

Sustainable Urban Drainage System (SuDS)

Potential Climate/ Disaster Impacts addressed and Justification for this Approach

The climate in Dong Hoi is characterized by hot and dry summers, followed by periods of heavy rainfall and tropical typhoons. When rainfall is unable to infiltrate into the ground, runoff water accumulates in low lying areas, which frequently results in large-scale flood events and localized, short-term flooding of infrastructure. The large extent of sealed areas intensifies the problem. The SuDS model is a 'green-grey' infrastructure intervention that reduces the impacts of floods in urban areas.

Process of Implementation

The project followed the following steps:

- (1) approach selection,
- (2) urban planning review,
- (3) site survey,
- (4) project location agreement with local government,
- (5) economic technical report,
- (6) construction,
- (7) operational manual,
- (8) upscaling

Project Title

Support to Viet Nam for the Implementation of the Paris Agreement

Project Number

2017.9010.4

Results and Impacts

The project area at the intersection island of Huu Nghi Street-Ly Thuong Kiet Street in Dong Hoi city compromised 352 square metres with a rainwater storage capacity of 150 cubic metres. The impacted basin area is 1.45 hectares. 74.86 square metres of permeable pavement were renovated. Roughly 2,000 local residents are directly benefitting from this measure.



TYPE OF APPROACH

Implementation of technical solution



COUNTRY

Vietnam



LEVEL OF INTERVENTION

city, neighbourhood



TYPE OF RISK MANAGEMENT

prevention



MAIN HAZARDS ADDRESSED

flood



URBAN FUNCTION PROTECTED

public security/ civil protection, transportation



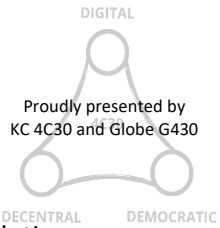
SPHERE OF INTERVENTION

socio-political sphere/ governance, environment



COOPERATION PARTNERS

Quang Binh Environment and Urban Development Joint Stock Company, Quang Binh Department of construction (DOC)



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