



Conference 2011



Conference under the
patronage of the Polish
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
04 / 05 October 2011**

Urban Europe - A Joint Programming Initiative

Addressing the Grand Challenge of
Urbanisation

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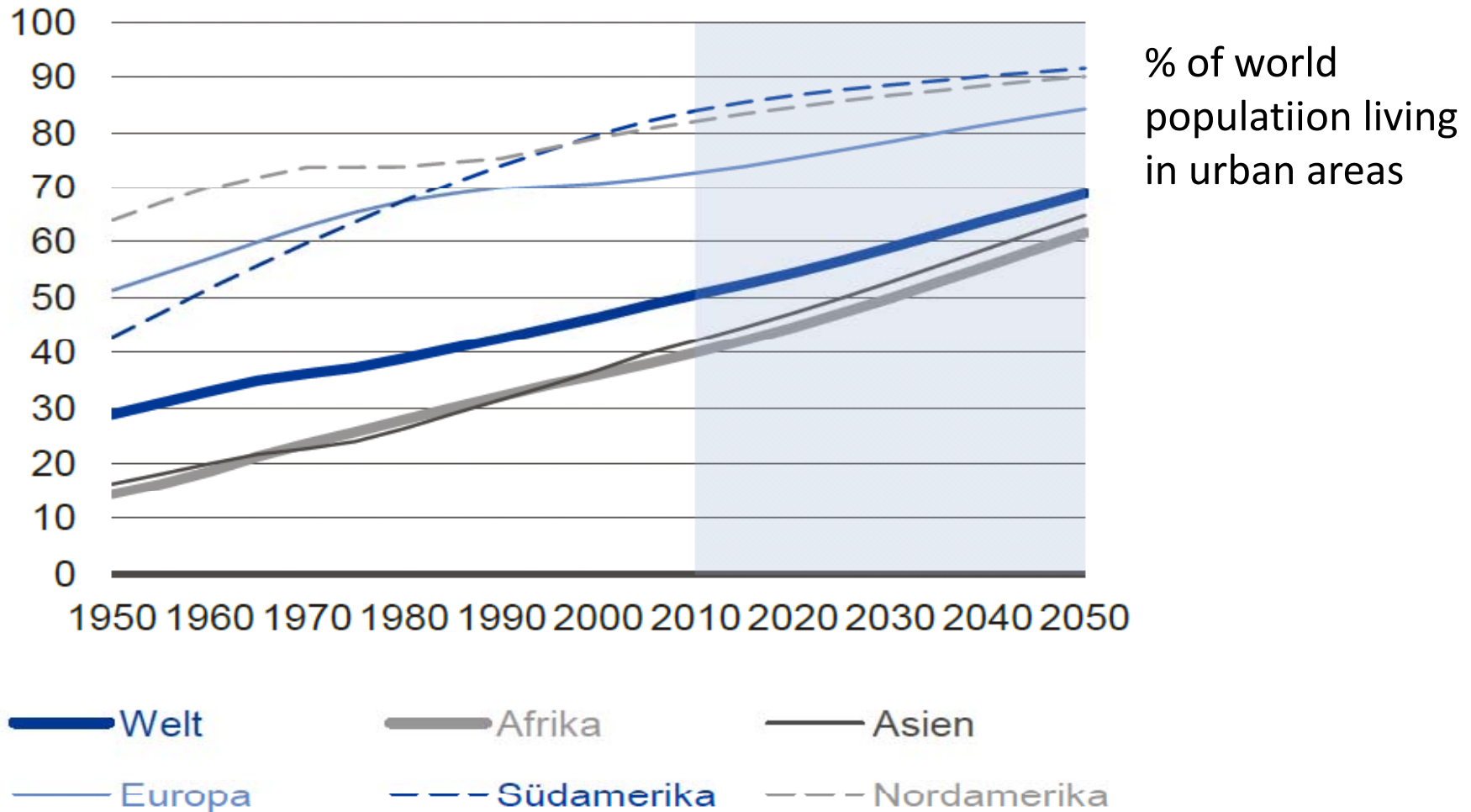
What is Joint Programming?

- 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

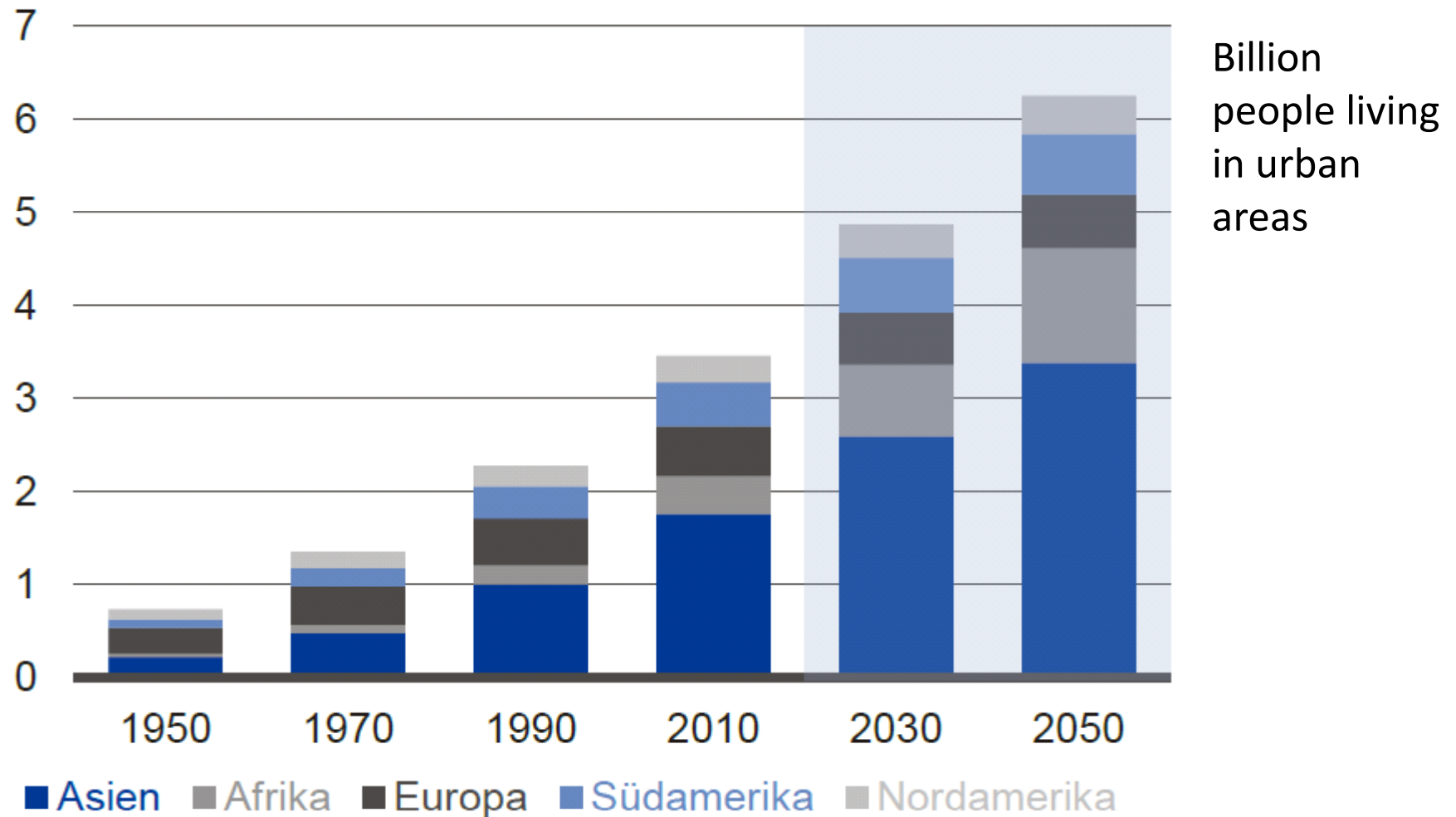
- Council decision of 1-2 December, 2008
 - Joint Programming as policy process, driven in variable geometry by the European Member States (MS)
 - Establishment of a Council working group (GPC)
 - Invitation for MS to propose topics of grand challenges and offer to coordinate joint programmes
- Joint 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 2nd wave

Urbanisation as a Grand Challenge



Quelle: UN Population Division

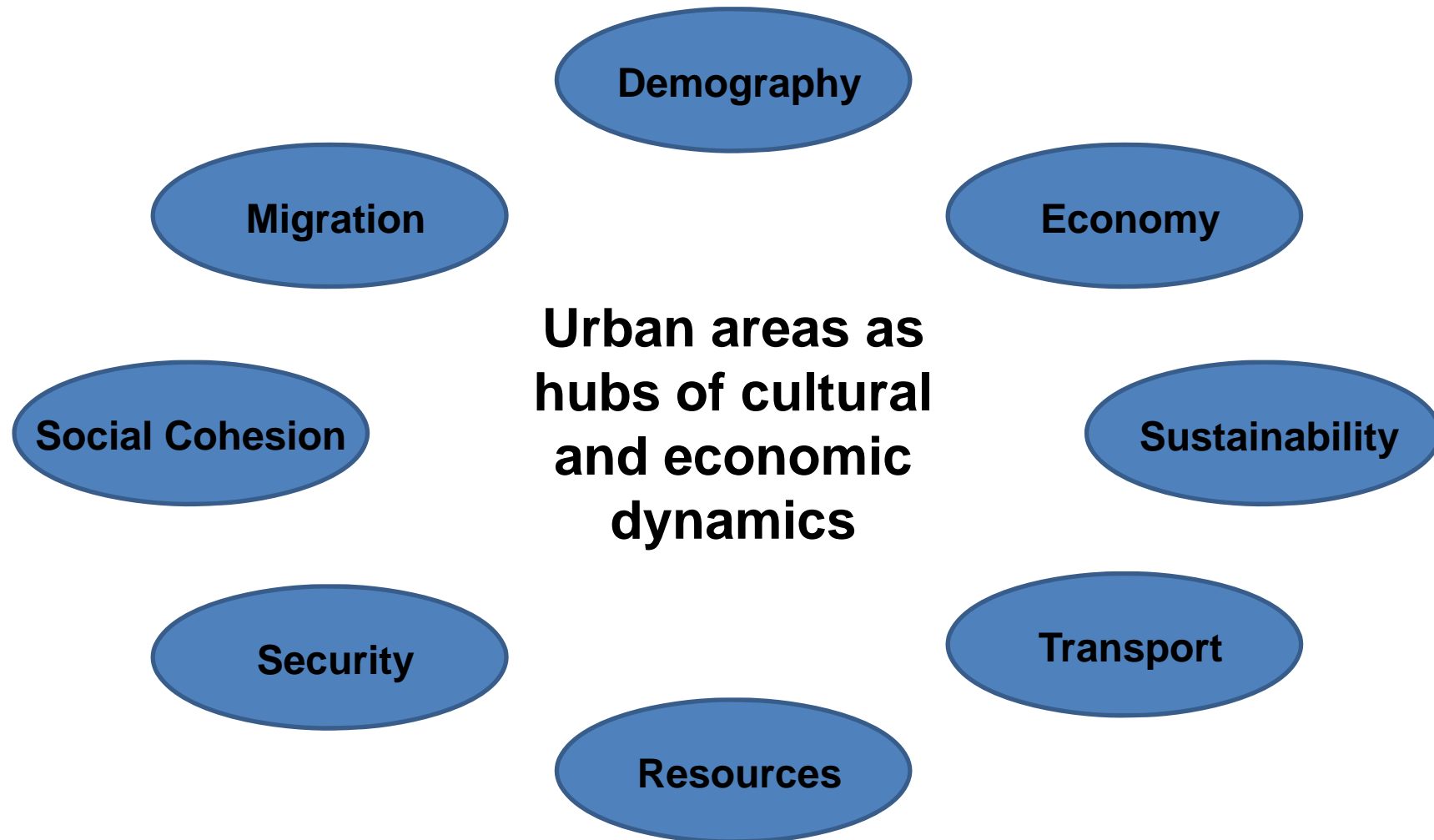
Global Distribution of Urbanisation



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**.

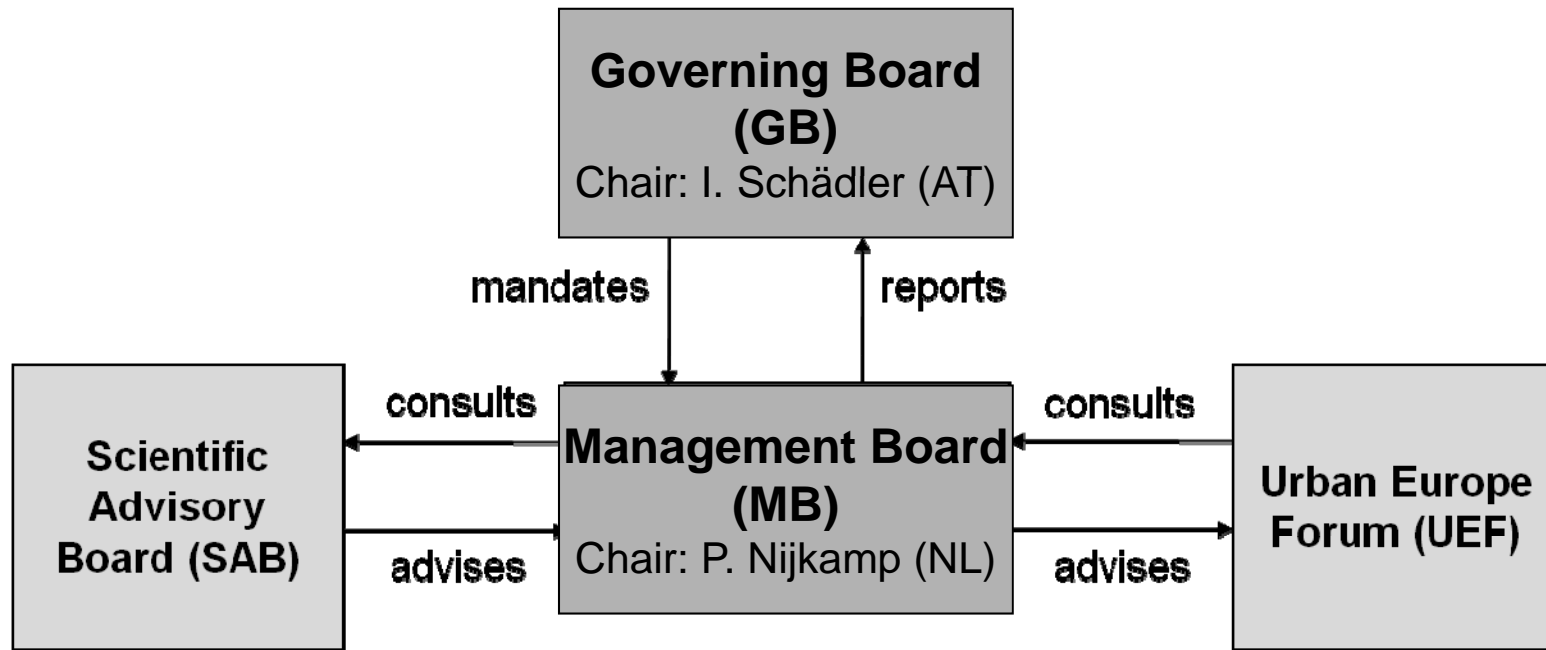
Objectives of the JPI Urban Europe

- 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

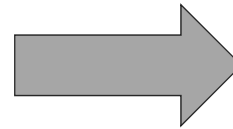
Strategic Research Framework and Pilot Phase

Role of Urban Europe SRF

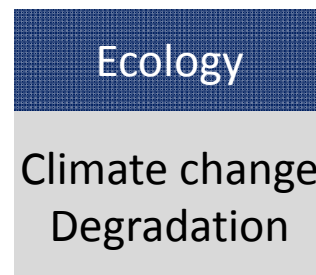
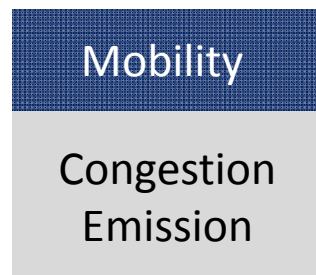
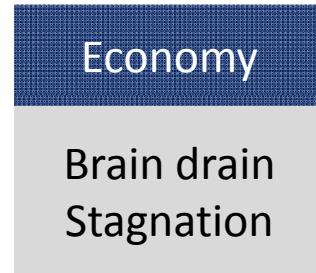
- To define the mid to long term thematic scope of Urban Europe research
- To identify the main research themes
- To set the frame for specific implementation measures as well as for the development of research roadmaps and programmes

Strategic Research Framework – Process

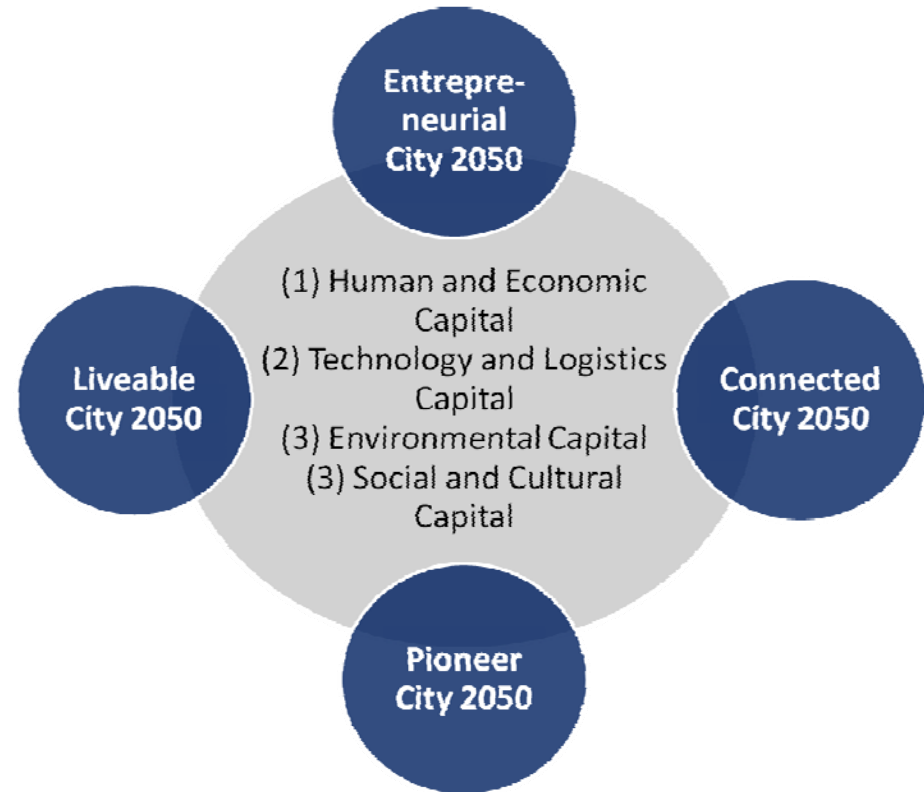
4 pillars
representing challenges



4 integrated city images
representing research demands

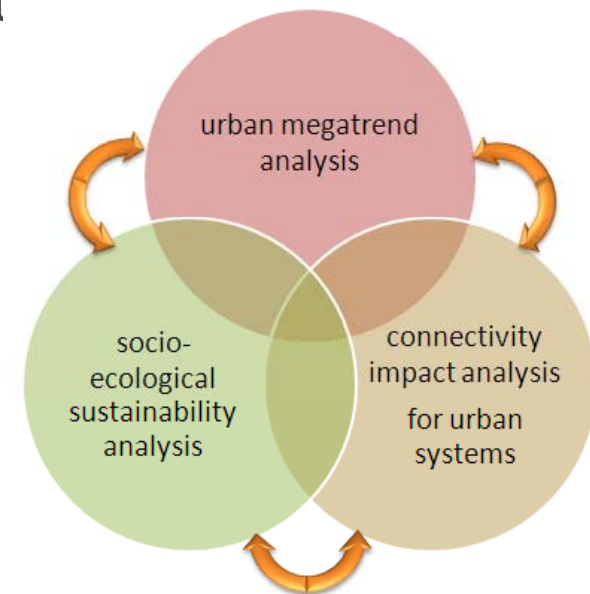


Urban Europe Vision & Mission



Strategic Research Framework - Architecture

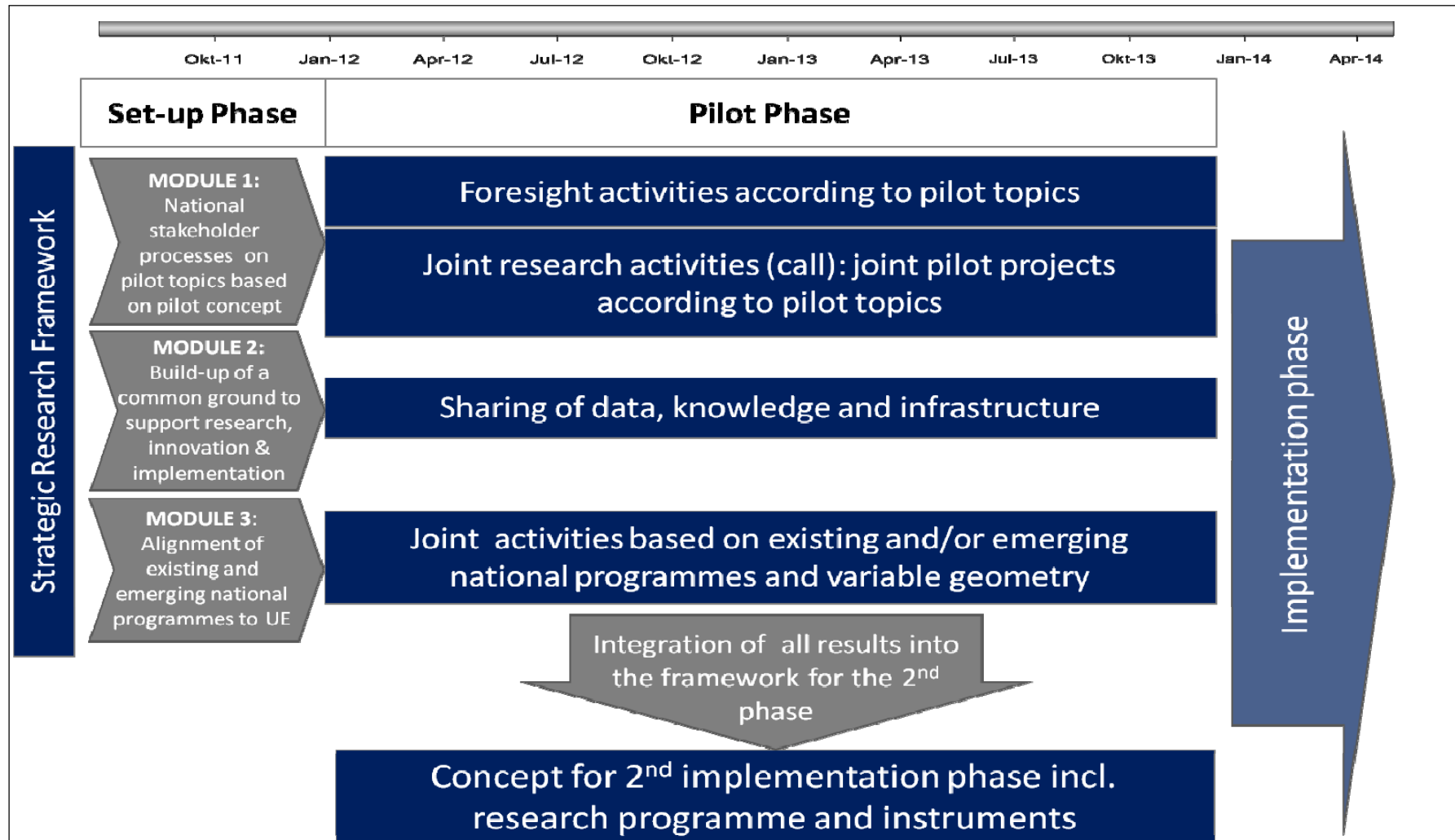
- What are the prominent demographic, economic and technological megatrends that are decisive for the future of urban systems?
- What are new developments and policies in mobility, logistic and land use that are needed to create vital and attractive cities and networks of cities in the decades to come?
- 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

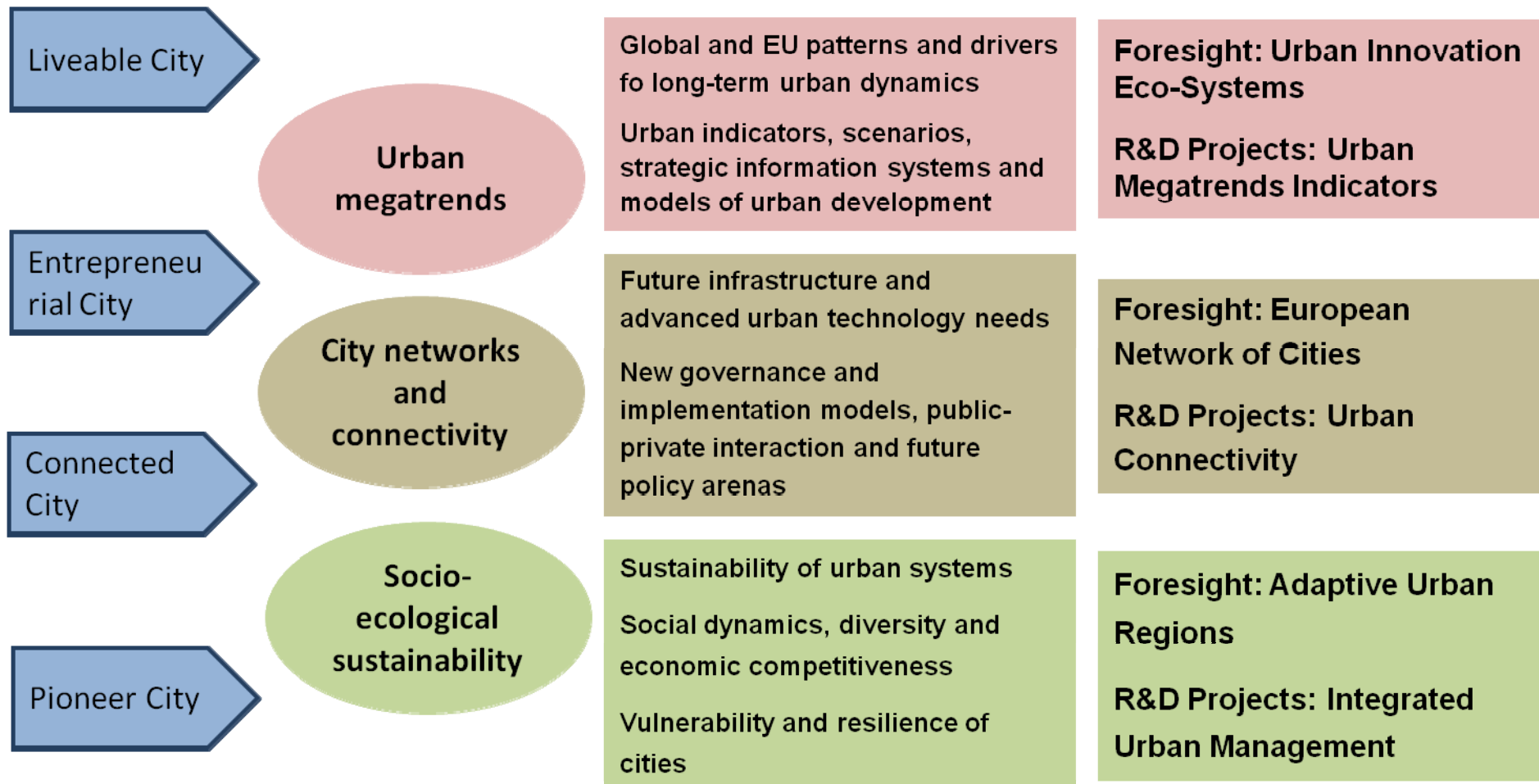
1. **Identification** of critical issues and **stock-taking** of strategic global trends and drivers of urban development;
2. Final determination of the long-term Strategic Research Agenda for 2014 – 2020 (**R&D roadmaps and programmes**);
3. Development of Key Performance Indicators (**KPIs**) for the **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 8th 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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