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# Climate Change Governance for Cities and Regions



- some principles and practice

***Cities and climate change***

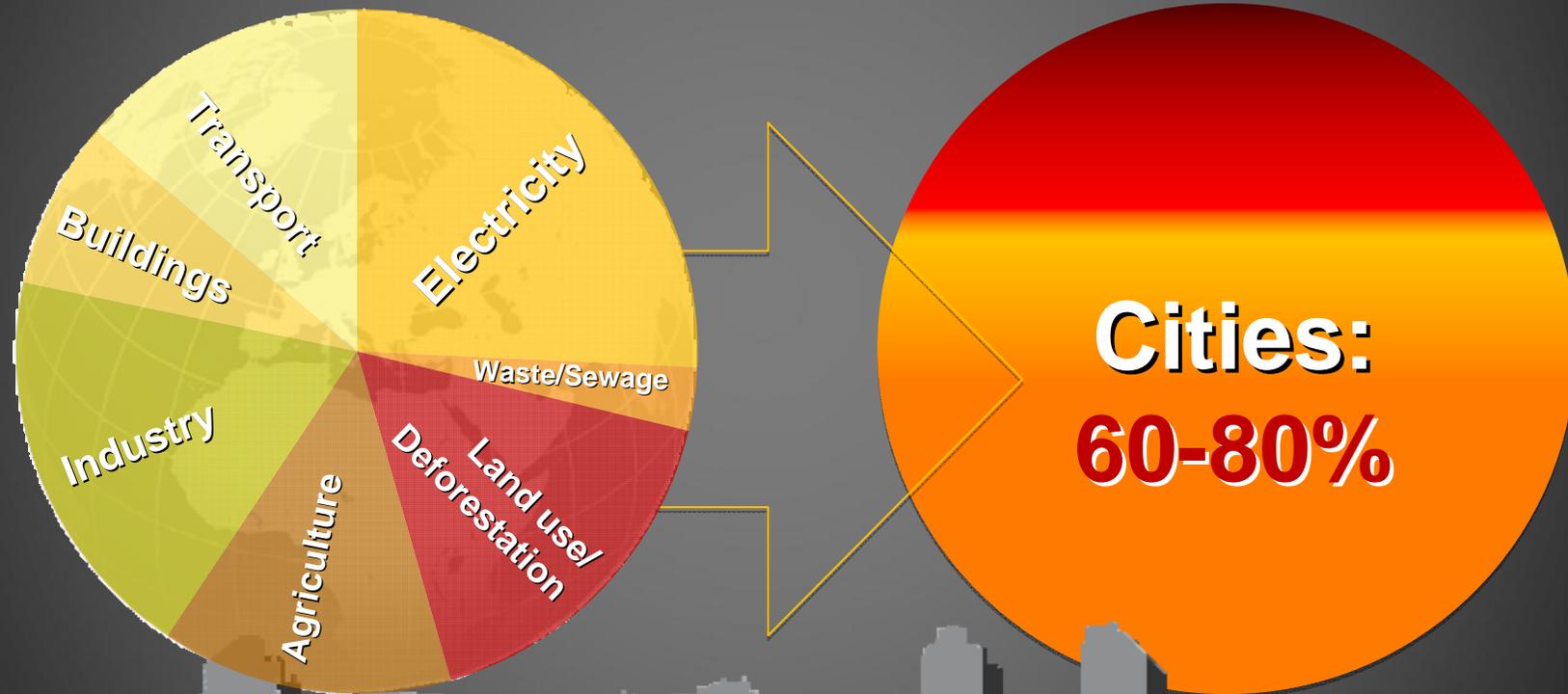
***Climate change governance  
for cities and regions***

***Recommendations for policy***

# *Cities and climate change*

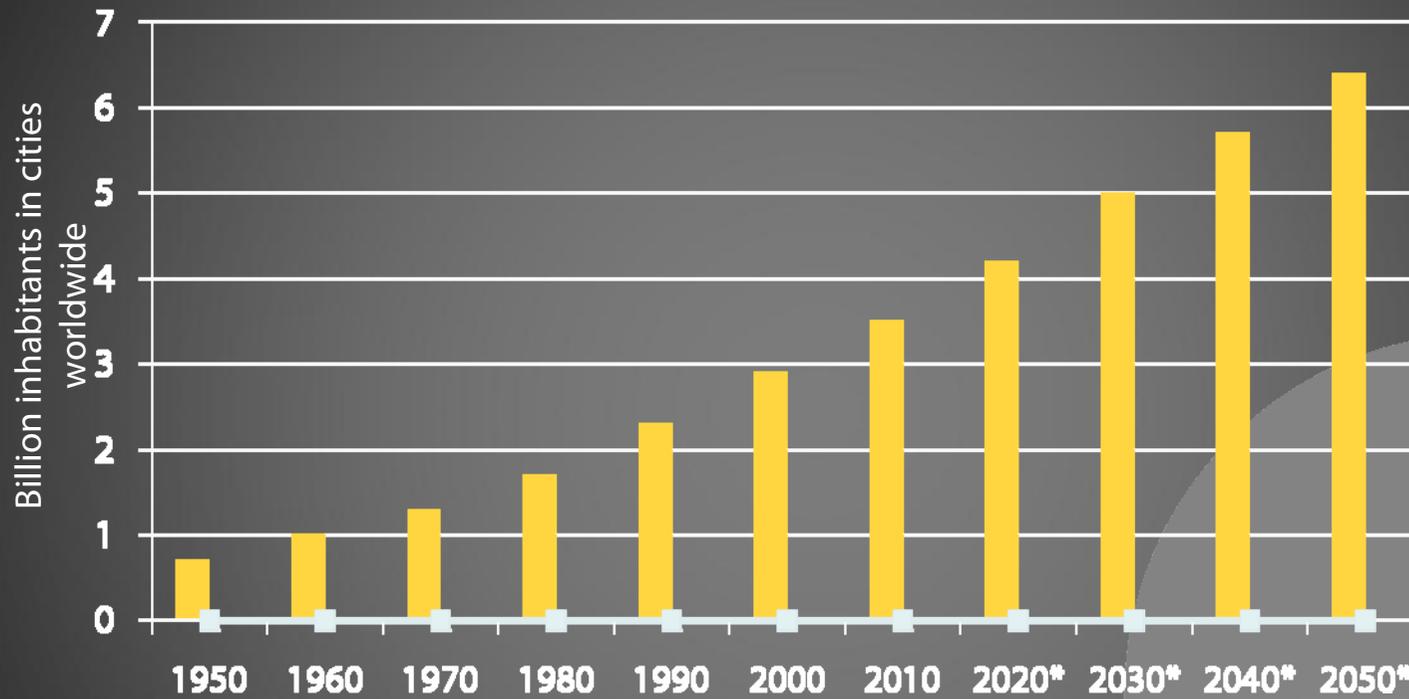
# Cities' impact on climate

Global GHG-emissions



Source: World Bank 2010

# Global urban growth



29,6%  
of world population in urban  
areas

69,6%  
of world population in  
urban areas

Source: World Bank 2010

# Climate change



Mitigation

&

Adaptation

# Climate change mitigation in cities: e.g. energy demand reduction



Bildquelle: Millonario/Wikimedia, [http://www.kvc-kassel.de/uploads/pics/Regiotram\\_in\\_Region.jpg](http://www.kvc-kassel.de/uploads/pics/Regiotram_in_Region.jpg)

# Climate change mitigation in cities: e.g. energy efficiency



# Climate change mitigation in cities: e.g. renewable energy supply



# Climate change mitigation in cities: e.g. innovative mobility modes



Bildquelle: MissyWegner/Wikimedia, <http://data.motor-talk.de/data/galleries/749826/331526/car2go-01-500-333-smart-62723.jpg>

# Climate change mitigation in cities: e.g. regional produce and products



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## Introducing Hantz Farms

Detroit is about to redefine urban growth.

Bildquelle: <http://www.hantzfarmsdetroit.com/>

How can urban climate change mitigation be effectively implemented?

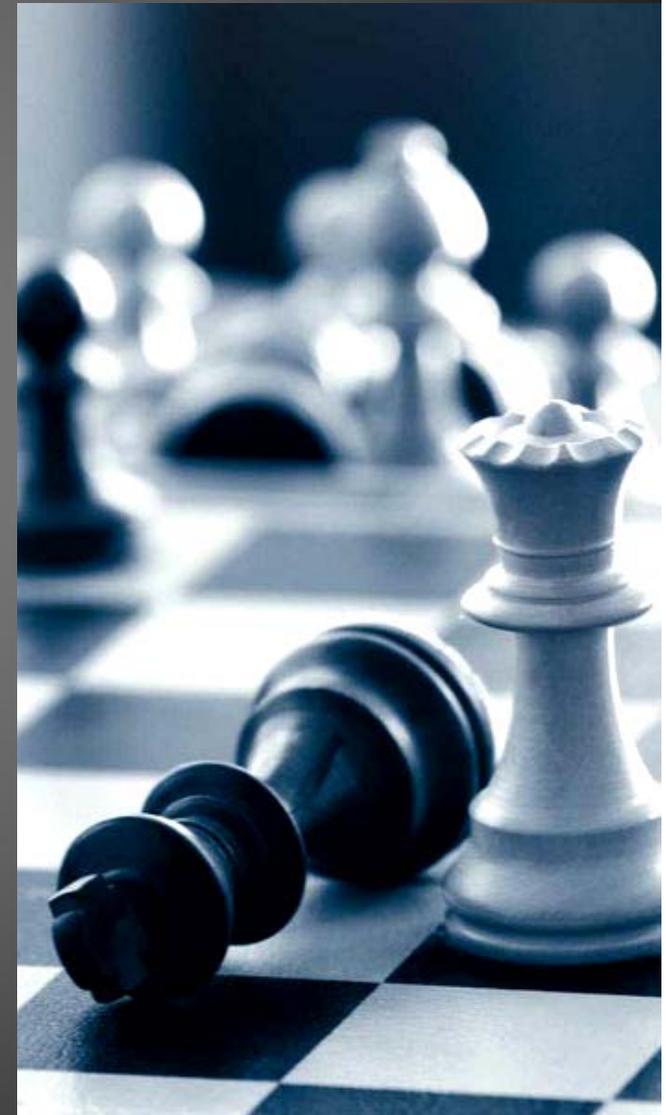
***Climate change governance:  
Mitigation in cities and regions***

# Climate change governance

## Broad definition:

“Urban climate governance refers to the ways in which **public, private and civil society** actors and institutions articulate **climate goals**, exercise **influence and authority** and **manage** urban climate planning and implementation processes.”

Anguelovski and Carmin 2011:169.



# Instruments of governance

- Regulation
- Economic incentives
- Information/communication
- Co-operation/organisational development



# Barriers to effective climate change mitigation

- Lack of vertical co-ordination of policy action (local, regional, national)
- Lack of horizontal co-ordination of policy action (between different policy sectors of a municipality)
- Lack of regional co-ordination
- Lack of access to resources/funding
- Lack of access to knowledge/expertise
- Conflicting policy aims of climate change mitigation and economic development

(Bulkeley et al. 2009)



# Seven drivers for effective climate change governance

1. Leadership
2. Target setting
3. Remit of local government
4. Resources
5. Issue framing
6. Multi-level governance: horizontal and vertical co-ordination
7. Partnership working with stakeholders





*Recommendations for policy*

# Five recommendations for policy

1. National level support for 100% RE cities/regions
2. Cross-ministerial commission for urban energy transition
3. National feed in tariff
4. Local and regional partnerships
5. Public discussion on the future of urban energy provision





***Thank you!***