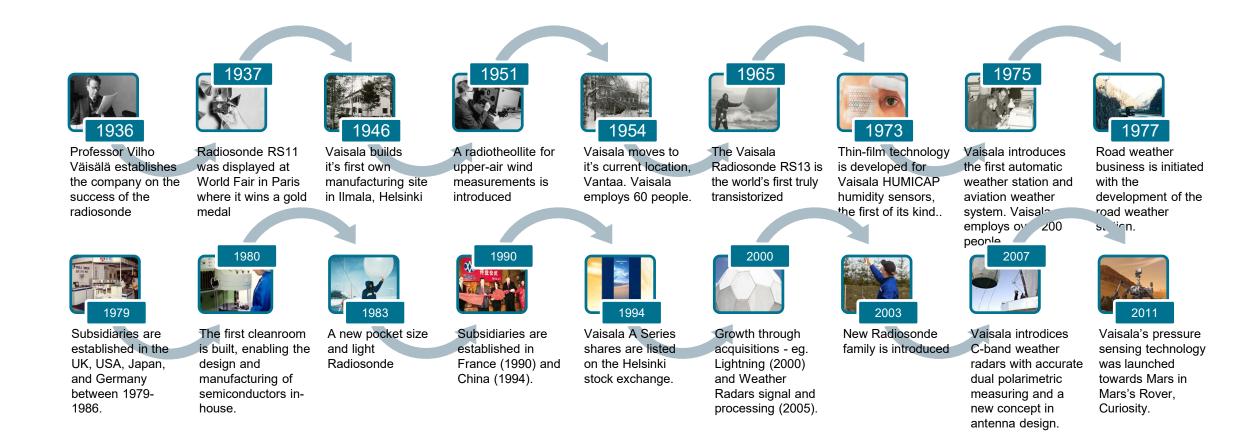
Air quality monitoring reinvented

A low cost air quality monitoring network solution from Vaisala



Vaisala - 80 years of environmental observations





Vaisala offering range



Information Services

Transforming weather data into decision information

Weather Information for Critical Operations Decision Support for Transportation Renewable Energy Decision Services Expert Consultation

Weather Systems

Capturing past, present, and future environmental conditions

Automated Surface Weather Observing Systems Automatic Weather Stations Observation Network Management Data Quality Control

Soundings

Assessing the state of the atmosphere from the ground up

Radiosondes Dropsondes Autosondes Ground Stations



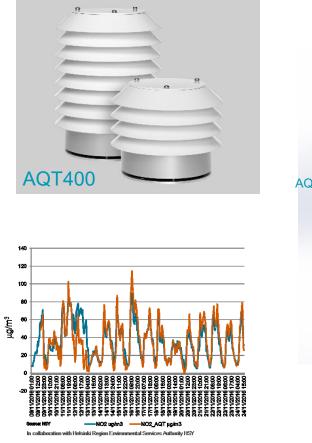
Vaisala air quality instruments

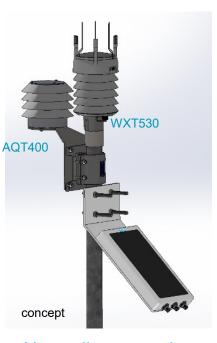
Easy to deploy in quantities

- Compact
- Fully wireless, solar powered
- Low maintenance
 - Annual to biannual interval
 - Easy to do locally

Near reference performance

- Measures all key urban pollutants
- Verified performance





Air quality + weather



Supplementary air quality networks

Conventional network

Supplementary dense network

Weather + air quality

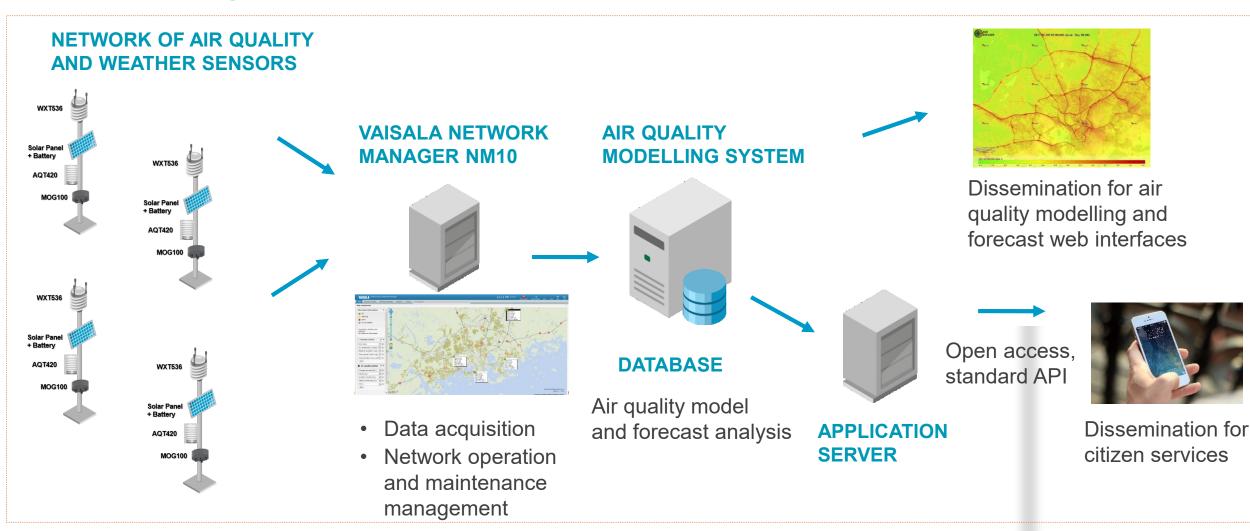


- Air quality measurements typically made with fixed ground-based monitoring stations, which cost several 100 k€
- These stations can only represent a very local area

- The AQT410/420 concept enables dense but cost efficient measurement networks
- Improving air quality monitoring improves also air quality modelling and forecasting
- Weather effects the air quality and air quality affects the weather.
- AQT transmitters can be connected with WXT to get a more complete picture
- This improves air quality forecasting

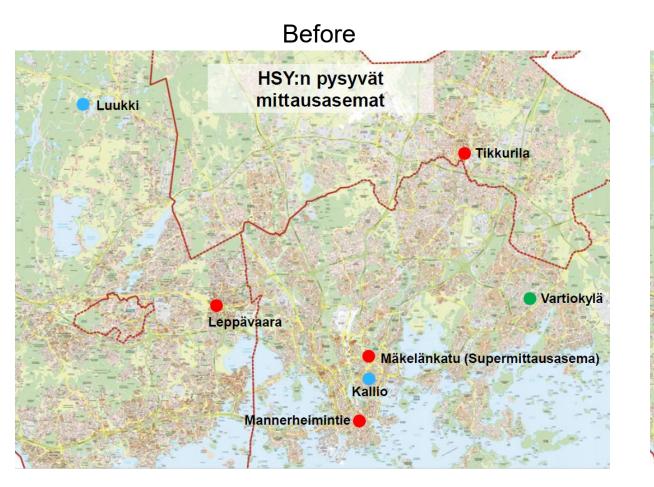


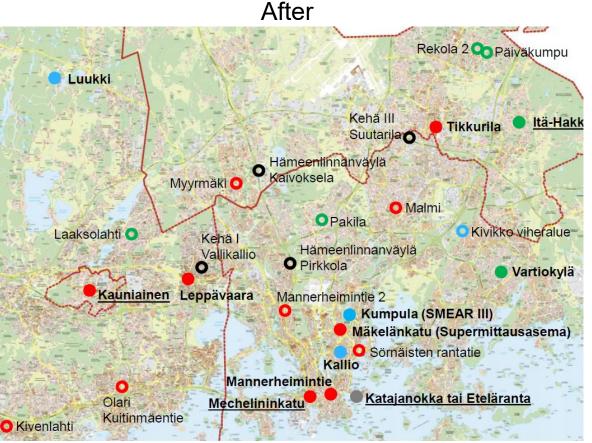
Air Quality total solution





Helsinki Metropolitan Air Quality testbed





Preliminary planning courtesy Jarkko Niemi Helsinki Region Environmental Services Authority

