

An aerial photograph of a lush green forest with a winding river. The river flows from the top left towards the bottom right, surrounded by dense, vibrant green trees. The water in the river is a deep blue color.

ENVIRONMENTAL SUSTAINABILITY AT AIR FRANCE KLM

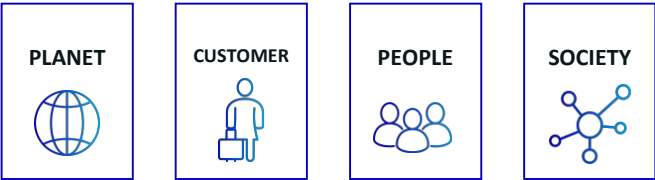
Vincent Etchebehere
VP Sustainability & New Mobilities Air France

AIR FRANCE-KLM SUSTAINABLE STRATEGY

OUR AMBITION:

Maintain our sectorial leadership to mobilize our stakeholders and our staff to draw the aviation of the future

Four pillars



Health, safety and ethics as basis

2019 Performance Environment



2030 Targets Environment



Our commitment to global environmental sustainability contributing to the UN SDGs



OUR DAY AFTER TOMORROW

Acceleration for a green transformation during Covid-19 crisis:



Advanced retirement of the most polluting aircraft (A380s, A340s, 747s)



Commitment for SAF use, for France as well as the Netherlands



Reduction in FR domestic routes to train alternative and “fly responsibly” campaign

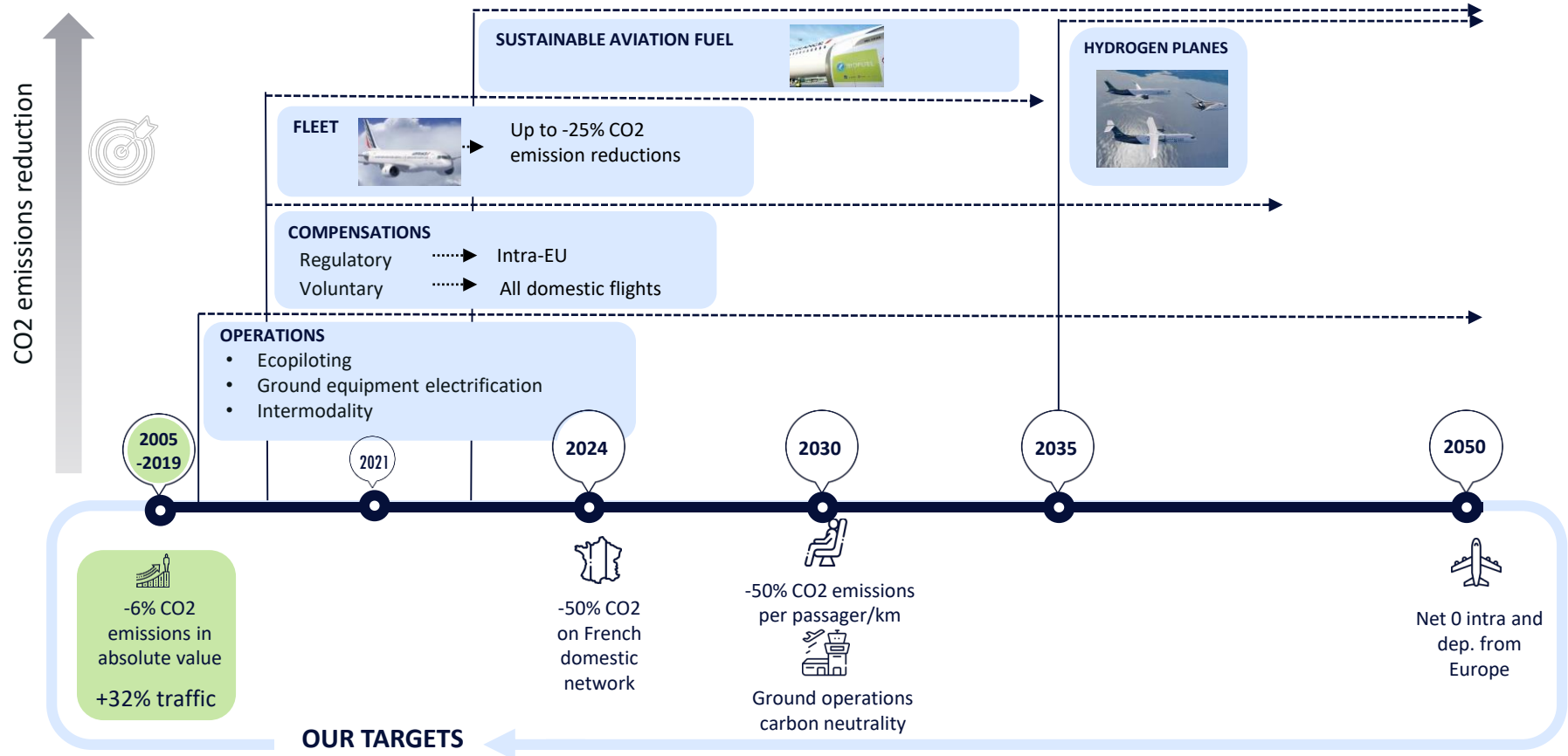


Sustainable products & services, with health & safety as strong basis

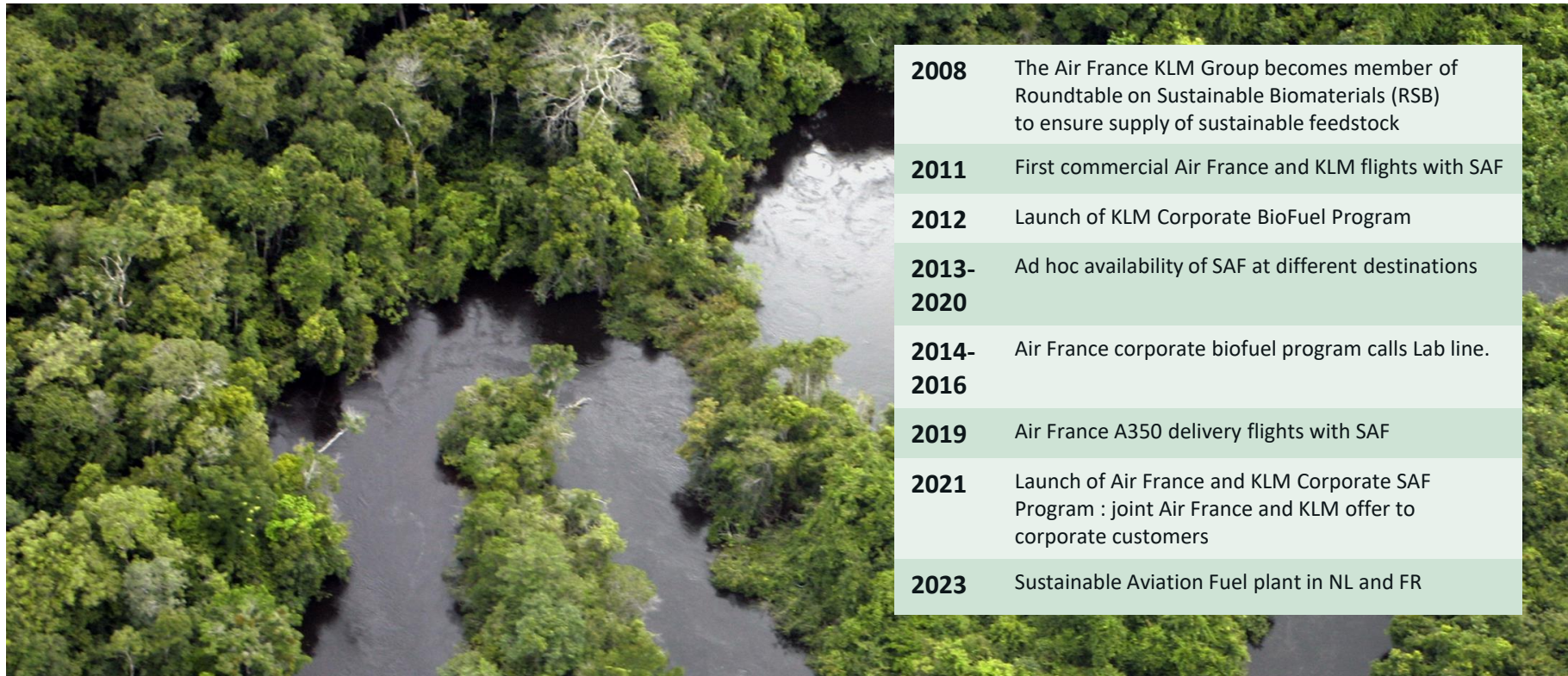


Reinforced role in regards of society (connecting the world, employability, societal impact on HUBs and destinations, ...)

AIR FRANCE ENVIRONMENTAL ROADMAP



PIONEERING IN THE USE OF SAF



2008	The Air France KLM Group becomes member of Roundtable on Sustainable Biomaterials (RSB) to ensure supply of sustainable feedstock
2011	First commercial Air France and KLM flights with SAF
2012	Launch of KLM Corporate BioFuel Program
2013-2020	Ad hoc availability of SAF at different destinations
2014-2016	Air France corporate biofuel program calls Lab line.
2019	Air France A350 delivery flights with SAF
2021	Launch of Air France and KLM Corporate SAF Program : joint Air France and KLM offer to corporate customers
2023	Sustainable Aviation Fuel plant in NL and FR

MAKING SAF AVAILABLE AROUND THE GLOBE



Key objectives

✓ Raise awareness for the SAF market

✓ Stimulate SAF demand and usage

✓ Optimize SAF production

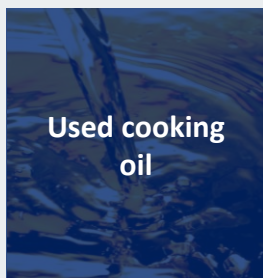
FEEDSTOCK AND OTHER CRITERIA

SAF must meet certain sustainability criteria, eg. limited fresh-water requirements, no deforestation, no competition with needed food production. The suitability of feedstock for SAF is carefully scrutinized.

Air France and KLM only use SAF that is truly sustainable and certified as such (meeting ASTM, RED2, RSB standards).

CURRENT FEEDSTOCKS

- ✓ High cost
- ✓ Relatively easy to convert to jet fuel
- ✓ Availability of sustainable feedstock is an issue



EXAMPLES OF FUTURE FEEDSTOCKS

- ✓ Higher volume
- ✓ Significant technical challenges conversion to SAF
- ✓ Abundantly available



PRIORITIES LOOKING FORWARD

STRIVING FOR COOPERATIONS ON KEY ISSUES



Footprint monitoring

Emissions & costs fcst tool

Non CO2

SBTi



SAF

Production scale up

Affordability

E-fuels

Customers contribution



Innovations

E-VTOL

H2 at airport & aircraft

H2 at airport & aircraft

Solar Impulse Fondation



Stakeholders

Critical Friends Committee

Scientific/academic partnerships

Internal awareness



Customers

Offsetting

Reliable and transparent communication

Sufficiency