



SESSION DESCRIPTION

POSTER PRESENTATIONS

Date: Wednesday, 26 June, 2019

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CONTRIBUTORS

Presenter *Daniel Xie, Master's Student, University of Michigan, Michigan, United States*

Evaluating the Impacts of Sea-Level Rise and Storm Surges on Seychelles' Critical Infrastructure

As part of a landmark collaboration between the University of Michigan and the UNFCCC, our team produced an interactive story map detailing the risks presented by sea level rise and storm surge to the critical infrastructure to the island of Mahé, Seychelles. We believe that this story map is effective both as an educational tool and as a means to inform future development along coastal regions of the island.

Presenter *Sadeeb Simon Ottenburger, Scientist, Karlsruhe Institute of Technology (KIT), Eggenstein-Leopoldshafen, Germany*

Continuous and Urban Resilient Power Supply during Critical States

The ongoing transition of the power distribution system towards Smart Grids bears the chance to conceptually integrate principles of crisis prevention and management into power control mechanisms. Following this aspiration global criticality considered as a dynamic feature of infrastructures is a promising attribute that helps to bridge Smart Grids resilience and urban resilience in a sensible way. By applying genetic algorithms, fair and resilient power distribution mechanisms for dealing with critical network states are presented.

Presenter *Alexandra Köngeter, Evaluator, DEval - German Institute for Development Evaluation, Bonn, Germany*

Evaluating German ODA for climate change adaptation – framework and approach

Measures to adapt to climate change are becoming increasingly important in German development cooperation. However, we know little about the effectiveness of relevant development instruments across key development



sectors and regions. This is also due to the fact that impacts in the field of climate adaptation are methodologically difficult to assess due to a lack of standards. The German Institute for Development Evaluation (DEval) aims to reduce existing knowledge gaps and to contribute to evidence-based decision making by evaluating Germany's adaptation portfolio. This poster presents the framework and the approach of the evaluation

Presenter *Hsi-Tsung Lin, Section Chief, Department of Environmental Protection, Taoyuan City Government, Taoyuan City, Chinese Taipei*

Taoyuan Developing into a Low-Carbon Green City

Since 2015, Taoyuan has endeavored to develop into a low-carbon green city, and has promulgated the Autonomy Act and relevant sub-laws, launched Low-carbon Green City Flagship Project, developed climate change adaptation plans, and formed a promotion team and a consulting team in 2018. Furthermore, the bi-annual low-carbon green city meetings enabled the mayor and deputy mayors to control the implementation progress and status thereof, continuously ameliorate relevant strategy, and take better actions to implement the spirit of low-carbon green city.

Presenter *Ming-Cheng Chou, Section Chief, Department of Public Works, Taoyuan City Government, Taoyuan City, Chinese Taipei*

Pond Reactivation in Taoyuan City

Taoyuan is well-known as "City of Thousand Ponds". In order to develop the farmland irrigation facilities, the ancient people dug thousands of ponds scattered on Taoyuan Plateau and formed the featured landscapes. Owing to the urbanization development, they were gradually filled in or removed. The pond reactivation not only provided production, landscape, leisure and recreation, ecology, education and disaster/flood prevention, but also reflected the meanings of culture and history on social change.

Presenter *Tzu-Yi Pan, Chief Secretary, Department of Public Works, Taoyuan City Government, Taoyuan City, Chinese Taipei*

Taoyuan City Promoting Application of Recycled Aggregate on Public Constructions

Owing to the elimination of furnace slag in steel industry, the pavement stack in asphalt plant and the decontamination of waste incineration bottoms, Taoyuan performed a pilot operation of recycled aggregate with Industrial Development Bureau since 2016. Till 2018, the Construction Specifications of Department of Public Works, Taoyuan were completed, massively promoted to the redevelopment zone, the road construction for Bottle Opening Program and industrial Zone, and the road construction for Taoyuan Aerotropolis will be applied in the future, which can carry out the reduction of construction cost, industrial transfer, solve wellbeing issues, and fulfill recycling economy.



Presenter *Yen-Ping Chen, Section Officer, Department of Environmental Protection, Taoyuan City Government, Taoyuan City, Chinese Taipei*

Taoyuan City's Smart Disaster Prevention Strategy and Development

In recent years, Taiwan has been facing the flooding threat caused by torrential rain. The Taoyuan City Government has realized that engineering methods are not enough. They actively promote the five smart disaster prevention strategies, including the establishment of a dense water observation network, the development of a water disaster prevention information system, the strengthening of disaster early warning capabilities, the upgrading of traditional water conservancy equipment and combing people's efforts to prevent disasters, enabling Taoyuan City to "live in harmony with water" and become a resilient city that is not afraid of flooding.

Presenter *Kate Strachan, Professional Officer, ICLEI Africa Secretariat, Cape Town, South Africa*

Mapping nature for resilience in Uganda and Lilongwe