



ICAO

ENVIRONMENT

ICAO SEMINAR ON  
ALTERNATIVE FUELS 2017  
ICAO Headquarters, Montréal, 8-9 February 2017



# In the Tank Now:

*Successful Deployment of Aviation Alternative Fuels*

**Fokko Kroesen**

*Corporate Environmental Strategy,  
KLM Royal Dutch Airlines*





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Benchmarked nr 1 on multiple sustainability topics in the Dow Jones Sustainability Index for 12 consecutive years with Airfrance

[klmtakescare.com](http://klmtakescare.com)

Royal Dutch Airlines



- Customer relations 90%
- Efficiency + reliability 100%
- Fleet and use of biofuels 95%



- Environmental Reporting 100%
- Policy and management 93%

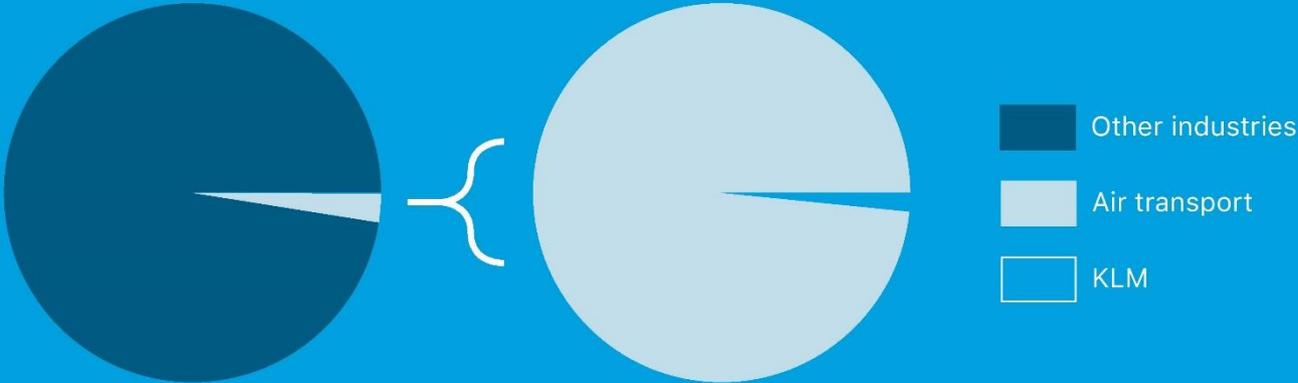


- Corporate citizenship 93%
- Social reporting 85%



**Dow Jones Sustainability Indexes**

# Global CO<sub>2</sub> emissions & KLM's part



Air transport contributes for 2 - 3% to global CO<sub>2</sub> emissions (770 million ton CO<sub>2</sub>)

Of which 1,58% is caused by KLM (12,2 million ton CO<sub>2</sub>)



12,2 million ton CO<sub>2</sub> = 1 year of energy use for 1.525.000 homes

Goal:

↓20%

Reduce our CO<sub>2</sub> footprint by 20% per passenger in 2020 (compared to 2011) by executing our Climate Action Plan

# Climate Action Plan

Our Climate Action Plan embodies our strategy for further reducing our impact on climate change.



Fleet renewal  
(5-10%)



Operational efficiency  
(1-5%)



Sustainable biofuels  
(1%?)



Offsetting  
(5-10%)

Under our control

Some control

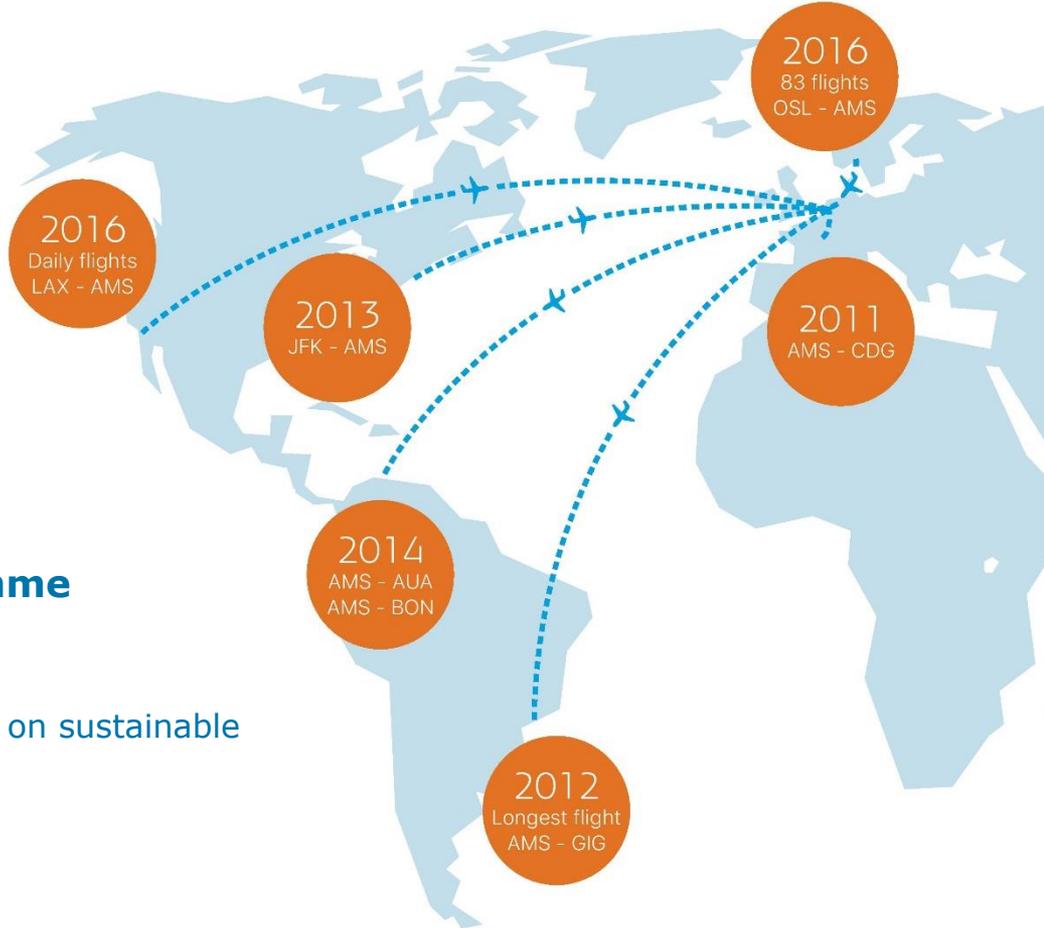
No control

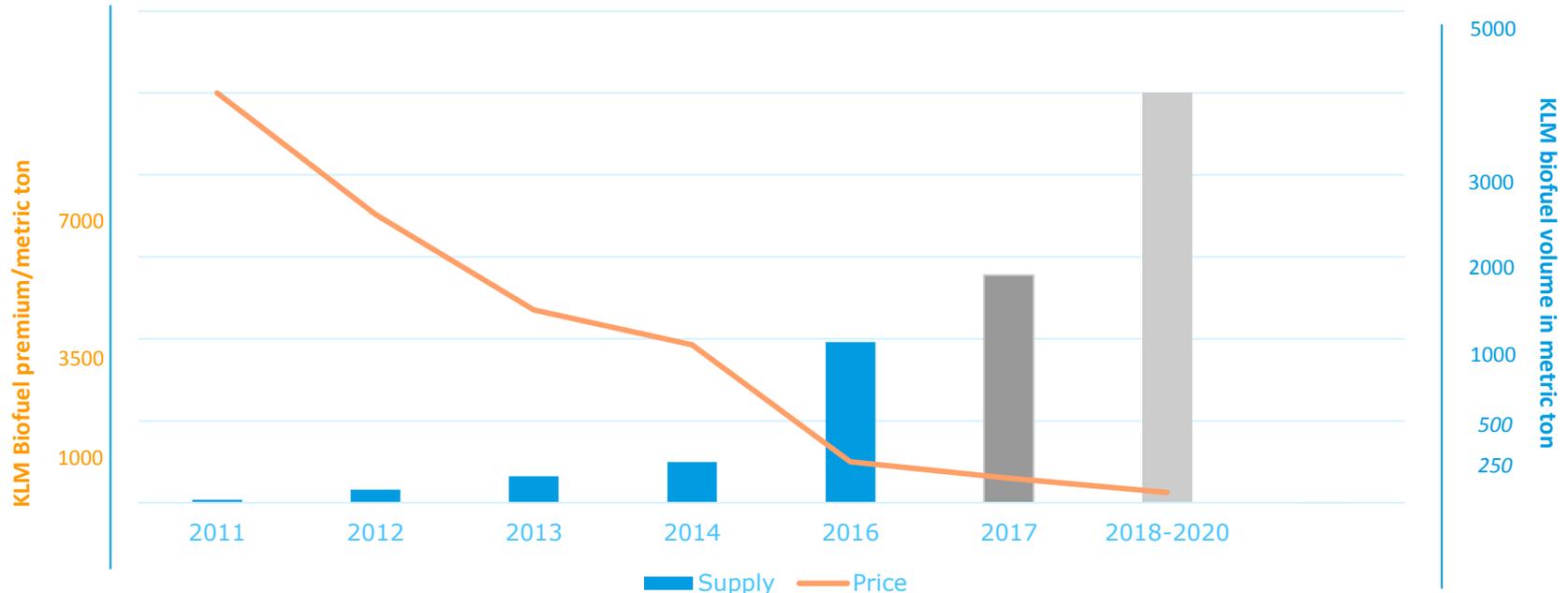
# Sustainable biofuels

80%  
less CO<sub>2</sub>



- **KLM Corporate BioFuel Programme**  
Teaming up with corporate customers;
- **SkyNRG & Sustainability Board**  
Exploring the markets and being advised on sustainable feedstocks and roadmaps;





2010-12      2013      2014      2016-2018      beyond 2018



KLM biofuel activities launch    JFK-AMS series    AMS-AUA series    OSL-AMS series    Los Angeles -> AMS/Nordic    Bioport Holland



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## Regulatory focus – ICAO Destination Green, 2013 –

- Ensure international sustainability criteria for biofuels;
- Simplify technical certification protocols and regional regulations to create a level playing field with other sectors;
- Support the development of regional biojetfuel supply chains;
- Encourage demand by duty travel on biofuels, and develop 'green deals'.



# Wij heten het ministerie van Infrastructuur en Milieu welkom aan boord van het KLM Corporate BioFuel Programma

KLM staat samen met Air France voor de twaalfde keer op rij nummer 1 in de Dow Jones Sustainability Index als meest duurzame airline. Wij vinden het belangrijk om te verduurzamen, maar ook een koploper kan het niet alleen. Daarom zijn wij blij dat het KLM Corporate BioFuel Programma een nieuwe deelnemer mag verwelkomen: het ministerie van Infrastructuur en Milieu. Samen met een reeks van toonaangevende bedrijven die zich al eerder hebben aangesloten, investeren het ministerie van Infrastructuur en Milieu en KLM in de ontwikkeling van duurzame biobrandstoffen. Welkom aan boord!



Het KLM Corporate BioFuel Programma is powered by:



Ministerie van Infrastructuur en Milieu



LOYENS Loeff

accenture



HEINEKEN



Gemeente Amsterdam





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THANK YOU