

Fast intervention assessment in Melbourne CBD

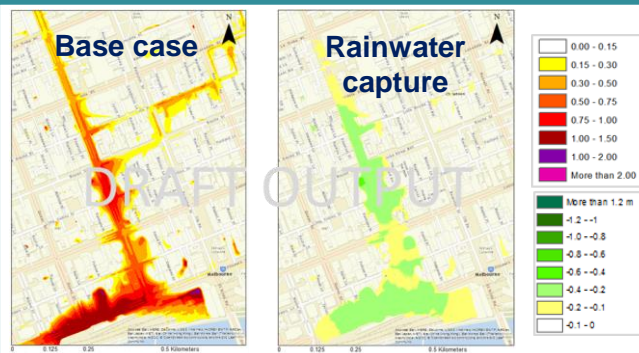
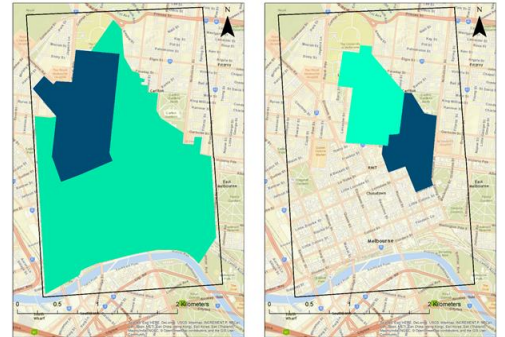
A collaboration demonstrating a fast flood intervention screening tool to provide decision support in the Elizabeth Street catchment.

Workshopped, simulated and analysed 75 scenarios during a two week project

15 interventions assessed including: WSUD, green infrastructure, drainage, rain capture and park expansion.



Average simulation time of 2.1 hours per scenario, at a catchment resolution of 1 m².



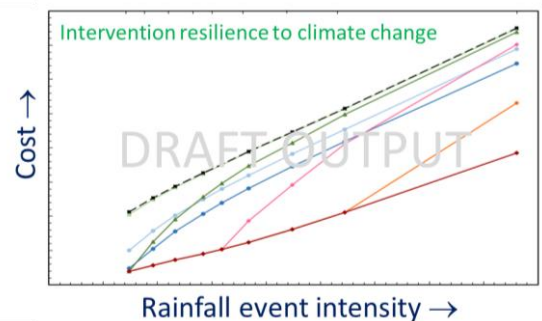
Measured effect of each strategy on peak flood depth and velocity

Visualise and evidence risk management and intervention resilience to extreme events. Comparison of depth, extent and velocity supplied as flood mapping.

Opportunity to expand analysis to include cost effectiveness and sustainability measures

Outputs can be expanded to estimate asset life cost effectiveness at a catchment and property scale.

Future work has potential to include sustainability and liveability measures as part of decision support.



For more information or to discuss opportunities for collaboration
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