

# Unique traffic data collaboration drives innovation

Saudi Arabia Delegation Visit

May 13, 2024

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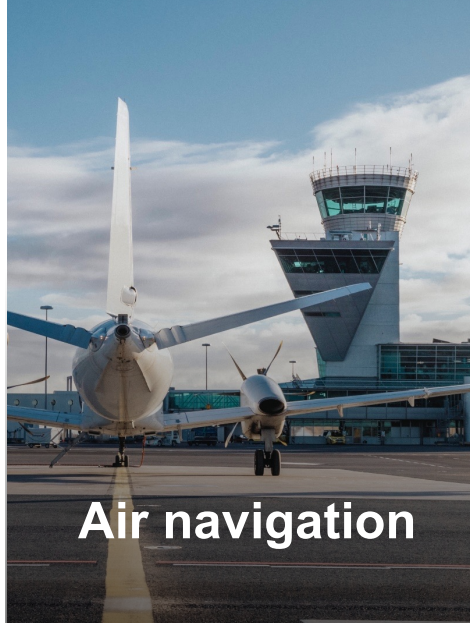
Fintraffic

# Fintraffic manages and controls traffic and traffic related data in all modes of traffic



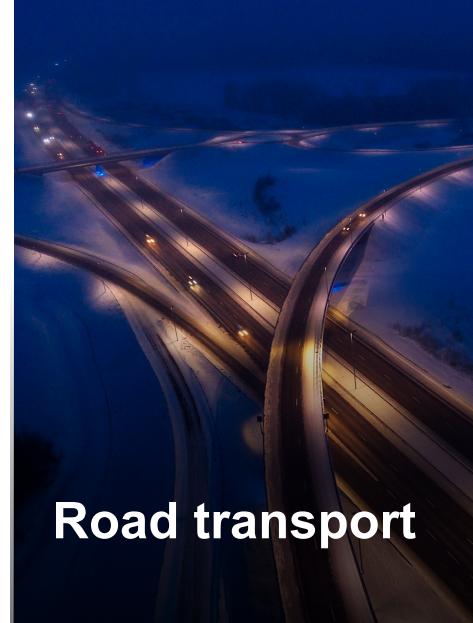
**Railway traffic**

- More than 500,000 trains each year
- More than 82 million passengers
- Rail network 6500 km



**Air navigation**

- Air navigation services at 22 airports
- 206 000 operations in regional air traffic control every year.
- 137,000 at Helsinki Airport



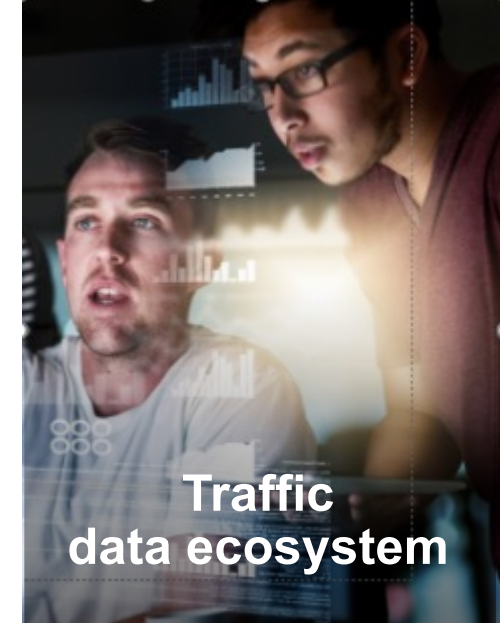
**Road transport**

- Roads carry 90% of passenger transport in Finland
- More than 120 million km driven in vehicles every day
- Road network 78,000 km



**Maritime traffic**

- 94% of exports, 91% of imports by sea
- Nearly 30,000 international traffic vessel visits annually



**Traffic data ecosystem**

Traffic Data driven co-operation with 200 organizations

Our traffic services for all traffic users, traffic professionals and application developers are available on the [fintraffic.fi](https://fintraffic.fi) website. The data will be utilised in services provided by Google Maps, Waze, Apple, HERE and HSL



# Fintraffic's data can answer to multiple questions

## RAIL TRAFFIC

- Is my train on schedule?
- Where is my train right now?
- Which train can take me from A to B at time C?
- Which trains are the next to arrive and depart on station X?
- Which types of cars is my train composed of?
- What services do these cars provide?
- Was my train on schedule two months ago?

## ROAD TRAFFIC

- What are the road weather conditions like right now? How about 3 hours from now?
- When was the road last plowed?
- Where are the road maintenance vehicles right now and what are they doing?
- Are there any incidents or road works affecting my planned route?
- Is traffic flowing normally?
- How is the traffic flowing now in comparison to yesterday / last month / last year?

## MARITIME TRAFFIC

- What vessels are in harbour X at this time?
- Which vessels are arriving / departing next and when?
- Where is the vessel right now?
- What kind of vessel is that?
- Are there any active warnings for marine traffic?
- Are there any disturbances in marine traffic?
- Are the aids of navigation working properly?

# Digitalization of Traffic is an effective tool

## in building sustainability and productivity



70%



Growth forecast for Global traffic market by 2030\*

13%



of companies' and households' money is spent on logistic and traffic costs

20%



of emission are caused by traffic. We need to cut the emissions to half by 2030

**Digitalization offers a unique possibility to:**

**•For participants:**

- cost reduction due to analysis, optimization, automatization, joint development

- open innovation and learning
- create growth to the industry, to support Finland's competitiveness

**•For society:**

- create better and equal traffic and logistic services for customers
- build a more effective traffic system, cut down traffic related costs and cut down emissions

# TRAFFIC DATA ECOSYSTEM-

## Unique traffic data collaboration drives innovation

Unique **public-private sector collaboration**, involving also **authorities**

We have invited **more than 200 leading mobility organizations** (including operators, authorities, academia, service providers, cities, ports etc.) to create

**Efficiencies for operations**

**Innovative data-share and data-use solutions** and a **fair digital operating environment** within an open data ecosystem.

**Competitive and scalable traffic and mobility services** for both Finnish and international markets

**Key domains:** Logistics, mobility data, traffic information (situational awareness)

**Cost-efficient and scalable platforms and solutions** that will enable safe, low-emission and user-oriented travel and transport chains that combine different modes of transport.



### TRAFFIC DATA SERVICE CLUSTER

*"The Selected Spire"*



### TRAFFIC DATA ECOSYSTEM

**+200 Members**





# Examples of our ecosystem achievements to-date

- **Established and working governance model** for traffic data ecosystem
- **Shared vision** for traffic data economy - [Traffic Data Rulebook](#)
- Traffic data **current state and target state architectures**
- **Solution concepts** for
  - Public Transport
  - Situational Awareness Data
  - Logistics
- Port Activity Solution for Ports
- Open Data in the Nordics (ODIN) – vision for roaming with MyData Data Wallet
- **Definition of data standards** to be used
- Number of implementations and pilots





# EXAMPLE USE CASE

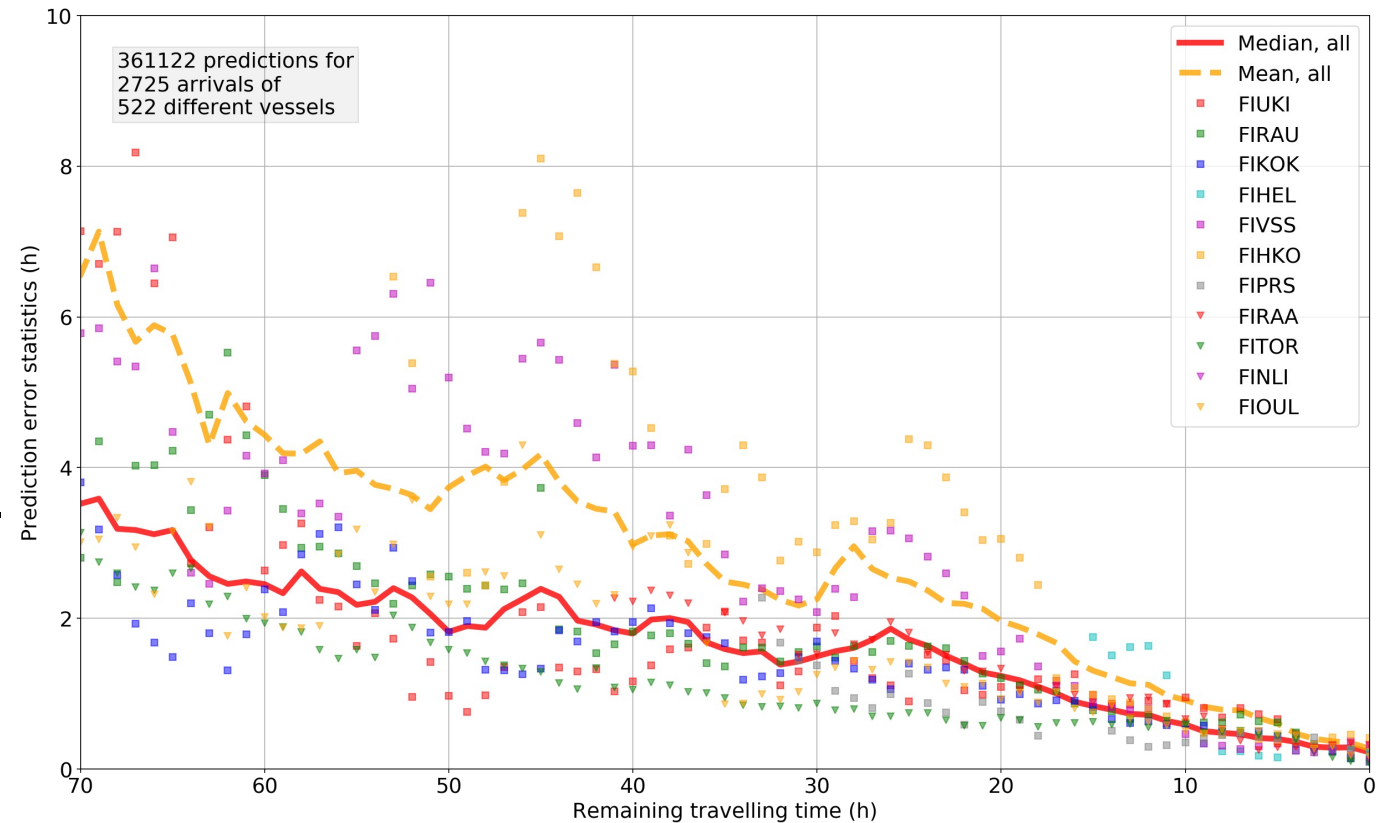


## *Port Activity – Streamlining Port Activities*

A toolset for ports to improve the overall efficiency of port flow, covering the end-to-end chain of actions and operations related to vessel visit.

# Vessel arrival estimation service provides realtime estimates for all stakeholders

- Vessel ETA estimation services provides Estimated Time of Arrival (ETA) to vessels arriving to Finnish ports (ETB).
- Estimates are refined every 5-30 minutes (depending on AIS data availability) and made more accurate.







# Need more information?



- Please do not hesitate to contact us:

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