ROOPE KEKÄLÄINEN LYGG CEO Co-Founder

REIMAGINING REGIONAL TRAVEL

PLATFORM'S UNLOCKING UNTAPPED TRAVEL NEEDS AND FUTURE TECHNOLOGIES



Education:

- + Flight Instructor FI(A)
- Commercial airline pilot CPL(A), ATPL(A)
 Backround:
- ✤ Founder Private Skies Oy 2014-2020
- Founded an Airline Europe's second SE-IMC AOC certificate 2016
- Co-Founder and CEO of the worlds first regional air-travel platform LYGG



ROOPE KEKÄLÄINEN CEO, CO-FOUNDER

Mission: "Changing aviation to a force for good"

WRIGHT BROTHERS 1903

In 1903 The New York times predicted that it would take between one to ten million years to develop airplanes. Nine weeks later...

11 YEARS LATER 1914 FIRST COMMERCIAL FLIGHT



33 YEARS LATER 1936 PLANE THAT CHANGED THE WORLD DC-3



48 YEARS LATER REVOLUTION OF COMMERCIAL JET AIRLINERS

AUTO AND ALL MA

MANULAND LOWER

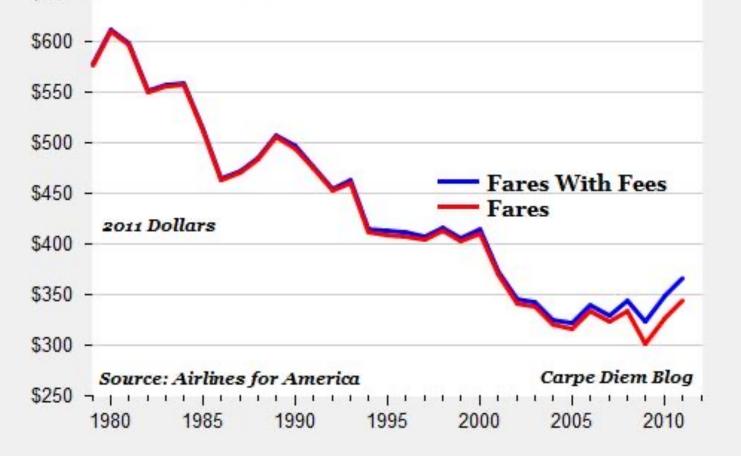
67 YEARS LATER 1970 BOEING 747 ENTERED SERVICE

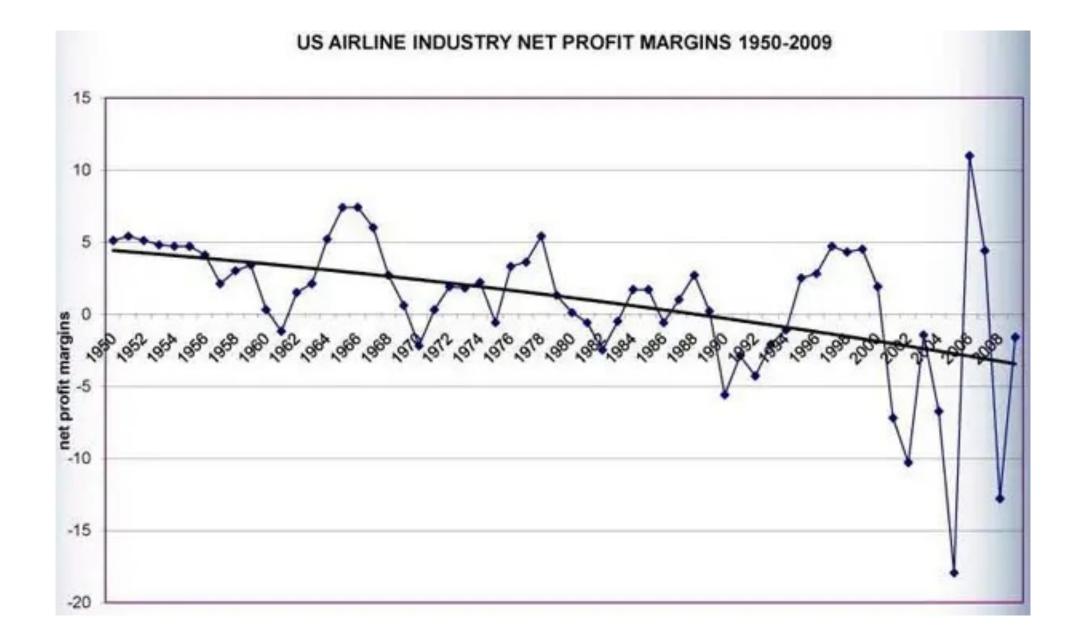
REVOLUTION

LOW-COST CARRIERS 1973



Average Round-Trip U.S. Domestic Airfares Inflation-Adjusted 2011 Dollars, 1979 to 2011 \$650 -









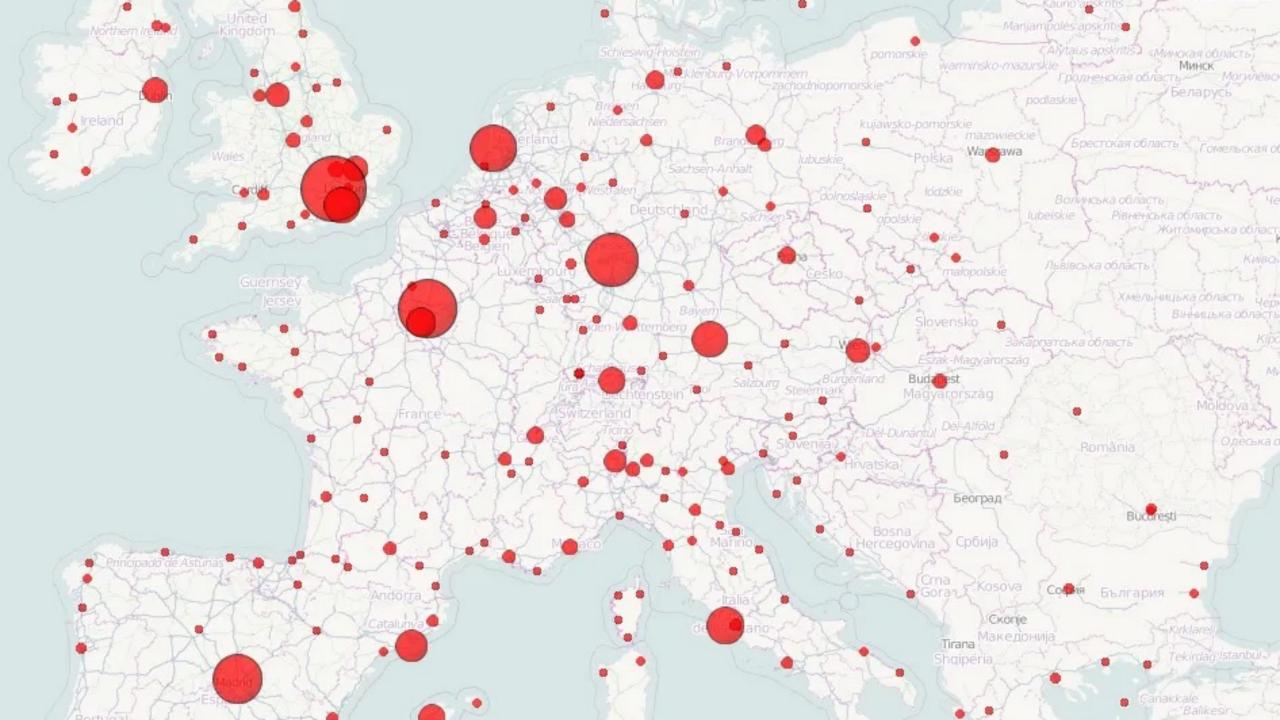
© Kadir Ilboga/AA/picture alliance

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Eurowings

Eurowings

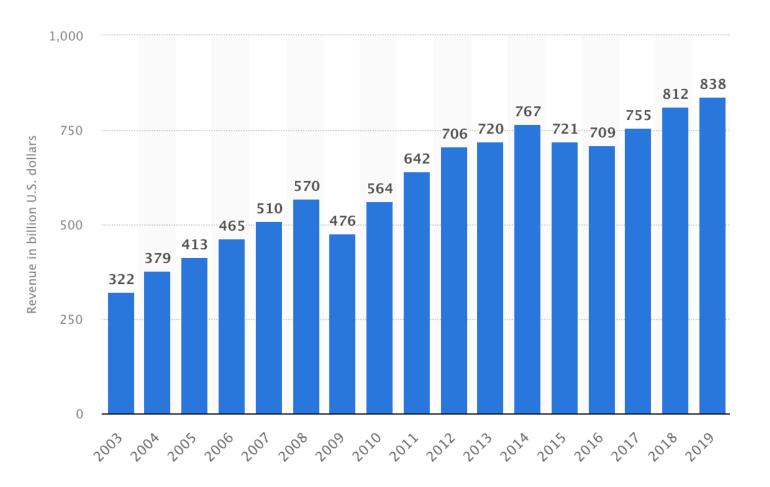
Eurowings *







REVENUE COMMERCIAL AIRLINES WORLDWIDE 2003-2019



COVID-19 IMPACT

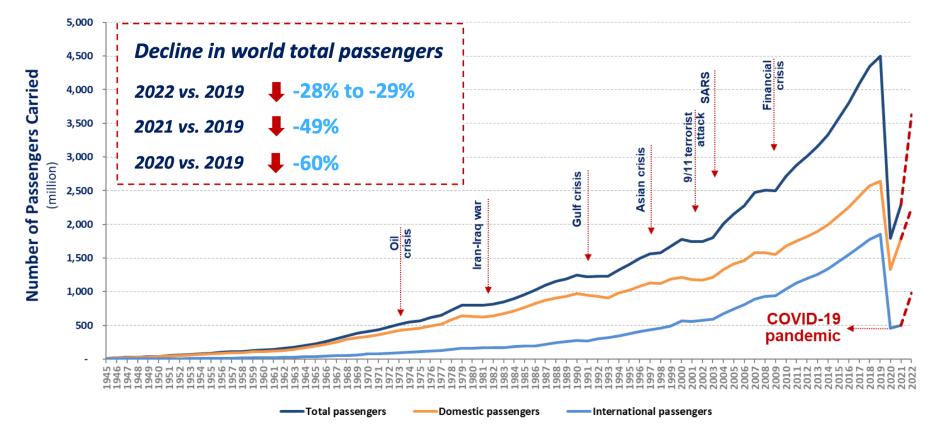
Air travel down 60 per cent, as airline industry losses top \$370 billion: ICAO

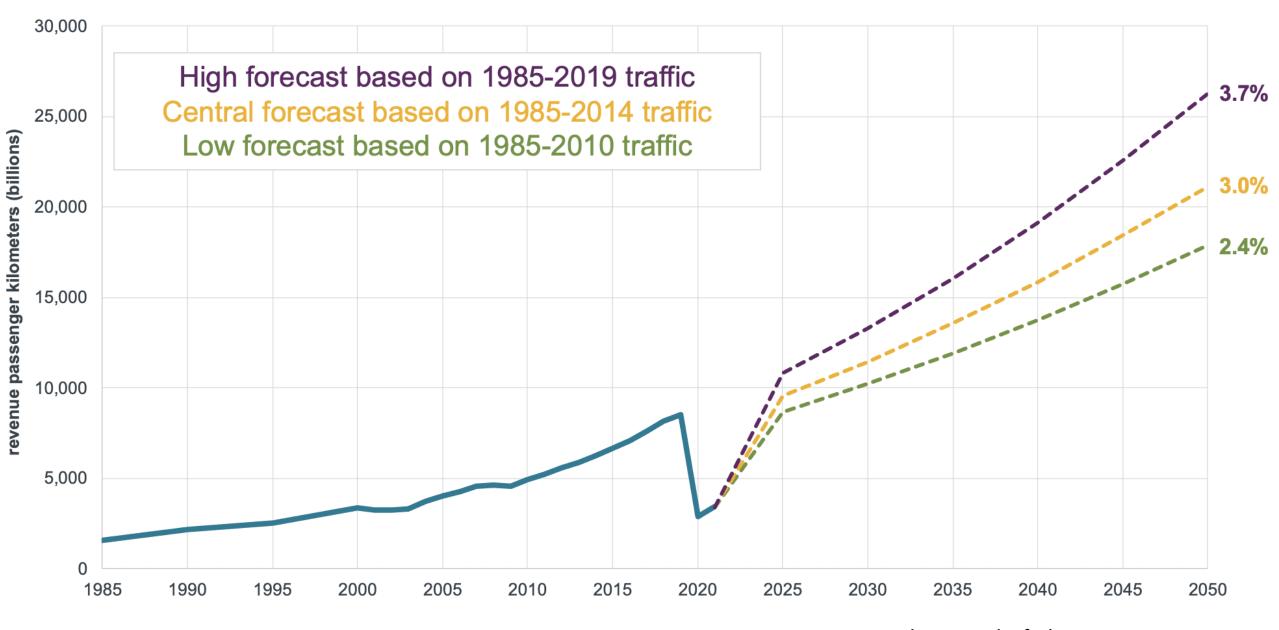
Covid-19: challenging time ahead for aviation

Smaller regional airports have recorded the greatest decline in direct flight connections, particularly in passenger flights. Treviso (Italy) lost 95% of its connections, Vaasa (Finland) 91%, Quimper (France) 87%, and Burgas (Bulgaria) 82%.

Regional airports are key for the economic recovery and territorial cohesion in the EU

World passenger traffic evolution 1945 – 2022





Source: International Council of clean transportation

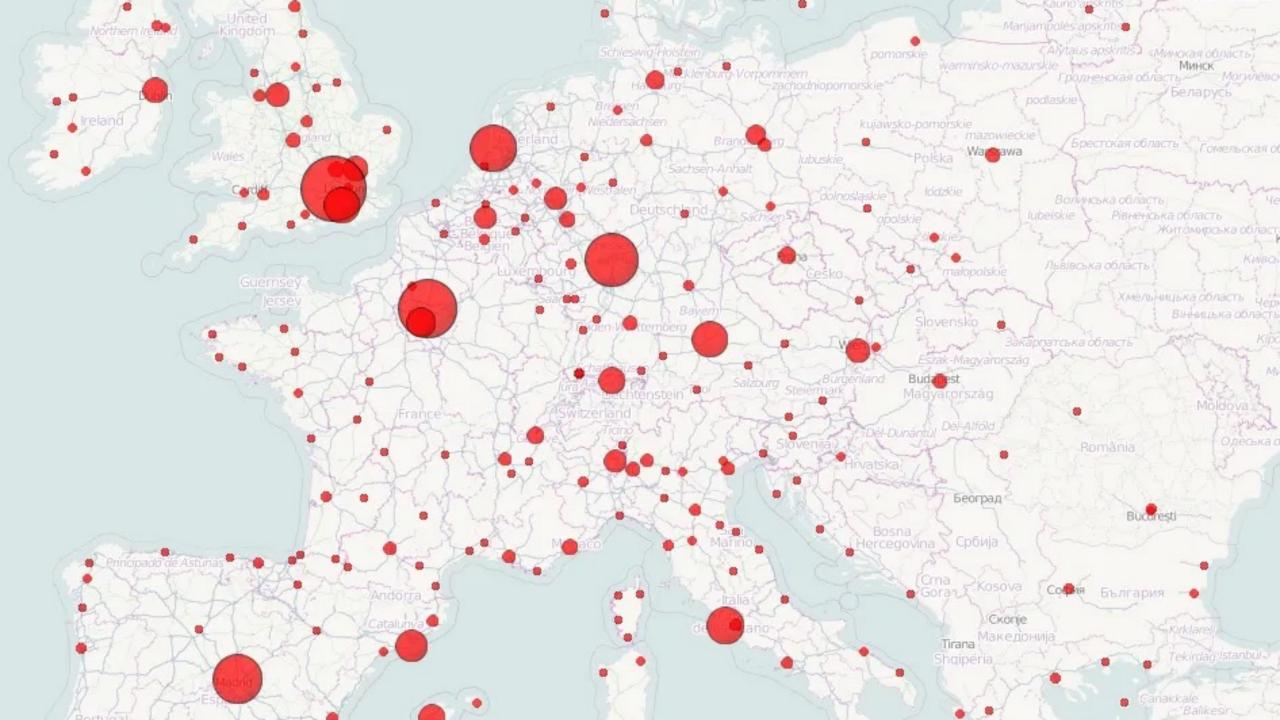
National Extra-EU 16% 37% **REGIONAL TRAVEL MODES OF TRAVEL** HOP./ DB Lufthansa CityLine Intra-EU 46% LONG-HAUL TRAVEL >2000KM INTRA-CITY TRAVEL <200KM **REGIONAL TRAVEL 250-1000KM Social Factors** Max wellbeing 📀 CO2 min Corp. & Individual productivity CATHAY PACIFIC Cocal community V Time savings Gett. benefits Competitiveness whim BRITISH AIRWAYS edom of mobili Max comfort \bigtriangledown KLM Uber VOLOCOPTER Bolt FLEX FIX BLADE Big cities Regional cities virgin atlantic Fixed routing & schedules Flexible routes & schedules 🗢 moovit Large crowds No crowds ARCHER Big infrastructure Less infrastructure -----Sjoby TIER න් Emirates Personal factors ---- LILIUM Time savings

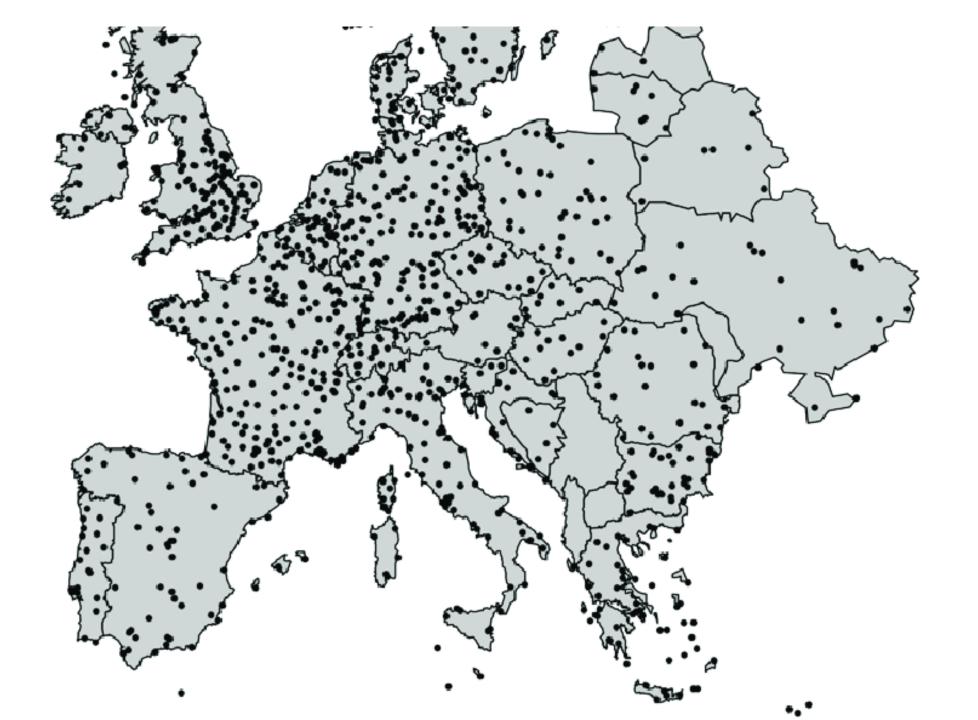
Opportunity to revolutionise regional travel and improve well-being and productivity

Overview of EU-28 air passenger transport in

2018

 Minimal number of modals and/or changes





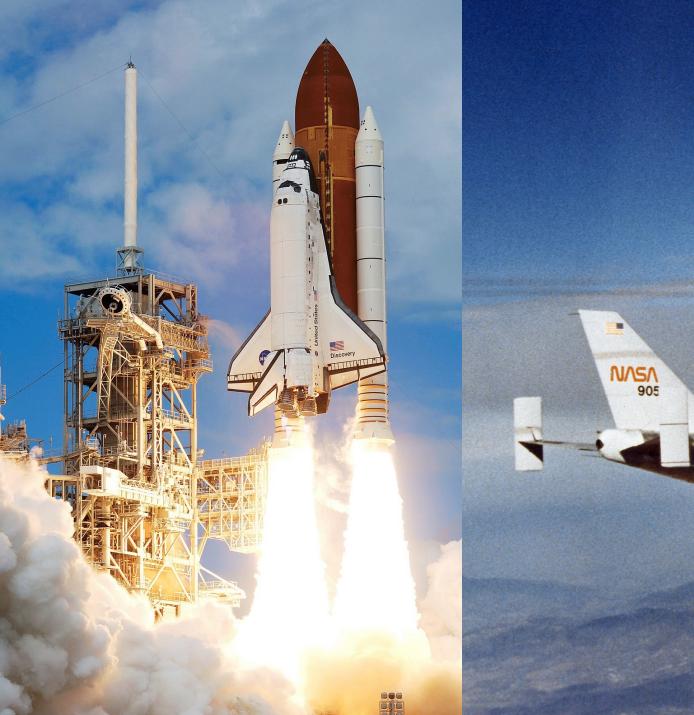
SUSTAINABLE DEVELOPMENT ROOM FOR A LOT TO CHANGE

- Better for the enviorment
 - New technology innovations
 - New business models
- Faster connections
 - New business model
- More felxible and tailored solutions for the regions
 - New business model

→ NEW WAY OF THINKING

NEARLY ANYTHING CAN FLY ...







E-VTOLS 2029?

SOLUTION FOR SHORTER RANGE





TIME 2030

Hydrogen-Powered Planes Could be the Best Bet For Greener Air Travel





9–19 seats 300 NM range **First commercial** offering

FULL ELECTRIC 2035?

SOLUTION FOR MEDIUM RANGE

OMBARDIER

ATION

2000

HYBRID 2027 SOLUTION FOR ADAPTION







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emirates.com

DON'T SOLVE THE PROBLEM

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2)

LOW-COST CARRIERS

El-ESZ //

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DON'T SOLVE THE PROBLEM EITHER

A GARGE CODE

NOVELTIES FOR THE WORLDS 1%

HOW DO WE FIX IT

Suitable equipment available today and future innovations around the corner. Infrastructure ready in place.



Innovative new business model

LARGE AIRLINES

STUCK WITH THEIR BUSINESS MODEL



Lufthansa CEO: "It is time to take it to the next level"

- New seats in all classes
- Upgrade catering and worldwide lounge network Boost digital services
- Improve ground services in Frankfurt
- → Achieving this means \in 2.5bn investment and that is just until 2025
- \rightarrow Lufthansa Group: over 750 aircraft, smallest aircraft 100 seats

Source Monocle January 2023

Low-Cost carriers 2023-

- Will grow in primary airports
- Leasure travellers will be the driver in growth •
- Avrage plane size 150 seats

"LYGG is the first in the World business travel platform that brings direct and customized connections to any desired area as a service

LYGG concept is a true disruptor in aviation opening a totally new market where time, costs and CO2 are saved"



IN THE NEWS

- "Aviation's new model flies from Tampere to Stockholm"
- 🤣 🛛 "The World's first Air & Taxi service in one APP"
- "LYGG to build a commuter-belt through its smart mobility platform"
- "LYGG offers a comprehensive and fast travel experience"



Kauppalehti

















LOVED BY CUSTOMERS

- "Using LYGG we can utilize Finnish work force in the Swedish market to grow faster and increase performance."
 - Kimmo Riihimäki CEO Vesivek
 LYGG route: Tampere - Stockholm
- "The chauffeur service and flight are designed in such a way that you can continue without delay" – Jacob Wert Aviation reporter

LYGG route: Frankfurt – Luxembourg – Frankfurt

"Ridiculously awesome service"
 – Rubert Hoffschmidt Co-Founder The Axel Springer Consulting Group

LYGG route: Berlin – Prague – Berlin

- "A new era of travel has started"
 Timo Dreissigacker JW Marriott Group
 LYGG route: Frankfurt Paris Frankfurt
- "Very efficient 'flow' at the airport, possibility of walking through without any kind of hold-up on the way, a very low risk of unexpected complications"
 Travel Manager Leading Pharmaceutical Company

Traver manager Leading Mannacedical Col

LYGG route: Frankfurt – Oostende – Frankfurt

OMPANY CONFIDENTI.

90% CO2 REDUCTION TODAY EMISSION FREE TOMORROW



41

90% REDUCTION ON CO2 CASE TAMPERE - STOCKHOLM

Direct connection vs travel via Helsinki reduces 43% of Co2 per traveler 171kg Co2 vs 93 kg Co2

1

2

3

Sustainable Aviation Fuel reduces up to 80% of Co2 compared to traditional Jet Fuel (ICAO) 171kg Co2 vs 18 kg Co2

Direct connection reducing 43% and SAF reducing 80% of the actual Co2 consumption reduces 89% of Co2 compared to travelling via Helsinki



HYBRID 2027 SOLUTION FOR ADAPTION

Low infrastructure requirements >70% lower operating cost than eVTOL

Straightforward path to certification as a fixed-wing aircraft

CO2 reduction

-50%

Cost rediction

-25%

9 passengers 2,500 lbs + 1 Pilot **500** miles plus 45 min reserve

200 MPH Cruise speed **300**FT **x 100**FT Ground footprint No charging infrastructure required

ECTRA AED

75 dBA at 300FT Quiet takeoff comparable to urban ground traffic

EIC TRANSITION Project HYBRID – Reducing Co2 up to 95% in Regional Airtravel





The European Innovation Council Transition project HYBRID targets to showcase and scale up to 95% Co2 reduction in pan-European regional aviation

The project HYBRID's each selected consortium member and funding support from EIC Transition program have a pivotal role in changing regional aviation for better

The project HYBRID consists of four key phases:

1 Showcase up to 90% reduction within operations in Finland from Helsinki-East aerodrome. The focus on digital aerodrome services, the use of Sustainable Aviation Fuel, charging of hybrid aircraft, dynamic planning, and smart asset allocation

2 Scaling the concept to central Europe, enabling outcomes that benefit local communities, companies, and individuals at large

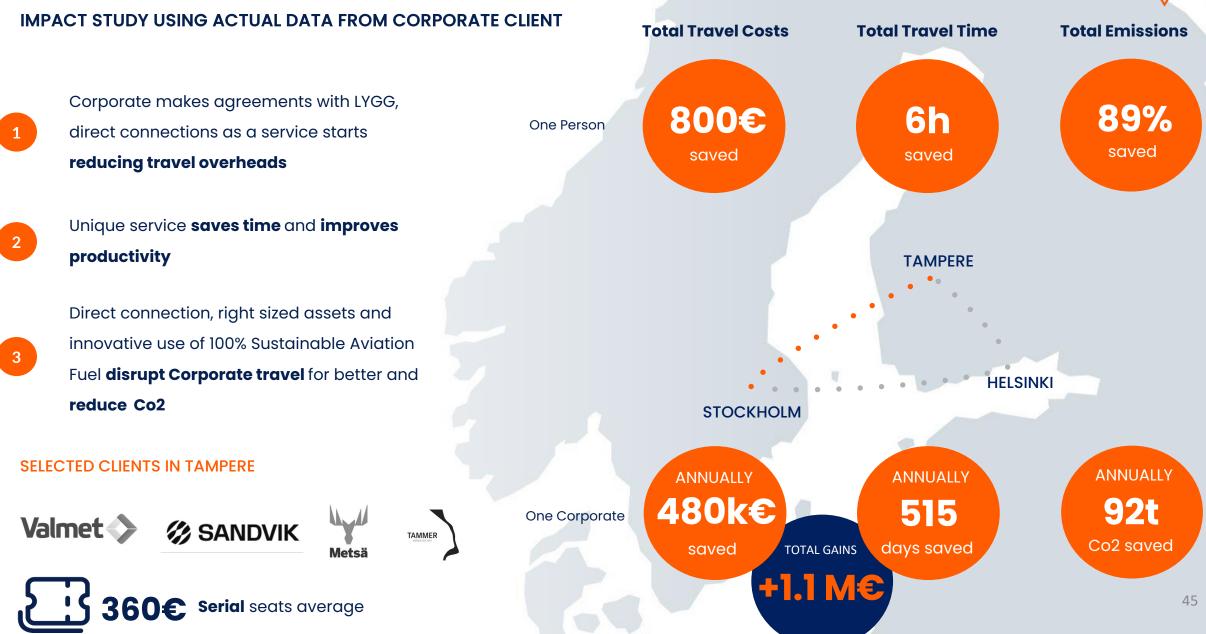
3 Scale, with funding support from EC and European Investment Fund to upgrade European aircraft with a new hybrid engines

4 Build on continuous transition towards electric aviation and STOL aircraft, including concepts for short takeoff and landing strips from central locations



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EMPIRICAL EVIDENCE TAMPERE - STOCKHOLM



CASE TAMPERE - STOCKHOLM

SCHEDULE FOR BUSINESS TRAVELLERS, EASY PRICING

Tampere - Bromma	08:20	08:30	Ma – Pe	
Bromma - Tampere	16:50	19:00	Ma – Pe	

Scheme	Price / Oneway Disco	ount %
Pay Go	490,00 €	
Serial Ticket: 2 oneway tickets / month	441,00 €	10 %
Serial Ticket: 4 oneway tickets / month	431,20€	12 %
Serial Ticket: 6 oneway tickets / month	421,40 €	14 %
Serial Ticket: 8 oneway tickets / month	411,60€	16 %
Serial Ticket: 10 oneway tickets / month	401,80 €	18 %
Serial Ticket: 20 oneway tickets / month	367,50 €	25 %
Serial Ticket: 30 oneway tickets / month	343,00 €	30 %
Serial Ticket: 40 oneway tickets / month	318,50€	35 %
Serial Ticket: 50 oneway tickets / month	294,00 €	40 %

Changes and cancellations: **free of charge up to 24 hours prior to departure**. No-show fee 150 € (fail to arrive 10 minutes prior to departure)

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Trips for	Thursday 12.10.	
From Tampere	• + •	™ Stockholm
Tampere 08:20	→ Stockholm 08:30	One way €490
() 1h 10m	🛪 Jetstream 32	🖢 19 seats
From Stockholm	• •	Tampere
Stockholm 16:50	→ Tampere 19:00	One way €490
() 1h 10m	🗙 Jetstream 32	🖢 19 seats
X Book	₩ 🔮 Trips Contac	

SMART ASSET ALLOCATION

6-9 SEATRES











SMART ASSET ALLOCATION

18-33 SEATRES













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THANK YOU!

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