Key Activities for 2016/17

• Completing Tranche 1 projects
• Translating Tranche 1 research outputs into relevant knowledge tools (e.g. policy notes, case studies etc…)
• Proactively contribute to policy reform processes
• Initiating the first Tranche 2 projects and development of the on-going program
• Testing and enhancing WSC Tools and Products
• Commence development of regional WSC Transition Strategies
• Evolution of the Regional Advisory Panels
• Continue research synthesis activities that establish the foundation for integrated, regional WSC solutions
• Transition of the CRCWSC’s governance to support the transition and implementation of WSC outcomes
Tranche 1 Projects continuing in 2016/17

Current project teams will assess opportunities for the application of Tranche 1 project outputs into the ‘Project Ideas’ identified by the RAPs and their transition into Tranche 2 Projects

Key Tranche 1 Projects continuing in 2016/17 are:

• A4.2 – Mapping WSC scenarios
• B1.2 – Catchment-scale landscape planning for WS Cities-regions
• B2.2/3 – Protection & restoration of urban freshwater ecosystems
• C2.1 – Resource recovery from wastewater
• C3.1 – Managing interactions between decentralised & centralised water systems
• C4.1 – Integrated multi-functional urban water systems
• C5.1 – Intelligent urban water systems
• D5.1 – Urban intensification & green infrastructure towards a WSC
Tranche 2 Projects and Activities

CRCWSC Strategic Plan

Integrated Research
- Integrated Research Project 1
- Integrated Research Project 2
- Integrated Research Project 3

Development
- WSC Tools & Products
- Knowledge Transition Tools & Services
- Synthesis Activities
- Comms & Marketing

Regional Implementation
- Regional Project 1
- Regional Project 2
- Regional Project 3

Influence
- Melbourne WSC Transition Strategy
- Perth WSC Transition Strategy
- Other WSC Transition Strategy
- Other Regional Projects

CRCWSC Operations

CRCWSC Long Term Outcomes

Industry Outcomes | Adoption
Tranche 2 Project Types

- Project Teams will comprise both industry and research members
- Four types of T2 Projects are proposed to be developed from the RAP project ideas and the Research Activities:
  - **Integrated Research Projects (IRP)** – national projects and researcher lead
  - **WSC Tools & Products Development Projects (TAP)** – examples are DAnCE4Water, integrated WSC Toolkit and WSC Index, industry or researcher lead and will have potential commercial value
  - **Regional Projects (REG)** – regional focus, industry lead with transferability of outputs to other regions. Potential to have additional investment from local stakeholders
  - **WSC Transition Strategies** – a national WSC Transition Strategy framework, researcher lead, that will be tailored to the local situation. Local WSC Transition Strategies will be RAP led and managed by the Regional Manager
Tranche 2 Project Development

- National priorities of Research Activities based on RAP feedback
  - Overall Priorities of Research Activities across all RAPs

<table>
<thead>
<tr>
<th>Ranking*</th>
<th>Research Activity No.</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Very high</td>
<td>1.3</td>
<td>Developing community support for water sensitive innovation</td>
</tr>
<tr>
<td>Very high</td>
<td>5.1</td>
<td>Economic values, evaluation and incentives</td>
</tr>
<tr>
<td>High</td>
<td>1.4</td>
<td>Strategic policy influence for water sensitive cities</td>
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<tr>
<td>High</td>
<td>2.2</td>
<td>Integrating WSC values across urban planning, urban design and implementation activities at sub-city scales</td>
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<tr>
<td>Medium</td>
<td>1.5</td>
<td>Transition laboratories for water sensitive cities</td>
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<tr>
<td>Medium</td>
<td>2.1</td>
<td>Operationalising Visions &amp; Narrative through “joined up” planning and implementation processes</td>
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<tr>
<td>Medium</td>
<td>2.5</td>
<td>Operationalising and modelling urban water mass balance for strategic planning</td>
</tr>
<tr>
<td>Medium</td>
<td>3.1</td>
<td>In-fill developments</td>
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<tr>
<td>Medium</td>
<td>3.2</td>
<td>Urban microclimate</td>
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</tbody>
</table>
Tranche 2 Project Development

- National priorities of Research Activities based on RAP feedback
  - Other identified Research Activities of importance to particular RAPs

<table>
<thead>
<tr>
<th>Ranking*</th>
<th>Research Activity No.</th>
<th>Title</th>
<th>RAP</th>
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<tbody>
<tr>
<td>High</td>
<td>3.3</td>
<td>WSUD Groundwater Science</td>
<td>WA</td>
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<tr>
<td>Medium/high</td>
<td>5.2</td>
<td>Evaluation to inform compelling narratives &amp; decision-making – WSC Integrated Modelling</td>
<td>QLD &amp; NSW</td>
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<tr>
<td>Medium/high</td>
<td>3.4</td>
<td>Maintenance and sustainability of WSUD systems</td>
<td>VIC &amp; QLD</td>
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<tr>
<td>Medium/high</td>
<td>1.1</td>
<td>Enabling the development of water sensitive institutions</td>
<td>WA</td>
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Tranche 2 Project Structure

Integrated Research (IRP)
- IRP 1: WSC Transition Strategy
- IRP 2 ...
- IRP 3 ...

Regional Implementation (REG)
- Regional Project 1
- Regional Project 2
- Regional Project 3
- Other Regional Projects
Proposed Tranche 2 Integrated Research Projects (IRP)

Projects that will commence in 2016/17:

**IRP1: WSC Transition Strategy and Implementation Plans**
- **Aim:** Develop WSC Transition Strategies for each RAP region with strong alignment of vision and support across all relevant stakeholders
- **Output:** WSC Transition Strategies and Implementation Plans for each RAP region to outline shared pathway towards overall beneficial outcomes

**IRP2: Comprehensive Economic Evaluation Framework**
- **Aim:** Create an agreed evaluation framework to identify economic, environmental and community values of water-related investments
- **Output:** Accepted and aligned evaluation framework that is applied to business case development and decision making at multiple levels in public and private sector organisations
Proposed T2 Integrated Research Projects (IRP)

Project Proposals will be developed for the following projects in 2016/17:

IRP3: Evidence-based integrated urban planning across different scales
• **Aim:** Enable integrated planning processes across different scales and jurisdictions utilising knowledge-based evidence as key input
• **Output:** Policy development and implementation framework that supports and demonstrates the application and value of evidence based integrated planning at different scales

IRP4: Achieving WSC outcomes for in-fill developments
• **Aim:** Developing solutions that deliver overall beneficial WSC outcomes for in-fill developments at different scales
• **Output:** Innovative solutions and integrated strategies across policy, regulatory, financial, technology and community approaches to achieve positive WSC outcomes for in-fill developments

IRP5: Knowledge-based WSC solutions for groundwater impacted developments
• **Aim:** Understanding the impact and generating WSC solutions for developments in regions with high groundwater tables.
• **Output:** Guidelines and innovative solutions that achieve effective WSC outcomes for groundwater impacted developments
Example of Project Interactions – IRP1

Integrated Research Project IRP1: WSC Transition Strategies and Implementation Plans

Knowledge generation/research activities

Integrated co-development

Generic WSC Transition Strategy and Implementation Plan (output)

Knowledge Translation Tools & Services

Tools & Products

Application/testing of tools

Adaption of output

Application of tools and products

WA - Advancing the Vision

VIC – Greening Bendigo

QLD - Transition Plan for SEQ

NSW – Developing a Common Vision

Regional WSC Transition Strategies and Implementation Plans

Tranche 1 Project Outputs
Proposed Tools and Products (TAP)

- 2016/17 funding will complete the development of the following tools, including testing (and capacity building) in pilot projects and synthesis activities:
  - WSC Index
  - WSC Toolkit

- The following Tranche 1 Tools and Products will also be tested, during 2016/17, in projects and synthesis activities:
  - DAnCE4Water modelling tool
  - Urban microclimate model

- Other Tools and Products from Tranche 1 Project outputs and industry needs
## Tranche 2 Development Timeline FY1617

<table>
<thead>
<tr>
<th>Project/Program</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
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<tbody>
<tr>
<td>IRP1: WSC Transition Strategies</td>
<td>AC &amp; EPRG Reviews; Board approval</td>
<td>Commencement</td>
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<td>IRP2: Economic Evaluation Framework</td>
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<td>IRP3: Integrated Urban Planning</td>
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<td>IRP4: In-fill Developments</td>
<td>Scoping and planning</td>
<td>Proposal development</td>
<td>AC &amp; EPRG Reviews; Board approval</td>
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<td>IRP5: WSC Solutions for Groundwater-affected areas</td>
<td>Scoping and planning</td>
<td>Proposal development</td>
<td>AC &amp; EPRG Reviews; Board approval</td>
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<tr>
<td>Tools and Products (TAP) Program</td>
<td>Planning/proposal development</td>
<td>AC &amp; EPRG Reviews; Board approval</td>
<td>Commencement</td>
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### Examples of Regional Project Structures

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<thead>
<tr>
<th>Project Type</th>
<th>Project Name</th>
<th>Location</th>
<th>Knowledge Application</th>
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<tr>
<td>WSC Transition Strategy IRP1</td>
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<td>Economic Eval IRP2</td>
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<td>In-fill Dev’ts IRP4</td>
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<td>co-development/</td>
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<td>Groundwater IRP5</td>
<td>Groundwater IRP5</td>
<td>Knowledge</td>
<td>testing /</td>
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<td>case studies</td>
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#### Tools & Products

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<th>Tools &amp; Products</th>
<th>WSC Transition Strategy IRP1</th>
<th>Economic Eval IRP2</th>
<th>Integrated Planning IRP3</th>
<th>In-fill Dev’ts IRP4</th>
<th>Groundwater IRP5</th>
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<tr>
<td>TAP1 WSC Index</td>
<td>TAP5 Piped system</td>
<td>TAP2 Toolkit</td>
<td>TAP3 DAnCE4Water</td>
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<td>TAP6 Microclimate</td>
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*WSC = Water Sensitive Cities*