



Status on sustainable aviation fuels – Recent developments in the airline sector

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Nordic leadership in aviation emissions reductions
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To represent, lead and serve the airline industry



Content

- Latest sustainable aviation fuel initiatives
 - Singapore Airlines
 - Brisbane Airport
 - Geneva Airport
- Sustainable aviation fuels in ICAO CORSIA

Sustainable aviation fuels – a commercial reality

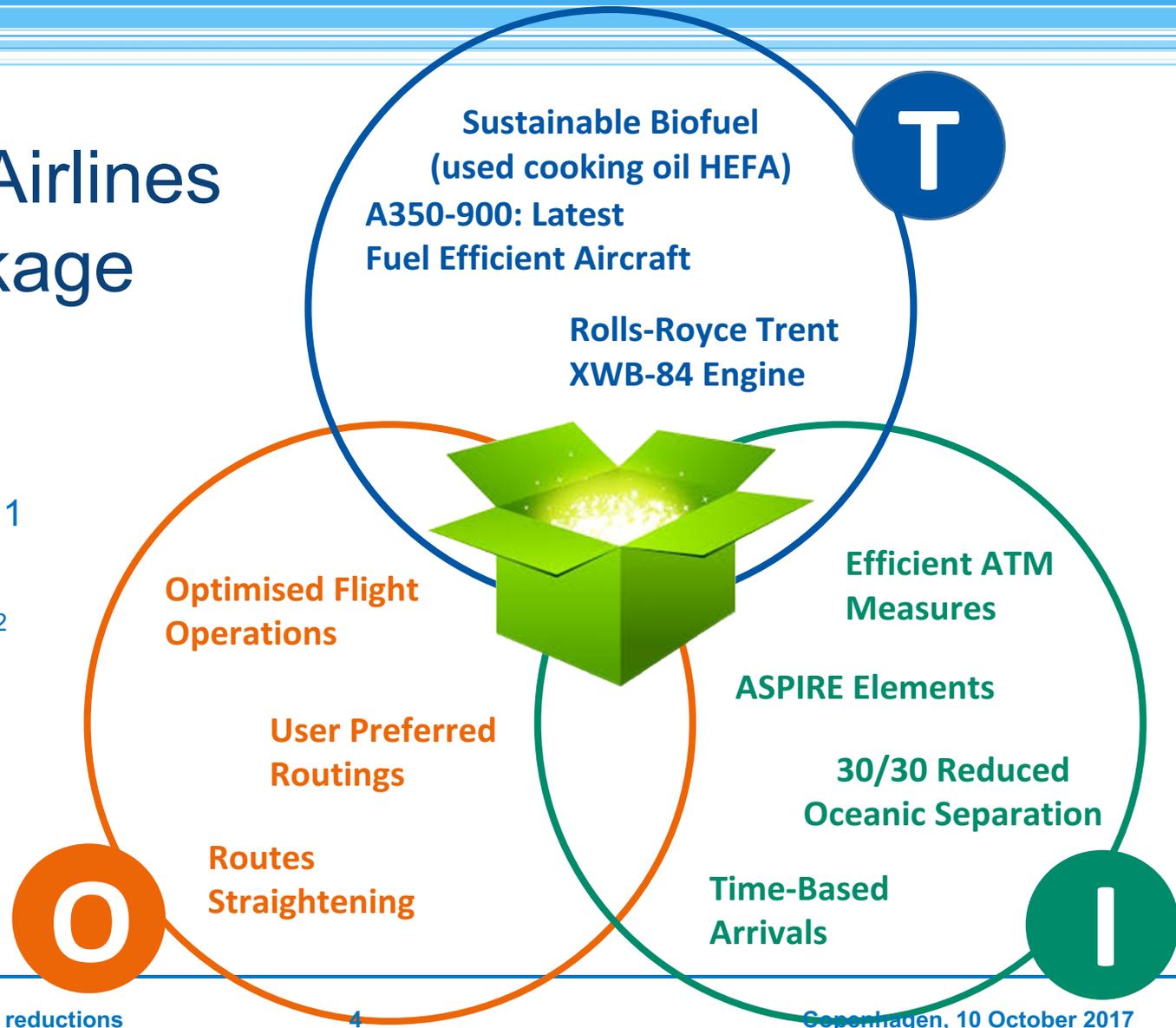
- Regular sustainable aviation fuel (SAF) supplies started in early 2016
- Today: over 40'000 flights with SAF blends performed
- Increasing number of airports with regular SAF supply:
 - Los Angeles, Oslo, Bergen, Stockholm: operational through airport distribution network
 - New route: Singapore Airlines (SFO – SIN)
 - Recent new announcements: Brisbane, Geneva





Singapore Airlines Green Package

- ↗ SFO-SIN (Non-Stop)
- ↗ Distance 13,600km
- ↗ 12 flights (weekly from 1 May to 11 July 2017)
- ↗ CO₂ Savings: 885 tCO₂



Source: Singapore Airlines

SFO – SIN Biofuel flights: Stakeholders

Project Partners

Civil Aviation Authority of Singapore

Ministry of the Environment & Water Resources

Sustainable Singapore Blueprint

Consortium

- Project Coordinator
- Sourcing of HEFA
- Sustainability & Traceability Reporting



- Logistics from AltAir-SFO
- Fuel Quality & Testing
- Coordinate Transfer with ASIG & SFO Airport



- Biofuel Supply Contract
- Insurance Coverage



China Aviation Oil

Supporting Partners



- HEFA Producer
- Blending with Jet A



- Transfer from Road Tanker to Refueller Truck
- Into Plane Operations



San Francisco International Airport

- Host Airport
- Facilitate Airfield Access & Fuel Transfer Permit

Source: Singapore Airlines

SAF supply at Brisbane Airport

- Alcohol-to-jet through airport fuel system (world first)
- Partners:



Queensland
Government

- First fuel delivery expected Dec 2017
- VA coordinates purchase, supply and blending
- From sustainable sources including sugarcane bagasse, molasses, wood waste and agave
- Initially alcohol-to-jet fuel imported from US, but high feedstock and fuel production potential in Queensland
- RFI in 2016 by Virgin Australia and Air New Zealand to expedite investment in regional fuel production, targeting fuel supply by 2020

Source: Virgin Australia

SAF supply at Geneva Airport

➤ Partners:

NESTE



GENÈVE
AÉROPORT



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

- First fuel delivery expected Dec 2018
- At least 1% blend – goal: fossil neutral growth
- Support by Swiss government to keep price neutrality for airlines

Aviation's global market-based measure

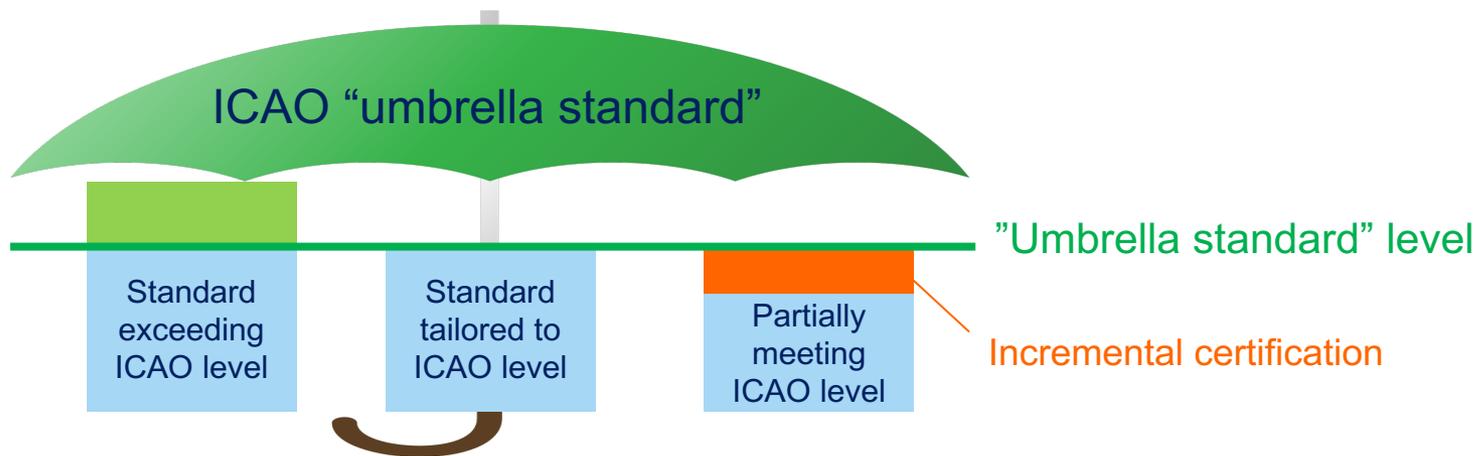


- Historic decision at ICAO Assembly (6 October 2016)
 - Nearly all 191 ICAO States supported CORSIA
- Industry was instrumental in agreement
 - 7 years since industry set goals and started pushing for a global MBM
- September 2017: CAEP Steering Group approved draft CORSIA Standards and Recommended Practices (SARPs) and guidance
 - including on alternative fuels
- June 2018: Adoption of CORSIA SARPs by ICAO Council
- 1 January 2019: CORSIA SARPs applicable

Alternative Fuels in the CORSIA Context

- CAEP is developing recommendations for the recognition of SAF CO₂ emissions reduction under CORSIA
- Global nature of the ICAO CORSIA → requires a globally harmonized view of sustainability criteria
- Excellent opportunity for international aviation to define a globally recognized framework for sustainability of alternative fuels
- Build as much as possible upon existing sustainability standards and frameworks
 - Sustainability criteria (environmental, social, economic)
 - Compliance mechanism

A suggested approach for building upon existing standards



A framework ("umbrella") standard would allow recognizing existing (current or future) regulatory or voluntary standards as suitable to demonstrate sustainability under CORSIA



Thank you!

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