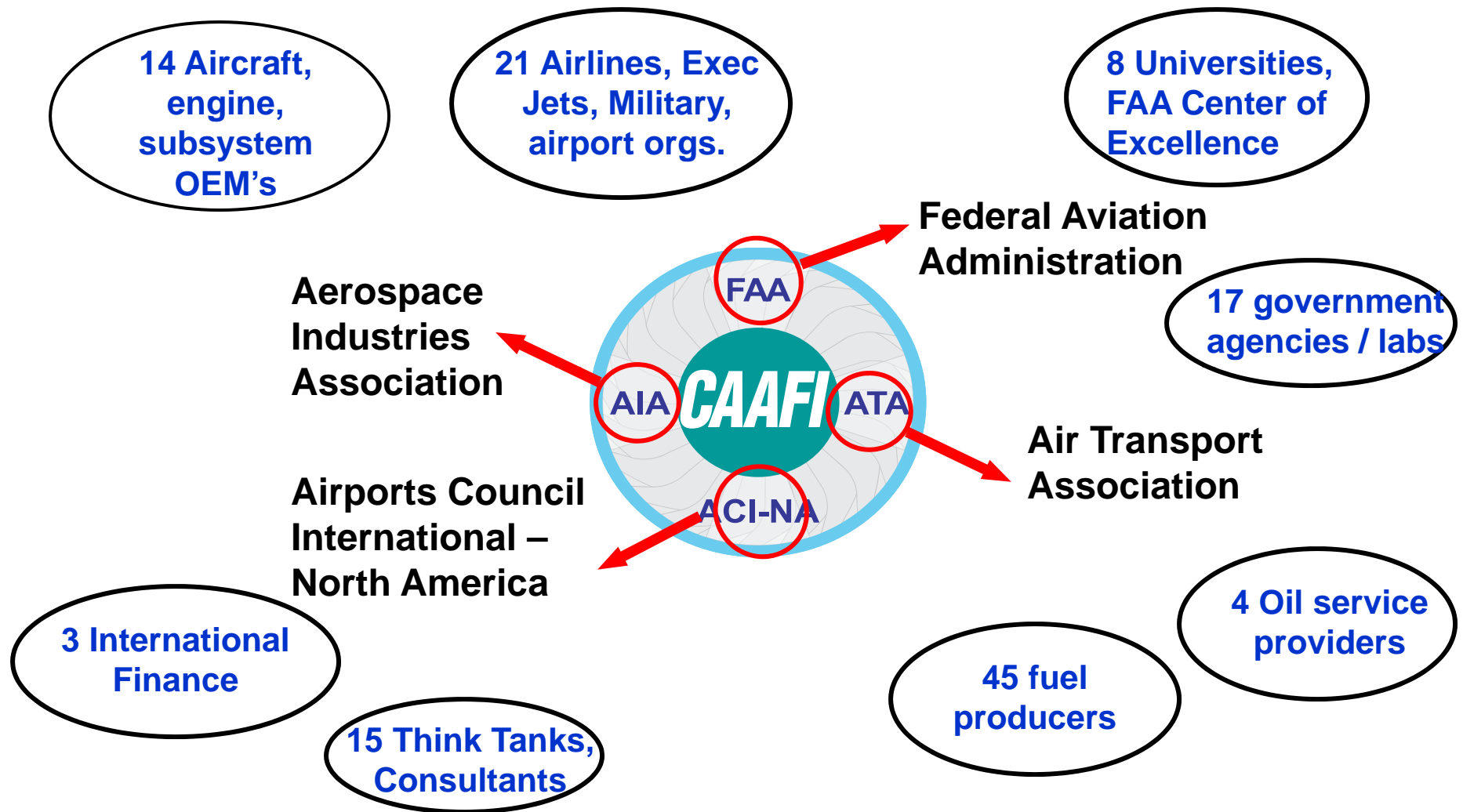


- How CAAFI plans to “win the future” for Aviation with Global Partners

“(The) U.S. aviation industry is eager for an entirely new fuel dynamic and will be an enthusiastic purchaser “

.....Letter dated 1/16/09 to President Elect Obama

CAAFI - Who We Are*



Now 600 Global Sponsors/Stakeholders

**** Actual attendance at 9/30/09 meeting 230 people, 125 entities***

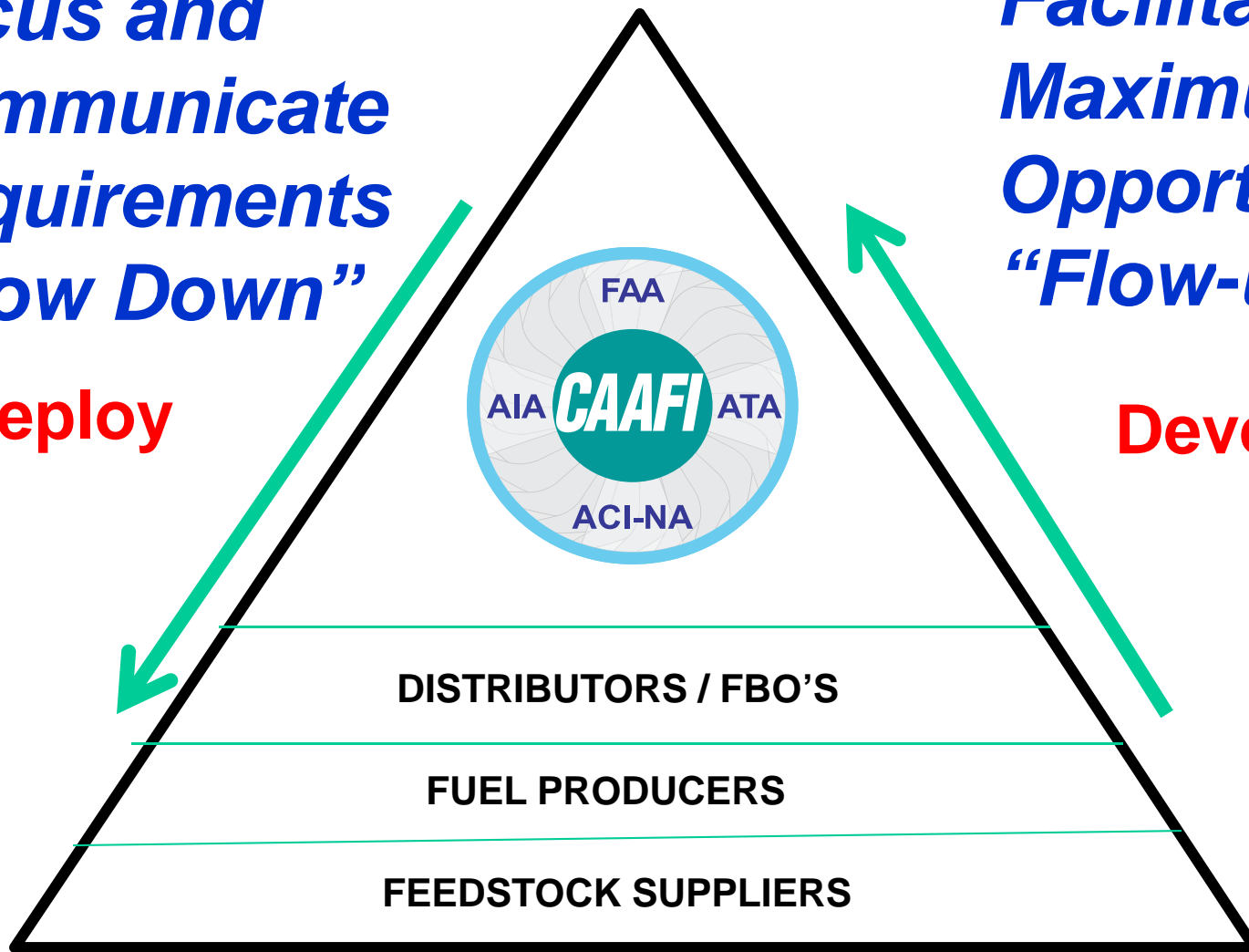
CAAFI – How We Operate

*Focus and Communicate Requirements
“Flow Down”*

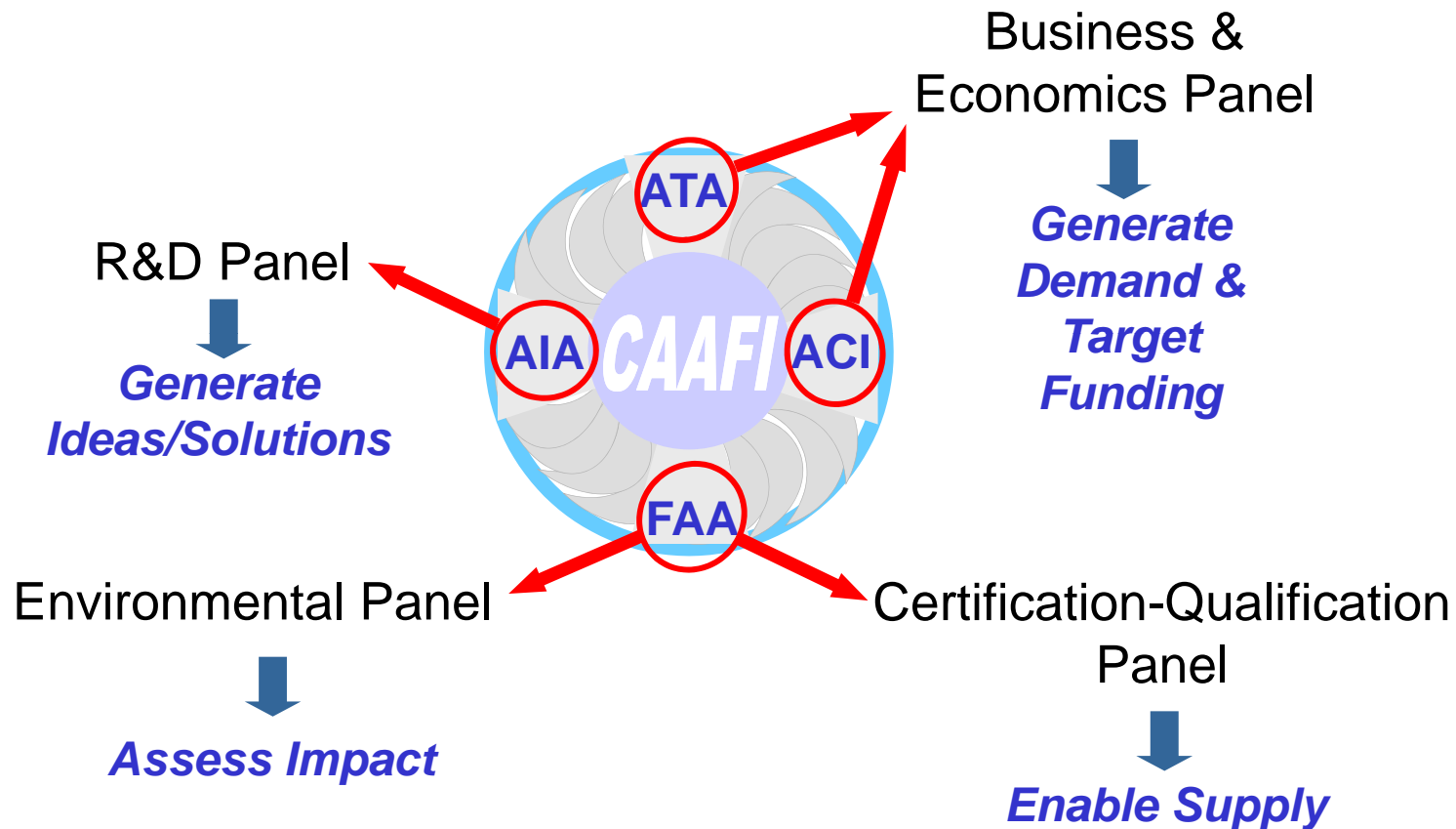
Deploy

*Facilitate Maximum Opportunity
“Flow-up”*

Develop



CAAFI Teams Drive Outcomes



.....Process Owners Who Lead Teams Drive Outcomes, *with us this week!*

Future of Biofuels is “Looking Up”!

The Economist - October 28, 2010 <http://www.economist.com/node/17358802>)



Dave Simonds

"I'm directing the Navy and the Departments of Energy and Agriculture to work with the Private sector to **create advanced biofuels that can power ..not just fighters..but trucks and commercial airliners.**"

..... U.S. President Barack Obama, 3/30/11

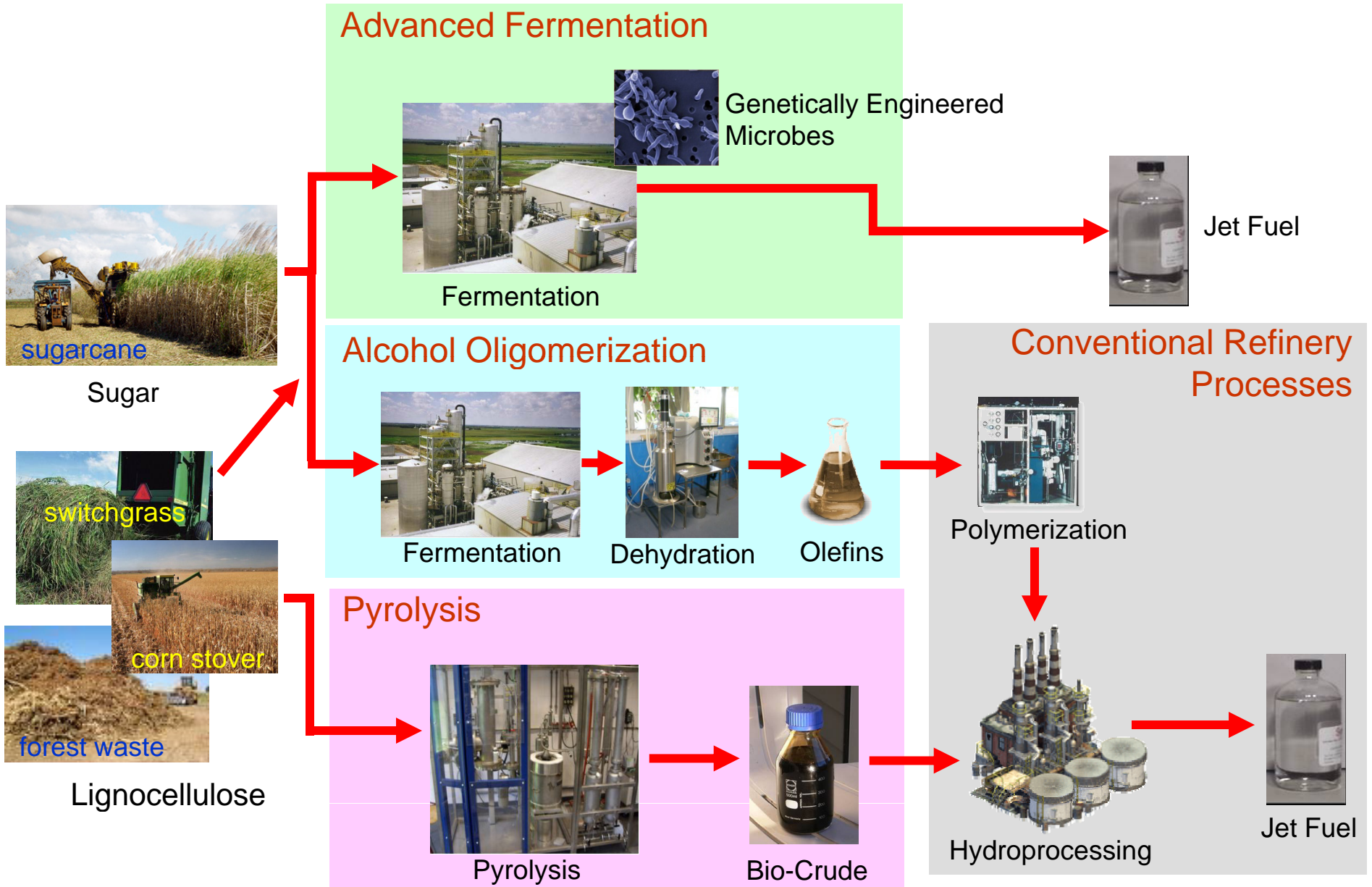
.....\$ 510 M U.S. Solicitation released 8/16/11

“Winning the Future” for Aviation, SUSTAF

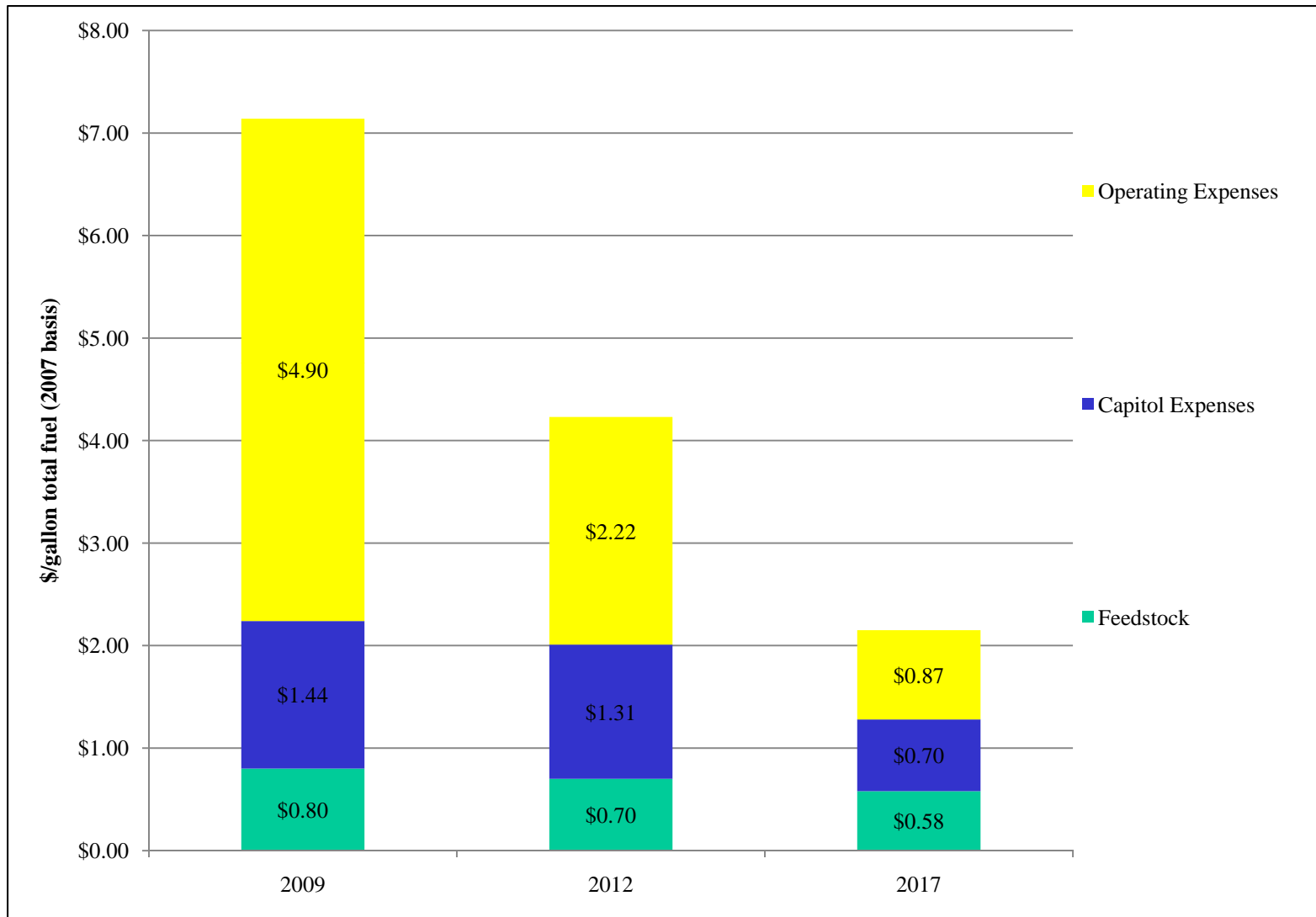
Action by CAAFI Sponsors/Stakeholders Now

- ***Added processes/feedstocks pathways qualified to increase supplies***
- ***Execute Feedstock Readiness and manufacturing technology for cost gains.***
- ***Develop, Deploy via multiple States, nations***
- ***Increase Environmental Analysis Certainty***
- ***Attract Private Sector Financing now...to real, viable business sector***
- ***Build Awareness of SUSTAF Opportunity!***

Advanced Process Paths To Increase Supply

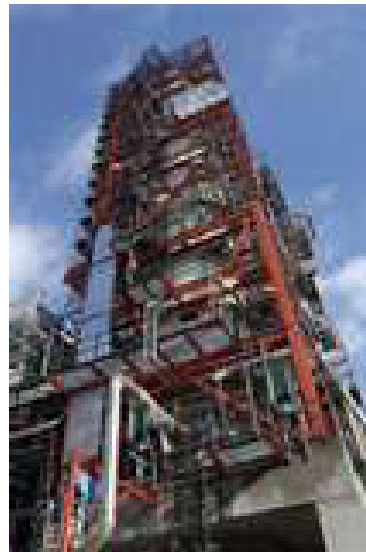
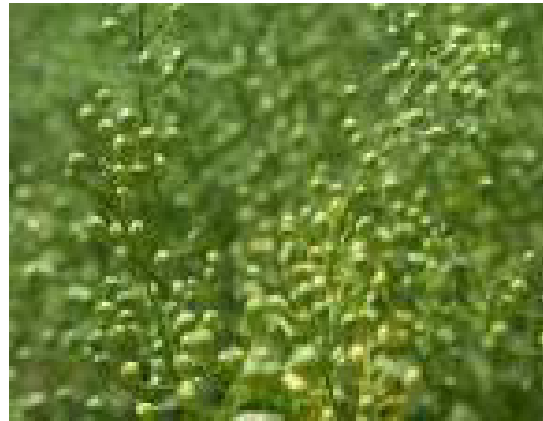


Drive Down Cost - U.S. DOE Process



*DOE - Current funded pathway to \$2.00 /Gallon Pyrolysis Oil

Deployment = Multiple US States In Play



Arizona
California*

Florida

Georgia

Hawaii**

Illinois

Louisiana*

Michigan**

Mississippi*

Ohio**

New York**

Pennsylvania**

Oklahoma

Tennessee**

Texas**

Washington*

Wisconsin

* airline/producer MOU's ** study proposals or Pilot Plants

Awareness - 2011 CAAFI Meeting / Expo

Nov. 30, Dec 1 Washington D.C.*

- CAAFI Conference ...
 - CAAFI Team progress
 - Panels on U.S. States, Federal, Global cooperation
 - Team going forward plans
- CAAFI Expo to
 - maximize producer, research stakeholder visibility
 - access decision makers, funding sources, buyers
 - gain media / investor attention as 2nd generation aviation biofuels leader

* U.S. Agriculture Sec. Vilsack (top), U.S. Transportation Sec. Lahood (middle), media “horde” at CAAFI showcase Paris Airshow 06/11





www.caafi.org



***Winner Joseph S. Murphy,
Air Transport World,
Industry Service Award, 2010***



***Winner Washington
Airports Task Force
Williams Trophy “for
Enriching The Quality of
Life On Earth”, 2011***