



Air quality data of Helsinki Region Environmental Services Authority

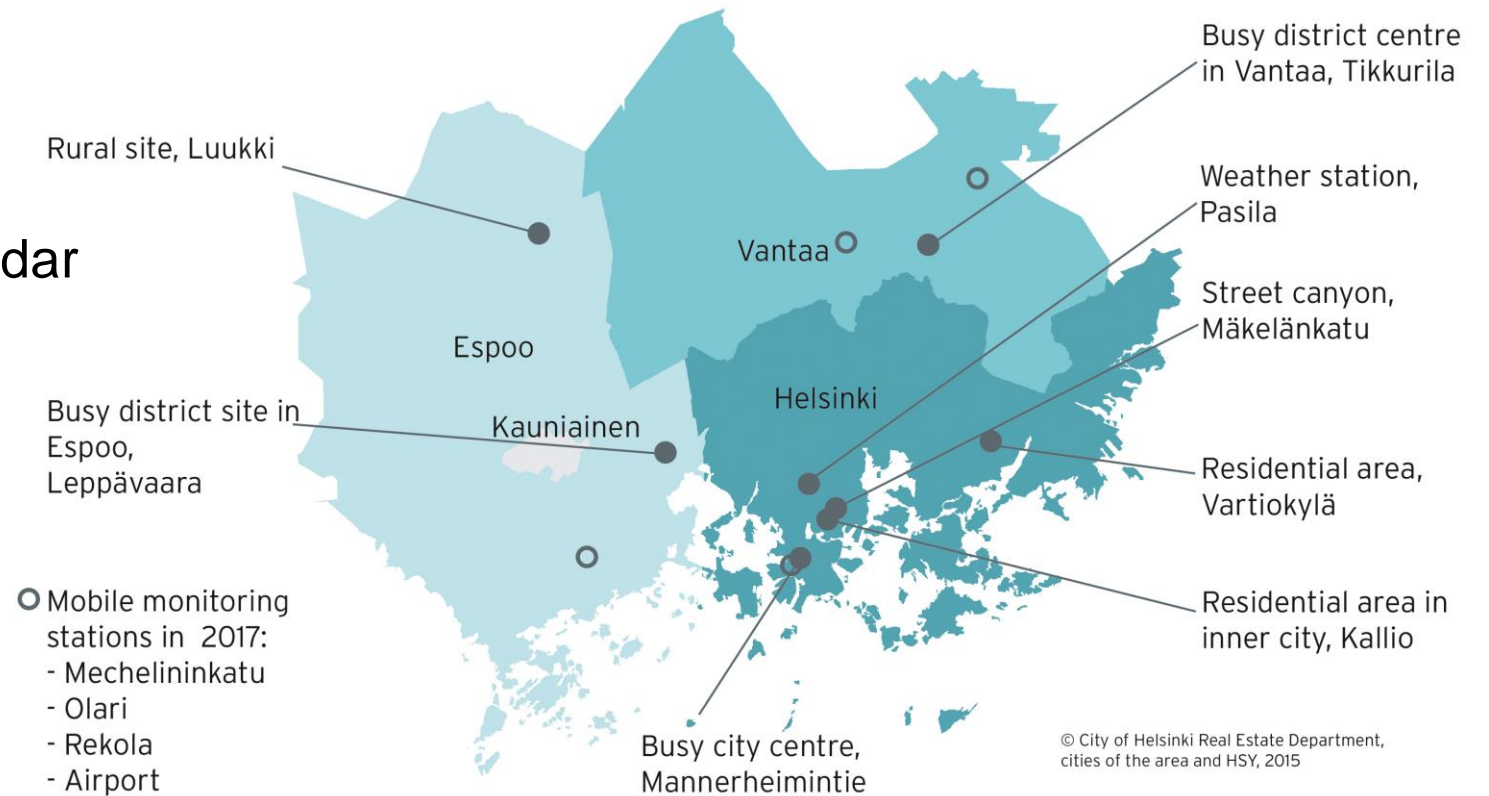
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How we monitor air quality

HSY's air quality monitoring stations are located at:

- 11 monitoring stations
 - 7 permanent
 - 4 mobile (relocated every calendar year)
- Hourly real time data



The permanent monitoring stations



Mobile monitoring stations in 2017



Mechelininkatu



Olari



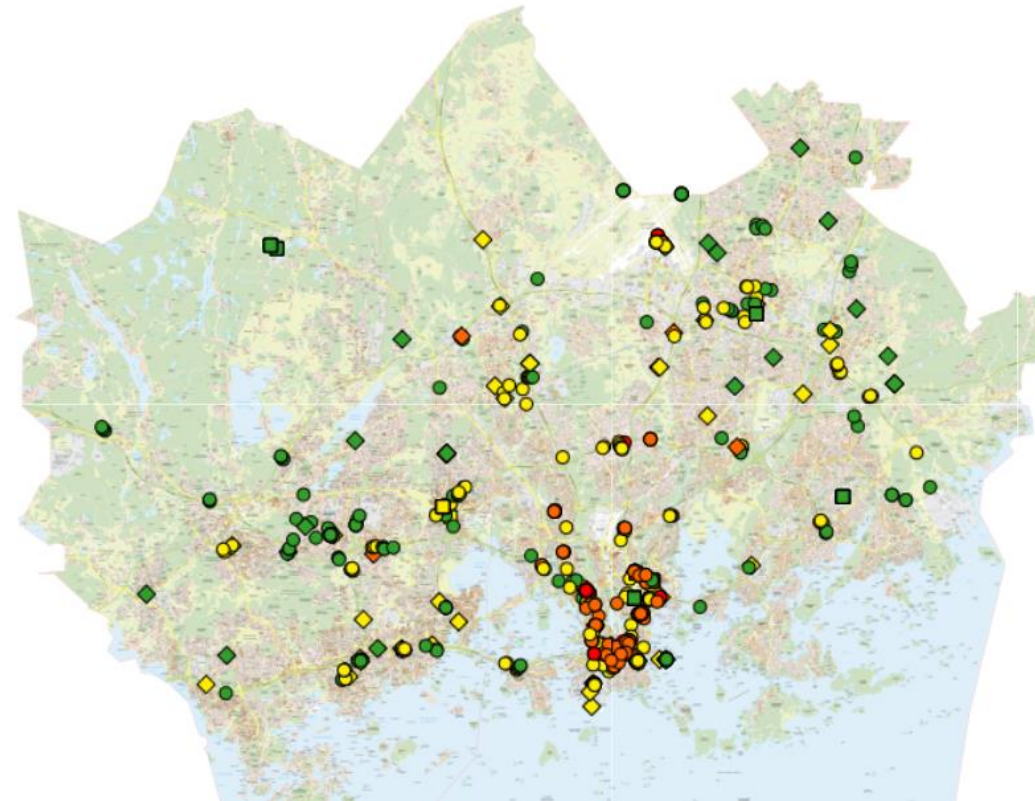
Airport



Rekola

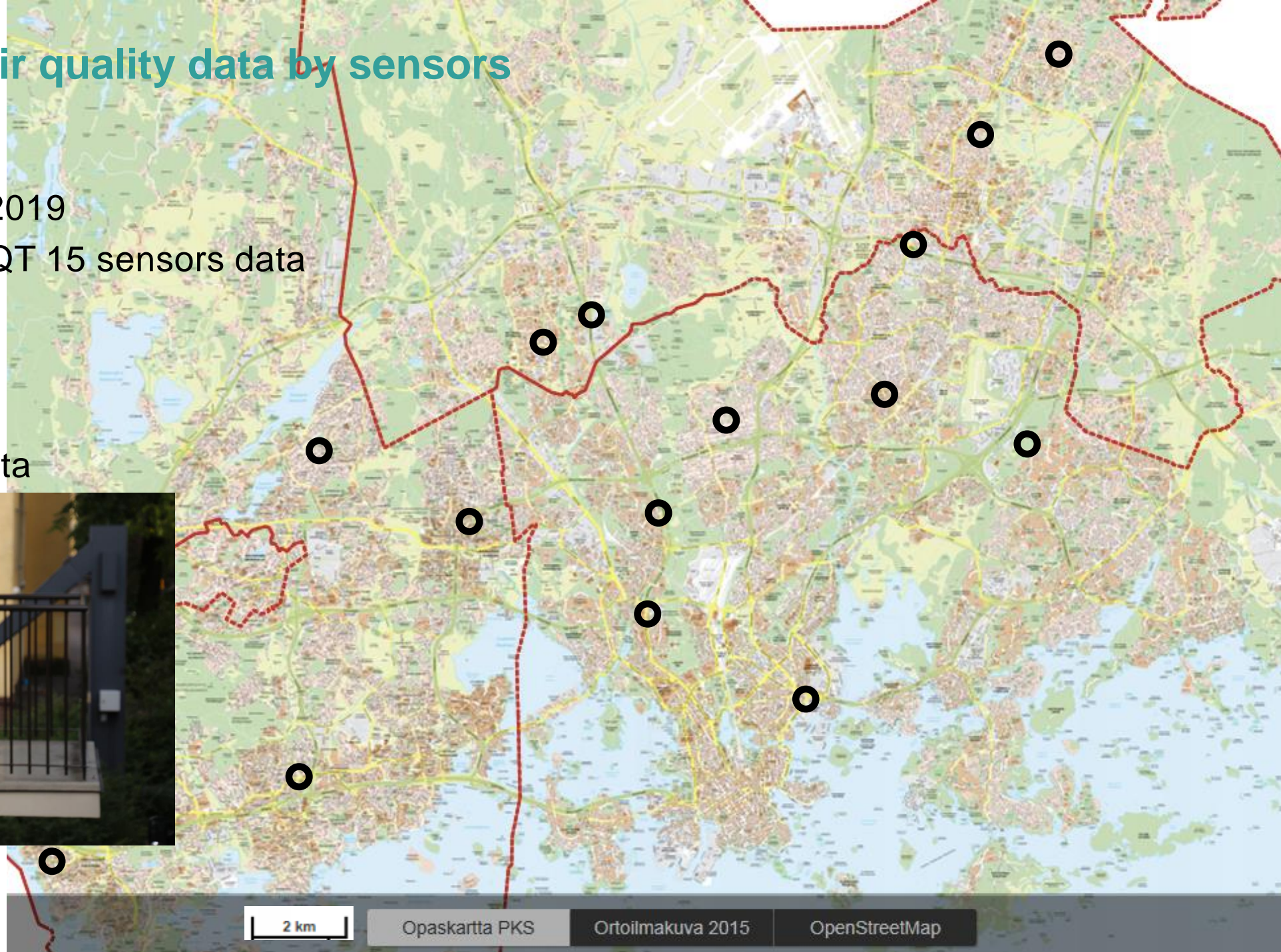
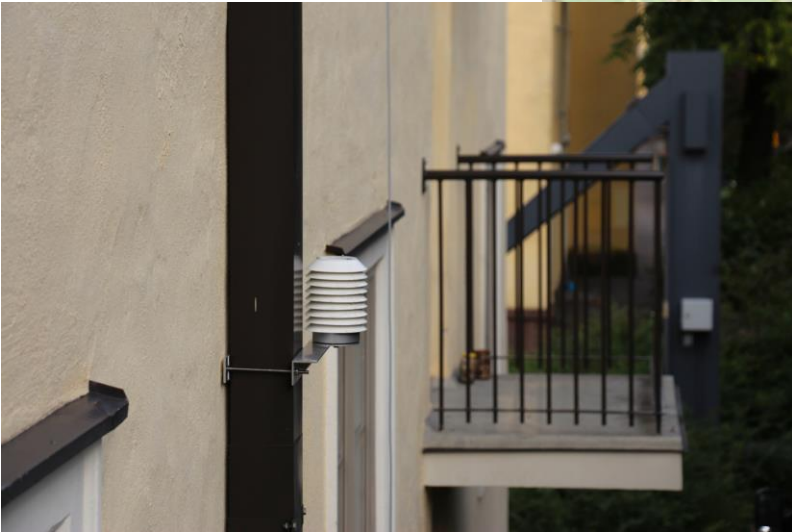
Monitoring NO₂ concentrations with passive samplers

- About 40-50 samplers per year around Helsinki Region
- Small
- Low cost
- No electricity
- Not real time data, monthly mean, annual mean
- Very reliable annual mean



Supplementary air quality data by sensors

- HAQT project
- Data 2018 – April 2019
- Aim is to open HAQT 15 sensors data
- Small
- Needs electricity
- Hourly real time data





Where can you find Air Quality data

Open data in format required by INSPIRE directive

- All HSY's monitoring stations
- INSPIRE directive
- Hourly average

Ilmatieteen laitos

MOBIILISÄÄ IN ENGLISH PÅ SVENSKA Google Täsmähaku Haku

Sää ja meri Ilmasto Palvelut ja tuotteet Teematietoa Tutkimustoiminta Ilmatieteen laitos

Ilmatieteen laitos Avoin data

Ilmatieteen laitoksen avoin data ja lähdekoodi

Suurin osa Ilmatieteen laitoksen tietoaaineistoista on saatavilla maksutta. Tietoaaineistot on avattu koneluettavassa, digitaalisessa muodossa. Myös laitoksessa tuotettujen lähdekoodien avaaminen on aloitettu vuonna 2016.

Ilmatieteen laitoksen avoimen datan verkkopalvelun kautta voi hakea, katsella ja ladata laitoksen tuottamia tietoaaineistoja koneluettavassa muodossa maksutta. Verkkopalvelun tekninen toteutus noudattaa Inspire-direktiivin vaatimusmääritelmiä.

Kirjaudu omiin tietoihin

Sähköpostiosoite *

Salasana *

[Kirjaudu](#)

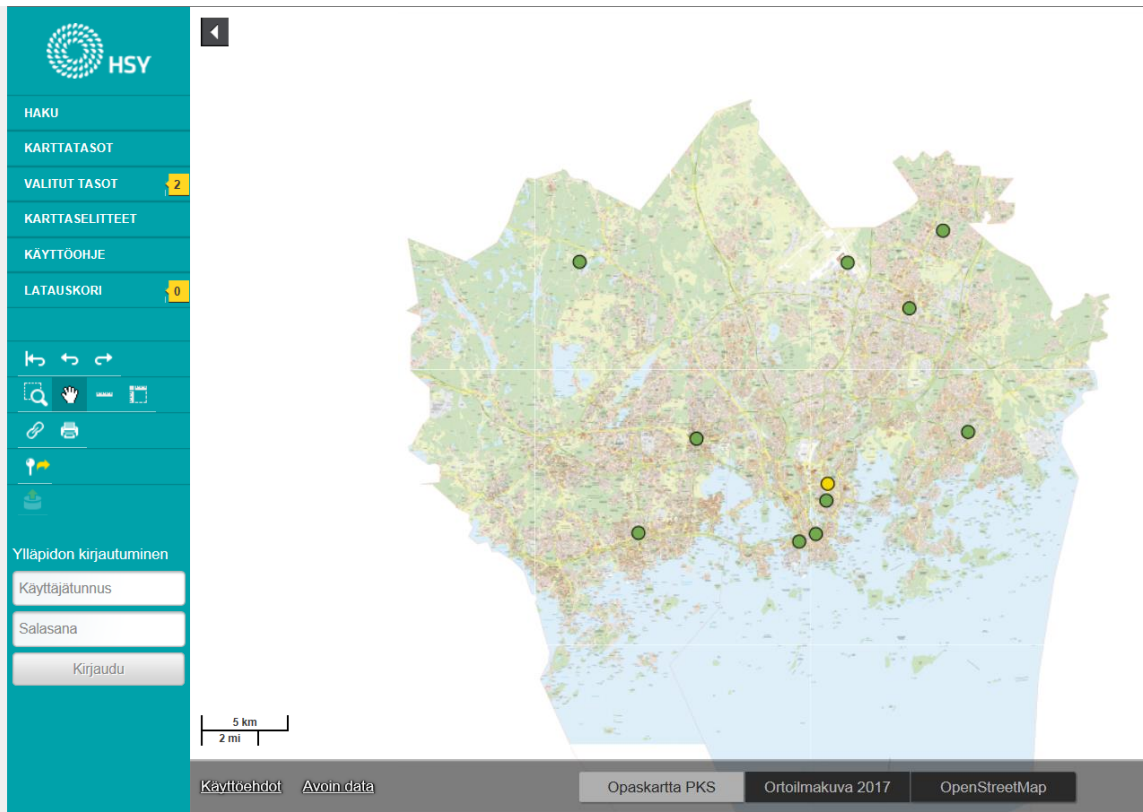
[Unohditko salasanasasi?](#)

<https://ilmatieteenlaitos.fi/avoin-data>

Open data in <http://kartta.hsy.fi/>

Real time air quality index

- Air Quality now (updating hourly)



Historic nitrogen dioxide (NO2) data

- NO2 annual average from all monitoring stations and passive sampling (updating once in a year)
- Area where NO2 (nitrogen dioxide) annual limit value is estimated to have been exceeded (updating once in a year)

Data via open API's

- We share data also via open APIs - [wms](#) and [wfs](#)
- You can use and download our air quality data:
WMS: <https://kartta.hsy.fi/geoserver/wms/ilmanlaatu>
WFS: <https://kartta.hsy.fi/geoserver/wfs/ilmanlaatu>
- More information: avoindata@hsy.fi

<https://www.hsy.fi/fi/asiantuntijalle/avoindata/karttapalvelu/Sivut/Rajapintojen-kayttaminen.aspx>

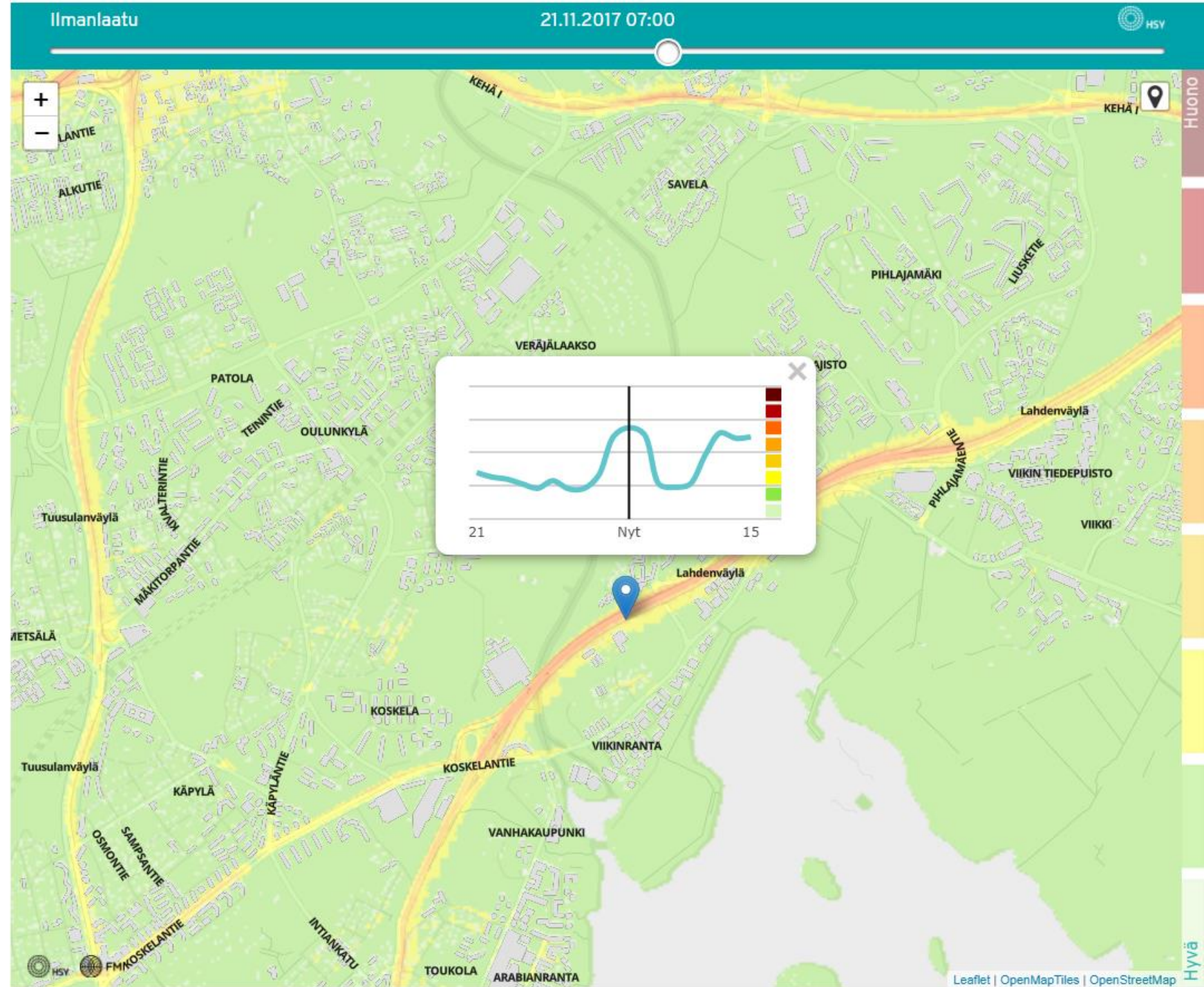
Statistical air quality data

www.hsy.fi/avoindata

- available in excel format
- Air Quality index from all monitoring stations (excel, updating every third month)
 - What is an air quality index? <https://www.hsy.fi/en/residents/theairyoubreathe/check-air-quality/Pages/default.aspx>
- Statistical data: concentrations, monthly average, annual average, trends and other analysed data from last and all the previous years. (New data in March-June 2018)

Real time Air Quality Map

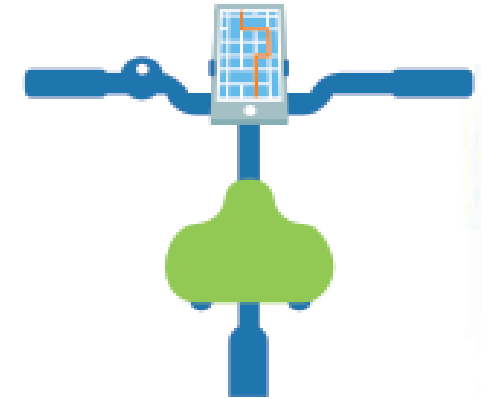
- Coming in 2018 to HSY's website
- Real time Air Quality and 8 hour forward and 8 hour backwards
- Updating hourly
- Open data? Maybe later...





Some ideas to utilise open air quality data

- Exposure to pollutants along different cycling or pedestrian routes



Joukkoliikenteen ja pyöräilyn
sujuvimmat reitit löydät
REITTIOPAS.FI -PALVELUSTA.

- Combining air quality data to ventilation systems in buildings



- Warning of poor air quality to asthmatics and other sensitive people



- Street dust map for city street maintenance to help with street cleaning or dust binding



Puhtaasti parempaa arkea | En rent bättre vardag | Purely better, every day

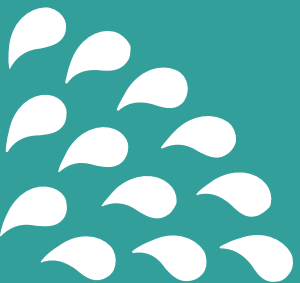
Check more information about air quality from our website

www.hsy.fi/ilmanlaatu

and

www.hsy.fi/ilmansuojelu

Thank you!



Helsingin seudun ympäristöpalvelut -kuntayhtymä
Samkommunen Helsingforsregionens miljötjänster
Helsinki Region Environmental Services Authority