



The cities as innovation hubs – a challenge for planning

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Innovations - more than only challenges for cities

- **Cities as proper creative environment (interactions) for innovations**
 - not just containers for innovative activities but actively involved in the generation of new ideas, new organizational forms and new enterprise
- **Cities as substance (target) for innovations**
 - product innovation (quality of life, living preconditions)
 - processual innovations (urban metabolism + urban development incl. urbanization)
 - Substantive innovations (city as real socio-ecosystem)
- **Innovations as part of core quality and source of dynamics of urban environment**
 - Urban dynamics as the result of tension between different innovation dynamics
 - Innovations as the core or new urbanity



Innovations as the core of NEW URBANITY

New urbanity - generic quality of the cities and main attractor of cities and urban areas is based on the shift:

- from the freedom of choice "TO USE" based on DENSITY OF RESOURCES
- to the freedom "TO JOIN AND SHARE" based on DENSITY OF NETWORKS
- from the proximity to THE VARIETY OF RESOURCES
- to the PROXIMITY TO THE KNOWLEDGE (see as well: Landry, 2015)
- from urbanity as the INTERACTIONS given by CONCENTRATION
- to the new urbanity as SYNERGIES as given by INTEGRATION



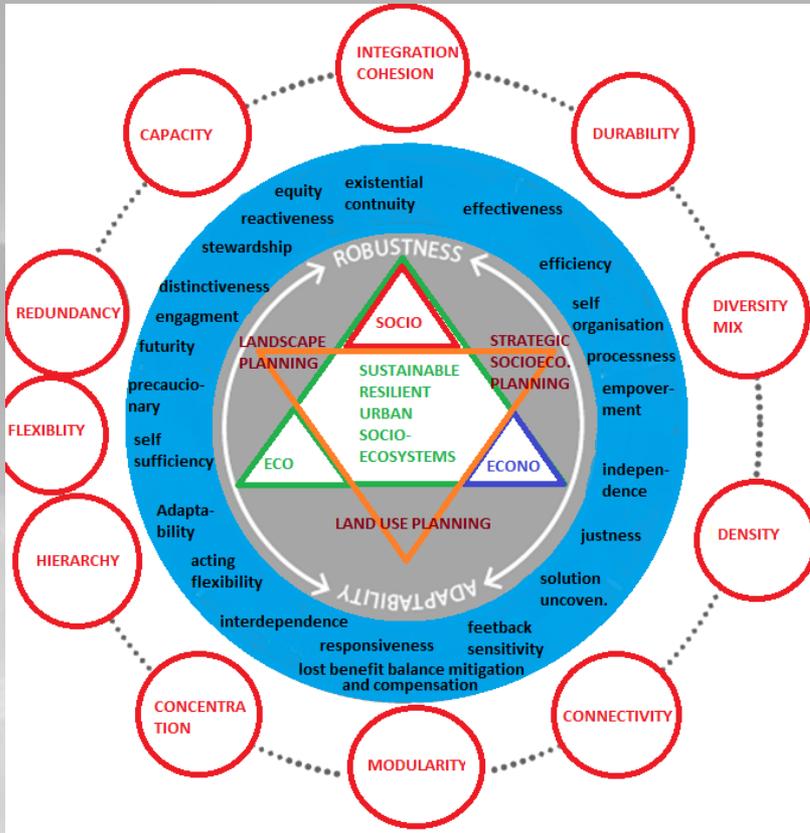
Cities as innovations hubs - DIMENSIONS OF INTEGRATION

- very complex in diversity of their functional and structural elements, intensity of interactions and interdependences (**substantive /problem/interdisciplinary integration**)
- increasingly dynamic (development + metabolism) with growing tension between innovation cycles in its subsystems (**temporal integration**)
- very open and fuzzy gravitation and radiation centres for innovations (from city to urban functional areas) (**spatial integration**)
- determined by multiple stochastic factors across whole hierarchy from global up to very local scale (**hierarchical integration**)
- exposed to multi-actors decisions and growing number of ex-territorial actors (**conceptual/value integration**)
- depending on access to diverse resources e.g. knowledge resources (**resource integration**)
- containing several layers of development uncertainty (**processual integration**)



PLANNING RESPOND – CONCEPT OF THE CITIES AS URBAN INNOVATIONS HUBS based on 3 DIFFERENT DYNAMICS

1. STRUCTURAL AND FUNCTIONAL dynamics based on ROBUSTNES AND ADAPTABILITY as the pillars of urban resilience and sustainability (environmental, social, economical)

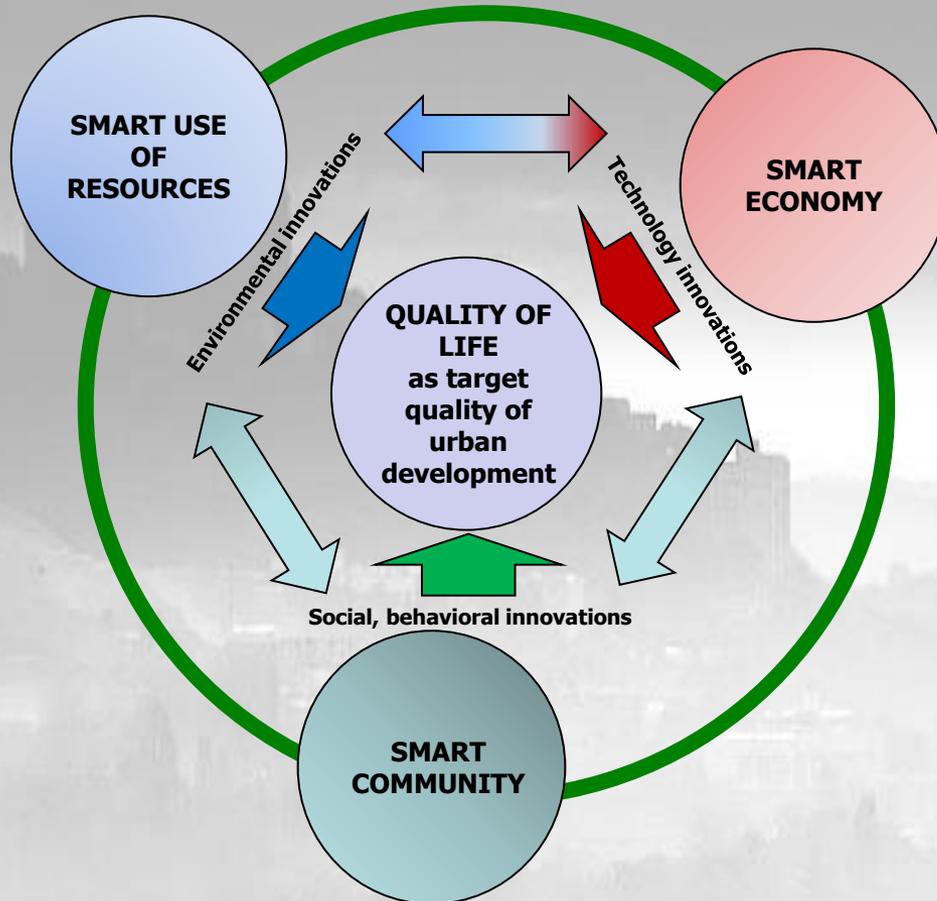


Core concept - ECO CITY concept build on INNOVATIONS WITHIN THE FRAME OF DEFINED QUALITY – „living within environment“.

The ultimate goal is to eliminate carbon waste, to produce energy entirely through renewable resources, to merge the city harmoniously with the natural environment, to support economic growth, reducing poverty



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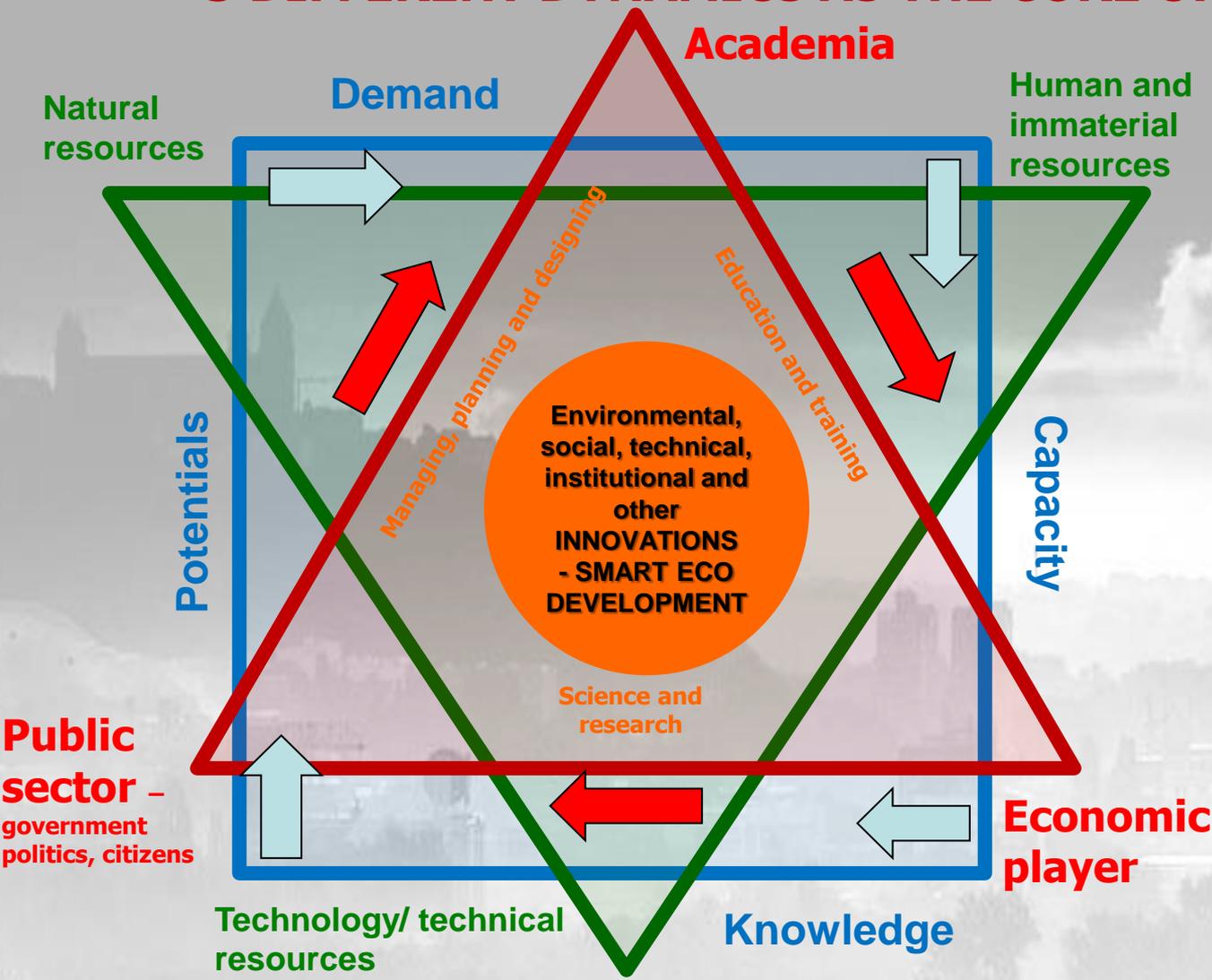


2. **QUALITY CHANGE DYNAMICS** based on **QUALITY OF URBAN LIFE** as common denominator for **harmonizing different types of INNOVATIONS** (technological, insitutional, organisational, behavioural....)

The core concept - **SMART CITY** based on different types **INNOVATIONS** using advanced technologies, approaches and tools **WITHIN THE FRAME OF DEFINED RESOURCES** allowing efficient use of all kinds of resources, including electronic data collection sensors to supply information which is used to manage assets and resources efficiently.



3 DIFFERENT DYNAMICS AS THE CORE OF CONCPETS

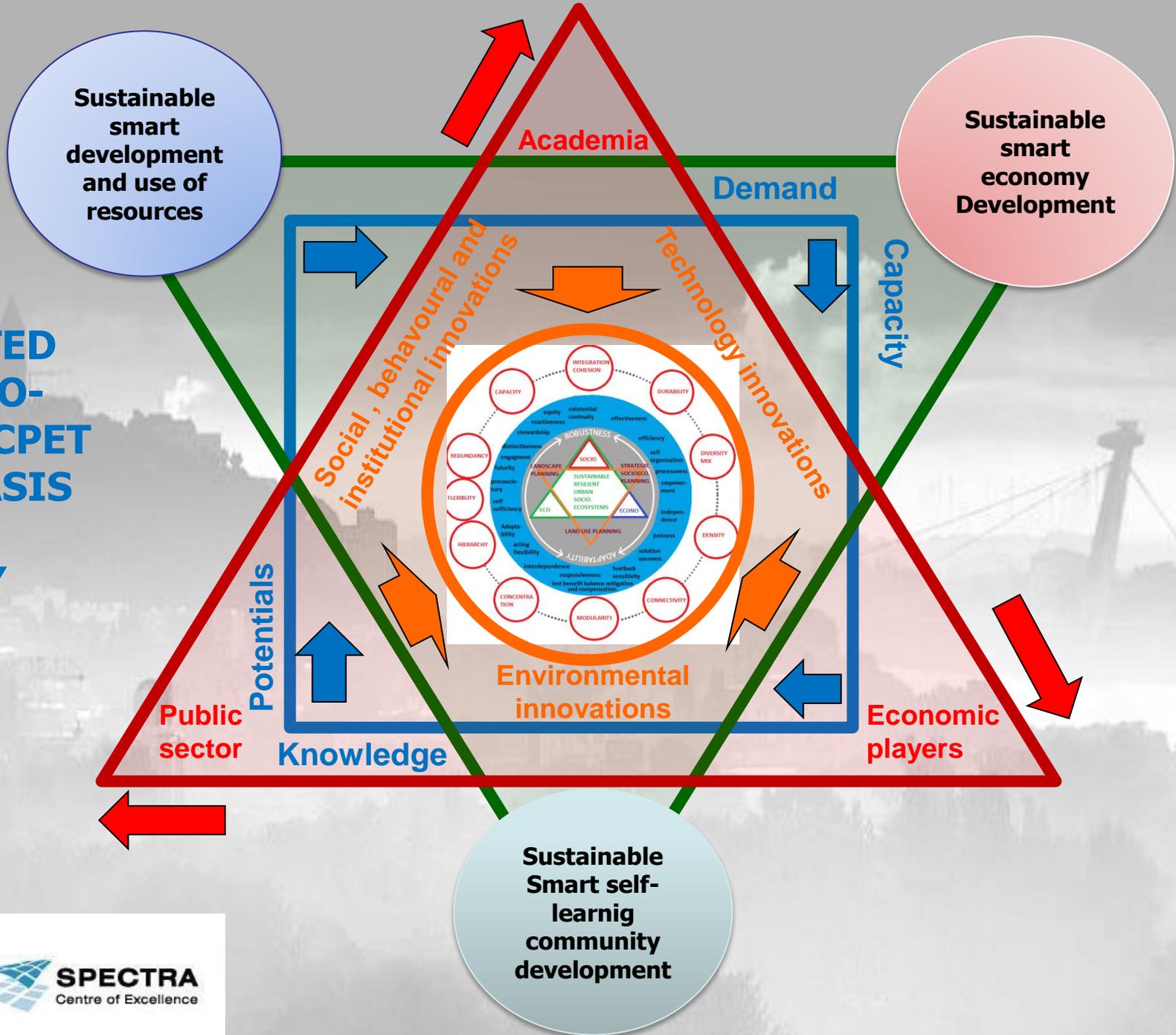


3. RELATIONAL/ TRANSITIONAL DYNAMICS based on **INNOVATIONS** allowing the transition between **RESOURCES DOMAINS**

The core concept - **MULTILEVEL POLYCENTRIC GOVERNANCE IN TRIPLE HELIX** as the bases for innovative environment framing the **transition of resources domains and self-learning**



INTEGRATED SMART ECO-CITY CONCPET AS THE BASIS FOR NEW URBANITY



3 DOMAINS OF INNOVATIONS as the core of INTEGRATED SMART ECO-CITY CONCPET AND NEW URBANITY

1. The innovations in the **domain “development and use of resources”** are widening the concept of eco-city as defined by the Eco-city concept extending the concept of ecosystem architecture and ecosystem services
2. The innovations **domain “capitalisation of resources”** is widening the concept of Smart city towards new quality of urbanity as freedom „to share“ based on density of networks the crucial quality and the main factor of attractiveness is creative environment determined by proximity to knowledge resource (see e.g. (M. Deakin, 2012)) beyond just implementation of technology innovations
3. The **“social innovation” domain** builds up on domain concept of Smart governance concept reflecting multilevel architecture and multi-actors involvement build on institutional and social innovations for smart eco-regions governance



The key steps towards the quality of Smart Eco-City:

- ❑ **TRIPLE HELIX** = partnership and systematic collaboration between public sector (community and governance), academia (R&D) and economy (players/entrepreneurs)
- ❑ **SMART TERRITORIAL PARTNERSHIP** (synergies within agglomeration, FUA, urban-rural partnership, ppp...)
- ❑ **CONCEPTUAL INTEGRATION OF INNOVATIONS ON THE BASIS OF QUALITY OF LIFE** = development and use of an integrated system of technologic, environmental social, behavioural, institutional and other innovations towards improvement of life and economic development of the city and region





Thank you, ENJOY THE DAY!



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