

Effective international knowledge exchange to rehabilitate rivers in urban delta's: IWASTO case study in Metropolitan Manila

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Abstract. Climate change and urbanization will increase the frequency and magnitude of urban flooding and water quality problems in many regions of the world. In coastal and low-lying vulnerable delta cities, such as the Rotterdam Metropolitan region and Metropolitan Manila, where urbanization is often high, there has been an increase in vulnerability. New approaches are needed to address the current and future effects of climate change and at the same time increase urban quality, reduce vulnerability and increase water quality. New arrangements for international cooperation are needed in order to address these problems. International knowledge exchange is promoted in projects like 'IWASTO', where several organisations from the Philippines and The Netherlands join forces on a specific domain, namely the Pateros river rehabilitation with the aim to make the river clean and healthy and introduce new innovations for water quality monitoring and waste collection. The abbreviation RDM stands for Research Design and Manufacturing. The RDM-approach in the pilot study "IWASTO" was effective: several local organisations have shown interest in this international knowledge exchange. One of the concrete results was the development of the 'Longanisa', a waste collection tool which was designed by a Dutch-Philippine student team during their international intercultural research project in Manila in April 2016, which will be constructed at the end of 2016.

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