

## **Flood Management in Malaysia: SMART**

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**Abstract.** Kuala Lumpur, the capital city of Malaysia is situated in the Klang river basin. Due to its geographic location and tropical climate, Kuala Lumpur is affected by seasonal monsoons and severe thunderstorms frequently cause flooding. To protect the city center from being inundated and to ease traffic congestion in the city, Malaysia's government built a dual-function Stormwater Management and Roadway Tunnel (SMART). The presentation will describe the operations of the tunnel and its performance in alleviating floods in the city center. Information and data that was obtained from the Department of Irrigation & Drainage of Malaysia (DID) shows that the tunnel costing US\$ 515 million will prevent US\$ 1.58 billion of possible flood damage in three decades. Flooding concerns after the SMART construction are due to increasing urban development and human activity which increase the frequency and magnitude of flash floods.

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