

FAIR Kick-off meeting “Promote electric aviation” 06.10.20

“Regional connectivity between communities and people”.

Mathias Lindström:

- ✓ We have energy and technology, and the ambitions. Also, support from politicians.
- ✓ Strong partnership
- ✓ Very large interest - 120 participants in the kick off today

Joachim Strand:

- ✓ Become a leading region in this area; electric aviation. Involvement of the private sector. On the national level in Finland there is a growing interest in electric aviation. The same in Sweden and Norway.
- ✓ You also need regional initiatives that want to compete on a global market in a sustainable way.
- ✓ By helping the world to accelerate – we take steps in the right direction to meet the climate objectives.

Jarma Mäntynen (Professor and aviation expert):

- ✓ The new era of aviation.
- ✓ The existing extensive network of airports for the use of diverse aviation services.
- ✓ New technology and new business models enable the development of aviation markets.
- ✓ Multiple different kinds of airlines and airports operators.
- ✓ Should be customers oriented and cost-effective (technology and new models). The purpose is to fulfil is to customer’s needs.
- ✓ More automation and remote technology will be used.
- ✓ New logic: not so HUB/SPOKE-oriented, more point-to-point traffic and destination driven.
- ✓ In Norway; All under 90 minutes flights shall be electric by 2040.
- ✓ Uber aims for shared urban and suburban aviation. The service is schedules to release in 2023.
- ✓ We should create new business models to obtain prosperous aviation markets in the future.
- ✓ CCC: Carbon free – Cost effective – Customer oriented transport

Robert Lindberg (Airport manager Skellefteå airport)

- ✓ Take it back 15 year. The technology was at a different stage. Now we talk about volocopter (Volocity). The way we travel will change dramatically. We will act here in the North to create possibilities for people living here. Hydrogen, electric aviation and biofuel will make a change.
- ✓ Business is dependent on good communications. With new solutions we can increase our economy.
- ✓ We have the comparative advantages, such as the biofuel, green energy, cool climate, expertise, minerals etc.
- ✓ We have very good co-operation skills and experience in our region.

Andreas Forsgren and Isak Brändström (Project managers)

- ✓ Geography and transport infrastructure in the region: contain natural barriers. Challenging east-west transport solutions. Thus, we need cooperation in a cross-border perspective.
- ✓ Aim: lower emissions, lower maintenance costs.
- ✓ Official start of the project: 01-05-2020 – end 30-06-2022.
- ✓ The aim is to develop methodology supporting an early and efficient commercialization of electric-powered regional aviation in the Kvarken region.
- ✓ Where to implement EA, and knowledge on regional effects.
- ✓ Examine financing options
- ✓ Will deliver four reports in the project.
- ✓ Develop the methodology for implementation of electric aviation
- ✓ The situation of global aviation industry – opportunity for a fossil-free aviation.
- ✓ Our competence network will help us to succeed
- ✓ Covid-19 has affected many parts of the planning – and will do so over time

- ✓ The transition will take time and will require effort from different stakeholders.
- ✓ Big airline manufactures are waiting for new solutions.
- ✓ Today's battery capacity must improve if we want to carry more than 50 passengers
- ✓ Today; one certified electric aviator?
- ✓ Financing; study what are the opportunities and what are the costs compared to today?

Åsa Ögren (Region Västerbotten)

- ✓ Co-operation is key
- ✓ We must work to meet climate objectives
- ✓ We have a vast geography, we need new transport solutions
- ✓ Together we need to work both practical and visionary

Triine Varblane (Clean Tech Project)

- ✓ Gender equality will be better with better communication, and more sustainable methods and results in mor innovative solutions
- ✓ We need to develop new networks and meet points locally, electric aviation can be an important part of that

- ✓ Local leadership is needed for sustainable solutions

Lars Westin (Umeå University) WP1

1. Focus on market analysis
2. Routes for the region
3. Regional impact and cross-border innovation

Supplyside:

- ✓ What will EA add compare to the current aircrafts
- ✓ The costs relative other modes/ distances (social aspects), safety and environmental impacts.
- ✓ Numbers of actors will be important, in order to avoid monopolies.

Demandside:

- ✓ Travel propensity
- ✓ Relative travel costs
- ✓ Inbound passengers

Routes for the region: Within Botnia Atlantica Region, to/from other regions.
Opportunities related to EGTC and the acceleration of implementation of EA.

Workpackage 3: How do we strengthen the societal benefits of electric regional aviation?

Last reflections from stakeholders

- ✓ We have the elements in place to make the project successful.
- ✓ We all have a responsibility to contribute to change.

Jeroen Peeters (RISE) WP3

- ✓ Cross-Border innovations processes
- ✓ Examples on how things can work in a new environment:
 - Booking
 - Airport experiences
 - Business models
 - Competing means of transportation
- ✓ Competence networks in the region and beyond
- ✓ Workshops, seminars etc.
- ✓ Communications extremely important

Fredrik Kämpfe (Conferencier)

- ✓ Outlook:
 - Commercial flight with 20 pax: 2026-2030
 - Small aircraft, private aviation: 2021