

EUROPEAN UNION



Committee of the Regions

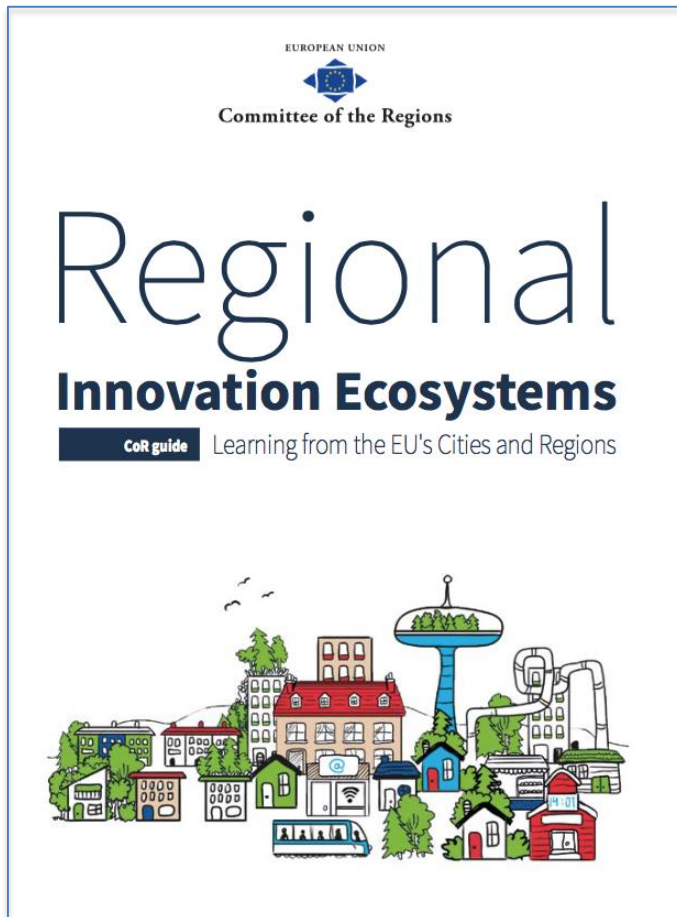
***The Future EU Budget,  
the Role of RIS3 and the Shape of  
Post-2020 Policies for  
Research and Regional Innovation in  
Europe***

***17 October 2017***



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European Committee of the Regions CoR  
Taina Tukiainen, Prof. Aalto University**

## *From Bench-marking to Bench-learning*



**Download the CoR Guide:**  
<http://cor.europa.eu/regional-innovative-ecosystems>

## *EU is providing support instruments for this change*



[Read more +](#)

Smart City project to pilot  
and prototype the Future



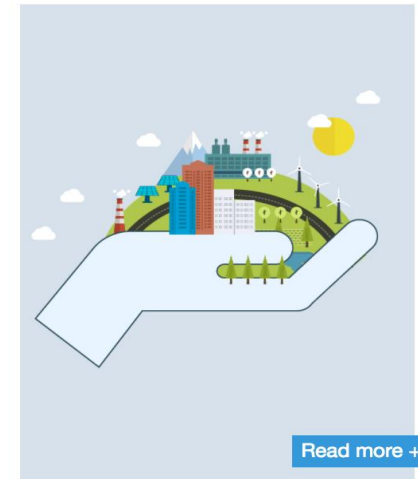
[Read more +](#)

Service for Municipalities,  
Stakeholders and Citizens



[Read more +](#)

Financing opportunities  
for Smart City projects



[Read more +](#)

Unique digital urban  
model for each city

# ***Working alone → Triple Helix → Quadruple Helix → Regional Innovation Ecosystems***

**The future of Europe: 1) Based on bottom-up approach; 2) New financing after 2020; 3) Cohesion funds for all regions is a must.**

## **Integrated approach to sustainable growth:**

1. Four dimensions: economic, ecologic, social and cultural
2. Synergic use of funding instruments, including EU & local public and private
3. Forerunner cities & regions needed
4. Breakthrough initiatives

## **Platform economy:**

1. Breaking silos and moving towards entrepreneurial mindset
2. Digitalization by-default
3. Open data, open innovation & inclusiveness
4. Innovation platforms for experimenting, piloting and rapid prototyping → scaling up

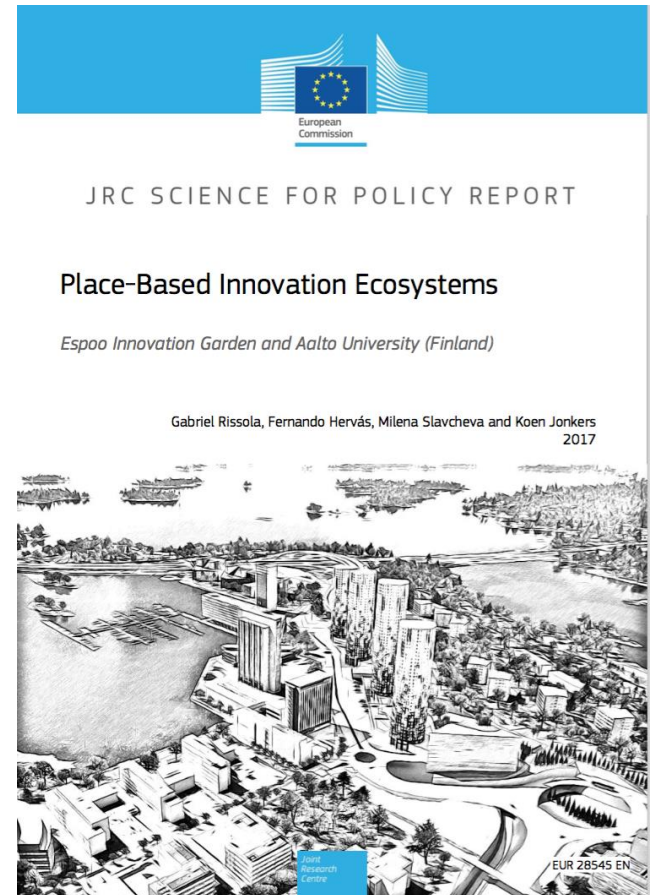
# Place-Based Innovation Ecosystems

The future EU Urban Agenda can be defined in a new way:  
The future smart cities function as mutually complementary ecosystems, where different actor groups and actors collaborate to discover the optimal balance in:

- 1) **urban economic activities,**
- 2) **comfortable, invigorating and human-scale living environments,**
- 3) **synergistic innovation processes for continuous renewal.**

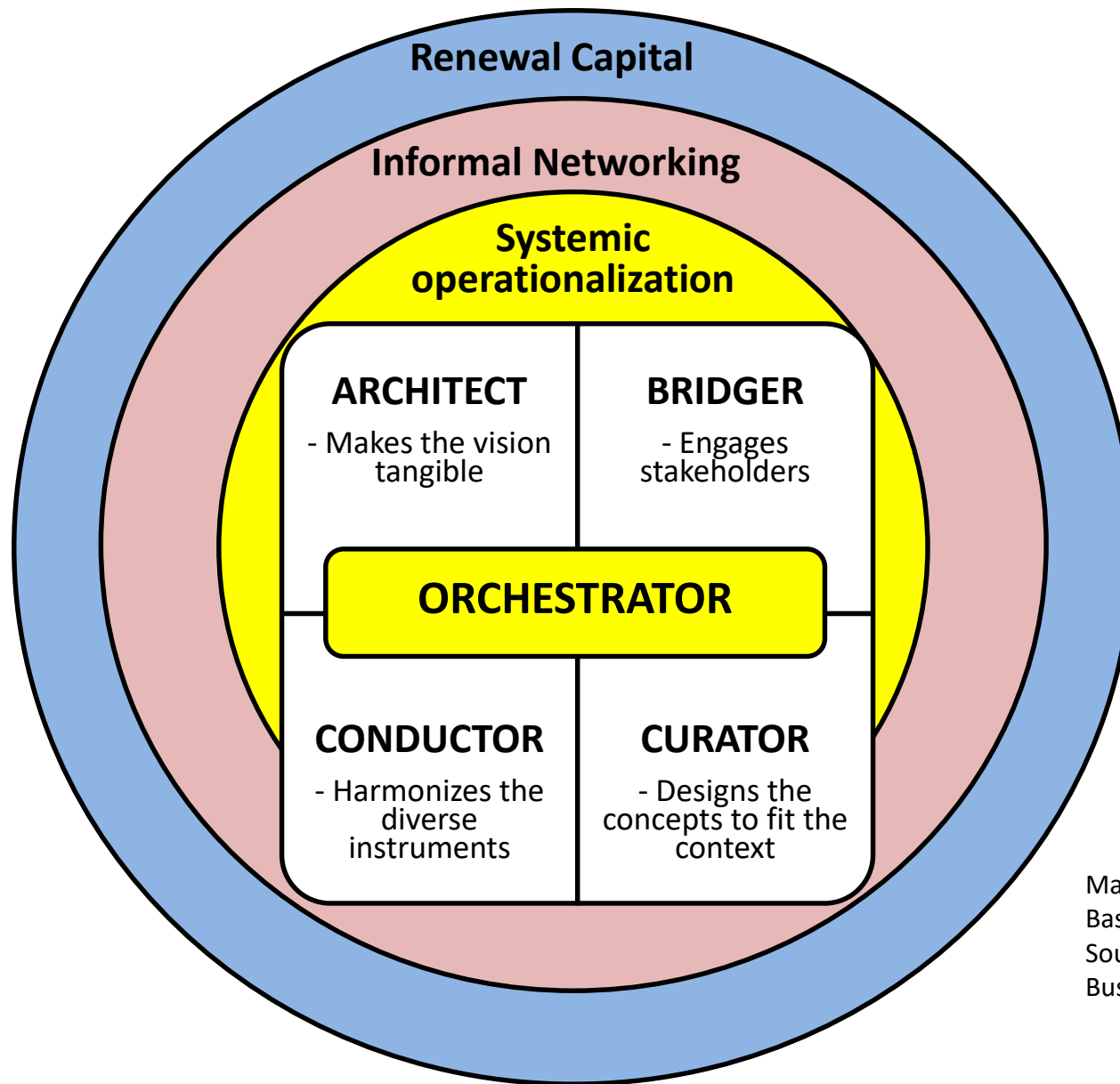
This means that future urban ecosystems can be seen in a much broader context than before: **as orchestrated platforms for testing emerging concepts and technological solutions for a sustainable tomorrow.**

Furthermore, Europe needs to investigate how to turn the accumulating know-how into competitive and successful **business models, processes and other operations.**



JRC publication EUR 28545

# ***Different Roles in Regional Innovation Ecosystem***



Markkula, Kune & Tukiainen  
Based on ACSI Espoo 2015,  
Source also Johan Wallin,  
Business Orchestration, 2006



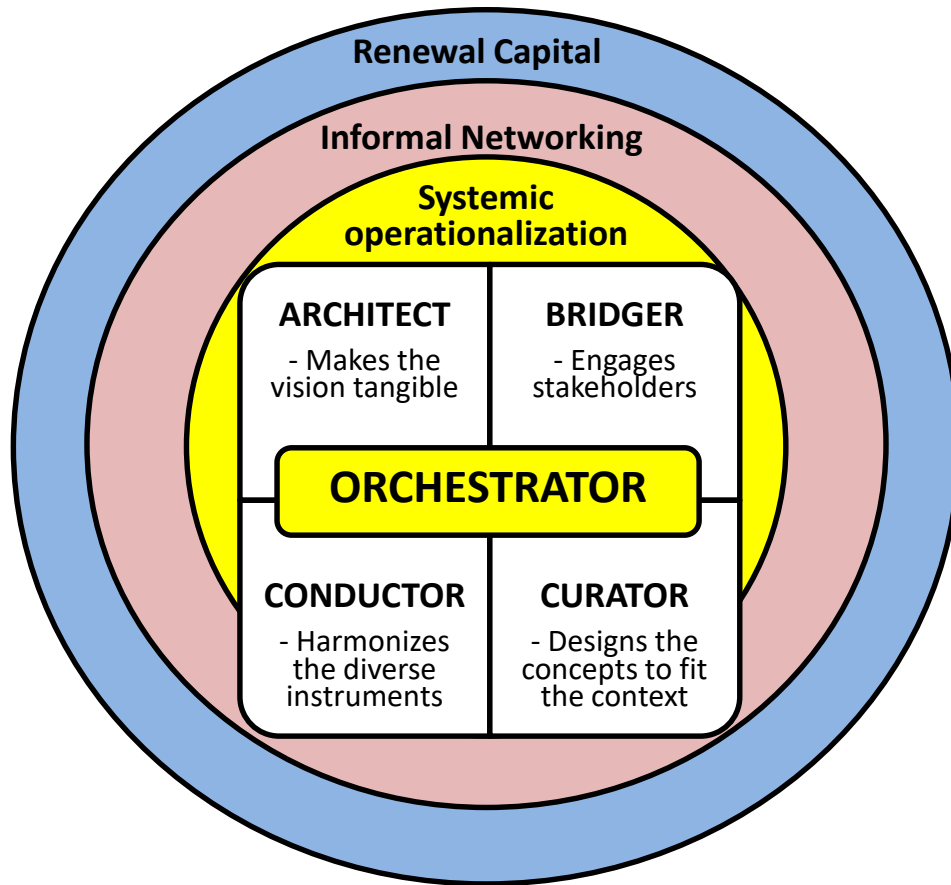
## ***Aalto, Espoo: A Successful Example of Place-Based Innovation Ecosystem***

- Concentration of highly skilled human capital and research infrastructure
- Vision, political commitment and collaborative culture of Helsinki-Uusimaa Regional Council and Espoo City
- Emergence of a strong orchestrating actor: Aalto University, with its
- Local culture of innovation and entrepreneurship
- Focus on the potential and capability of people
- Financial and policy support from central government
- Successful involvement of entrepreneurs



JRC publication EUR 28545

# *Regional Innovation Ecosystems for Sustainable Growth*



**How to integrate lessons from EU Lighthouses & JRC Knowledge Centre for Territorial Policies & EC 18 July 2017 on S3:**

- 1) Bigger orchestrated megaendeavours (100 m€) needed
- 2) Use of the Aalto/Espoo co-creation process experiences;
- 3) Next phase of RIS3: Place-Based RIE to tackle sustainable growth by increasing human capital with “Science meets Regions” & EER (start-ups and growth companies)



# Aalto University Research Focus Areas

*Human-centered living environments*

25 professors  
19 recruitments  
20 M€ Aalto budget  
5 M€ ext. funding

*ICT & digitalisation*

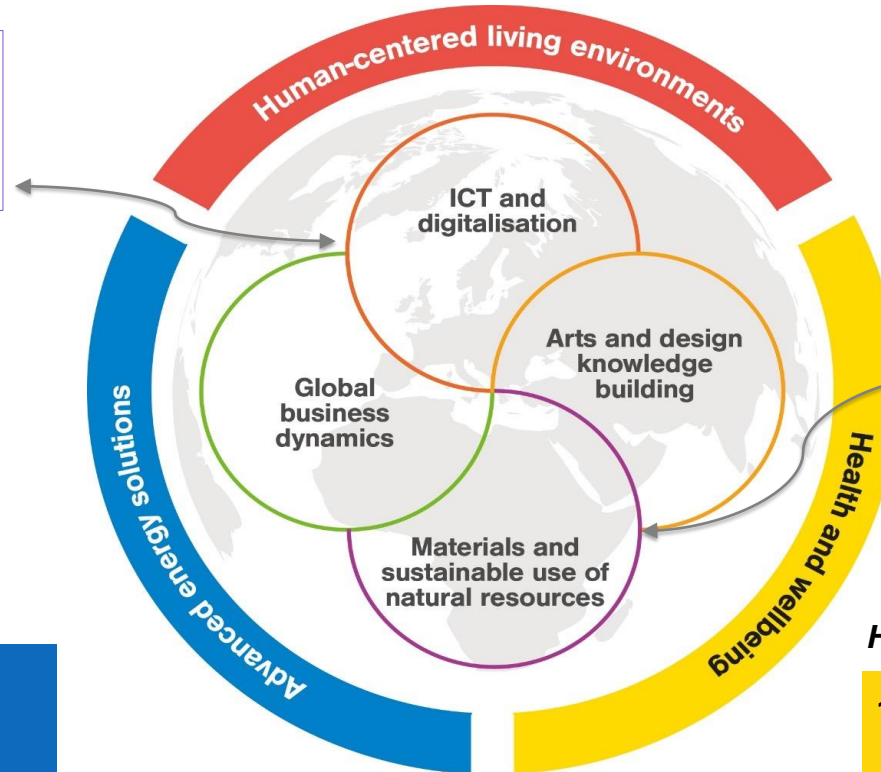
98 professors  
47 recruitments  
65 M€ Aalto budget  
50 M€ ext. funding

*Global business*

85 professors  
51 recruitments  
40 M€ Aalto budget  
15 M€ ext. funding

*Advanced energy*

20 professors  
13 recruitments  
15 M€ Aalto budget  
10 M€ ext. funding



*Arts & design*

28 professors  
25 recruitments  
20 M€ Aalto budget  
5 M€ ext. funding

*Materials & resources*

61 professors  
36 recruitments  
45 M€ Aalto budget  
30 M€ ext. funding

*Health & wellbeing*

14 professors  
9 recruitments  
10 M€ Aalto budget  
5 M€ ext. funding

The Aalto University strategy is to build excellence by focusing its activities on seven key research areas to reach world-class results by 2020:

- the four core areas of competence: ICT and digitalization; Materials and sustainable use of natural resources; Arts and design knowledge building; Global business dynamics;
- the three multidisciplinary themes: Advanced energy solutions; Human-centered living environments; Health and wellbeing. These themes are the core of our cross-cutting research agenda and the consequent societal impact.



## WP2: Revisiting BSR RIS3 strategies and roadmaps

# BSR Smart-up Overview

## WP3: BSR RIS3 content and pilot planning

### Activities

- Revisiting and creating updates
- Regional best practice sharing and engagement in Innovation camps

### Outputs

- Updated BSR RIS3 strategies, roadmaps and implementation plans
- Scenarios and SWOTs

## WP5: BSR RIS3 piloting in (cross)regions

### Activities

- Mapping and selecting good practices
- Planning of (cross)regional pilots in Healthy Ageing, Smart City, Climate Change and Circular Economy

### Outputs

- Content reflection papers
- Action plans of (cross)regional pilots

### Activities

- Reporting regional success stories
- Implementing and reporting (cross) regional pilots

### Outputs

- Regional success stories
- Pilot reports

## Results

- BSR RIS3 strategies and roadmaps updates by regions
- BSR macro regional collaboration and engagement
- new instruments and platforms for engagement, value creation and innovation hub development
- BSR recommendation for macroregional policies development, implementation and engagement in EC

## WP4: BSR RIS3 strategic instruments and platforms

new instruments and platforms for engagement, value creation and innovation hub development

Innovation camps: engagements, guidelines, methods and activities

## WP1: Project Management and communication

Partner meeting, BXL, 10/17

Inno camp 1  
A2.1+W  
P4, DK,  
03/18

Inno camp 2  
A2.3+  
WP3,  
Estonia,  
08/18

Inno camp 3  
A2.6,  
DE,  
11/18

Mini camp 2,  
WP5,  
RU,  
06/19

EWRC  
2019,  
BXL,  
10/19

Mini camp 3,  
WP5,  
PL, 05/20

Inno camp, Content  
FI, 11/17

Mini camp 1  
A2.3+  
WP3,  
LT,  
06/18

EWRC  
2018, BXL,  
10/18

Inno camp 4,  
A2.7+  
WP5,  
FI,  
04/19

Inno camp 5,  
WP5,  
LV, 08/19

Inno camp 6,  
WP5,  
SE, 11/19

Final conference  
FI, 09/20

## *For the Discussion:*

# *Societal Challenges Are Complex, Require Responses by Many Policy and Knowledge Disciplines*



- To solve the grand challenges facing society — energy, water, climate, food, health — scientists industry and politicians must work together.
- Universities are facing their own challenge: research that transcends conventional academic boundaries is harder to fund, do, review and publish — and those who attempt it struggle for recognition and advancement.