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Urban Planning for Climate Change

FIG Working Group 8.1

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May 9, 201

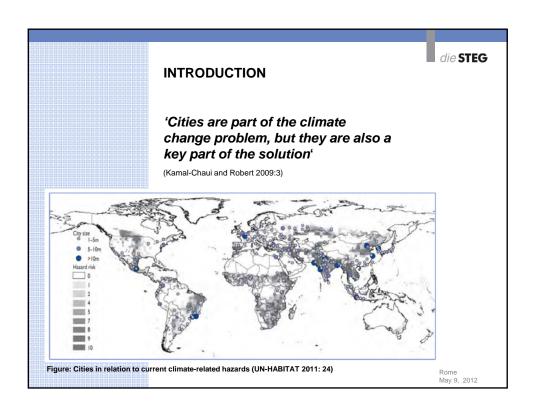


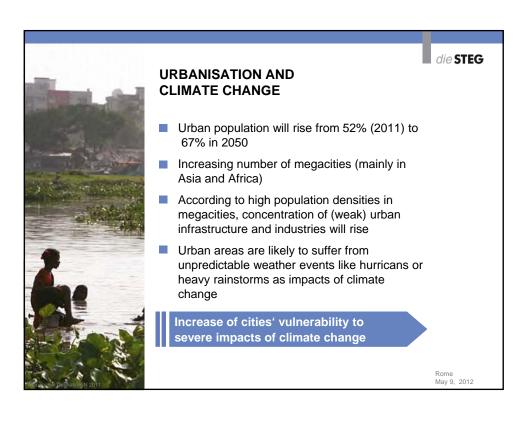
AGENDA

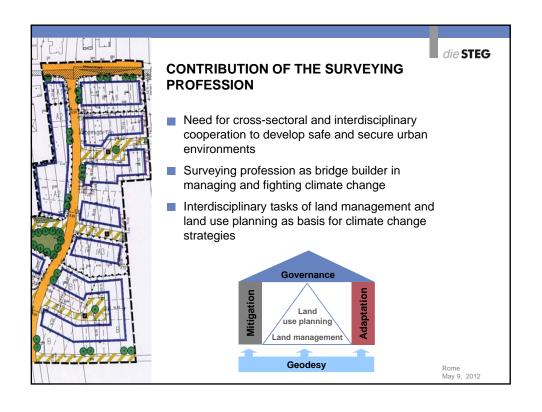
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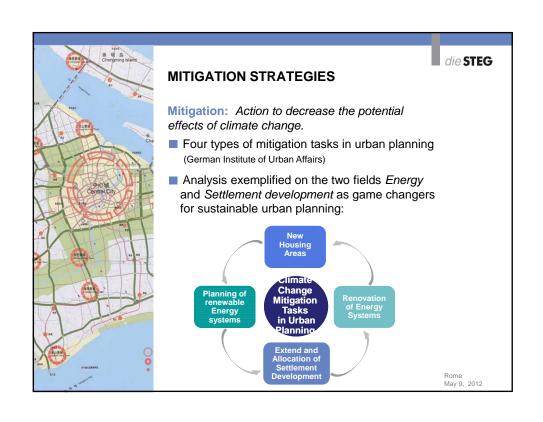
- 1. Introduction
- 2. Urbanisation and Climate Change
- Need of the Surveying Profession in Dealing with Climate Change – Urban Planning Strategies
 - 3.1 Contribution of the Surveying Profession
 - 3.2 Urban Climate Change Mitigation Strategies
 - 3.3 Urban Climate Change Adaptation Strategies
 - 3.4 Climate Change Governance
- 4. Future Directions

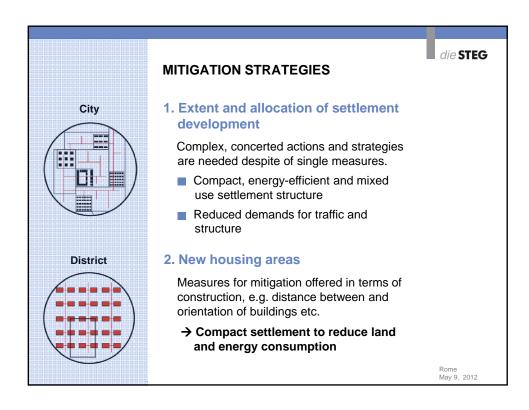
Rome

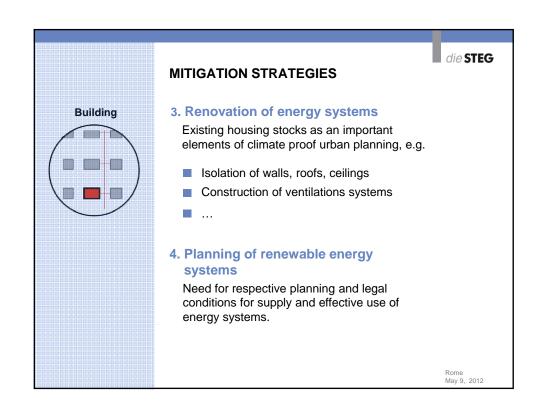














ADAPTATION STRATEGIES

■ Definition: Adaptation (IPCC, 2007):

'all actions to reduce the vulnerability of a system, population group or an individual household to the adverse impact of anticipated climate change'

Examples for possible adaptation measures:



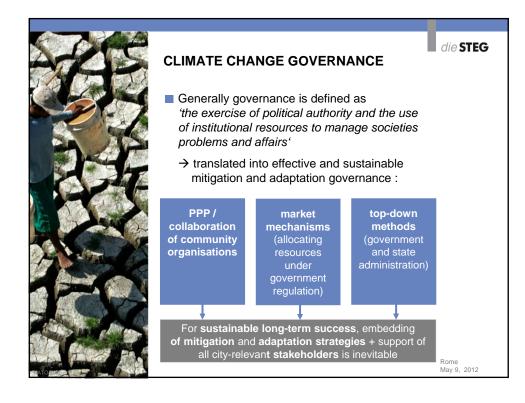
Making constructions more resistant against climate Impacts



Developing climate change adaptation maps at the national, regional and local level

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CLIMATE CHANGE GOVERNANCE

Inner City Networks



Networks for involving stakeholders from the private, public and commercial sector into climate policy governance

- Multi-directional communication and information exchange
- Coordination among stakeholders

Inter-Municipal Networks



Climate change impacts dont't follow administrative boundaries:

Networks for coordinating action:

- Coordination among municipalities
- Inter-municipal collaborative frameworks
- Technical infrastructure cross boundaries

Cooperation between different administrative levels, types of organisations and disciplines as critical factor in fighting climate change.

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CHALLENGES FOR URBAN CLIMATE CHANGE MEASURES

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- Measures often developed outside integrated urban planning framework
- Some key challenges (e.g. urban sprawl) are still not adressed
- Lack of appropriate institutions/authorities
- Lack of funding or central support of regional government
- Insufficient expertise among parties in charge

Systematical evaluation of urban climate policy is indispensable!

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FUTURE DIRECTIONS

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In connection with climate change strategies, sustainable long-term urban planning is needed!

Essential measures for further action:

Identification of climate-proof areas and alternative sites, more suitable for urban development

Controlling the type of land use

Renovation of urban energy and transportation systems

Engineering measures and construction of climate-proof infrastructure

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CALL FOR CASE STUDIES

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Surveyor's response to climate change:

- Supporting to build climate-proof infrastructure
- Increasing political relations both at national and international level
- Faciliating economic, social and environmental sustainability

FIG and especially Commission 8 invites critical research papers and best practice projects that investigate the relationship between urbanisation and climate change:

How can urban planning and land management respond to the challenge of urbanisation and climate change?

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