Driving up Regional Cooperation for Renewables in the European Union

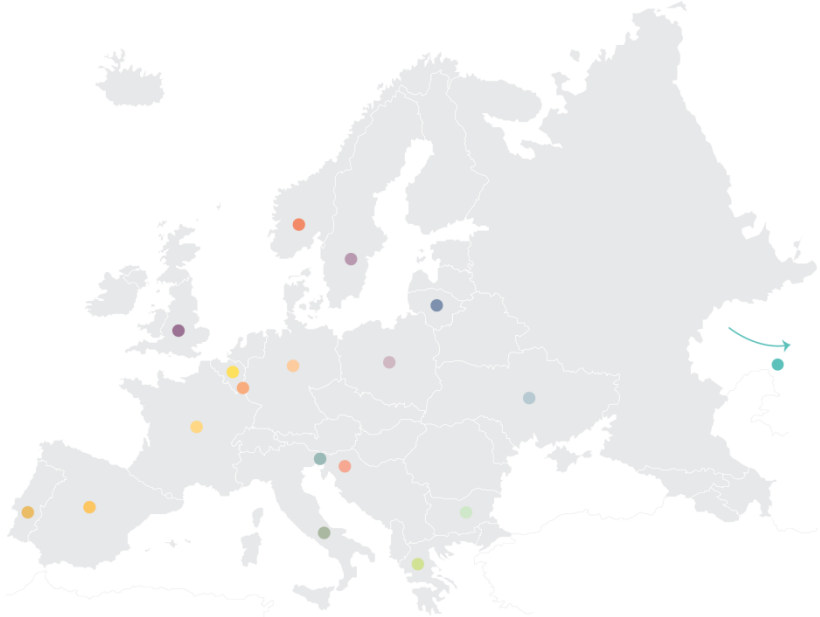
Representation of Lower Saxony to the EU, Rue Montoyer 61, Brussels

Monday 25 April 2016

Paula Peiró

100% RENEWABLES World Future Council HEINRICH BÖLL STIFTUNG EUROPEAN UNION REGIONS FOR GREEN ECONOMY

1000 YEARS, 1000 SMART



PORTUGAL

- Ubiwhere
- University of Minho
- Schneider
- Guimarães
- Associação Comercial e Industrial de Guimarães
- Simbiente
- CIM Ave
- BicMinho
- ARRIVA
- Transurbanos
- VITRUS Ambiente
- MEO

LUXEMBOURG

- IntraSoft

EUROPEAN

- Eunic

SLOVENIA

- Koper

SPAIN

- ITENE
- UVAX
- Wellness Smart Cities
- Gaia
- Burgos
- Mediobanca
- Fundación Endesa
- EREN

CROATIA

- Sdewes
- Dubrovnik

UK

- H3B Media
- Urban Foresight

EU/ JAPAN

- EU Japan

BELGIUM

- AVERE
- POLIS Network
- Finnova
- Ceps
- Urban Foresight

NORWAY

- Hafenstrom
- Tinn
- HSN

ITALY

- Cei
- Trieste

UKRAINE

- Kharkiv
- Kharkiv University

FRANCE

- CEA
- Systematic
- Paris (Saclay)

POLAND

- Comarch
- University of Cracow
- Tarnow

GREECE

- Rhodes

LITHUANIA

- Kaunas Science and Technology Park

GERMANY

- Wuppertal Institute
- Abc
- Fraunhofer Institute
- Bamberg
- SAP
- SIEMENS

SWEDEN

- Sweco

BULGARIA

- Burgas

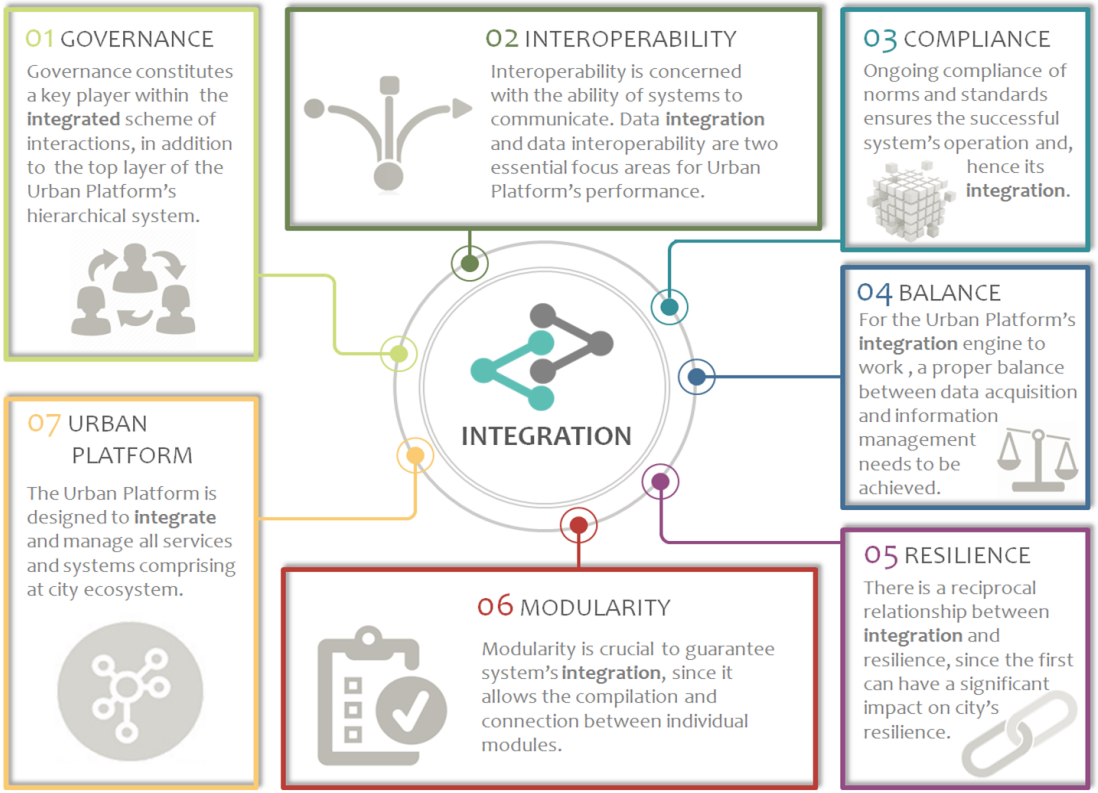
Partner | City Partner (Follower) | Lighthouse | International city | Supporter

Hallmarks of Success
1000SMART
Topics 01
Scale-up & integration
Open innovation/ open to innovation
Well-being & social welfare orientation
Adapted to new requirements
Urban life facilitator
Economic growth oriented
Public services offering
Open & interactive
Strategy for creation of inclusive & sustainable cities
Exchange of smart solutions
Citizen participation promotion
Focused on energy efficiency, economy, sustainability, urban mobility, health & education, technology and innovation
Companies involved 02
Open mind
Human approach
Spirit of innovation
Continuous improvement
Time & effort optimization
Competence & coordination
Robust communication
Technology-oriented approach
Think globally, act locally
Strategic thinking and linkage
Organizational flexibility
High competitiveness
Creation of synergies
Individual & team autonomy
Environment of trust
Learning ability
Places 03
Safe & visible
Transit points
Effective interaction
Occurrence of activities
Interesting and pleasant
Accessible and utilizable
Ease of access for everyone
Entire community integrated
Well-illuminated and maintained
Public transport interconnections
Idea 04
Visible
Realistic
Compatible
Attractive & useful
Original & inspiring
Relative advantage
High rate of utilization
Problem-solving approach
Open to public participation
Creative design/design thinking
Creative, innovative & dynamic
Ability to transform ideas into reality
Internal level 05
Fresh vision
Adaptive planning
Work concurrently
Multi-level planning
Proper planning time
Project status reporting
Solid budget management
Good scope management
Motivation and involvement
Small, cross-functional teams
Technical leadership & excellence
Regular attention to risks & issues
Effective and efficient communication
Resilient and sustainable business model
Nature of the project 06
Competent, motivated and involved people
Project structure with powerful incentives
Guarantee for best results & practices
Growth, sustainability & replicability
Additional resources mobilization
Adapting program to local reality
High quality performance
Continuous improvements
Usefulness for population
Open to contributions
Clear requirements
Quality assurance
Global application
Permanency

Smart cities into Open cities

IrRADIARE
Science for evolution®

1000Smart is an Open network. Open tool.
Open solutions to Open real problems
Procurement network more innovator, so value added and benefit.
Start up opportunities. More real, practical and real city issues due to the Open data.
Access and connection to all kinds of entities and issues.
Theorical studies to practical studies
Meeting of supply and demand
Innovation procurement.
Effect chain innovation



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Millions of theoric solutions Information accesible → Opportunities → Challenge: innovation procurement → dialogue → Detailed information on what is needed and optimal scale (size and number)

1000 Smart network is a tool to manage the diversity of the open cities
Participative system. Tenders management
Different areas to innovative and dynamic solutions
Interconnection of the areas and their changes. Ex transport
Balance combination

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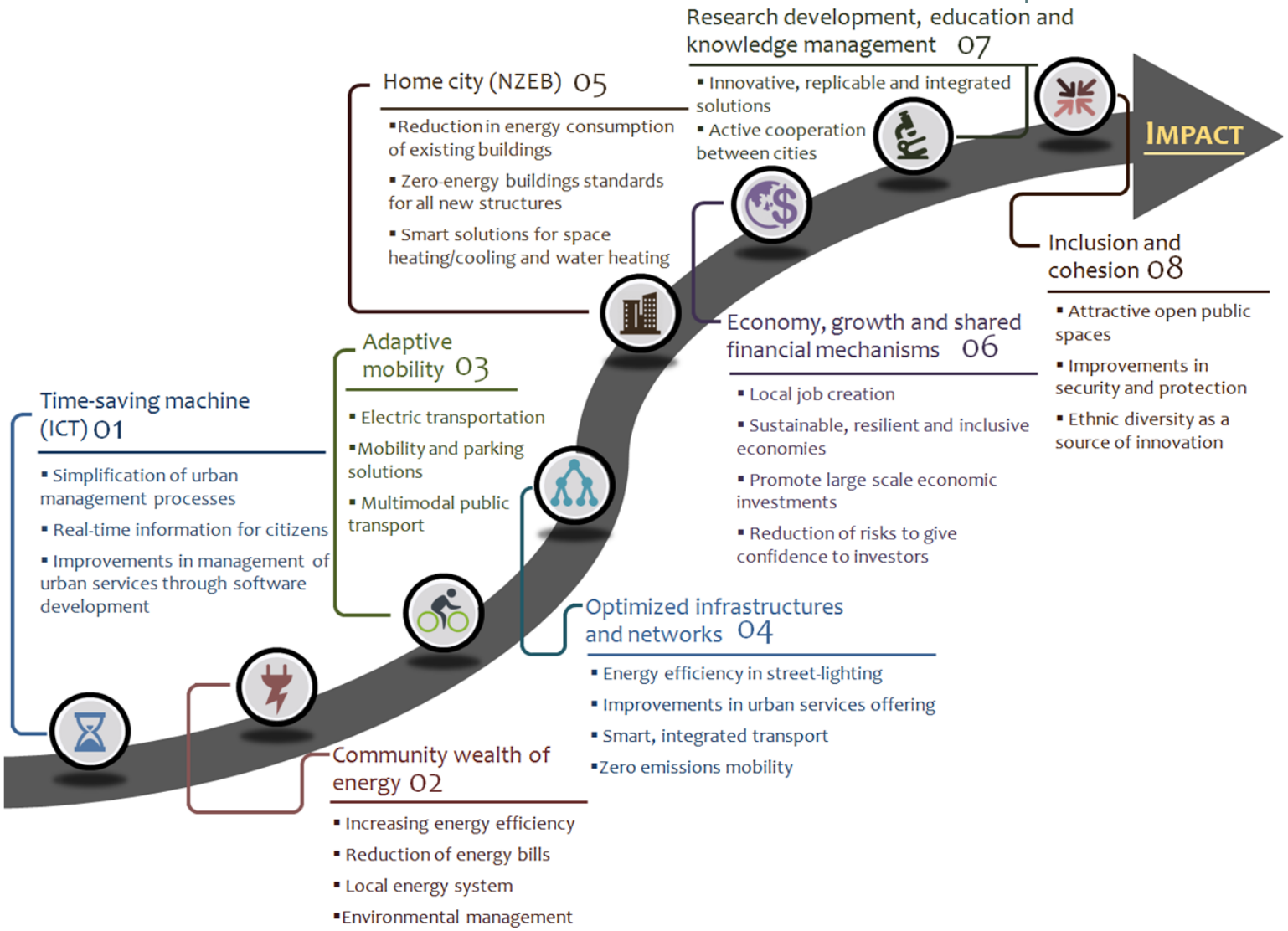


Community Wealth Of Energy

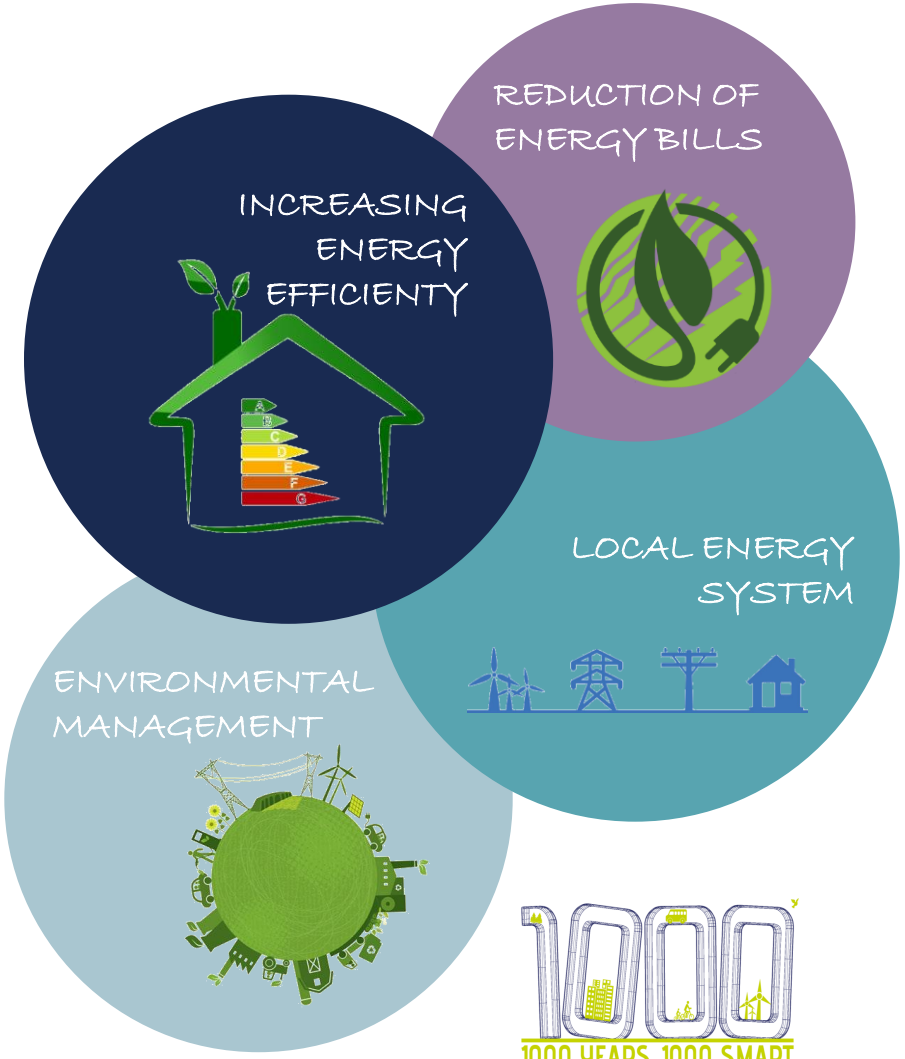
1000Smart Project

Shared energy consumption system → More local intervention → Technological opportunity: **storage** → renewables → efficient spending

Changes of energy supply and demand using storage

Ex. Pool of surrounding buildings.

The storage open a new paradigm with payback opportunity to the use of renewables which produce benefit for resilience and sustainability of the cities.



1000 YEARS, 1000 SMART

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TIME-SAVING MACHINE (ICT)

1000SMART PROJECT

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Simplification of urban management processes

Immediate and real-time information for citizens

Improve the management of urban services throught software development

HOME CITY (NZEB)

1000SMART PROJECT

Reduction in energy consumption of existing buildings

Zero-energy buildings standards for all new structures

Smart solutions for space heating/cooling and water heating

1000Smart Network benefits

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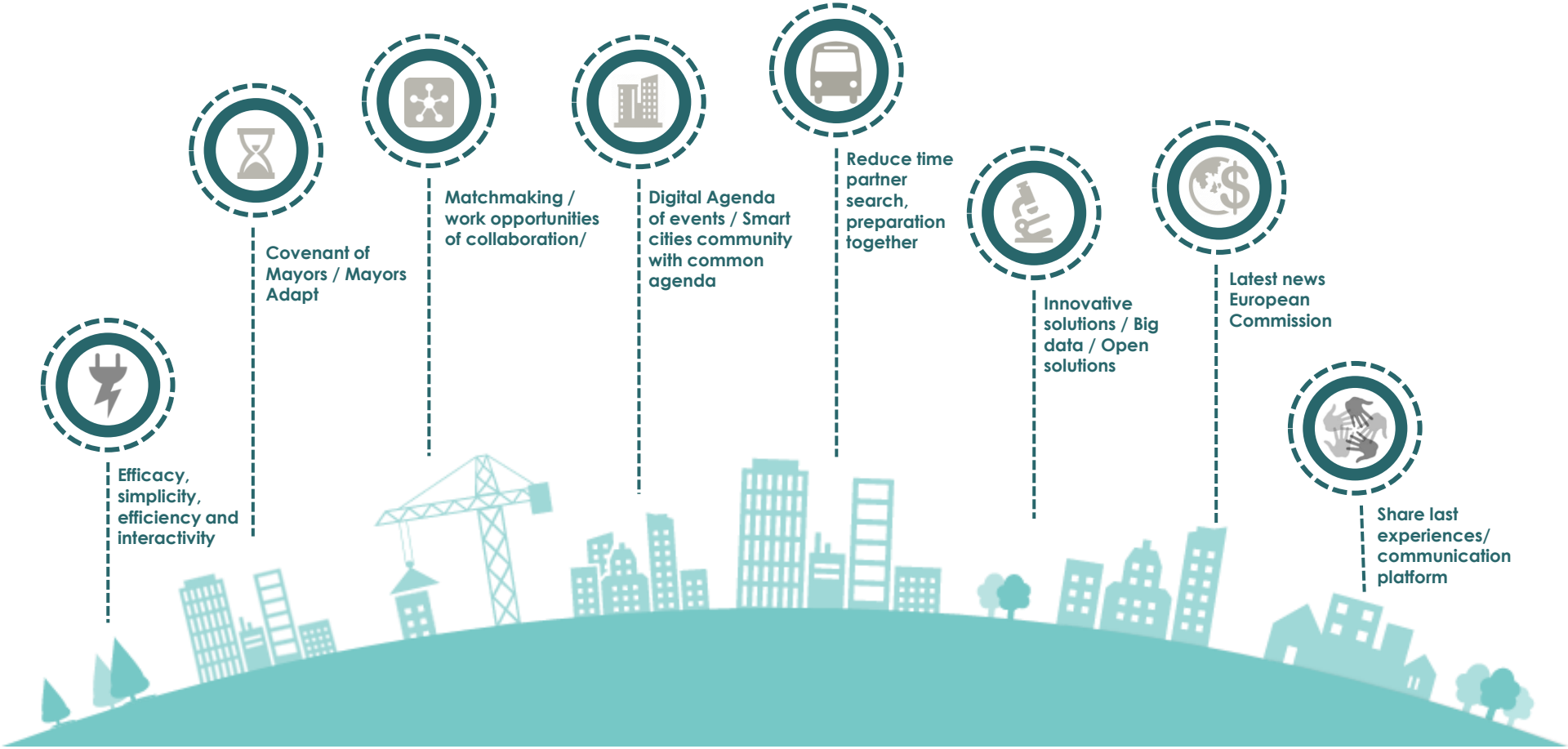

Smart city framework strategy

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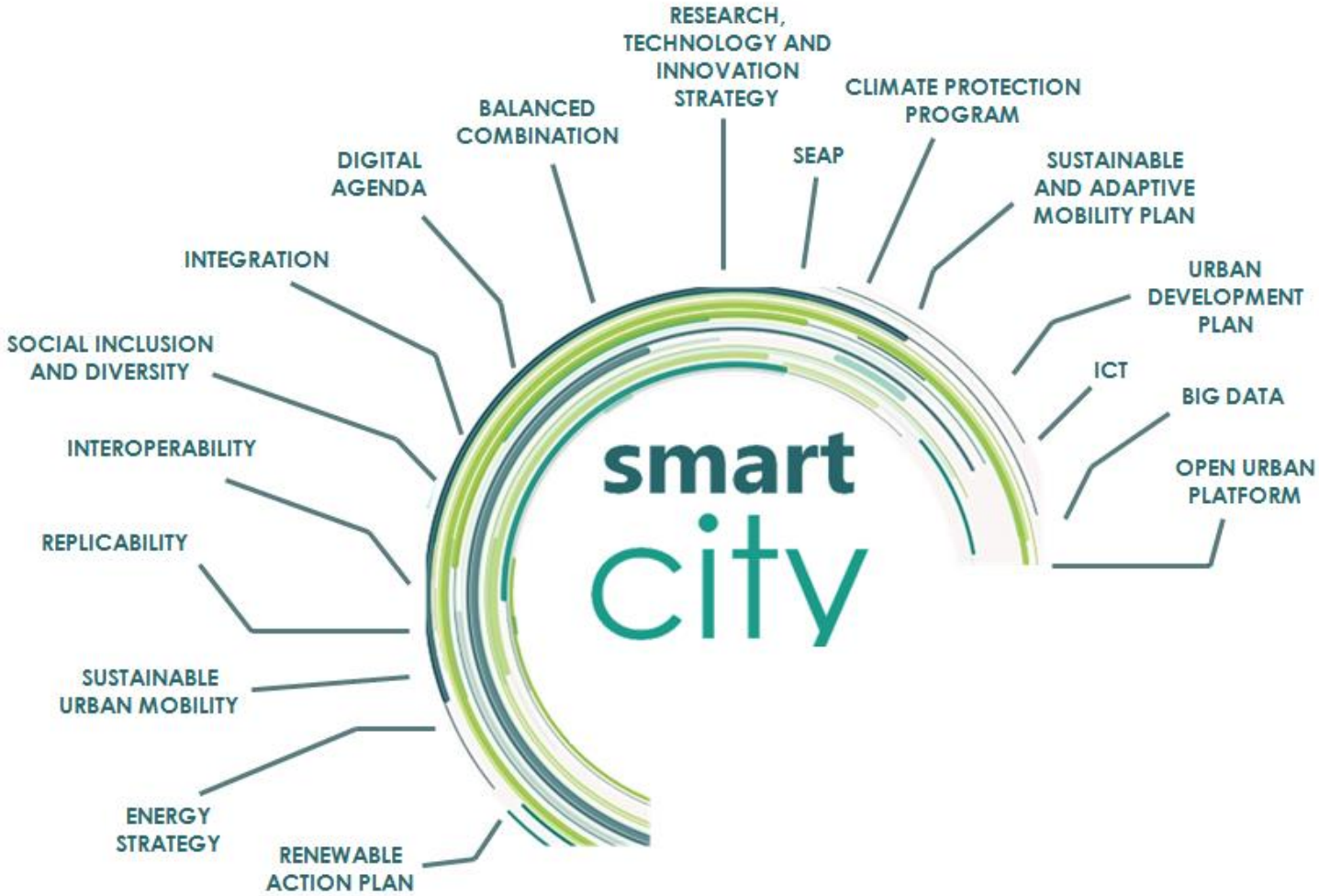

Thank you!

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