

Decision Making Tools:

City Water Drain

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From a 1D Network to 2D Model of Urban Flooding

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Why?

Climate variability is leading to more dynamic precipitation.

Existing flood management wasn't designed to deal with the greater flood risk

The costs of flood damage are high but with good design do not have to be paid!

How?

By applying simplified hydraulic modelling with downscaled precipitation models and appropriately detailed terrain modelling it is possible to assess pluvial and fluvial risks and to mitigate for these

From City Water Drain
 to a non-inertial 2D
 flooding model
 using a DTM

