

**Urbaanit tulevaisuudet -
Älykaupunkisuunnittelun suuntaviivoja Tallinnan
Ülemisten alueelle**

JENNI PARTANEN 19.3.2020

TALLINNAN TEKNILLINEN YLIOPISTO

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'FUTURE CITY' PROFESSUURI

**TULEVAISUUDEN 'ÄLYKKÄÄN' KAUPUNGIN' HAASTEET KAUPUNGIN
SUUNNITTELULLE JA HALLINNALLE**

VIRO JA TALLINNA - NUTIKAS LINNA



e-identity

Did you know that more digital signatures have been used in Estonia than in the rest of the European Union altogether?

- ID-card
- Mobile-ID
- e-Residency
- Smart-ID

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interoperability services

Did you know that X-Road saves over 1407 years of working time for Estonia every year?

- X-Road
- e-Land Register
- Population Registry

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security and safety

Did you know that scalable blockchain technology called KSI is invented by Estonian cryptographers?

- KSI Blockchain
- e-Law
- e-Justice
- e-Police

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healthcare

Did you know that Estonia uses blockchain technology to ensure healthcare data security?

- e-Health Records
- e-Ambulance
- e-Prescription

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e-governance

Did you know that 99% of public services are available to citizens as e-services?

- Government Cloud
- Data Embassy
- i-Voting
- e-Cabinet

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mobility services

Did you know that self-driven vehicles have been allowed to drive on public roads in Estonia since 2017?

- Intelligent Transportation Systems
- Mobile Parking
- Border Queue Management

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business and finance

Did you know that you can establish a company in Estonia just in 3 hours?

- e-Tax
- e-Banking
- e-Business Register

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education

Did you know that twice as many students pursue IT careers in Estonia than the average in other OECD countries?

- Estonian Education Information System
- eKool and Studium
- e-Schoolbag
- Other e-school solutions

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Ülemiste:
'Viron Silicon Valley 2045'

'URBAN FUTURES'

"UNIQUE, VIABLE, CONSTANTLY RENEWING URBAN ENVIRONMENT THAT PROMOTES BUSINESS AND URBAN LIFE, SETTING AN EXAMPLE GLOBALLY"

"UBIQUITOUS DIGITAL TECHNOLOGY (i.e. smart city) IS IMPLICIT"

"Taking high quality urbanism to the next level:

"CITY 2.0" "

TECHNOLOGY (MAY) CHANGE HOW THE GOOD URBAN QUALITIES ARE MANIFESTED AND DISCOVERED



'URBAN FUTURES' - TAUSTAA

URBAANI EVOLUUTIO TRANSITIOIDEN KAUTTA

TUNTEMATON TULEVAISUUS: SUURI LAADULLINEN MUUTOS



'URBAN FUTURES' -

EKOSYSTEEMIEN SUUNNITTELUSTA

'URBAN FUTURES'

+WE KNOW:

CURRENT URBAN THEORIES OF **HOW TO PROMOTE GOOD QUALITIES IN CITIES:**

-WE DON'T KNOW:

HOW THESE WILL BE MANIFESTED IN SMART CITY – VISIONING NEEDED:

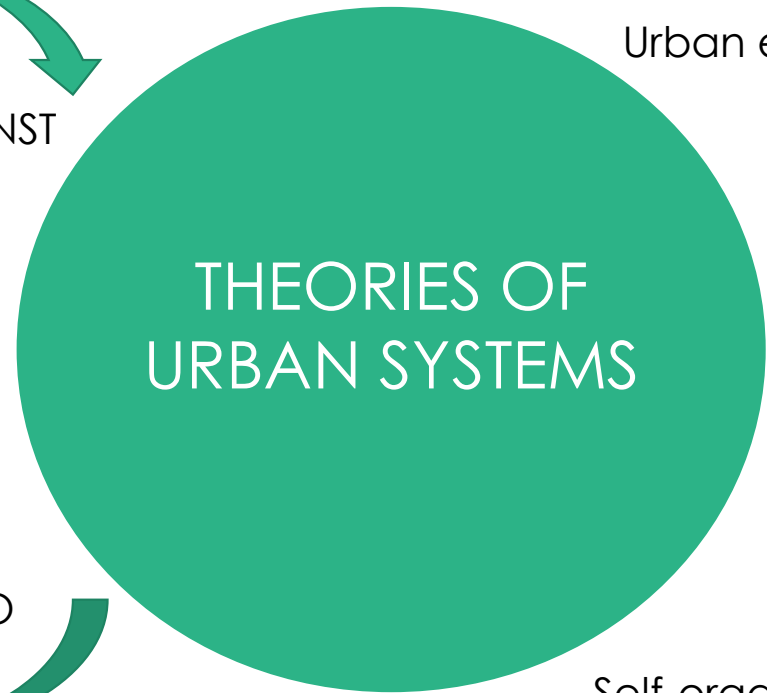
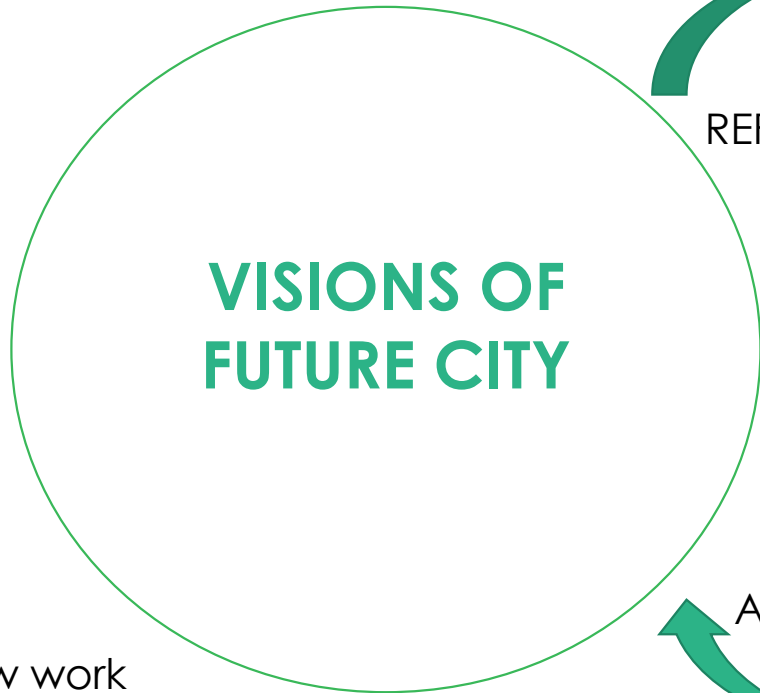
WHAT WE CAN DO

-New mobility

New ways of life

Accessibility/mobility

Urban economics



REFLECTED AGAINST

REVISED
ACCORDING TO

New work

New planning

Self-organization
Morphological theories

'URBAN FUTURES'

- TARKASTELTAVIEN SYSTEEMIEN VALINTA
- KAUPUNGIN METABOLIAN AVAINSYSTEEMIT

IHMINEN DYNAMIIKAN
PROMOOTTORINA JA KOHTEENA



TILALLIS-TOIMINNALLINEN
RAKENNE

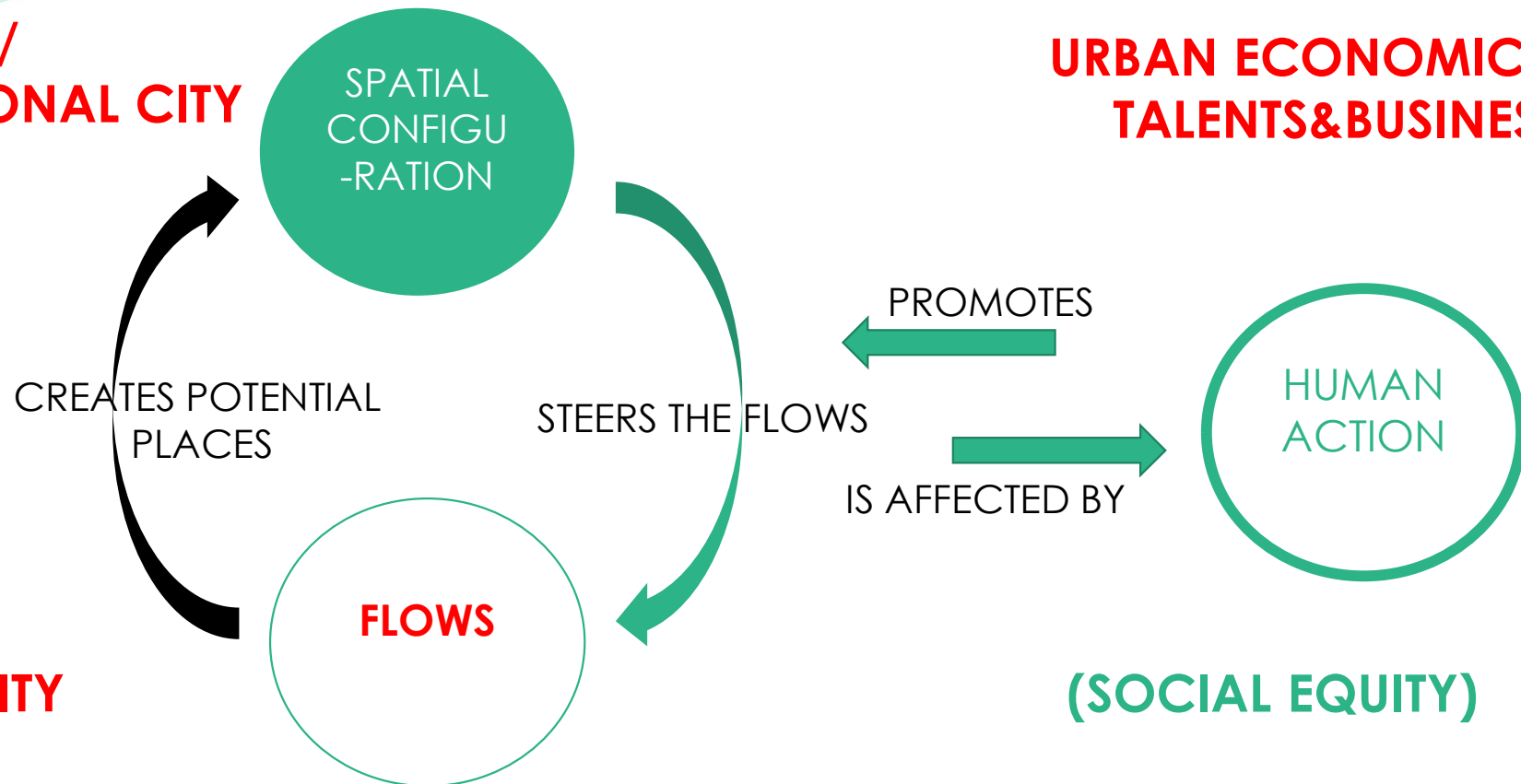
IHMISTEN, TAVAROIDEN,
INFORMAATION VIRRAT



CITY AS AN ECOSYSTEM WITH METABOLIA

**SPATIAL/
FUNCTIONAL CITY**

**URBAN ECONOMICS:
TALENTS&BUSINESS**



'URBAN FUTURES'

- Data-driven: big data, paikkatieto
- Metodit: data analyses, simulation, machine learning
- Strategisuus ja skenaariot: "mahdolliset maailmat"

