SESSION DESCRIPTION

D4 From national to local: Building urban resilience in Germany

Presentations

Date: Thursday, 27 June 2019
Time: 11:00-12:30
Rooms: S01-02

Language: English
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Organized by: ICLEI

OBJECTIVE

This session presents national and local efforts to build urban resilience in Germany. The session will address the global and national frameworks for disaster risk reduction and management and will link them to local implementation practices for resilience building, while in parallel showcasing practical examples of resilient constructions.

The first part of the session will present the links between global, national and local resilience policies. The session begins with the introduction of resilience building in Germany with the DKKV, followed by the presentation of the national framework for disaster risk reduction by the Head of Sendai National Focal Point of Germany. The firefighters of Bonn will explain the disaster risk evaluation of real scenarios along with the preparation and management strategies for preparedness against flooding.

The second part of the session showcases practical examples by KIT and BBK, addressing technical and scientific interventions to build resilient physical constructions, and innovative design for protective blast barriers.

OUTCOMES

- Participants gain understanding of the global and national frameworks that help building resilience at the local level in Germany;
- Participants gain understanding of local implementation of resilience in German cities through practical examples;
- Participants learn about the role physical structures play in adaptation strategies;
- Take this knowledge with them to apply in their own communities, cities and regions;

METHODOLOGY

- The facilitator provides an introduction to the session topic and contributors. **(5 minutes)**
- Each presentation is allotted 10 minutes. **(5 x 10 minutes)**
- The facilitator manages questions and answers. **(30 minutes)**
- Closing remarks by the facilitator. **(5 minutes)**

CONTRIBUTORS

Facilitator — *Vasileios Latinos, Officer, Climate Adaptation and Urban Resilience, ICLEI European Secretariat, Freiburg, Germany*

Presenter — *Benni Thiebes, Managing Director, German Committee for Disaster Reduction (DKKV), Bonn, Germany*

Resilience building in Germany and the role of the German Committee for Disaster Reduction (DKKV)

DKKV is a German platform for disaster risk reduction and connects actors from administration, science and practice to foster the exchange of new research ideas and best-practices. In cooperation with the city of Bonn, DKKV developed two field trips to highlight local activities dealing with water-related hazards. These include structural measures and the installation of an automatic early warning system to deal with flooding caused by strong rainfall events. Riverine floods are mitigated by dykes and reliable solutions for waste water management during floods events.

Presenter — *Peter Lauwe, Head of Sendai National Focal Point, Federal Office of Civil Protection and Disaster Assistance, Bonn, Germany*

Coherence: Enhancing national and local resilience

Coherence means bringing agendas like the Paris agreement and the Sendai Framework as well as topics and stakeholders closer together in order to reduce unnecessary overlap and enable synergy effects. Based on a national strategy on enhancing resilience agendas, topics and actors will be interconnected tighter than before. The instrument of Integrated Disaster Risk Management pursues the goal of systematically connecting stakeholders and topics. Various examples show the additional effort that needs to be put into Integrated Disaster Risk Management. They also show the added value that makes the investment worth it.

Presenter — *Jochen Stein, Chief Fire Officer, City of Bonn, Bonn, Germany*

The City of Bonn preparation and management of natural disasters

The presentation explains the preparation and management of natural disasters by providing examples of real scenarios of risk evaluation of flooding´s of the river Rhine and shows practical measures to cope with such disasters.

Presenter — *Andreas Gerdes, Scientific Head of KIT Innovation HUB, Karlsruher Institut für Technologie (KIT), Eggenstein-Leopoldshafen, Germany*

Technical Infrastructure resilience needs durability of physical constructions

The presentation connects the concept of life cycle management to the durability of physical structures, which is essential for disaster management and relief. The increasing vulnerability of physical structures is caused by technological problems with materials, changing environmental conditions and usage. Therefore, measures should

address material and process innovations, preventions concepts, life cycle management, training and education to enhance resilience and sustainability.

Presenter *Katharina Gerlach, Referentin, Federal Office of Civil Protection and Disaster Assistance (BBK), Bonn, Germany*

Experimental investigations of innovative blast barriers

The presentation focuses on the blast mitigating the effect of hedgerow plants and of metallic ring meshes in combination with water flow as modern protective structures to cope with the growing threat of terrorist attacks. These innovative protective structures fulfil these two major requirements functional effectiveness and architectural appealing design.