



Update on CRCWSC Tranche 2 Activities

Prof Jurg Keller
Chief Research Officer CRCWSC

Agenda

Item	Time	Topic	Facilitator
1.	9:00 am	Welcome and update of ongoing CRCWSC Activities	Prof Jurg Keller
2.	9:30 am	IRP2 - Comprehensive Economic Evaluation; activities and current/expected outputs	Dr James Fogarty
	10:30 am	Morning Tea	
3.	10:45 am	IRP2 - Results from Previous Case Studies	Dr James Fogarty
4.	11.30 am	IRP2 – Update on Research Case Studies and future engagements and activities	Dr James Fogarty
	12:00 pm	Lunch	
5.	1:00 pm	IRP4 - Water sensitive outcomes for infill Developments; current and proposed activities	Dr Marguerite Renouf
6.	2:00 pm	IRP4 - Update on Research Case Studies	Dr Marguerite Renouf
	3:00 pm	Close	



Structure of Tranche 2 program

CRCWSC Outputs

Integrated Research Projects (IRPs)

Integrated Research Project 1

Integrated Research Project 2

CRCWSC Long Term Outcomes

Integrated Research Projects 3, 4, 5 **Development**

WSC Tools & Products (TAPs)

Knowledge
Application and
Translation (KATS)

Synthesis Activities

Comms & Marketing

Regional Implementation

Regional Project 1

Regional Project 2

Regional Project 3

Other Regional Projects

Influence

Perth WSC Transition Strategy

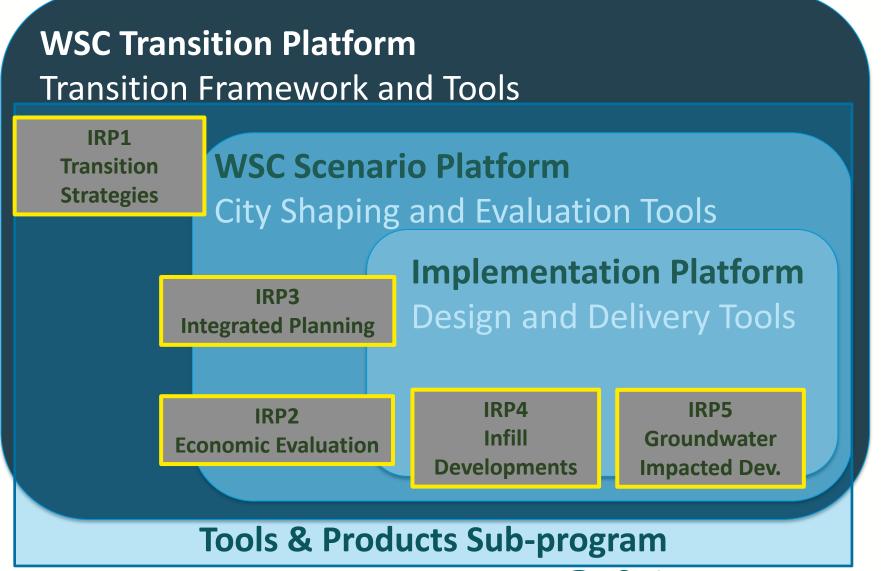
Bendigo WSC Transition Strategy

Other WSC Transition Strategies Industry Outcomes | Adoption

CRCWSC Strategic Plan



Development Platforms to support WSC Transition





Integrated Research Projects - Status

IRP1: WSC Transition Strategies and Implementation Plans started July 2016 expected to finish by June 2018

IRP2: Integrated economic assessment and business case development for WSCs started January 2017

IRP3: Evidence-based integrated urban planning across different scales scoping study underway— expected start 2018

IRP4: Achieving WSC outcomes for in-fill developments proposal approved – started October 2017

IRP5: Knowledge-based WSC solutions for groundwater impacted developments scoping study underway – expected start 2018





WSC Toolbox

Visioning & Concept plans

City Shaping & Solution Development

Design & Implementation

WSC

Transition

Platform

[TAP 1]

WSC Index

Management Actions

Monitoring & Evaluation

WSC

Scenario

Platform

[TAP 2]

Integration tool:

- Water mass balance
- Urban heat impact
- Planning rules
- Economic eval.
- -other...

WSC

Design

Platform

[TAP 3]

Detailed Engineering

Drainage & Flooding

Water supply & sewer systems

External Data and Model Integration

WSC Knowledge Translation Platform

Training and Outreach (TAP4 & Capacity building, etc.)

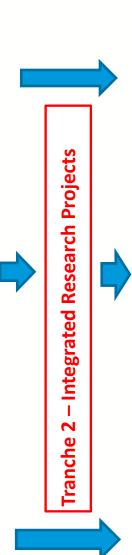


WSC Knowledge Translation Platform

CRCWSC T1 1000+ research outputs Categorised as:

- Ready to use / translate
- Further developed in Tranche 2
- Products that require synergising with others
- Not applicable to Knowledge Platform

Non-CRCWSC research outputs



WSC Knowledge
Translation Platform
Comprising the
following products and
services:

Education Products

Guidelines

Visualisation Tool / Platform

Industry Notes

Advisory / Consultancy Services

Training and Capacity
Development
Programs

Evaluation,
Assessment Tools &
Methods

Other

Users

- Need to define value proposition and priority products and services for each.
- Prioritise likely feepaying users.

Sectors

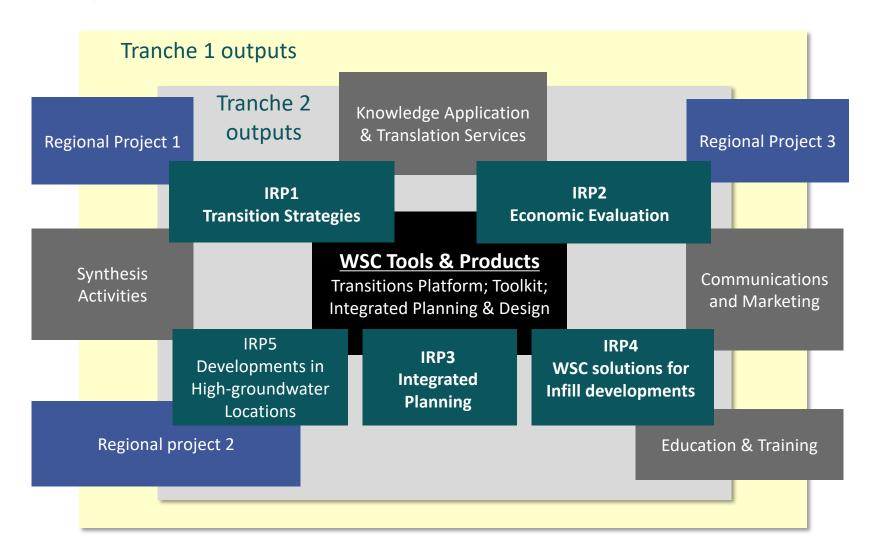
services

and

Identify priority products

- Council urban planners
- Water Utilities
- Council water businesses
- Designated Capacity
 Building Programs (eg.
 Water by Design)
- School programs
- Undergraduate teaching programs
- Post graduate programs
- Community
- Regional Advisory Panels
- Consultants
- Land development
- Mayors (and advisors)
- Ministers (and advisors)

Integration of CRCWSC Tranche 2 Activities









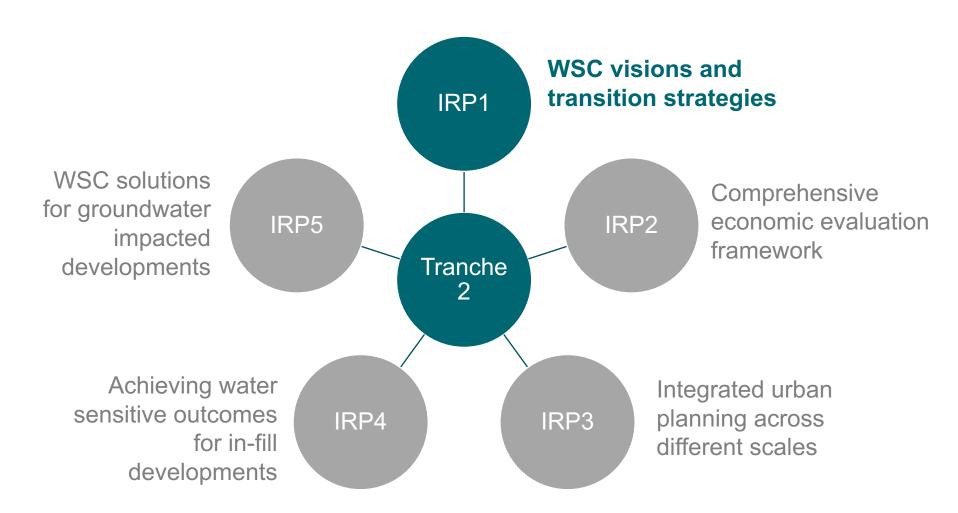
Regional Projects

- Regional (REG) Projects include RAP or participant proposed project ideas that are not largely covered by other T2 programs (IRPs, TAPs, KATS)
- The projects will need to be addressing specific regional needs and be driven from RAP and largely funded by regional participants
- The learnings and outcomes from the projects should be disseminated as case studies and/or through CRCWSC demonstration project
- Aim is to support application and demonstration of CRCWSC research expertise in practical situations
- Newly established projects:
 Bentley Green Walls demonstration (WA Dept of Communities)
 Knowledge application of groundwater/surface water expertise (WA DBCA)
 Others TBC



Research program (Tranche 2)

Integrated Research Projects





Tranche 1 Research

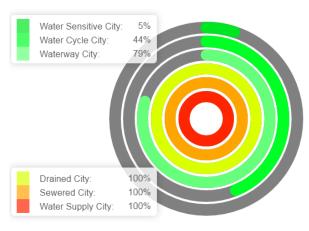
Envisioning and transition planning methodology (A4.2)

WSC Index (D6.2)

Transition Dynamics Framework (A4.1)

Community engagement strategies (A2)



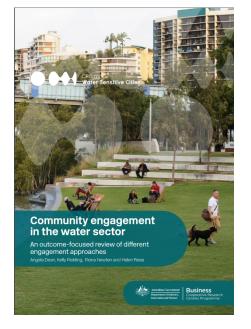


5. Policy & practice diffusion

4. Knowledge dissemination

3. Shared understanding & issue agreement

2. Issue definition





Tranche 1 Research

Tranche 2 Research

Envisioning and transition planning methodology (A4.2)



IRP1

WSC Index (D6.2)



Framework for developing transition strategies

Transition Dynamics Framework (A4.1)



Refined processes and tools

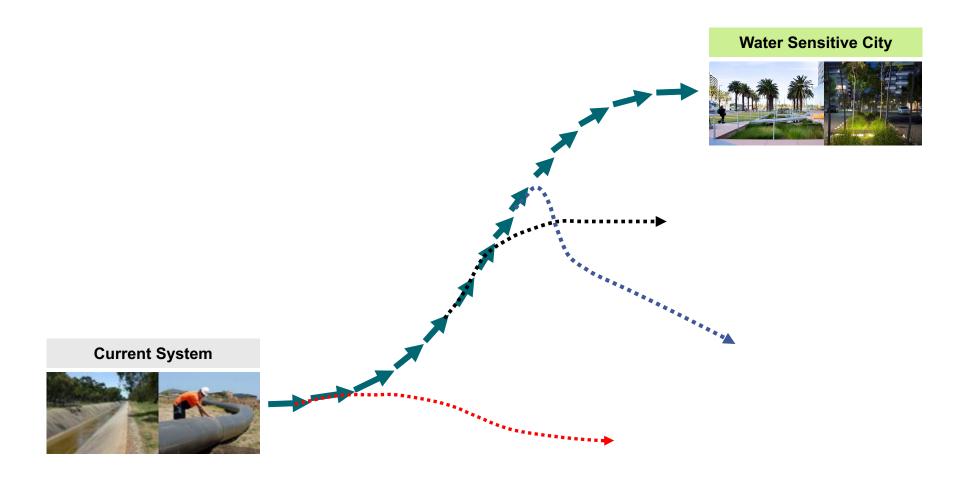
Community engagement strategies (A2)



Knowledge on city transitions



How can we steer a city's WSC transition?





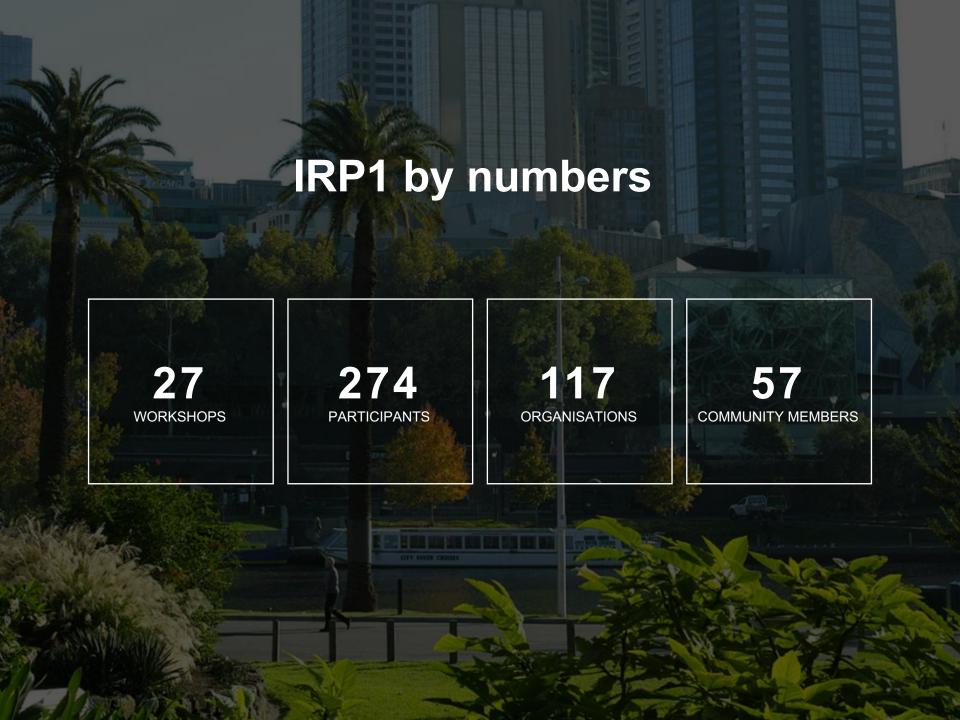
Action research design

- Processes and tools to drive change
- Applied for different scales, stakeholder groups and contexts
- Delivering shared understanding, vision and strategic recommendations
- 30-40 participants
 - government agencies
 - municipalities
 - water utilities
 - consultants
 - developers
 - technology providers
 - community groups
 - academia
 - residents









Project Team



Briony RogersMonash University



Katie Hammer Monash University



Chris Chesterfield CRCWSC



Kelly FieldingUniversity of Queensland



Emma Church Monash University



Alex GunnMonash University



Jo Lindsay Monash University



Angela DeanUniversity of
Queensland



Barry Ball CRCWSC

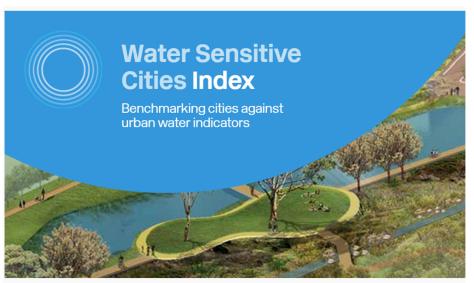


Process: Benchmarking, envisioning and transition planning

- 1 Understanding and benchmarking today
 - 2 Building narrative and envisioning future
 - 3 Exploring enabling conditions and priority strategies
 - 4 Developing actions for transitioning
- 5 Planning for implementation



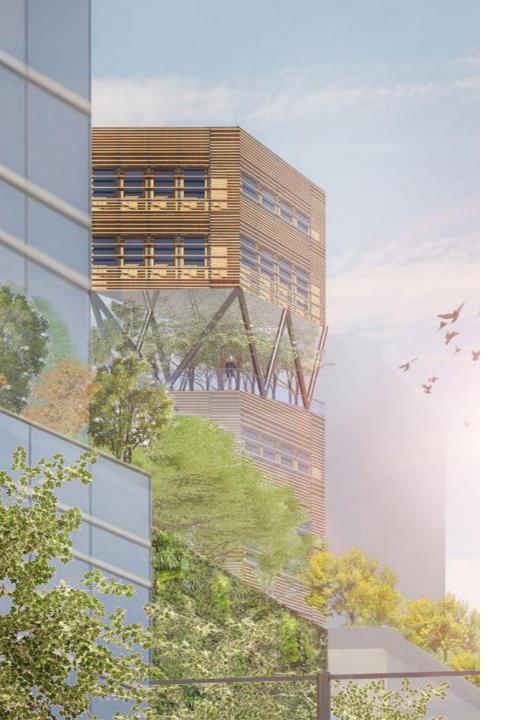
Tools: WSC Index and Transition Dynamics Framework



Transition phase	Champions	Platforms for connecting	Knowledge	Projects and applications	Tools and instruments
1. Issue emergence	Issue activists		Issue highlighted	Issue examined	
2. Issue definition	Individual champions	Sharing concerns and ideas	Causes and impacts examined	Solutions explored	
3. Shared understanding & issue agreement	Connected champions	Developing a collective voice	Solutions developed	Solutions experimented with	Preliminary practical guidance
4. Knowledge dissemination	Influential champions	Building broad support	Solutions advanced	Solutions demonstrated at scale	Refined guidance and early policy
5. Policy and practice diffusion	Organisational champions	Expanding the community of practice	Capacity building	Widespread implementation and learning	Early regulation and targets
6. Embedding new practice	Multi- stakeholder networks	Guiding consistent application	Monitoring and evaluation	Standardisation and refinement	Comprehensive policy and regulation



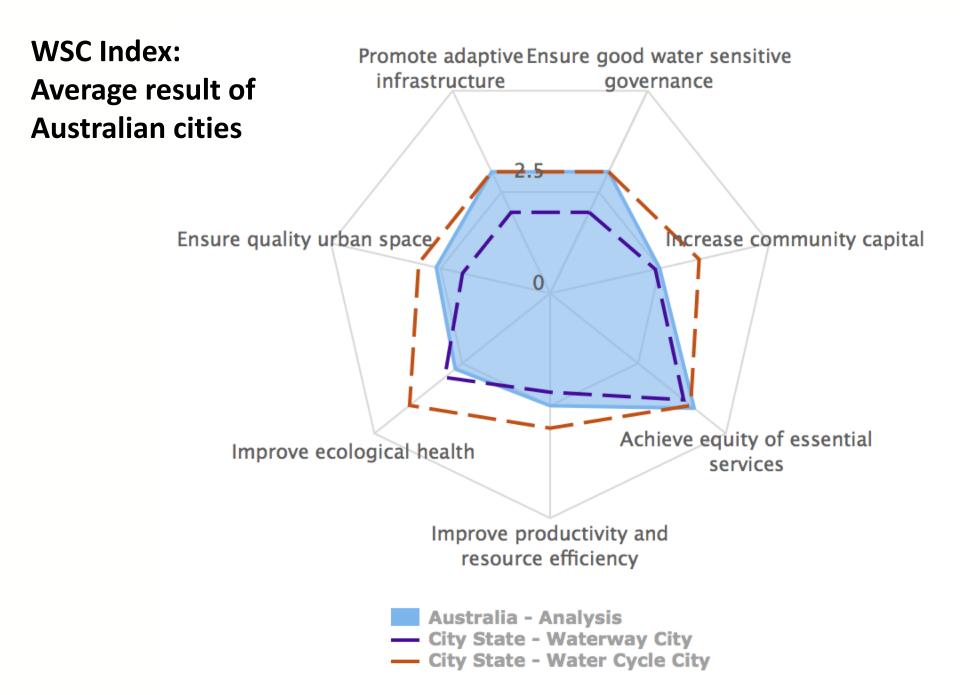
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For for Australian Water Sensitive Cities

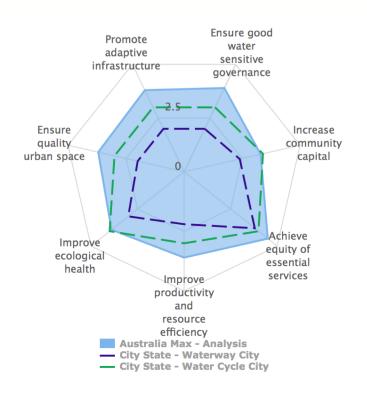
- Healthy, active, happy people
- Green, attractive urban spaces
- Healthy, protected ecosystems
- Sustainable, efficient resource use
- World-leading water innovation
- Collaborative, integrated governance
- Empowered community stewardship
- Aboriginal knowledge and values

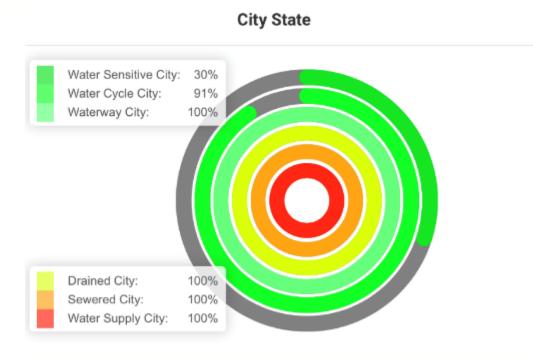




WSC Index: Best result from across Australian cities

Best of all Australian scores











Thank you

AQUAREVO

