# PLACE-BASED INNOVATION ECOSYSTEMS: WHY CONTEXT MATTERS

ENoLL workshop

*Post Covid – Open Access to Social Innovation Ecosystems to address Global Challenges – Collective Ways Forward*

09 March 2021

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**European Commission - Joint Research Centre**

# PIEs Typology

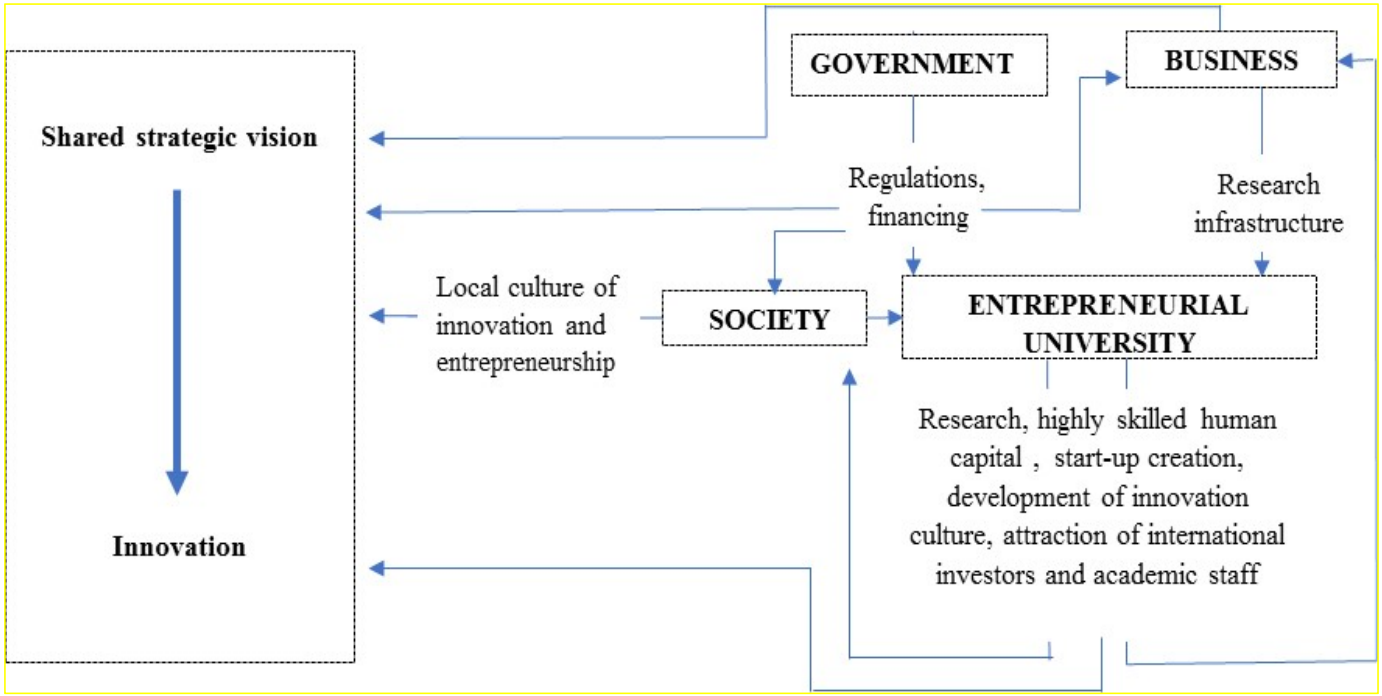
- **Case 1** Entrepreneurial University Innovation Ecosystem
- **Case 2** Digital Social Innovation Ecosystem
- **Case 3** Industrial Innovation Ecosystem
- **Case 4** Start-up Innovation Ecosystem
- **Case 5** Innovation District Ecosystem


Source: Author's compilation based on software of Google My Maps

# Typology of Place-Based Innovation Ecosystems
# Case 1

## Entrepreneurial University Innovation Ecosystem

**Espoo**




**Source: Author's compilation based on data from Rissola et al, 2017**

# Digital Social Innovation Centres
# Barcelona's metropolitan area

European Commission

Citizen Labs

StartUps

FabLabs

University labs

Labour Labs

Networks

Living Labs

Coworking Spaces

Ateneus Digitals

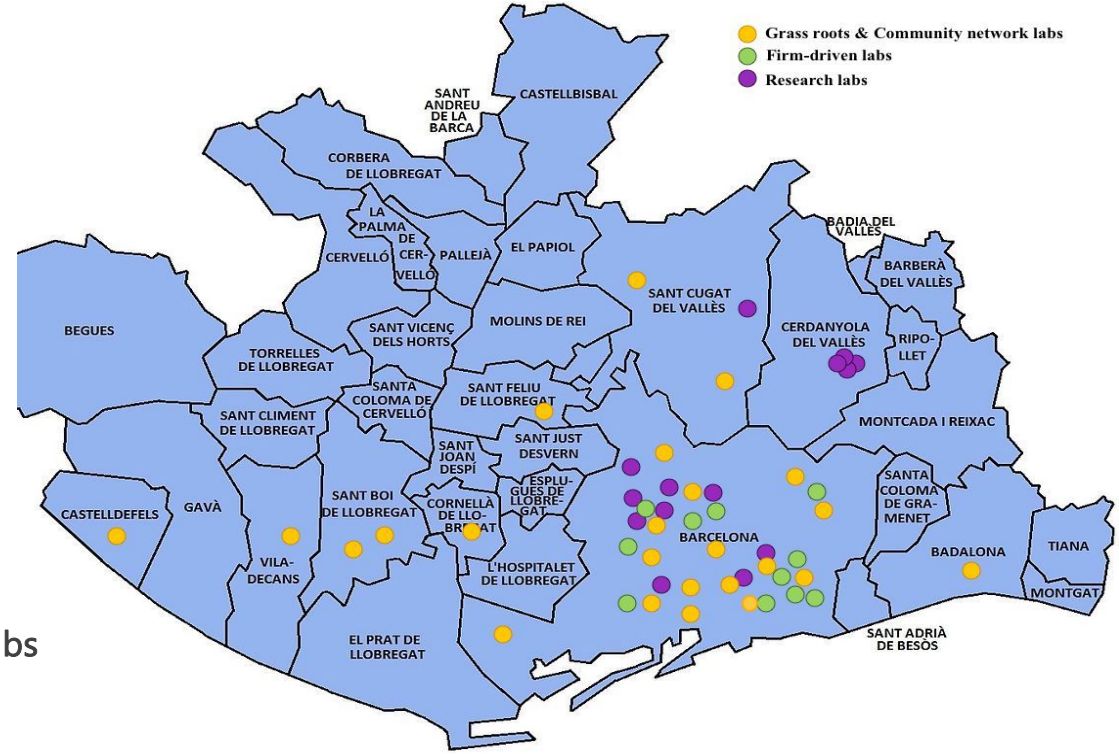
Programmes

Makers

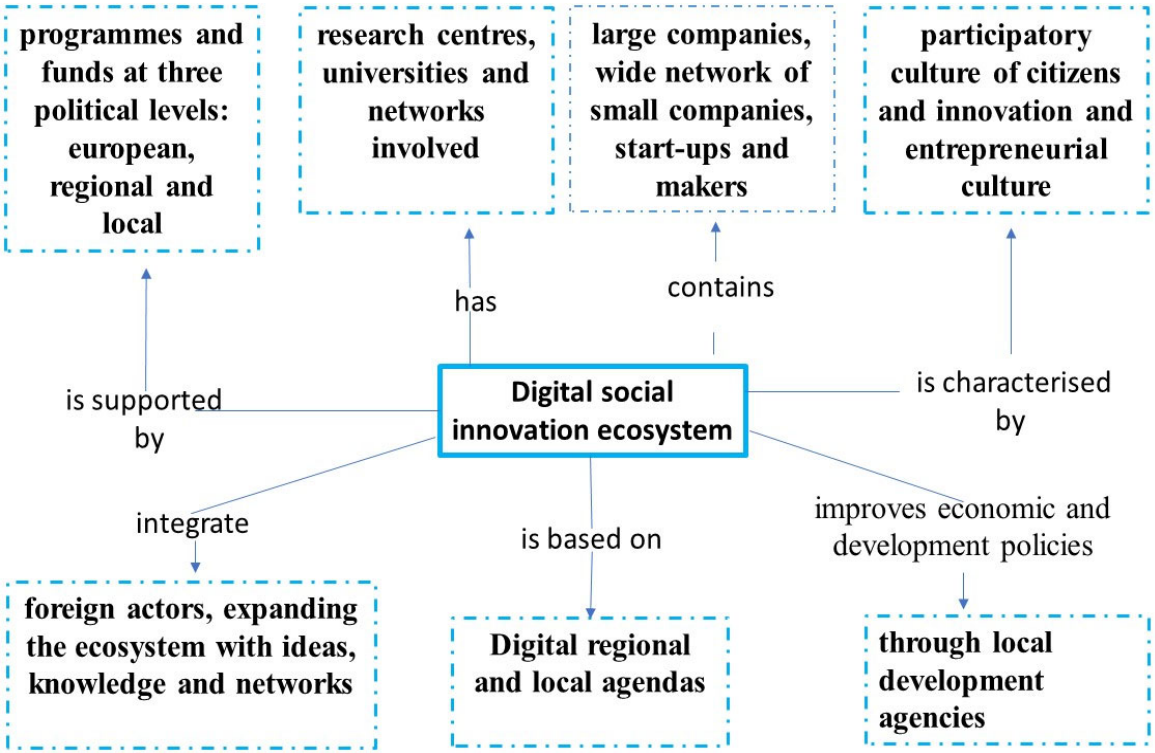
Telecentres

Innovation hubs

Library Living Lab

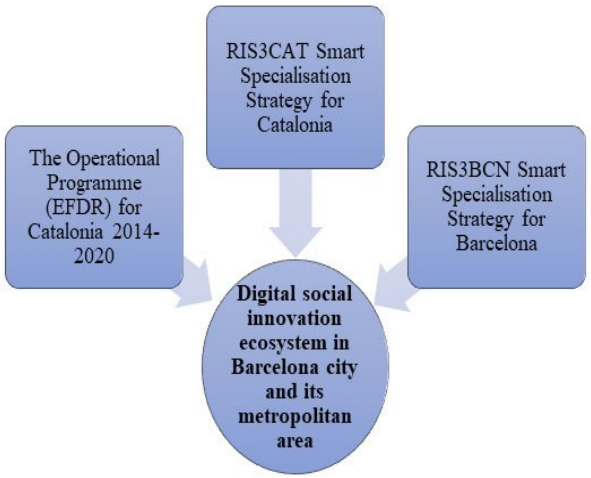


# Typology of Place-Based Innovation Ecosystems
# Case 2




# Barcelona

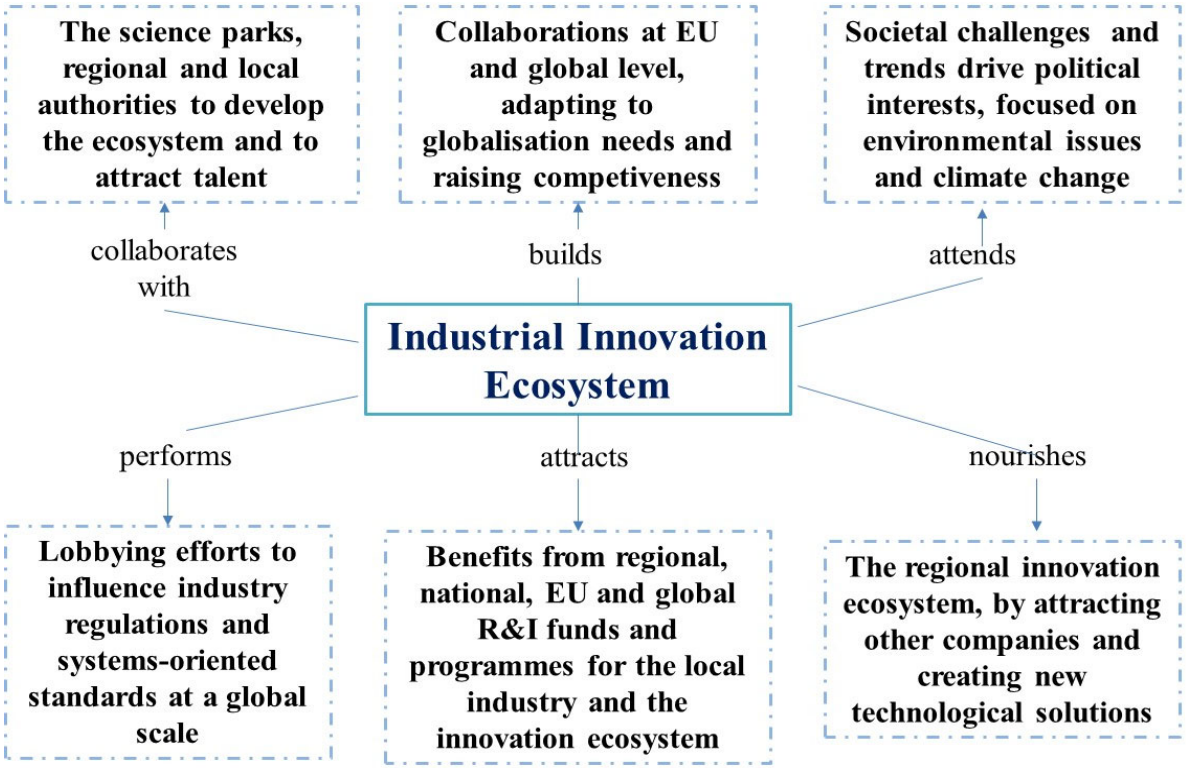
## Digital Social Innovation Ecosystem




**Source: Author's compilation based on data from Rissola and Fàbregas, 2019**

# Typology of Place-Based Innovation Ecosystems

## Case 3




**Source: Author's compilation based on data from Rissola (ed.), Sörvik, Zingmark and Ardenfors, 2019**

**Industrial Innovation Ecosystem**

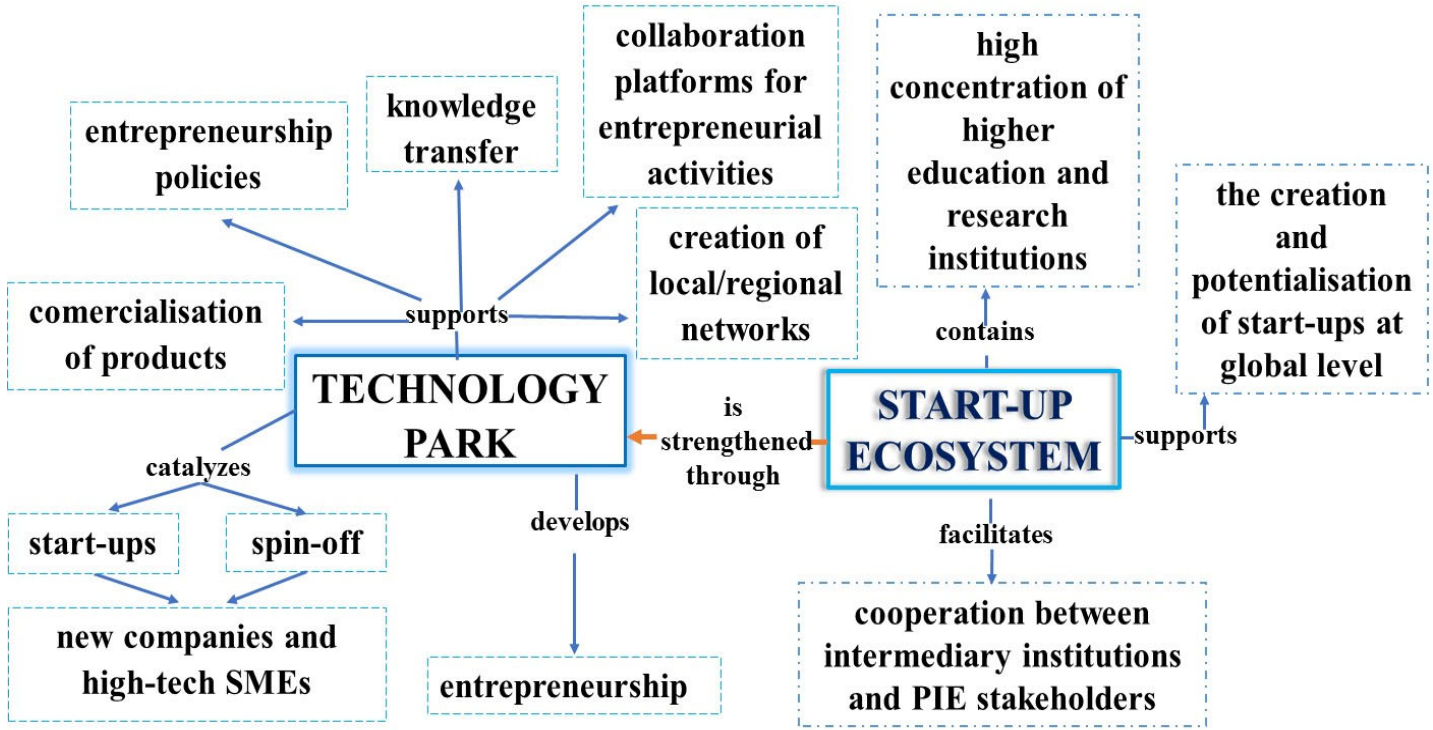
**Gothenburg**

# Typology of Place-Based Innovation Ecosystems

# Case 4

## Ljubljana

**Start-up Innovation Ecosystem**




**Source: Author's compilation based on data from Bučar and Rissola, 2018**

# Typology of Place-Based Innovation Ecosystems

## Case 5

**Innovation District Ecosystem**

### Main actors

**Universities**

- Harvard University
- Massachusetts Institute of Technology
- Northeastern University
- Boston University

**Non-profit organization, public office and co-working spaces**

- Non-profit Accelerator Masschallenge
- Mayor's Office of New Urban Mechanics (MONUM
- Cambridge Innovation Centre (CIC) and Venture Café

**Municipalities**

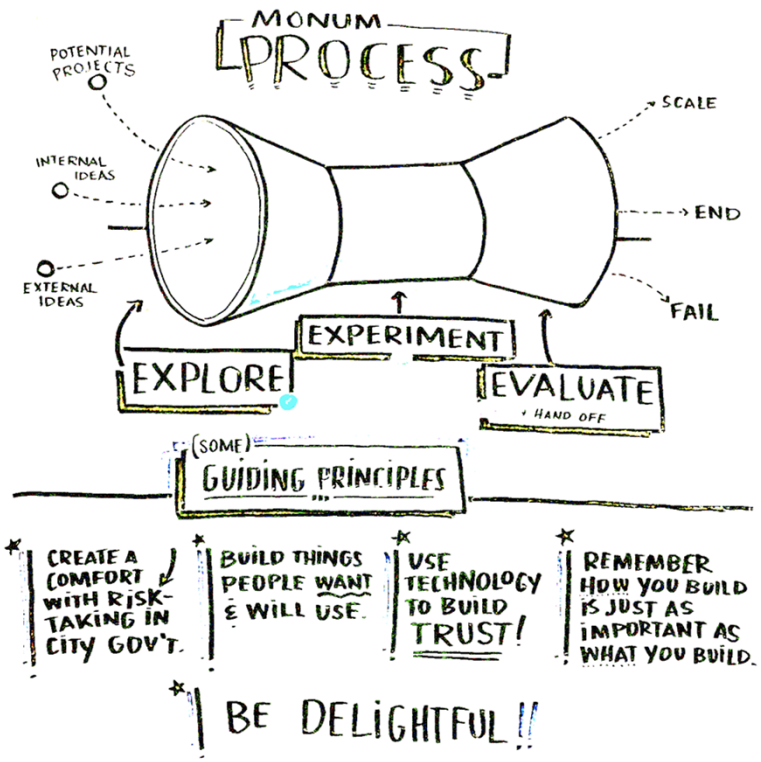
- Boston
- Cambridge

**Boston-Cambridge (USA)**

Source: Author's compilation based on data from Rissola (ed.), Bevilacqua, Monardo and Trillo, 2019

# SUCCESS FACTORS

- the quadruple helix model works effectively;
- an entrepreneurial approach emerging from the local governments, eliciting risk taking and bottom up civic participation;
- a fully operational networking structure of some intermediary actors collaborating at multiple-scales;
- local authorities supporting urban regeneration initiatives complementing economic development initiatives.



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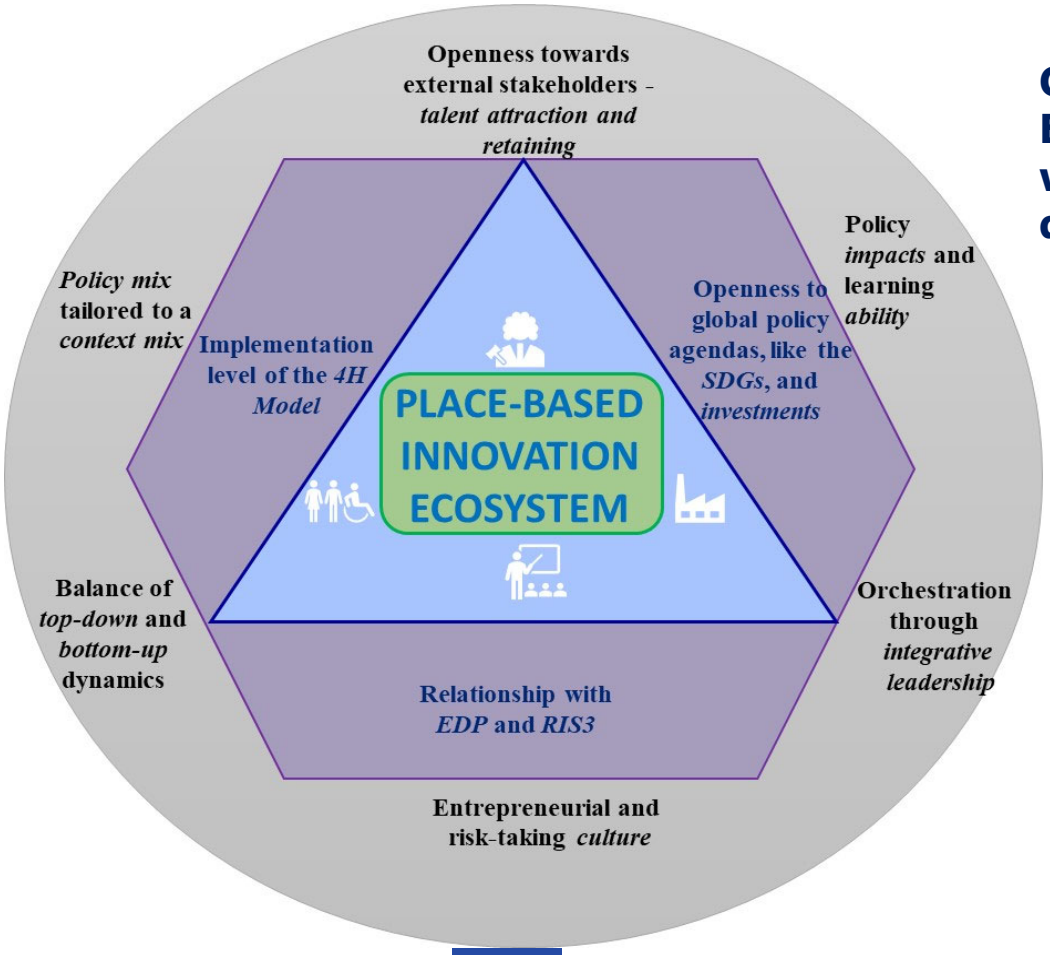
# PROPOSED CASE ANALYSIS MODEL




## Critical System Elements combined with common dimensions of analysis

Source: Author's compilation based on previously discussed findings and approaches

# Main findings

- PIEs are of **high complexity** with **strong individual system properties**, but replicable conditions are relevant for other cases.

- There are **different levels of implementation** of the **Quadruple Helix Model** (4H): *From a traditional Triple Helix (3H) Model, to a transforming or transformed 4H model.*

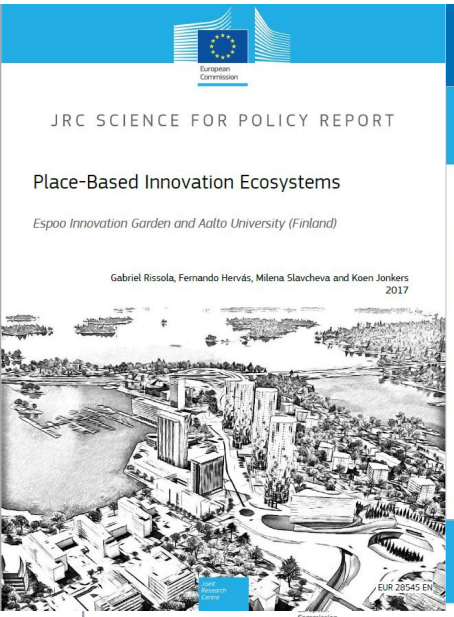
- There are **different levels of interrelation** between the questioned PIEs and **Smart Specialisation** and the inherent **Entrepreneurial Discovery Process** (EDP): *From a very low influence on the ecosystem up to fully related to the relevant processes and dynamics.*

# Main findings

- The **orchestrators** or main **key-players** play an essential role in the PIEs: From a clear orchestrator, to multiple leading actors and up to PIEs with no identified orchestrator or clear leading actor.

- Local, regional, national and international innovation-related **policy agendas** have a relevant impact on the strategic development of PIEs: for example the **UN 2030 Agenda for Sustainable Development**.

- **PIEs** are **significantly dependent** on talent attraction and retaining, on an entrepreneurial and risk-taking culture, as well as on the presence of R&I infrastructure, and on compatible and complementary system stakeholders.





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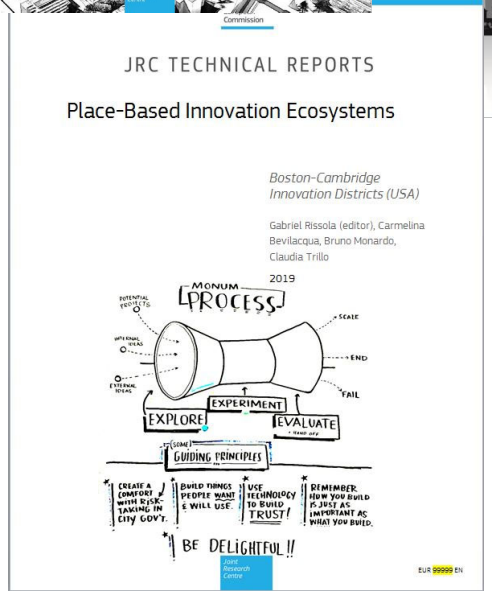


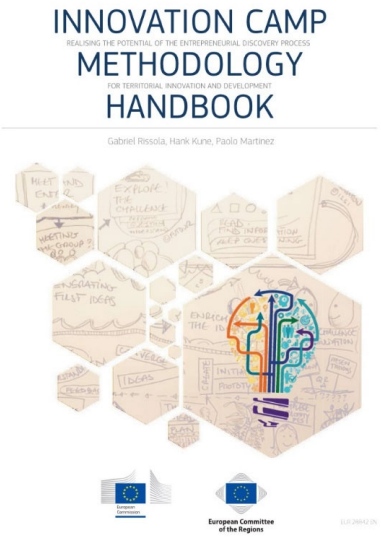



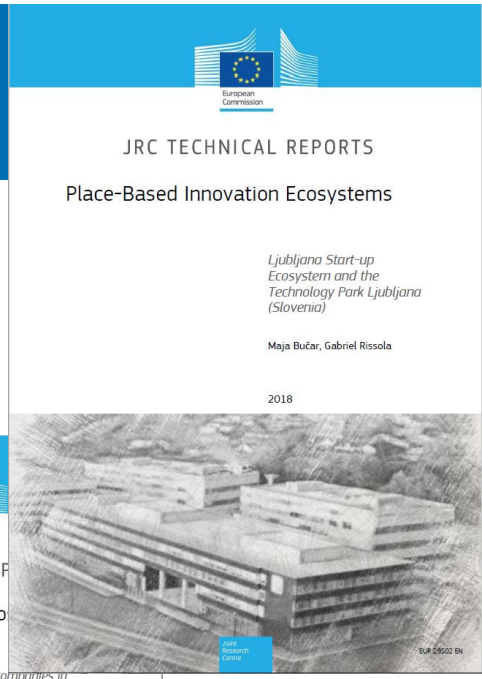


# THANK YOU!