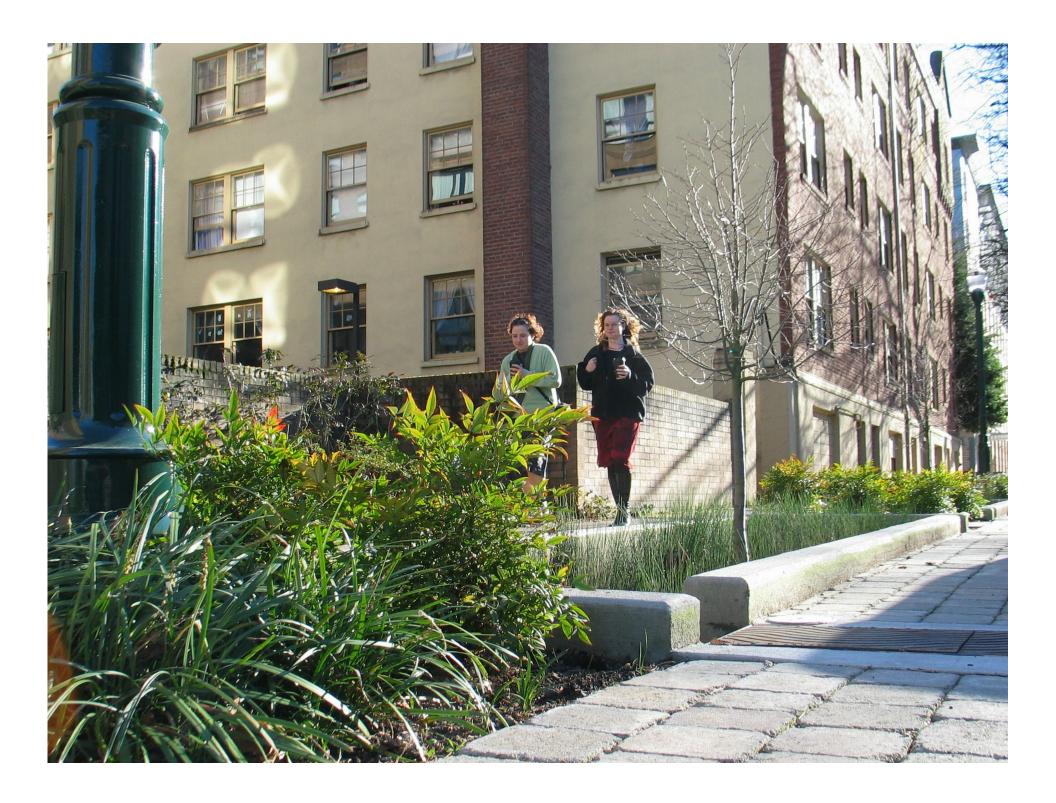
C:\Alan\g\8000 WATER BY DESIGN\8300 - Knowledge Building\8303 - Communication, Marketing and Branding\!WBD_branding\Inkahoots\Water_by_Design_logo(CMYK).jpg

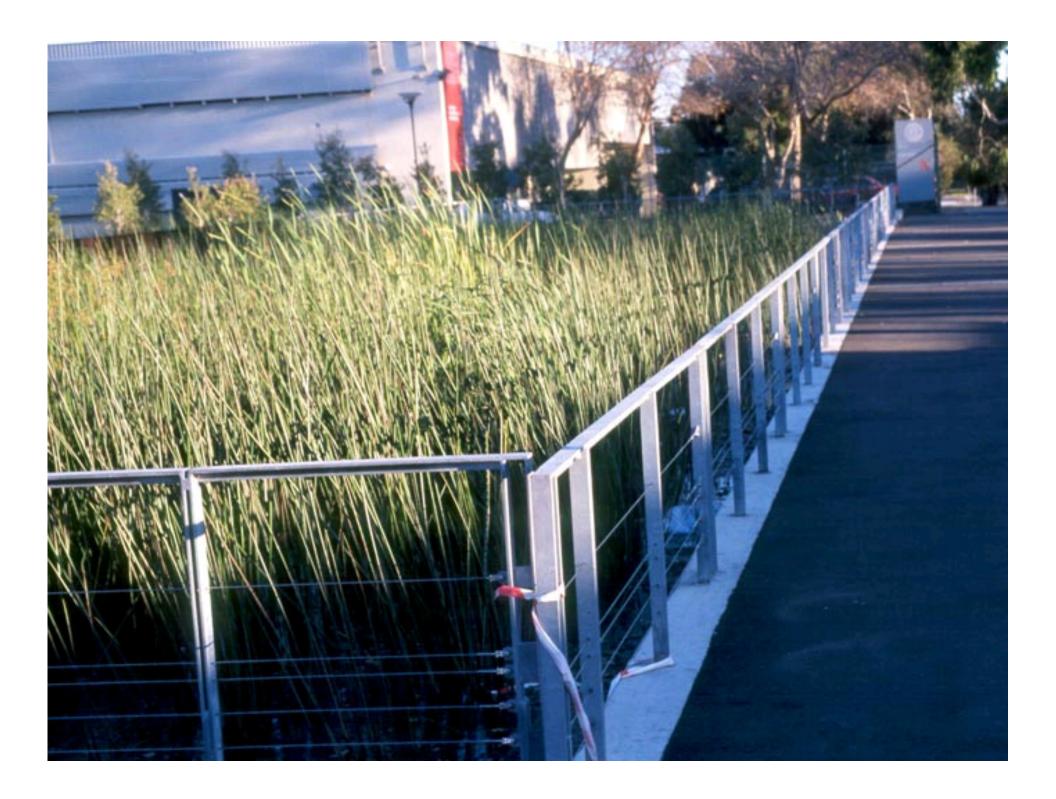
Design of a Best Practice Sustainable Urban Water Capacity Building Program

Alan Hoban













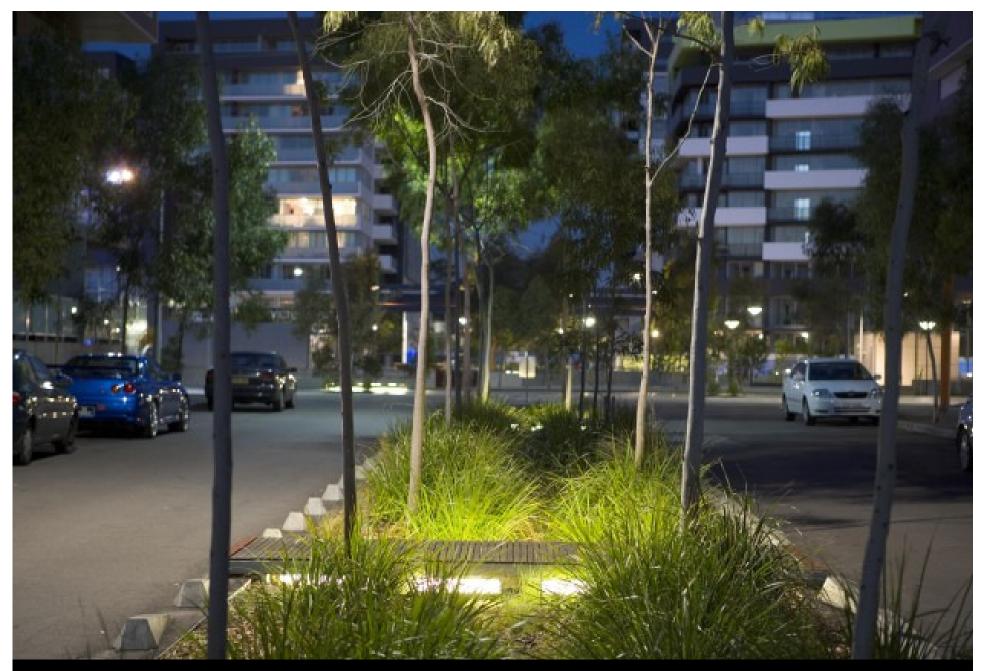
Little Bourke Street, Melbourne



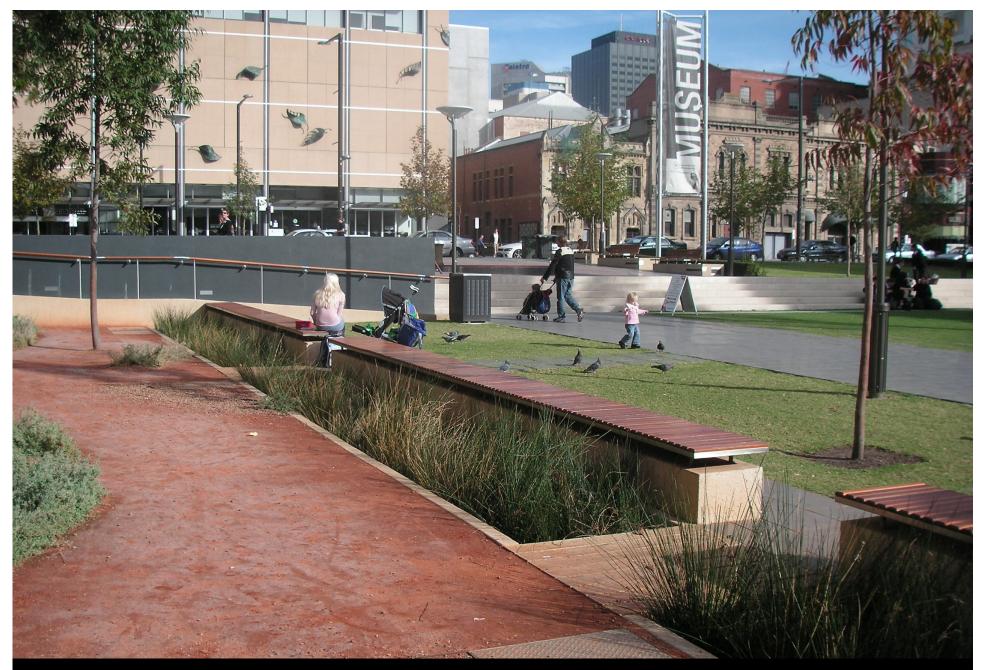








Victoria Park, Sydney



Adelaide Museum Forecourt







The good, the bad and the...

























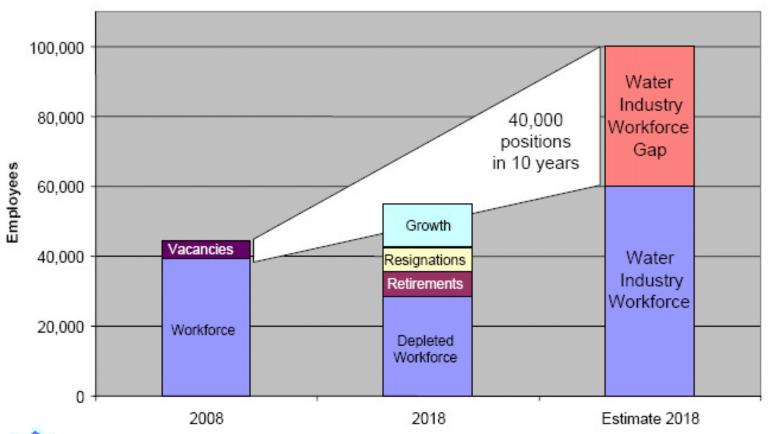






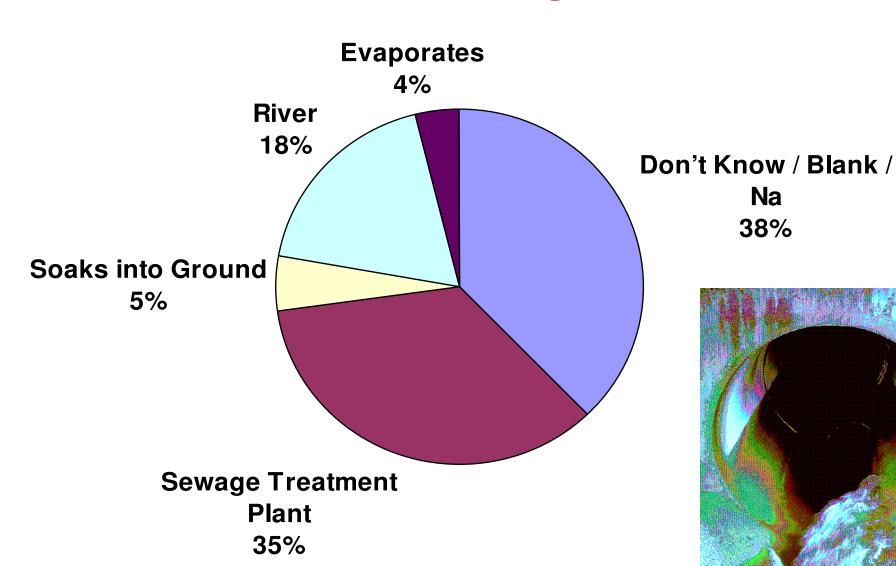
National Water Skills Audit

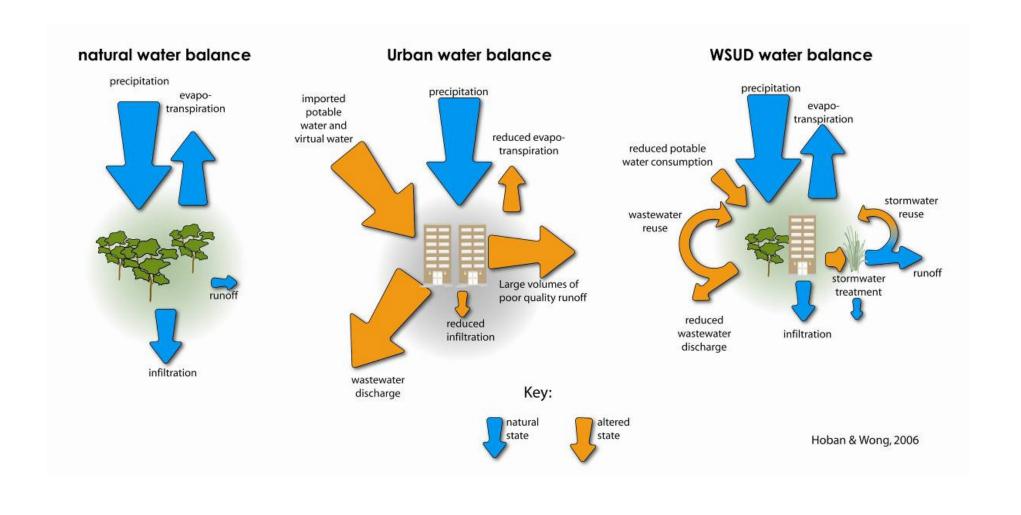
Projected Workforce and Gaps – 2018, additional factors





Where does rainwater go?

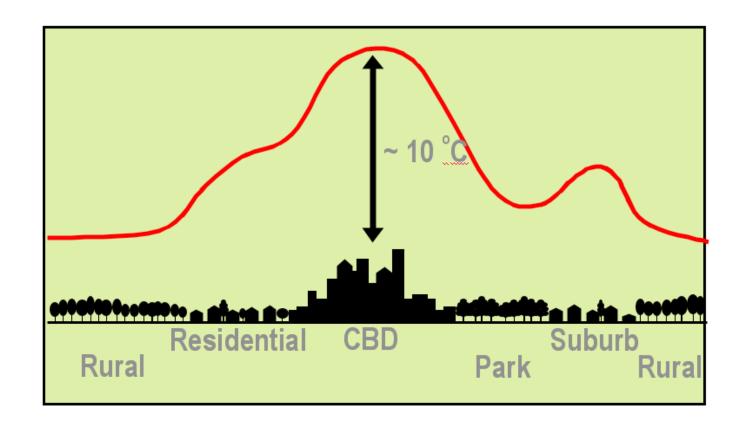


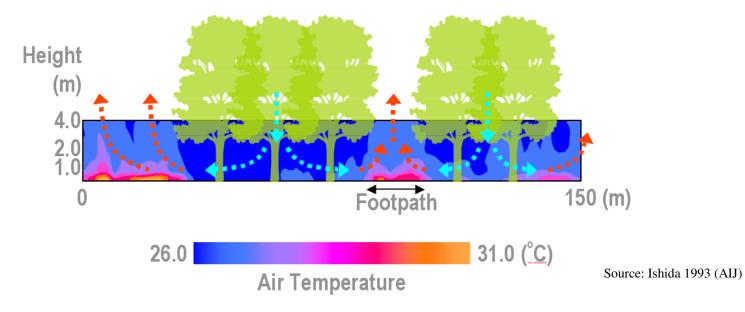


× IWCM		

× IWCM_WSUD	





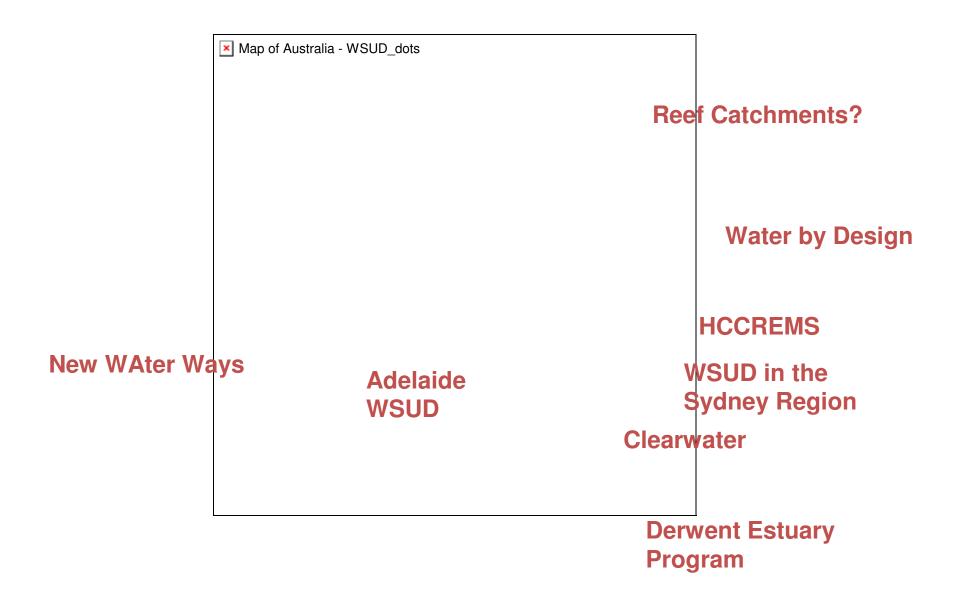


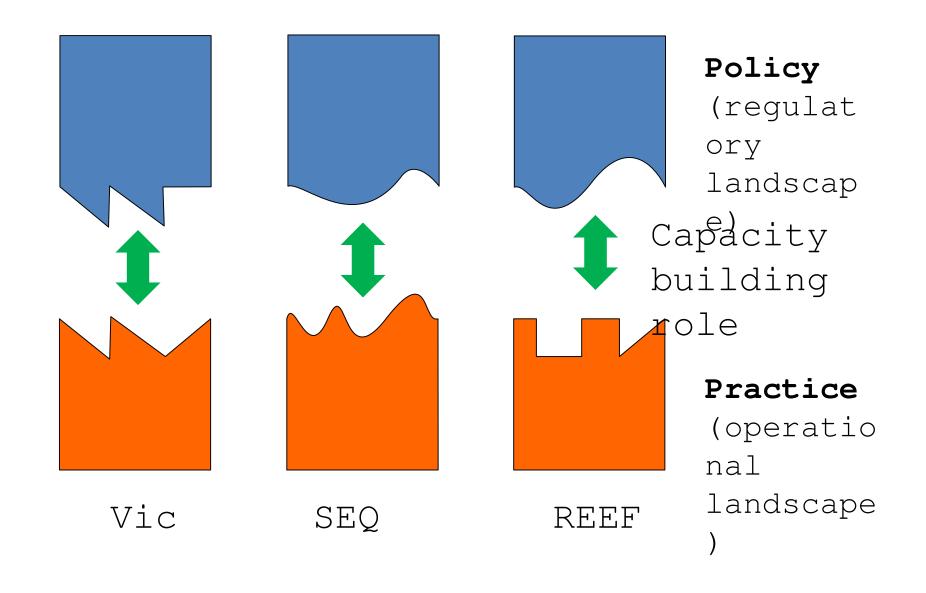


Temperature (°C) 50

What is capacity building?

National Consortium of Capacity Building Programs





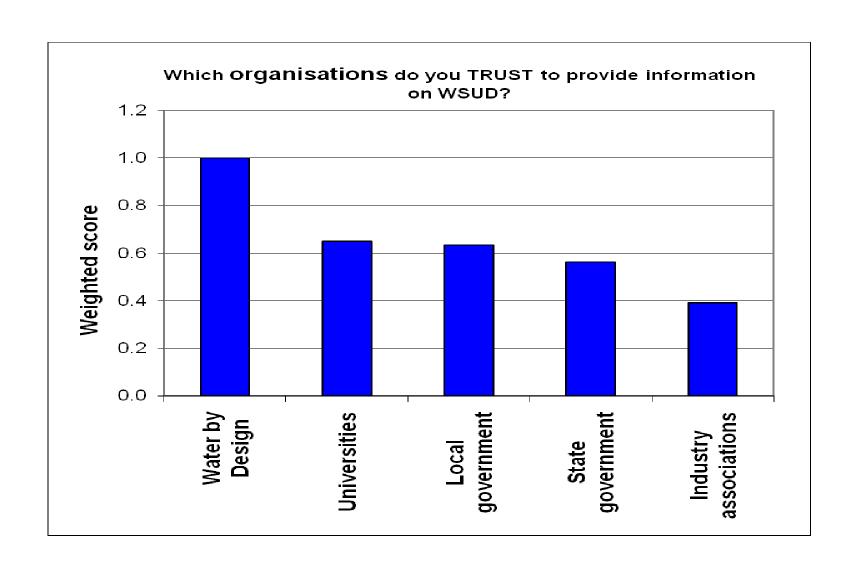
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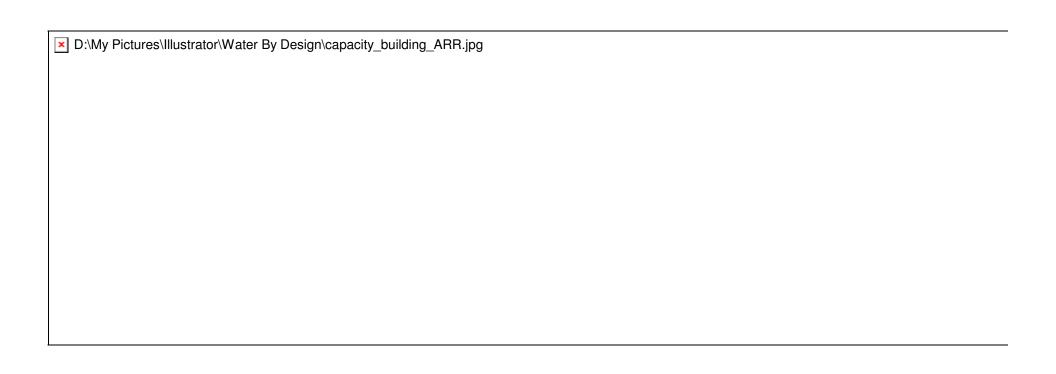
Governance

Steering Committee

- 1. Department of Infrastructure and Planning
- 2. Dept of Environment & Resource Management
- 3. Queensland Water Commission
- 4. Brisbane City Council
- 5. Gold Coast City Council
- 6. Sunshine Coast City Council
- 7. Ipswich City Council
- 8. Engineers Australia
- 9. Stormwater Industry Association (SIA)
- 10. Queensland Water Directorate
- 11. Urban Development Institute of Australia (UDIA)
- 12. Australian Institute of Landscape Architects (AILA)
- 13. Institute of Public Works Engineers Australia (IPWEA)
- 14. Environment Institute of Australia and New Zealand (EIANZ)
- 15. Local Government Association of Queensland (LGAQ)

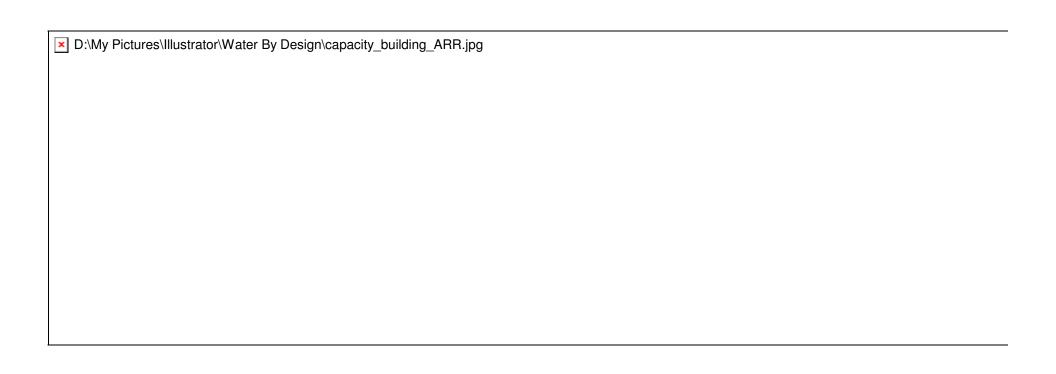






Urban Stormwater Best Practice Environmental Management Guidelines Large or complex **Small and simple** developments developments Concept Design Guidelines **MUSIC Modelling Guidelines** Deemed to Comply Solutions Technical Design Guidelines **Standard Drawings Erosion & Sediment Control Guidelines** Construction and Establishment Guidelines **Asset Management Guidelines***

^{*} Available 2010







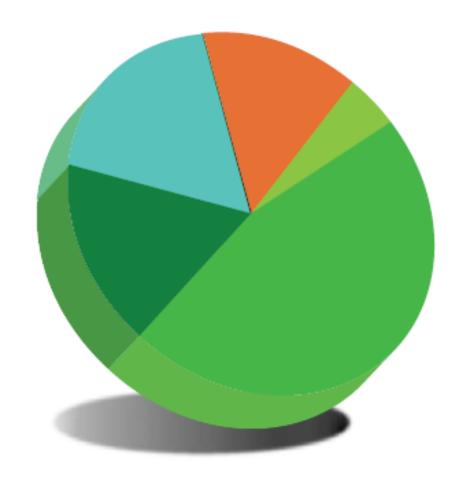




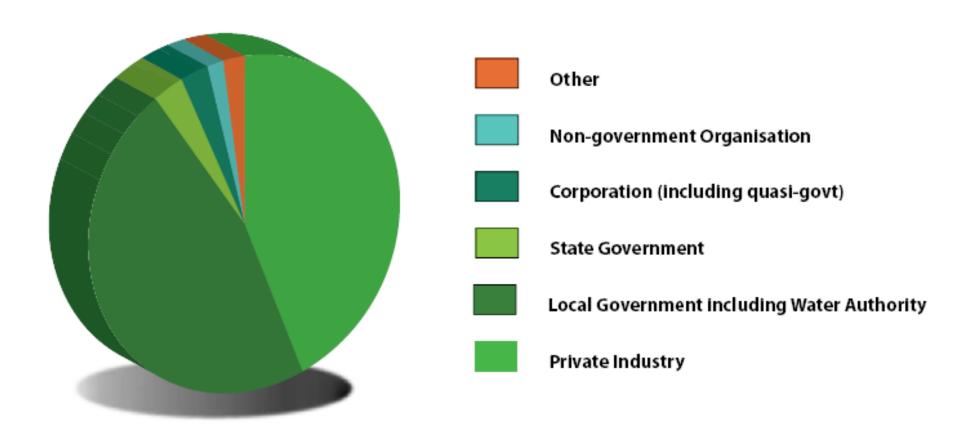


Attendance by discipline



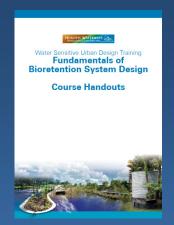


Attendance by sector



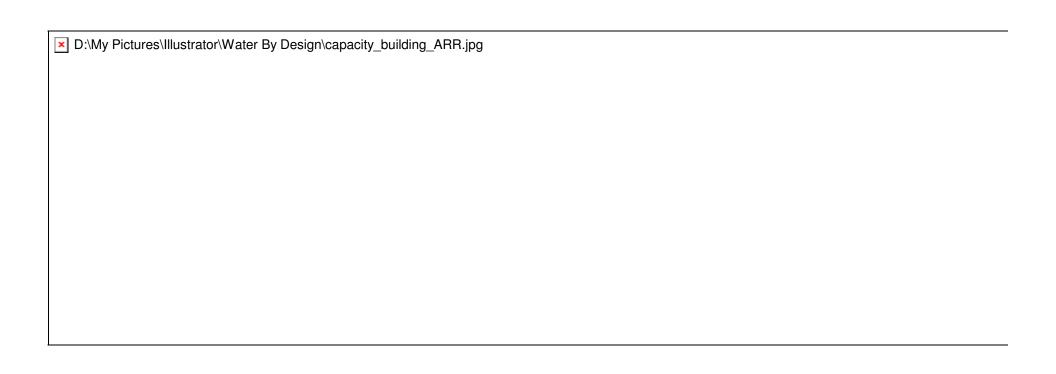
Training Modules

- Introduction to Water Sensitive Urban Design
- WSUD Policy & Regulatory Framework
- Conceptual Design Approaches
- Fundamentals of Bioretention Basin Design Advanced Bioretention Design
- Fundamentals of Constructed Stormwater Wetland Design Advanced Constructed Stormwater Wetland Design
- Fundamentals of Swale and Sediment Basin Design
- MUSIC Modelling for Development Assessment
- Construction and Establishment
- Sediment and Erosion Control (via IESC)
- Maintenance of Vegetated Stormwater Management Systems



Comments...

- Very comprehensive & practical
- Experienced water sensitive urban design experts
- Would love to learn more!
- Overall this was one of the best seminars I have attended



If you want to go faster, go alone

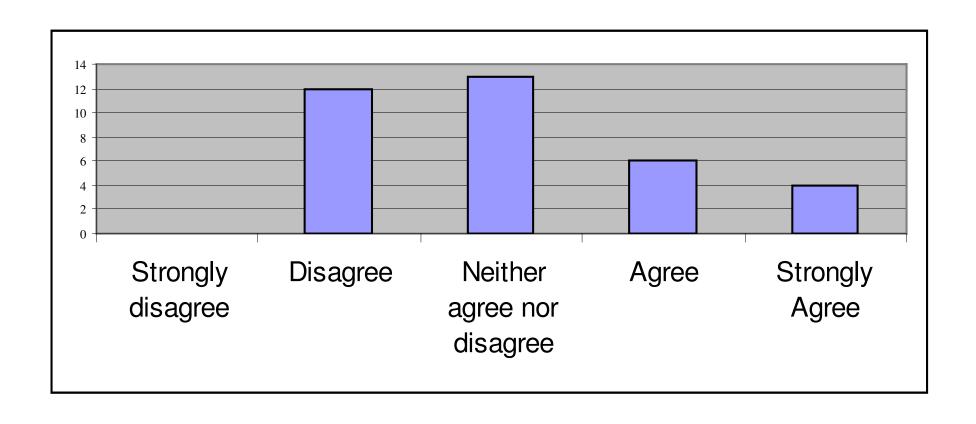
If you want to go further, go together







I feel pressure to approve developments that do not implement best practice WSUD.



My workload limits my ability to adequately assess WSUD aspects of development applications.

