

Not to be Built on Sand Good Practice Examples from BMBF's Future Megacities Programme

Future Megacities -

Energy- and Climate-Efficient Structures in Urban Growth Centres



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www.future-megacities.org

RESEARCH

Igniting ideas!

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*Future Megacities -
Energy- and Climate-Efficient Structures in Urban Growth Centres*

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Global Responsibility - International Political Setting

- **2000 MDGs – UN Millennium Summit**
 - » **Goal 7: Ensure Environmental Sustainability**
 - » **Goal 8: Develop a Global Partnership for Development**
- **2007 Heiligendamm**
 - » **Global Concern: Climate Protection and Energy-Efficiency – Appropriate Technologies**
- **2009 I'Aquila**
- **2009 Copenhagen December ??**

Global Responsibility – Implications for National Policies

- **2002 National Strategy for Sustainable Development**
- **2006 Federal Government's High-Tech Strategy**
- **2007 BMBF's High-Tech Strategy for Climate Protection**

Implementation of National Policies - **Global Responsibility**

- **2004** **FONA - Research for Sustainability
Framework Programme of BMBF
for a sustainable, innovative society**
- **2005** **BMBF's Research Focus on Future Megacities**
- **2005 -2008** **Pre-Phase on Sustainable Urban Development
to set up research consortia**
- **2008 - 2013** **Main Phase Focus on Energy- and Climate
efficient structures in Urban Growth Centres**
- **2010** **Mid-Term Evaluation**

Programme Goals

- international **responsibility** as industrial country: sharing knowledge and technology
- **cooperation** with developing countries/economies in transition regarding **mitigation** and **adaptation**
- demonstrate that **decoupling development from energy-consumption** is possible
- technical and non-technical innovations for **energy- and climate-efficient structures** in cities
- increased **performance and efficiency gains** in energy production, distribution and use
- **good (best?) practice examples** for sustainable urban development

Guiding Principles for Projects

- **Aim at the needs of people + are solution-oriented**
- **Multi-dimensional** - interaction of ecological, economic, social transformation + offer a system solution
- **Transdisciplinary** - all disciplines needed & practitioners
- **Integrative** - the whole is more than the sum of its parts
- **Implementation-oriented + demand driven** - research for - not on.....
- **User-oriented participatory approach** - developed in close co-operation with decision makers and stakeholders in the host country + involvement of the civil society - gender issues
- **Long-run orientation, step-wise approach also for capacity building** - additional funding

Megacities Partner Cities for Main Phase (2008 - 2013)



LiWa

RECAST
Urumqi

SHANGHAI



TP. Ho Chi Minh



SUSTAINABLE HYDERABAD
Megacities of Tomorrow

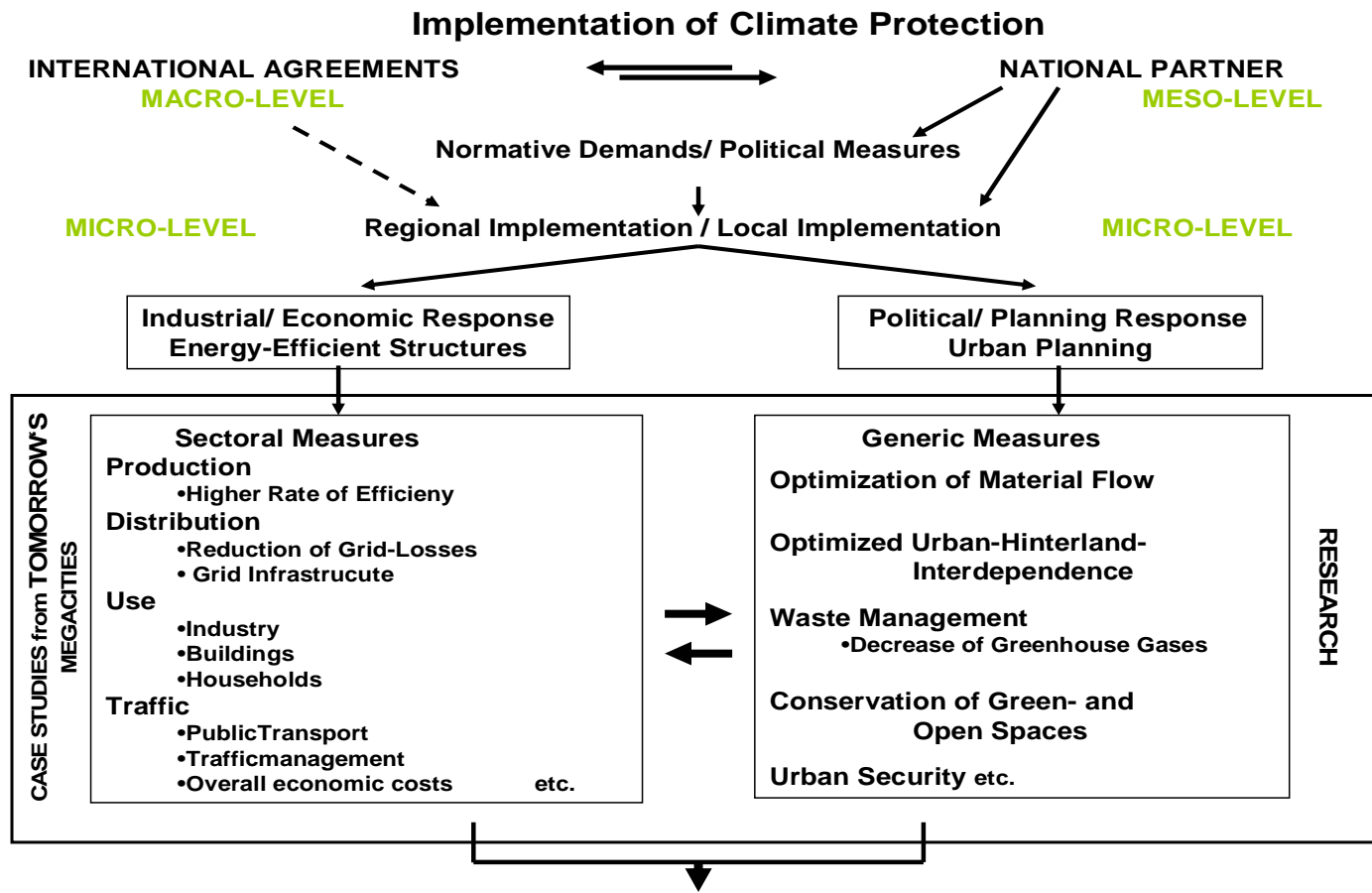
Thank you very much for your attention

Benefits of International Cooperation

Creativity and innovation especially develop in teams combining different scientific views, various cultural perspectives and the experiences of women and men, younger and older researchers

Quote from Franz Miller, Spokesperson of the Fraunhofer-Gesellschaft, Munich

International Climate Regime I



Overcoming Obstacles in Urban Planning Source: A. Koch-Kraft (2008) ©