URBAN EUROPE

Global Challenges – Local Solutions

Proposal for a Joint Programming Initiative

GPC Meeting
19 March 2010, Brussels
Urban Europe – Global Challenges

Society
- Ageing
- Segregation

Economy
- Brain drain
- Stagnation

Mobility
- Congestion
- Emission

Ecology
- Climate change
- Degradation
Urban Europe – Society

Trends in Urbanisation in Europe 1950-2050, UN 2009

- International migration makes up 1/3 of urban growth
- Rapidly ageing population and proportion of 60+
- (Re) Emergence of problems as poverty, homelessness, crime
Urban Europe – Economy and Innovation

- Urban Areas are the centres of economic and innovative activities (80% of GDP, R&D)
- Increasing global competition
- Considerable disparities between and within urban areas
Urban Europe – Mobility

- Congestion in urban areas costs 100 billion Euro or 1% of the EU's GDP annually
- Urban areas - 40% of all CO² emissions of road transport
- Road accidents: health effects, damage to vehicles, expenditure for police and emergency service
Urban Europe – Mobility

Urban Passenger Transport CO₂ per capita (UN 2008)
Higher temperatures in urban areas - “heat island” effect

Direct effect on the energy consumed by cooling appliances

Peak electricity load increases 3-5% for a 1°C increase in temperature
Urban Europe at the Crossroads: Quo Vadis?
Urban Europe – Local Solutions

→ Social Cohesion and Integration

→ Innovation Hubs and Living Labs

→ Intelligent intra- and inter-urban Transport, Logistic and Communication Systems

→ Sustainability and Minimization of Ecological Footprint
Urban Europe – A Systemic Approach

Prospering European Areas

Social Cohesion and Integration
Innovation Hubs and Living Labs
Intelligent intra- and inter-urban Transport, Logistic and Communication Systems
Sustainability and Minimisation of Ecological Footprint

Feedback Loops

New Urban Policies

Utilisation of emerging technologies

New Governance models
Spatio-temporal urban planning concepts
Awareness Rising Instruments
Participatory Policy Development

Transport and Mobility System
Energy Supply
ICT System
Water & Waste Management
Construction and Control Systems for Buildings
Urban Europe – Modules

Module 1
Understanding Urban Systems

Urban Scenarios
Foresight Activities

Policy Initiatives for Technology Development
Transport
Energy
Innovation and Growth
Buildings and Construction

Module 2
Implications for urban policies
Planning Processes
Roadmaps

Module 3
Utilisation of new technologies and governance solutions

Benchmarking and Monitoring
Evaluation and Validation

Demonstration
Pilot Projects
Module 1
Understanding urban systems

- Develop integrated models for simulation and optimisation of urban development scenarios: operational methodologies for foresight experiments on urban issues

- Create and Integrate Data Bases: as a basis for evidence-based policies. Utilise the wealth of data on urban and transport issues (e.g. Eurostat, Urban Audit)
Module 2
Implications for urban policies in the 21st century

→ New planning, management and governance models leading to “cities as service centres” and “cities of excellence”
→ Participatory Policy Approaches
→ Planning for and designing “zero slums & deprived areas”
→ Integration concepts of social (and ethnic) groups
→ Spatio-temporal planning for land use systems
Module 3

Utilisation of new technologies and governance solutions

- **Co-modal transportation systems** on local, regional and international levels: environmentally friendly, safe, sustainable, available

- **Zero tolerance of fatalities and injuries** (sensor web, web2.0)

- **Smart Grids, electric mobility** (i.e. electric vehicles, hybrid electric vehicles, plug-in hybrid electric vehicles, hydrogen/fuel cells)

- **Model-cities and demonstration projects**: e.g. Stockholm (eco-cities), Amsterdam (modal split), Vienna (eco-renovation), Mannheim (smart grids)

- **New housing and building concepts** (intelligent homes, energy efficient buildings, smart cities)
Creating applicable and feasible Tools and Instruments for Policy Makers

Reinforcing European competitiveness – mobilising the advantages of European urban agglomerations and of new technologies in urban contexts

Helping to address grand challenges in an urban context and ensure liveability and inclusiveness of European urban areas

Developing and aligning strategically oriented research and human capital

Urban Europe – Adds Value

Helping to address grand challenges in an urban context and ensure liveability and inclusiveness of European urban areas

Creating applicable and feasible Tools and Instruments for Policy Makers

Reinforcing European competitiveness – mobilising the advantages of European urban agglomerations and of new technologies in urban contexts
Urban Europe – Joining Forces

Proposing countries (10)
Austria, The Netherlands, Finland, France, Ireland, Italy, Sweden, Switzerland, Turkey, Spain (to be confirmed)

Interested countries (9)
Belgium, Bulgaria, Denmark, Estonia, Malta, Norway, Romania, Slovenia, United Kingdom
Urban Europe – Getting involved

40 institutions and networks from 17 countries

➔ 7 September 2009, Brussels
➔ 1 October 2009, Vienna
➔ 17 February 2010, Vienna
➔ 3/4 March 2010, Brussels

Coordinated by

➔ Austrian Ministry of Science and Research
➔ Austrian Ministry of Transport, Innovation and Technology
➔ Dutch Ministry of Transport, Public Work and Water Management
Urban Europe
– Creating Complementary Approaches

Involved Initiatives

- ERA-net “urban-net”
- European Energy Research Alliance (EERA)
- Trans European Transport Networks (TEN-T)
- ERA-net “transport”
- The Freight Logistics Package 2007
- European Construction Technology Platform (ECTP)
- POLIS
Urban Europe – Contact Points

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