

Miikka Venäläinen Manager, Business Development



City of Lahti



https://www.ess.fi/ paikalliset/24405 1963





Three game changers at play...

- LUT expanding rapidly
- Business City
- Global leader in sustainability

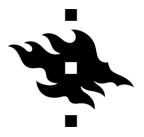








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HELSINGIN YLIOPISTO
HELSINGFORS UNIVERSITET
UNIVERSITY OF HELSINKI



Rapid growth

- LUT University
 - 10 000 students by 2030
 - 30 professors situated in Lahti
 - New ones on the pipeline...
 - International university
 - 1/3 of students are international
- LAB University of Applied Sciences
 - Strong playr in the field
 - 5 800 students in Lahti
- University of Helsinki
 - Growth?









Lahti



Lahti

Viking Malt



Carbon neutral in a few years

- Investments
 - Ren-Gas
 - Hartwall
- Research
 - LUT/Lahti GEM
- Competitive edge for companies
 - The most sustainable platform for companies in Finland!





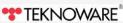


Lahti GEM network





















Single Wing Energy



//K LEM-KEM

SYSTEMS & APPLICATIONS

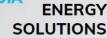
RESEARCH & EDUCATION





elenger









arakon



PUBLIC

SECTOR

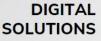




DESPRO







LOGISTICS & MOBILITY **SERVICES**









KOIVISTON AUTO -konserni







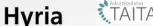




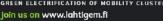


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Lahti

Events and culture...



Lahti

How can we make the tide of positive change visible through out the City?

What will Lahti look and feel like in 2040?

- Transportation
- Service industry
- Business world
- Housing and living
- Growing roots in Lahti
- Cityscape





Rethink Lahti!





Future mobility and transportation

72h Transport Challenge

Kaisa Reunanen-Krause

8.11.2023





Process of a traffic infrastructure project



- -> Planning takes time, using time is even longer
- -> Planning is always to the future needs

Finnish Transport Infrastructure



Changes due to Corona-pandemic



Lahden joukkoliikenteen matkustajamäärät yhä kaukana koronaa edeltävästä ajasta

Matkustajamäärien pudotus tekee loven myös tuloihin. Suuret kaupungit toivovat valtion koronatuelle jatkoa.



Lahden seudun liikenne bussi odottamassa torin pysäkillä torstaina. Kuva: Petri Niemi / Yle

CITIES AND URBANIZATION

COVID made many of us avoid public transport - what will it take to get us back on the bus?

Feb 4, 202

Article | Published: 19 May 2020

Temporary reduction in daily global CO₂ emissions during the COVID-19 forced confinement

Kestävillä kulkutavoilla liikkumisen osuus laski Päijät-Hämeessä

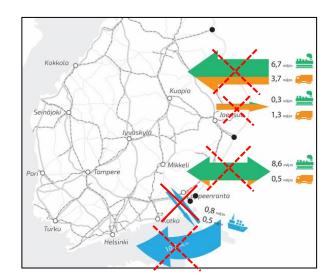
24.2.2023 | Liikennejärjestelmä, Uutinen

Traficomin vuonna 2021 teettämä valtakunnallinen henkilöliikennetutkimus osoittaa, että koronapandemia vaikutti selvästi suomalaisten tekemien matkojen määrään ja pituuteen. Maakunnan asukkaiden matkoista kolmannes tehtiin kestävillä kulkutavoilla vuonna 2021...

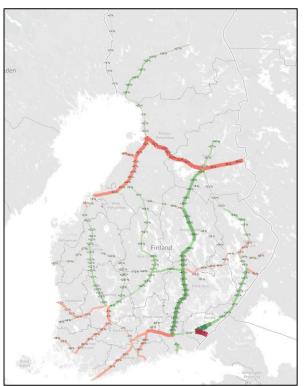
-> Decreased use of Public transportation, Distance working

Changes in freight traffic due to War of Russian aggression

- Import flows of raw materials have changed, especially in raw wood
- Relations between modes of transport have changed, routes have changed
- Changes not only in transport sector, but in industry and business life



Changes in freight traffic



Changes in freight traffic in rails



Futures research



Principles in futures research:

- **Future is not predictable.** There are multiple possible futures, which we can try to predict.
- **Future is not predetermined,** but we can discuss what could be happening.
- We can influence the future with our actions and choices, it is important to know what is possible, what is probable (credible) and what is desirable

-> Prepare for diffrent futures

- In addition to strong drivers of change, attention must be paid to weak signals and surprises, discontinuities, and disruptions
- Resilience (being able to adapt to changes) is needed
- **Best plan works in all the futures**

Tulevaisuuden muutosten hallinta väylänpidossa:

https://www.doria.fi/bitstream/handle/10024/1875 06/vi 2023-44 978-952-405-083-8.pdf?sequence=1



Environment

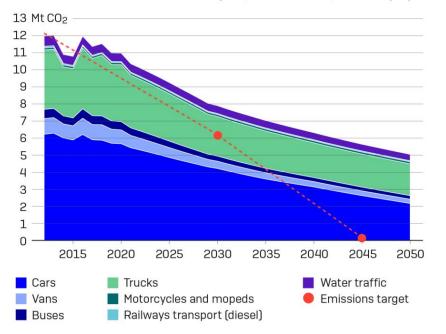


- Climate change
- Biodiversity
- Sustainability



Green bridges helps animals to cross roads safely

CO2 emissions from domestic transport, million tonnes, baseline projection



Source: Government resolution 2023

Demografics

Finnish Transport Infrastructure Agency

- Urbanization
- Population aging







Technologies and digitalization



- Electrification of vehicles and transport systems
- Autonomous vehicles

Remote opening of the bridge

- ITS (Intelligent Transportation System)
- MaaS (Mobility as a service)
- AI (Artificial intelligence)

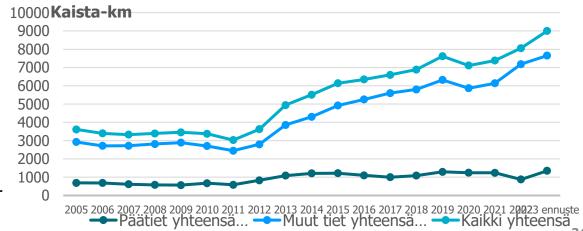


Economics





- Resource efficiency
- Optimizing and prioritizing
- Life span



Amount of road pavements in poor condition



Land use, housing and transport agreements (MAL-sopimus) (Regional level)



- Made between Lahti region (municipalities), regional council and State (ministries and agencies)
- Current plan for 2021-2031, new in process
- The plan represents a long-term approach to the development of the transport system, land use and housing
- Includes 47 measures

- Objectives of the Plan:
 - Sustainable and low-carbon urban structure and transport system
 - Versatile housing options and enough affordability housing
 - Vibrant urban area



Transport 12 plan (National level)



- The National Transport System Plan (Traffic 12) is an idea of how the Finnish transport system will be developed over the next 12 years
- The plan represents a long-term approach to the development of the transport system

- Objectives of the Plan:
 - Accessibility
 - Sustainability
 - Efficiency





Conclusions and tips

- Explore and be bold, but stay connected to reality and facts
- See things from diffrent perspectives and scenarios
- Listen to others ideas, learn and develop them
- Remember resilience and that we make futures possible!
- Relax and have fun!





Finnish Transport Infrastructure Agency

