



INTERNATIONAL RESEARCH NETWORK FOR LOW CARBON SOCIETIES

8TH MEETING

6-7 September 2016

Bergische Universität Wuppertal, Wuppertal, Germany

THE TRIPLE DIVIDEND OF URBAN RESILIENCE TRANSITION

Sustainable Development, Mitigation, and Adaptation

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Bundesministerium
für Umwelt, Naturschutz,
Bau und Reaktorsicherheit



**Wuppertal
Institut**

Urbanization Challenges: >50% population, 75% natural resources, 80% energy supply, 75% carbon emissions

Development Challenges : poverty, sprawl, inequality, pollution, security, depletion/access of resources.....

Climate Challenge : multiply effect on urban challenges, direct threat slow/rapid on-setting risk, mitigation





International Policies opportunities: UN SDGs, UNISDR Sendai, UN-Habitat HIII, UNFCCC Paris Agreement.

Consumption/Production opportunities: from linear to circular, integrated, metabolic

Urban Momentum opportunities: city initiatives, individual and in networks (C40, 100 res cities, etc)

Urban Knowledge opportunities: capacity of creativity, innovation, knowledge creation and exchange



**Sustainable
Development**

Urban Resilience Transition:



Climate Change



Urbanization

THE TRIPLE DIVIDEND



**Sustainable
Development**

**Development
+
Sustainability**

**Urban Resilience Transition:
Integrating for innovation
Generating co-benefits**



Urbanization

**Mitigation
+
Adaptation**



Climate Change

**Specific local urban
challenges**



GOAL 8

GROWTH EMPLOYMENT

PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

SUSTAINABLE DEVELOPMENT GOALS
More at sustainabledevelopment.un.org/sdgspropos



GOAL 9

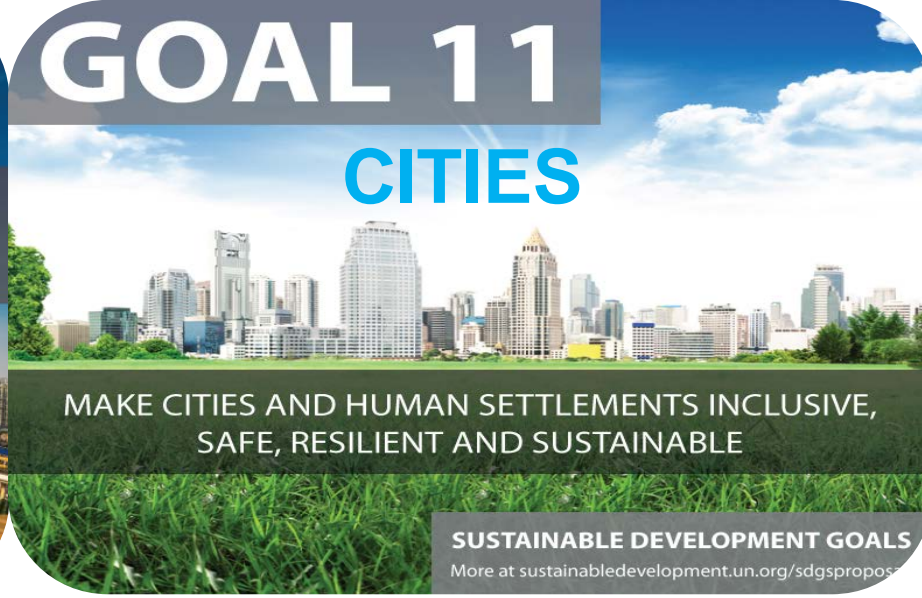
INFRASTRUCTURES

BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION

SUSTAINABLE DEVELOPMENT GOALS
More at sustainabledevelopment.un.org/sdgspropos



SUSTAINABLE DEVELOPMENT GOALS



GOAL 11

CITIES

MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

SUSTAINABLE DEVELOPMENT GOALS
More at sustainabledevelopment.un.org/sdgspropos



GOAL 12

SCP

ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

SUSTAINABLE DEVELOPMENT GOALS
More at sustainabledevelopment.un.org/sdgspropos



GOAL 13

CLIMATE

TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS*

Acknowledging that the United Nations Framework Convention on Climate Change is the primary international, intergovernmental forum for negotiating the global response to climate change

SUSTAINABLE DEVELOPMENT GOALS
More at sustainabledevelopment.un.org/sdgspropos

SDGs

Paris Agreement

Decision Paragraph 40:

with the objective of considering how to enhance linkages and create synergy between, inter alia, mitigation, adaptation, finance, technology transfer and capacity-building, and how to facilitate the implementation and coordination of non-market approaches;



Legally Binding

Agreement Article 6:

Parties recognize that some Parties choose to pursue voluntary cooperation in the implementation of their NDCs to allow for higher ambition in their mitigation and adaptation actions and to promote sustainable development and environmental integrity.



New Urban Agenda

SUSTAINABLE URBAN DEVELOPMENT FOR SOCIAL INCLUSION AND ENDING POVERTY

SUSTAINABLE AND INCLUSIVE URBAN PROSPERITY AND OPPORTUNITIES FOR ALL

ENVIRONMENTALLY SUSTAINABLE AND RESILIENT URBAN DEVELOPMENT

BUILDING THE URBAN GOVERNANCE STRUCTURE: ESTABLISHING A SUPPORTIVE FRAMEWORK

PLANNING AND MANAGING URBAN SPATIAL DEVELOPMENT



We anchor our vision in the concept of cities for all, referring to the equal use and enjoyment of cities, towns, and villages, seeking to promote **inclusivity** and ensure that all inhabitants, of present and future generations, without discrimination of any kind, are able to inhabit and produce just, **safe, healthy, accessible, resilient,** and **sustainable** cities and human settlements, as a common good that essentially contributes to **prosperity and quality of life.**



PRACTICE 1

Morro Moravia Medellin



Co-benefits: coupling mitigation, adaptation, risk reduction and development

Co-creation: design and implement the project in a open and participatory manner

Ownership: re-appropriation of the territory by the communities



Lost in translation: **differences in languages to be bridged**

Time conflicts: **diverging time perception**

Space conflicts: **urban rural divide, cross scale issues**



Knowledge brokerage: **open and dynamic exchange and dialogue**

Plan as a process: **planning shall be resilient**

The rise and death of the planners: **planers are not demiurges but process facilitators, translators**



PLANNING AND DESIGN FOR URBAN RESILIENCE

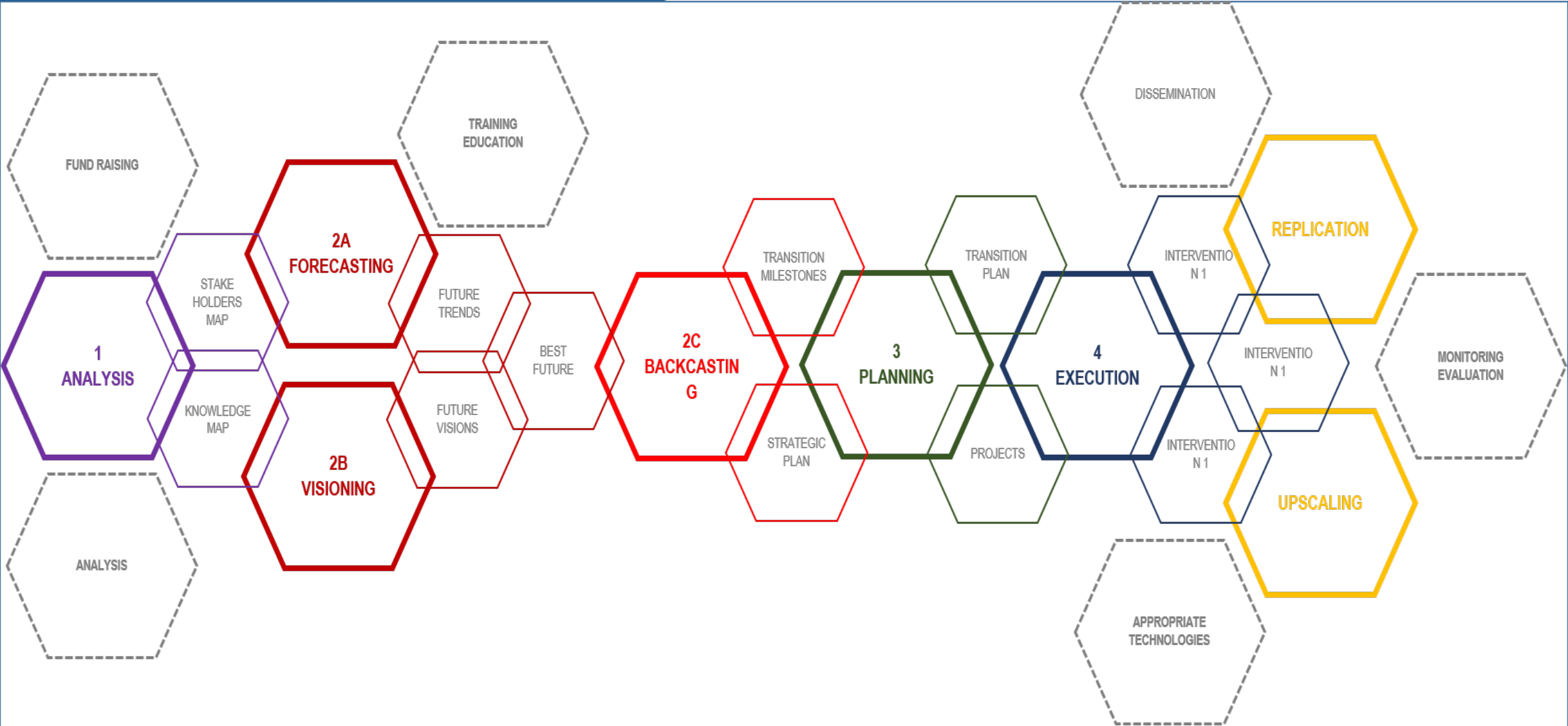
EVALUATION OF URBAN RESILIENCE

KNOWLEDGE AND CAPACITY

RESEARCH-PRACTICE DIVIDE

INFORMED POLICY/DECISION MAKING

NATIONAL-LOCAL HARMONIZATION





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THANK YOU

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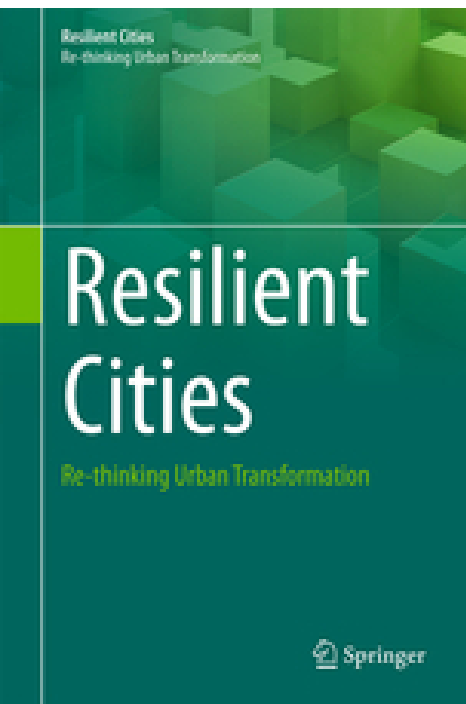
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CALL for PAPERS

Open call for Article and Case Studies (**DEADLINE 1 October 2016**)

BK1 – Urban Resilience for Risk and Adaptation Governance: lessons from the practices.

BK2 – Urban Resilience: Methodologies, Tools and Evaluation.

BK3 – Planning urban resilience: Strategies, Frameworks and Integrated Planning Approaches for the Urban Resilience Transition.

BK4 - Contribution of Intangible Cultural Heritage and Traditional Knowledge to Urban Resilience.

BK5 – Circular Urban Metabolism: Generating Co-Benefits Through Urban Resilience Transition.

BK6 – Participation and Governance for Urban Resilience: Exploring Co-Evolution and Co-Design Approaches.

BK7 -Climate Change and Healthy Cities – Approaching to a More Sustainable, Resilient and Smart City.