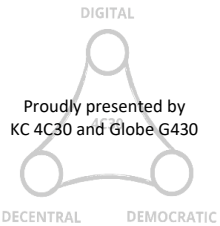


I'm the city savior/Mu City Savior: Preventing urban flooding and improving public services with a co-created digital solution



Potential Climate/ Disaster Impacts addressed and Justification for this Approach

Heavier rainfall and changing, less predictable rainfall patterns resulting from climate change coupled with inadequate disposal of solid waste (often directly into the drains) exacerbate this challenge. Mu City Savior allows citizens to report on identified critical points in the urban drainage system in real-time. This data, in turn, promotes an evidence-based cleaning schedule on behalf of municipal staff, which also considers data about affected population, business, health, and traffic, as well as hydrological data like normal predictions and regular rainfall data, type of drainage, etc. Over time, the accrued data provides decision-makers with evidence to adapt future urban planning in a climate-resilient and sustainable manner. The tool's name means "I am city savior" in Odia, the regional language of Odisha.

Process of Implementation

Mu City Savior is an interactive digital solution, designed to facilitate data exchange between citizens and the municipal administration in the maintenance and clearing of the city's (stormwater) drainage systems. Co-created, tested, and implemented in the city of Bhubaneswar in the Indian state of Odisha, it aims to support municipal urban stormwater management while raising awareness about climate change impacts on cities. Bhubaneswar and its citizens are prone to flooding during the seasonal monsoons.

Project Title

ICT-based Adaptation to Climate Change in Cities (IKI)

Project Number

2016.9014.8

Results and Impacts

The developed algorithm analyses the crowdsourced and statistical data, which is then sent to the Command and Control Center of the Bhubaneswar Smart City Limited (BSCL), where the digital solution has been integrated. In Bhubaneswar, the severity and repercussions of the flooding can be reported intuitively. Consecutively, the developed dashboard is utilized by municipal staff to enhance their drainage cleaning activities as well as improve public services.



TYPE OF APPROACH

Cooperation & Knowledge Sharing



COUNTRY

India



LEVEL OF INTERVENTION

(inter-)national, city, neighbourhood



TYPE OF RISK MANAGEMENT

prevention, resistance, transformation



MAIN HAZARDS ADDRESSED

Flood



URBAN FUNCTION PROTECTED

all



SPHERE OF INTERVENTION

socio-political sphere/ governance, economy, environment



RESOURCES REQUIRED

Overall budget: ca. EUR 500.000, including 1 national staff and local consulting companies



COOPERATION PARTNERS

City government, citizens of the cities of Bhubaneswar and Kochi



LINKS

<https://www.international-climate-initiative.com/en/project/ict-based-adaptation-to-climate-change-in-cities-17-ii-142-global-g-ikt-basierte-anpassung-in-staedten/>
<https://www.youtube.com/@ict-aglobalprogram9323>