



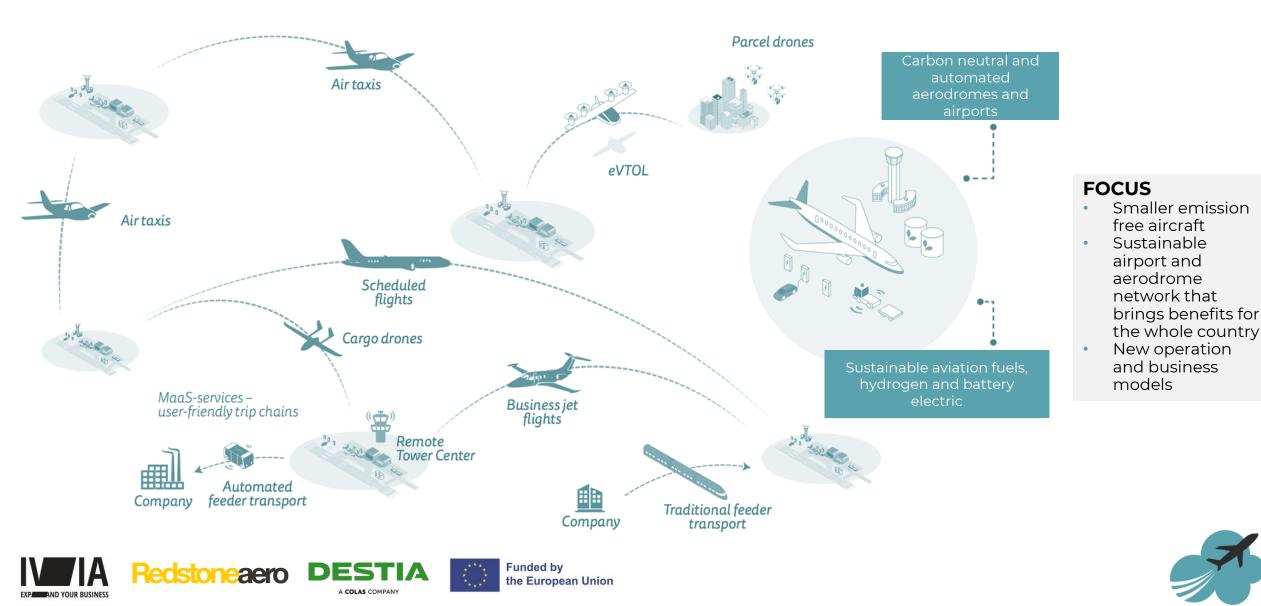
NARVA-OLGINA BUSINESS PARK & AERODROME

A feasibility study for a sustainable and competitive business ecosystem



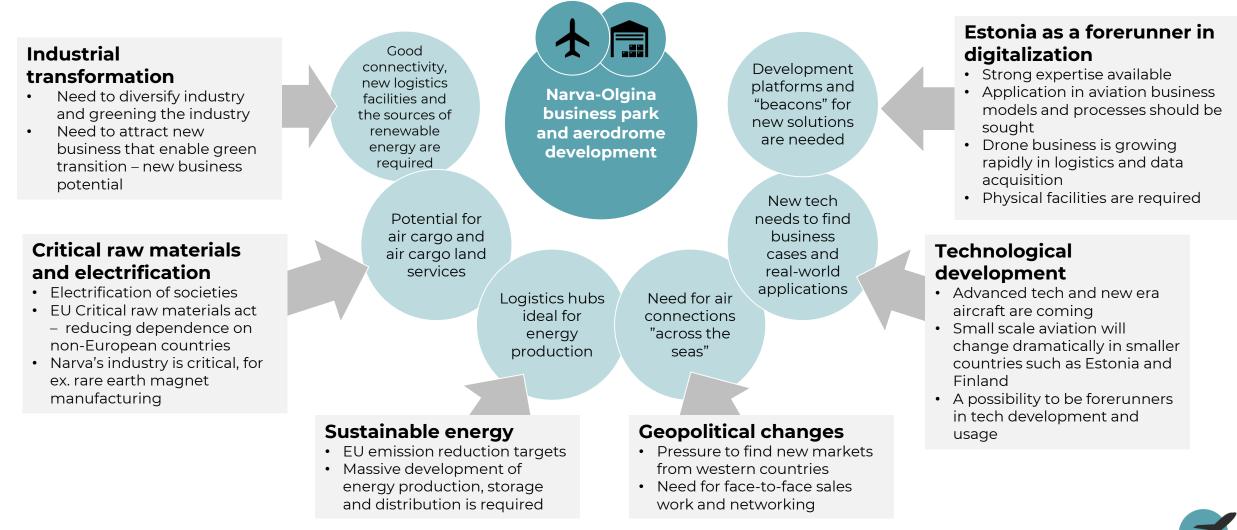
VISION FOR ESTONIAN NEW ERA AVIATION

The role of Narva aerodrome is to act as a forerunner for new era aircraft and operations models



KEY DRIVERS FOR DEVELOPMENT OF THE NARVA-OLGINA BUSINESS PARK AND AERODROME

6 drivers can be identified that argue for the development







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NARVA AERODROME CATCHMENT AREA AND ACCESSIBILITY

Accessibility to western countries is vital in the current operational environment

EU population:

- 1.95 million people within 200 km
- 6,81 million people within 400 km
- 13,5 million people within 600 km
- 19,8 million people within 800 km
- 39,2 million people within 1,000 km

of Narva aerodrome

+ population in non-EU countries

Around 140 major airports and 240 other airfields within 1,000 km of Narva aerodrome.

Source: Eurostat (2021 population census: preliminary results)

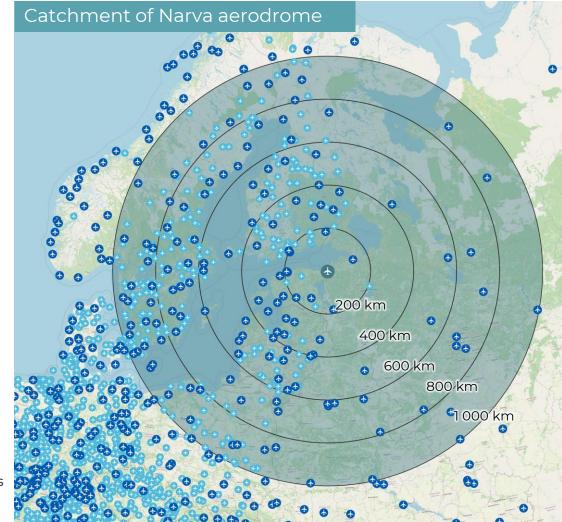
- Narva aerodrome
- 👌 Major European airports
- Other airfields













IDA-VIRUMAA AS BUSINESS REGION

Versatile business spread across the county forms the basic potential for aviation services

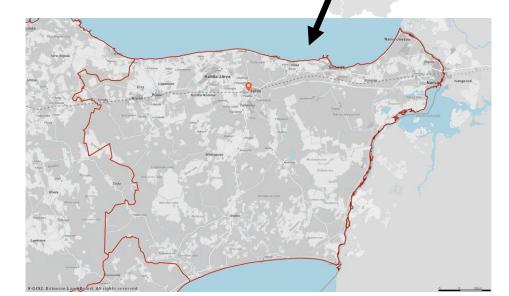


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TURNOVER IN 2021 3 200 million € **EXPORTS IN 2022** 943 million € 4,4 %

Source: Statistics Estonia



A COLAS COMPAN

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THERE ARE OVER 6 600 COMPANIES LOCATED IN THE IDA-

VIRUMAA COUNTY

68 COMPANIES WITH 50+ EMPLOYEES

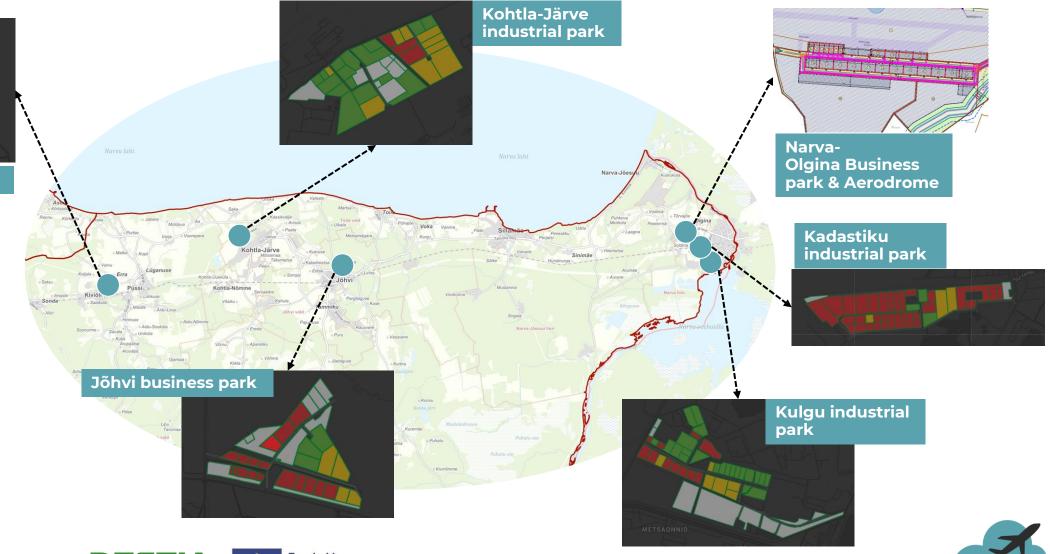
Vast potential for ex. for hydrogen and synthetic fuel production



CURRENT AND PLANNED BUSINESS AND INDUSTRIAL PARKS



Kiviõli business park





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EXAMPLE OF CUTTING-EDGE TECHNOLOGY COMPANIES INVESTING IN THE REGION – Neo Performance Materials

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In the first stage, a €100 million magnet factory will be built in Narva (building now)
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In the second stage, a €150 million extensions will be built (building starting in 2026)

Neo Performance Materials (NPM) which owns Estonia-based rare earth metals maker Silmet will construct a magnet factory and R&D center in Narva.



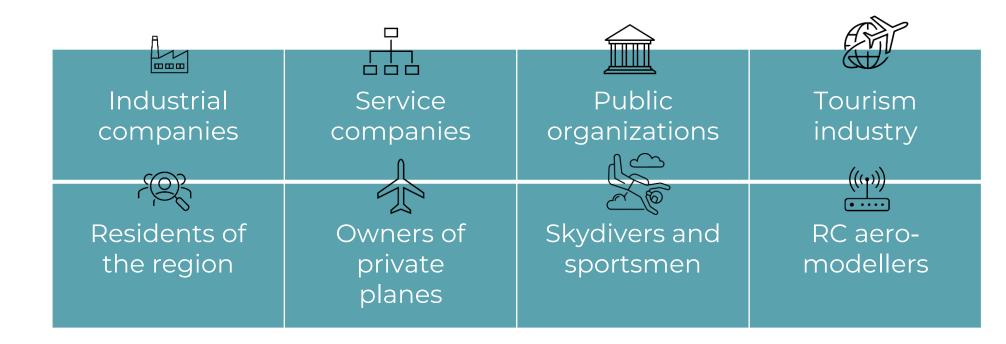




Source: Neo Performance materials



POTENTIAL AERODROME STAKEHOLDERS





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INDUSTRY INSIGHTS – EXPORT INDUSTRY IS HIGHLIGHTED

Narva companies aim for international business and increasing export – better connectivity is needed.

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STRONG EXPORT INDUSTRY WITH A GROWTH MINDSET

- The interviewed companies highlight the focus on export which is nearly 100 % for all the companies.
- There are strong plans to increase export, for ex. 20-30 % per year for one the companies.

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NEED FOR TRAVEL IS RELATED TO EXPANDING MARKETS

Mentions of travel needs:

- Customer and auditor visits at factories
- Maintenance crew visits
- Business meetings
- Sales and marketing purposes

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- Engineering meetings
- Top manager negotiations

EUROPE IS THE MAIN MARKET FOR THE COMPANIES

Preferred destinations:

- Germany (Dusseldorf, Hamburg, Frankfurt and Munich)
- Finland (Helsinki)
- Sweden (Stockholm)
- Poland (Warsaw)
- Rumania (Bucharest)
- Israel (Tel Aviv)
- UK (London)
- Holland (Rotterdam):
- Norway, France, Spain, Switzerland generally

CURRENT USAGE OF HUB AIRPORTS

• Tallinn, Riga, Frankfurt, Helsinki, Warsaw, Oslo, and Stockholm

Interviewed companies:

Neo Performance Materials, Fortaco Group, Aquaphor International, MAST Europe, Viru Keemia Grupp (VKG), HANZA Mechanics Narva AS



INDUSTRY INSIGHTS – THOUGHTS ON THE FUTURE

VIEWS ON AIR CARGO POTENTIAL

Identified use cases:

- Component deliveries
- Urgent deliveries of expensive and lightweight components and spare parts

IMPORTANCE OF A FUNCTIONAL NEARBY AERODROME FOR BUSINESS

- New opportunities for investment and partnership would appear.
- Positive impact on business.

COMPANIES RECOGNIZE THE POTENTIAL OF DIRECT FLIGHTS FROM NARVA

- Price and time schedule should be optimized
- Morning and evening flights

neaero

• Direct flights to hub airports or directly to the destinations are seen promising

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IMPROVING AIR CONNECTIONS AND NEW BUSINESS INVESTMENTS

- New investments are seen possible
- Improved logistics is seen to always increase business



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IDA-VIRU TOURISM CLUSTER 2024-2027

Strong development plans are being implemented to attract new markets and customers

- Cluster's long-term goal: 1 million overnight stays
- Program prepared to attract
 Finnish and Latvian tourists to
 Ida-Viru.
- Number of overnight stays by Finnish tourists in Ida-Viru is planned to increase up to 34 000 in 2027, compared to 11 058 in 2019 (3 times).

by nationality 300 000 250 000 200 000 150 000 100 000 50 000 0 2020 2022 2019 2020 2022 2019 2019 2020 2020 2022 2022 2019 2020 2021 2022 ດ 2021 2021 2021 2021 2019 All countries Latvia Russia Estonia Finland Source:

The number of people accommodated in Ida-Viru

Source: Statistikaamet





Statistikaamet

EXAMPLES OF FUTURE AIRCRAFT

Next gen aircraft are coming – it is up to the stakeholders to start using them to boost the region's economy



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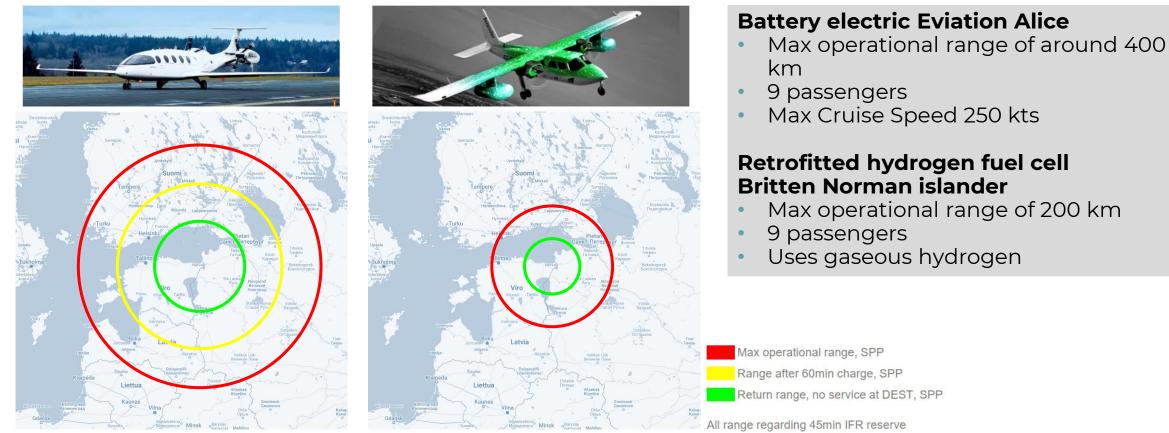




AN EXAMPLE OF OPERATIONAL RANGES OF AIRCRAFT

Operational ranges of next gen aircraft are ideal for regional aviation

Aircraft operational range from Narva-Olgina Aerodrome



Modified from source: Evia Aero







FEASIBILITY OF PASSENGER AIR TRAFFIC

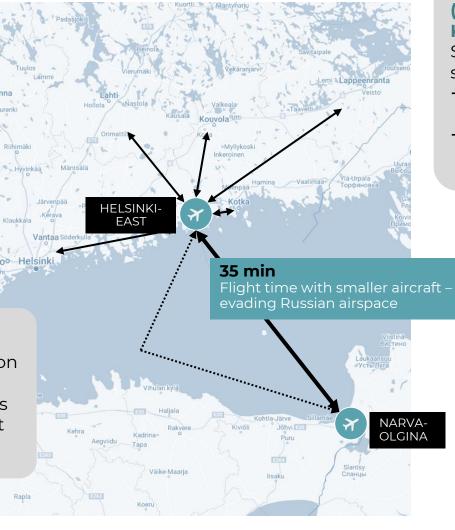
Between Narva-Olgina & Helsinki-East Aerodrome – passenger potential

Kymenlaakso business potential

- Strong industry: forest, chemical, construction and technology industry companies
- Future: € 3,7 billion investments in battery technologies and many other investments for green tech such as biocarbon, hydrogen, solar etc
- → Potential for business relations especially regarding new green tech
- → Business relations meetings, sales, customer visits

Finnish capital region

- Close by Helsinki-East –fast connection via road
- All the largest company headquarters
- →Many business opportunities and fast accessibility via Helsinki-East



Lappeenranta University and XAMK (university of applied sciences in Kouvola and Kotka)

Strong expertise in energy technology studies and business

- → Potential for Estonia in the larger energy transition scheme
- → Benchmark visits, research cooperation and also business potential

Ida-Viru

- Strong chemical and metal industry
- Potential markets and business relations with Finnish stakeholders
- →Customer visits, cooperation during sales processes







AERODROME VISION IN PHASES





AERODROME VISION IN PHASES

	FOLLOWER 1-5 years	INNOVATOR 5-10 years
	PHASE 1 24/7 aerodrome for unscheduled aviation	PHASE 2 Regional zero carbon aerodrome
Aerodrome facilities	 Paved 1 200 m runway Maintenance hangar Storage hangars for general and private aircraft A small café and a briefing room 	 + Remote control infrastructure + Passenger terminal + Charging for aircraft and road vehicles + 100 % sustainable aviation fuel tanks and fuelling system
Aviation services	 On-demand business flights serving local export companies Recreational aviation 	 + Electric/hydrogen aviation test routes to Tallinn and Helsinki-East + Extended on-demand flights with digital MaaS-service incl. last mile services
P Business park	 Solar energy park and energy storage Service and maintenance companies Technical infrastructure (electricity, natural gas, internet communication, water and sewerage) 23 separate land plots with an area from 1607 m2 up to 5002 m2 	 + Sustainable aviation fuel production in regions Industry parks – distribution at the aerodrome + E-commerce logistics with air cargo + Office and meeting space





AERODROME VISION IN PHASES

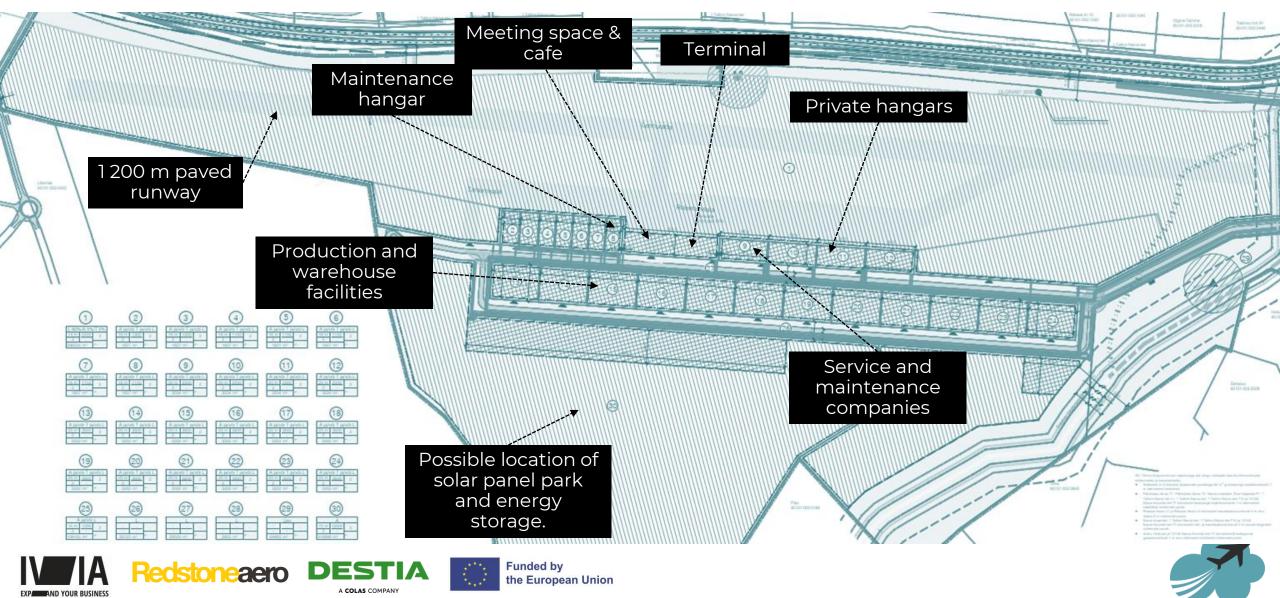
	FOLLOWER 1-5 years	INNOVATOR 5-10 years	FORERUNNER > 10 years
	PHASE 1 24/7 aerodrome for unscheduled aviation	PHASE 2 Regional zero carbon aerodrome	PHASE 3 State of the art future aerodrome
Aerodrome facilities	 Paved 1 200 m runway Maintenance hangar Storage hangars for general and private aircraft A small café and a briefing room 	 + Remote control infrastructure + Passenger terminal + Charging for aircraft and road vehicles + 100 % sustainable aviation fuel tanks and fuelling system 	 + Automated maintenance + Verti- and droneports + Advanced digital processes in passenger and cargo flow management
Aviation services	 On-demand business flights serving local export companies Recreational aviation 	 + Electric/hydrogen aviation test routes to Tallinn and Helsinki-East + Extended on-demand flights with digital MaaS-service incl. last mile services 	 + Wide network of regional flights with zero emission aircraft + Digital on-demand service of aviation services + Drone logistics network
Business park	 Solar energy park and energy storage Service and maintenance companies Technical infrastructure (electricity, natural gas, internet communication, water and sewerage) 23 separate land plots with an area from 1607 m2 up to 5002 m2 	 + Sustainable aviation fuel production in regions Industry parks – distribution at the aerodrome + E-commerce logistics with air cargo + Office and meeting space 	 + High value component manufacturing + Automation companies + Wide road and air cargo facilities + Small electric plane manufacturing/assembling; + UAV, eVTOL and Drones assembling and testing





NARVA-OLGINA BUSINESS PARK AND AERODROME IN PHASE ONE

In five years, the aerodrome will be up and running and will have necessary facilities to serve unscheduled air traffic

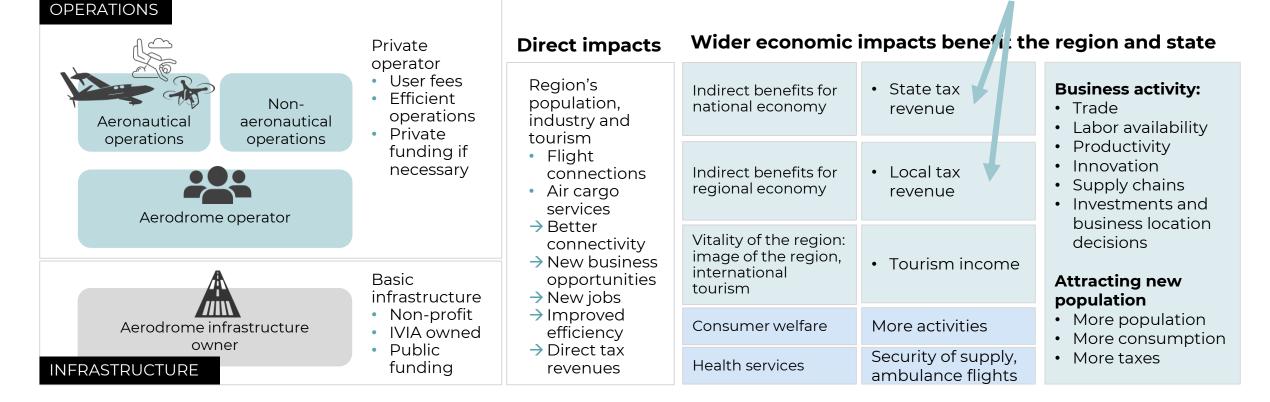


IMPACTS OF THE AERODROME

Example of wider economic impacts

- New business relations and better connectivity enabled by the aerodrome and aviation services can lead to a new industrial investments.
- If the new investments employ 500 persons in total:

Regional economy effect: Additional **€ 1 million** tax revenue annually National economy effect: Additional **€ 4,8 million** tax revenue annually









\frown	MULTIPLE
(+)	STAKEHOLDERS
\bigcirc	BENEFIT



	Flight operators	 Enabling profitable flight operations Keeping aircraft utilization rate high
RS	lda-Virumaa county	 Improved attractiveness of the county Improved regional economy
	Municipalities	 Improved attractiveness of the nearby municipalities Potential for more working age population to improve municipal economy Public emergency and ambulance flights
	IVIA	 Easier to maintain and create new business relations Improved chances to find new companies for industry park plots
	The government of Estonia	 Improved national accessibility Boosting GDP and innovations Image as a forerunner country in new era aviation
Funded by the European Union	Research and education	 New possibilities for science studies Education possibilities regarding new aviation technology and operations

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Industry

Tourism

Population

Better connectivity to form business relations

Better accessibility of tourism destinations

New possibilities for recreational activities

Possibilities for travelling close from home

Possibility for recreational aviation

Faster business trips – the region is more attractive

Developing sustainable tourism concurrently with

Improved logistics supply

for investments

sustainable aviation





Dundaga



