

# Traffic Data in Helsinki

Helsinki Loves Developers 25.11.2019

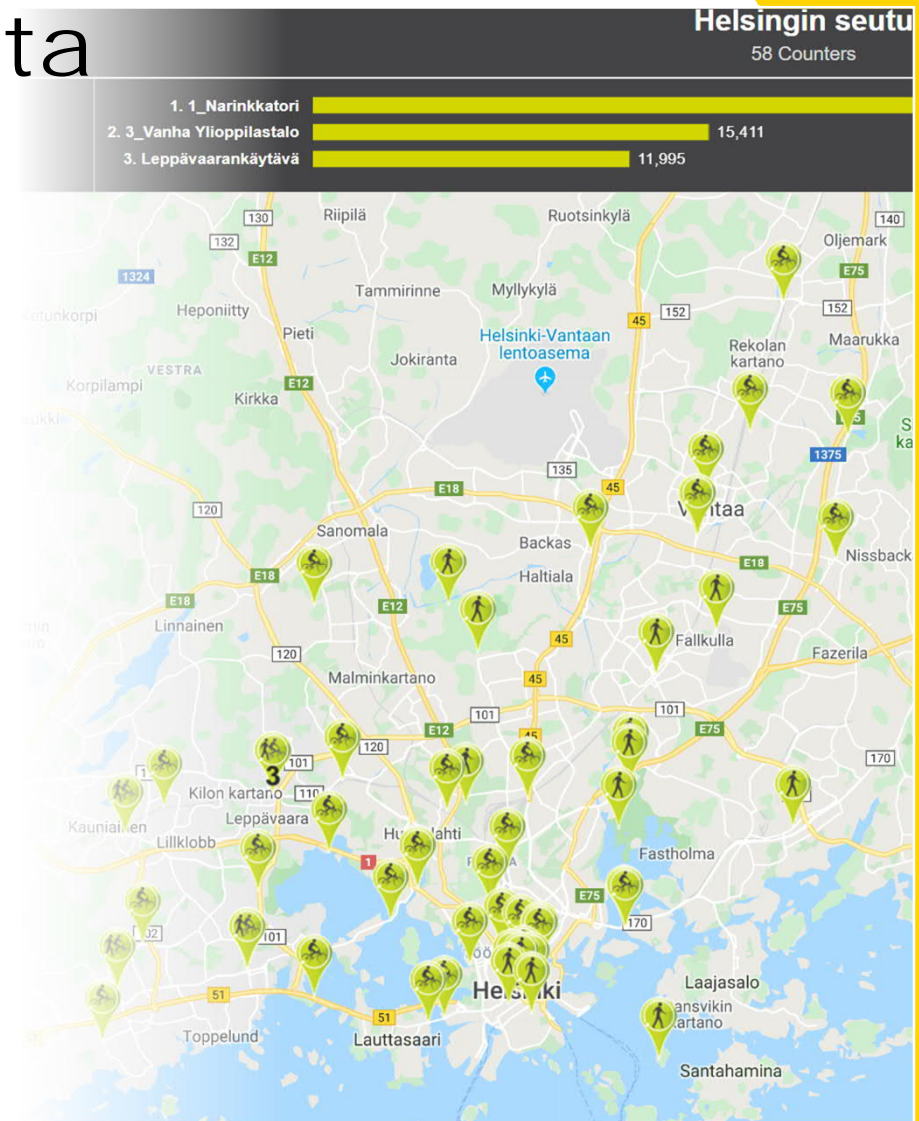
Katja Moilanen  
Traffic Researcher

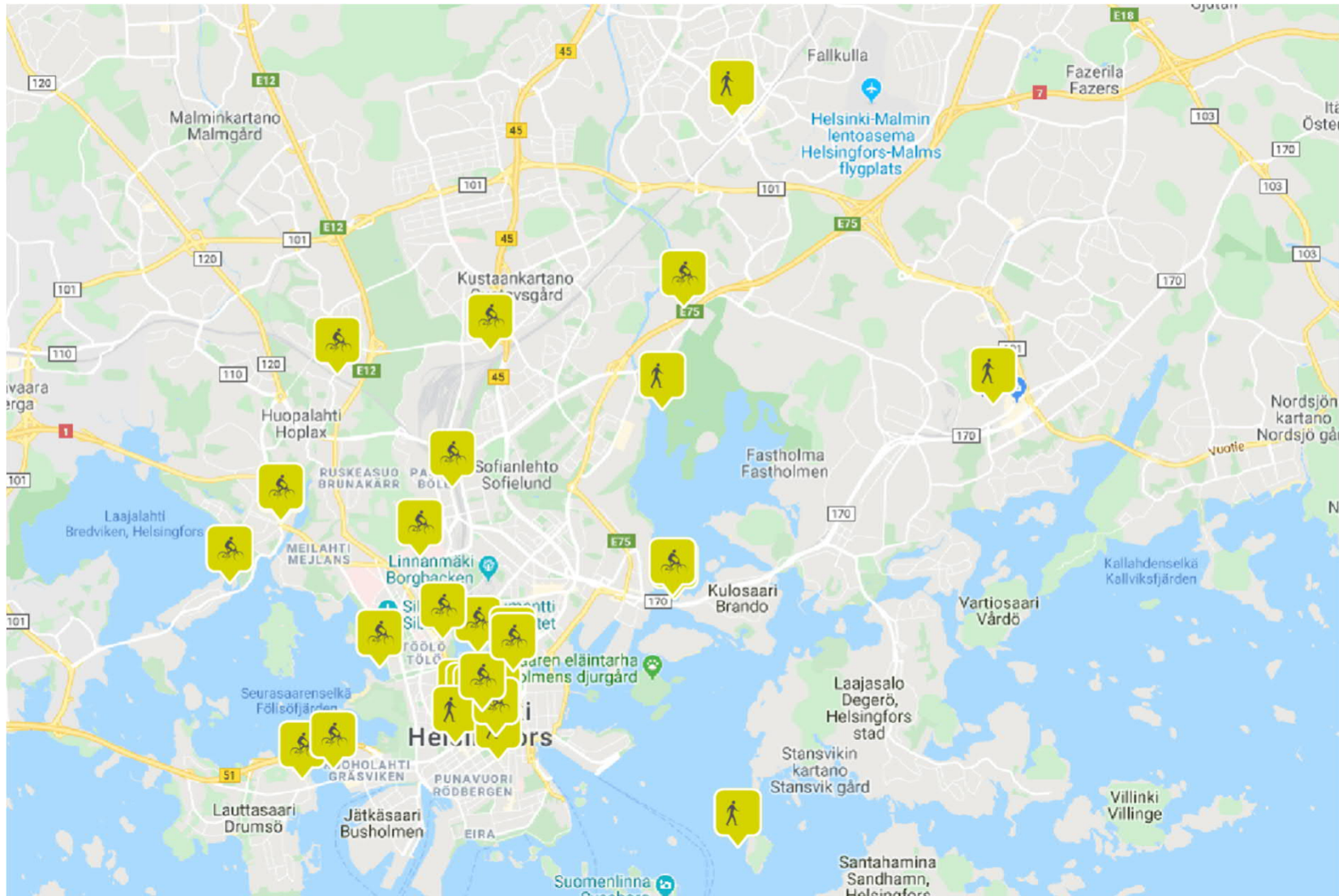
Helsinki

# Cycling and pedestrian data

- About 20 bicycle counters (in 16 locations)
  - Automatic and continuous data collection
- History data can be found from [HRI](#) –website
  - csv, manual updating
  - Since 2014
  - Includes number of bicycles per hour (no directions)
- Data sharing is currently under development
  - Target is to share data via API
  - Counters transmit the data once a day
- Eight pedestrian counters
  - Number of pedestrians per hour and directions
  - Data not open (yet)
  - Data quality is not so good
- Public view of EcoCounters (Helsinki region):  
<https://www.eco-public.com/ParcPublic/?id=5589>

Helsinki





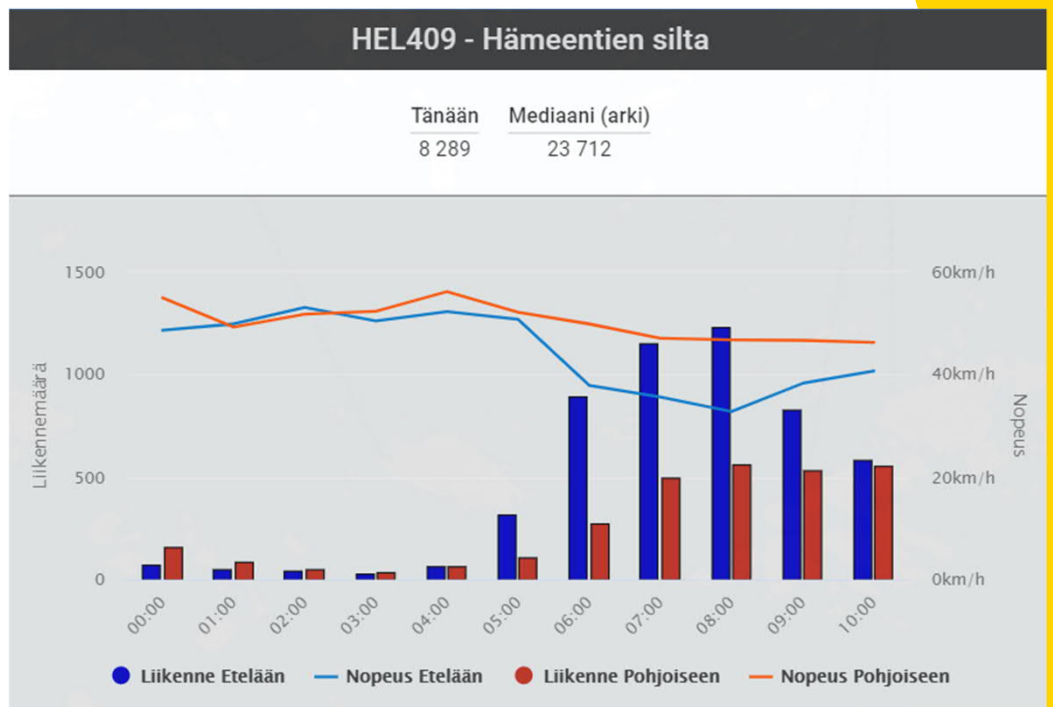
Helsinki

EcoCounters in Helsinki

# Car Traffic Data

- 20 new automatic counters
  - Data collection started in the beginning of 2019
  - Nearly real-time volumes by directions
  - Speed measuring and vehicle classification in three location
- Traffic measuring locations are old and data has been collected for years before (but not as comprehensively)

Helsinki



# Car Traffic Data

- REST API almost open for public...
    - The data still has some errors we want to fix
    - Available information:
      - Number of cars by directions
      - Speed information and coarse vehicle classification (in few locations)
      - Measuring periods: last hour (5 mins), last day (hours) and last month (days)
  - Public map view: <https://helsinki-public.azurewebsites.net/>
  - API: <https://lamapi.azurewebsites.net/swagger/index.html>
- (Warning! the data may still contain some errors, use at your own risk 😊)



FI EN

Aloitusaika

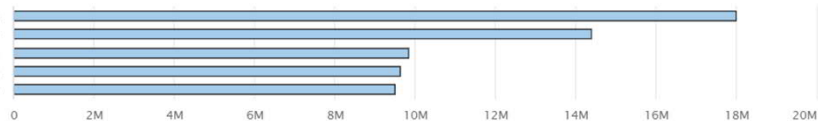
01.01.2019

Lopetusaika

25.11.2019



HEL504 - Hämeenlinnanväylä  
HEL609 - Lapinlahdensilta  
HEL510 - Makelankatu  
HEL508 - Hakaniemen silta  
HEL501 - Ruskeasuo



Ajoneuvoliikenteen kokonaismäärä

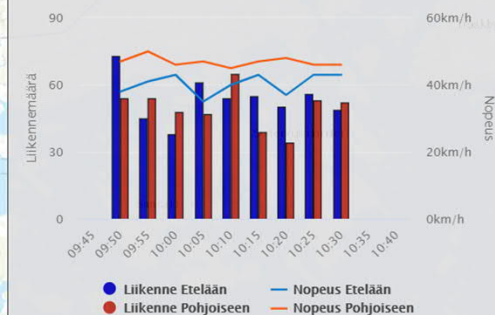
128 092 967

Tänään  
157 405Päivittäinen keskiarvo  
389 341

## HEL409 - Hämeentien silta

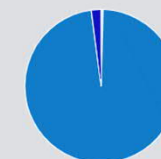
Tänään  
7 763

Mediaani (arki)  
23 712



Etelään

Pohjoiseen



Kaksipyöräiset (0.4%)  
Henkilöautot (97.5%)  
Raskaat ajoneuvot (2.1%)



Kaksipyöräiset (0.7%)  
Henkilöautot (97.8%)  
Raskaat ajoneuvot (1.6%)

TUNTI

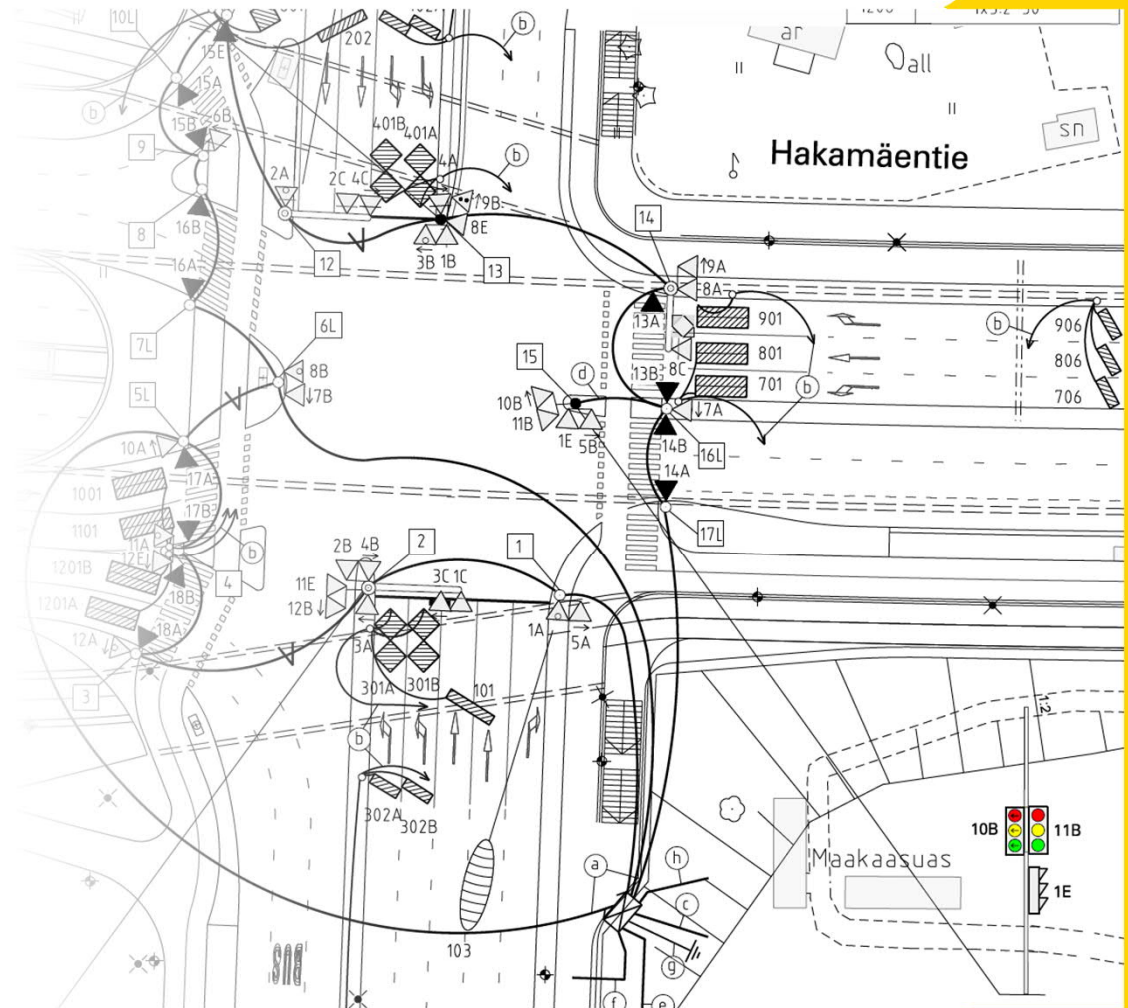
VUOROKAUSI

KUUKAUSI

National Land Survey of Finland. Esri. HERE. Garmin. USGS. NGA

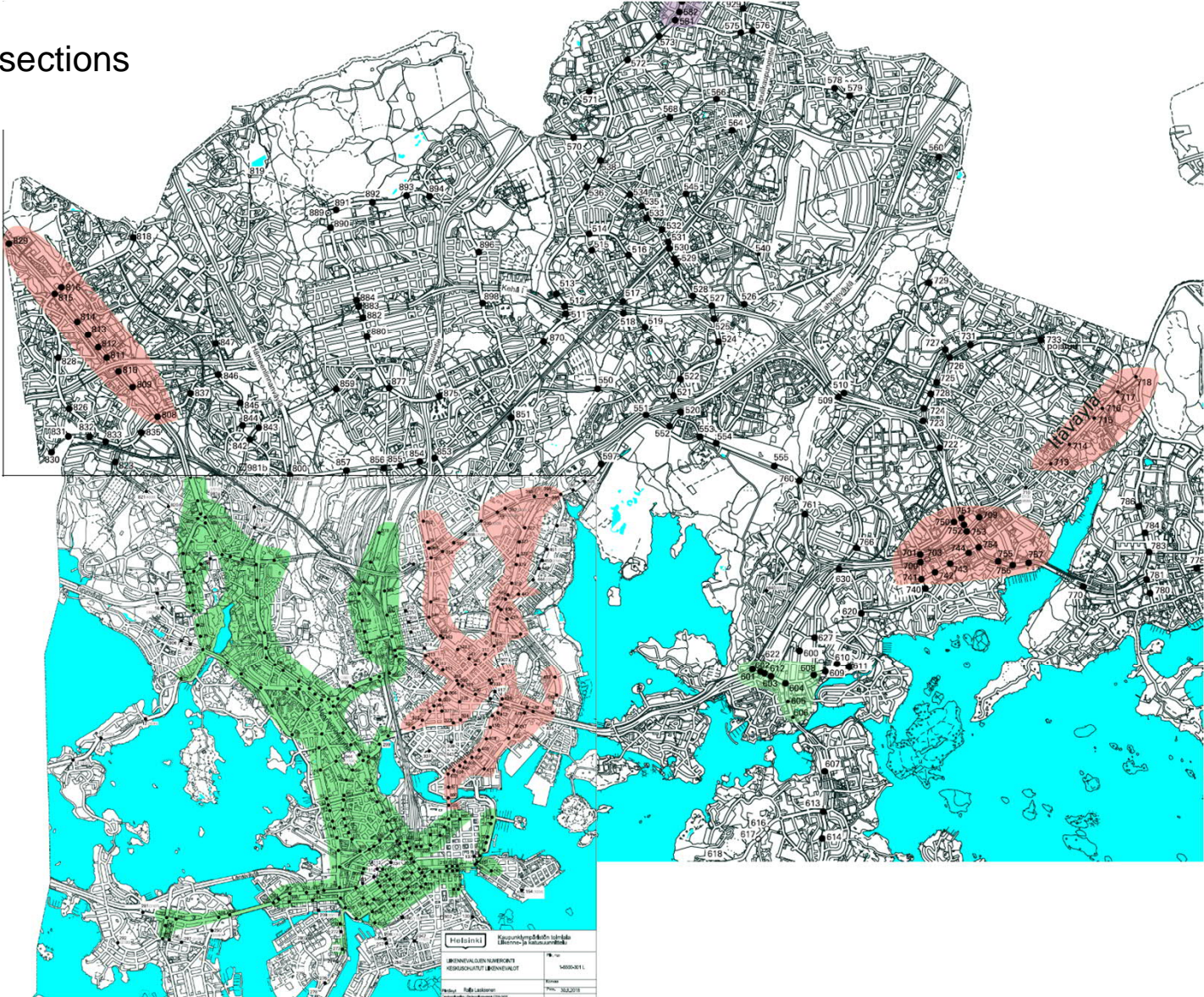
# Traffic lights

- Potential data source, yet rather little used
- About 120 intersections can automatically collect and send traffic information (red areas in next slide)
  - Number of cars (and potentially bicycles) in lanes
  - Possibly also operational data (signal state...)
- At the moment data can be fetched manually
- However, traffic light detectors (loops) are not originally designed to count traffic and there are still many problems to solve before data opening:
  - Data accuracy?
  - Data storage, sharing and presentation?
  - Need for extra loops?





Traffic light intersections  
in Helsinki



Helsinki



**Thank you for your attention!**

Katja Moilanen  
[katja.moilanen@hel.fi](mailto:katja.moilanen@hel.fi)  
+358 40 185 8046

Helsinki