

# OpenStreetMap in the public sector

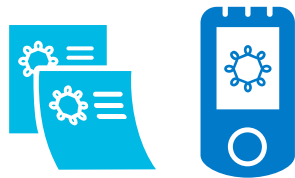
## case HSL

Helsinki Loves Developers 4.10.2018  
Markku Huotari, HSL

# What does HSL do?



Is responsible for the preparation of the Helsinki Region Transport System Plan (HLJ).



Approves the public transport fare and ticketing system as well as public transport fares.



Plans and organizes public transport in the region and work to improve its operating conditions.



Is responsible for public transport marketing and passenger information.



Procures bus, tram, Metro, ferry and commuter train services.



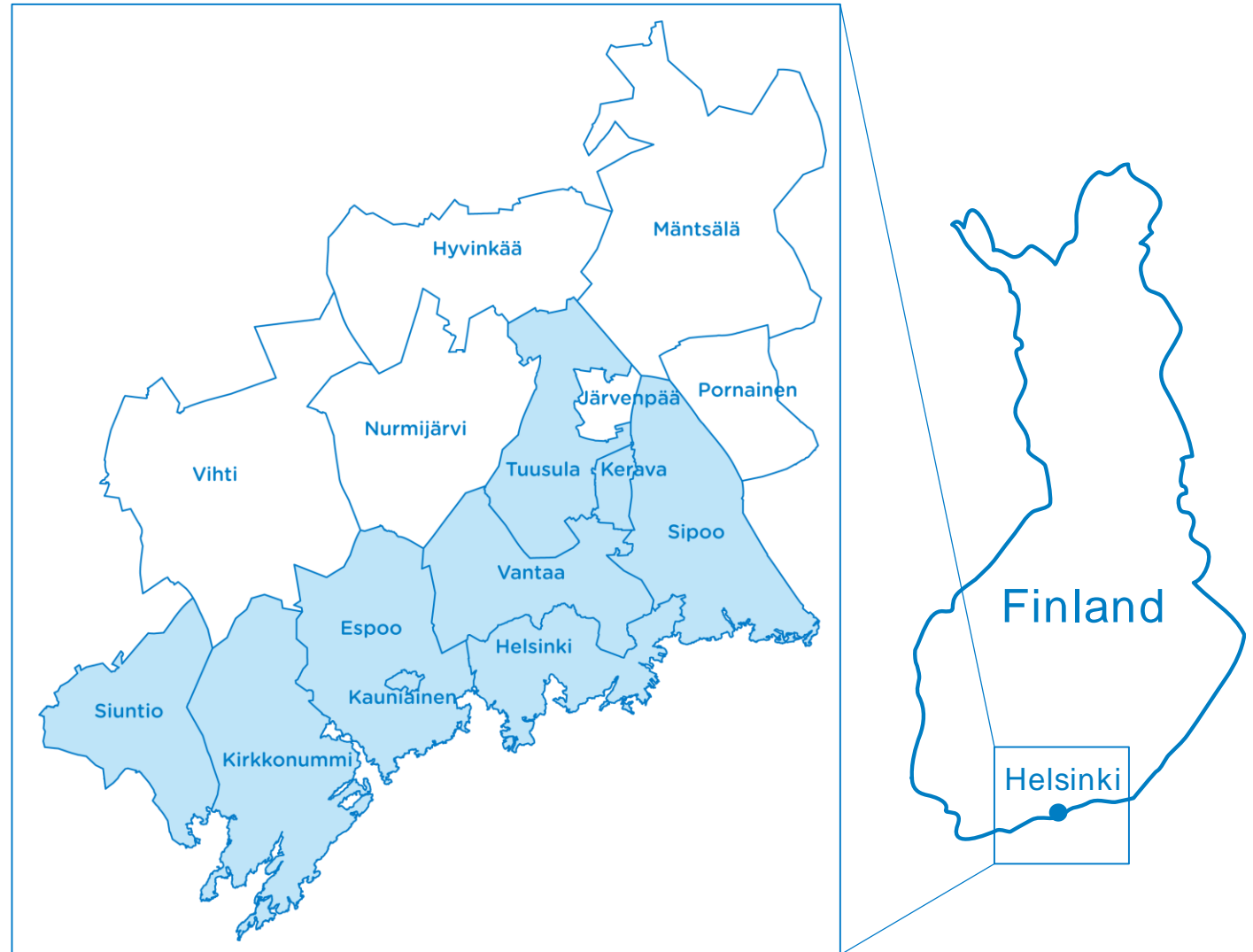
Organizes ticket sales and is responsible for ticket inspections.

# Cooperation area of HSL



9 municipalities:  
Helsinki, Espoo,  
Kauniainen, Vantaa,  
Kerava, Kirkkonummi,  
Sipoo, from 1 Jan 2018  
Tuusula and Siuntio

According to its charter,  
HSL may expand to cover  
all 14 municipalities in  
the region.



# Map production renewal



- Consistent visual look and feel for all our maps
  - Digital and printed maps
- Systematic and effective processes
  - Reduce manual work
  - Ability to react on changes
  - **Use of OSM as main data source**
  - Map products based on customer needs
- Renew public transport register's map interface as well
  - Out of date technology and & lacking map functionalities

# HSL's maps 2018



one map style  
several zooming levels  
source data as vector layers  
<https://github.com/HSLdevcom/hsl-map-style>



# Journey Planner

The screenshot shows the Reittiopas web application. The browser address bar displays the URL <https://www.reittiopas.fi/Laituri%2C%20Narinkka>. The page header includes the Reittiopas logo, language selection (FI, SV, EN), and a warning icon. The main map area shows a street map of Helsinki with various transit stops marked by icons. A search bar at the top left contains the text "Laituri, Narinkka 2, Helsinki". Below it, a search bar prompts the user to "Search destination, route or stop". On the right side, a "NEAR YOU" panel lists nearby transit stops with their distance, route number, destination, and departure times.

To stop	Route	Destination	Leaves	Next
80m	025	Narinkka	Bikes 14/39	✓
150m	280	Veikkola	9 min	14:15
150m	355T	Klaukkala	14:00	15:05
150m	465	Syväoja	14:05	14:35
150m	848	Porvoo via Söderkulla	14:18	14:48
150m	456	Nurmijärvi	14:20	
150m	643	Hyrylä	14:20	
150m	665	Kellokoski	14:30	
150m	689K	Haarajoki	14:45	
150m	455	Luhtaanmäki	14:50	15:05

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Map tiles

Geocoding

Routing

# Journey Planner (routing)

The screenshot shows the Reittiopas web application. The browser address bar displays the URL <https://www.reittiopas.fi/Vilhonvuoren>. The page header includes the Reittiopas logo, language options (FI, SV, EN), and a warning icon. A search bar on the left contains the address "Vilhonvuorenkatu 11, Helsinki". A map of the area is shown with various colored lines representing transit routes. A sidebar on the right lists nearby routes under the heading "NEAR YOU".

To stop	Route	Destination	Leaves	Next
80m	121	Vilhonvuorenkatu	Bikes 1/17	
150m	55	Koskela via Kalasata...	7 min	14:15
200m	16	Korkeasaari via Kalas...	7 min	14:12
200m	16	Rautatientori	14:03	14:24
200m	55	Rautatientori	14:03	14:16
260m	65	Veräjäläakso via Käti...	Now	14:04
260m	67	Torpparinmäki via M...	Now	14:07
260m	61	Siltamäki via Pukim...	5 min	14:08
260m	611	Tikkurila as. via Suut...	6 min	14:08
260m	66	Paloheinä via Maunula	9 min	14:14

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[reittiopas.fi/?debugTiles](https://reittiopas.fi/?debugTiles)

walk

stairs

walk / bike

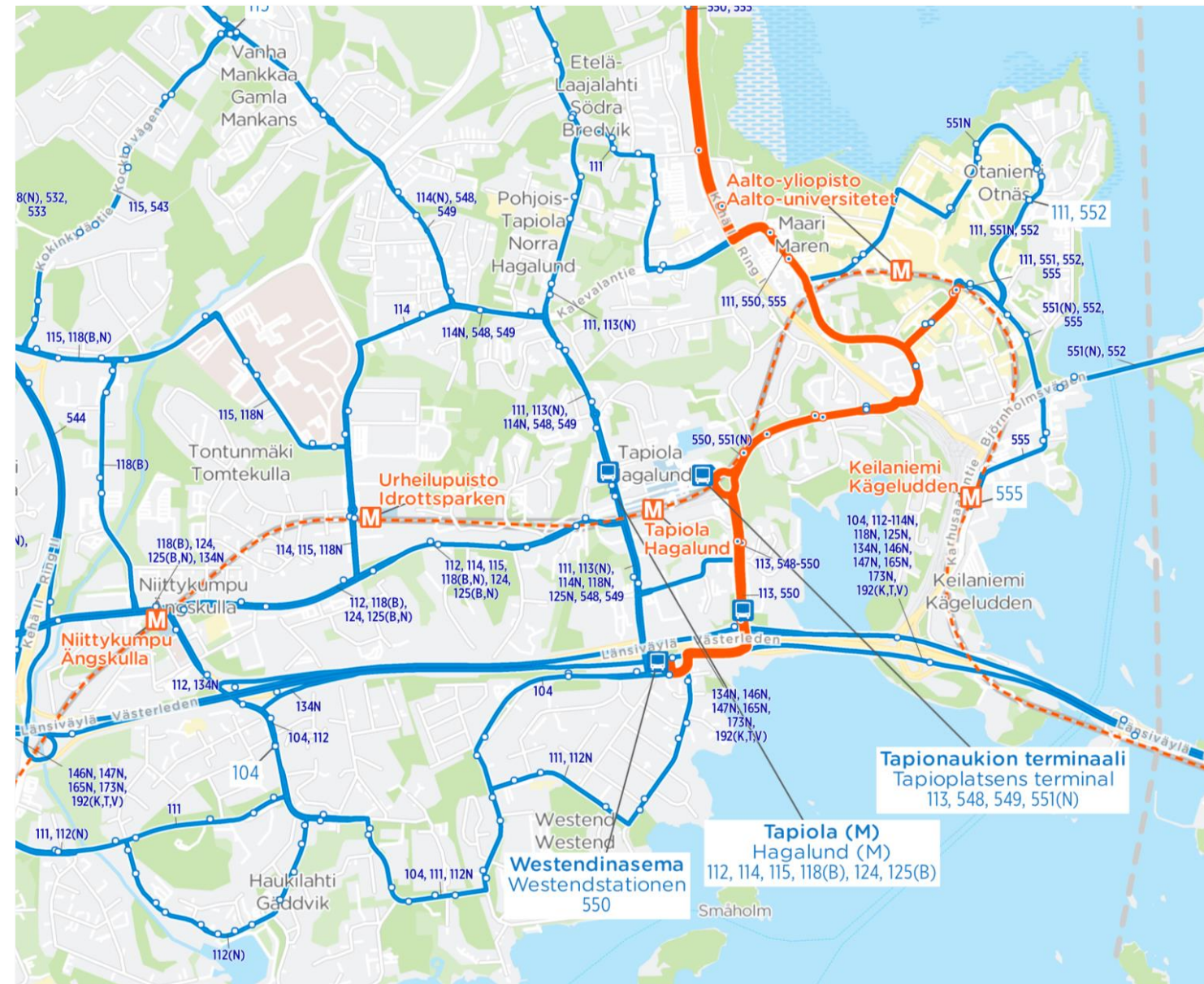
walk / bike / car

car / unconnected

link



# Route Maps





# Stop posters

[illegible][illegible][illegible][illegible]


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[illegible]

# Working with the community



- OSM-wiki
  - Digitransit : <https://wiki.openstreetmap.org/wiki/Digitransit>
  - Explicit permission to import HSL CCBY40 data to OSM
- Mapathons & demos
  - Cooperation with HOT-OSM Finland & Digitransit stakeholders
  - Different mapping themes at various events
  - Simple examples ( eg. adding buildings, POIs, stops & roads/paths)



# OSM as the authority's official map



- Pros
  - Ability to react fast on changes
  - Crowdsourcing → you don't need to do everything yourself
  - One new possible channel to distribute your own data
  - Channel for data validation
  
- Cons
  - Uncertainty about the quality of the data
    - Some areas better mapped than others
    - Diversity in individual mapper's principles
  - Challenges between developer's and GIS professional's formats & standards
    - TMS vs WMS/WMTS & web mercator vs ETRS



# Further information

## Markku Huotari

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**Twitter :** [MarkkuHuotari](https://twitter.com/MarkkuHuotari)

## Helsinki Region Transport

**Open data :** <https://www.hsl.fi/en/opendata>

**Developer Community :** <https://dev.hsl.fi/>

**Github :** <https://github.com/HSLdevcom>

**Twitter :** [HSLdevcom](https://twitter.com/HSLdevcom)