



CIRCIE 2019

Challenges for the Islands in the era of the Circular Economy

ESMARTCITY: Smart Cities as Innovation Ecosystems

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*Industrial Systems Institute – ATHENA Research and
Innovation Center*

Under the auspices of



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ESMARTCITY Identity

A project funded under Interreg Mediterranean

Focus on “Enabling Smarter City in the MED Area through Networking”

10 partners coming from 6 Mediterranean countries





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Smart City

- Investment in human and social capital
- Utilization of traditional and modern infrastructure
- Leading to
 - Sustainable economic growth
 - High quality of life
 - Management of natural resources
 - Participatory governance
- Balance between economic, social and environmental demands



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Problem Statement

- Smart City enabler technologies are mature (-ing)
 - Embedded devices
 - Ubiquitous networking infrastructure
 - Service Oriented Architecture
 - Internet of Things (IoT)
 - Artificial Intelligence (AI)
- Smart City Paradigm is largely technology pushed
- Adequate end user pull is missing



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Problem Statement

- Smart City pilots did not create adequate end user pull
- Many **proprietary** solutions / installations / pilots dedicated to a **sole** application / service
- How become more **open** and **standardized**?
- How to manage the **maintenance** of relevant infrastructure after the pilot?



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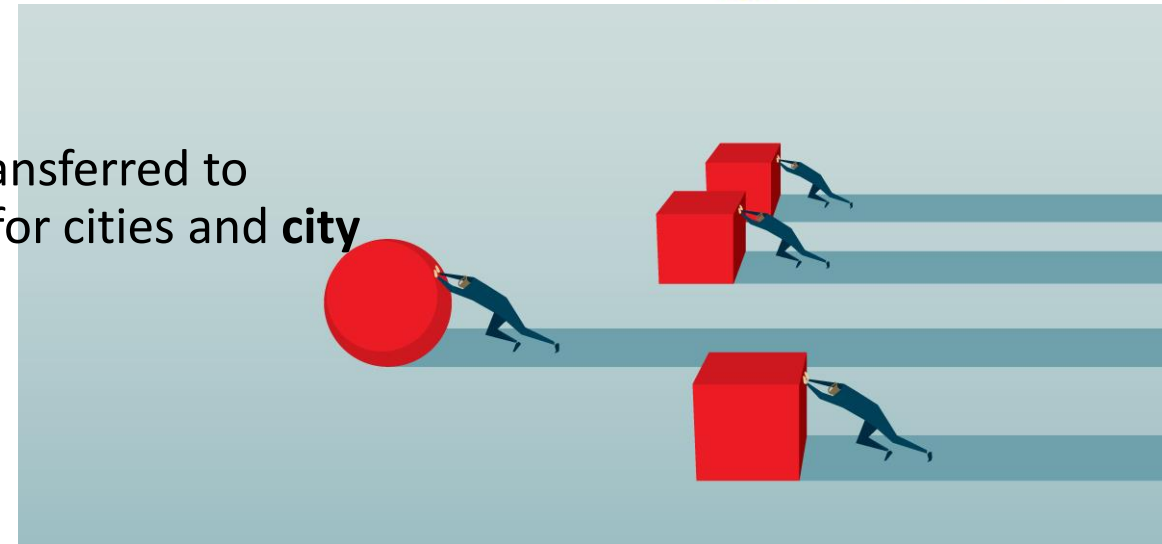
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ESMARTCITY Approach

- View MED cities as **innovation ecosystems** and not mere end users of the Smart City paradigm
- Enhance **end user pull** for Smart City application and services through **pilot testing**
- Smart City relevant **experimentation** and **co-creation**
- Appropriate **strategies** for **Innovation Policy Change** transferred to policy makers in the area helping avoid **vendor lock-in** for cities and **city lock-in** for vendors



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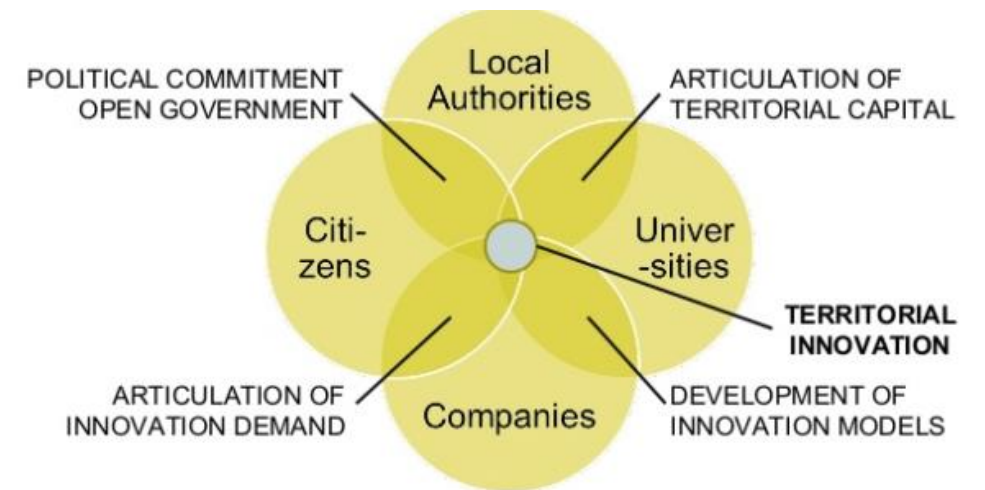
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Involve the Quadruple Helix of Actors

- All stakeholders need to be involved
 - Government / policy makers
 - University / academia
 - Enterprise / SMEs / Clusters
 - Civil Society / general public
- Networking is essential



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Smart City Application Areas

- Innovation Economy
 - Intelligent sectoral clusters, intelligent districts, incubation
- City Infrastructure and Utilities
 - Smart transport / mobility / parking, smart grid, safety / environmental monitoring
- Governance
 - Public services to citizens, participatory processes, monitoring / measurement
- ESMARTCITY Focuses on
 - Intelligent districts and smarter energy, and smarter lighting
- Our expected results
 - Upgrade existing innovation clusters with reference to Smart City paradigm
 - Create a Smart City networked community in MED
 - Improve MED territorial policies enhancing city ecosystem innovation capacities



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Pilot Demonstration

- Smarter Energy Efficient Buildings in
 - Milan, Italy
 - Region of Western Greece
 - Palmela, Setuban and Sesimbra, Portugal
- Smarter Public Lighting in
 - Pescara, Italy
 - Lyon, France
 - Huetor Tajar and Argon, Spain
 - East Ilidza, Bosnia Herzegovina



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Policy Change

- Green Paper on Innovation Policy Change
 - How to address infrastructure maintenance and upgrade?
 - How to ensure installed infrastructure will be up and running after the intervention?
 - How public tenders should be affected?
 - How Smart City context as well as installed infrastructure is taken into consideration in future tenders?
- Capacity building interventions towards policy makers
- Transfer activities towards Smart City networked community
- Smart City Protocol



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Thank you for your attention



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Thursday 28 - Friday 29 March 2019, Nicosia, Cyprus

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