



SESSION DESCRIPTION

A4 Urban vulnerability and risk assessments and planning: Local governments in focus

Presentations

Date: Thursday, May 29, 2014

Time: 14:30-16:00

Rooms: S29-31

Language: English

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Organized by: ICLEI

OBJECTIVE

Urban vulnerability and risk assessments enable local governments to identify vulnerable groups and areas in the city and develop effective planning responses with targeted adaption measures. This session will present several examples of urban risk and vulnerability assessments being developed and conducted by local governments across the world, in partnership with researchers and other stakeholders.

This session will open with an introduction to a toolkit developed by ICLEI-ACCCRN, which guides cities through a streamlined self-directed process to assess fragile systems, risks and vulnerabilities. The city of Blitar, Indonesia will outline its three-step risk and vulnerability assessment which is partly based on the ACCCRN tool. The individual steps will be presented and the incorporation of the results into the city's integrated climate change strategy will be discussed. Then, the city of Almada, Portugal will showcase its "Local Strategy for Climate Change", which aims to develop a land use plan for one of Almada's coastal areas to promote territorial resilience and minimize the risks of coastal occupation. Several adaptation studies have been conducted and the outcomes and initial findings will be shared. Dunedin, New Zealand will provide a second perspective from a coastal city. They will introduce their climate change adaptation work, focusing first on the hazard mapping project, which aims at developing comprehensive planning responses and then discussing the results of their targeted adaptation assessment.

OUTCOMES

- The participants will learn about global examples of urban risk and vulnerability assessments undertaken by local governments;
- They will deepen their understanding of the processes involved and steps to be taken to achieve a comprehensive and targeted assessment; and
- They will be able to take this knowledge with them to apply in their own cities and regions.

METHODOLOGY

- The facilitator will provide an overall introduction to the session topic and contributors. **(5 minutes)**
- Each presentation will be allotted 10 minutes. **(4 x 10 minutes)**
- The facilitator will manage questions and answers. **(40 minutes)**
- Closing remarks by the facilitator. **(5 minutes)**



CONTRIBUTORS

Facilitator *Steve Gawler, Director International Programs, ICLEI Oceania Secretariat, Melbourne, Australia*

Presenter *Sunandan Tiwari, Deputy Director, ICLEI South Asia Secretariat, New Delhi, India*

The ICLEI-ACCCRN approach to assessing urban climate risk and vulnerability

In partnership with the Rockefeller Foundation, ICLEI has developed an adaptation planning methodology targeted at assisting city governments in becoming more resilient to climate change. This presentation will introduce the toolkit, which has already been tested in three Indian cities and is currently being applied in a range of cities in India, Indonesia, Bangladesh, and the Philippines. The toolkit enables a streamlined process, which can easily be implemented by the cities themselves, with minimal need for external support. The presentation will show how urban systems analysis can be used to identify climate change risks and vulnerabilities.

Presenter *Elly Tartati Ratni, Head of Development Resources R and D Division, Development Planning Agency of Blitar City, Indonesia*

Developing a risk and vulnerability assessment for Blitar City

This presentation will introduce the three-step risk and vulnerability assessment, which has been developed by the city of Blitar in collaboration with different stakeholders. It involves creating a tailored vulnerability assessment/map building on a tool developed by ACCCRN; then developing a more detailed hazard assessment/map for each village based on questionnaires and expert judgments; and finally constructing a risk assessment/map highlighting the villages exposed to high or moderate climate risks. Each step will be discussed in detail and it will be explained how the assessments and maps have been incorporated into the city's integrated climate change strategy.

Presenter *Nuno Lopes, Head of Environmental Studies and Management Division, City Council of Almada, Portugal*

Coastal hazard mapping as an adaptation planning tool: Almada's local strategy for climate change

The growing demand for coastal habitation requires management and planning strategies that help minimize the risks. The city of Almada will present its "Local Strategy for Climate Change", which seeks to develop a land use plan for the coastal area of Fonte da Telha that promotes territorial resilience. In partnership with scientific research institutions, several adaptation studies were conducted to support the development of the plan. The outcomes of these studies will be presented and discussed. They include a methodology for determining vulnerable areas, a geological and geotechnical vulnerability assessment of fossil cliffs to define protection buffers, and measures to retreat from risk areas to accommodate sea level rise.



Presenter *Jinty MacTavish, City Councilor, Dunedin City Council, New Zealand*

Developing adaptation frameworks, plans and policies in Dunedin, New Zealand

This presentation will outline the climate change adaptation work undertaken by the coastal city of Dunedin, focusing both on macro-level planning frameworks and on targeted responses in specific hotspots. A hazard-mapping project is currently underway to develop comprehensive planning responses to current and future hazards, and to translate these into rules in our new District Plan. In addition, the presentation will explain the results of our targeted adaptation assessment which builds on a vulnerability assessment identifying the city's top five climate change 'hotspots'. The latter is designed to complement regulatory responses and provide pathways for the Council and affected landowners to plan for change.

Further recommended reading

Fitzharris, B. (2010) Climate Change Impacts on Dunedin, Prepared for the Dunedin City Council, Dunedin
<http://www.dunedin.govt.nz>
