

South Australia RAP Meeting 25 October 2016

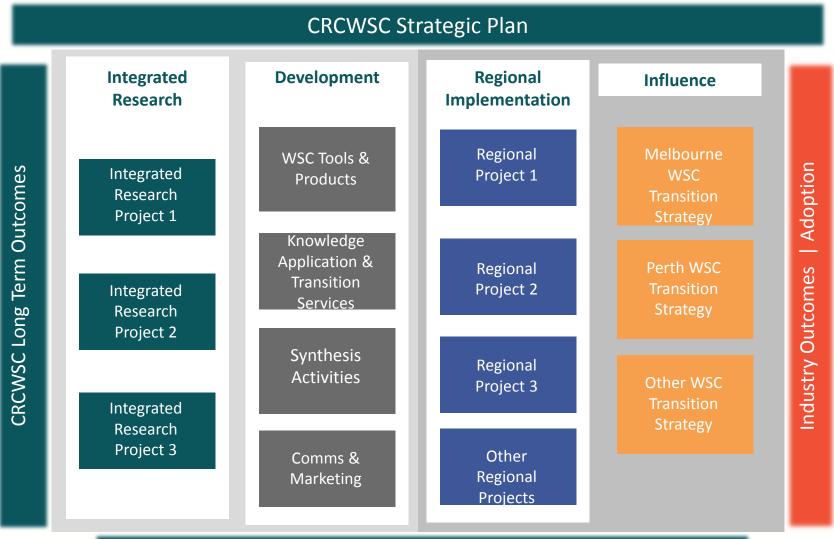


Research Adoption Strategy 2016-2021

- 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



CRCWSC Operations



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

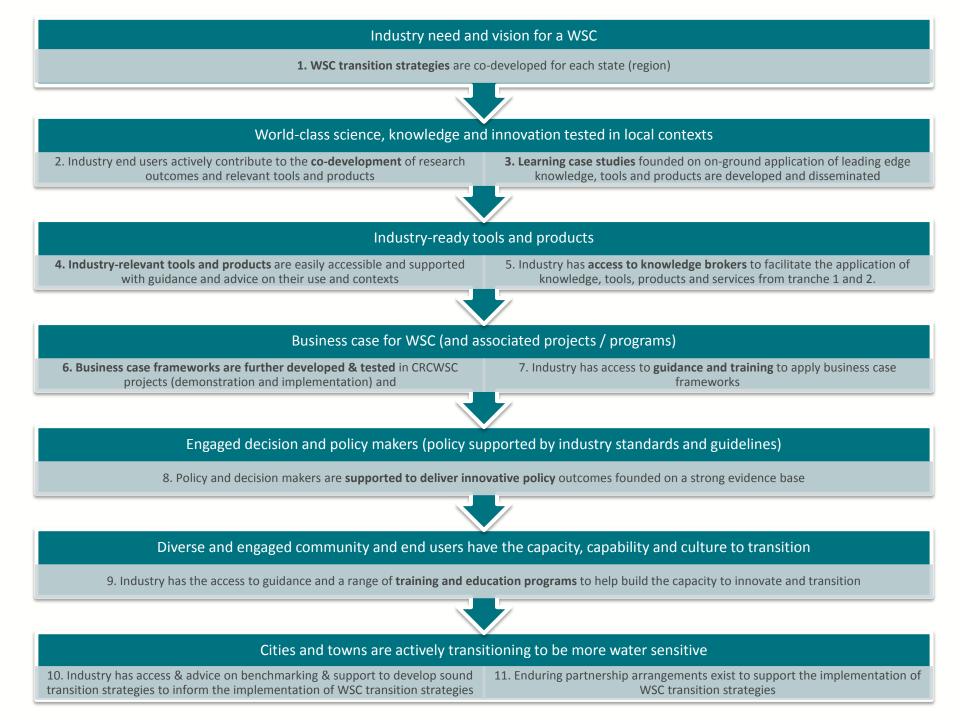
- WSC principles and approaches recognised in all National and State policy and growth plans.
- Industry leads the on-ground implementation of WSC interventions underpinned by rigorous industry standards.
- Government and industry has access to a world-class workforce with the capacity and capability 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







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 codeveloped for each state (region)



Tranche 2 project codeveloped 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 **codevelopment** of research outcomes and relevant tools and products



 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 researcherindustry engagement and adoption

> IRP budget

Learning though Demonstration and Integration (Project D1.4)

- Project Leader - Celeste Morgan (0.5 FTE)



WSC tools & products | Knowledge translation | Research synthesis

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



IP & commercialisation assessment to identify priorities

Tranche 2 project teams to have dedicated roles, responsibilities & resource allocations for knowledge sharing, dissemination and application

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** \geq
- **Regional Implementation Projects**
- **Case Studies (D1.4 Demo Projects)** \succ
- **Research synthesis projects** \succ
- **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

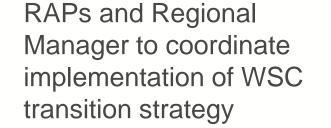
- Local work plan to be developed by RAP and local partnership formed with provider to coordinate and deliver
- CRCWSC knowledge translation to develop resources and tools (e.g. case studies)
- Business development of priority courses (e.g. Developing business case for WSC projects and programs)



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

Application of the WSC Index / benchmarking tools



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

Influencing strategy

- 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



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 WSCrelated 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.



IRP Development Timeline FY1617

Project/Program	Q1	Q2	Q3	Q4
IRP1: WSC Transition Strategies	AC & EPRG Reviews; Board approval	Commencement		
IRP2: Economic Evaluation Framework	Planning/propos al development	AC & EPRG Reviews; Board approval	Commencement	
IRP3: Integrated Urban Planning		Scoping and planning	Proposal development	AC & EPRG Reviews; Board approval
IRP4: In-fill Developments		Scoping and planning	Proposal development	AC & EPRG Reviews; Board approval
IRP5: WSC Solutions for Groundwater-affected areas		Scoping and planning	Proposal development	AC & EPRG Reviews; Board approval
Tools and Products (TAP) Program	Planning/propos al development	AC & EPRG Reviews; Board approval	Commencement	



Adoption Activities Timeline FY16/17

Project/Activity	Q1	Q2	Q3	Q4
KATS - Knowledge Inputs – Uni Modules & Training	Scoping and planning	Proposal Development	Commencement	
KATS - Industry Sector Guidelines/Products		Scoping and Planning	Commencement	
Regional Managers	WA Appointment	Vic Appointment		Commence Qld, NSW & SA App't
D4.1 Case Studies - continuation	Project Steering Committee	Case Studies selected		
Knowledge Translation	Activities determined			
RAPs Capacity Building		Approval of RAP proposals	Commencement	







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

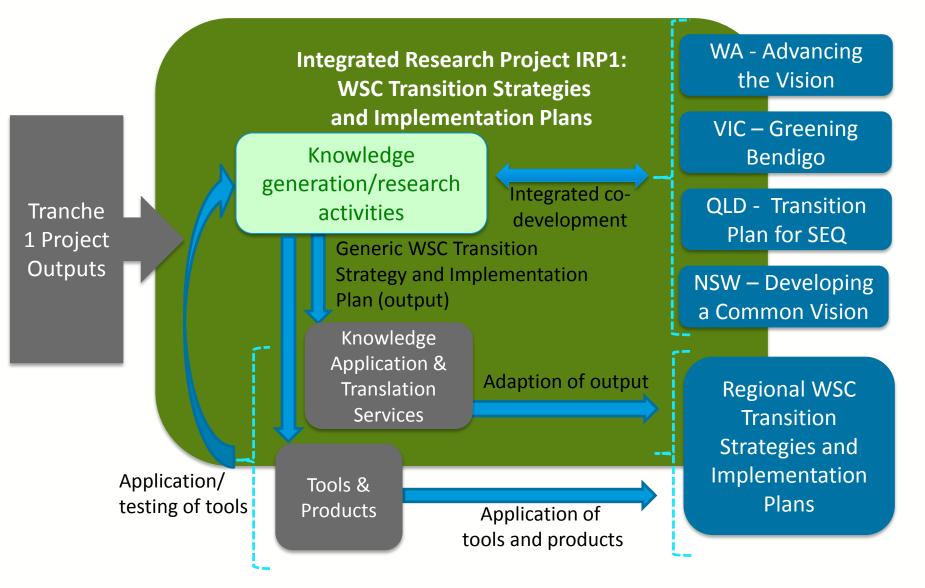
- Collaboration and co-delivery between RAPs and capacity building organisations
- Knowledge translation guidelines, policy notes, case studies
- Demonstration projects and case studies (D1.4)
- Learning & Evaluation Framework

Education & Training

- Knowledge inputs into university modules
- Professional development and post-graduation education



Example of Project Interactions – IRP1



CRC for Water Sensitive Cities

Examples of Regional Project Structures

Olluciulus				
	Greening Bendigo VIC1	Responsive Urban Form WA6	Norman Creek Catchment	Capacity Building NSW2
WSC Transition Strategy IRP1			QLD5	Knowledge application
Economic Eval IRP2	Knowledge application			Knowledge application
Integrated Planning IRP3	3	Integrated		
In-fill Developm'ts IRP4	Knowledge application	co- development		
Groundwater IRP5	Knowledge application	/ testing / case studies		
Tools &	WSC Index	Urban water model	WSC Toolkit	WSC Index
Products	Water mass balance	Microclimate	DAnCE4Water	
Regional pro activities	ject			
				Water Sensitive Cities

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 heath 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.

