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
- 1000+ partners across Europe
- 814 companies including SMEs
- 102 cities, regions and NGOs
- 205 higher education institutions
- 179 research centres
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

EIT Manufacturing
Strengthening and increasing the competitiveness of Europe’s manufacturing industry

EIT Urban Mobility
Smart, green and integrated transport

The EIT is growing!

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

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
Re-designing the Role of the City

From narrow innovation policies to comprehensive and open innovation policies
HELSPINKI - City as a platform

Over 300 city driven testbeds and forerunner projects since 2013

Schools

ICT

Energy

Over 300 city driven testbeds and forerunner projects since 2013

Healthcare

Roads and mobility

Water and waste
SMART MOBILITY
'MOBILITY AS A SERVICE'

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

Finland's largest city wants to replace cars with apps. The Finnish capital has announced plans to transform transport into a comprehensive, point-to-point 'mobility on demand' system that integrates all forms of shared and public transport, including ridesharing, a network that could essentially render private cars obsolete.

Would you ban cars in city centres?
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
Open data service
Making better use of public data in the Helsinki region

645 214 120
Datasets Applications APIs

Open data fueling Mobility as a Service (MaaS)

Whim covers all your journeys

1. Choose how you want to travel
2. Grab a ticket
3. You’re ready to go!
Harmonised APIs across cities

Open API recommendations for cities

117 member cities from 24 countries

oascities.org
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
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.
Helsinki and Tallinn progress cross-border smart city solutions

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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!