



Sustainable Alternative Fuels for Aviation

ICAO Environment Branch



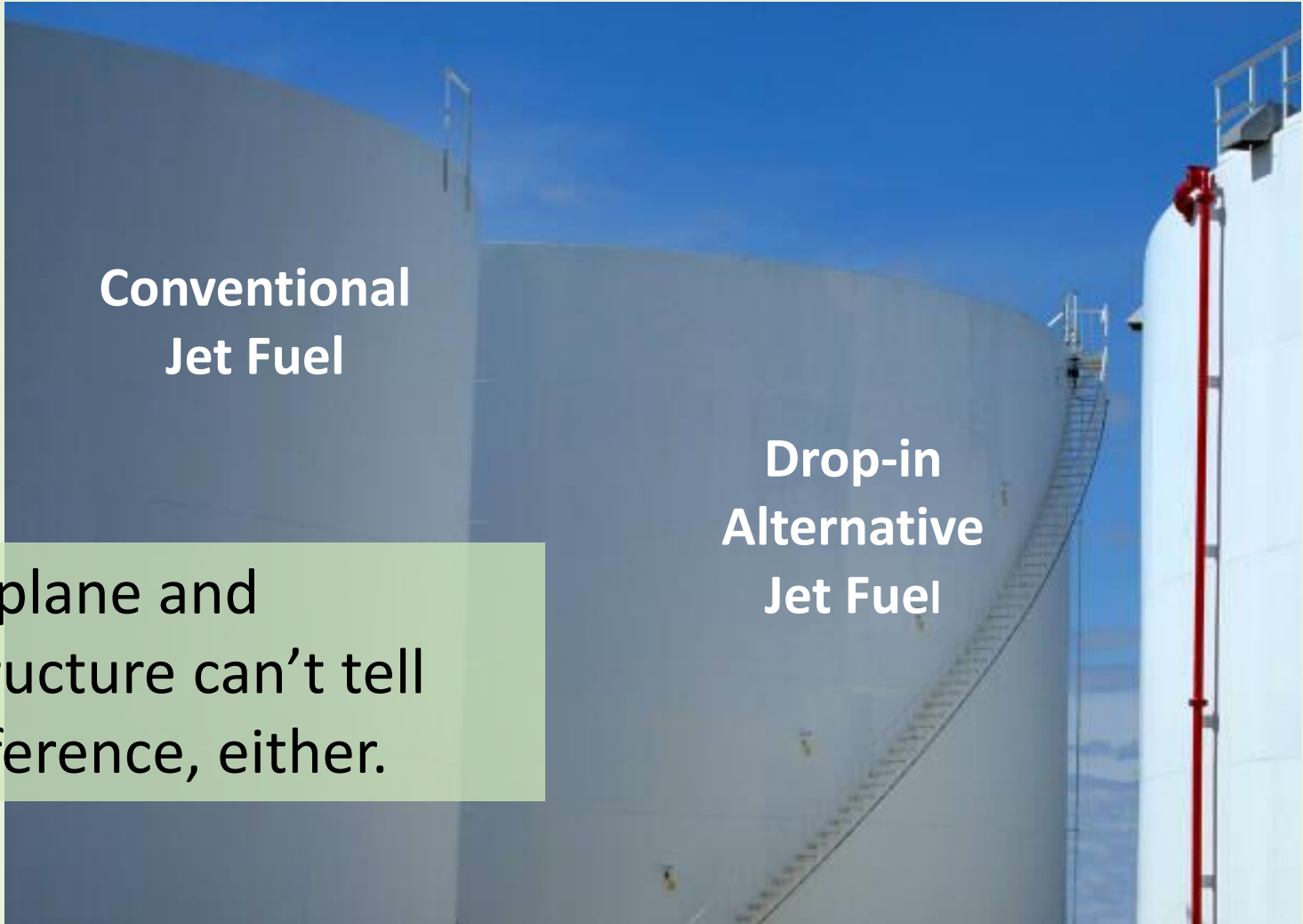


Drop-in Alternative Fuels

**Conventional
Jet Fuel**

The airplane and
infrastructure can't tell
the difference, either.

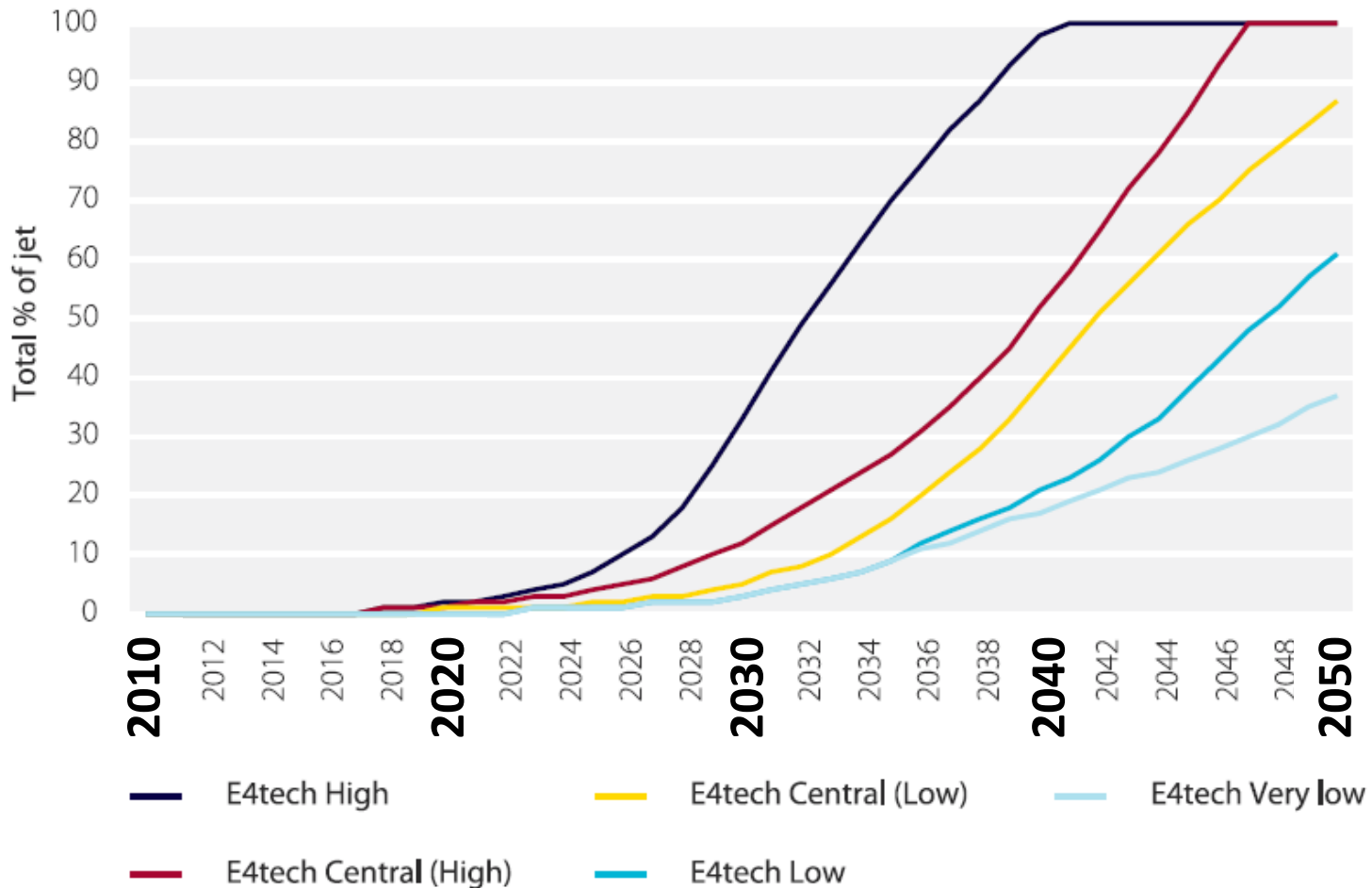
**Drop-in
Alternative
Jet Fuel**



The Sustainable Alternative Fuel Difference



Availability of Alternative Fuels



Source: E4tech (2009).

ICAO's Role

ICAO is a **FACILITATOR**

- Outreach
- Information exchange
- International collaboration
- Broader view
- **Globally**





ICAO's Activities



International Civil Aviation Organization Assembly - 36th Session



ICAO WORKSHOP



AVIATION AND ALTERNATIVE FUELS

ICAO Headquarters,
Montréal, Canada, 10 to 12 February 2009

Workshop

Conference



ICAO CONFERENCE AVIATION AND ALTERNATIVE FUELS



RIO DE JANEIRO, BRAZIL
16 – 18 NOVEMBER 2009

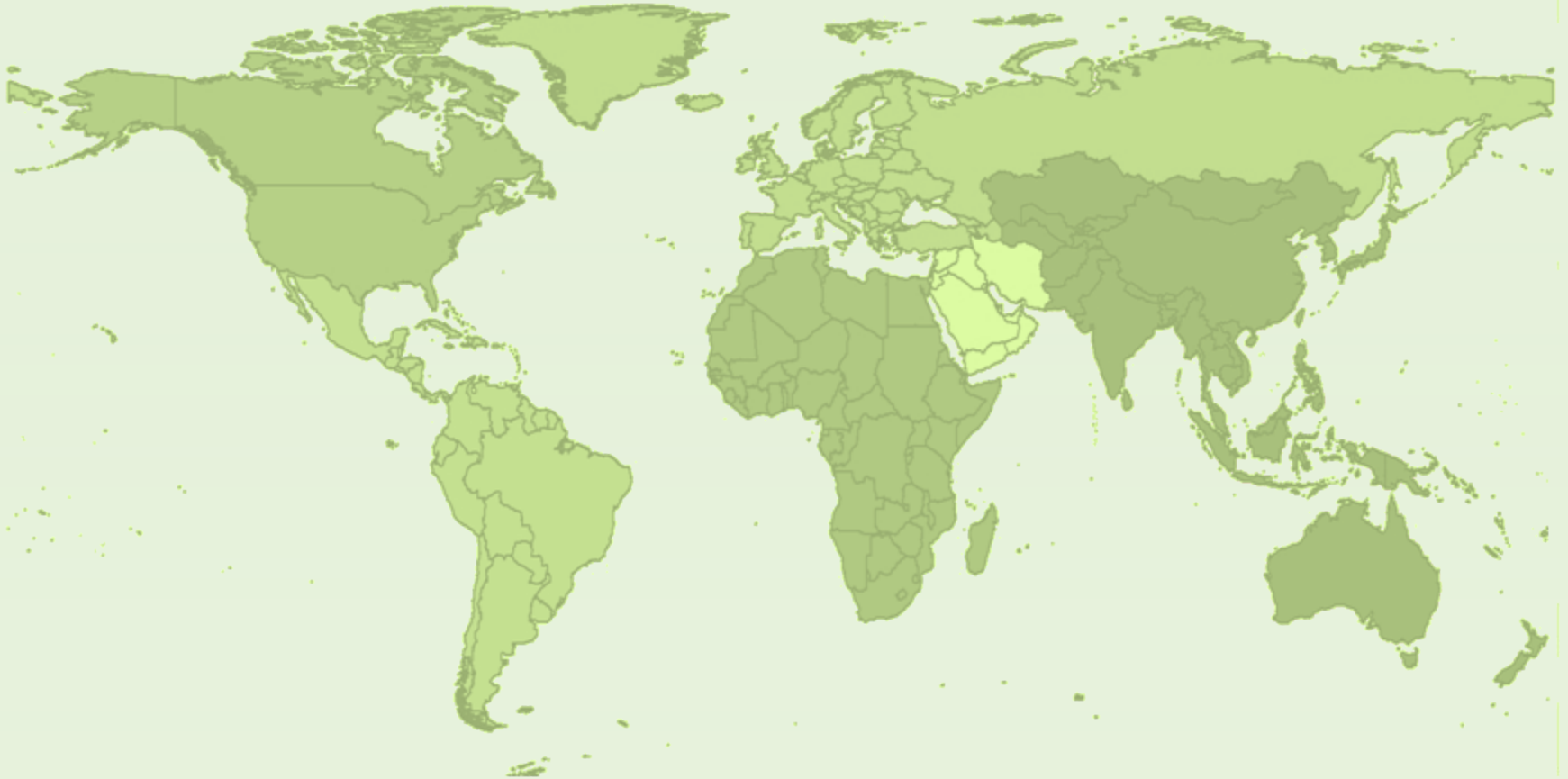
Hosted by the
National Agency of Civil Aviation (ANAC) Brazil





Global Framework for Aviation and Alternative Fuels

Initiatives in every region of the world





Consortia and Initiatives



www.icao.int/AltFuels

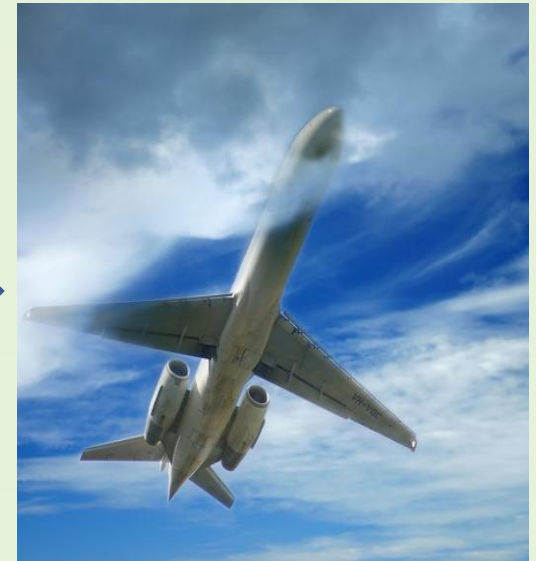


ASTM D7566

- “Standard Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons”
- First new jet fuel certification in 20 years
 - Fischer-Tropsch fuels
 - Structured to accommodate future types in annexes
 - Hydrotreated Renewable Jet (HRJ) approval underway



From Research to Reality





Challenges

- Financial assistance and incentives



Development and deployment





- Regulatory frameworks



Ensure availability



Win-Win

- Local Air Quality and Climate Change benefits 
- Stabilize supply and fuel prices 
- Create new markets and employment 
- No change to existing infrastructure 

Sustainable Alternative Fuels are a key element for addressing aviation's contribution to climate change.

More information

To find out more:

- ICAO Alternative Fuels website
www.icao.int/AltFuels
- Report of the ICAO Conference on Aviation and Alternative Fuels (Doc 9933) - Nov. 2009
- ICAO Environmental Report 2010, Chapter 5

