

Datatalous liikenteessä ja logistiikassa

“Liikennedata arvonluoja Suomessa ja viennissä”

Datatalouden kasvuohjelma, Datatalous liikenteessä ja logistiikassa –webinaari 25.11.2025

Kimmo Ylisiurunen

Traffic Data Service Cluster

Fintraffic, FINLAND



Funded by the European Union –
NextGenerationEU

FINTRAFFIC – A unique setting for all modes - purely driven by data



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

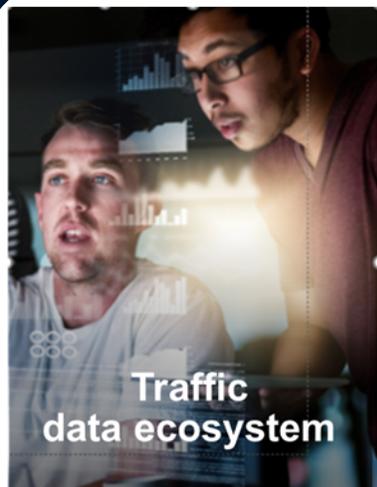
- 94% of exports, 91% of imports by sea
- Nearly 30,000 international traffic vessel visits annually

Real-time situational awareness

Realtime traffic, condition, schedules data - Road, railway, air and maritime data with open APIs – Data platforms, route planners and data analysis – Mobile solutions

DATA-DRIVEN ECOSYSTEM

– Innovations leads Fintraffic & partners to proven solutions



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 website. The data will be utilised in services provided by Google Maps, Waze, Apple, HERE and HSL

FINTRAFFIC – A unique setting for

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TRAFFIC DATA ECOSYSTEM

+200 members

Cooperation

- Common targets
- Coordinating cooperation
- International partners
- Co-creation
- Investment

Digital rules

- Standardized collection of templates and standard contracts
- Standards for collaboration and data transfer

Infrastructure

- Technical data platform
- Data harmonization
- NAPs, EMDS, Directives...
- Basic digital business services



Traffic Data Service Cluster

- Selected Forerunner Solutions from Finnish Traffic Data Ecosystem



Partnering with world class companies

Led by



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FINTRAFFIC – A unique setting for all

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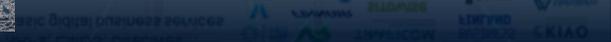
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SOLUTION PORTFOLIO

- clustering companies' expertise & solutions



- Harmonized NAP services
- Data Analysis
- Situational & Condition Awareness
- Critical Infrastructure Management
- Traffic & Maintenance Optimization
- Digitraffic Road Data Platform



- Passenger Information
- Mobility as a Service
- Parking & Ticketing Systems
- Automated Driving
- MMTIS NAP
- Digitransit Route Engine



- Maritime Single Window
- Port Activity Service
- Port Marketplace
- Master's Guide



- ERTMS
- Autonomous Rail
- Data Analytics
- Living Labs



- Electronic Freight Transport Information (eFTI)
- Multimodal & Combined Transport
- Living Labs



- Air navigation & condition systems
- Digitized terminal management (AOP - Airport Operational Plan)
- Airport as a multimodal hub

Liikenteen datapalveluiden vientiklusteri

- ekosysteemistä uutta liiketoimintaa ja kasvu viennistä -



Vientiklusteri – konkreettista vientiä yhteistyössä

- ✓ Suomalaiset liikenteen datapalveluiden viejät - Fintraffic koordinoi ja avaa ovia
- ✓ Markkinan vahvana draiverina alan voimakas **regulaatio** → Suomi monessa edelläkävijä
- ✓ Fintrafficin alustat ja IPR:n lisensointi - ”laiskan IPR:n” aktivoiminen
- ✓ Viennin systemaattinen ja konkreettinen askellus – ovien avaamisen ”pipeline”
 1. Realistiset markkinavalinnat – tarjooma vs. markkinatarpeet
 2. Alan substanssiosaamisen, tarjooman ja vientiverkostojen synergia
 3. Tarkkaan kohdistetut tapaamiset, liidien generointi ja seuranta.

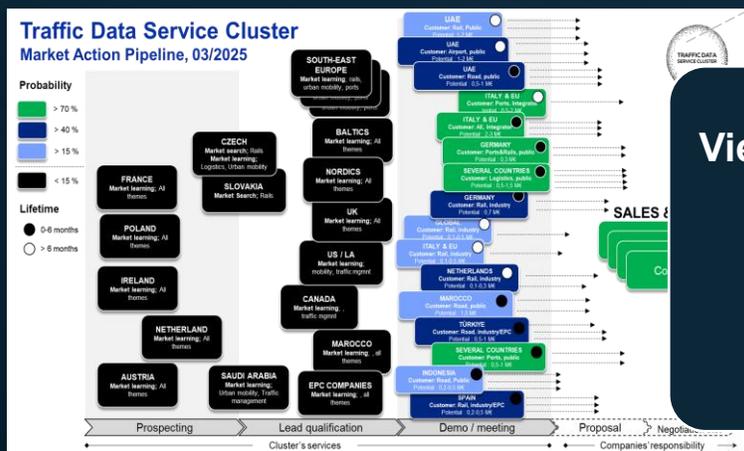
Hghways, cities & PT
- Eu regulation & directives (ITS, C-ITS, NAPs, EMDS..)

Airports
- European regulation 2027 (APT, ACS, SWM)

Logistics
- eFTI - European regulation 2027 (eFTI Gate, Nordics & Baltics Collaboration)

Railways
- EU regulation 2026 – (ERTMS)

Maritime & Ports
- IMO regulation 2026 – EU → Global... (EMSW)



Vientiklusteri tuottaa uutta liiketoimintapotentialiaa

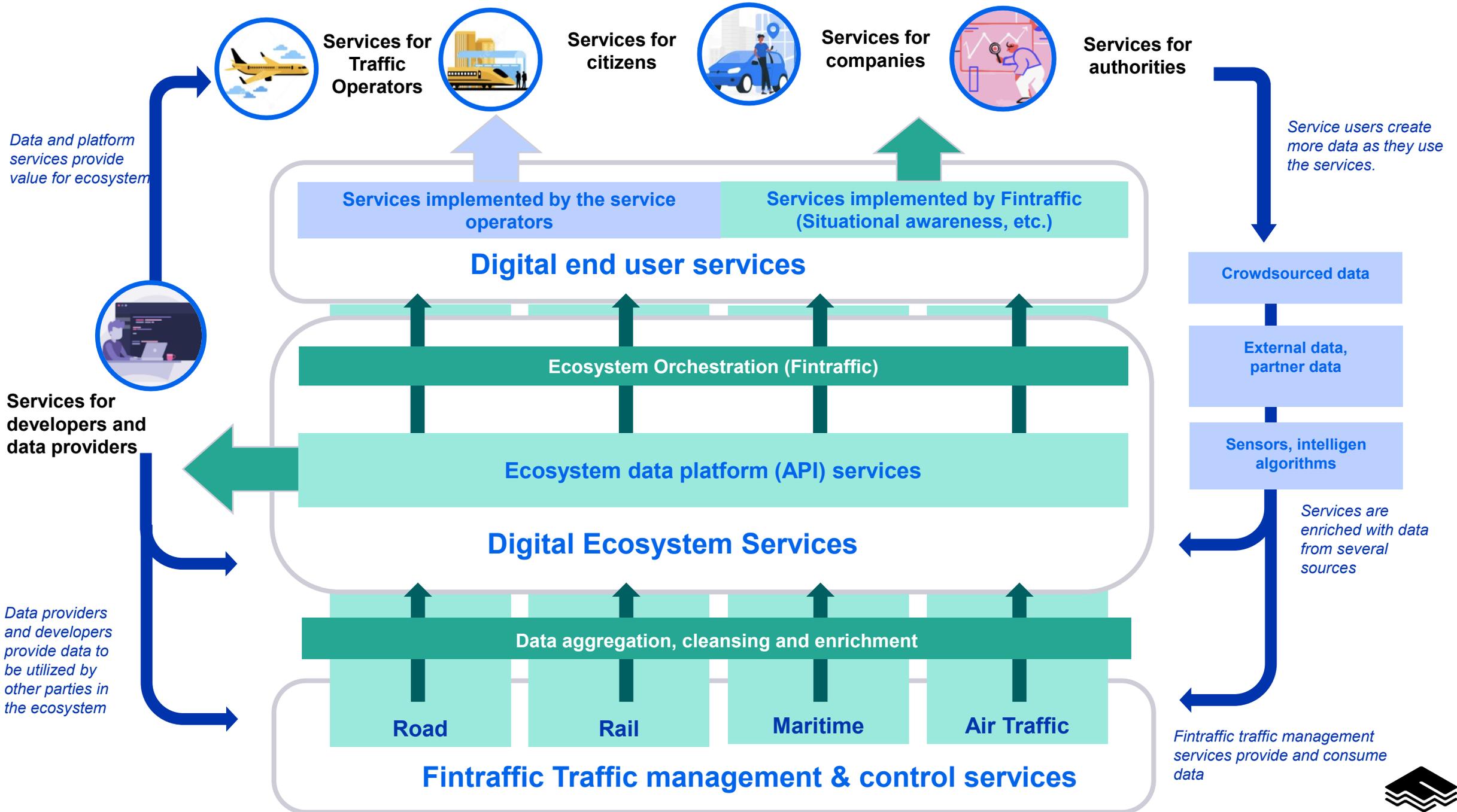
Arvio ensimmäisestä vuodesta:

- Liidien määrä: n. 50 kpl
- Liidien arvo: n. 20 MEUR
- Tarjouksia: n. 4-5 MEUR



**Muutama esimerkki arvonluonnista
liikenteen ja logistiikan haasteisiin**



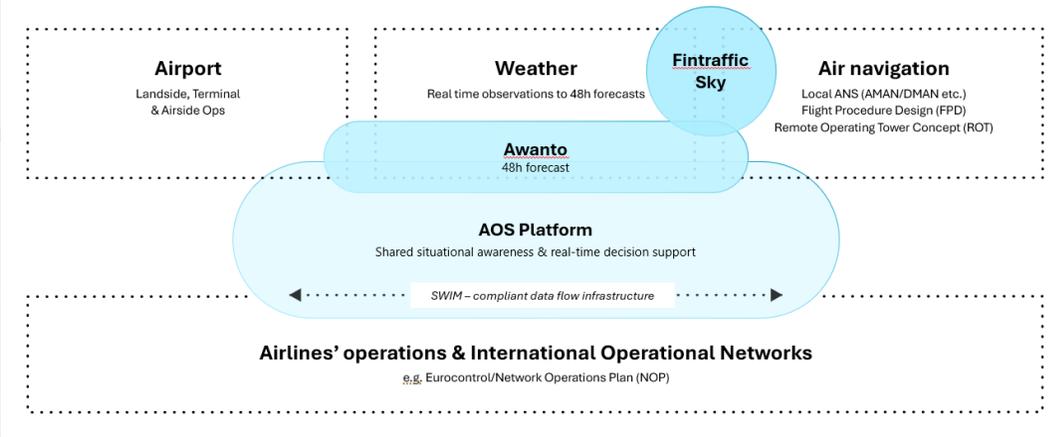




Finnish data-driven innovation leading the way Futureproof Airport

Airport Digital Awareness System

Finnish data-driven solutions approving the airport's AOP to be compliant for EU CP1



FINAVIA
SILI.

AOS – Airport Operational Status
Shared situational awareness & real-time decision support

[Watch video](#)

AWANTO
AK6066

SWIM compliant weather solution from real-time observations to 48h forecast

VAISALA

[Watch video](#)

Pre-Flight Information Bulletin
Fintraffic Sky

The primary place to submit flight plans and drone plans

BRIEFING TYPE: AERODROME AND AREA FOR BRIEFING
AERODROME AND AREA BRIEFING
ROUTE BRIEFING
AERODROMES
VALIDITY PERIOD: FROM (UTC) 20-MAY-2025 08:34
INCLUSION: INTERNATIONAL, FINLAND, ESTONIA, LITHUANIA
SCOPE: **Fintraffic**

[Watch video](#)

Fintraffic VTS

KEY ACTIVITIES

- Digitalization of maritime logistics and ports
- Maritime single window
- Port and coastal VTS operations
- eNavigation services
- Digital services for ships at sea

POLO for Ports & Logistics

Digitalizes, Optimizes and Automates Port Operations

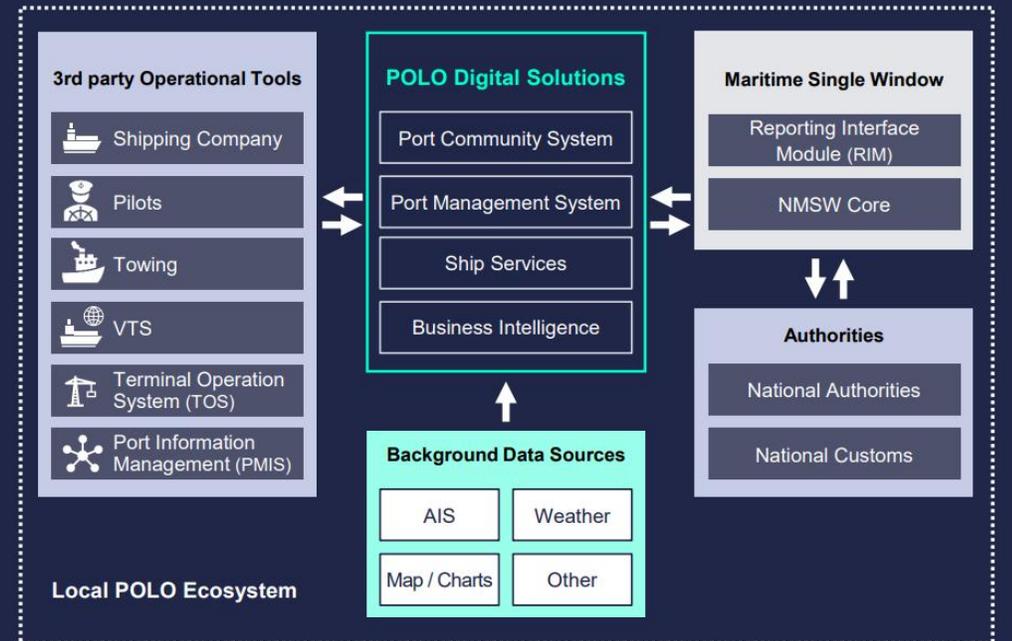


PORT COMMUNITY SYST
Integration platform & situational a

POLO Digital Solutions for Ports and Logistics

POLO – Unique Ecosystem Approach

Polo optimizes and streamlines port, maritime and logistic operations – locally and internationally

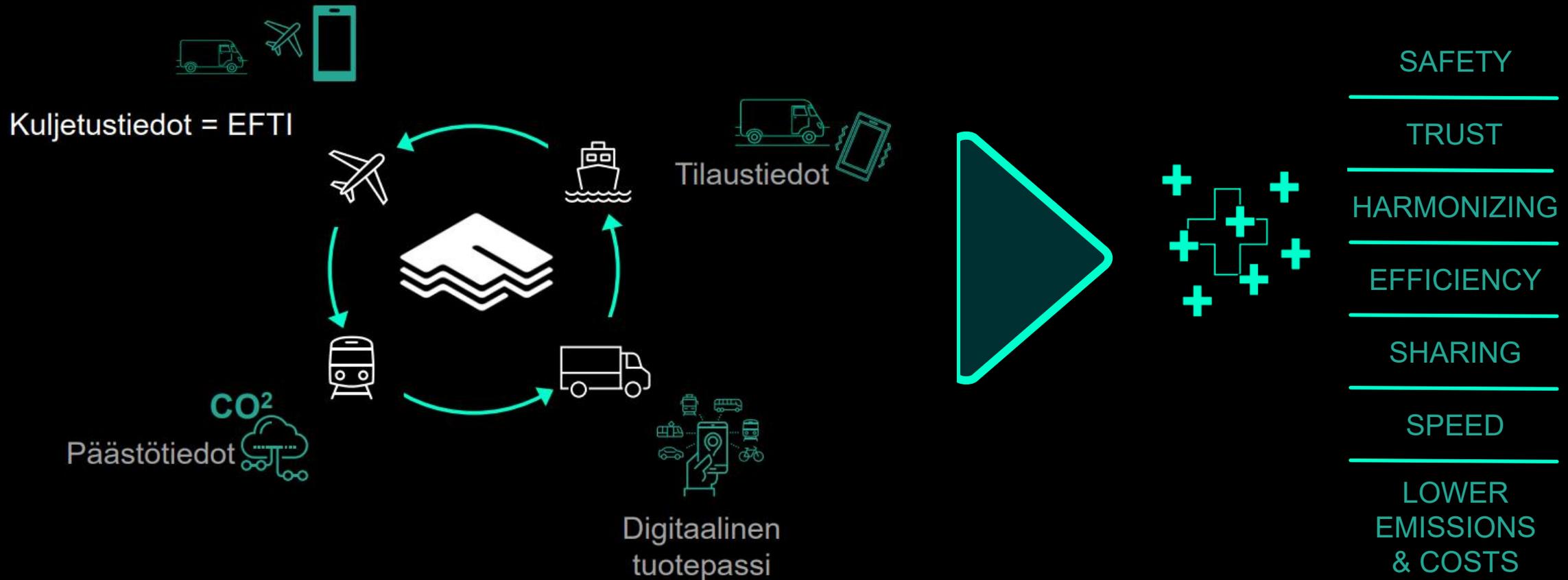


POLO Digital Solutions for Ports and Logistics

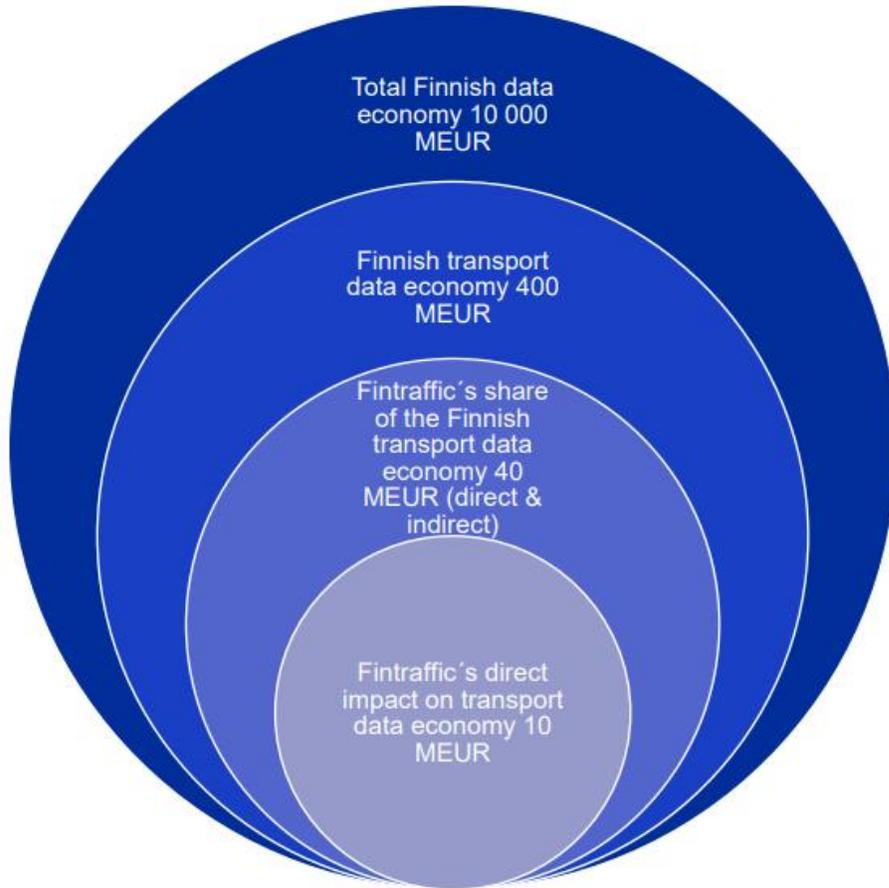


Electronic freight transport information (eFTI)

“Linked data generates more value than separate solutions, where eFTI is one piece of the digital logistic puzzle”



Value of Data



Source: Impact Potential of the Traffic Data Ecosystem - Report [\[link\]](#)

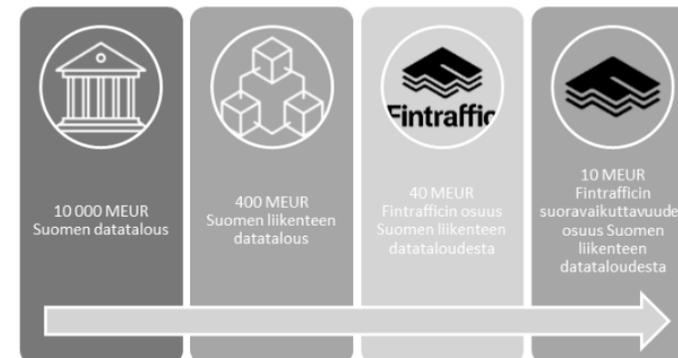


The data economy creates a value of hundreds of millions of euros in the transport data economy in Finland

The traffic data economy in Finland generates a value amounting to hundreds of millions of euros. This value creation occurs within a complex and diverse ecosystem, where the interactions among various stakeholders lead to significant outcomes. Understanding and verifying these outcomes are crucial for advancing the transport data economy and establishing the coordinated data ecosystem under Fintraffic's leadership.

During the spring and summer, Fintraffic conducted a study to assess the impact of the transport data ecosystem in collaboration with FLOU (<https://www.flou.io>). This research aimed to uncover strategies for enhancing and quantifying the level of digitization within the transport ecosystem.

The research primarily delved into the aspects of data and infrastructure, encompassing technical foundations, data model standards, APIs, and more. Additionally, it explored cooperative elements within the transport data ecosystem. Calculations from the previous year reveal that the value of the transport data economy surpassed 400 million euros, with Fintraffic's share amounting to approximately 40 million euros (as depicted in the provided image).



Miten digitalisaation hyödyt syntyvät yrityksille?



eKuitit
+223 milj. €/v



Kansantalouden
hyötypotentiaali
5,8 mrd. €/v
+ n mrd. €/v



Työ helpottuu, virheet vähenevät:
kustannussäästö organisaatioiden
taloushallinnolle jopa
- 50 %



Verkkolaskut
+440 milj. €/v



Lisää resursseja mm.
verovalvontaan ja -ohjaukseen
Verotuloja **+300 milj. €/v**



Transaktiokohtainen
alv-raportointi
Verotuloja kansallisesti
+160 milj. €/v



Digitaaliset
tilausasiakirjat
+2,7 mrd. €/v



Digitaaliset
logistiikan asiakirjat
+2 mrd. €/v



Yritystieto sujuvasti
tilastointia varten, säästö:
Yritykset **+145 htv/v**
Tilastokeskus **+1,4 milj. €/v**



Kiitos!



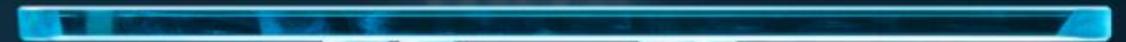
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[Traffic Data Service Cluster](#)
[Traffic Data Ecosystem](#)
[Fintraffic](#)



*Kiinnostunut viemään ratkaisusi
maailmalle?*

Ole yhteydessä!



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