



# Welcome to Finnair flight AY2045

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8.2.2024

# Finnair in brief

- Established in 1923
- Flag carrier of Finland
- Fleet of 80 aircraft
- A team of ~5 600 employees
- Listed on the Helsinki Stock Exchange
- Best airline in Northern Europe according to Skytrax, for the 11<sup>th</sup> year in a row



# Our network

- We are proud to connect Northern Europe to the world and offer the perfect gateway for smooth transfer travel via Helsinki Airport
- We fly to over 80 destinations in Finland, Europe, Asia and North America via our transfer-friendly Helsinki hub
- Flights to Doha from Nordic capitals in commercial cooperation with Qatar Airways





**One of the oldest  
airlines in the world**





Our purpose

**Enriching  
life by  
bridging  
the world**



# Cornerstones of our strategy

- Restoring Finnair's profitability
- A geographically more balanced network, connecting Europe to Asia, India and the Middle East, and North America
- Smooth connections via our home hub Helsinki Airport
- A continued strong domestic presence
- Further leveraging various partnerships to strengthen distribution, network reach and product offering
- Being among sustainability leaders in the aviation industry

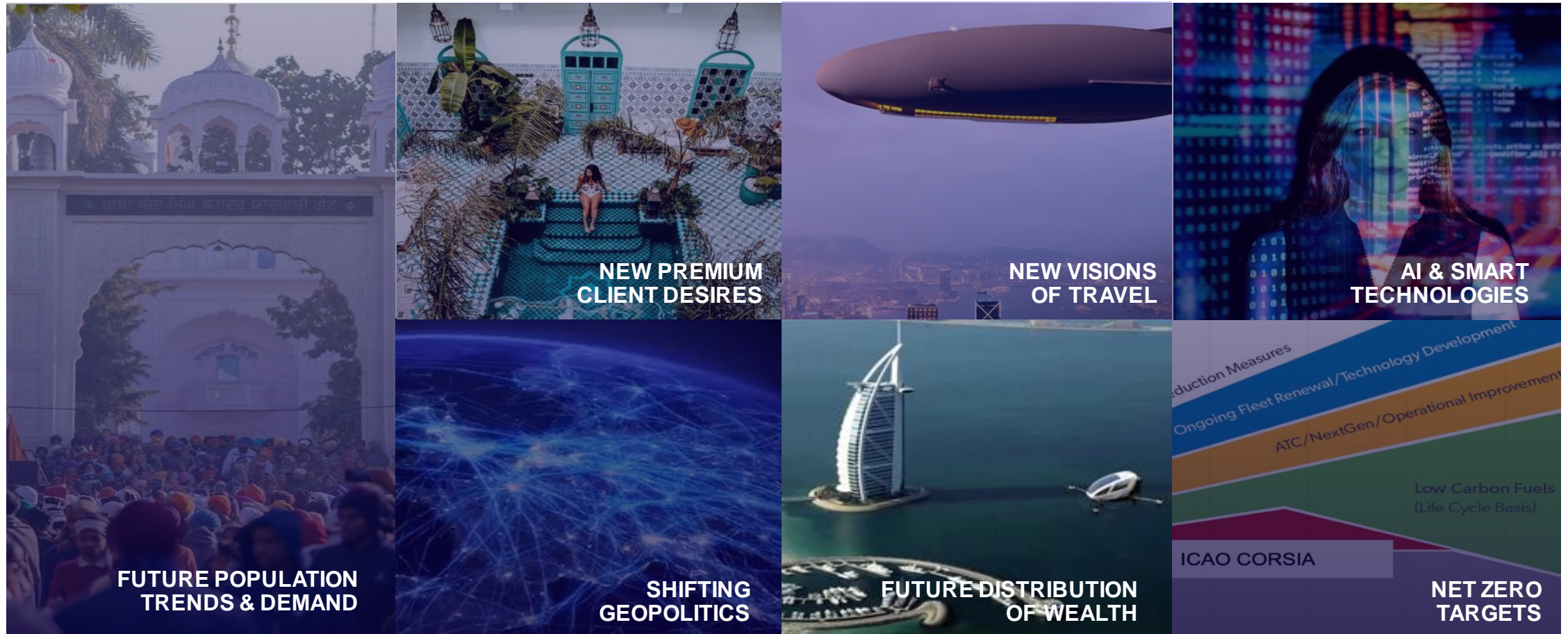




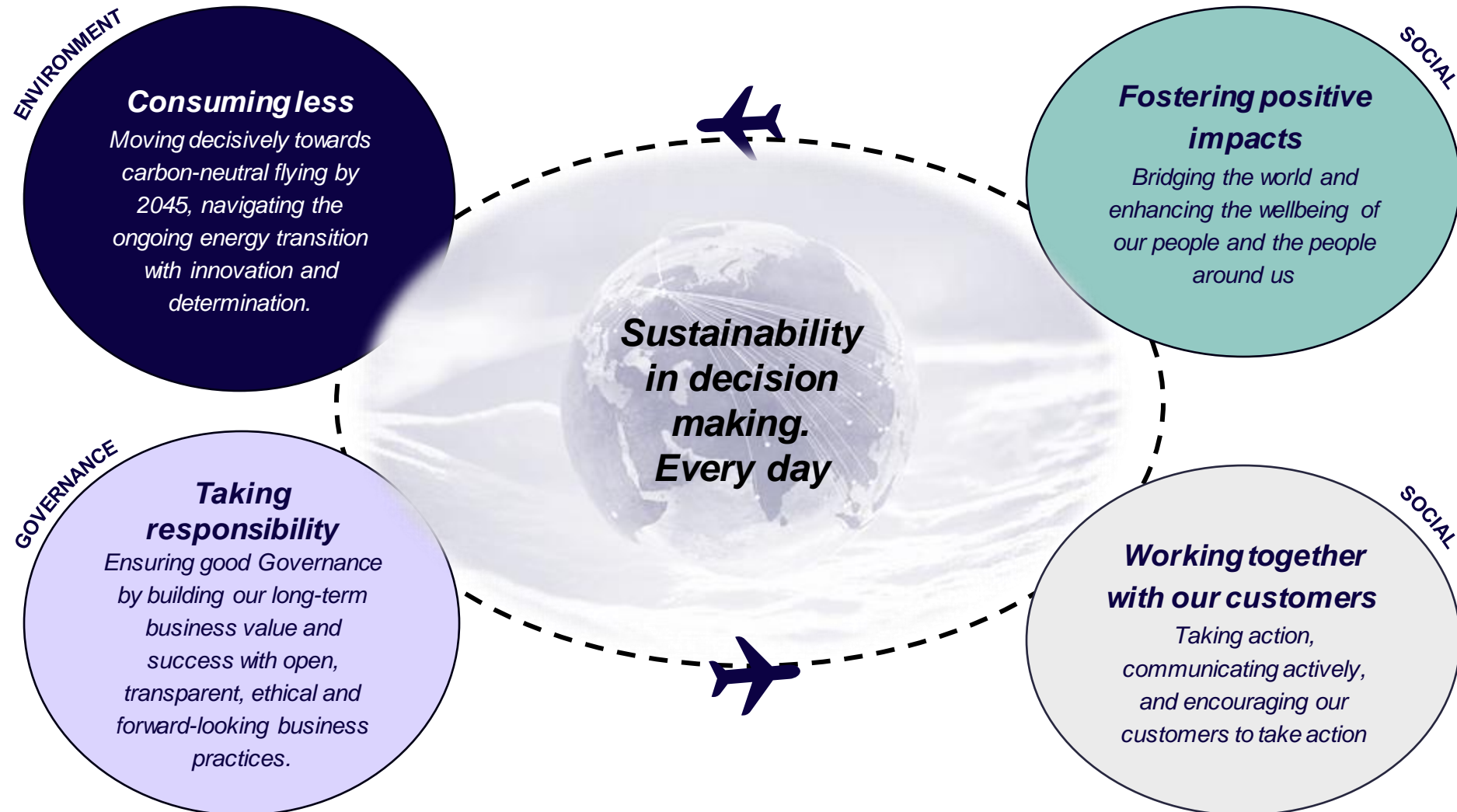
# Sustainability



# Sustainability (Net Zero Targets) is one out of 7 megatrends in Air Travel

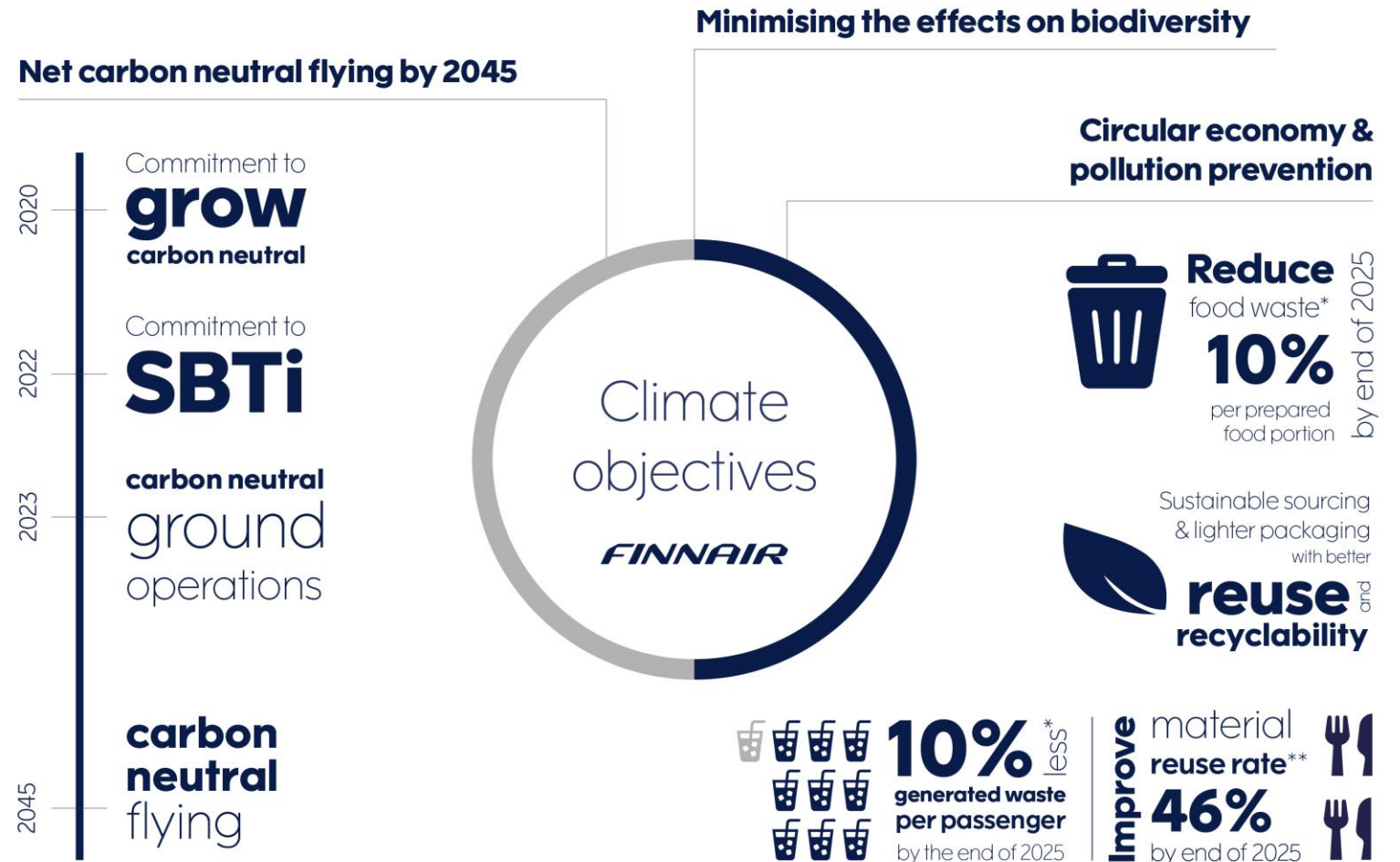


# At the heart of Finnair's sustainability lies a strong commitment to climate action, employee wellbeing, customer engagement, and robust governance



# Our targets

- Climate objectives related to CO2 emissions, circular economy and pollution prevention
- We have committed to setting Science Based Targets to align our efforts with the Paris agreement



\*compared to 2022  
\*\*compared to 2019

# Achieving our CO2 goals

Carbon neutral Finnair by the end of 2045

- Reduction of aircraft weight
- Improving fuel efficiency
- Increasing the use of sustainable aviation fuels
- Offsetting
- EU emissions trading
- Customer choices





# Aircraft weight reduction

Aircraft weight has a direct impact on fuel consumption

Weight is a consideration for all items on board, from seats to trolleys to utensils and food

- We have removed printed material (menus, magazines) and replaced them with digital versions
- Optimising potable water
- Inflight service renewal resulted in 50-300 kg less weight per flight and helped reduce waste



# Fuel efficient flying

Flights planned to be as direct as possible

Pilots trained to optimise fuel efficiency

- Optimising speed and altitude
- Continuous descent landings
- Single engine taxiing at the airport
- Collaboration with air navigation service providers

On-time performance supports fuel efficiency: catching up time in the air consumes more fuel

Fuel-efficiency as a KPI for all personnel





# Sustainable Aviation Fuels

- Partnering with Finnish Neste
- SAF purchases from Aemetis and Gevo together with **oneworld**
- Individual SAF flights since 2011

# On our way to 2045, SAF is the key lever

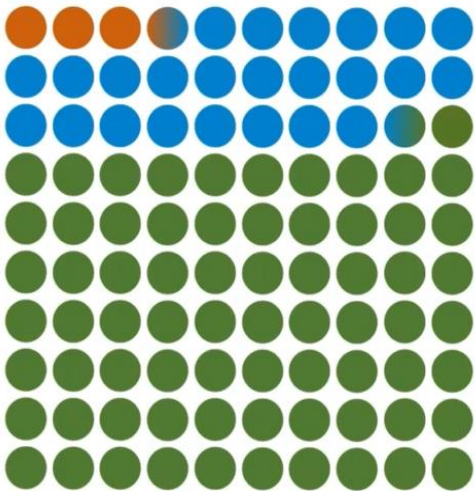
2020's	2030's	2040's	2050's
100 % SAF Engines		Revolutionary design	
	Open rotor engine retrofits		<ul style="list-style-type: none"> <li>• SAF (&gt; 4000 km)</li> <li>• Hydrogen (&lt; 4000 km)</li> <li>• E-Hybrid (&lt; 1000 km)</li> <li>• Electric (&lt; 500 km)</li> </ul>
H2 fuel cell retrofits	New H2 and electric flying concepts		



Electric

Hydrogen

Liquid / SAF



ATAG schematic indication of potential energy use in 2050

# Engaging customers

We encourage our customers to make sustainable choices with us

- Pre-order meals to reduce waste on board
- Pack light to reduce the CO2 footprint of your trip
- Combine different modes of transportation to reduce your CO2 footprint; e.g., train + flight
- Travel to the right direction from the start
- Use our offset service to reduce your flights CO2 emissions through a combination of offset projects and SAF



Want to cut your CO2 emissions? Reducing 5 kg of baggage means a CO2 reduction of 5%. Traveling light makes sense.



# A holistic approach to sustainability



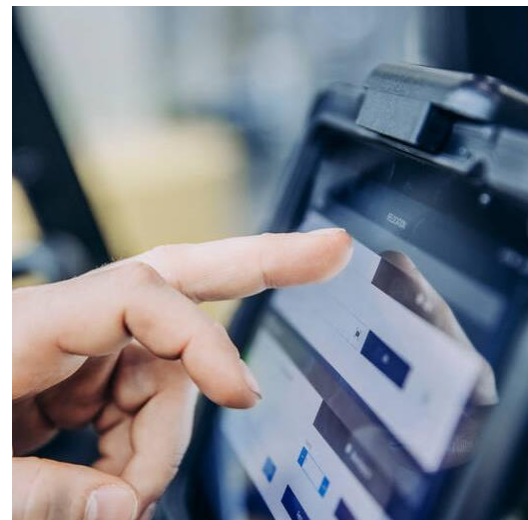
## Shipper/forwarder actions:

- Choosing shortest possible routes
- Combining flying with other modes of transportation
- Choosing an airline with a modern fleet
- Choosing lighter packaging materials
- Helping airlines optimise load factor and avoid last minute cancellations
- SAF purchases



## Stakeholder collaboration:

Everyone's actions and contributions are needed to create sustainable logistics solutions for the future.



## Cargo customer service and operations development with modern technologies

(including automation and AI) to eliminate waste in the process and to ensure also speed, quality and customer experience.



## Flight operations and aircraft technology / fuelling actions:

Optimising the shortest flights and utilizing the newest fleet and renewable fuel (SAF) contribute to the most sustainable way to transport goods across the globe.



# Environmental Sustainability in Cargo





# On our agenda

- COOL solar park upgrade – a total of 2990 now producing 37% of the terminal's energy consumption
- Weight reduction efforts:
  - Lighter & recyclable materials for pallet building under investigation
- Circular economy efforts
  - Better re-use and recycling of plastics (ULD covers etc.)
- Sustainable offering for customers
  - SAF (sustainable aviation fuel) and offsetting – CHOOOSE compensation platform for single shipments
- ONE Record development to come
  - Enables smooth data sharing accross transport chain - more info: <https://www.iata.org/en/programs/cargo/e/one-record/>



Read more:  
<https://cargo.finnair.com/en/sustainability>

# Matching customer needs for sustainable cargo solutions



Launched  
in Sep 2022

The screenshot shows a web interface for calculating carbon footprints. At the top, it states "Your carbon footprint is 0.38 t CO<sub>2</sub>e" with a sub-note "That's the same as driving a petrol car for 13 days". Below this, it shows a flight route from Helsinki (HEL) to Los Angeles (LAX). A question asks "How would you like to reduce your carbon footprint?". Two options are presented in purple boxes: "REPLACE FOSSIL FUEL" with "Sustainable Aviation Fuel" and a 91% reduction, and "ABSORB CARBON" with "Reforestation" and a 9% reduction. A progress bar at the bottom shows the total cost as "EUR 11.77" and a "Continue" button.



## Carbon offset solution by CHOOOSE

- SAF purchases for smaller forwarders + individual shippers
- With an offsetting solution (to complement partial SAF purchases)

## SAF compensation solution for bigger volumes: carbon reductions for SAF used within Finnair network

- Reporting + certification + auditing/verification
- Process (roles and responsibilities)
- Contracts

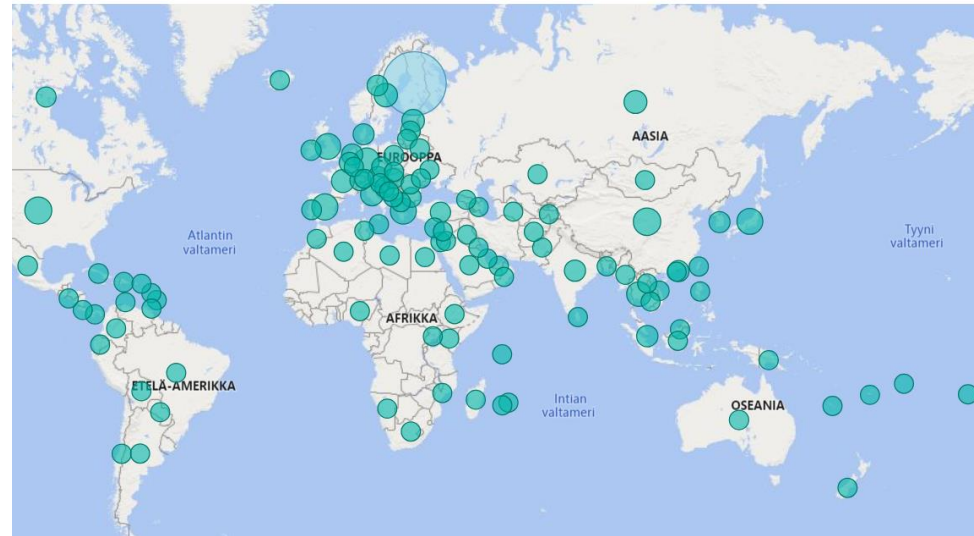
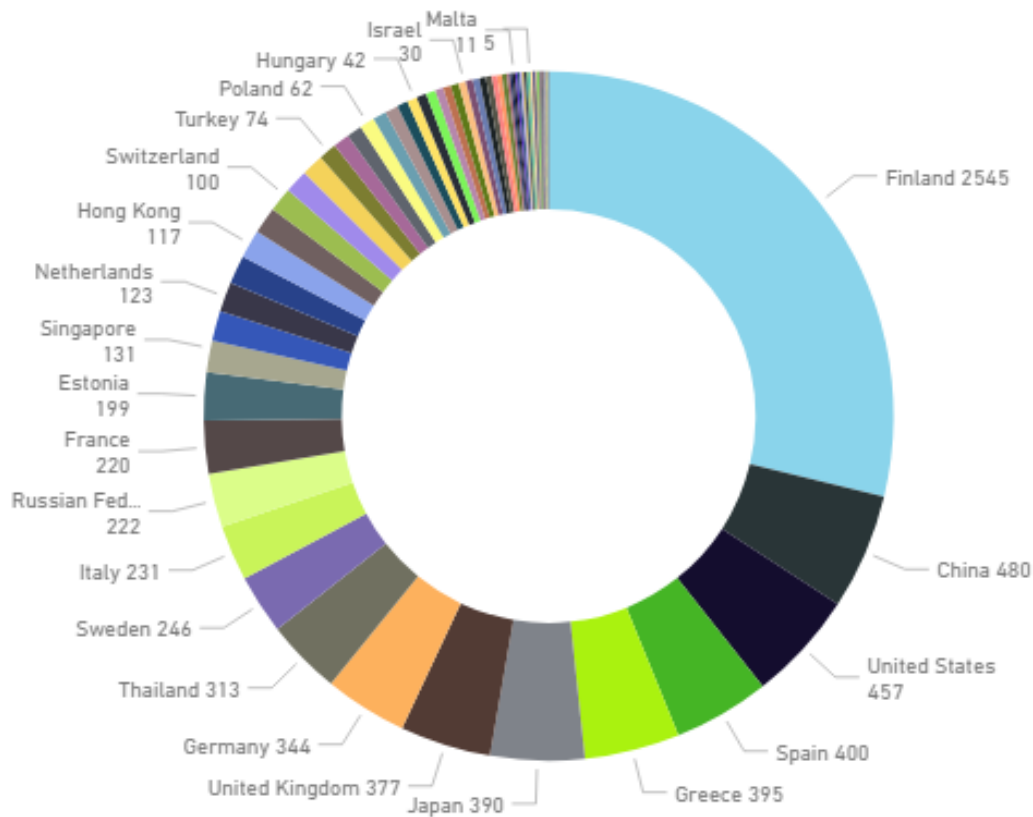


# Environmental sustainability in Procurement



# Finnair supplier base

- ~ 8000 suppliers in supplier master
- ~ 4500 active suppliers during past 12 month



## Managing supplier base in aviation:

- Supplier – Buyer relationships may last decades, we know suppliers and relationships with big suppliers are well managed.
- Market situation, negotiation power and dependence vary greatly based on category, geographical area and scope of business.
- Lots of mono-/duopolies and government owned supplies
- Aviation operations are very regulated, but with common global, standard terms
- All flight operation related suppliers are always contracted before the first flight and regular safety audits are mandatory for flight operation related suppliers.



# Purpose of the environmental framework for suppliers

## The framework proposes how to:

- maintaining active dialogue to share our Nordic values throughout our network
- choose what suppliers to focus on with environmental sustainability (Finnair has ~4500 active suppliers)
- integrate environmental sustainability with existing Finnair Procurement processes in *supplier selection* and *supplier relationship management*
- circumvent the question "***how much more can we pay for the sustainable alternative?***"

## The framework does not:

- in itself set any ambition level with supplier carbon reduction or other environmental targets
- consider social and governance sustainability which are addressed mainly with SCoC and self-evaluation questionnaire



# Welcome onboard to the journey to make the future of flying.

We need early action in this decade boosting  
technological innovation and economies of scale  
enabling large-scale GHG emissions reductions  
in the 2030's and 2040's.

***FINNAIR***