CRC for Water Sensitive Cities

Water Sensitive City Transitions

Collaborating for integrated plans that get delivered 18 June 2018

watersensitivecities.org.au



Australian Government

Department of Industry, Innovation and Science

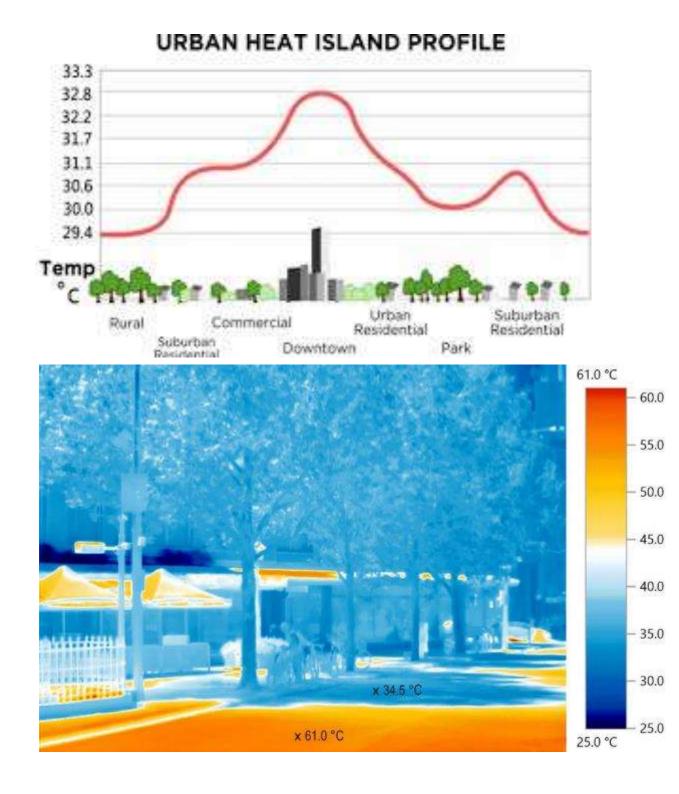
Business Cooperative Research Centres Programme

But first some thoughts on yesterday





Urban heat island effect and potential benefits of green infrastructure



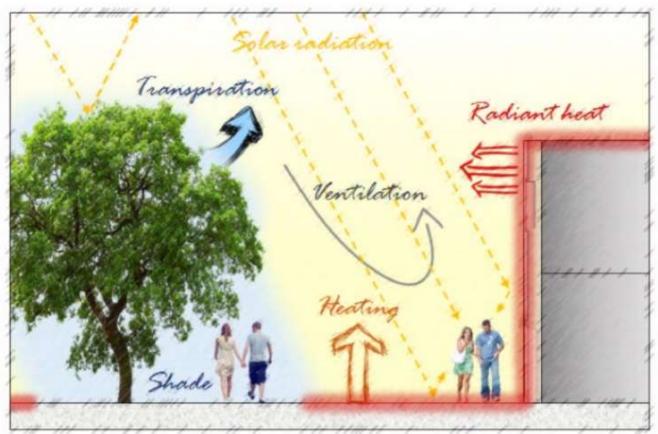
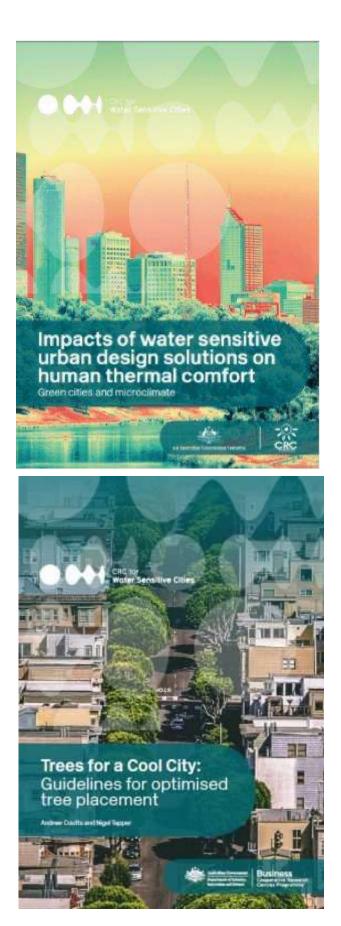
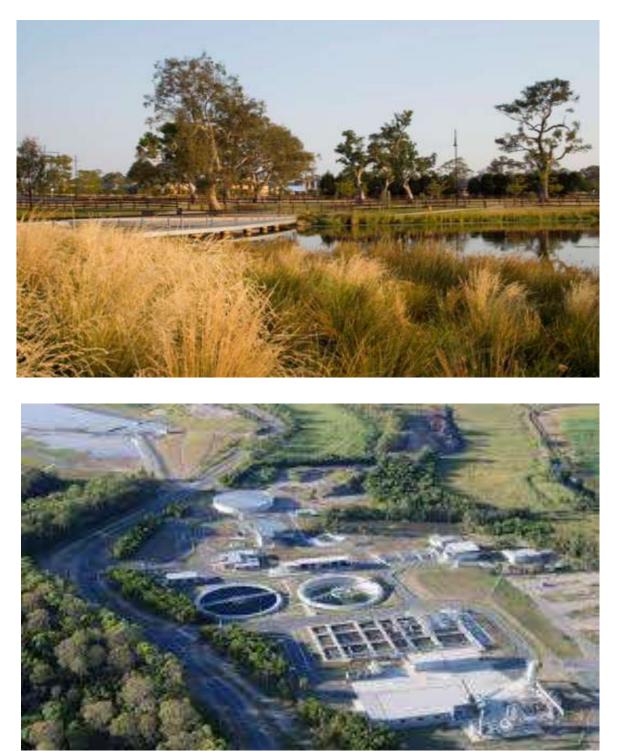


Figure 5: Key environmental components influencing human thermal comfort during the day. Trees block (e.g. absorb and reflect) solar radiation and shade urban surfaces. Cool surfaces.









CRC for Water Sensitive Cities

Water Sensitive City Transitions

Collaborating for integrated plans that get delivered 18 June 2018

watersensitivecities.org.au



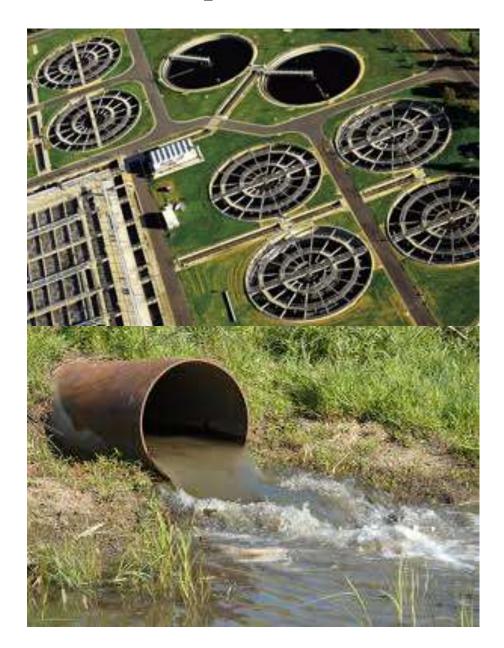
Australian Government

Department of Industry, Innovation and Science

Business Cooperative Research Centres Programme

Water, sanitation and drainage services evolve as cities grow

Complicated

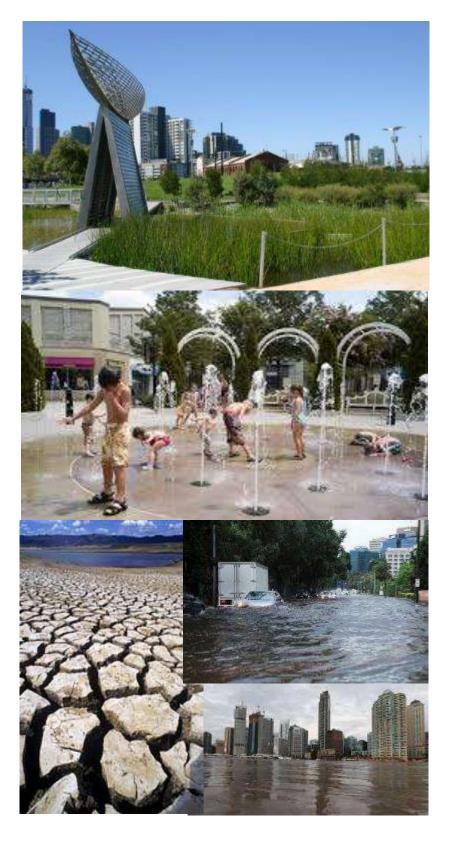


Simple





Complex



How to successfully navigate the transition to water sensitive cities?

Large-scale, centralised, linear, siloed, ...

Current System

Van de Brugge and Rotmans (2007) Futures



Flexible, integrated, distributed, closed loop, context sensitive, ...

Water Sensitive City



Lots of plans but lasting change is not common

Current System





Water Sensitive City



WSC Visions and Transition Strategies Research

October 2016 – December 2018

- Identifying processes and tools to support lasting change
- 5 City Strategies
- 117 Participating organisations
- 274 participants across:
 - municipalities
 - water utilities
 - consultants
 - developers
 - technology providers
 - community groups
 - academia
- Action research design





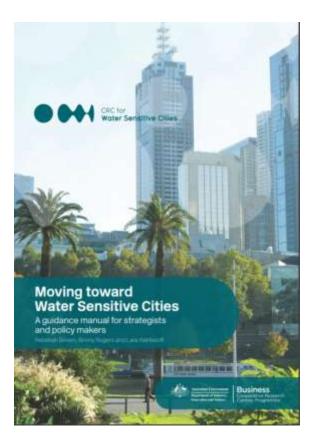
Transition Dynamics Framework

6. Embedding new practice 5. Policy & practice diffusion 4. Knowledge dissemination 3. Shared understanding & issue agreement 2. Issue definition **Current System** 1. Issue emergence



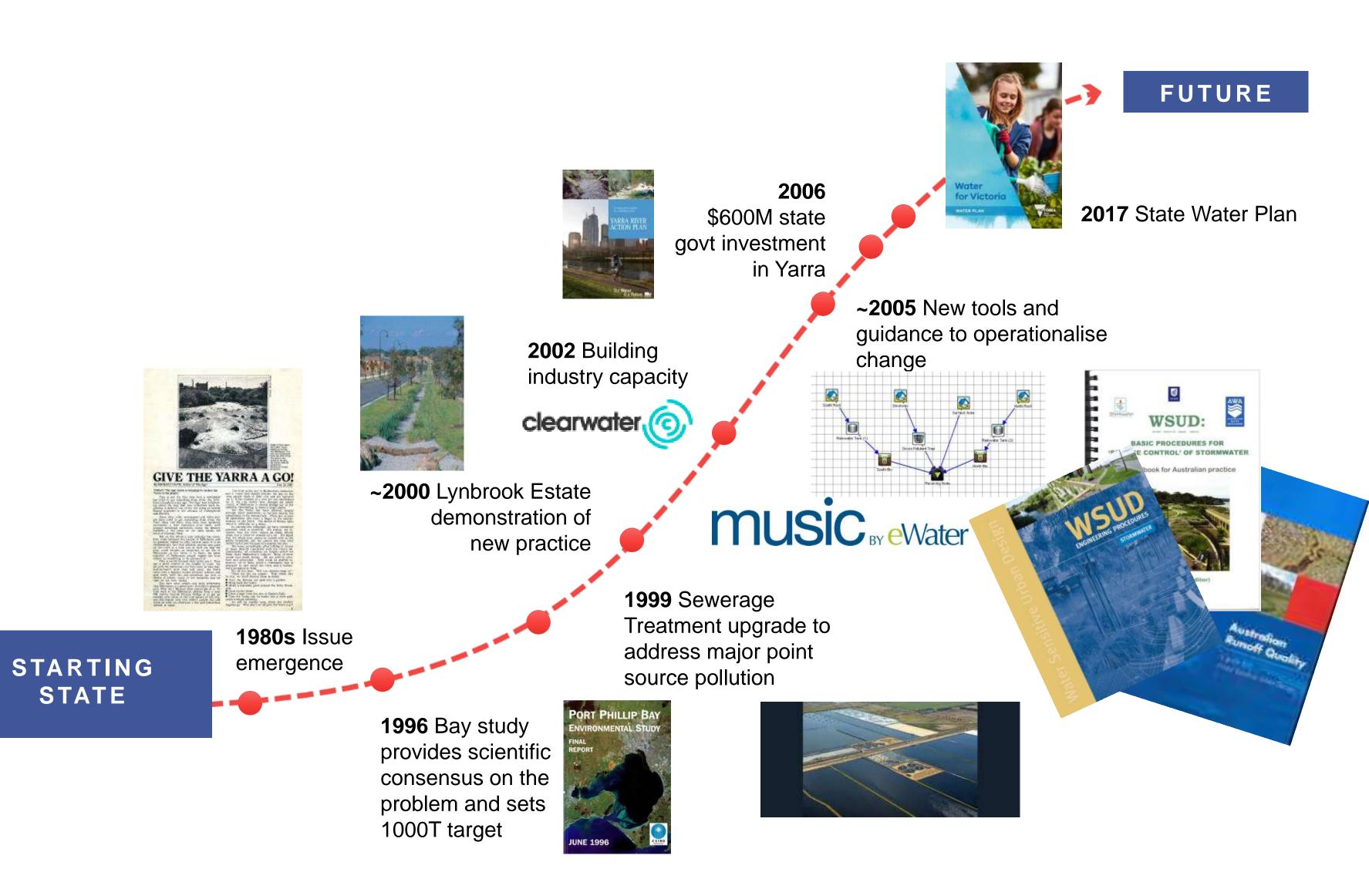
Water Sensitive City





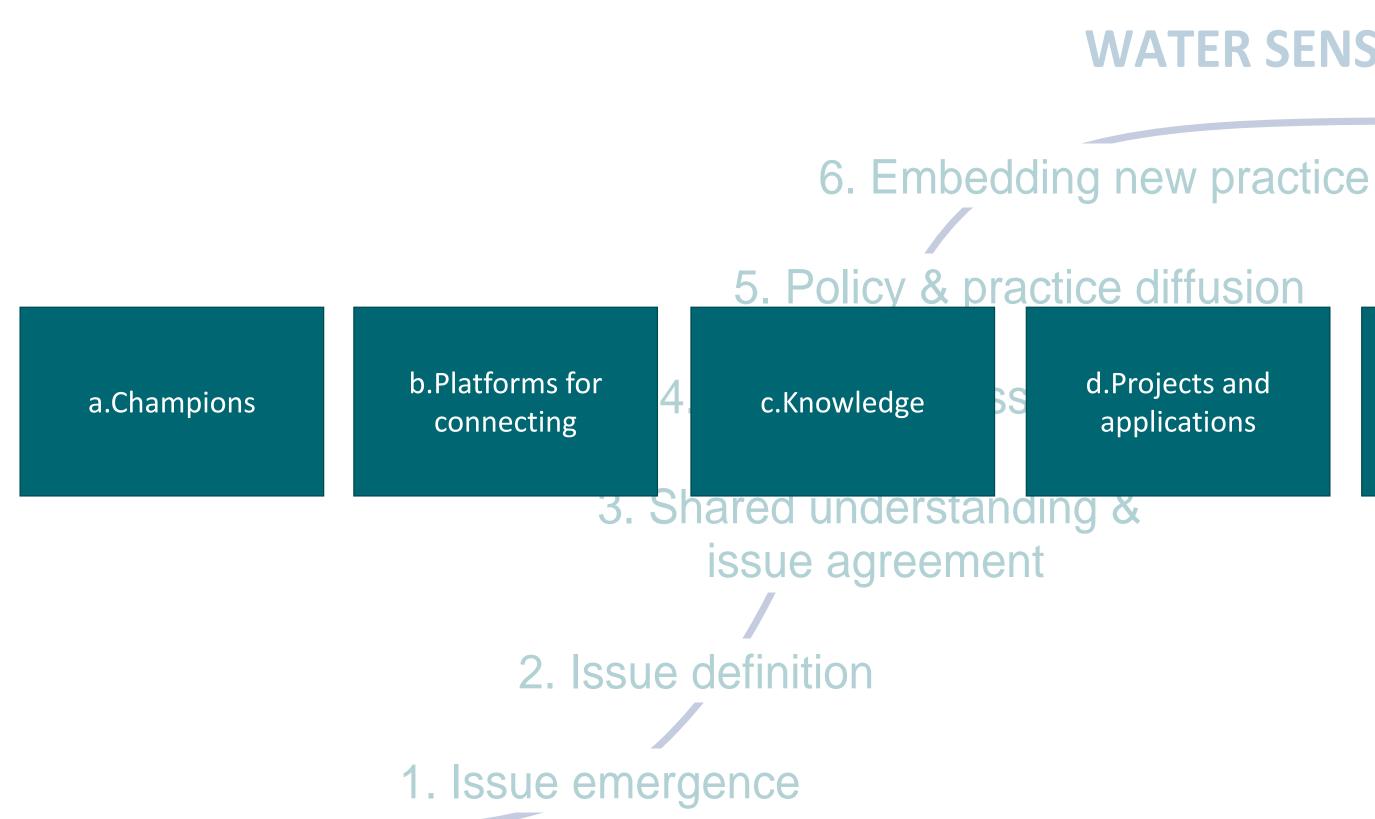
For more information see https://watersensitivecities.org.au/wpcontent/uploads/2016/05/TMR_A4-1_MovingTowardWSC.pdf

Example – Yarra River Water Quality





Transition Dynamics Framework



WATER SUPPLY CITY





WATER SENSITIVE CITY

d.Projects and applications

e.Tools and instruments

Transition phase	a.Champions	b.Platforms for connecting	c.Knowledge	d.Projects and applications	e.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



Transition phase	a.Champions	b.Platforms for connecting	c.Knowledge	d.Projects and applications	e.Tools and instruments
1. Issue emergence	lssue activists		lssue highlighted	lssue 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



Transition phase	a.Champions	b.Platforms for connecting	c.Knowledge	d.Projects and applications	e.Tools and instruments
1. Issue emergence	lssue activists		lssue highlighted	lssue 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



Transition phase	a.Champions	b.Platforms for connecting	c.Knowledge	d.Projects and applications	e.Tools and instruments
1. Issue emergence	lssue activists		lssue highlighted	lssue 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



Transition phase	a.Champions	b.Platforms for connecting	c.Knowledge	d.Projects and applications	e.Tools and instruments
1. Issue emergence	lssue activists		lssue highlighted	lssue 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



Table discussions and feedback

Task

- 1. Discuss an issue in your country (e.g. improving flood resilience, solid/liquid waste management, increasing sanitation coverage, drinking water security,....)
- 2. What stage (1-5) is the issue at?
- 3. Which enablers (a-e) are in place already (green) to support further progress?
- 4. Is anything missing from your country action plan?
- 5. Report back to the group

Transition phase	a.Champions	b.Platforms for connecting	c.Knowledge	d.Projects and applications	e.Tools and instruments
1. Issue emergence	Issue activists		lssue 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



Analytical Tools

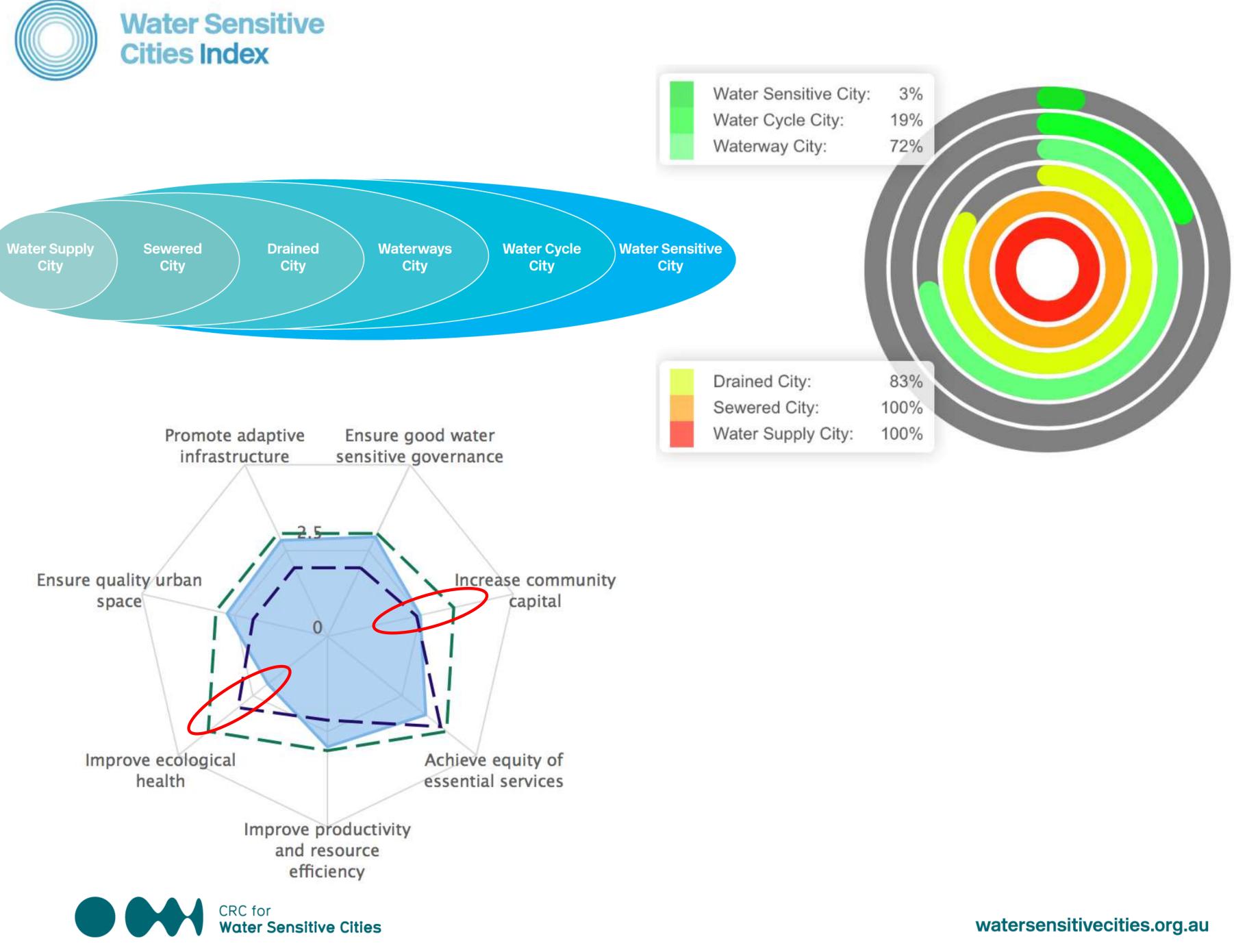


1 WSC Index Where are you now? Where do you want to go?



ampions	Platforms for connecting	Knowledge	Projects and applications	Tools and instruments
lssue ctivists		lssue highlighted	lssue examined	
dividual ampions	Sharing concerns and ideas	Causes and impacts examined	Solutions explored	
nnected ampions	Developing a collective voice	Solutions developed	Solutions experimented with	Preliminary practical guidance
luential ampions	Building broad support	Solutions advanced	Solutions demonstrated at scale	Refined guidance and early policy
nisational ampions	Expanding the community of practice	Capacity building	Widespread implementation and learning	Early regulation and targets
Multi- keholder etworks	Guiding consistent application	Monitoring and evaluation	Standardisation and refinement	Comprehensive policy and regulation

2 Transitions Dashboard How do you get there?



Process and relationships just as important as tools and reports

Aim:

- Build understanding, trust and commitment to shared vision and action
- Collaboration in planning, accountability in delivery

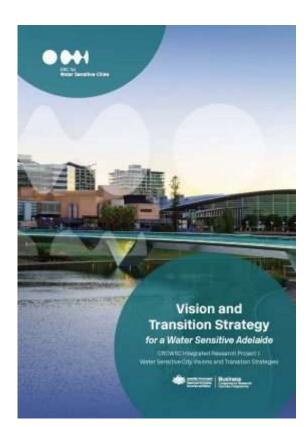


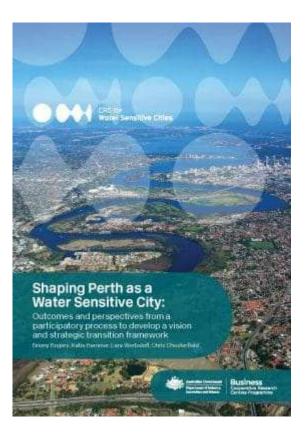


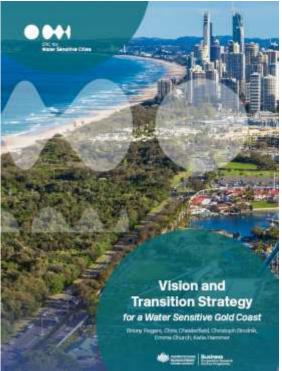












Common Australian findings

- Need for adaptive, collaborative governance arrangements
- Importance of relationships and informal networks
- Need for an explicit learning agenda associated with trials and demonstrations
- Emerging recognition of the importance of embracing Aboriginal values and way of thinking in water planning and decision-making – a different culture needs a different approach
- Empowering communities to be active partners in water system stewardship is challenging, context specific and takes time and \$ to do well but the rewards are significant. – beware over promising and under delivering
- Awareness of politics and windows of opportunity important



CRC for Water Sensitive Cities

World Bank IUWM Study Tour WSC Transition activities

Kerrie Burge

watersensitivecities.org.au



Australian Government

Department of Industry, Innovation and Science Business Cooperative Research Centres Programme

Transition phase	Champions	Platforms for connecting	Knowledge	Projects and applications	Tools and instruments
1. Issue emergence	Issue activists		lssue highlighted	Issue examined	
2. Issue definition	Individual champions	Sharing concerns and ideas	Causes and impacts examined Solutions		
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



Champions

lssue activists

Individual champions

Connected champions

Influential champions

Organisational champions

Multi-stakeholder networks

In-country teams (community field workers, build team, lab techs)









Champions

CECs and KePoLinks

Issue activists

Individual champions

Connected champions

Influential champions

Organisational champions

Multi-stakeholder networks







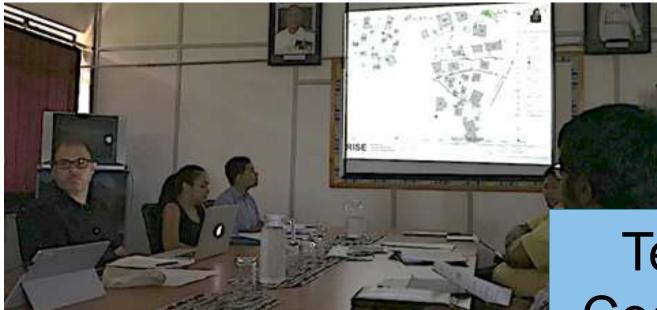


Champions

Issue activists

Individual champions

Connected champions





Technical Coordination Committee

Connected champions

Influential champions

Organisational champions

Multi-stakeholder networks





Community Engagement Committee / **KePoLink**

Residents



Platforms for connecting

Platforms for connecting



Sharing concerns and ideas

Developing a collective voice

Building broad support

Expanding the community of practice

Guiding consistent application









CRC for Water Sensitive Cities

Knowledge

lssue highlighted

Causes and impacts examined

Solutions developed

Solutions advanced

Capacity building

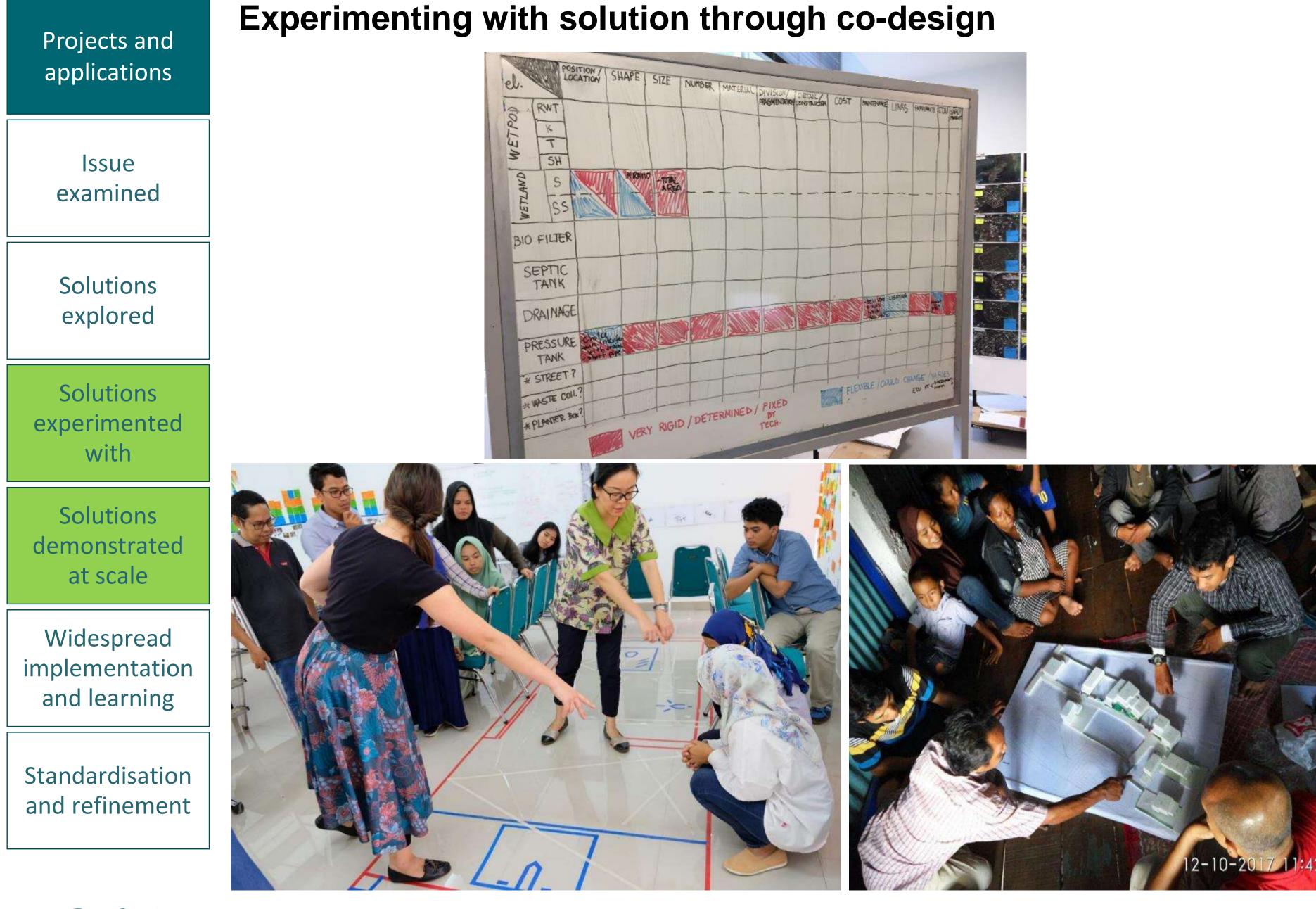
Monitoring and evaluation

Capacity Building - IWM Training









CRC for Water Sensitive Cities

Projects and applications

lssue examined

Solutions explored

Solutions experimented with

Solutions demonstrated at scale

Widespread implementation and learning

Standardisation and refinement

Demonstrating the approach





Contact us

CRC for Water Sensitive Cities 8 Scenic Boulevard, Level 1, Building 74 Monash University Clayton, VIC 3800, Australia

+61 3 9902 4985 For enquiries please contact Ebony Henderson.



@CRCWSC Follow us on Twitter.





watersensitivecities.org.au

Find out more about us or download our research.





Follow us on YouTube

/WaterSensitiveCities

Thank you.

