Research Adoption Strategy 2016-2021

- Workshop held in Melbourne in March to engage Executive EPRG, and RAP representatives to identify ‘What would adoption success look like in 2021?’
- Based on understanding what long-term outcomes are sought (Strategic Plan 2014/15 – 2016/17)
- Purpose – to plan what strategies and actions are required (and resources) to deliver the outcomes nationally
- Establish a framework to guide local initiatives
- Consultation – WA, Qld and NSW RAPs, EPRG and CRC Advisory Committee
- ‘Living Document’ that will continue to evolve
Tranche 2 Projects and Activities
Critical Long-term Outcomes

- The **rules (regulatory environment)** in which our cities are developed and planned supports WSC principles.
- The **investment and decision making (business case)** processes for urban development and water management adopt WSC principles.
- **Communities are engaged** by water and urban planning sectors in the development of strategies for the delivery of services.
- The **practices (tools and techniques)** used by urban planning, architecture, water management practitioners to create the physical, social and biological form of cities implement WSC best practice.
- **Water cycle technologies are available** with associated guidelines for their design and operational and asset management.
- **WSC best practice in delivery** of urban water services.
Critical Long-term Outcomes c’ted

• WSC principles and approaches recognised in all National and State policy and growth plans.

• Industry leads the on-ground implementation of WSC interventions underpinned by rigorous industry standards.

• Government and industry has access to a world-class workforce with the capacity and capability to develop and implement WSC.

• Water utilities and/or private operators have the capacity, and are willing, to operate WSC infrastructure and technologies.

• Australia is world class provider of WSC Research and Development, Education, Technology, Capacity-building and consulting.

• Enduring partnerships and relationships between government, industry and research institutions established and flourishing in WSC Research|Synthesise|Influence
Adoption – Conceptual Framework

- Industry need and vision for a WSC
- World-class science, knowledge and innovation tested in local contexts
- Industry-ready tools and products
- Business case for WSC (and associated projects / programs)
- Engaged decision and policy makers (policy supported by industry standards and guidelines)
- Diverse and engaged community and end users have the capacity, capability and culture to transition
- Cities and towns are actively transitioning to be more water sensitive

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Industry need and vision for a WSC

1. WSC transition strategies are co-developed for each state (region)

World-class science, knowledge and innovation tested in local contexts

2. Industry end users actively contribute to the co-development of research outcomes and relevant tools and products
3. Learning case studies founded on on-ground application of leading edge knowledge, tools and products are developed and disseminated

Industry-ready tools and products

4. Industry-relevant tools and products are easily accessible and supported with guidance and advice on their use and contexts
5. Industry has access to knowledge brokers to facilitate the application of knowledge, tools, products and services from tranche 1 and 2.

Business case for WSC (and associated projects / programs)

6. Business case frameworks are further developed & tested in CRCWSC projects (demonstration and implementation) and
7. Industry has access to guidance and training to apply business case frameworks

Engaged decision and policy makers (policy supported by industry standards and guidelines)

8. Policy and decision makers are supported to deliver innovative policy outcomes founded on a strong evidence base

Diverse and engaged community and end users have the capacity, capability and culture to transition

9. Industry has the access to guidance and a range of training and education programs to help build the capacity to innovate and transition

Cities and towns are actively transitioning to be more water sensitive

10. Industry has access & advice on benchmarking & support to develop sound transition strategies to inform the implementation of WSC transition strategies
11. Enduring partnership arrangements exist to support the implementation of WSC transition strategies
Research Adoption Strategies

Research Adoption Strategies to deliver the conceptual framework:

- **WSC Transition Strategies** are co-developed for each state / region
- **Industry end users actively contribute** to the co-development of research outcomes and relevant tools & products
- **Industry has access to WSC** case studies and develops the capacity to learn from previous projects and programs that have delivered WSC outcomes
- **Industry-relevant tools and products** are easily accessible and supported with guidance and advice on their use in various contexts
- Industry has **access to knowledge resources** to facilitate the application of knowledge, tools, products and services
- **Business case frameworks are further developed and tested** in CRCWSC case studies and demonstration projects
Research Adoption Strategies continued

- Industry has access to **guidance and training** to apply business case frameworks

- Policy and decision makers are **supported to deliver innovative policy** outcomes founded on a strong evidence base and facilitate integrated outcomes across relevant organisations

- Industry has the access to guidance and a range of **training and education** programs to help build the capacity to innovate and transition

- **Industry has access and advice** on benchmarking and support to develop sound transition strategies to inform the implementation of WSC Transition Strategies

- **Enduring partnership arrangements** exist to support the implementation of WSC Transition strategies
Industry need and vision for a WSC

1. WSC transition strategies are co-developed for each state (region)

Tranche 2 project co-developed with RAP

- IRP1: WSC Transition Strategy and Implementation Plan
- www.watersensitivecities.org.au
World-class science, knowledge & innovation tested in local contexts

2. Industry end users actively contribute to the **co-development** of research outcomes and relevant tools and products

3. Industry has access to WSC case studies and develops the **capacity to learn** from previous projects and programs that have delivered WSC outcomes

All tranche 2 proposals and projects to have specific research adoption deliverables (e.g. case studies) and minimum requirements to ensure researcher-industry engagement and adoption

- **IRP budget**
- **Learning though Demonstration and Integration (Project D1.4)**
  - Project Leader – Celeste Morgan (0.5 FTE)
4. **Industry-relevant tools and products** are easily accessible and supported with guidance and advice on their use and contexts.

5. Industry has **access to knowledge products** to facilitate the application of knowledge, tools, products and services.

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**WSC tools and products**
- WSC Toolkit (Project D1.5) – pilot studies, training supported by user manuals & support
- WSC Index (Project D6.2) - working with private / SME to apply locally

**Knowledge Application and Translation Services**

**CRCWSC cash contribution for local capacity building**
Business case for WSC (and associated projects / programs)

6. **Business case frameworks are tested** in CRCWSC projects (demonstration and implementation)

7. Industry has access to **guidance and training** to apply business case frameworks

- Integrated research projects & regional implementation projects
- Analysis of existing case studies
- New demonstration projects

- IRP2 Economic Framework
- Regional Implementation Projects
- Case Studies (D1.4 Demo Projects)
- Research synthesis projects
- Knowledge translation
- Short course ‘Developing business case for WSC projects and programs’ (D4.1 – Strengthening Education)
Engaged decision and policy makers (policy supported by industry standards and guidelines)

8. Policy and decision makers are supported to deliver innovative policy outcomes founded on a strong evidence base.

- Identify priority policy contexts and opportunities
- Integrate into IRP
- Proactive science-policy influence
- Knowledge translation / synthesis

- **Influencing policy (IRP1)** - Build on ‘Strategies for influencing the political dynamics of decision-making’ (Project A3.3)
- **Knowledge translation** – cash resources to direct towards priority policy issues
Diverse & engaged community, and end users - with the capacity, capability and culture to transition

9. Industry has the access to guidance and a range of **training and education programs** to help build the capacity to innovate and transition

- Implement recommendations from national needs assessment and prioritisation (D4.1)
- Local capacity building initiatives
- Demand–based opportunities (associated with Tranche 1 outputs)

- **CRCWSC cash contribution for local capacity building** - $140,000 in 2016/17
  - Local work plan to be developed by RAP and local partnership formed with provider to coordinate and deliver
- CRCWSC knowledge translation to develop resources and tools (e.g. case studies)
- Business development of priority courses (e.g. Developing business case for WSC projects and programs)
Cities and towns are actively transitioning to be more water sensitive

10. Industry has access & advice on **benchmarking** & support to develop & implement sound transition strategies to inform the implementation of WSC transition strategies

11. **Enduring partnership** arrangements exist to support the implementation of WSC transition strategies

- WSC Transition Strategy and Implementation Plan
- WSC Index (Project D6.2) - working with private / SME to apply locally
- Regional Manager co-funding and operational support

Application of the WSC Index / benchmarking tools

RAPs and Regional Manager to coordinate implementation of WSC transition strategy

Influencing strategy
Influence Strategy

The CRCWSC Influence Strategy identifies the priority influence activities that are considered essential to delivery of the CRCWSC Strategic Plan Critical Long Term Outcomes.

• Ensure Essential Participants are advocates for, and play a lead role in influencing the policy agenda
• Influence and support participant Universities to better integrate WSC-related concepts and principles into future curriculum development
• Support the State Governments in all states enhance the implementation of WSC outcomes and principles in appropriate policy reform
• Identify strategies to build awareness and capacity of the urban development industry (greenfield and infill), including public housing leaders to adopt WSC outcomes and principles
• Identify strategies to build awareness and capacity of relevant regulator and approval agencies (e.g. Dept of Health, EPA, water regulators, development assessment), to accept WSC outcomes and principles in development projects.
<table>
<thead>
<tr>
<th>Project/Program</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
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<tr>
<td><strong>IRP1: WSC Transition Strategies</strong></td>
<td>AC &amp; EPRG Reviews; Board approval</td>
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<td>Approval of RAP proposals</td>
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<td>Commencement</td>
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Portfolio Areas

Research
- Tranche 1 Research outputs
- T2 Research Program developed with industry end-users (IRPs)
- Tools and Products
- WSC Business Case
- Research Partnerships (WSAA)
- Learning Case Studies
- Researcher Capacity

Adoption
- Regional WSC Transition Strategies and Implementation Plans
- Self sustaining RAPs
- Regional Managers
- Engaged Decision & Policy makers
- Knowledge products and Services
- Capacity Development
- Learning & Evaluation Framework

Organisational Management
- Governance & Admin
- Performance Reporting
- Communications & Marketing
- Finance & Budget

Business Development
- Business Development
- Synthesis Projects
- Transition Planning
KATS - Priority Areas

Knowledge Application & Translation Services

**Capacity Building**
- Collaboration and co-delivery between RAPs and capacity building organisations
- Knowledge translation – guidelines, policy notes, case studies
- Demonstration projects and case studies (D1.4)
- Learning & Evaluation Framework

**Education & Training**
- Knowledge inputs into university modules
- Professional development and post-graduation education
Examples of Regional Project Structures

WSC Transition Strategy IRP1
Economic Eval IRP2
Integrated Planning IRP3
In-fill Developm’ts IRP4
Groundwater IRP5

Knowledge application
Knowledge application
Integrated co-development
Knowledge application
Knowledge application

Tools & Products
- WSC Index
- Urban water model
- WSC Toolkit
- WSC Index
- Water mass balance
- Microclimate
- DAnCE4Water

Regional project activities
Purpose of Tranche 2

• To optimise the value of the investment made to-date in Tranche 1 through:
  – the testing and refinement of research concepts
  – utilisation in real contexts / projects
  – translation of research outputs into industry-ready tools and products

• Influence and embed water sensitive city outcomes in key policy and planning instruments

• Establish the need within industry for continuous improvement in WSC knowledge, tools and products

• To build the capacity and empower industry to lead the long term transition of water sensitive cities
Tranche 2 Project/Activity Types

- **Integrated Research Projects (IRP)** – national inter-disciplinary projects with common research focus across most/all RAP areas

- **WSC Tools & Products (TAP) Development Projects** – development, testing and application activities to create key industry-usable tools/products; eg. WSC Modelling Toolkit, WSC Index, but also technologies and frameworks etc.

- **Knowledge Application and Translation Services (KATS)** – Translation of research outputs into industry-ready guidelines, manuals, training, capacity building documents and services

- **Regional Projects (REG)** – regionally focused, industry led activities with transferability of outputs to other regions. Expected to have additional investment from local stakeholders
CRCWSC Strategic Outcomes

By 2030, the CRCWSC will have enabled transformative capacity, and changes in structures and practices to ensure cities and towns can deliver:

• **reliable access to water** to meet urban demands;
• socio-technical systems and the **social capacity** to defend, adopt, and recover from episodes of flooding and drought;
• **waterway environments that are clean, healthy and support biodiversity**;
• plans, systems and social capacity to **mitigate against the growing negative impacts on urban health** attributed to changing climate;
• open spaces that are utilised for multiple functions that promote resilience, sustainability and liveability;
• water and water-related features and green spaces that **enhance amenity, sense of place and cultural identity**;
• **optimised servicing** of existing and new water infrastructures; and,
• an uncontested **business case for creating and sustaining a water sensitive city**.