



# X-road and other possibilities on cross-border collaboration on common IT solutions

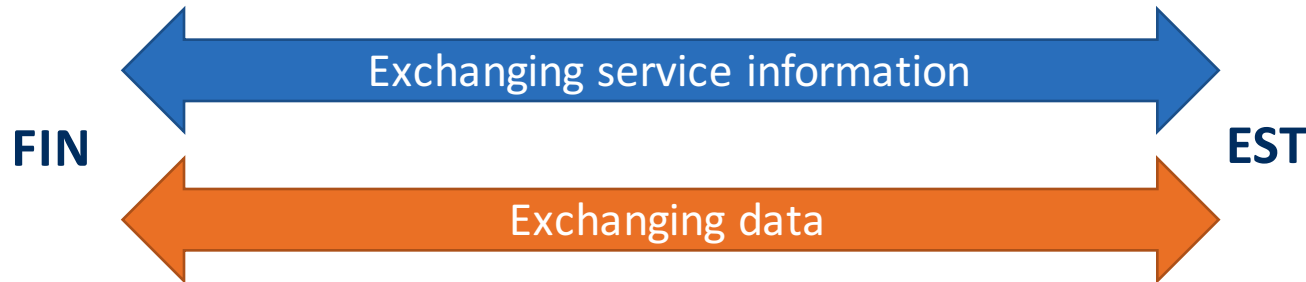
Jani Ruuskanen, Coordinating project manager, Population Register Centre, Finland  
*Ministerial E-Government Conference, 6.10.2017, Tallinn*

 @jani\_ruuskanen



# Cross-border G2G collaboration: Finland + Estonia

- Data exchange layer (x-road/x-tee)
- Service catalogue
- The other possibilities



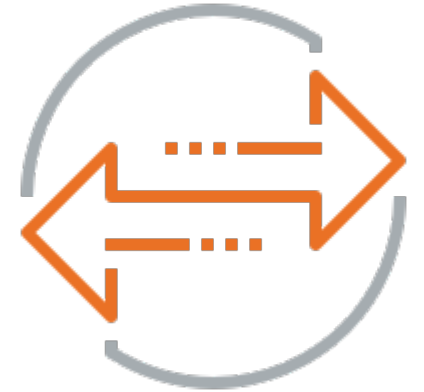


# Suomi.fi Data Exchange Layer

Unified digital services and secure data-exchange  
through X-road technology



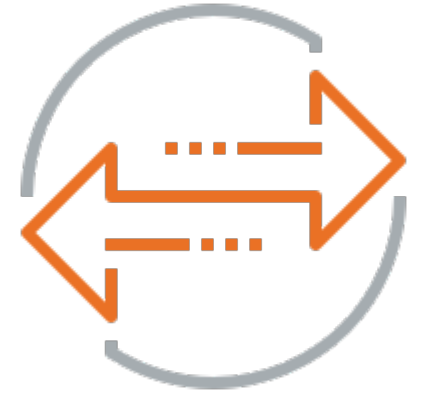
Suomi.fi Data Exchange Layer (X-road/X-tee)



A standardized way to  
exchange data between  
organizations and **countries**



Suomi.fi Data Exchange Layer (X-road/X-tee)



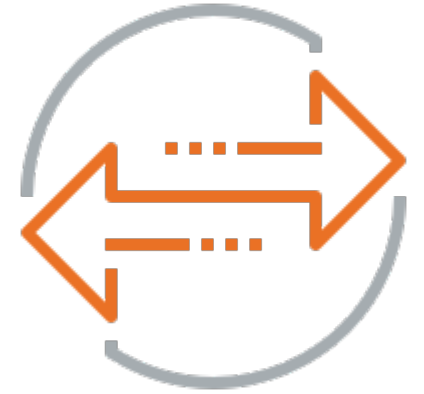
# Joint development

(X-road technology:  
Finland + Estonia)





Suomi.fi Data Exchange Layer (X-road/X-tee)



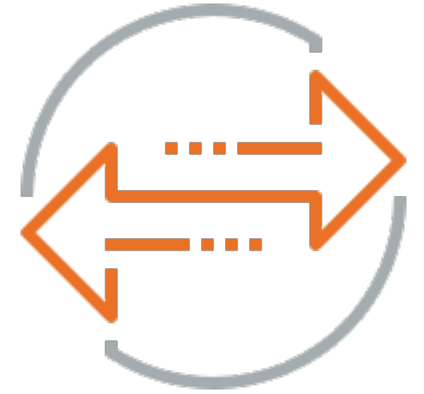
Organized by

The Nordic Institute for  
Interoperability  
Solutions  
(NIIS)





# Suomi.fi Data Exchange Layer (X-road/X-tee)



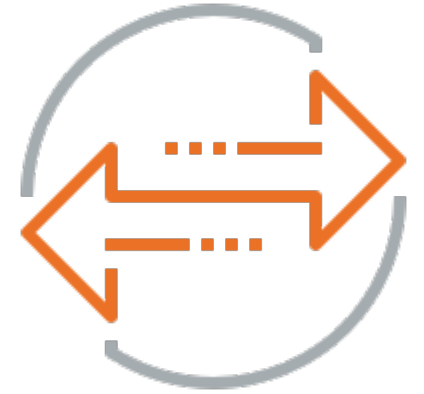
## NIIS funding

Finland + Estonia





Suomi.fi Data Exchange Layer (X-road/X-tee)



# Federation between countries

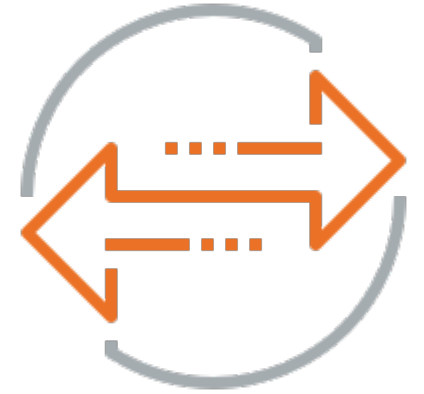
(dev, test, prod)







# Suomi.fi Data Exchange Layer (X-road/X-tee)



## First use cases:

- Change of address
- Birth
- Death
- Tax-information





# Suomi.fi Finnish Service Catalogue

All necessary service data in one place.



A new base register with  
standardized **metadata** of  
**all** public services

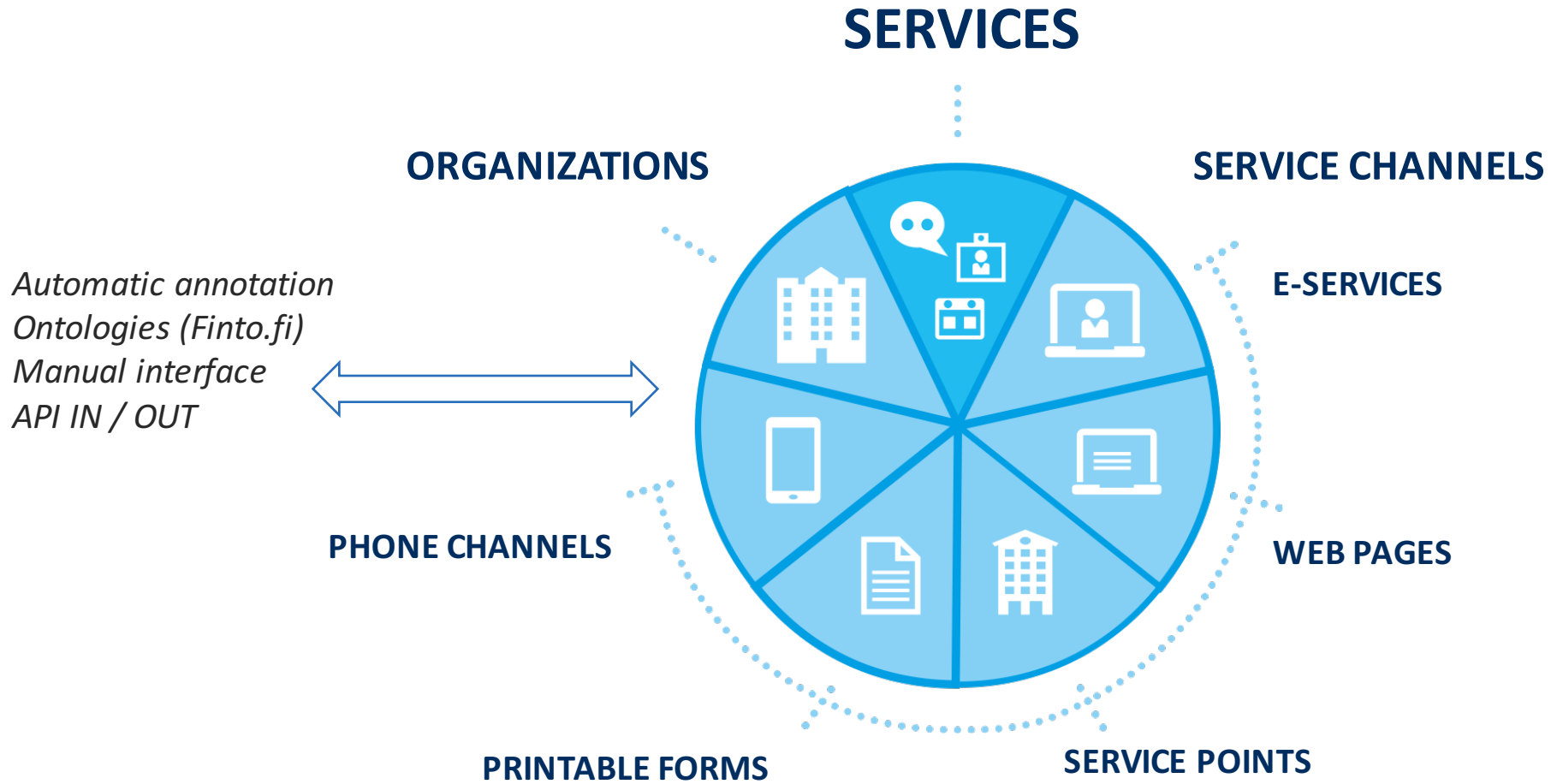


## Based on **CPSV-AP** by ISA<sup>2</sup>

(Common Public Service Vocabulary Application Profile)



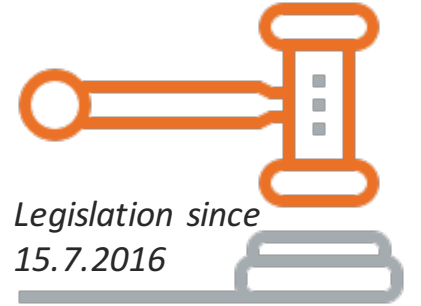
# Finnish Service Catalogue





## Open data (CC 0)

<https://api.palvelutietovaranto.suomi.fi/swagger/ui/index.html>



## **Mandatory** to use by all public sector organizations (*in Finland*)

(**311** municipalities + **150** government organizations,  
~**115 000** service and service channel descriptions)



Searchable by citizens  
through national portal(s?)

(<https://www.suomi.fi>)





Home

ons

Authorities

## Search ""

Filter search

ALL TARGET GROUPS (2129)

GANISATIONS (289)

AUTHORITIES (55)

### Housing

Matters related to housing are the responsibility of the Ministry of the Environment. The statistics on housing is compiled...

Topic

### Property management

The Ministry of Finance is responsible for the state's ownership and administration of real estate assets. The National Land...

Topic

### Private finance and funding

Finnish Tax Administration has a central role in the finances of private persons and companies. Banks are responsible for...

Topic

### Public order

The Public Order Act safeguards order and security in public places. The Public Order Act applies to places that are in public...

Topic

### Development of competence

The competence of the employees in public administration is developed based on their work tasks in all stages of their careers....

Topic

### Education

The Ministry of Education and Culture is responsible for the drafting of regulations on education. The Finnish National Agency...

Topic

### Quality management

Topic



SERVICE

## Business Advice

INFORMATION

SERVICE CHANNELS

**Responsible for the service:** City of Vaasa

**Area:**

**Service available in:** Finnish, Swedish

Owned by the region's towns and municipalities, the Vaasa Region Development Company VASEK promotes and reinforces growth and competitiveness in the region. VASEK coordinates regional business services in the Vaasa region. When you need help and support in starting a company, and during your first years in business, the experts at VASEK and the Vaasa Region Enterprise Agency Startia, which is a part of VASEK, are the people to ask.

The service gives you what you need to get started in business and to develop your operations in future years. VASEK's business advisors will help you with any questions relating to business without charge and in complete confidence. You can contact the company representative in charge of entrepreneurs in your own municipality, or one whose special know-how best suits your needs.

The Vaasa Employment and Economic Development Office organises start-up information events for new entrepreneurs and also allocates start-up grants for new businesses.

Other organisations serving companies include the Centre for Economic Development, Transport and the Environment; the Technology Centre Merinova; Vaasan Yrittäjät association of enterprises; Österbottens Företagarforening association of enterprises; the Ostrobothnia Chamber of Commerce and the Federation of Finnish Enterprises.

### Do the following

Please contact the Vaasa Region Development Company VASEK's business services.

Service channels

### RELATED TO TOPICS

[Marketing and sales](#)

[Productisation](#)

[International operations](#)

[Ideas and inventions](#)

[Commercialisation](#)

[Establishing a company](#)

[Corporate social and financial responsibility](#)

[Quality management](#)

[Innovation activities](#)

[Expanding the business operations](#)

### Contents related to the topic

> **Business advisory**

City of Helsinki

> **E-services for businesses**

City of Helsinki

> **Services for expanding business operations**

Vaasa Region Development Company



# National portal

Suomi.fi

Search in Suomi.fi

LOG IN

EN



Home

Citizens

Companies and organisations

Authorities

## Route search

[Go back to service locations](#)

**From My location**  
Seppä, Lappajärvi

**Where**  
The Real Estate Department

**When**  
Departure time  
14:30  
26/09/2017

**Mode of transport**  
Car, Bus, Walking, Bicycle

**Search**

**1** 160 m  
19.36 km 129.24 km  
790 m

Departure time 27/9/2017 6:19  
Duration of the route: 3 h 30 min

**Depart**  
6:19 Walk to the stop Seppä E 160 m (2 min)

**Seppä E**  
6:22 Bus (19.36 km) in the direction of Alajärvi  
ABC  
25 stops (18 min)



# The other possibilities

Suomi.fi e-ID, e-Authorizations, messages



# Suomi.fi -E-authorizations, e-ID and messages

- Suomi.fi – e-ID provides **Single Sign On** to all Finnish public services and also supports eIDAS federation between EU-countries.
- Suomi.fi -E-authorizations service enables users to **create or request digital authorizations** and e-services to check users authority from different registers.
- Suomi.fi - Messages provides **digital post** for all citizens (2018 also for entrepreneurs) in Finland.





All Suomi.fi-services are



# Open source

[\(https://github.com/vrk-kpa/\)](https://github.com/vrk-kpa/)





More information and support material:

<https://esuomi.fi/?lang=en>

Finnish national portal:

<https://www.suomi.fi>

Service catalogue on YouTube:

<https://www.youtube.com/watch?v=2o7VPBTXkxc>

Suomi.fi on YouTube:

<https://www.youtube.com/watch?v=VE0sD3GCSPA>

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Population Register Centre



MINISTRY OF FINANCE