



**ESPOO
ESBO**

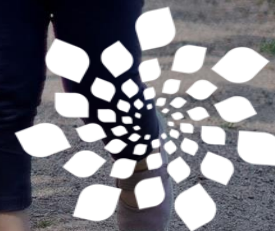


**Aalto University
School of Business**

Smart Sustainable City Baltic Sea Region

Taina Tukiainen, Professor, Aalto
Angelina Korsunova, Dr. , Aalto
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<http://smartup-bsr.eu>



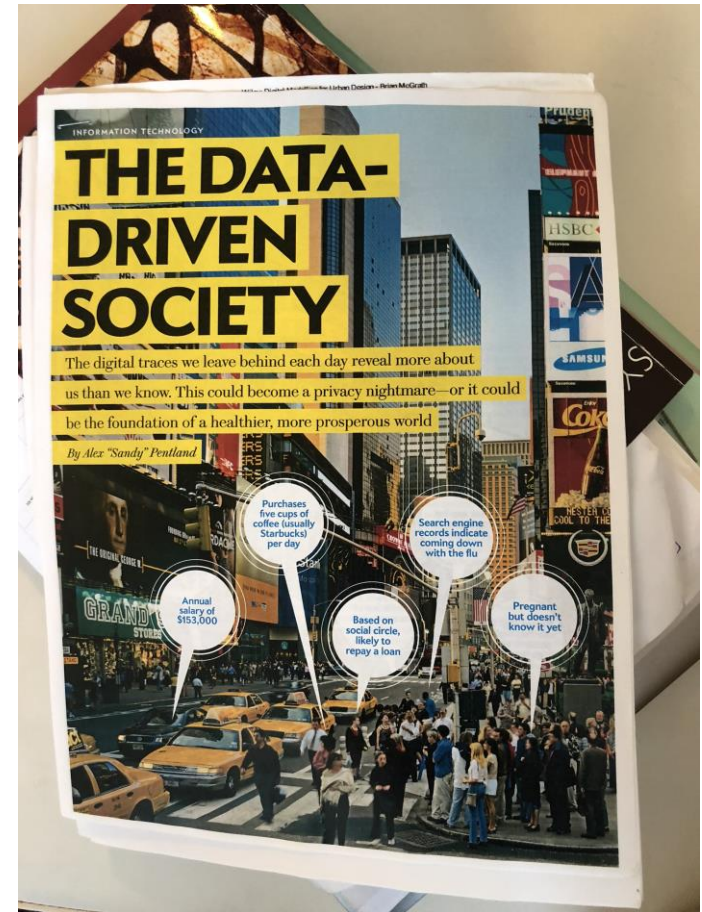
Learning City
ESPOO




Global megatrends

- Globalisation
- Urbanisation
- Digitalisation
- Sharing economy...


sources of challenges
or part of the solutions



EUROPEAN UNION

 Committee of the Regions

Regional Innovation Ecosystems

CoR guide Learning from the EU's Cities and Regions




“

A truly 'smart city' should also possess other dimensions - it should be a palimpsest of creative, bottom-up civic engagement

Prof Carlo Ratti

DISRUPTIVE INNOVATION

Why Sustainability Is Now the Key Driver of Innovation

by Ram Nidumolu, C.K. Prahalad, and M.R. Rangaswami

Why ecosystems approach?

Ecosystems are dynamic and purposive networks where participants collaborate to create value that would not be possible for a single participant alone

(Thomas & Autio 2014)

It is an analytical lens which can be used to examine any network of actors that recognize they are collaborating to create value

Just like species in biological ecosystems, participants of business ecosystems are interdependent

(Moore, 1993)

The ecosystem approach emphasizes the position and roles of local and public actors in developing the innovation activities

(Oksanen & Hautamäki 2015)

What is smart sustainable city?

“The integrated, holistic vision on digital societal transition - to set the agenda, the ambition for linking the different vertical silos horizontally .. “

*Denmark & China are deploying the same technologies.. In Denmark **transparency of public process is important**, while China imposes transparency on citizens to measure their “social credit score”*

Prof. Martin Brynskov, Aarhus

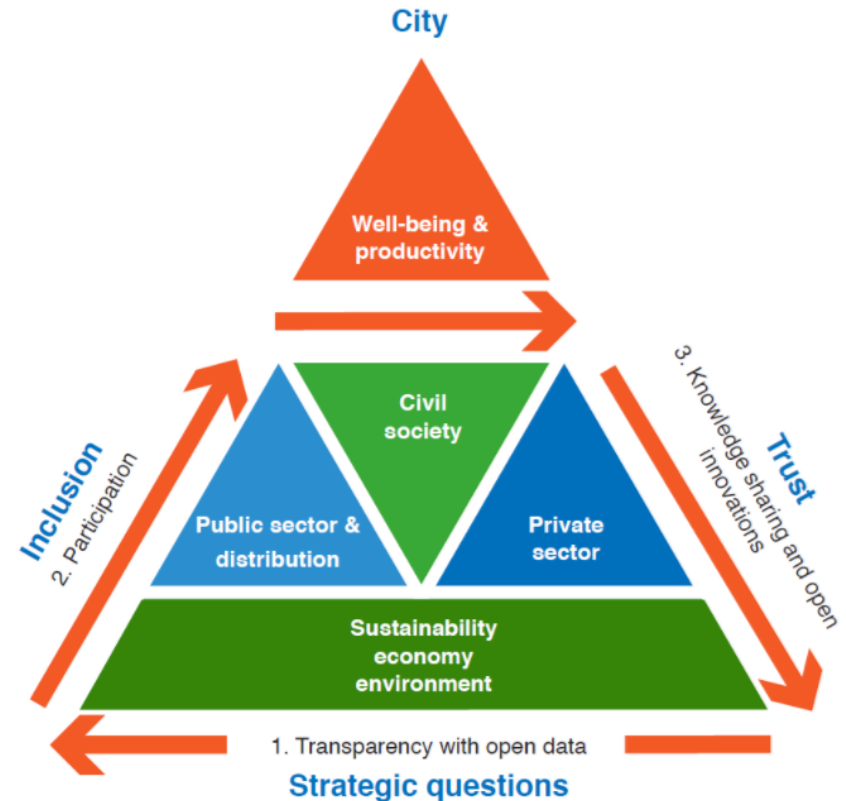
- *It is about **resilient institutions that are willing to consider new ideas***
- *Smart city is a **city that sustains itself, that has such environment that people actually are empowered to decide and pursue ideas***
- *‘It’s not about specific technologies, but it’s about **using technologies for the purposes of people**’*
- *‘**Place where technologies and humans co-evolve**’*

Dr. Erkki Karo, Tallinn

Smart sustainable city- open & inclusive

Cities as enablers & change agents

- *transparency, inclusion, trust*
- *citizen and whole society involvement*
- *open innovation and data*
- *sharing knowledge, co-creation*
- *encouraging citizen participation and engagement of all stakeholders to open innovation processes*
- *future oriented*



Smart Specialisation



“Smart specialisation priorities allow regions to make themselves and their scientific and industrial potential known abroad. They help find cooperation partners to become part of global value chains.”

Jyrki Katainen, Vice-President of the European Commission

“Smart specialisation was introduced a few years ago to channel cohesion funds in a more effective way, but it is much more than that and has the potential to do even more”

Jyrki Katainen
European Commission Vice-President



An innovative bottom-up process

RIS3 as ex ante conditionality for ERDF 2014–2020



How to focus R+I investments on few strategic priorities?



How to deliver more targeted innovation funds?



How to harness the real growth potential of a specific EU region?



SMART

Identify the region's own strength, potential and competitive advantages.



SPECIALISED

Boost existing and emerging regional strengths through research and innovation efforts.



STRATEGIC

Define smart specialisation strategy together with entrepreneurs and partners, prioritising R+I investments in key domains.

S3 Design → Implementation

- What policies should be gathered under the S3 umbrella?
- How to select projects?
- What challenges need to be addressed for implementing S3 successfully?

EDP Process



Business

Manufacturing and services
Primary sectors
Financial sector
Creative industries
Enterprises (large and SMEs)
Clusters and organisations

Research and Education



Public and private research bodies
Universities
Education and training
VET centres
Science and technology parks
Technology transfer offices



Public Administration

Different government levels
Energy and innovation agencies
Regional development agencies
Business advice offices
Public procurement departments
Public incubators

Civil society/ Users



Non-Governmental Organisations
Citizens' initiatives
Societal challenges
Cooperative innovative solutions
Consumers associations
Talents

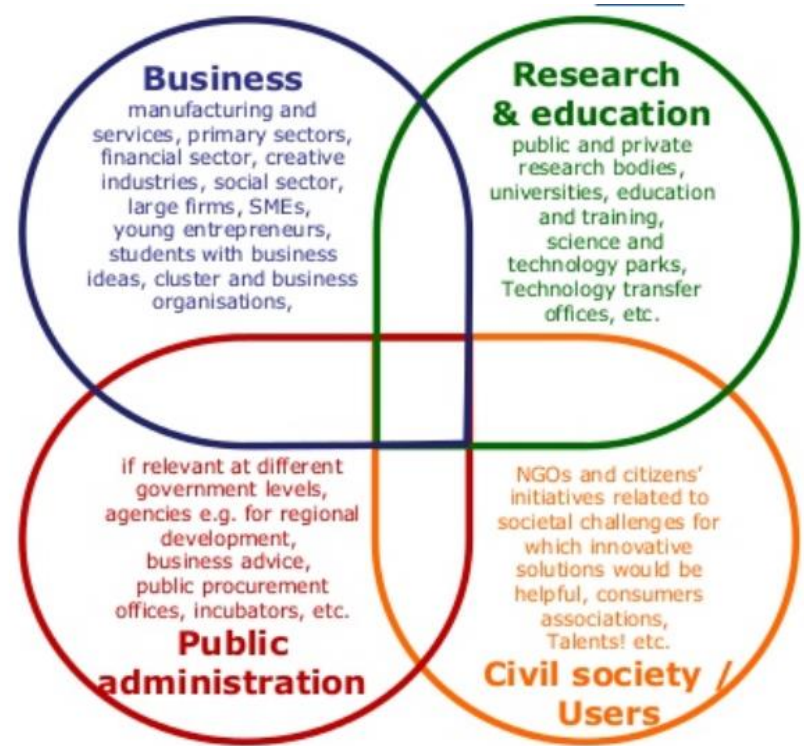
Joint
Research
Centre



Entrepreneurial Discovery Process

Entrepreneurial discovery process

- reveals what a country or region does best in terms of R&D and innovation.
- Entrepreneurs in a broad sense (firms, higher education institutions, independent inventors) combine and relate knowledge about science, technology and engineering with knowledge of market growth potential, potential competitors as well as the whole set of inputs and services required for launching a new activity.



Foray et al. 2015

Our approach and data cover the BSR

- 1. Regional stakeholder engagement:** How do we make the development of our regions inclusive? How do we engage diverse stakeholder in Baltic Sea Region?
- 2. Inter-regional collaboration:** How to engage and collaborate across regional borders in Baltic Sea regions? How to create and develop the spearhead initiatives together in the macro-region?
- 3. Entrepreneurial discovery process:** How to boost entrepreneurship and start-ups in BSR? How does the entrepreneurial discovery process create value in BSR?
- 4. Grand societal challenges:** How to tackle grand societal challenges like climate change, circular economy, and healthy ageing via smart specialization in BSR? How to attract relevant businesses inclusively?

Our approach & key messages

Smart Sustainable City” and understanding of how

- technology can help to increase the quality of life and make the cities more “liveable”
- open, transparent, inclusive processes and participation with resilient organs
- dynamic, entrepreneurial discovery processes work.

Use of Smart specialisation and engagement to

- bring the different stakeholders together to engage on societal challenges
- facilitate inclusive stakeholder involvement and building innovation ecosystems
- share best practices and collaborate inter-regionally and
- allow regions to learn hands-on, experiment and build solutions to their specific regional challenges via innovation camps.

