



HELSINKI AIRPORT
FINAVIA – for smooth travelling

CLIENT

Finavia

LOCATION

Helsinki

INDUSTRY

Airport

APPLICATION

Hub & Spoke Operations

CASE STUDY

Xovis – A Crucial Gear Wheel in Finavia’s Daily Operation

HOW TECHNOLOGY SUPPORTS A POPULAR TRANSFER POINT BETWEEN ASIA, EUROPE AND NORTH AMERICA

Helsinki-Vantaa International Airport (HEL), also known as Helsinki Airport, is an impressive bridge between cultures. It sees millions of long-haul flight passengers travel through its terminal every year, and these travelers enjoy one of the shortest transfer times in Europe. Xovis technology is a crucial component that helps make each transfer as smooth as possible.

ABOUT HELSINKI AIRPORT

Helsinki Airport served around 22 million passengers in 2019. With the Helsinki Airport Development Programme, which was launched in 2014, Finavia aims to increase the annual capacity of Finland’s largest airport to 30 million passengers.

CHALLENGE

Due to its geographical location, Helsinki Airport evolved to one of Europe’s largest gateways to Asia and vice versa. In 2019, around 20% of all passengers were transiting through Helsinki Airport – a share with tendency to rise. With a minimum connecting time of as little as 40 minutes, HEL is among the airports with the shortest transfer times in Europe. Besides walking from the arrival gate to the departure date, passengers might have to clear immigration and/or go through Security Screening. Frequent air travelers usually relate both these processes with queues and wait times. Enabling passengers to master both touchpoints within 40 minutes imposes a significant logistical challenge for airport operator Finavia.



CASE STUDY

SOLUTION

To address this challenge, Finavia wanted to gather as much data as possible. For this, Finavia has numerous data sources, one of these being the boarding pass scanners that are installed at various touchpoints. Thanks to these scanners, a large amount of data can be gathered: for each passenger, Finavia knows when a passenger who is travelling on a specific flight has been last seen. The sum of all these data sets enables Finavia to determine a flight profile for every single departing flight. Lastly, the passenger details of each flight (passenger numbers and trip details of each passenger) completes the data set. All this information provides a meaningful tool to forecast Helsinki's passenger volumes throughout the day and organize Finavia's daily operation accordingly.

However, one important piece of information is missing: data on the actual situation at the Helsinki Airport's touchpoints. And here is where Xovis PTS

comes into action. Thanks to the passenger flow management system from Xovis, the Operations Controllers at Helsinki Airport can continuously monitor how the passenger volume evolves at each of the relevant touch points. And take ad-hoc decisions to better utilize their resources, be it infrastructure or staff. For example, staff can be moved in-between different touch points for quicker process of passengers where needed. Having shared offices with the Operations Controllers of Helsinki's hub carrier Finnair, relevant intel can easily be shared with the airline counterparts, to facilitate decision-making regarding the awaiting of delayed transit passengers.

Are you interested in Xovis technology and our solutions? We are here for you.

Please contact us: airport@xovis.com

BENEFITS

Results for the combined data sets has been better collaboration with Airlines and other stakeholders at the airport. Better understanding of the ongoing situation has developed Helsinki Airport as a whole. Helsinki Airport can now use the resources it has better, and this way improve the overall satisfaction with the passenger as well with the employees.

The Xovis passenger flow management system has been shared with the stakeholders, which gives them a better view of the situation at hand. They can utilize their resources on their own and doesn't have to rely on phone calls or their experiences and it gives mutual trust as everybody has the same view.



"Xovis passenger flow management system offers a maintainable solution in the ever-changing airport environment. The provided tools also deliver visibility on your daily operations with metrics and visualization for everyday users, to interpret the situation in past, present and for immediate future without difficulty. Next to that, Xovis offers modern data extraction APIs for further process automation and intelligent operations. Xovis always delivers what is promised and is a very flexible supplier."

Matti Lehto
Head of Process Development, Helsinki Airport Finavia

www.finavia.fi

How does it work?

Your passengers want to get to their gate quickly and safely. Your business partners need a solid foundation on which to plan their services. Our airport passenger flow solutions make sure both passengers and partners get what they need. Where physical distancing is concerned, Xovis 3D sensors also become an elementary component in protecting the health of people on the move. Our dedicated team provides a powerful toolset for streamlining people flow in shared spaces, optimizing staff and infrastructure planning for businesses and ultimately increasing customer satisfaction and operational efficiency.

THE XOVIS PORTFOLIO

The Xovis PC series is the most complete portfolio of **3D sensors** on the market. We master people counting and people flow measurement challenges with Swiss precision, indoors and outdoors. Xovis 3D sensors have a wide angle of view that accommodates the architecture of any building. Mounted on the ceiling, one sensor covers up to 100 m² or 1100 sq. ft and works from 2.2 m/7.5 ft all the way up to 20 m/98 ft high. The unique multisensor technology allows the user to seamlessly cover large areas. All sensors run on Power over Ethernet (PoE), aka combining data and power in one cable, plus they have a mean time between failures (MTBF) of 25 years.

The **Xovis software** is a powerful tool for your stakeholders. Customized dashboards provide them with information, insights and KPIs that are relevant for their daily business and decision-making. Xovis data can easily be integrated into an existing software environment and third-party applications, such as Airport Community Applications or public mobile applications, via state-of-the-art APIs.

UNMATCHED ACCURACY

Our cutting-edge firmware provides high-resolution 3D images with unrivalled precision, guaranteeing maximum insight. Individuals can be tracked through large areas without collecting personal data, ensuring people are recognized as distinct from one another even in densely populated areas.

Xovis 3D technology does not depend on signal-emitting devices and handles external influences such as fluctuating light and heat conditions without wavering from its task. A minimum light source of just 2 lux is required. The embedded data processing occurs in real time, providing actionable and swift information.

DATA PRIVACY & SECURITY

Data privacy with Xovis is a certainty. Image processing is performed on the sensor, so no images leave the sensor and data privacy is guaranteed. Only a data push of coordinates, representing a person, is sent out. The sensor provides a range of tools for data protection and secure network settings.

ABOUT XOVIS

Xovis is an international market leader for intelligent people flow solutions across airports, retail, transportation, and smart buildings. Xovis has been at the forefront of high-precision technology for more than a decade and is helping airports improve passenger flow and rethink their business for better performance. With more than 150,000 Xovis sensors in the field, the Swiss-based company is the market leader in people flow management in the airport and retail industries. Today, nearly a hundred airports around the world count on the combination of Xovis sensors and software solutions to move travelers more smoothly through their facilities, optimize their resource planning and increase traveler satisfaction as well as revenues.

Founded in 2008, Xovis has evolved from a three-person start-up to a dynamic company with over 130 employees. Xovis is headquartered at the gates of Switzerland's capital and has branches in both USA and China.

For more information about Xovis Airport:

www.xovis.com



XOVIS
Rethinking People Flow