Regional Advisory Panel

Meeting Minutes

Attendees

<table>
<thead>
<tr>
<th>Attendee</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greg Claydon</td>
<td>(Inaugural Chair) CRC for Water Sensitive Cities</td>
</tr>
<tr>
<td>Anas Ghadouani</td>
<td>CRC for Water Sensitive Cities</td>
</tr>
<tr>
<td>Antonietta Torre</td>
<td>Department of Water</td>
</tr>
<tr>
<td>Max Hipkins</td>
<td>City of Nedlands</td>
</tr>
<tr>
<td>Jennifer Stritzke</td>
<td>Department of Parks and Wildlife</td>
</tr>
<tr>
<td>Giles Pickard</td>
<td>City of Subiaco</td>
</tr>
<tr>
<td>Ben Harvey</td>
<td>Department of Planning</td>
</tr>
<tr>
<td>Greg Ryan</td>
<td>LandCorp</td>
</tr>
<tr>
<td>Sergey Volotovskiy</td>
<td>Water Corporation</td>
</tr>
<tr>
<td>Naomi Rakela</td>
<td>EMRC</td>
</tr>
<tr>
<td>John Savell</td>
<td>Department of Housing</td>
</tr>
<tr>
<td>Shelley Shepherd</td>
<td>New WAter Ways</td>
</tr>
<tr>
<td>Jurg Keller</td>
<td>CRC for Water Sensitive Cities</td>
</tr>
<tr>
<td>Adri Dharma</td>
<td>CRC for Water Sensitive Cities</td>
</tr>
<tr>
<td>Bruce Young</td>
<td>UDIA</td>
</tr>
<tr>
<td>David Horn</td>
<td>GHD</td>
</tr>
</tbody>
</table>

Apologies

<table>
<thead>
<tr>
<th>Apologies</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bruce Young</td>
<td>UDIA</td>
</tr>
<tr>
<td>David Horn</td>
<td>GHD</td>
</tr>
</tbody>
</table>

Item No. | Agenda Topic
---|---------------------
1. | Welcome and Apologies
   The Chair opened the meeting at 8:07am and welcomed everyone in attendance.
   The Chair acknowledged that Bruce Young and David Horn are apologies.

2. | Record of Discussion
   The Record of Discussion from the last Regional Advisory Panel meeting was endorsed, noting that, in future less commentary can be included.

3. | Matters Arising From Previous Minutes
   Actions from the previous meeting have been completed. Matters Arising from previous minutes were not discussed beyond what was discussed at this meeting.
Tranche 2 Update

Jurg Keller joined the meeting to give a presentation on the update on Tranche 2 Activities. A detailed document of the presentation is attached. *(Attachment 4.1)*

Key Activities 2016/17

Finalising Tranche 1 Projects

One of the key activities for 2016/17 is completing Tranche 1 projects. A number of Program B and C projects are still going on into the FY 2016/17. Programs A and D are mostly finishing at the end of June of FY 2015/16. Some remaining projects will be transferred into the new T2 projects. A lot of T1 outcomes will build the foundations of T2.

Tranche 2 Overall Framework

It is proposed that Tranche 2 includes Integrated Research Projects (IRP), WSC Tools & Products (TAP), Regional Projects and WSC Transition Strategies, noting that knowledge transfer and adoption, capacity building and participant engagement are also in T2.

Proposed Tranche 2 Integrated Research Projects (IRP)

It is proposed that IRP1 will start early 2016/17 and IRP2 will start in early 2017. The latter will be very much informed by the outcome of the current economic projects which are finishing June this year.

It is proposed that IRP5 will build on existing activities. Project B2.23 will be continuing into 2016/17 with the budget of $340,000. One of the challenges is that one of the key researchers in project B2.4, Carlos Ocampos, could have his contract finished at the end of June 2016 as B2.4 finishes then. However, Jurg Keller is confident that there will be an extension to this contract.

The Next Steps

The next step in developing the T2 program is to get this Framework to the Board at the Board Meeting on Thursday, 26th May. It will also be the sign off on the budget for the next FY.

The CRC Executives have identified that IRP1 is to get started as soon as possible as there is leverage from T1 funding and it will give the blueprint to the follow up activities in all the regions. The outline of IRP1 is being prepared, with opportunity for input from the champions from each region.

The next 6 months will be the planning period for IRP2, with the input of the champions from the connected projects from the RAPs.

WRAP Issues and Discussions

RAP members expressed concerns that the proposed T2 program did not align with earlier
expectations built by the CRC. Jurg clarified that the funding of the ongoing T1 projects is not coming out from T2’s funds. The budget of $9m for T2 activities remains. RAP members commented that T2 now looks like a 2017–2020 program, not 2016–2020.

WA RAP’s Research and Adoption Plan has a fair bit on the Adoption end. The Research side of things have been discussed at the meeting, but there is no visibility about what’s been proposed as the Adoption plan. There is no visibility on the knowledge transfer and capacity building element. Jurg Keller advised that this will be discussed at the Board meeting. The RAP members reiterated that the Regional Manager position is a high priority.

Jurg advised that the co-funding for the Regional Manager is staggered across the regions, depending on the co-funding received from the different players or RAPs. The next FY will be a transition year. In the next FY, the Regional Manager will take over the role of the RED. Resource allocation depends on each of the RAPs to define what sort of activities they’d like to see in the individual region. The knowledge translation/broker will be managed by RAP/RED in the transition year.

A national research action plan summary of 2016/17 with T1 ongoing and T2 activities would be helpful for the RAP to keep track of what is being proposed and how RAP can be involved.

For each of the RAP project ideas that has been proposed, a champion (or a contact person) has been nominated to be involved in the project development.

It is of interest to the RAP to find out the kind of budget and resources in the adoption program so the RAP can prioritise to optimise the benefits. The RAP is advised that as soon as the Board has signed off the overall budget framework, they will have the chance to do so. Without this the proposed T2 Framework is an incomplete set of information.

The RAP requested that both Jurg Keller and Fiona Chandler attend the next RAP meeting to enable discussion about the total picture. The RAP decided to inform the Board regarding the actions they would like to be carried out as soon as possible so as not to lose momentum. The points that will be brought up by the Chair commenting on the findings of the meeting are as follows:

1. The WA RAP recognises the overall Framework but the identification of the researchers and corresponding budget of the projects that have been put forward are required.
2. IRP5 needs to start as soon as possible so that a key researcher can continue.
3. A Regional Manager who is fully funded by the CRC is required to start as soon as possible.
4. RAP members and project ‘champions’ are ready to be actively involved in co-developing the T2 program and projects.
5. Proposals for the adoption projects/budgets need to be communicated as a matter of priority so that the overall proposed research and adoption plan can be reviewed and assessed.

**ACTION:** The Chair and Anas Ghadouani to discuss the outcomes of the RAP meeting with the CRC Board and Executive, respectively.

5. **Western Region Event Schedule 2016 - 2017**

   Western Region Event Schedule 2016 – 2017 was not discussed.

6. **CRCWSC Board Update**

   CRCWSC Board Update was not discussed.

7. **Other Business**

   Regarding the Scenario Planning workshop by Darryl Low Choy, it will be favourable to ask Darryl what can be achieved from the workshop so it is clear if it will be beneficial to join the workshop.

8. **Meeting Close**

   The meeting closed at 9.55am.

   The Chair thanked the Regional Advisory Panel members for their attendance.

   The next meeting is set down for Wednesday, 15 June 2016.

<table>
<thead>
<tr>
<th>Actions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>The Chair and Anas Ghadouani to discuss the outcomes of the RAP meeting with the CRC Board and Executive, respectively.</td>
</tr>
</tbody>
</table>
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…)
• Initiating the first Tranche 2 projects and continue development of future projects/activities
• Testing and enhancing WSC Tools and Products (e.g. WSC Toolkit, WSC Index)
• Commence development of regional WSC Transition Strategies
• Evolution of the Regional Advisory Panels
• Continue research synthesis projects 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 2 Overall Framework

- To achieve both the long-term CRCWSC outcomes and the expected industry benefits/adoption, four Activity areas are proposed in the Tranche 2 period:
  
  - **Integrated Research** – addressing ongoing national research/application needs through key research projects jointly developed and executed between researchers and end-users
  
  - **Development** – capturing and translating existing knowledge and outputs from Tranche 1 into applicable tools, products and services
  
  - **Regional Implementation** – engaging with the RAPs/end-users to apply and adapt outcomes and tools/products from the research activities
  
  - **Influence** – home of the WSC Transition Strategy for each region (or part thereof), which are to be developed jointly with each RAP and should inform future policy and implementation activities.
Tranche 2 Overall Framework of Projects and Activities

CRCWSC Strategic Plan

CRCWSC Long Term Outcomes

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

CRCWSC Operations

Industry Outcomes | Adoption

CRC for Water Sensitive Cities
Tranche 2 Project Types

- Four types of T2 Projects are proposed to be developed based on the RAP project ideas and the prioritised Research Activities.
- Project Teams are expected to comprise both industry and research partners.

- **Integrated Research Projects (IRP)** – national projects addressing broad research needs; researcher lead with industry co-development

- **WSC Tools & Products (TAP) Development Projects** – application focused, with potential commercial value, industry or researcher lead; examples include DAnCE4Water, Integrated WSC Toolkit, WSC Index, plus new tools/products

- **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** – developed through a national WSC Transition Strategy framework (part of IRPs), tailored to the local situation; local WSC Transition Strategies will be RAP led and managed by the Regional Manager
## Priority Research Activities based on RAP feedback

<table>
<thead>
<tr>
<th>Count</th>
<th>Research Activity (RA)</th>
<th>RA Title</th>
<th>Rank order from RAPs</th>
<th>High VIC1</th>
<th>High VIC2/3</th>
<th>Low VIC4</th>
<th>High VIC5</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1.1</td>
<td>Enabling the development of water sensitive institutions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
<td>Managing the risks of water sensitive innovation through a range of regulatory methods with participation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1.3</td>
<td>Developing community support for water sensitive innovation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.4</td>
<td>Strategic policy influence for water sensitive cities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1.5</td>
<td>Transition laboratories for water sensitive cities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2.1</td>
<td>Operationalising Visions &amp; Narrative through “joined up” planning and implementation process</td>
<td></td>
<td>H1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2.2</td>
<td>Integrating WSC values across urban planning, urban design and implementation activities at scale</td>
<td></td>
<td>H2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2.3</td>
<td>Towards science informed planning and urban design for WSCs</td>
<td></td>
<td>H2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>2.5</td>
<td>Operationalising and modelling urban water mass balance for strategic planning</td>
<td></td>
<td>H4</td>
<td>H4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2.6</td>
<td>Co-designing water sensitive catchments and precincts</td>
<td></td>
<td>H3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3.1</td>
<td>In-fill developments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3.2</td>
<td>Urban microclimate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3.3</td>
<td>WSUD Groundwater Science</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3.4</td>
<td>Maintenance and sustainability of WSUD systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>3.4</td>
<td>Science of selecting suitable surrogates and indicators for system validation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4.1</td>
<td>Monitoring and validation framework for assessing the multiple benefits of water infrastructure</td>
<td></td>
<td>H</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>5.1</td>
<td>Economic values, evaluation and incentives</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>5.2</td>
<td>Evaluation to inform compelling narratives &amp; decision-making</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5.3</td>
<td>Trusted and understandable evaluative criteria</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>5.4</td>
<td>Envisioning and evaluating the resource performance of Water-Sensitive Cities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>6.1</td>
<td>WSC index (not yet completed)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>6.2</td>
<td>WSC integrated modelling (Toolkit) (not yet completed)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>6.3</td>
<td>DanCE4Water - Modelling tools to support water sensitive planning</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Priority Research Activities based on RAP feedback

<table>
<thead>
<tr>
<th>Count</th>
<th>Research Activity (RA)</th>
<th>RA Title</th>
<th>Rank order from RAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>GLD1 GLL2 GLL3 GLL4 GLL5 GLL6 NSW1 NSW2 NSW3 NSW4 NSW5 Medium-High SA1 SA2 SA3</td>
</tr>
<tr>
<td>2</td>
<td>1.1</td>
<td>Enabling the development of water sensitive institutions</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
<td>Managing the risks of water sensitive innovation through a range of regulatory methods with policy tools</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1.3</td>
<td>Developing community support for water sensitive innovation</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.4</td>
<td>Strategic policy influence for water sensitive cities</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1.5</td>
<td>Transition laboratories for water sensitive cities</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2.1</td>
<td>Operationalising Visions &amp; Narrative through “joined up” planning and implementation processes</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2.2</td>
<td>Integrating WSC values across urban planning, urban design and implementation activities at scale</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2.3</td>
<td>Towards science informed planning and urban design for WSCs</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2.4</td>
<td>Integrating WSC principles, theory and lessons into core curriculum of Built Environment tertiary Stream</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>2.5</td>
<td>Operationalising and modelling urban water mass balance for strategic planning</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2.6</td>
<td>Co-designing water sensitive catchments and precincts</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>3.1</td>
<td>In-fill developments</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3.2</td>
<td>Urban microclimate</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3.3</td>
<td>WSUD Groundwater Science</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3.4</td>
<td>Maintenance and sustainability of WSUD systems</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>4.1</td>
<td>Science of selecting suitable surrogates and indicators for system validation</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>4.2</td>
<td>Utilising cheap, easy-to-use sensors and data analytics for efficient infrastructure monitoring</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>4.3</td>
<td>Optimising the societal benefits of WSUD through social monitoring</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>4.4</td>
<td>Monitoring and validation framework for assessing the multiple benefits of water infrastructure</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>5.1</td>
<td>Economic values, evaluation and incentives</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>5.2</td>
<td>Evaluation to inform compelling narratives &amp; decision-making</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5.3</td>
<td>Trusted and understandable evaluative criteria</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>5.4</td>
<td>Envisioning and evaluating the resource performance of Water-Sensitive Cities</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>6.1</td>
<td>WSC Index (not yet completed)</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>6.2</td>
<td>WSC Integrated modelling (Toolkit) (not yet completed)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>6.3</td>
<td>DAWE4Water - Modelling tools to support water sensitive planning</td>
<td></td>
</tr>
</tbody>
</table>
Tranche 2 Project Development Priorities

Priorities of Research Activities based on RAP feedback
– Overall Priorities of Research Activities across most/all RAPs

<table>
<thead>
<tr>
<th>RAP Ranking*</th>
<th>Research Activity No.</th>
<th>Title</th>
</tr>
</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>
</tr>
<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>
</tr>
<tr>
<td>Medium</td>
<td>1.5</td>
<td>Transition laboratories for water sensitive cities</td>
</tr>
<tr>
<td>Medium</td>
<td>2.1</td>
<td>Operationalising Visions &amp; Narrative through “joined up” planning and implementation processes</td>
</tr>
<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>
</tr>
<tr>
<td>Medium</td>
<td>3.2</td>
<td>Urban microclimate</td>
</tr>
</tbody>
</table>

* from Combined RAP Priorities matrix
## Tranche 2 Project Development Priorities

- Other identified Research Activities of importance to particular RAPs

<table>
<thead>
<tr>
<th>RAP Ranking*</th>
<th>Research Activity No.</th>
<th>Title</th>
<th>RAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>3.3</td>
<td>WSUD Groundwater Science</td>
<td>WA</td>
</tr>
<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>
</tr>
<tr>
<td>Medium/high</td>
<td>3.4</td>
<td>Maintenance and sustainability of WSUD systems</td>
<td>VIC &amp; QLD</td>
</tr>
<tr>
<td>Medium/high</td>
<td>1.1</td>
<td>Enabling the development of water sensitive institutions</td>
<td>WA</td>
</tr>
</tbody>
</table>
Tranche 2 Project Linkages

Integrated Research (IRP)
- IRP1 WSC Transition Strategy
- IRP2 ...
- IRP3 ...

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 with expected start in early 2017/18 as related Tranche 1 activities are completed:

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

Integrated Research Project: IRP3 Evidence-based integrated urban planning across different scales

Knowledge generation/research activities

Policy development and implementation framework (output)

Integrated testing/co-development/case-studies

Application/testing of tools

Knowledge Translation Tools & Services

Adaptation & application of knowledge

WSC Tools & Products

Application of tools and products

- UQ Living Laboratory QLD3
- Greenhill Precinct SA2
- Greening Bendigo VIC1
- Dandenong Catchment VIC 5
- Uniting outputs & stakeholders NSW3
- Regional Context for WSC NSW4
- Tropical/dry tropical Context QLD6
- Other Regional projects & end-users

Example of Project Interactions

Application of tools and products

Knowledge generation/research activities

Policy development and implementation framework (output)

Integrated testing/co-development/case-studies

Application/testing of tools

Knowledge Translation Tools & Services

Adaptation & application of knowledge

WSC Tools & Products

Application of tools and products
2016/17 Integrated Research Project (IRPs)

• WSC Transition Strategies (IRP1)
  – Project approved at August Board Meeting
  – Draft Transition Strategies completed by July 2017

• Economic Framework (IRP2)
  – Related Tranche 1 Projects will be completed by July 2016
  – Project approved at November 2016 Board meeting
  – Draft framework and tool by end 2017

• Remaining projects (IRP3, IRP4, IRP5)
  – Related Tranche 1 Projects will be completed by July 2017
  – Project Proposal developed during 2016/17
  – Projects approved at May 2017 Board meeting
2016/17 Activities of Tranche 1 Projects

T1 project teams should assess opportunities for the application of Tranche 1 project outputs into the ‘Project Ideas’ identified by the RAPs and their potential transition into Tranche 2 projects.

Tranche 1 Projects with significant continuing activities 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
• B4.1&B4.2 – Socio-technical flood resilience in Water Sensitive Cities
• 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

Total ongoing T1 project funding just over $3M in 2016/17
WSC Tools and Products

CRCWSC Strategic Plan

Integrated Research (IRP)

IRP1
WSC Transition Strategy

IRP2 ...

IRP3 ...

WSC Tools & Products

Regional Implementation

Regional Project 1

Regional Project 2

Regional Project 3

Other Regional Projects

CRCWSC Long Term Outcomes

Industry Outcomes | Adoption
Proposed Tools and Products (TAP)

• This activity area and related projects will need to be further developed over the coming months, also in conjunction with the assessment of the Tranche 1 outcomes and how to further develop/translate/apply these.

• 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 will be further evaluated as they are completed over coming months.
Regional Projects

- Based on specific, **local project idea or opportunity** proposed by one RAP;
- CRCWSC activities/outputs are expected to **add valuable knowledge and tools/solutions** to emerging or active projects driven by local stakeholders;
- **Transferability of outcomes** to other regions important, groups of related Regional Projects may be formed to foster shared application and adoption of knowledge;
- Some Regional Projects will have **significant interactions** with key research activities in the Integrated Research (IRP) projects, but not all REG project elements will be covered from these knowledge generation activities;
- The focus of non-research elements (ie. not covered in IRP projects) is primarily on **knowledge application and implementation**, including application of Tools and Products (TAP) as well as (ongoing) T1 activities/outputs to the particular local situation/needs;
Example of Integration of Regional Projects with IRPs and Tools & Products

**WSC Transition Strategy IRP1**
- Knowledge application

**Economic Eval IRP2**
- Knowledge application

**Integrated Planning IRP3**
- Integrated

**In-fill Dev’ts IRP4**
- Knowledge application
  - Co-development

**Groundwater IRP5**
- Knowledge application
  - & testing

**Tools & Products**
- TAP1 WSC Index
- TAP4...
- TAP5...
- TAP6...
- TAP2 Toolkit
- TAP3 DAnCE4Water
- TAP1 WSC Index

**Regional project activities**

**Capacity Building**
- Knowledge application

**Norman Creek Catchment QLD5**
- Knowledge application

**Responsive Urban Form WA6**
- Co-development

**Greening Bendigo VIC1**
- Knowledge application
T1 & T2 Development Activities

Additional project types/activities that focus on the translation of the research and building the capacity of stakeholders. These activities may (or may not) provide commercial opportunities. These activities can be grouped as follows:

• **Knowledge Translation Tools & Services** – a range of support or enabling activities co-designed with industry including capacity building, knowledge resources, policy influence, knowledge dissemination etc..

• **Research Synthesis Projects** – both CRCWSC and partner funded knowledge sharing and integrating workshops that have the potential to provide foundations for on-going CRCWSC activities

• **Communications and Marketing** – multiple forms of communication (e.g. website, newsletters, Industry Partner Workshops, WSC Conference etc. used to inform and influence stakeholders on the products and tools of the CRCWSC and the value of WSC solutions
2016/17 Knowledge Translation Tools & Services

Capacity Building
- Collaboration and co-delivery between RAP and capacity building organisations and centers'
- Knowledge translation – guidelines, policy notes, case studies
- Demonstration projects and case studies
- Evaluation and learning framework

Policy influence
- Linking in with IRP1 – proactive support for key policy enhancement

Education and Training
- PhD support & capacity building
- PhD training/retreat
- Professional development and post-graduation education
Synthesis Activities

Five Partnership Workshops planned at least, including:

- Norman Creek (QLD)
- Bays Precinct (NSW)
- Arden Macaulay (VIC)
- Pinja South (WA)

Plus five ‘Full Fee’ Synthesis Workshops such as:

- Southbank (QLD)
CRC for Water Sensitive Cities

2012 - 2021

© CRC for Water Sensitive Cities

Australian Government
Department of Industry,
Innovation and Science

Business
Cooperative Research
Centres Programme