



Digital

Digital Transformation Driven by Cities

Case: Smart Helsinki Region

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EIT?



European Institute of Innovation and Technology (EIT)



What is the EIT?

The European Institute of Innovation and Technology (EIT) drives innovation in Europe by supporting entrepreneurs, innovators and students across Europe to turn their best ideas into reality.

How does the EIT work?



Trains a new generation of entrepreneurs

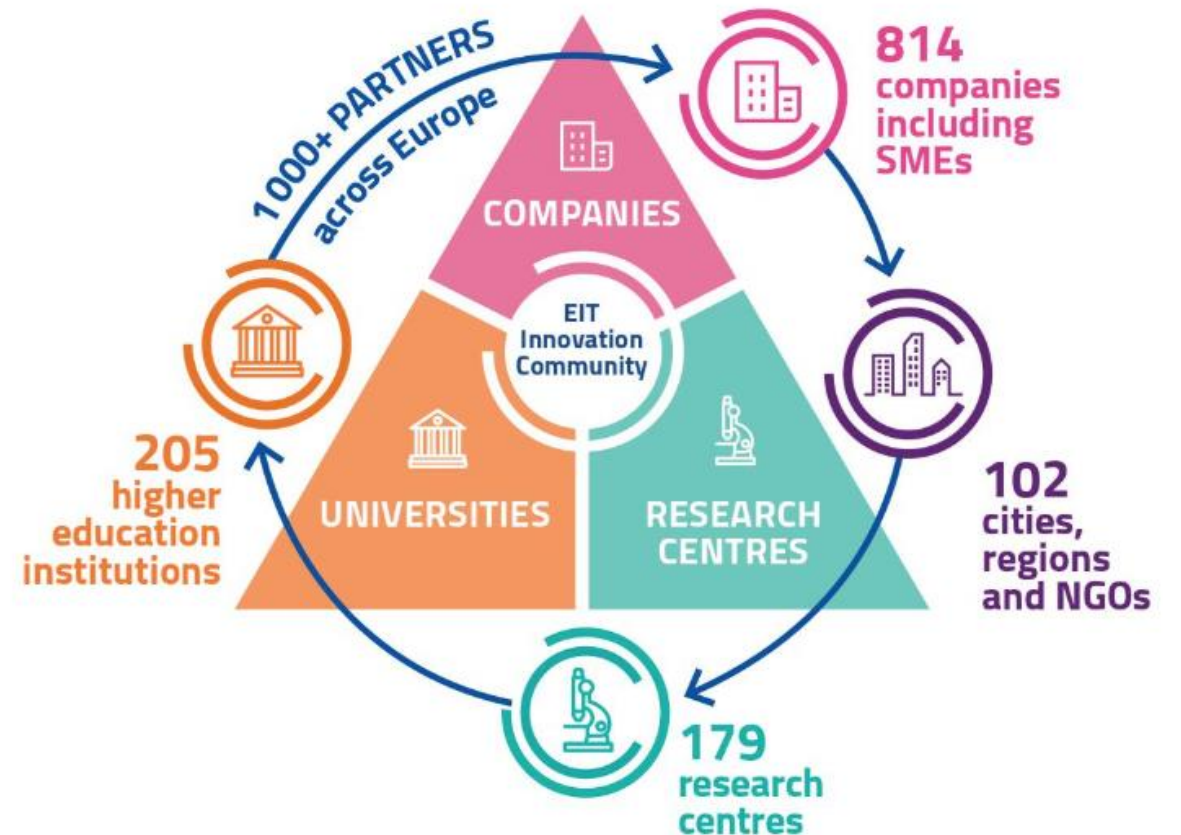


Develops innovative products and services



Supports start-ups & scale-ups

Europe's largest innovation community



The EIT's
Innovation
Communities
create
and find
innovative
solutions
to major
societal
challenges



EIT Climate-KIC

Working to accelerate
the transition to a
zero-carbon economy



EIT Digital

Driving Europe's digital
transformation



EIT Food

Leading a global
revolution in food
innovation and
production



EIT RawMaterials

Developing raw
materials into a major
strength for Europe



EIT InnoEnergy

Achieving a sustainable
energy future for Europe



EIT Health

Giving EU citizens
greater opportunities to
enjoy a healthy life

The EIT is growing!



EIT Manufacturing

Strengthening and increasing
the competitiveness of Europe's
manufacturing industry



EIT Urban Mobility

Smart, green and
integrated transport

EIT Digital Cities

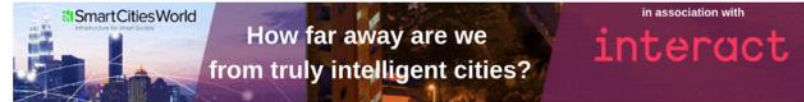


- Main domains:
 - **Safety** for citizens and workers
 - **Urban mobility**: people, goods
 - **City Analytics**
- With a common backbone related to **information management** systems turning raw data into **knowledge** used to drive **decisions** taken by **human, machines and robots**



SMART HELSINKI REGION





Espoo named most intelligent community

News 07 Jun 2018 by SmartCitiesWorld news team

The city's "holistic philosophy" of humanising every aspect of its technology and teaching innovation as a way of life impressed the think-tank



Espoo: first Scandinavian country to claim top spot since 2009. Photograph: Ilpo Musto

The city of Espoo in Finland has been named the 2018 Intelligent Community of the Year by the Intelligent Community Forum (ICF) at its global summit in London.

Helsinki

The most functional city in the world
through design, digitality and dialogue

FORUM
VIRIUM
HELSINKI

Helsinki

Re-designing the Role of the City

From narrow innovation policies to comprehensive and open innovation policies



HELSINKI - City as a platform



SMART MOBILITY



What it would take for cities to eliminate the need to own a car

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Series: Cities in motion

Helsinki's ambitious plan to make car ownership pointless in 10 years

Finland's capital hopes a 'mobility on demand' system that integrates all forms of shared and public transport in a single payment network could essentially render private cars obsolete

• Should we ban cars in city centres?

Adam Greenfield
theguardian.com, Thursday 10 July 2014 15:20 BST
Jump to comments (176)



Urban mobility, rethought ... Helsinki, Finland. Photograph: H
The Finnish capital has announced plans to transform its transport network into a comprehensive, point-to-point 'mobility on demand' system by 2025 – one that, in theory, would have any reason to own a car.

TIME

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MAGAZINE

VIDEOS

Finland's Capital Plans on Making Private-Car Ownership Obsolete in 10 Years



George W. Bush Doesn't Think ALS Ice Bucket Challenge is Presidential, Gaffe Was Answer



See Rick Perry's Mugshot

SCIENCE ENVIRONMENT

Finland's Capital Plans on Making Private-Car Ownership Obsolete in 10 Years

Melissa Hellmann | July 11, 2014

Are you paying attention, rest of world?

Finland's capital, Helsinki, plans on **revamping** its entire transportation system by linking together several nodes of shared transportation to potentially



MAAS 'MOBILITY AS A SERVICE'

FREEDOM TO CHOOSE FROM ALL AVAILABLE TRANSPORT OPTIONS ALWAYS THE ONE THAT BEST FIT YOUR NEEDS AT THAT TIME

TRANSPORTATION

Millennials Want Apps, Not Cars



The Economist

Topics

Current edition

More

THE VERGE

TRENDING NOW

BUSINESS INSIDER

Tech

A 24-Year-Old Transit

ROB WILE
AUG. 4, 2014, 7:32 AM
96,810

By now it's become clear that Scandinavians and Nordic nations do a lot of things better than other countries. They have the smallest gender gaps, among the highest test scores, and the lowest levels

Finland's largest city wants to replace cars with apps

New system would integrate all the city's public transit and rideshares into one app

By Carl Franzen





EIT Digital: Last Mile Autonomous Delivery

Consumers



- transparent and customized delivery experience
- faster and more reliable deliveries in a novel way

Retailers & Logistics



- savings on last-mile deliveries of up to 40%

Cities

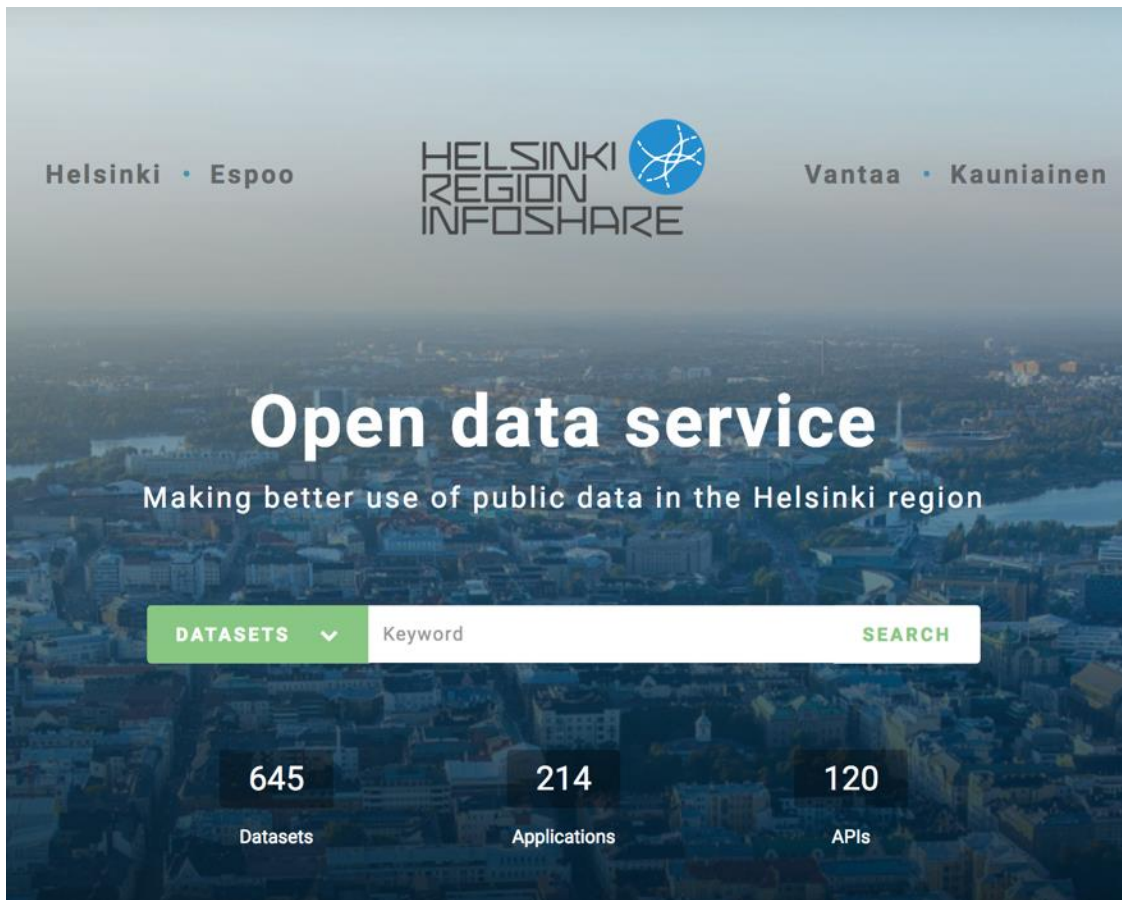


- less congestion and pollution, resulting in more livable environment for citizens



LEADING THE DATA-DRIVEN TRANSFORMATION



A banner for the Helsinki Region Infoshare Open data service. The background is a cityscape of Helsinki. At the top, it lists 'Helsinki • Espoo' and 'Vantaa • Kauniainen'. The central text reads 'Open data service' and 'Making better use of public data in the Helsinki region'. Below this is a search bar with a 'DATASETS' dropdown and a 'SEARCH' button. At the bottom, three statistics are shown: 645 Datasets, 214 Applications, and 120 APIs.

Helsinki • Espoo

HELSENKI
REGION
INFOSHARE

Vantaa • Kauniainen

Open data service

Making better use of public data in the Helsinki region

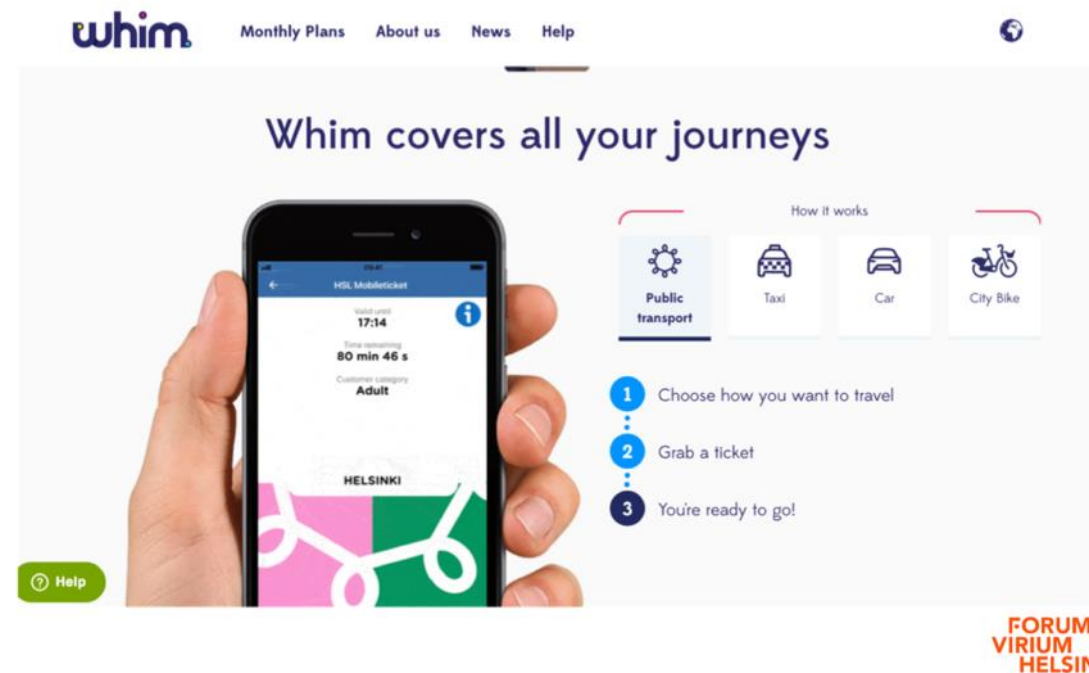
DATASETS ▼ Keyword SEARCH

645 Datasets

214 Applications

120 APIs

Open data fueling Mobility as a Service (MaaS)

A screenshot of the Whim MaaS app interface. The header shows the 'whim' logo and navigation links: 'Monthly Plans', 'About us', 'News', and 'Help'. The main heading is 'Whim covers all your journeys'. Below this, a hand holds a smartphone displaying a ticket for 'HSL Mobiliticket' with details like 'Valid until 17:14', 'Time remaining 80 min 46 s', and 'Customer category Adult'. To the right, a section titled 'How it works' shows icons for 'Public transport', 'Taxi', 'Car', and 'City Bike'. A three-step process is listed: 1. Choose how you want to travel, 2. Grab a ticket, 3. You're ready to go!. A 'Help' button is at the bottom left. The bottom right corner features the 'FORUM VIRIUM HELSINKI' logo.

whim Monthly Plans About us News Help

Whim covers all your journeys

How it works

Public transport Taxi Car City Bike

- 1 Choose how you want to travel
- 2 Grab a ticket
- 3 You're ready to go!

Help

FORUM VIRIUM HELSINKI

Harmonised APIs across cities



Open API recommendations for cities

By the six largest cities in Finland

Version 1.1
30.11.2016

6Aika



117 member cities from 24 countries
oascities.org

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Human-centric data economy: MyData



- **Human Centric:** right to data, individual in control, privacy
- **Usability of Data:** machine readable, open formats, APIs, standards
- **Open Business Environment:** interoperability, moving data between services

SELECT
for Cities

**Design and develop a city-wide, data-driven,
Internet-of-Everything (IoE) platform for large-scale
co-creation, and testing of services**



As an “Ecosystem” platform, Digital Enabler enables new data economy business models, fostering innovation & enhancing current capabilities.

It allows you to Harmonize, Synchronize, Integrate, Visualise, Mashup, Federate, Analyze data to power your digital transformation & provides a single point of (data) knowledge that can be used to develop new value added services as well as digitally enabling older technologies and applications.

Digital Enabler should be used wherever data needs to be enriched.

Connected Street Lighting:
A smart city starting point



in association with
interact

Helsinki and Tallinn progress cross-border smart city solutions

05 Apr 2019

A Teaming Grant of €32 million will enable TalTech and Aalto Universities to build a global centre of excellence to advance a joint smart city environment.



The Urban Platform – especially open data and open APIs – of Helsinki has been a critical enabling factor for the local research and innovation organisations and has contributed to and developed Smart Helsinki as one of the leading smart cities in the world.

The Center of Excellence will develop a compatible Urban Open Platform for Tallinn and merge the two platforms into an interoperable Cross-Border Urban Open Platform (UOP) that allows for the sharing of open data, APIs and both cities smart infrastructure and related platforms.

Via the CoE UOP.Lab, Estonian researchers, start-ups and industries to collaborate with the Finnish counterparts (and vice-versa) to develop their solutions in a state-of-the-art smart city environment.





Thank you!