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FORUM VIRIUM HELSINKI



Photo: Fiksu Kalasatama project

Final publication: Fiksu Kalasatama project

Kalasatama became a world-renowned district of agile experiments - the final publication of the Fiksu Kalasatama project summarizes the results of a long work. The project turned experiments into a well-established way of developing the city, and its lessons are now widely used in Helsinki. The final publication summarizes what Helsinki's prestigious smart city district is like and how it has been developed.

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Image: FABULOS project

The FABULOS robot bus tests were successful

The FABULOS project has successfully tested three different robot bus solutions in Finland, Norway, Estonia, Greece and the Netherlands. The goal of the EU-funded FABULOS project was to gain experience in self-driving public transport by testing autonomous bus service solutions in real conditions. In Finland, robot buses were tested in the spring and summer of 2020 in the busy Pasila.

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Image: AiRMOUR project

Drones are being tested to support first aid

Electric drones will be tested for the transport of both emergency personnel and treatment equipment and supplies in cooperation with the Helsinki University Hospital in spring 2023. The experiments are related to the AiRMOUR project, which promotes innovations in air transport, in which new methods of transportation for the needs of emergency care are being sought.

From Finland, in addition to Forum Virium Helsinki, HUS, Technology Research Center VTT, drone technology expert company Robots Experts Finland are involved in the project.

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Photo: AI4Cities project

41 companies continue in the AI tender

AI4Cities, a joint project of six European cities, is looking for new artificial intelligence solutions to reduce climate emissions from traffic and energy consumption. A total of 97 bids were received in the first phase of the project's bidding, of which 41 will proceed to design. Last December, AI4Cities opened a tender for companies for new artificial intelligence solutions. The themes of the tender are energy consumption and movement.

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Photo: Forum Virium Helsinki

The new street sweeping robot Trombia in the test

How could the streets of residential areas be cleaned with as little disruption to the residents' everyday life as possible and without emissions? Trombia Technologies and Stara of the City of Helsinki and Forum Virium Helsinki tested this in April with a new street sweeping robot. Trombia Free is developed in Finland, the world's first full-power, electric and autonomous sweeping machine.

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Photo: City of Helsinki

The swimming water of 15 beaches can be viewed online

The extremely popular uiras.fvh.io serves the capital city's swimmers this summer as well. The page showing the swimming water temperatures in real time has been visited almost 10,000 times in the last month alone. Now the maintenance of the sensors is being taken over by environmental researchers from Helsinki's urban environment department. Earlier this year, the real-time temperature of the water at the swimming beaches was chosen as [the best data opening of 2020 by the HRI service.](#)

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Photo: Forum Virium Helsinki

Urbanite: a transport ecosystem model

In order to develop a transport ecosystem model, URBANITE maps the needs and expectations of authorities, citizens and other transport operators and tries to identify their attitudes towards new technologies. As a counterweight to this, the project investigates the traffic planners' trust in new types of solutions in relation to the introduction of technological solutions.

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Photo: City of Helsinki

A green city with residents

In the Healthy Liveable Neighborhoods trial call, innovative solutions supporting green infrastructure and the urban food landscape were sought. The rapid experiments are part of the [Nordic Smart City Network](#) 's [Nordic Healthy Cities](#) project, which is financed by Nordic Innovation. Forum Virium Helsinki coordinates experiments, and the partner cities involved are Vantaa, Stavanger, Kristiansand and Copenhagen.

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Photo: Forum Virium Helsinki

A condominium strategy increases the value of the house

The housing company strategies made in the two pilot housing companies of the Climate-wise housing companies project give direction to the long-term development of the houses. So far, only a few apartment buildings have prepared for themselves a strategy approved by the general meeting as a road map for the board and the property manager. One of the pioneers is [As Oy Lokkisaarentie](#), which prepared a housing strategy for itself under the guidance of the consulting company Sweco. The housing association strategy was drawn up together with the energy report ordered by the housing association.

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Photo: Forum Virium Helsinki

Archipelago tourism developed with digital solutions

In the Urban Eco Islands project, Helsinki's Vasikkasaari and Tallinn's Aegna island were elevated to new types of smart nature tourism destinations. The project improved the sustainable recreational use of both Vasikkasaari and Aegna island with new camping structures and by improving the signs on the islands, both on the islands themselves and in the form of digital guides. The project was financed by Interreg Central Baltic and its partners were the Stockholm Environment Institute, the City of Tallinn, the City of Helsinki and Forum Virium Helsinki.

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Photo: Forum Virium Helsinki

TerrainSense measures the condition of the road surface

TerrainSense from Helsinki has developed a method that can be used to measure the condition of the road surface with sensors attached to bicycles. The sensor detects unevenness on the road surface and draws condition information on the bike lanes on the map of the mobile application. The information is provided to the experts responsible for the design and maintenance of bike lanes in a map interface, where the measurement results can be analyzed with various built-in tools.

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Photo: Forum Virium Helsinki

Urban greenery is of interest to residents

Consolidating cities are looking for ways to increase urban greenery, and the corona pandemic has raised the appreciation of urban nature to a record high. According to a recent survey, the residents of Kalasatama and its surrounding areas also welcome a new type of green infrastructure in the urban environment. According to the resident survey carried out in the B.Green project coordinated by the innovation company of the City of Helsinki, Forum Virium Helsinki, green areas are important to the majority of respondents.

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Photo: SmashHit project

Innovation concept from the SmashHit project

The Innovation concept report has been published in the SmashHit project. The report presents how the SmashHit project aims to meet the challenges in the consent and agreement processes related to the use of data in an innovative and secure way. The goal is that with the help of SmashHit's innovation concept, the development and utilization of data-based services is safer and smoother for all parties involved. The report is in English.

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Photo: Forum Virium Helsinki

New employee: Lauri Gates

Platform and cloud services expert Lauri Gates started working at Forum Virium in April. Together with the administration team and other experts, Lauri develops the definition, administration and user support of various cloud services and platforms. Welcome to work, Lauri!

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Upcoming events

- [CONNECT University Summer School 2021 | Digital for our Planet](#)
- [MySmartLife webinar ICT Solutions 24 June 2021](#)

Forum in Virium media

- Helsingin Sanomat 19.6.
[You can get around the islands of Helsinki this summer with a shared electric boat – Reminds of the ride service that disappeared six years ago](#)

- Helsingin Sanomat 7.6.
[The temperatures of Helsinki's swimming waters can be found in the new online service almost in real time](#)
- Helsingin Sanomat 11.5.
[In the spring of 2023, drones will be tested in Helsinki to support first aid](#)
- Politico 5.5.
[POLITICO AI: Decoded: Robot law — Helsinki wants to be Europe's smartest](#)
- Hufvudstadsbladet 19.4.
[Nattrobot sopar gatorna på Busholmen](#)
- Helsingin Sanomat 19.4.
[A robot that moves loudly sweeps the streets in southern Helsinki at night](#)
- Helsinki News 16.4.
[The Tallinn and Helsinki archipelagos are an excellent local tourist destination - New online guide promotes sustainable recreational use of nature sites](#)



We develop urban solutions of the future

Forum Virium Helsinki is the innovation company of the city of Helsinki. We are making Helsinki the most functional smart city in the world in cooperation with companies, the scientific community and the citizens of the city.



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