TURKU
ÅBO

Open Data Service

Arvi Leino
City of Turku
27.11.2019

Overview

- City's central administration provides centralized support service for opening data and utilizing open data.
- The open data support service promotes open government principles, interoperability ja open cooperation.
- Activity is based on multiple strategies.

TURKU
ÅBO

http://www.turku.fi/en/organization

Turku City Strategy

(quotes from)

Transparent evaluation keeps us on the right track

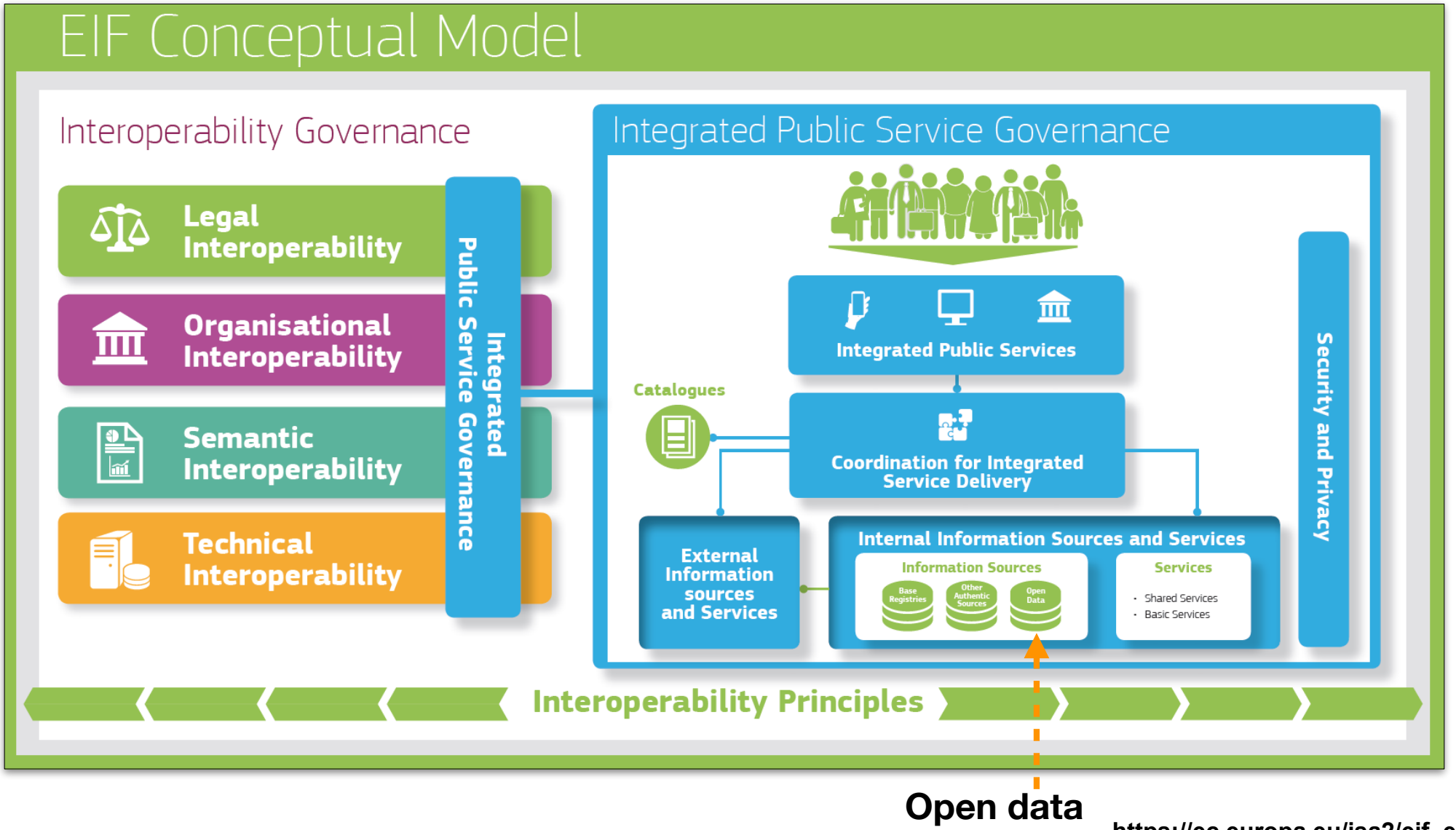
Decision making will be transparent and consistent. When it comes to increasing transparency, open data brings new opportunities, and Turku aims to be at the international forefront in the utilisation of these opportunities.

Turku creates well-being and activates

By developing our information management, we are also promoting transparency and new kinds of business as we make our databases available to citizens and companies. The city's aim is to be an international forerunner in the digital platform economy that is based on the utilisation of data.

http://www.turku.fi/en/citystrategy

Interoperability



https://ec.europa.eu/isa2/eif_en

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=COM:2017:134:FIN

Open Data Examples

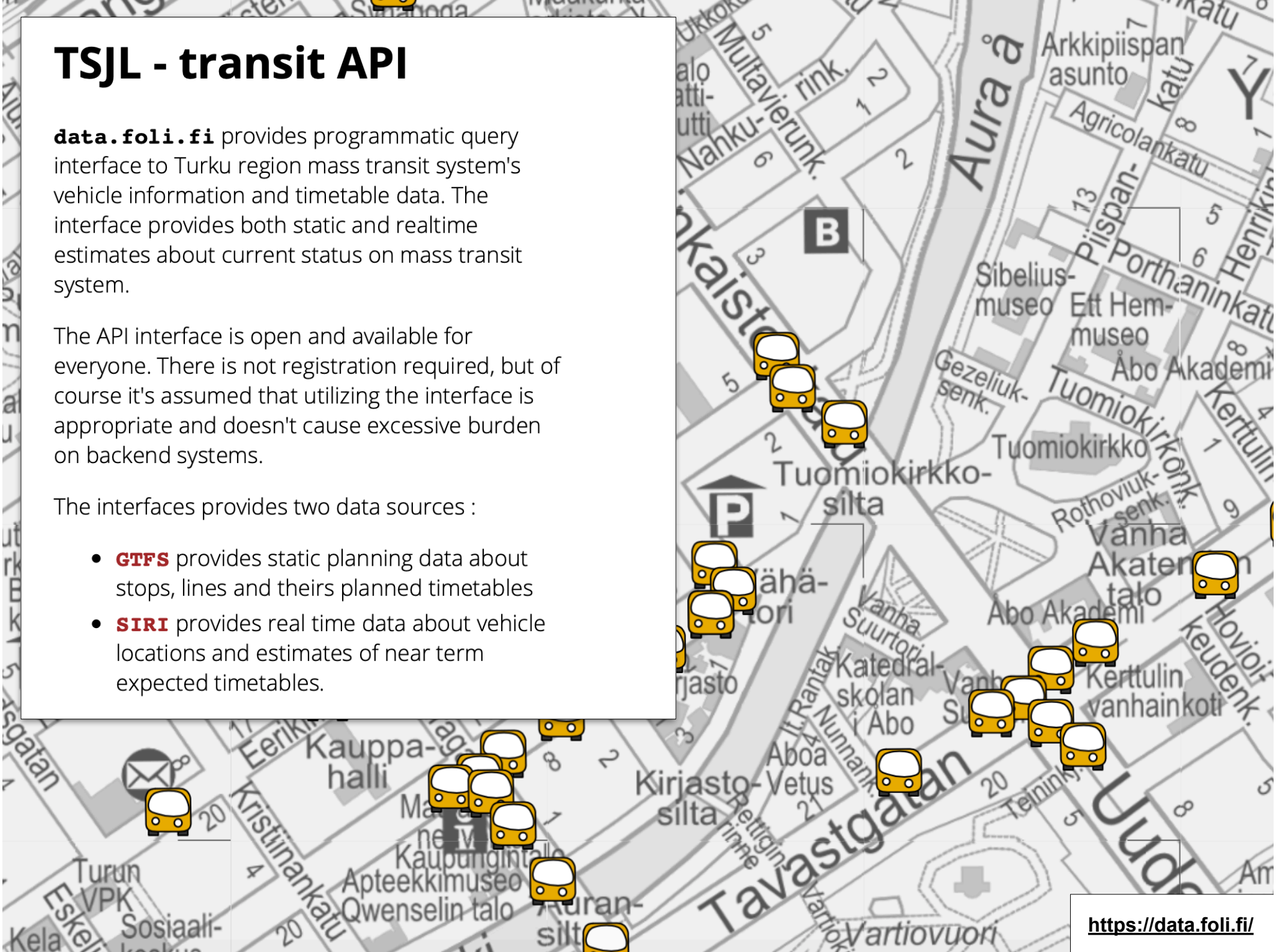
TSJL - transit API

`data.foli.fi` provides programmatic query interface to Turku region mass transit system's vehicle information and timetable data. The interface provides both static and realtime estimates about current status on mass transit system.

The API interface is open and available for everyone. There is not registration required, but of course it's assumed that utilizing the interface is appropriate and doesn't cause excessive burden on backend systems.

The interfaces provides two data sources :

- **`GTFS`** provides static planning data about stops, lines and theirs planned timetables
- **`SIRI`** provides real time data about vehicle locations and estimates of near term expected timetables.



https://data.foli.fi/

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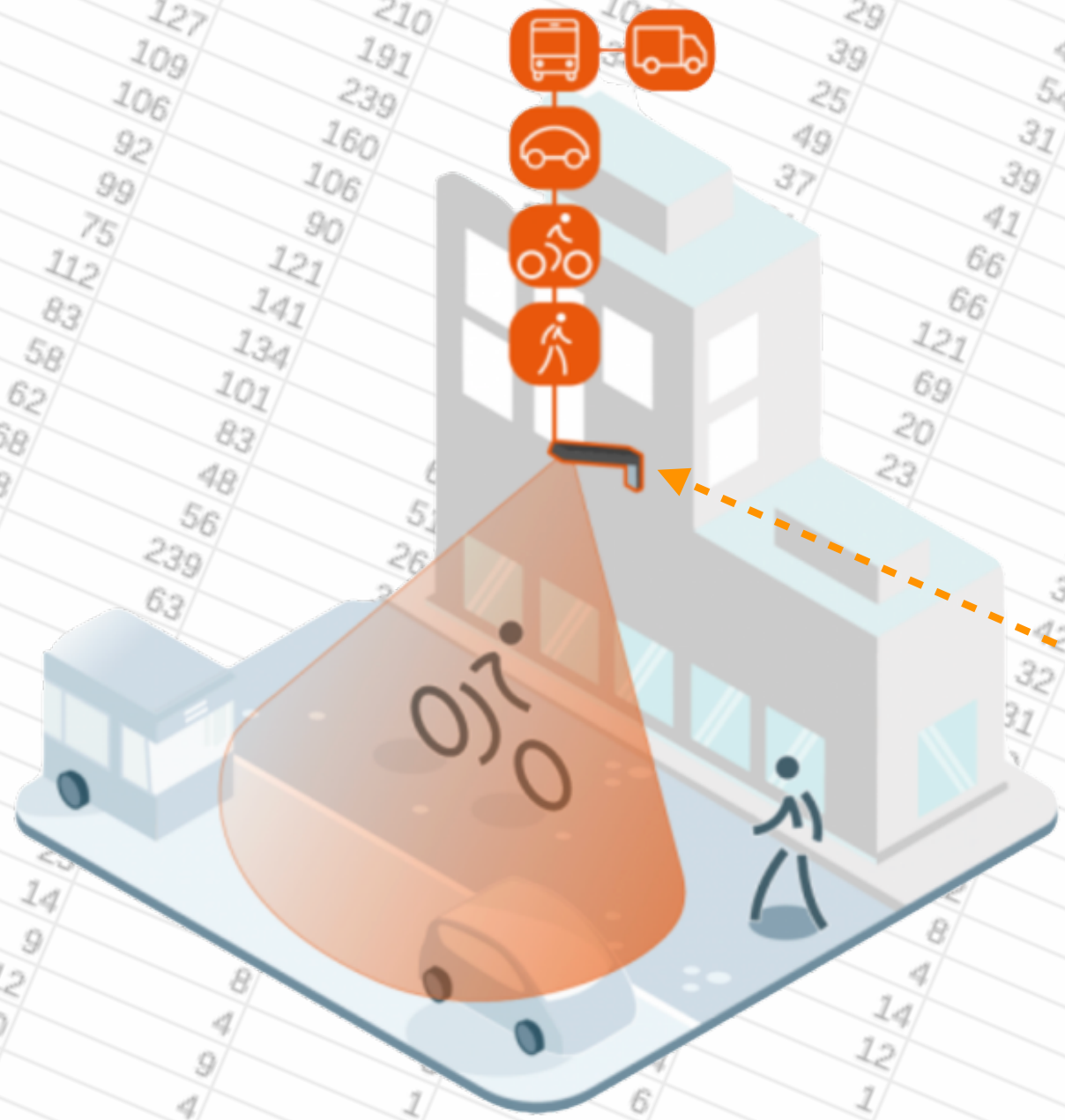
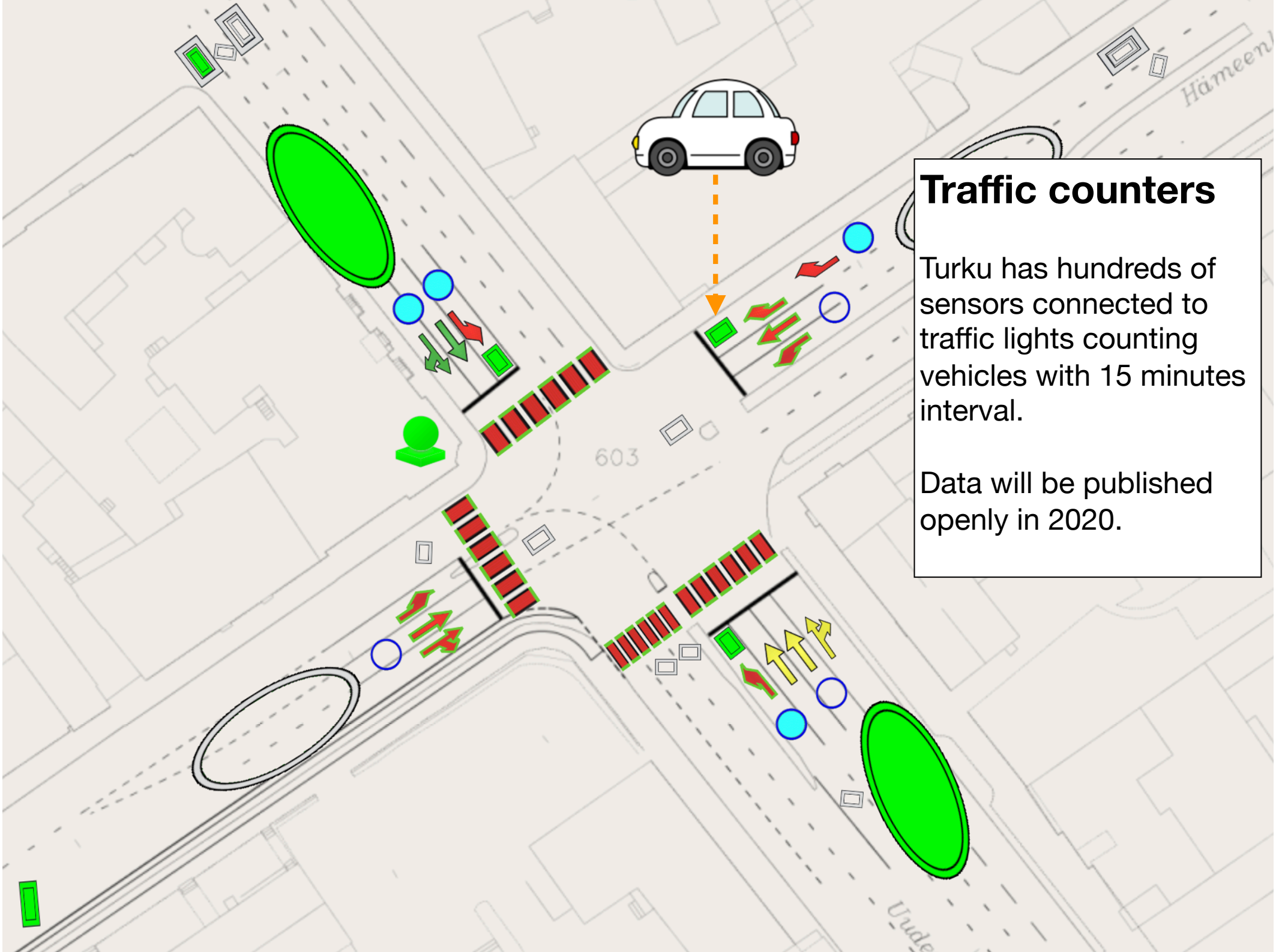
https://data.foli.fi/



Traffic counters

Turku has cameras counting pedestrians and cyclists with 15 minutes interval.

Data will be published openly in 2019.


Traffic counters
Turku has hundreds of sensors connected to traffic lights counting vehicles with 15 minutes interval.
Data will be published openly in 2020.

turku.fi

High contrast Text size A A A

Search the entire web service

SEARCH

CHILDREN AND FAMILIES ENTREPRENEURS IMMIGRANTS TRAVELLERS YOUTH

Culture and Sports Daycare and educ

Map service interfaces

The addresses of interface services maintained by the P
February 2017 onwards. It is advisable to update the ad

The WMS service (Web Map Service) is inte

The data is provided in the service as raster images that
data that is rastered and brought as so called themes ou

The data can be shared with the guide map service or cr

Queries can be made for the data available in the servic
3D, MapInfo, ArcGIS, QGIS).

The customer programme sends the Web server a GetC
server programme. RasterServer finds the data matchin
and sends it back to the customer programme. Using th

The WMS service provides the following data:

- guide map, in colour as well as in black and white
- aerial photographs
- topographical map
- city plan map
- master plan
- landownership map
- bus routes
- cycling paths
- city districts

The address of the WMS service: https://opaskartta.tu

turku.fi

High contrast Text size A A A

CHILDREN AND FAMILIES ENTREPRENEURS IMMIGRANTS TRAVELLERS YOUTH

Business Services Culture and Sports Daycare and education Health and Social Services Housing and Environment EN

TURKU

HOME > THE FEEDBACK INTERFACE HAS BEE

21.12.2017

The feedback interface has be

**The feedback service www.t
into use by the City of Turku
to be a useful and easy way
be in contact with the city.**

The feedback service accepts positive
and development propositions on cit
decision-making. The amount of feed
tripled since the service was taken in
feedback received was 19 772, of whi

As the feedback interface has been o
viewed on the open interface. The int
Open 311 standard and is intended f
system. The interface enables readin
residents.

Giving feedback is possible. Please co
more information.

Examples:

- Types of feedback: https://api.turk

api.turku.fi

Turku region Linked Events API v 1

Linked Events

OPTION

Linked Events

Turku region Linked Events API contains data from the Turku region even
API is in beta phase. To help improve the API, please don't hesitate to c
feedback or make suggestions.

The API is developed by the City of Helsinki Open Software Developm
provide API specification.

Data license

Unless otherwise stated, the data is licensed using CC BY 4.0 lic

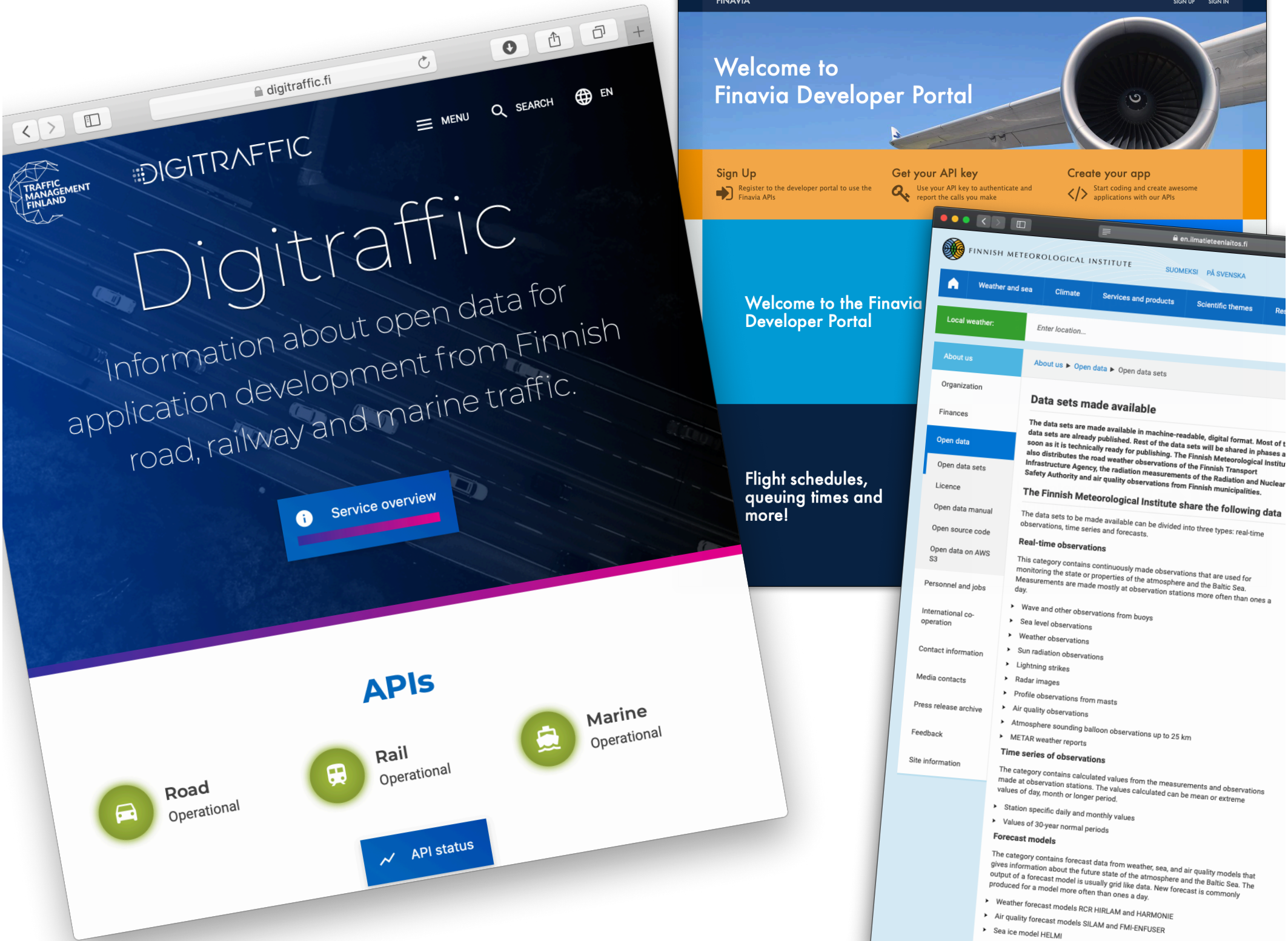
Images are licensed as *event_only* in the API. The *image* license

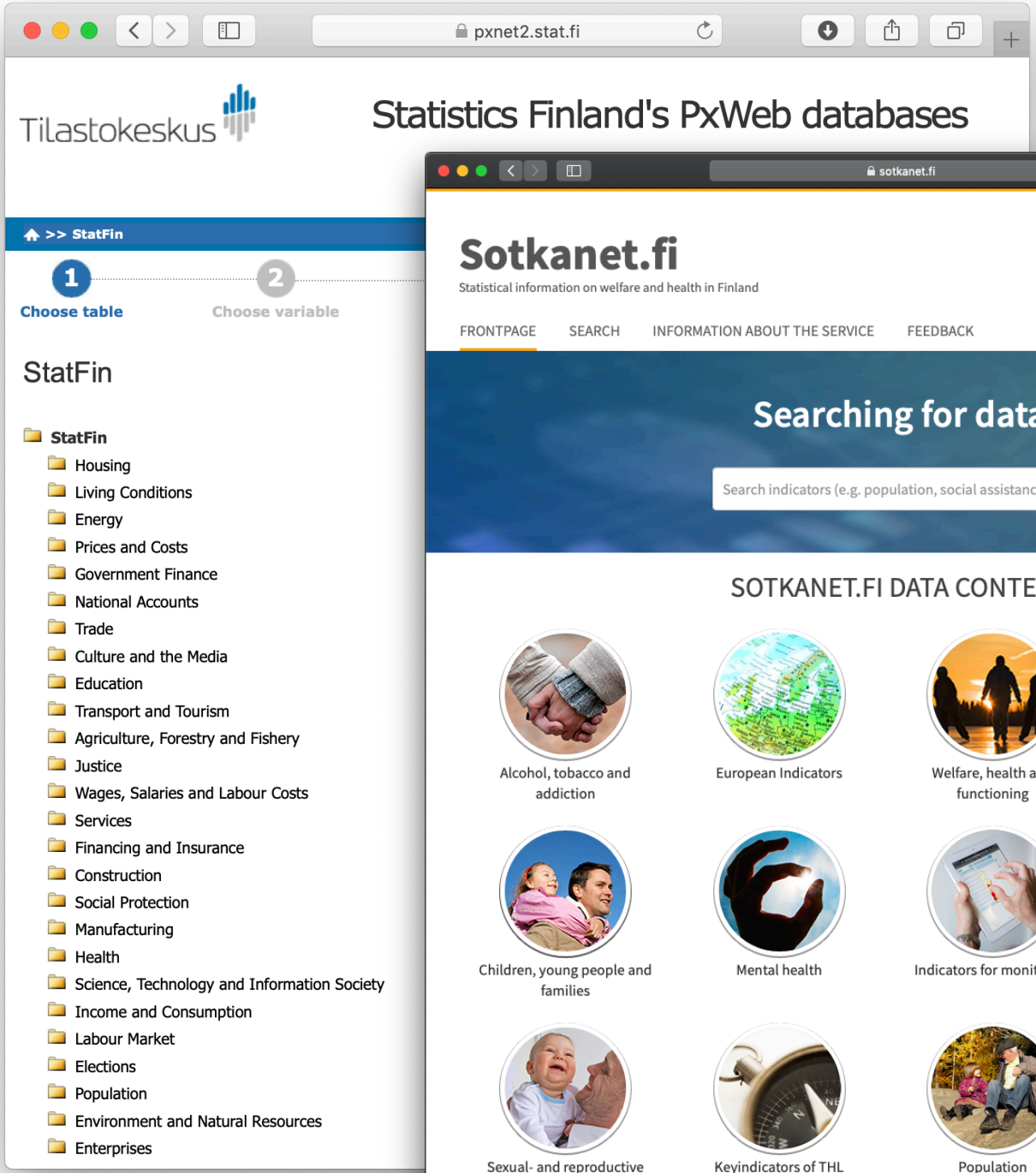
FI

Turun kaupungilla on kuviin kaikki oikeudet. Kuvia saa käyttää
tapahtumaa käsittelevään tiedotukseen ja viestintään. Kuvier
tarkoitukseen on käyttäjälle ilmaista. Kuvien käyttö tai siirto
Kuvia käytettäessä on ehdottomasti mainittava kuvien lähd

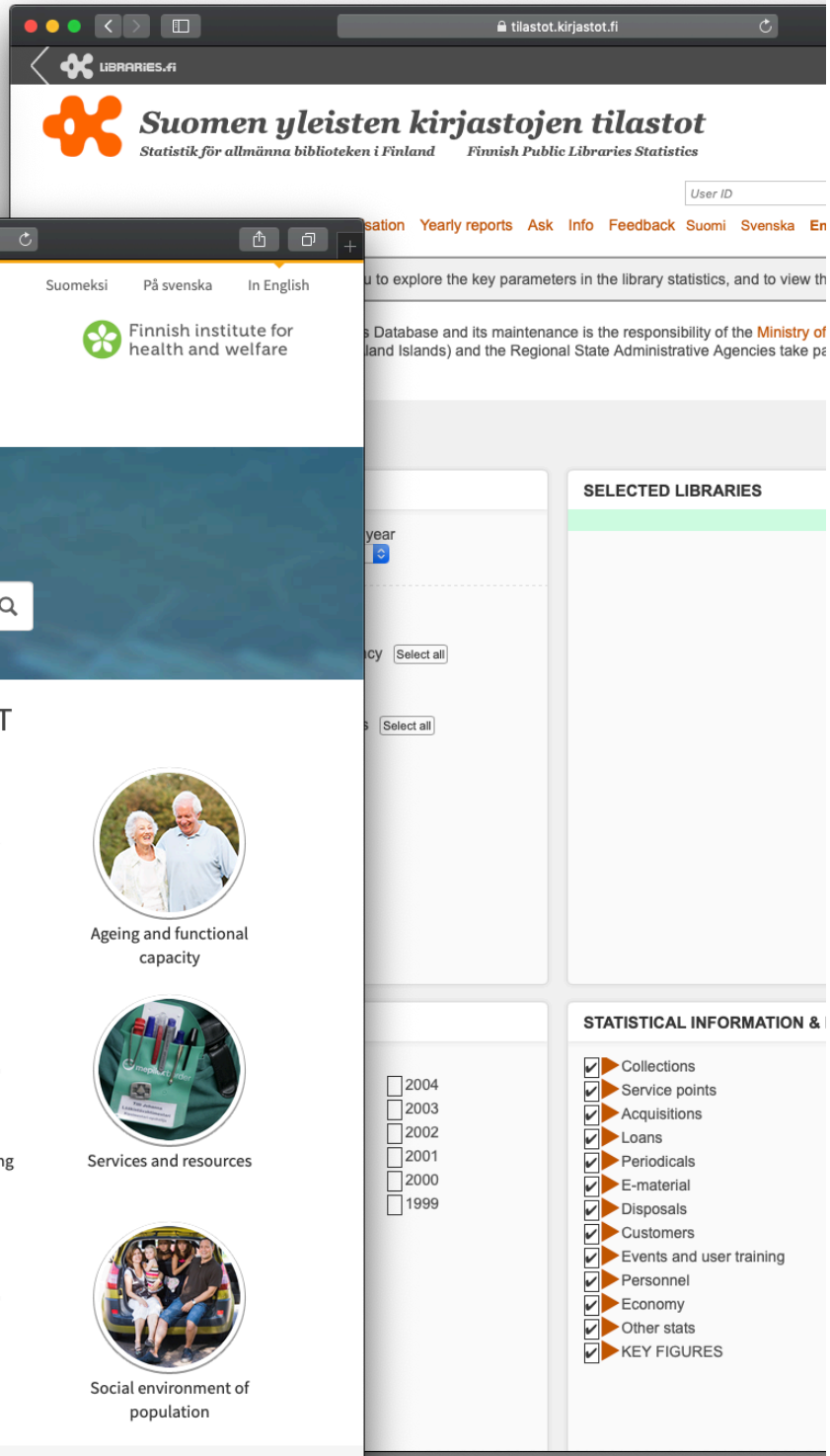
SV

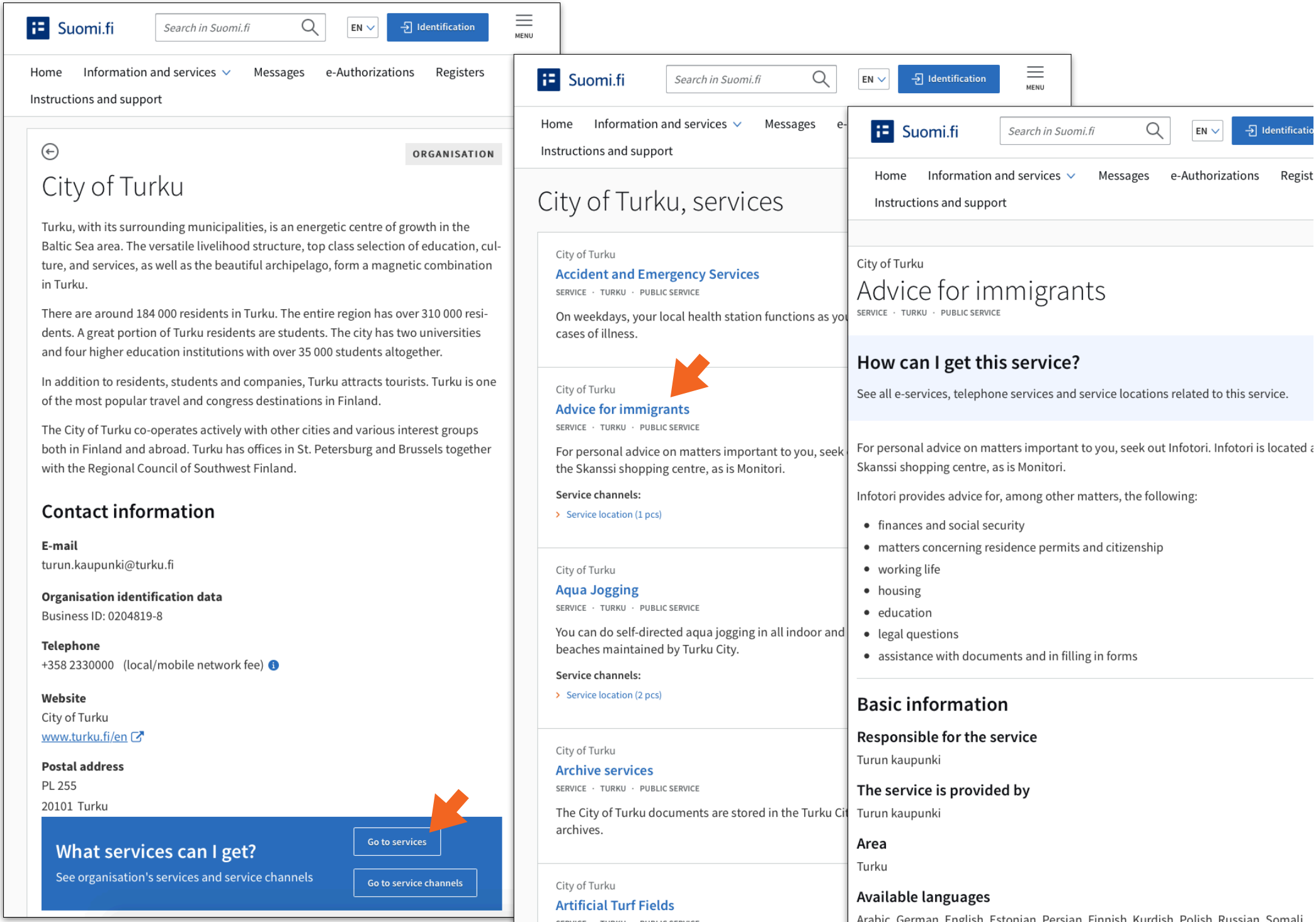
Åbo stad äger alla rättigheter till bilderna. Bilder får anvä
tion som gäller evenemanget på bilder. Att a
använda eller flytta bilder för a


digitraffic.fi
MENU
SEARCH
EN
TRAFFIC MANAGEMENT FINLAND
DIGITRAFFIC
Digitraffic
Information about open data for application development from Finnish road, railway and marine traffic.
Service overview
APIs
Road
Operational
Rail
Operational
Marine
Operational
API status
FINAVIA
SIGN UP
SIGN IN
Welcome to Finavia Developer Portal
Sign Up
Register to the developer portal to use the Finavia APIs
Get your API key
Use your API key to authenticate and report the calls you make
Create your app
Start coding and create awesome applications with our APIs
Welcome to the Finavia Developer Portal
Flight schedules, queuing times and more!
en.ilmatieteenlaitos.fi
FINNISH METEOROLOGICAL INSTITUTE
SUOMEKSI
PÅ SVENSKA
Weather and sea
Climate
Services and products
Scientific themes
Local weather:
Enter location...
About us
Organization
Finances
Open data
Open data sets
Licence
Open data manual
Open source code
Open data on AWS S3
Personnel and jobs
International co-operation
Contact information
Media contacts
Press release archive
Feedback
Site information
About us ▸ Open data ▸ Open data sets
Data sets made available
The data sets are made available in machine-readable, digital format. Most of t
data sets are already published. Rest of the data sets will be shared in phases a
soon as it is technically ready for publishing. The Finnish Meteorological Institu
also distributes the road weather observations of the Finnish Transport
Infrastructure Agency, the radiation measurements of the Radiation and Nuclear
Safety Authority and air quality observations from Finnish municipalities.
The Finnish Meteorological Institute share the following data
The data sets to be made available can be divided into three types: real-time observations, time series and forecasts.
Real-time observations
This category contains continuously made observations that are used for monitoring the state or properties of the atmosphere and the Baltic Sea. Measurements are made mostly at observation stations more often than ones a day.
Wave and other observations from buoys
Sea level observations
Weather observations
Sun radiation observations
Lightning strikes
Radar images
Profile observations from masts
Air quality observations
Atmosphere sounding balloon observations up to 25 km
METAR weather reports
Time series of observations
The category contains calculated values from the measurements and observations made at observation stations. The values calculated can be mean or extreme values of day, month or longer period.
Station specific daily and monthly values
Values of 30-year normal periods
Forecast models
The category contains forecast data from weather, sea, and air quality models that gives information about the future state of the atmosphere and the Baltic Sea. The output of a forecast model is usually grid like data. New forecast is commonly produced for a model more often than ones a day.
Weather forecast models RCR HIRLAM and HARMONIE
Air quality forecast models SILAM and FMI-ENFUSER
Sea ice model HELMI


pxnet2.stat.fi
Tilastokeskus
Statistics Finland's PxWeb databases
>> StatFin
1
Choose table
2
Choose variable
StatFin
StatFin
Housing
Living Conditions
Energy
Prices and Costs
Government Finance
National Accounts
Trade
Culture and the Media
Education
Transport and Tourism
Agriculture, Forestry and Fishery
Justice
Wages, Salaries and Labour Costs
Services
Financing and Insurance
Construction
Social Protection
Manufacturing
Health
Science, Technology and Information Society
Income and Consumption
Labour Market
Elections
Population
Environment and Natural Resources
Enterprises

sotkanet.fi
Suomeksi
På svenska
In English
Sotkanet.fi
Statistical information on welfare and health in Finland
Finnish institute for health and welfare
FRONTPAGE
SEARCH
INFORMATION ABOUT THE SERVICE
FEEDBACK
Searching for data
Search indicators (e.g. population, social assistance,
SOTKANET.FI DATA CONTENT
Alcohol, tobacco and addiction
European Indicators
Welfare, health and functioning
Ageing and functional capacity
Children, young people and families
Mental health
Indicators for monitoring
Services and resources
Sexual- and reproductive health
Keyindicators of THL
Population
Social environment of population
HOW SOTKANET.FI WORKS


tilastot.kirjastot.fi
LIBRARIES.FI
Suomen yleisten kirjastojen tilastot
Statistik för allmänna biblioteken i Finland
Finnish Public Libraries Statistics
User ID
Yearly reports
Ask
Info
Feedback
Suomi
Svenska
SELECTED LIBRARIES
STATISTICAL INFORMATION &
Collections
Service points
Acquisitions
Loans
Periodicals
E-material
Disposals
Customers
Events and user training
Personnel
Economy
Other stats
KEY FIGURES
2004
2003
2002
2001
2000
1999


Suomi.fi
Search in Suomi.fi
EN
Identification
MENU
Home
Information and services
Messages
e-Authorizations
Registers
Instructions and support
ORGANISATION
City of Turku
Turku, with its surrounding municipalities, is an energetic centre of growth in the Baltic Sea area. The versatile livelihood structure, top class selection of education, culture, and services, as well as the beautiful archipelago, form a magnetic combination in Turku.
There are around 184 000 residents in Turku. The entire region has over 310 000 residents. A great portion of Turku residents are students. The city has two universities and four higher education institutions with over 35 000 students altogether.
In addition to residents, students and companies, Turku attracts tourists. Turku is one of the most popular travel and congress destinations in Finland.
The City of Turku co-operates actively with other cities and various interest groups both in Finland and abroad. Turku has offices in St. Petersburg and Brussels together with the Regional Council of Southwest Finland.
Contact information
E-mail
turun.kaupunki@turku.fi
Organisation identification data
Business ID: 0204819-8
Telephone
+358 2330000 (local/mobile network fee)
Website
City of Turku
www.turku.fi/en
Postal address
PL 255
20101 Turku
What services can I get?
See organisation's services and service channels
Go to services
Go to service channels
City of Turku, services
City of Turku
Accident and Emergency Services
SERVICE · TURKU · PUBLIC SERVICE
On weekdays, your local health station functions as you
cases of illness.
City of Turku
Advice for immigrants
SERVICE · TURKU · PUBLIC SERVICE
For personal advice on matters important to you, seek
the Skanssi shopping centre, as is Monitori.
Service channels:
Service location (1 pcs)
City of Turku
Aqua Jogging
SERVICE · TURKU · PUBLIC SERVICE
You can do self-directed aqua jogging in all indoor and
beaches maintained by Turku City.
Service channels:
Service location (2 pcs)
City of Turku
Archive services
SERVICE · TURKU · PUBLIC SERVICE
The City of Turku documents are stored in the Turku Cit
archives.
City of Turku
Artificial Turf Fields
SERVICE · TURKU · PUBLIC SERVICE
Both public and regular reservations for the artificial tu
Identificatio
Regist
City of Turku
Advice for immigrants
SERVICE · TURKU · PUBLIC SERVICE
How can I get this service?
See all e-services, telephone services and service locations related to this service.
For personal advice on matters important to you, seek out Infotori. Infotori is located a
Skanssi shopping centre, as is Monitori.
Infotori provides advice for, among other matters, the following:
finances and social security
matters concerning residence permits and citizenship
working life
housing
education
legal questions
assistance with documents and in filling in forms
Basic information
Responsible for the service
Turun kaupunki
The service is provided by
Turun kaupunki
Area
Turku
Available languages
Arabic, German, English, Estonian, Persian, Finnish, Kurdish, Polish, Russian, Somali

Copernicus
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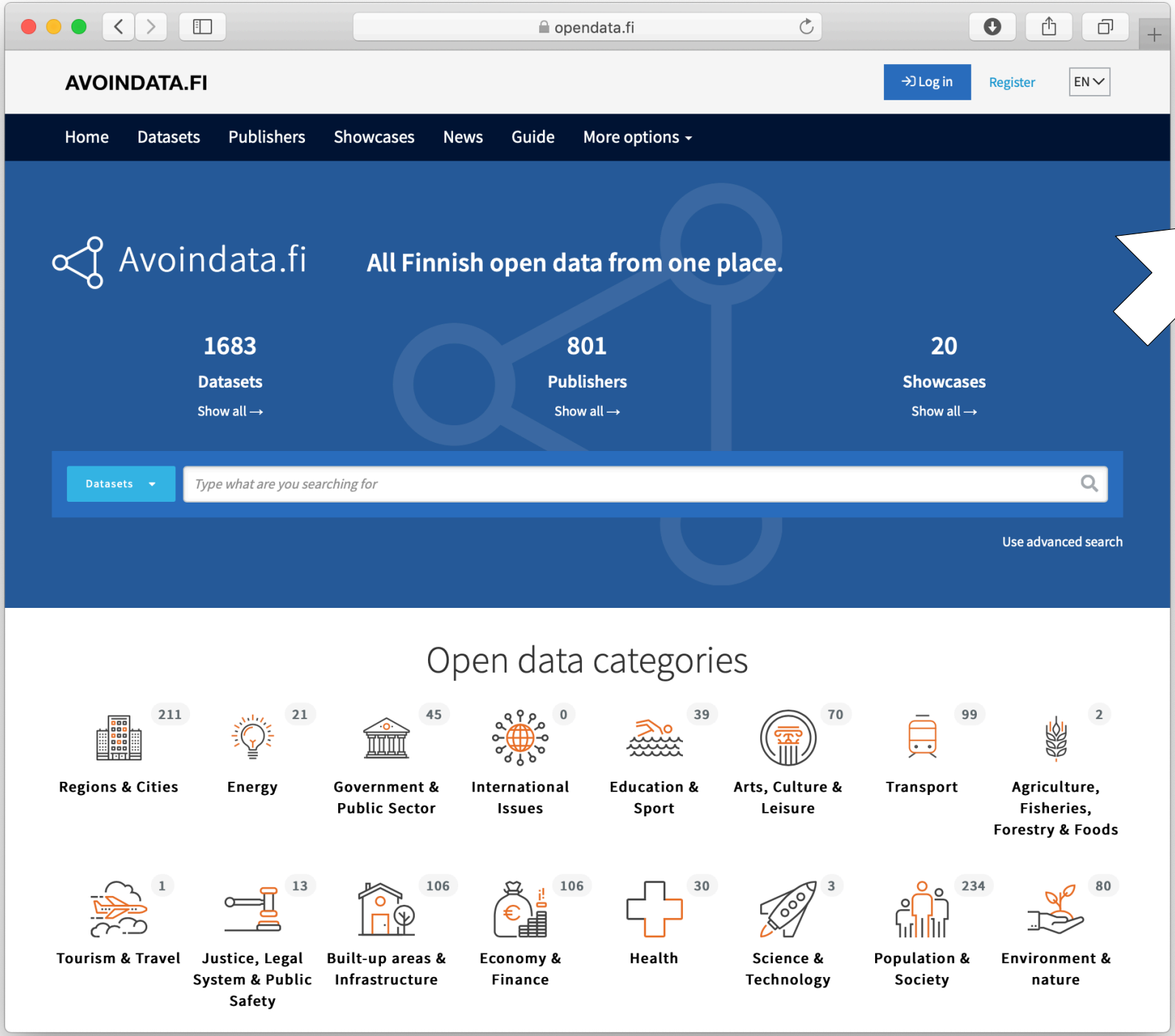
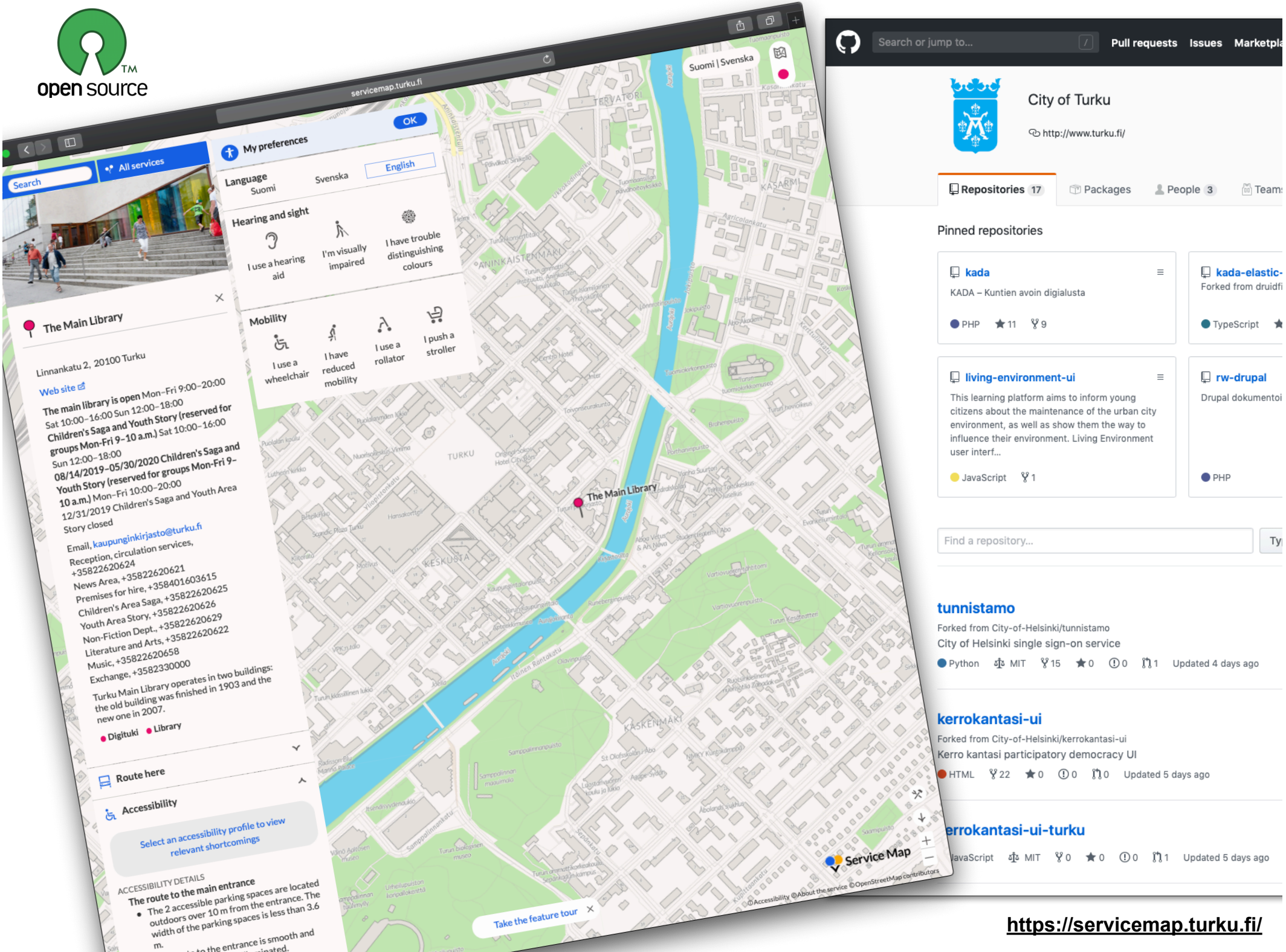


Meta-data to EU

http://opendata.fi

open source



https://servicemap.turku.fi/

Thank you!

You can reach us via email
opendata@turku.fi

TURKU
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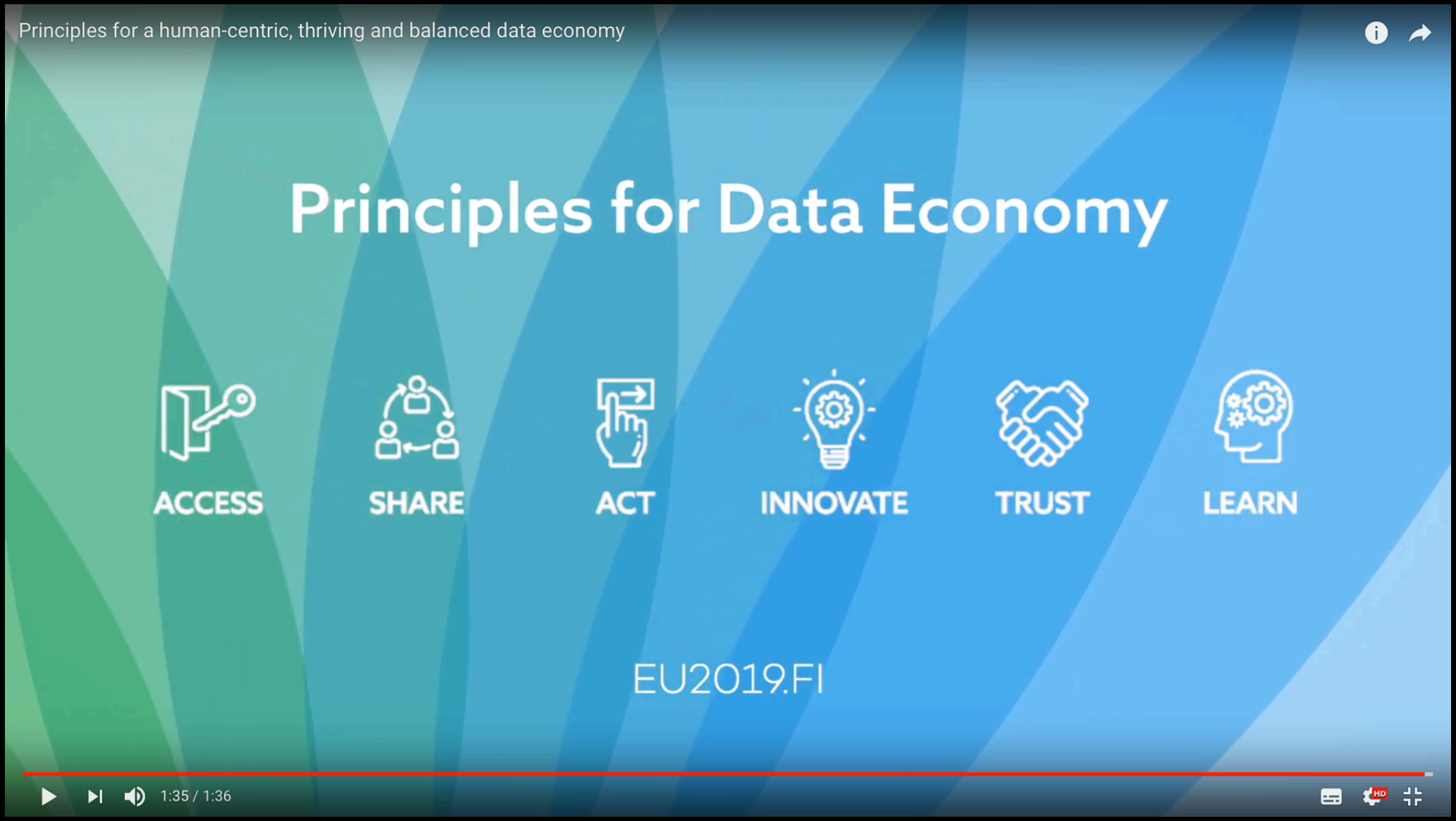
Principles for a human-centric, thriving and balanced data economy
Principles for Data Economy
ACCESS
SHARE
ACT
INNOVATE
TRUST
LEARN
EU2019.FI
1:35 / 1:36