

An aerial, high-angle photograph of a dense urban area, likely Helsinki, showing a complex network of streets and buildings. The rooftops are visible in various colors, including blue, red, orange, and green, suggesting different materials or vegetation. The overall scene is a vibrant, textured mosaic of urban development.

FORUM VIRIUM HELSINKI



UIA HOPE

UIA HOPE Become a data source for data-driven air quality interventions

Date: 7.3

Place: Kalasatama (REDI) Urban Lab

PM Eero Jalo

What is UIA HOPE?

What is (UIA) Urban Innovative Actions?

- Urban Innovative Actions (UIA) is an Initiative of the European Union that provides resources to test new and unproven solutions to address urban challenges.

HOPE - Healthy Outdoor Premises for Everyone

<https://www.uia-initiative.eu/en/uia-cities/helsinki>

<https://youtu.be/kNy8XgczuS0>



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UIA HOPE

Challenge

Lack of the real-time and reliable high resolution of air quality data in order to find the targeted interventions and specific pollution concentrations.

Solution proposed

The proposed solution is creating a feedback loop between high-resolution hyperlocal air quality data and actions of individuals and communities through co-design and participatory budgeting.

Expected results

Main result of the project is the development and validation of HOPE model for empowerment of the residents to understand and influence air quality, which leads to improvement of quality of life.

UIA HOPE

Partnership (7)

- City of Helsinki;
- University of Helsinki - higher education and research institute
- Vaisala Plc - private enterprise
- Helsinki Region Environmental Services Authority - regional public authority
- Finnish Meteorological Institute - national public authority
- Useless Company Ltd - SME
- Forum Virium Helsinki - innovation center

UIA HOPE Main milestones

August 2019: site planning is done. Site planning includes the physical sensor location and network environment planning and utilising this the sensors will be placed in optimal locations.

December 2019: sensors placed in optimal measurement points. Based on the previously implemented site planning the actual sensors are placed in the locations.

December 2019: interventions catalogued. Utilising the expert participation we have catalogued the air quality interventions to be used in the project.

April 2020: first intervention selected and implemented. Based on the catalogue of interventions first participatory interventions are selected and in use.

February 2021: first version of Lifespan models done. Based on the data gathered during the project a life span model is created and later validated in the project.

November 2021: AQ 2.0 Index developed. Based on everything we have gathered during HOPE project implementation, the finalised AQ index 2.0 is created.

FVH Activities in UIA HOPE

2019 - 2021

- User recruitment campaign
- Coaching sessions/workshops
- Workshops for joint planning of innovation competition
- Innovation competition for new solutions
- New solutions in district
- Executing participatory budgeting process
- Workshops for citizens
- Workshops for joint evaluation of the intervention
- User workshops for profile validation
- Three public events for citizens

- <https://youtu.be/kNy8XgczuS0>