

# Increased Risk of Out-of-Specification Fuels

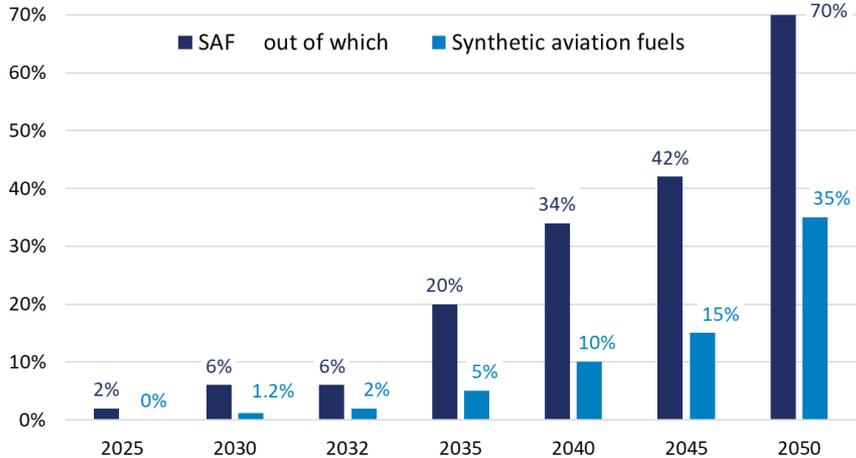
Bastian RAUCH, Aviation Fuel Expert

**Your safety is our mission.**

# SATF Market Transition

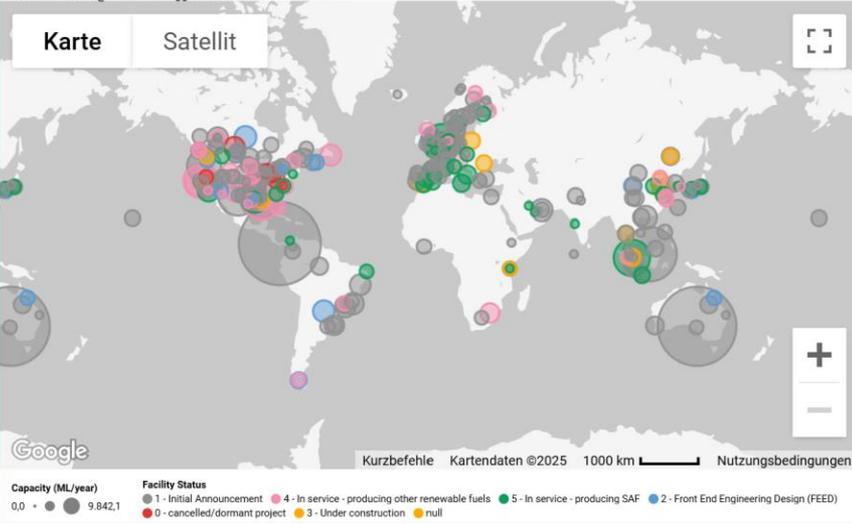


Ambitious EU-wide binding shares and realistic ramp-up 2025-2050

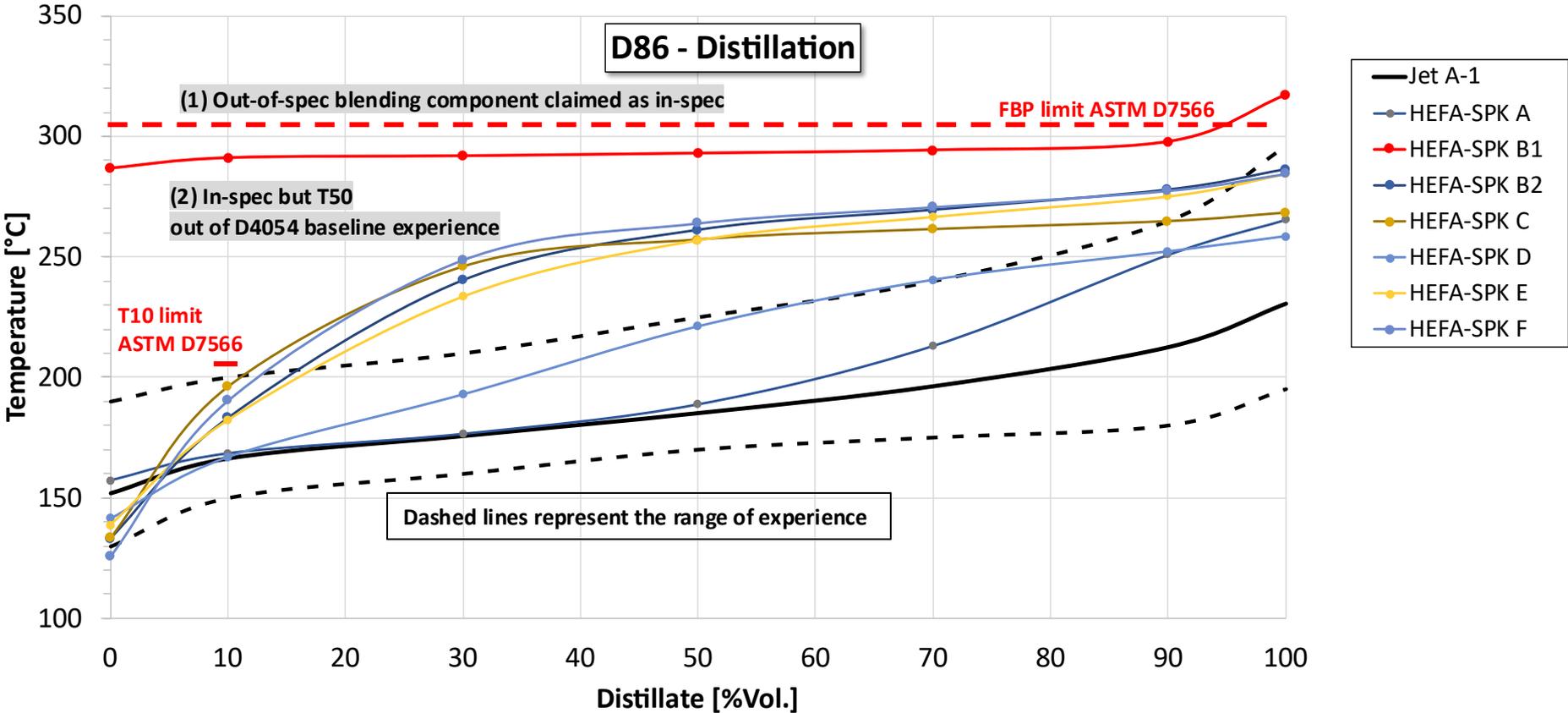


## ICAO tracker of SAF facilities

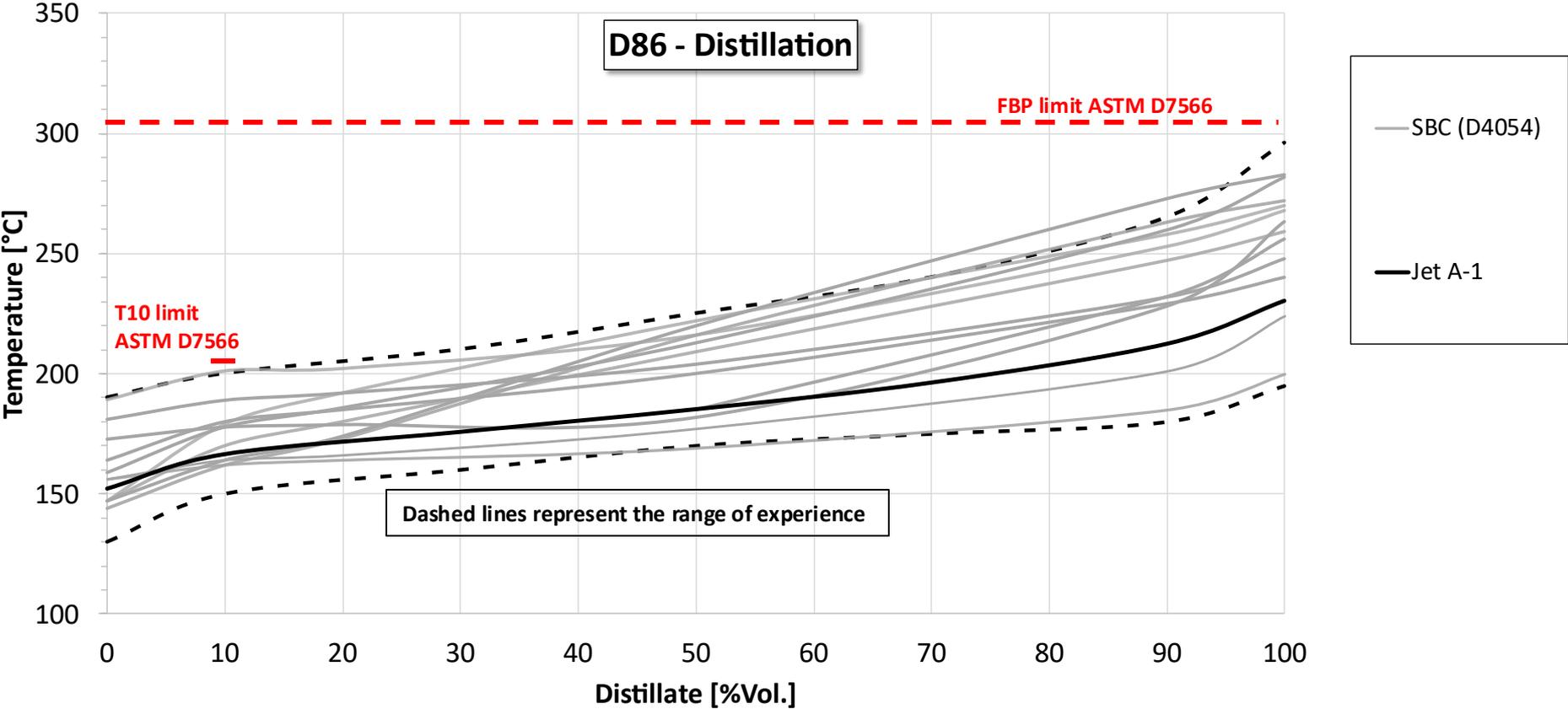
This tracker provides information on facilities (existing and announced) that could produce Sustainable Aviation Fuels.  
 Note: capacity numbers refer to total capacity, including SAF and other renewable fuels. ICAO does not actively verify the status of announcements made in the past.  
 contact officeenv@icao.int to suggest the inclusion of information



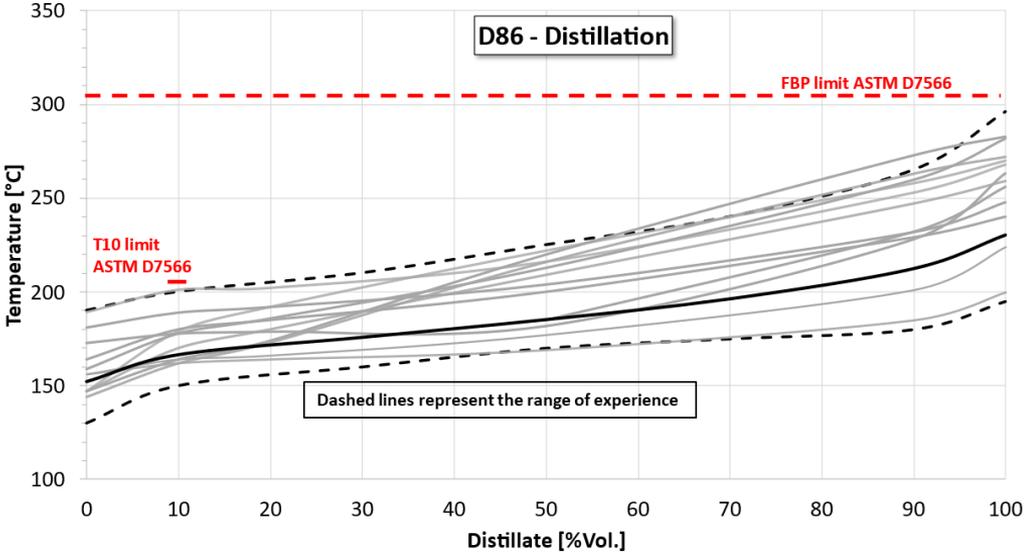
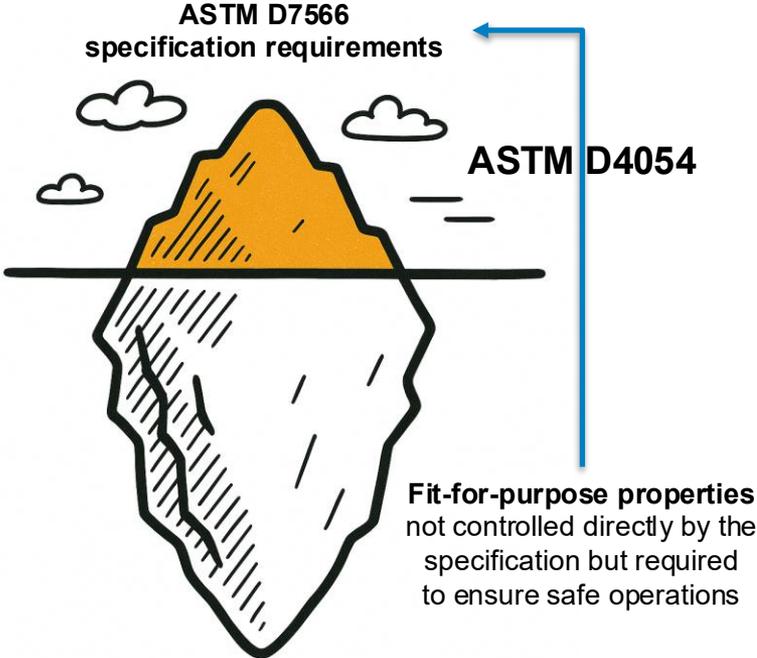
# CSR – HEFA with unusual/out-of-spec distillation



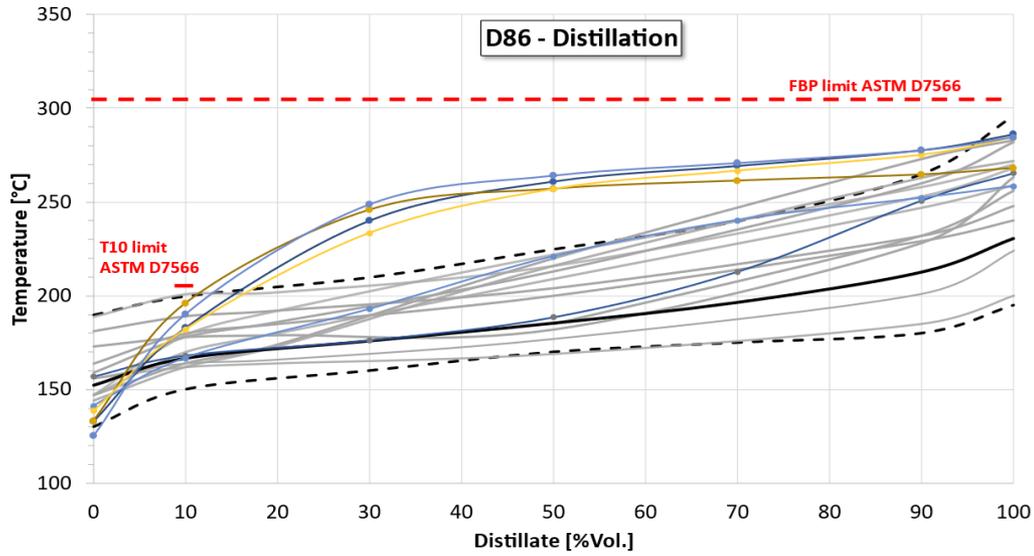
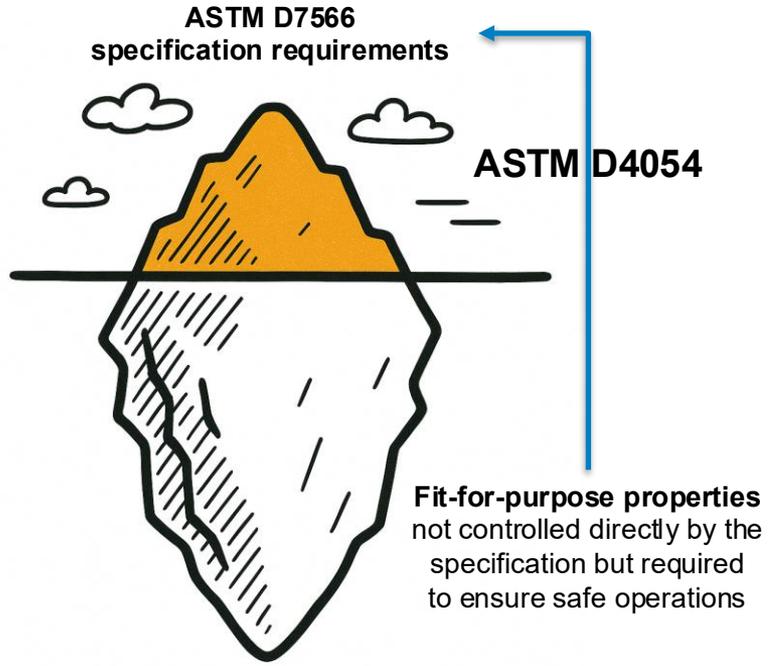
# ASTM D4054 baseline experience



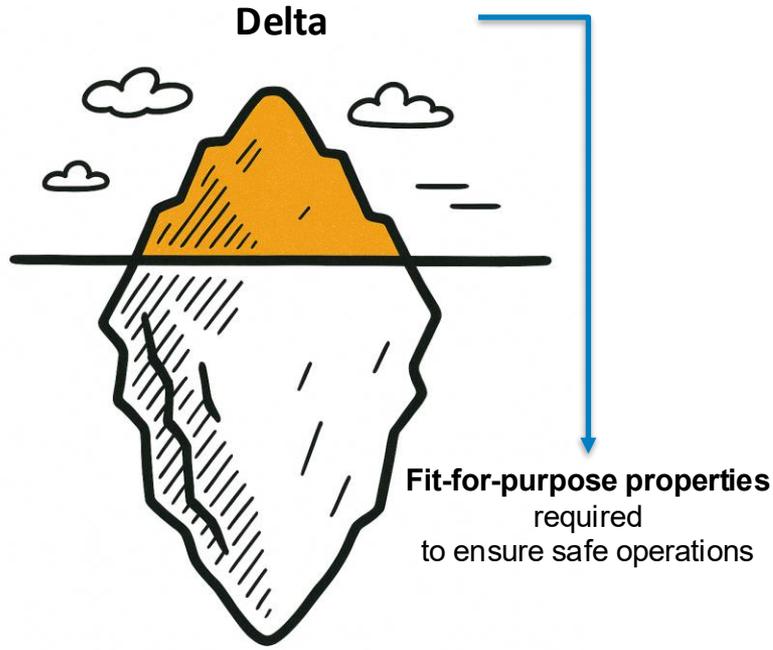
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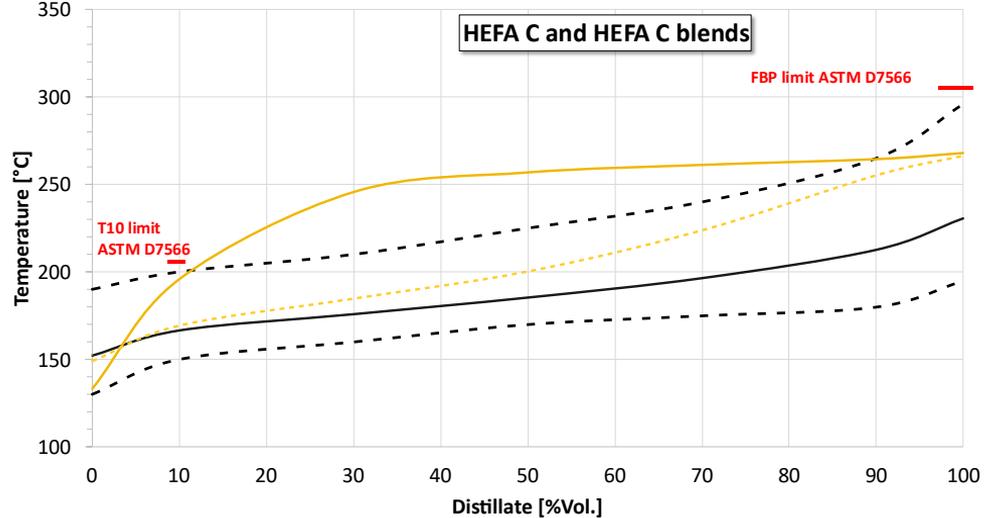
# In-spec but out of D4054 baseline experience



# In-spec but out of D4054 baseline experience



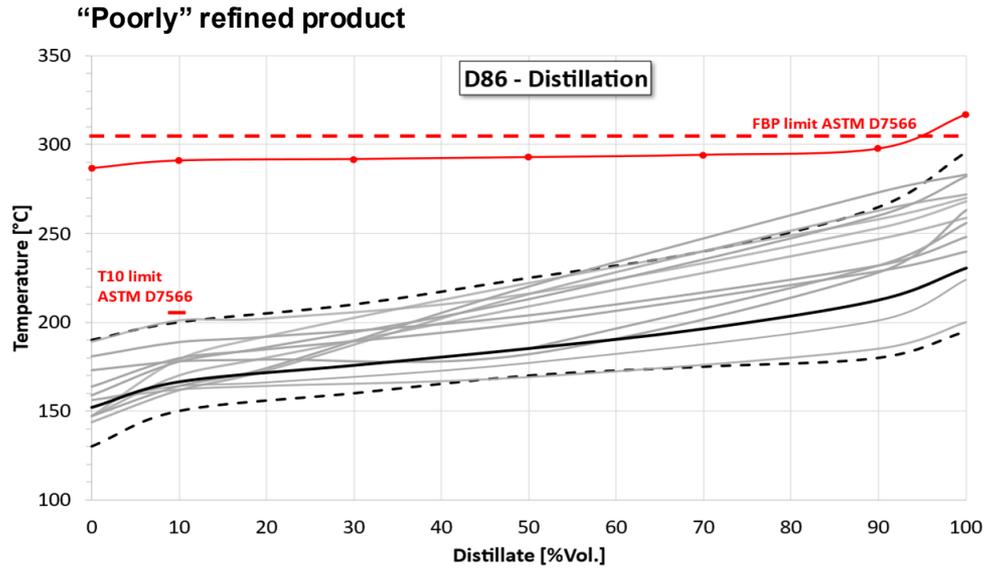
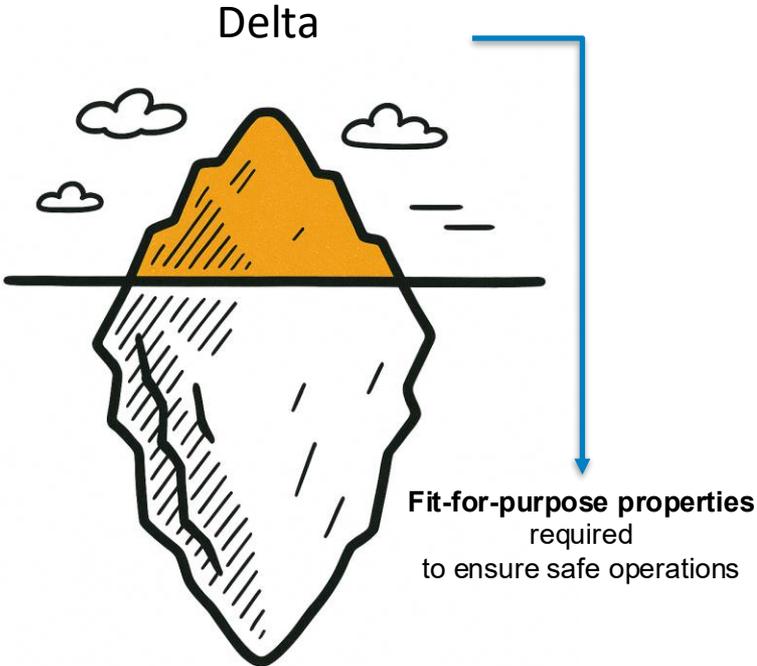
Highly refined product



Importance of robust D7566 requirements

Advisable to monitoring SBC fuel quality on market

# Out-of-spec (D7566) distillation

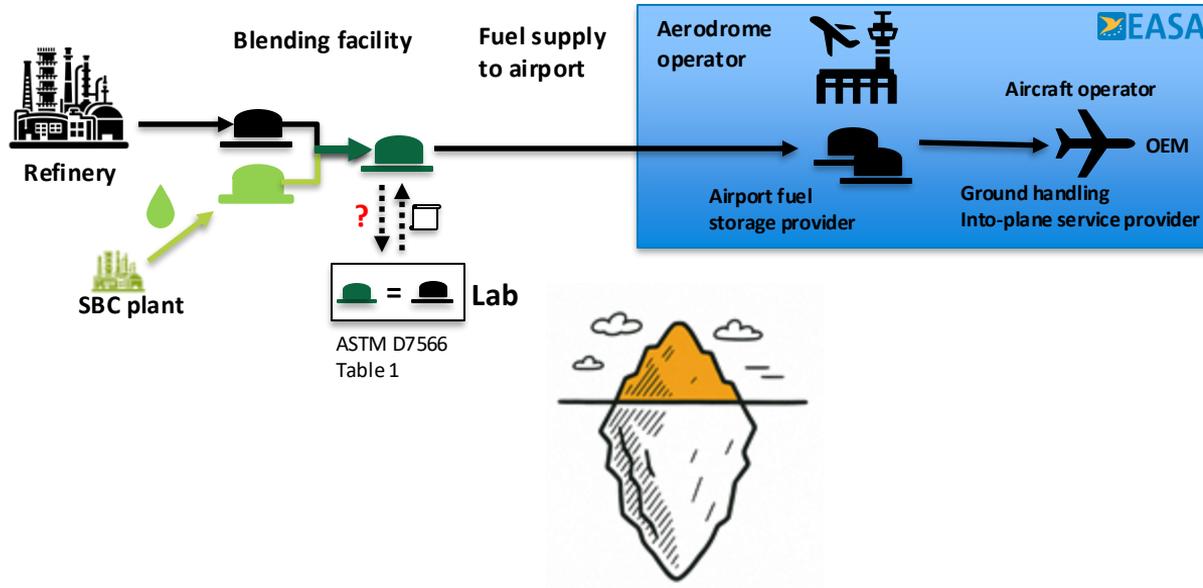


Which safety critical fuel properties might be impacted by poorly refined SBC's?

Can these be detected in the blended product?

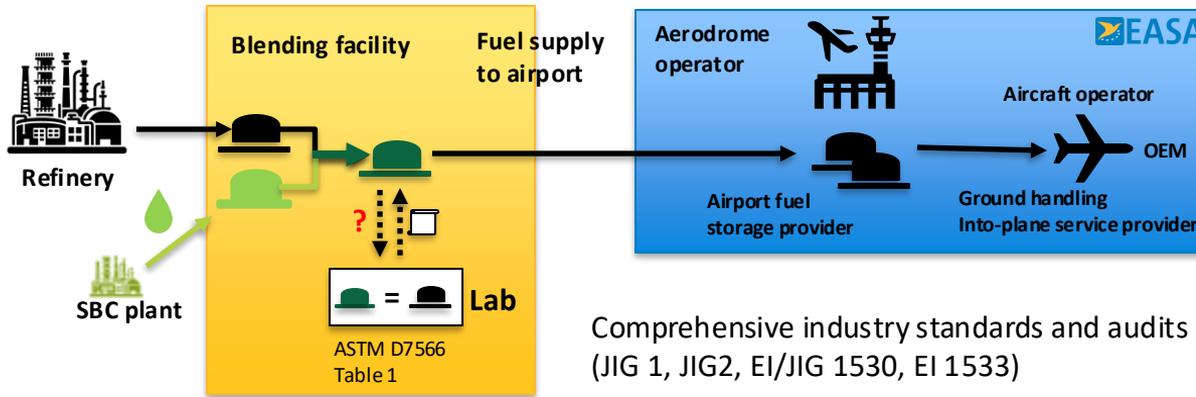
# Regulatory Framework

**Current regulatory approach:**  
ensure the provision/use of  
uncontaminated fuel with the correct specifications



# Regulatory Framework

## Key for SATF quality control



## Current regulatory approach:

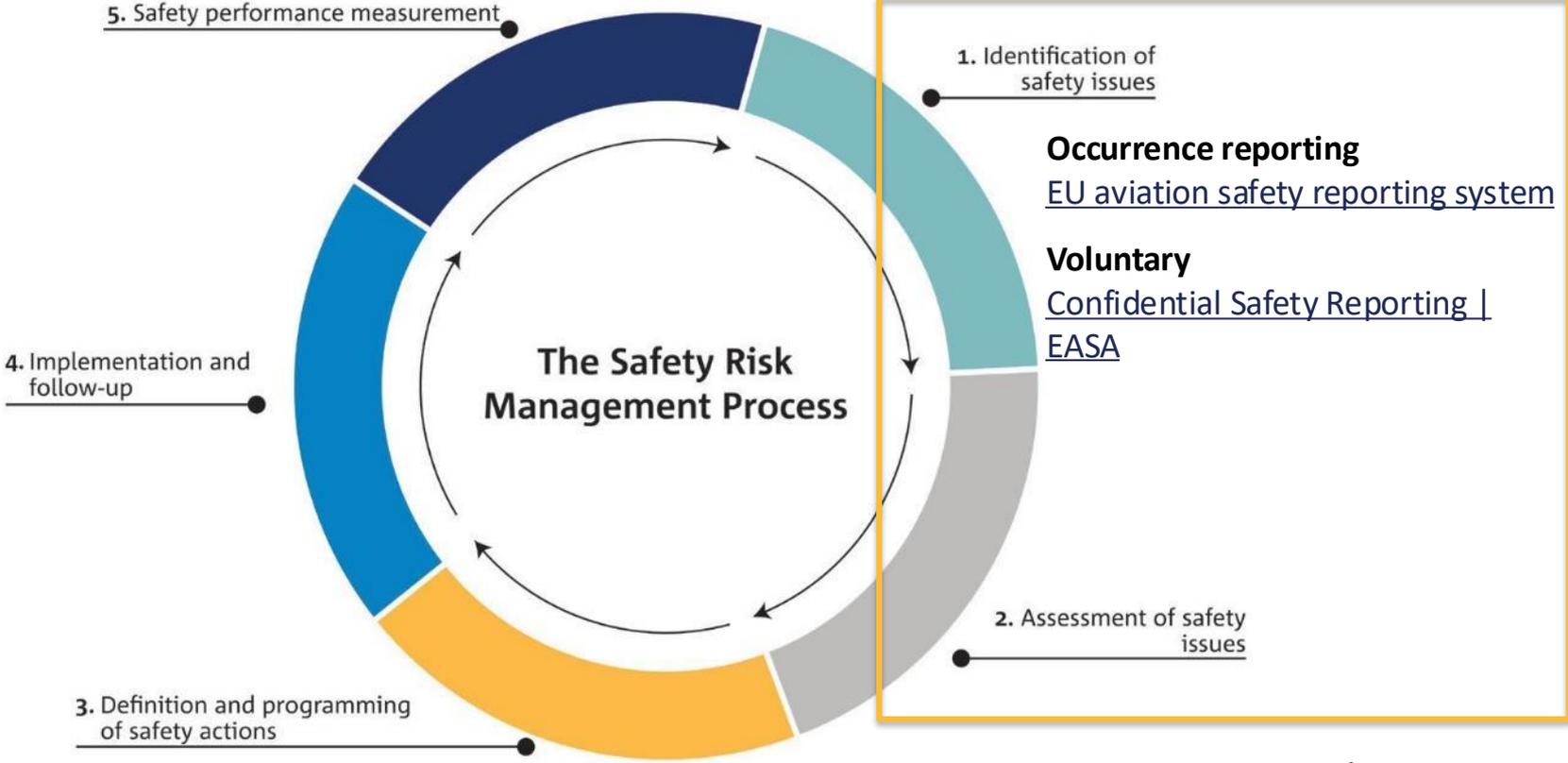
ensure the provision/use of uncontaminated fuel with the correct specifications

Comprehensive industry standards and audits (JIG 1, JIG2, EI/JIG 1530, EI 1533)

Industry standards are voluntary and questioned by new market entrants

Industry standard organizations in fuel supply chain:  
JIG Joint Inspection Group  
EI Energy Institute

# Next: Collaborative Safety Risk Management



# Questions?

[fuel.safety@easa.europa.eu](mailto:fuel.safety@easa.europa.eu)

## Safety Information Bulletin

[2025-01: Risks Related to Out of Specification Aviation Turbine Fuels](#)

[easa.europa.eu/connect](https://easa.europa.eu/connect)



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An Agency of the European Union 