

The CRC for Water Sensitive Cities presents:

A framework for urban wetland management in the water sensitive city

9.00 - 9.10 Introduction + outcomes workshop 1

9.10 - 9.30 **Presentation** (by Kevin Ochieng): Adaptation strategies

- Surface-groundwater model approach.
- Regional and local groundwater abstraction
- Uncertainty

9.30 - 9.45 **Group Discussion 1**

- Use of conceptual models to inform adaptive management
- Changing objectives and priorities

9.45 - 10.00 Discussion of group activity

10.00 - 10.10 **Presentation:** Framework for transformative governance
The implementation of adaptation strategies across scales and different levels of governance. This sets out to bring the objectives of water management, wetland management and urban planning, under the same perspective and to include the wider benefit value that wetland protection can bring across urban planning and design.

10.10 - 10.25 **Group Discussion 2**

- What measures have priority (quick wins) and can be taken without legal constraints?
- What measures (long term solutions) can be taken by changing legislation/policy?

10.25 - 10.40 Discussion of group activity: consensus, prioritisation, alternatives, implementation strategy

10.40 - 10.50 **Plenary discussion**
Wetland management – Uncertainty, common aims, priorities, and further actions

10.50 - 11.00 Close / Where to next? New management plan?

Date: Thursday 13 July 2017

Time: 9am-11am

Location: Dep. of Parks and Wildlife, Cnr 2 Australia II Drive and Hackett Drive, Crawley WA 6009

About the event

The Cooperative Research Centre for Water Sensitive Cities (CRCWSC) has been working with its partners from government and private industry to develop novel scenario assessment and decision support tools that help to address the complexity of managing water in a world faced with increasing population growth and changing land uses patterns; increasing climate variability; and a tightening economic environment.

This workshop has been designed to share and discuss, identify and prioritise adaptation strategies for wetland management. With stakeholders we aim to present an implementation framework for adaptation strategies that considers institutional scales, responsibilities, and legal requirements.

Speakers

Amar Nanda is a PhD Student at The University of Western Australia. He has experience as a researcher and policy maker in urban soil and water management in The Netherlands as well as in an international project. In the CRCWSC, Amar works in program B4.2 on Flood Adaptation and the adaptation of wetland management under climate change.

Kevin Ochieng studies Land- and Water Management at the Van Hall Larenstein University of Applied Sciences, in The Netherlands. As part of his third year and major in Hydrology, he has conducted his internship at UWA. His project focussed on surface-groundwater modelling and the effects of lake water levels under climate change and limited groundwater abstraction.

The shared problem

How to engage industry and community to provide adequate wetland management. Delivering water sensitive cities will require water systems management to become more collaborative, adaptive and responsive to local conditions. But how can stakeholders actively plan for wetland management in policy and practice? What is the role of transformative governance? Are cross-sectoral approaches supporting governments in long-term water system planning and short-term solution identification? Drawing on a case study of Lake Forrestdale in Western Australia with a sectoral vision and strategy for Perth. This section introduces participants to

adaptation strategies for wetland planning processes and discusses the role of transformative governance for implementing solutions.

Participant discussion

This session will outline adaptation and implementation strategies for wetland management strategies. Consensus, perspectives, and transformative governance are critical to successfully implement solutions within an interdisciplinary structure that is engaged with the community.

Applying adaptation tipping points

Adaptation tipping points - When to adapt to uncertain ecological impacts.

This session will introduce a step-by-step approach for identifying management aimed at increasing resilience against droughts. Central to the approach are performance thresholds, such as drought duration and ecological impact or tolerability thresholds for ecological communities. When a performance threshold is reached, known as an adaptation tipping point, additional actions are needed to reach the defined objectives. What are critical objectives, thresholds and trends for wetland management? The session will provide participants how to work with determining adequate wetland management.

Alternative interventions

How to identify ecosystem risks consequences of alternative urban planning interventions. What are the policy/legislation constraints on different levels of governance? Landscape to provide multiple benefits and a facilitated discussion on new directions in wetland management seeking to meet the needs of a range of stakeholders and the implications to current strategies or new strategies.