



**Conference 2011**



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National Contact Point for  
Research Programmes  
of the EU



**Let's Construct Europe's Future  
With Innovative Buildings and Infrastructures  
*Construction and Societal Challenges***

**Radisson Blu Centrum Hotel - WARSAW  
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# Urban Europe - A Joint Programming Initiative

## Addressing the Grand Challenge of Urbanisation

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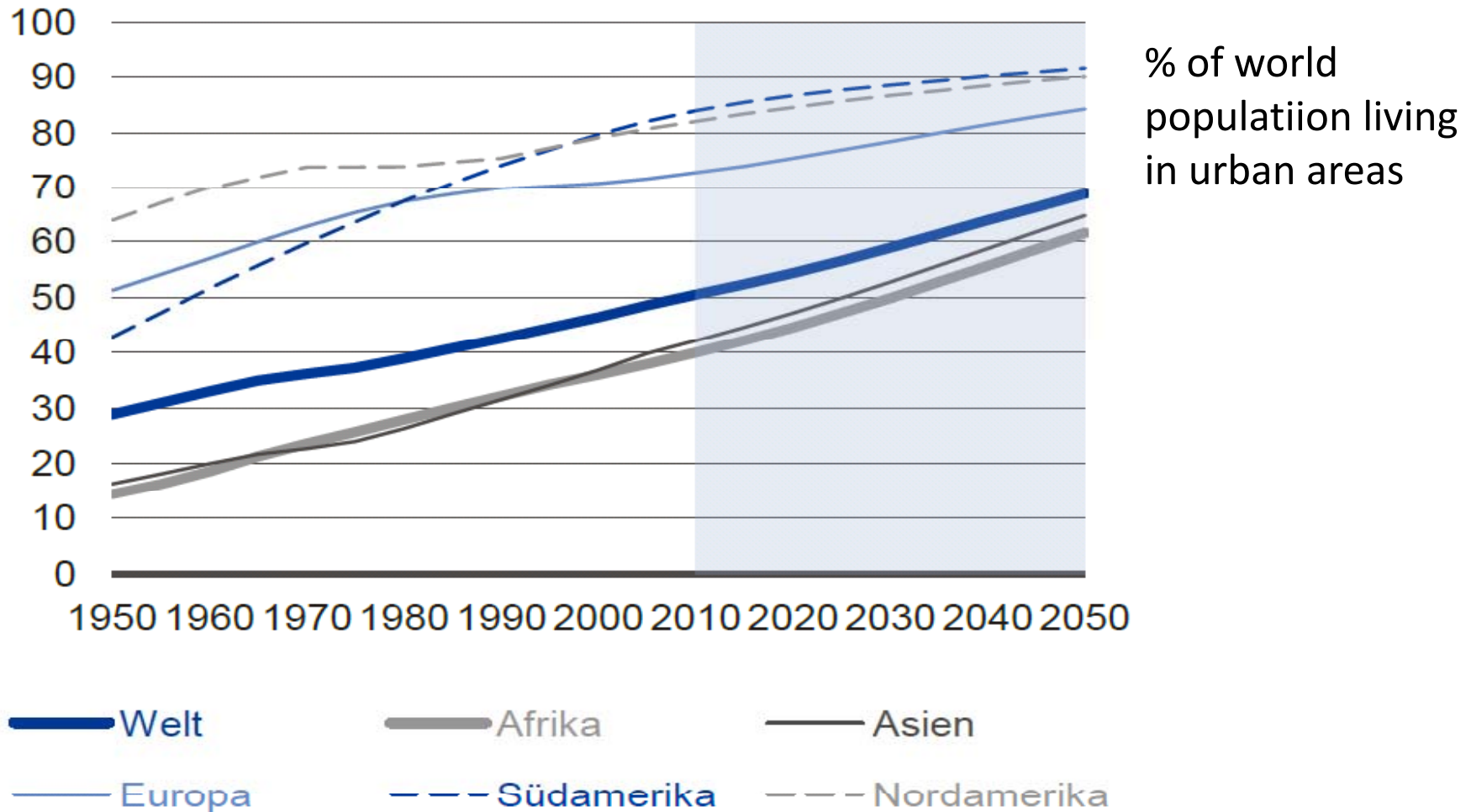
## What is Joint Programming?

- Commission Communication of 17 July 2008
- Hypothesis: Current funding instruments are not effective for creating a European Research Area
  - EC Communication July 2008: ERA-NETs have not lead to harmonisation of national R&D strategies and programmes (budgets were too small)
- New focus on grand challenges which cannot be solved on level of individual countries
- Member States shall pool resources in creating joint transnational R&D programmes

# Joint Programming Initiatives

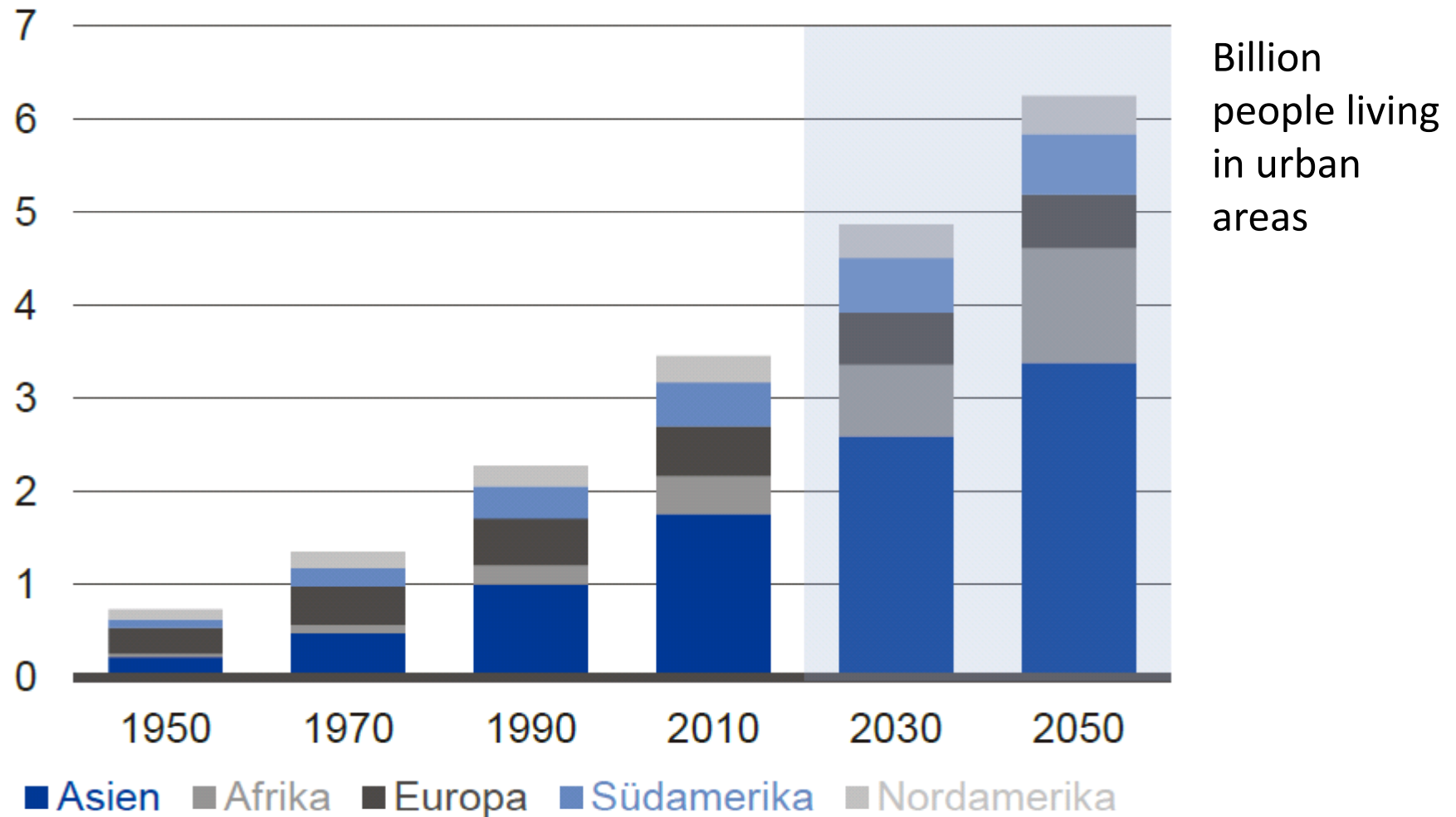
- Council decision of 1-2 December, 2008
  - Joint Programming as policy process, driven in variable geometry by the European Member States (MS)
  - Establishment of a Council working group (GPC)
  - Invitation for MS to propose topics of grand challenges and offer to coordinate joint programmes
- Joint Programmes:
  - „Neurodegenerative Diseases“ as a pilot theme
  - 2 “waves“ of JPI themes (3 + 6); currently 10 themes in total
  - JPI Urban Europe adopted by Council on 4 May 2010 as part of the 2<sup>nd</sup> wave

# Urbanisation as a Grand Challenge



Quelle: UN Population Division

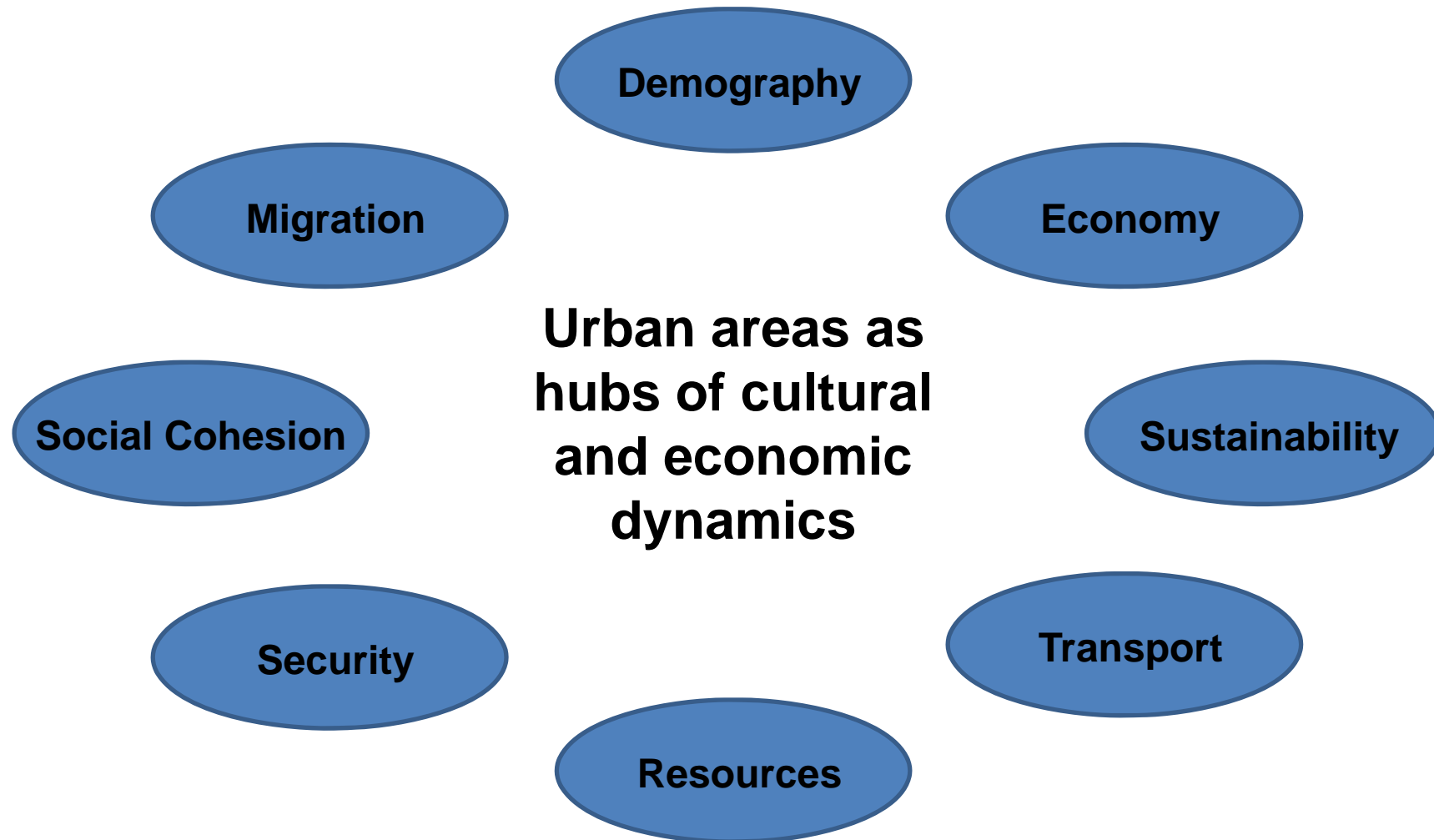
# Global Distribution of Urbanisation



Quellen: UN, DB Research

Already today more than 50% of all urban dwellers live in Asia!

# Challenges of Urbanisation



## Vision of the JPI Urban Europe

**“Global Urban Challenges**

**– Joint European Solutions”**

# Thematic Focus of the JPI Urban Europe

Managing complexity through a human centred approach



- **complementarity** regarding existing technology-driven and sectoral approaches
- **driven by social science**, not technology - driven
- **long term perspective** on research and innovation (10 years, and more)
- **create input** for radical innovation, technology development and implementation strategies



# Mission of the JPI Urban Europe

## Urban Europe

- represents a forward-thinking and **long-term oriented**, coordinated research and innovation initiative to shape urban development in times of a global shift.
- is an **integrative, interdisciplinary and horizontal approach across the interfaces of economy, society, mobility, and ecology**, serving society by raising public awareness and acceptance, and consequently putting expertise into practice.
- promotes intensive **interactions between researchers, policy makers, business and civil society**, resulting in an innovative and impact-oriented approach.
- endeavours to **become recognisable as the EU entry point** open to all relevant stakeholders with an interest **in urban development**.

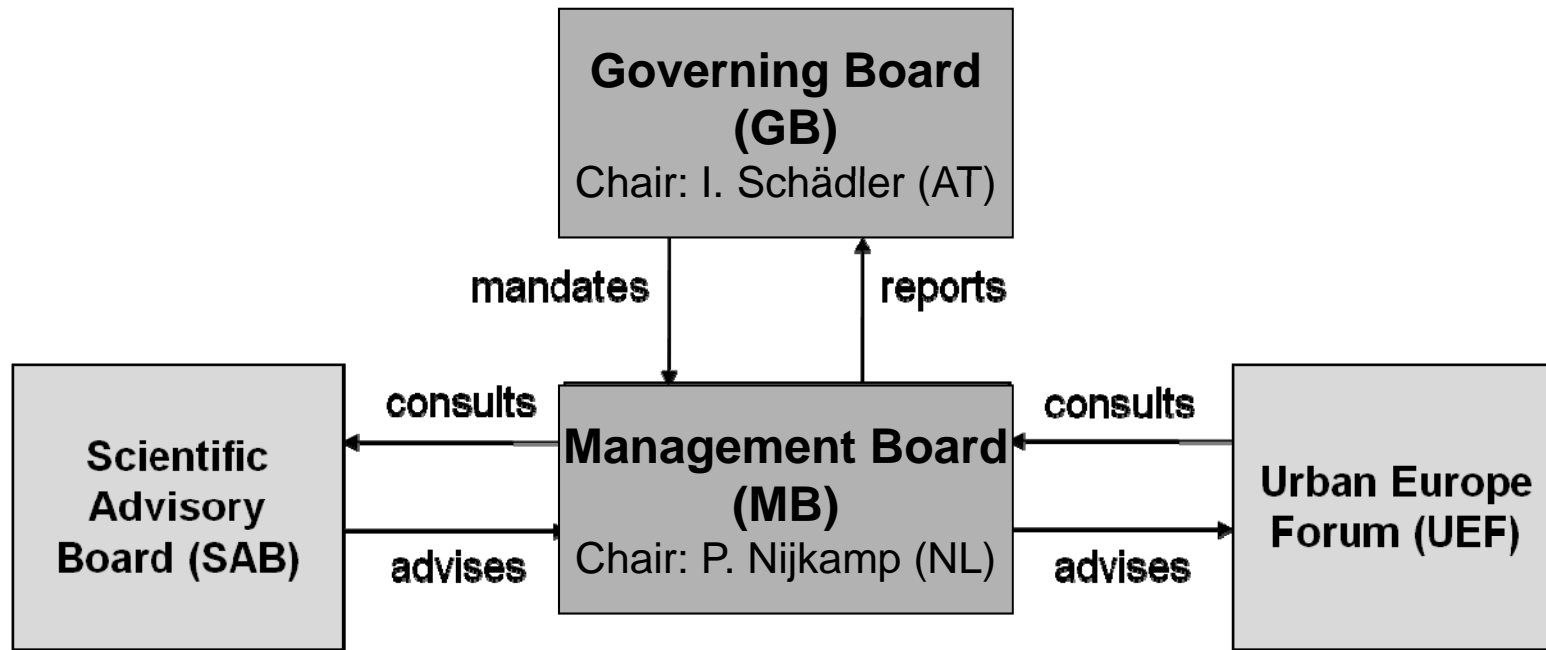
# Objectives of the JPI Urban Europe

- To establish a **world class research environment** in Europe for all “City of the Future” developments;
- Based on relevant scenarios and patterns, to **create input for radical innovation, technology development and implementation strategies**;
- To design **tools, models and concepts** for technology assessment and dissemination as well as for urban governance and urban management
- To develop **policy recommendations** for the European Union, its Member states and cities

# Budgets and Funding Instruments

- The JPI Urban Europe is likely to become the largest funder of urban-related R&D in Europe
- Pilot Phase: 2012 - 2013, Implementation Phase: 2014 – 2020
- Themes will evolve from fundamental to more applied research over the years
- Implementation instruments:
  - Databases and exchange of information
  - Alignment of national R&D programmes
  - Trans-national joint calls
  - Collaborative R&D programmes of the Urban Europe Research Alliance

# Governance Structure



Participants: 16 Member States and Associated States (in alphabetical order): Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and Turkey

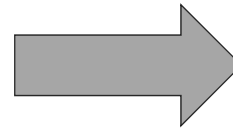
# Strategic Research Framework and Pilot Phase

## Role of Urban Europe SRF

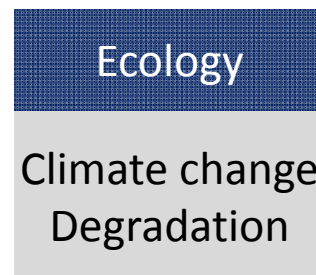
- To define the mid to long term thematic scope of Urban Europe research
- To identify the main research themes
- To set the frame for specific implementation measures as well as for the development of research roadmaps and programmes

# Strategic Research Framework – Process

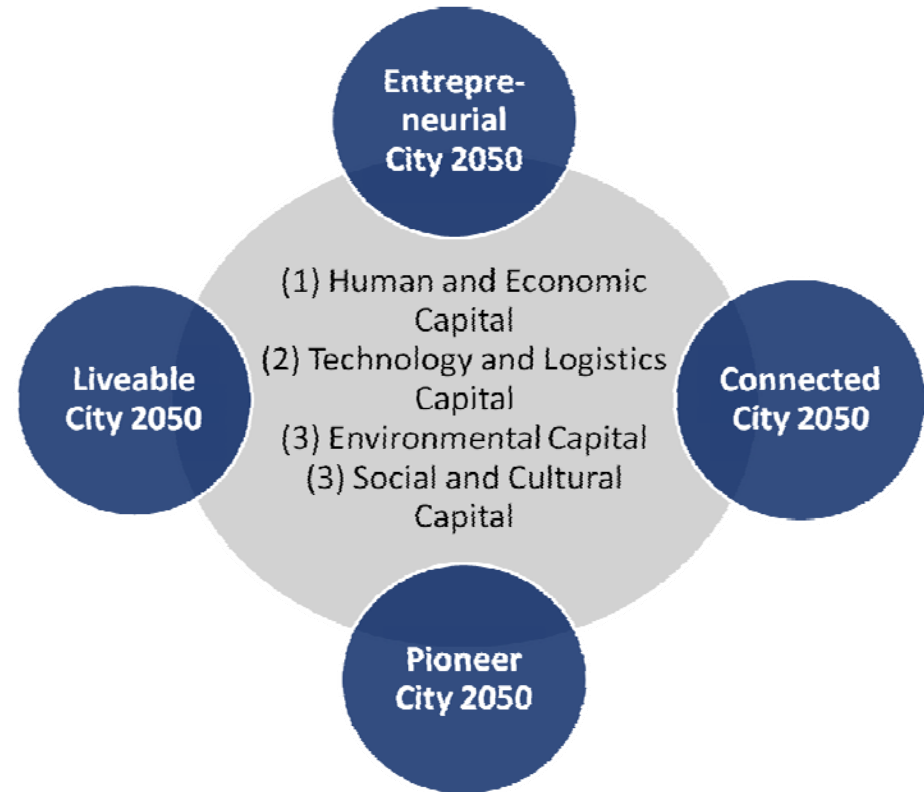
**4 pillars**  
representing challenges



**4 integrated city images**  
representing research demands

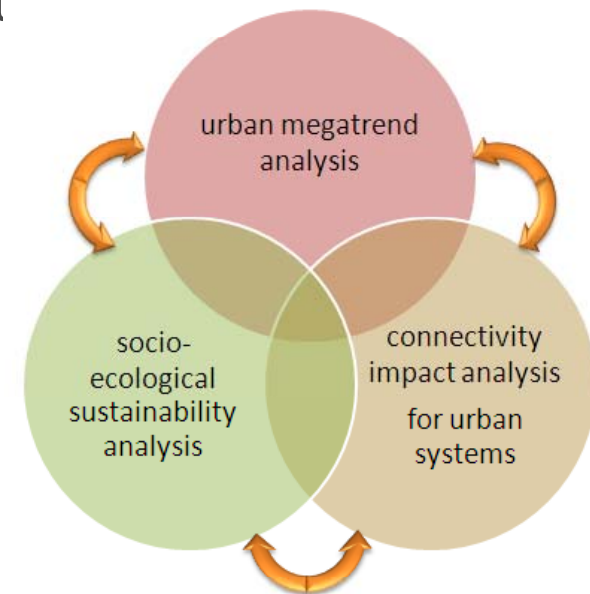


Urban Europe Vision & Mission



# Strategic Research Framework - Architecture

- What are the prominent demographic, economic and technological megatrends that are decisive for the future of urban systems?
- What are new developments and policies in mobility, logistic and land use that are needed to create vital and attractive cities and networks of cities in the decades to come?
- Which ecological and social constellations have to be met and implemented in order to shape sustainable and balanced long-run urban development patterns (including energy systems) in Europe?

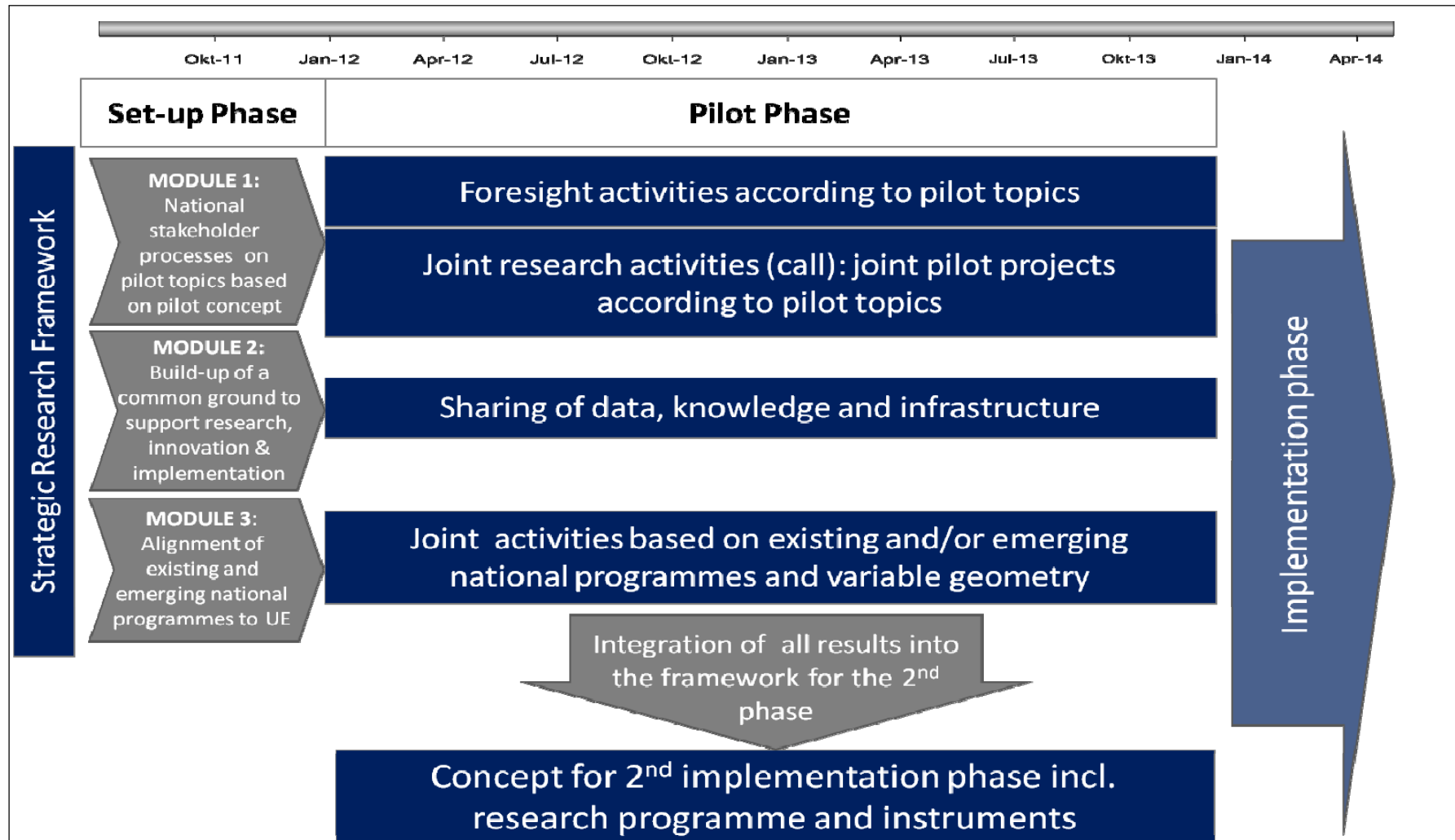




# Objectives of the Pilot Phase

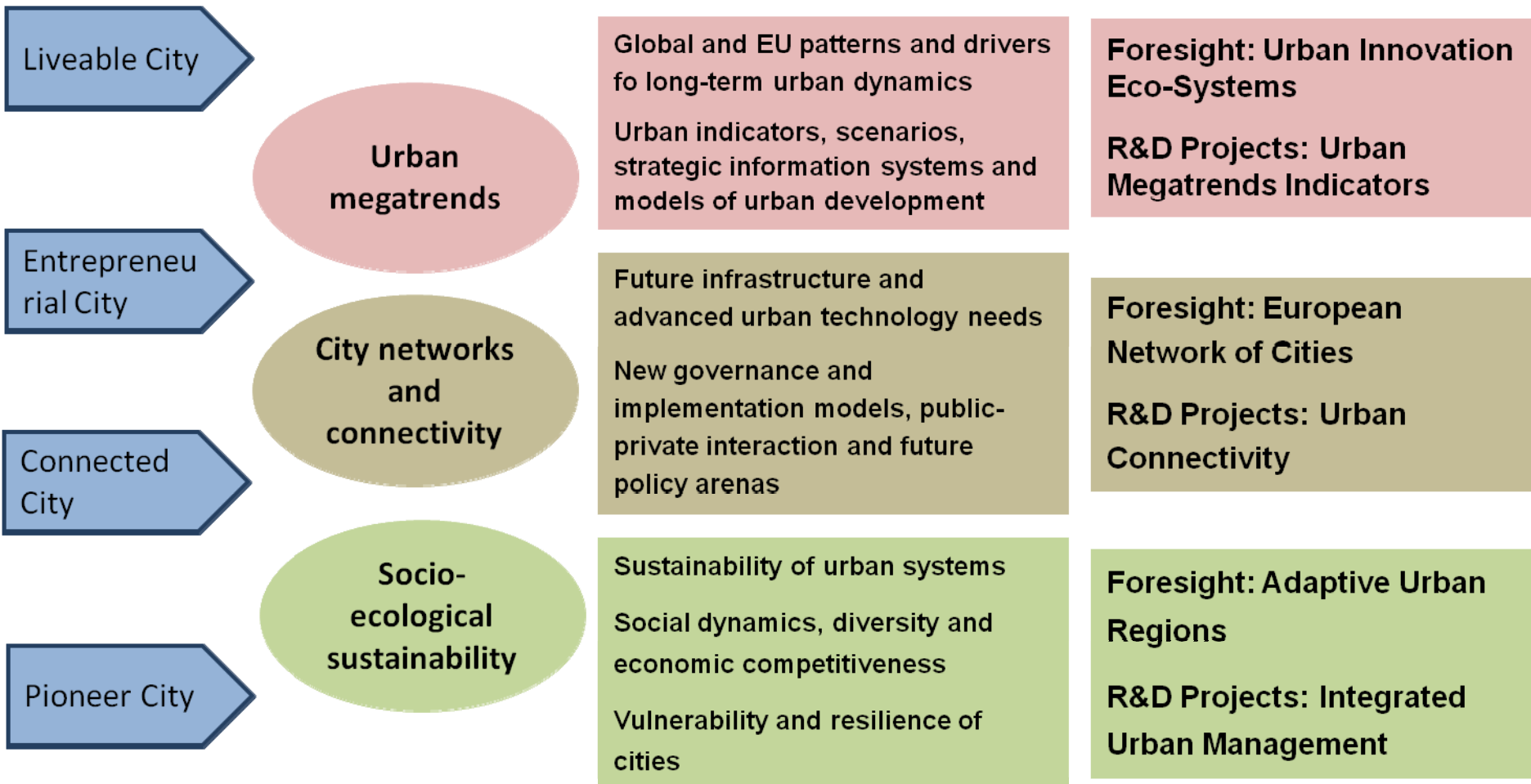
1. **Identification** of critical issues and **stock-taking** of strategic global trends and drivers of urban development;
2. Final determination of the long-term Strategic Research Agenda for 2014 – 2020 (**R&D roadmaps and programmes**);
3. Development of Key Performance Indicators (**KPIs**) for the **four city images** of Urban Europe;
4. Creation of **databases reflecting good practice** in pilot and demonstration of new urban technologies and solutions.
5. Develop strategic **Research cooperations beyond Europe**

# Modules of the pilot phase



# Process of the Pilot Phase

**National Thematic  
Stakeholder Processes**



## Expected Outcome of the Pilot Phase

1. Common ground and **understanding of key drivers and trends**;
2. Input for the **grand challenges debate** of the 8<sup>th</sup> Framework programme (EU Common Strategic Framework – CSF);
3. **Long-term SRA** as a basis for R&D roadmaps and programmes, funding and implementation concepts of the JPI Urban Europe for 2014 – 2020;
4. Establishment of a **Urban Europe Research Alliance**, uniting European RTOs and universities in the implementation of the SRA of Urban Europe;
5. First **strategic research projects based on joint calls and the work of the Urban Europe Research Alliance**;
6. First **joint activities based on variable geometry** in alignment with the Strategic Research Framework (SRF) of the JPI Urban Europe;
7. **Databases and Key Performance Indicators** for urban development;

# Urban Europe – Contact Points

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# Thank you for your attention!

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