

Program D: Adoption Pathways | Project D1.5 | Project duration: July 2015 - June 2017

# Water sensitive cities modelling toolkit

# Overview

This project builds on the Water Sensitive Cities Modelling Toolkit developed in the project "Integration and demonstration through urban design" (Project D1.1).

The Toolkit is a modelling tool that enables the multiple benefits of a water sensitive urban design project to be quantified. This supports strategic planning and the development of both robust and water sensitive business cases.

### Key outcomes

This project will refine Version 2 beta of the Toolkit developed in Project D1.1 based on testing by the CRCWSC and industry feedback to:

- Develop Version 3 beta that incorporates functionality based on the CRCWSC's Tranche 1 research.
- Refine this version using case studies from different Australian geo-climatic and urban development contexts.
- Put structures in place to provide industry training and on-going user support and development of the Toolkit.







## Outlook

This project will:

- Develop a product development plan for the Toolkit.
- Improve our understanding of industry participants' modelling needs of and how the Toolkit can support these needs.
- Validate existing Toolkit modules within different geo-climatic and urban development contexts (e.g. finding the practical limits of module assumptions).
- Incorporate the database of fine spatial and temporal resolution rainfall data predictions developed in the CRCWSC project "Urban rainfall in a changing climate" (Project B1.1).

- Develop an additional module linking key biophysical performance indicators to non-market economic valuation using the outputs from the CRCWSC Project A1.1.
- Refine the useability of Toolkit by working with end-users in a range of demonstration, case study and research synthesis projects.
- Train industry participants in the practice of assessing the multiple benefits of water projects and applying the Toolkit to quantify these benefits.
- Develop partnerships with relevant software development organisations to build a platform for post-CRCWSC Toolkit development and user support.





#### About the Cooperative Research Centre for Water Sensitive Cities

The Cooperative Research Centre for Water Sensitive Cities (CRCWSC) brings together interdisciplinary research expertise and thought-leadership from Australia and the world to address current urban water management challenges facing our cities and regions. In collaboration with over 80 research, government and industry partners, it develops and synthesises knowledge into powerful tools and influences key players aiming to achieve sustainable, resilient and liveable water sensitive cities.

### Further information

Level 1, 8 Scenic Blvd Monash University, Clayton Victoria 3800, Australia

Dr. Peter Bach Monash Univer



info@crcwsc.org.au

