



THE CITY OF TAMPERE



Innovative Tampere – Smart, Green and Open

Stiftung Lebendige Stadt

Conference THE INTELLIGENT CITY: "Energy-Mobility-Administration"

Essen 18.9.2014

Anna-Kaisa Ikonen, Mayor of Tampere, Finland



Tampere scaling factors

- With its 360,000 inhabitants, Greater Tampere is the largest growth center in Finland after the capital region
- The annual population growth is 1,1%
- 2/3 of Finns live within 200 km of Tampere
- GDP per capita is over €35,000
- **R&D expenditure 7% of GDP** (Sweden tops the list of nations with about 4%)
- Technology industry, ICT, chemicals largest industries
- Two universities and one large polytechnic
- Total of 38.000 students, cf. city population of 220.000
 - Students provide the basic beat of change and dynamism for the region
 - Universities have been actively collaborating with industry since late 1970's



Tampere – the most attractive city* in the best** country in the world *National poll **Newsweek Magazine



Traditional and more innovative urban development paradigm

City of the past

- Constructs buildings, roads, and suburbs
- Produces itself all services and requires increasingly more staff
- Uses more energy, materials, and natural resources
- Spreads and overtakes green areas and rural areas
- Has a hierarchical administration and operates without open interaction

City of the future

- Facilitates innovative urban possibilities
- Provides services through a range of means and methods, partners and partnerships
- Decreases its need for energy and resources with industrial symbiosis and high level energy efficient actions
- Shrinks its ecological footprint
- Has an open administration, engages citizens, operates through networks



Smart and Green Tampere

- Innovation environments
- Services based on citizens' needs
- Wellness and security

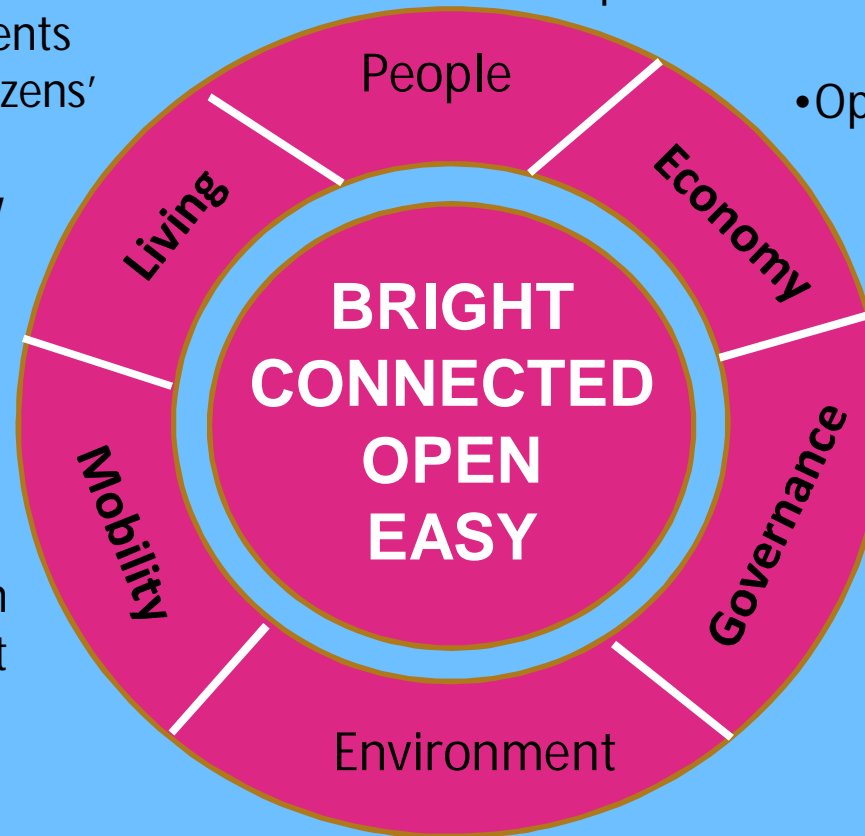
- Traffic as a service
- Connected, interactive and citizen oriented environment
- Electric mobility

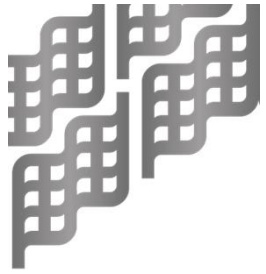
- Open participation
- High level education
- Real life innovation platforms

- Open Innovation platforms
- Companies as partners
- Industrial ecosystems

- Open data
- Innovative procurement
- Transparent administration

- Eco-efficient urban development
- Industrial symbiosis
- Energy-efficient built environment





Connected City



Where Technology, Communication and Design meet creating an ideal environment in which to live and work.



CONNECTED VIA
Buses & Trams
WiFi Infrastructure
Hotspots & Co-Working Stations
Wireless Charging Stations
Comprehensive City Platform
Bicycle & Walking Paths
Personal Interactions





Urban and Green



Densification is more eco-efficient than urban sprawl

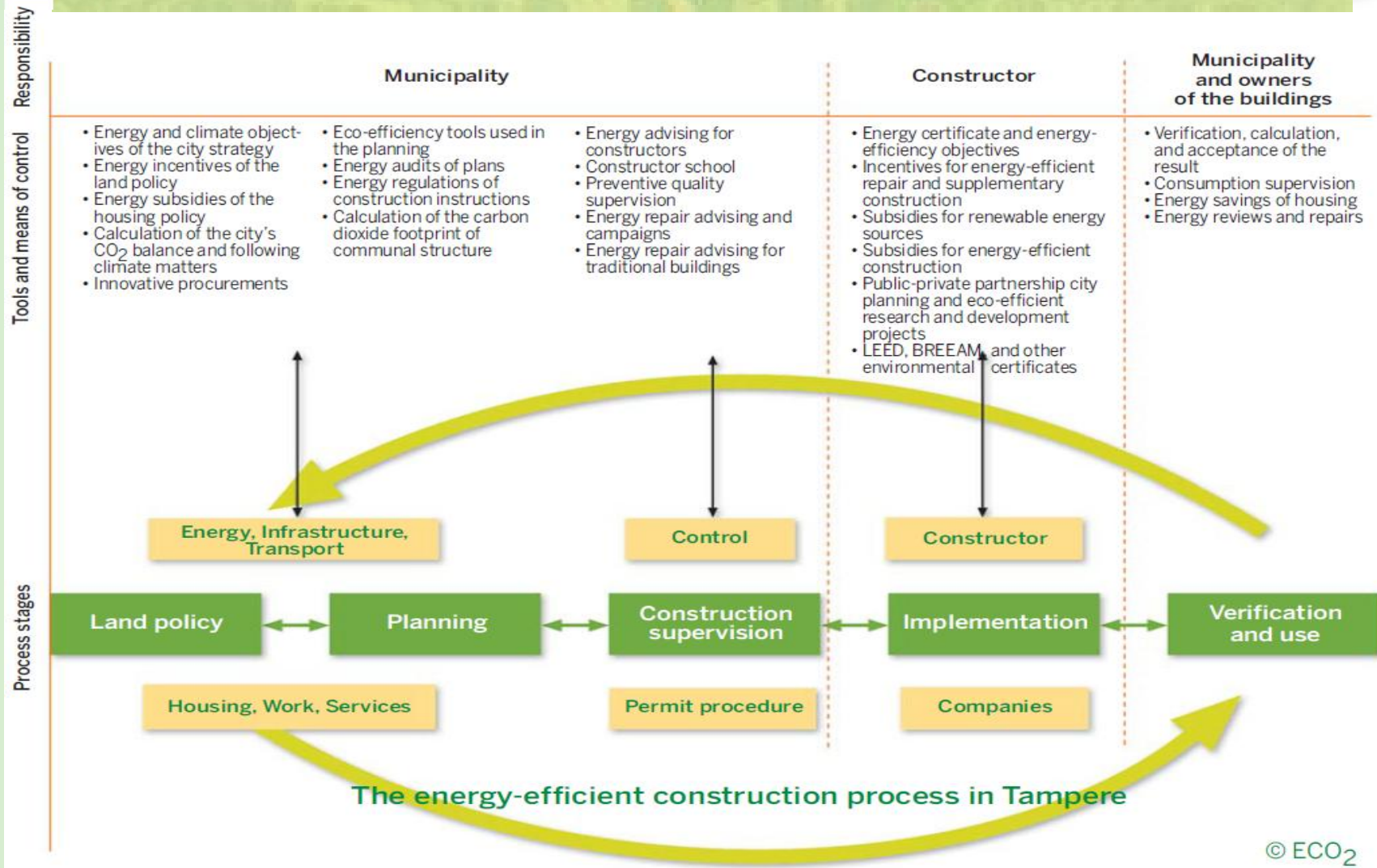


An Energy Efficient City

Increased supply of
renewable energy to
district heating
customers

90 % of housing is within
the district heating grid

Eco-efficient urban development process



An Innovative City



- Novel innovation platforms are open environments that produce ideas, tackle wicked problems and form growth companies.
- These innovation environments are joint undertakings of the universities, of the corporate world, of the public sector and of the individual – we call it the **QUADRUPLE HELIX**



Smart Economy – Open innovation platform

DEMOLA AS A PLATFORM

An unique platform to operate open innovation activities internationally



1.

**Existing network
as a backbone**
Ecosystem
engagement and
partnerships

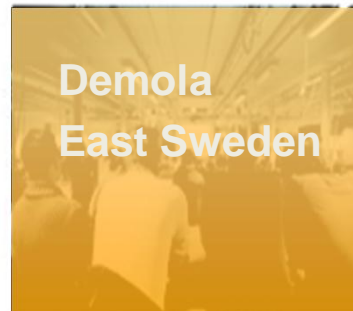
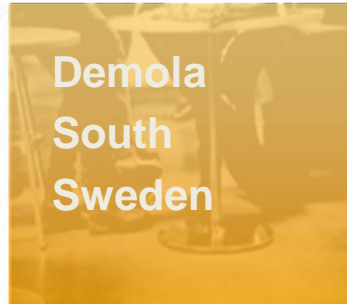
2.

**Demola tools
and processes**
Compatible
platform and rapid
development

3.

**Professional
facilitation**
Capability to deliver
end-to-end service





*AER regional
innovation award 2010*



*The Best Summer Job
2011 in Finland*



*Baltic Sea Region
Innovation award 2012*

DEMOLA
NETWORK

Smart Governance – Open data

Open Data Tampere Region project was founded in the beginning of 2013 to speed up opening and utilising public data.

1. Encourages and helps to open the data.
2. Activates utilising the data.
3. Brings opening the data into the normal operation of the city of Tampere.
- 4. Develops opportunities for businesses in the region.**

<http://data.tampere.fi>



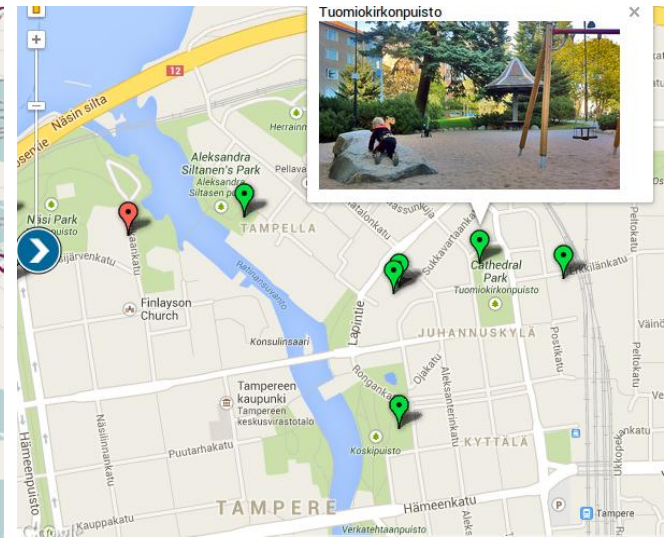
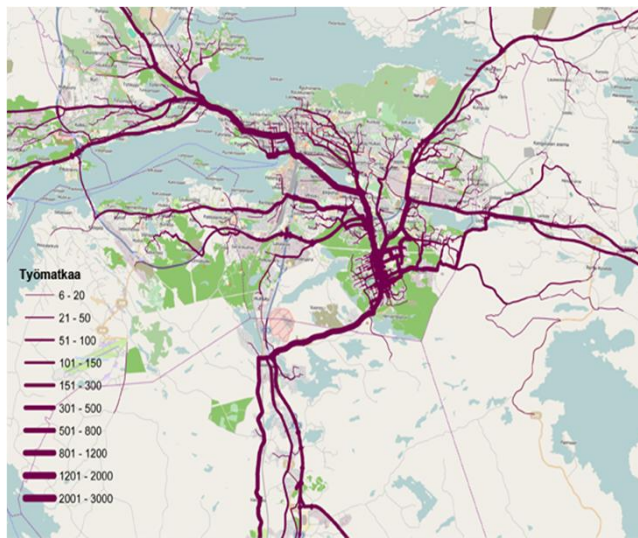
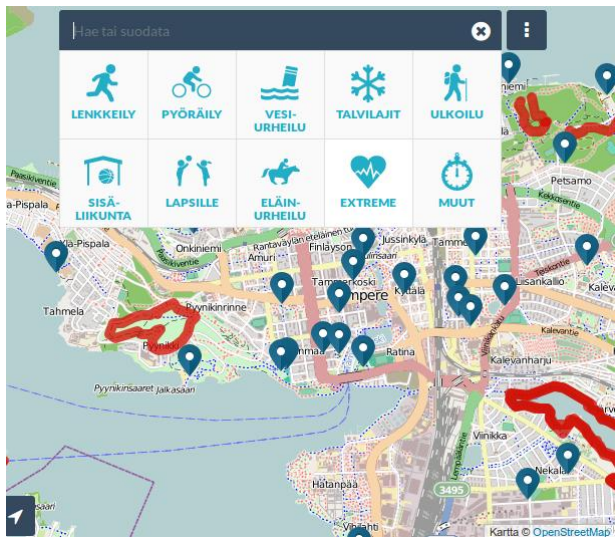
TAMPEREEN KAUPUNKI

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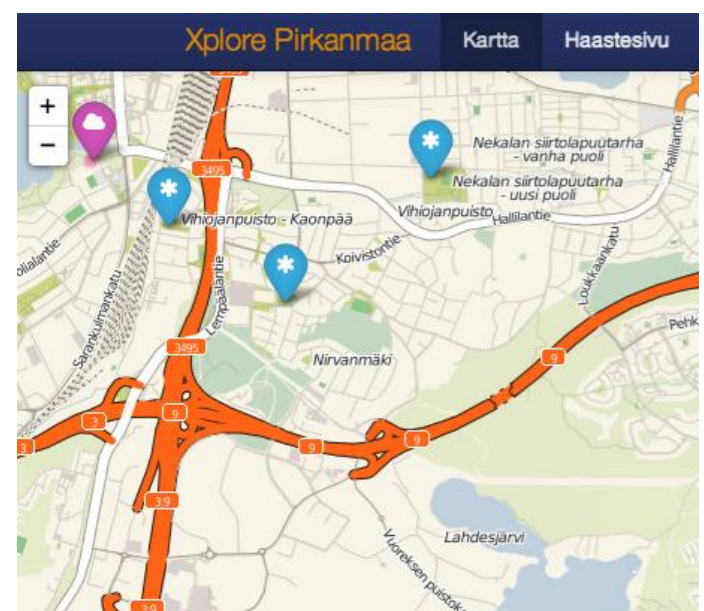
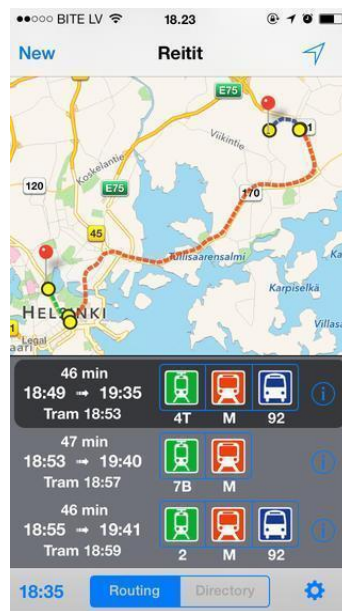
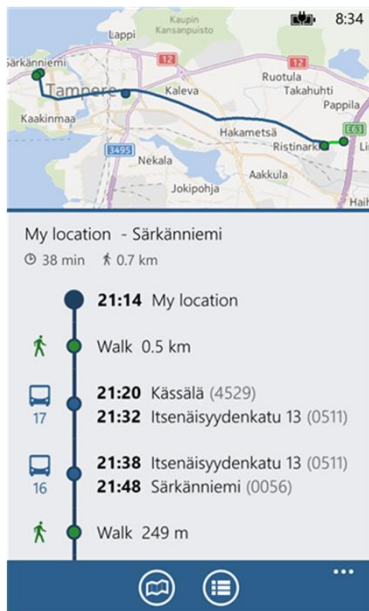
AVOIN *All
Bright!*
TAMPERE

TREDEA





Over 20 apps & services based on published data



Smart Mobility – Traffic as a service

ITS Factory

Tampere-based innovation, experimentation and development environment for smart traffic. Open traffic data is a key element in the future's smart traffic.

<http://itsfactory.fi>

<http://data.itsfactory.fi>



ITS **FACTORY**
INNOVATIVE
TAMPERE SITE



ITS Data Sources

New data sources for innovative services and applications for the end users

Road Traffic

Traffic Flow
Roadworks and Streetworks
Incidents and Accidents
Road Weather



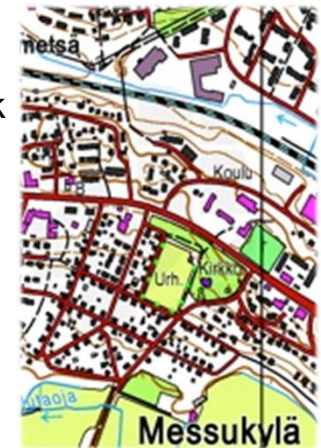
Parking

Occupancy
Facility Information



Geodata

Road network
Other traffic infrastructure
Street addresses
Map data
POIs



Public Transport

Timetables
Stop Timetables
Bus Location
Route Planning



Pedestrians and Cyclists

Cyclist & Pedestrian
Traffic Flow
Route Planning





Thank you!
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