

BMBF's Research Vision & the Rapid Planning Project

**Rapid Planning Stakeholder Conference
Kigali/Rwanda
9 November 2016**

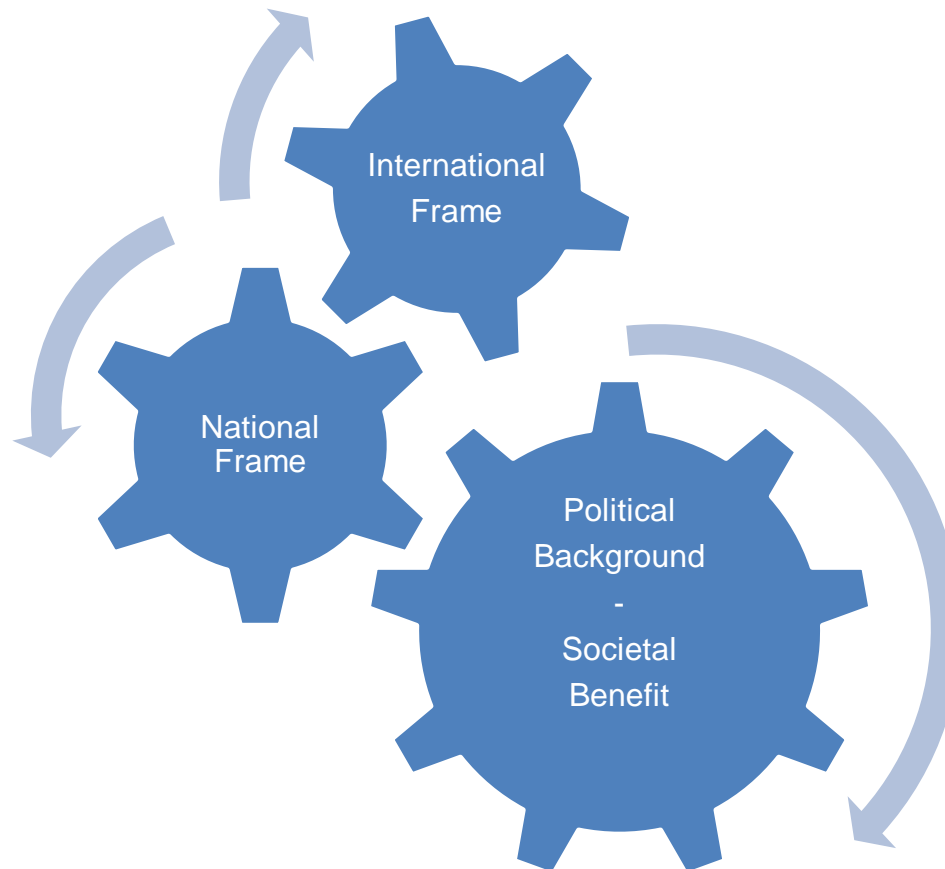
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DLR Project Management Agency



Motivation for BMBF's Research Programmes



International Cornerstones:



On September 25th 2015, countries adopted a set of goals to **end poverty**, **protect the planet**, and **ensure prosperity for all** as part of a new [sustainable development agenda](#). Each goal has specific targets to be achieved over the next 15 years.

For the goals to be reached, everyone needs to do their part: governments, the private sector, civil society and people like you.



Goal 11: Make cities inclusive, safe, resilient and sustainable

TARGETS

11.1

By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums

11.2

By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons

11.3

By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries

11.4

Strengthen efforts to protect and safeguard the world's cultural and natural heritage

11.5

By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations

11.6

By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management

11.7

By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities



11.a

Support positive economic, social and environmental links between urban, peri-urban and rural areas by strengthening national and regional development planning

11.b

By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015-2030, holistic disaster risk management at all levels

11.c

Support least developed countries, including through financial and technical assistance, in building sustainable and resilient buildings utilizing local materials

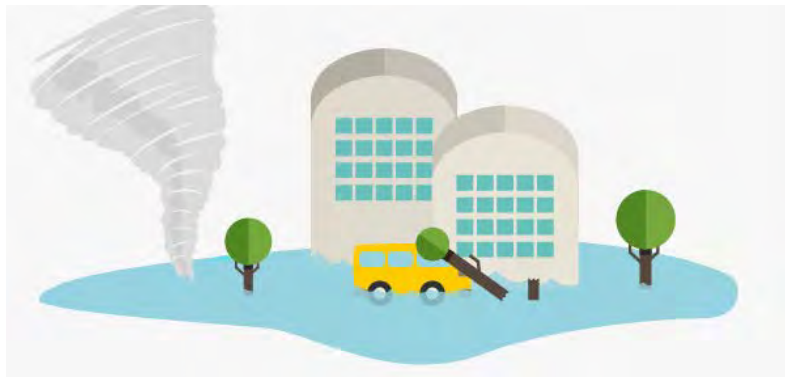


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Paris Agreement

COP21 closed on 12 December 2015 with the adoption of the first international climate agreement (concluded by 195 countries and applicable to all). The twelve-page text, made up of a preamble and 29 articles, provides for a limitation of the temperature rise to below 2°C and even to tend towards 1.5°C. It is flexible and takes into account the needs and capacities of each country. It is balanced as regards adaptation and mitigation, and durable, with a periodical ratcheting-up of ambitions.



International Cornerstones:



127/ 175: We recognize that the implementation of the New Urban Agenda requires an enabling environment and a wide range of means of implementation including access to science, technology, and innovation and enhanced knowledge sharing on mutually agreed terms, capacity development, and mobilization of financial resources...

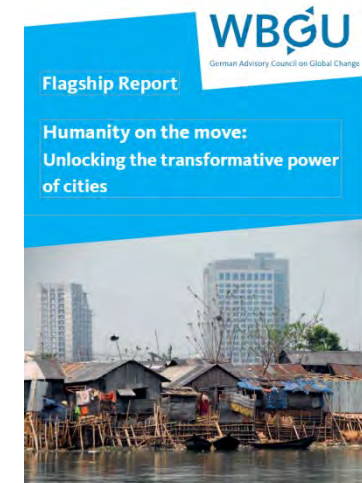


Federal Government's/ BMBF's Cornerstones:

- “Research for Sustainable Development” framework programme:
 - City of the Future (2015 Focus)
 - energy transition
 - sustainable economic activity



Flagship Report:
“Humanity on the move.
Unlocking the transformative power
of cities”



Federal Government's/ BMBF's Cornerstones:



Implementation of BMBF's International Urban Research (selected measures)

www.future-megacities.org

Goals and Budget

Climate change mitigation and adaptation measures for the establishment of energy- and climate-efficient structures

Total research budget:
approx. 50 Mio €
for 9 years (-> 2014)
for 34 German research
institutions, in-kind contribution of
foreign partners

www.future-megacities.org

Impact

Funding of 9 bilateral research
projects & capacity building
measures in 8 countries (5 Asia,
1 Latin America, 3 Africa),
approx. 1000 research products



Implementation of BMBF's International Urban Research (selected measures)

Rapid Planning (2014 – 2019),
Sustainable infrastructure,
environmental & resource
management for
highly dynamic metropolises;
features the regions of
Sub-Saharan, Africa, the Arab
States, South East Asia and Europe



RAPID PLANNING



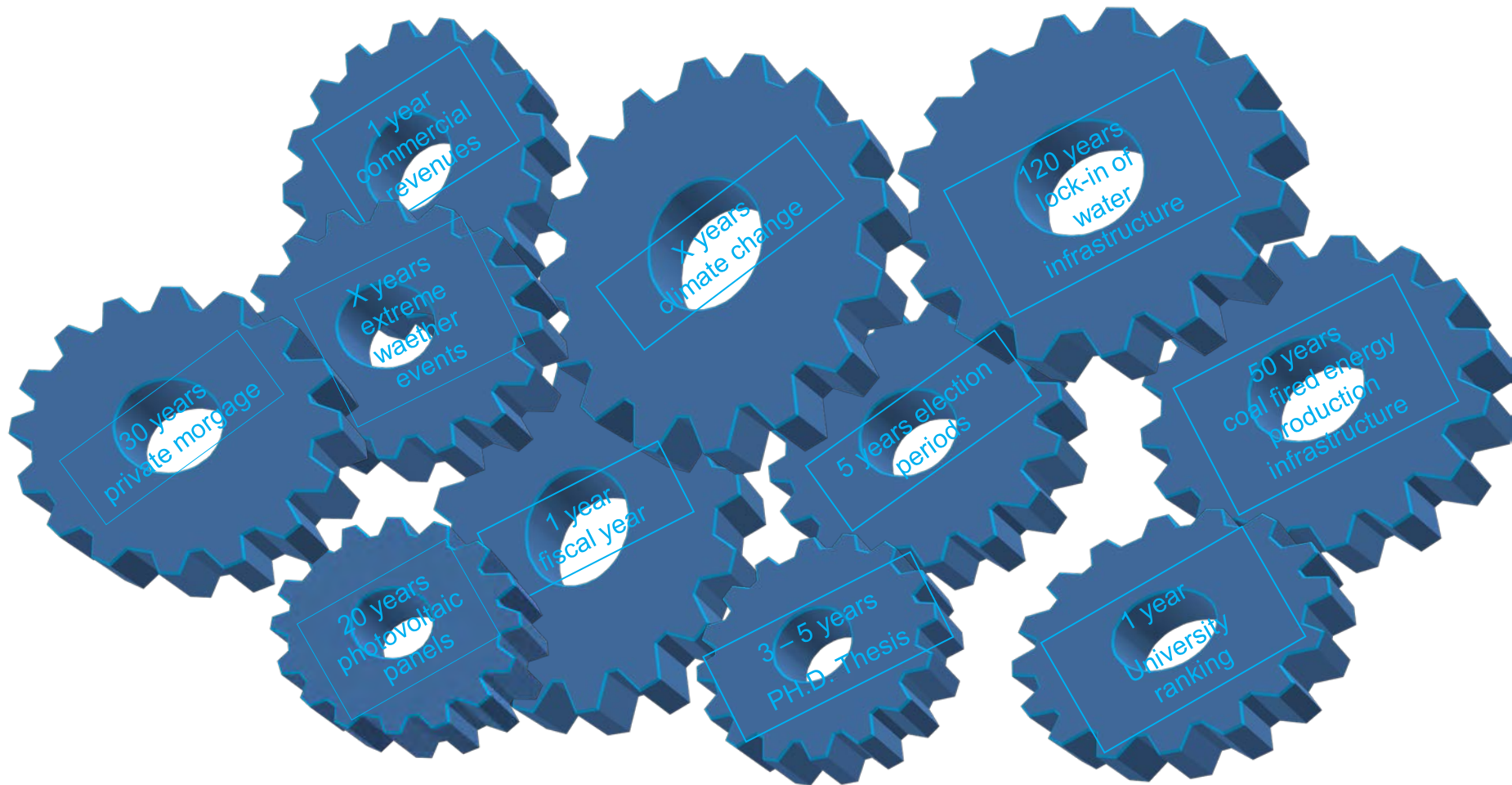
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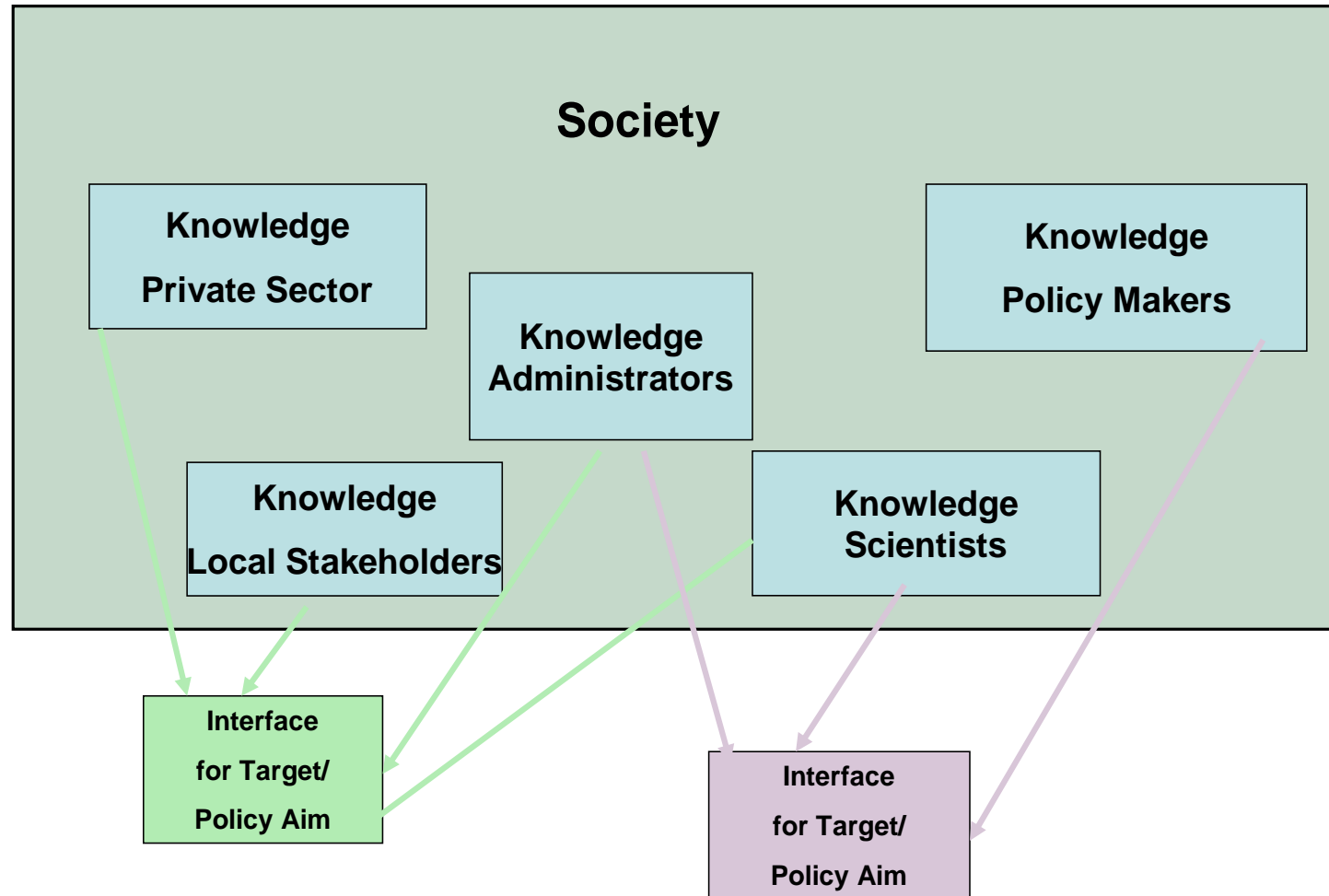


City Action – Time Frames of Different Actors



Adapted from Koch-Kraft 2013:





Implementation-oriented science/sustainability science: Different forms of knowledge to be assembled individually and in relation to the policy- /implementation-oriented target being set by the research group
(Source: Peter Moll, Ute Zander 2006)





Thank you very much for your attention



Our subjects

- » World of work
- » Education
- » Society
- » Environment
- » Health
- » Culture
- » Innovation
- » Technologies



DLR-PT, Berlin

Facts and figures

- ~1,000** employees, more than half of them researchers
- 3** locations: Bonn, Cologne, Berlin, **1** office in Brussels
- ~1** billion euros in funding and 9,500 projects annually



Our clients

- » Federal ministries, state ministries, public authorities
- » Foundations, associations, research organisations
- » European Commission, foreign government bodies



Selection:



Bundesministerium
für Arbeit und Soziales



Bundesministerium
für Bildung
und Forschung



Bundesministerium
für Familie, Senioren, Frauen
und Jugend



Bundesministerium
für Gesundheit



Bundesministerium
für Wirtschaft
und Energie



EUROPÄISCHE UNION



EURASIA FOUNDATION

Ministerium für Innovation,
Wissenschaft und Forschung
des Landes Nordrhein-Westfalen



Gemeinsamer
Bundesausschuss



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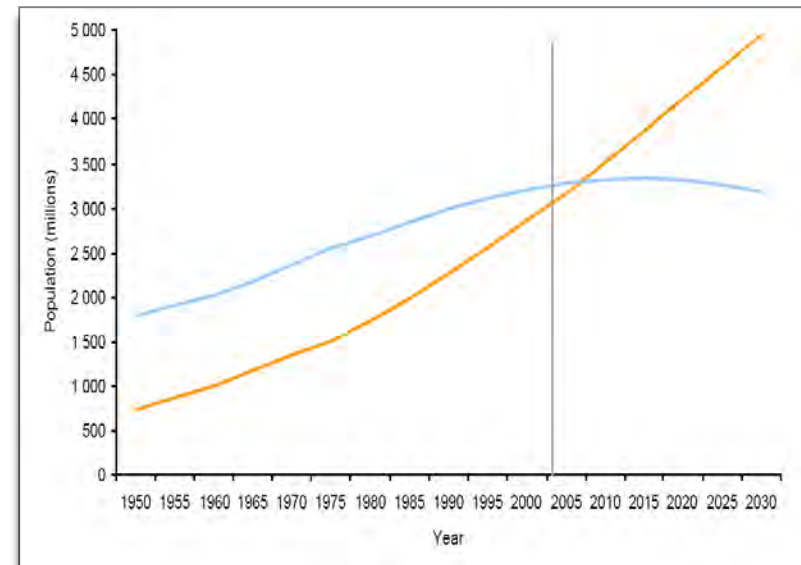
Motivation for BMBF's Research Programme Future Megacities (2005-2014)

Identify a (Mega)Trend:

Data: UN, OECD, International Studies



Source: Nature, Vol. 437/ 15 Sept 2005



Urban and Rural Demographic Trends

Source: UN 2004

