



CRC for
Water Sensitive Cities



Australian Government
Department of Industry,
Innovation and Science

Business
Cooperative Research
Centres Programme

IRP1 Transition Strategies and Implementation Plans

Project Background
March 2017

watersensitivecities.org.au

Towards water sensitive cities

Bringing stakeholders together to develop strategic alignment for deliberately steering WSC transitions

Water Sensitive City



Current System



Regional needs identified in T2 process

1. Strengthened and aligned policy, legislation and regulation in support of WSCs
2. Shared vision and narrative for WSCs that connects with community values and drives decision-making
3. New economic and financial models and incentives that recognise the values and benefits of a WSC
4. Robust and inclusive decision-making frameworks
5. Governance framework to enable coordination and collaboration across agencies and sectors
6. Holistic evaluation frameworks to support WSC investments
7. Guidance on how to develop context-specific solutions
8. Achieving multiple benefits through integrated planning and design of water systems and the urban form
9. Develop next generation flood risk assessment framework and tools as part of a WSC approach
10. Monitoring and evaluation for improved system design and performance
11. Efficient and effective operations and maintenance systems to achieve WSC outcomes
12. Coherent understanding of groundwater systems and interactions with surface waters
13. Leadership and influence
14. A culture of learning and innovation
15. Translation and sharing of WSC knowledge
16. Building community connection and engagement
17. Building capacity to deliver a water sensitive city

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1. Strengthened and aligned policy, legislation and regulation in support of WSCs
2. Shared vision and narrative for WSCs that connects with community values and drives decision-making
3. New economic and financial models and incentives to recognise the values and benefits of a WSC
4. Robust and inclusive decision-making processes
5. Governance framework for WSCs that facilitates coordination across agencies and sectors
6. WSC investments that deliver multiple benefits through integrated planning and the urban form
7. Develop next generation of WSC leaders as part of a WSC approach
8. Monitoring and evaluation of WSC design and performance
9. Efficient and effective operation and maintenance systems
10. Coherent understanding of groundwater systems and their interactions
11. Leadership and influence
12. A culture of learning and innovation
13. Translation and sharing of WSC knowledge
14. Building community connection and engagement
15. Building capacity to deliver a water sensitive city

Long-term vision and narrative grounded in local community values

Sector-wide leadership, alignment and coordination

Commitment to learning, innovation and collaboration



IRP1 aims and objectives

Deliver a suite of participatory methods and associated tools for developing strategic guidance to cities and towns who want to accelerate WSC transitions

Improve CRCWSC methods and tools

1. Enhance, refine, implement and evaluate the developed benchmarking and envisioning methodologies across different scales
2. Integrate, test and refine CRC knowledge and tools into the methodologies to support communication and understanding about WSC concepts
3. Monitor and evaluate the effectiveness of the participatory methodologies, transition strategies and implementation plans

Influence local policy and practice

4. Develop transition strategies and implementation plans for case study cities

Tranche 1 Research

Envisioning and transition planning methodology (A4.2)

WSC Index (D6.2)

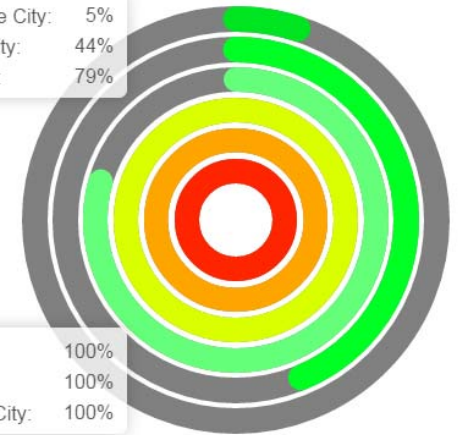
Transition Dynamics Framework (A4.1)

Community engagement strategies (A2)



Water Sensitive City:	5%
Water Cycle City:	44%
Waterway City:	79%

Drained City:	100%
Sewered City:	100%
Water Supply City:	100%



Tranche 1 Research

Envisioning and transition
planning methodology (A4.2)

WSC Index (D6.2)

Transition Dynamics
Framework (A4.1)

Community engagement
strategies (A2)

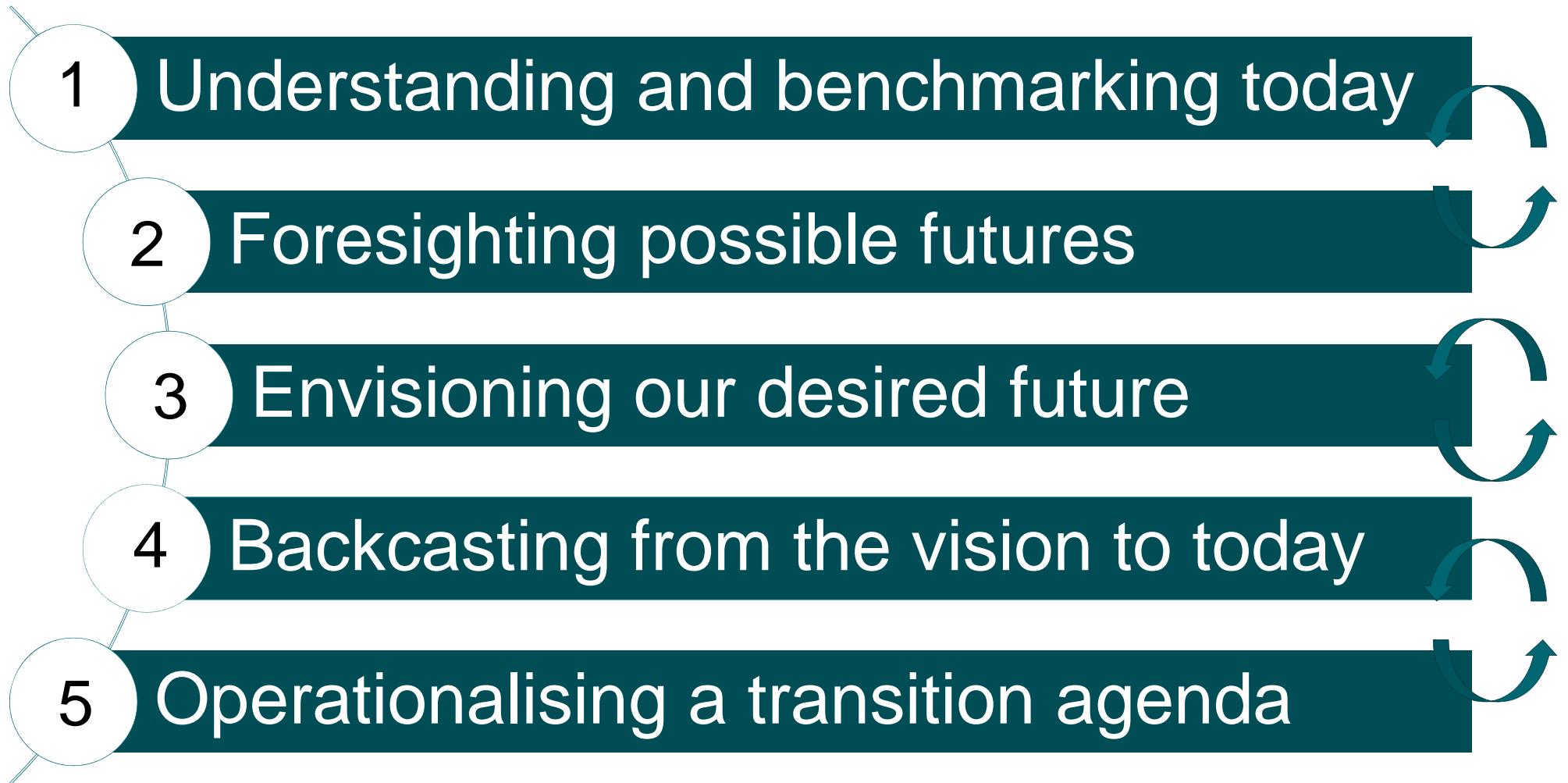
Tranche 2 Research (IRP1)

Framework for developing
transition strategies

Refined methodologies and
tools

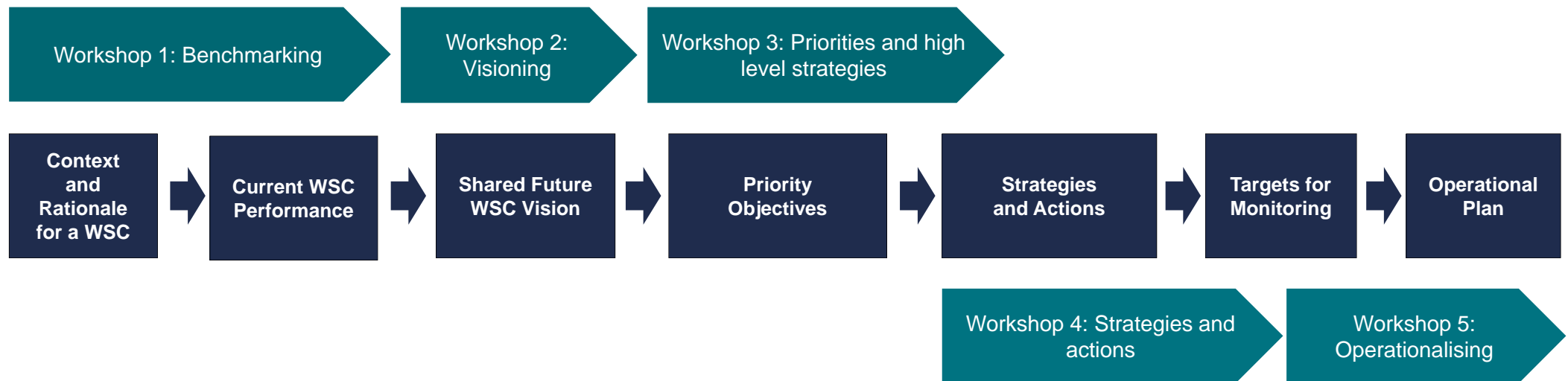
Knowledge on transition
dynamics

Envisioning and transition planning process



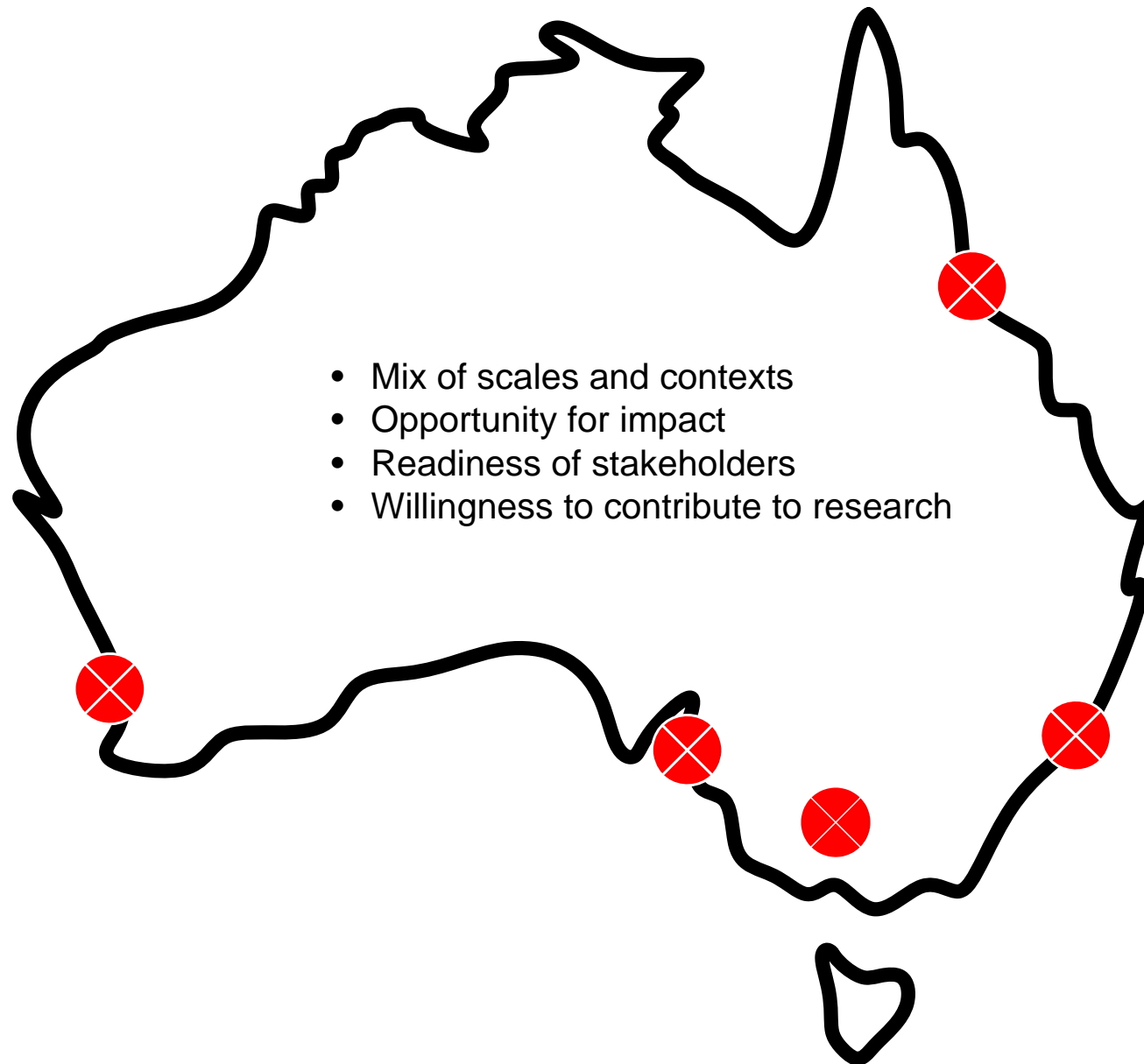
Full vs. preliminary case studies

Preliminary process



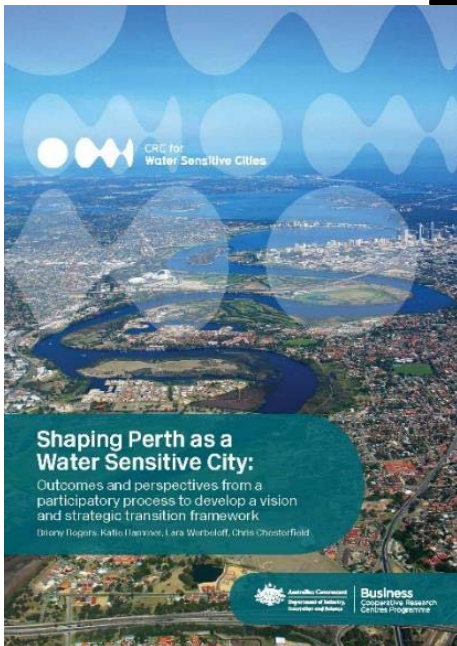
Full process

Case studies



- Mix of scales and contexts
- Opportunity for impact
- Readiness of stakeholders
- Willingness to contribute to research

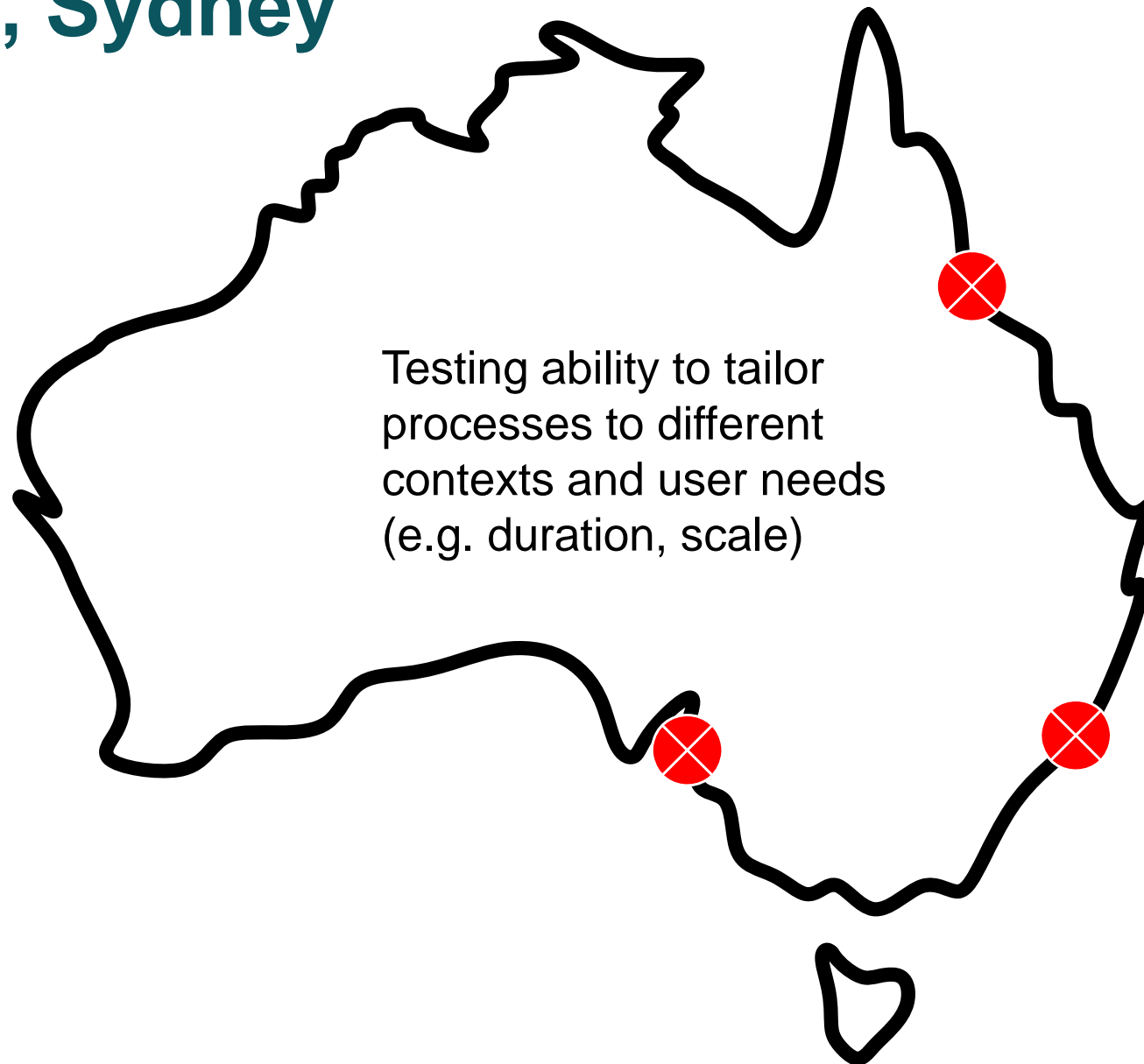
Full process case studies: Perth



Full process case studies: Bendigo



Preliminary case studies: Townsville, Adelaide, Sydney



Tranche 1 Research

Envisioning and transition
planning methodology
(A4.2)

WSC Index (D6.2)

Transition Dynamics
Framework (A4.1)

Community engagement
strategies (A2)

Tranche 2 Research (IRP1)

Framework for
developing transition
strategies

Refined methodologies
and tools

Knowledge on transition
dynamics

City
transition
strategies

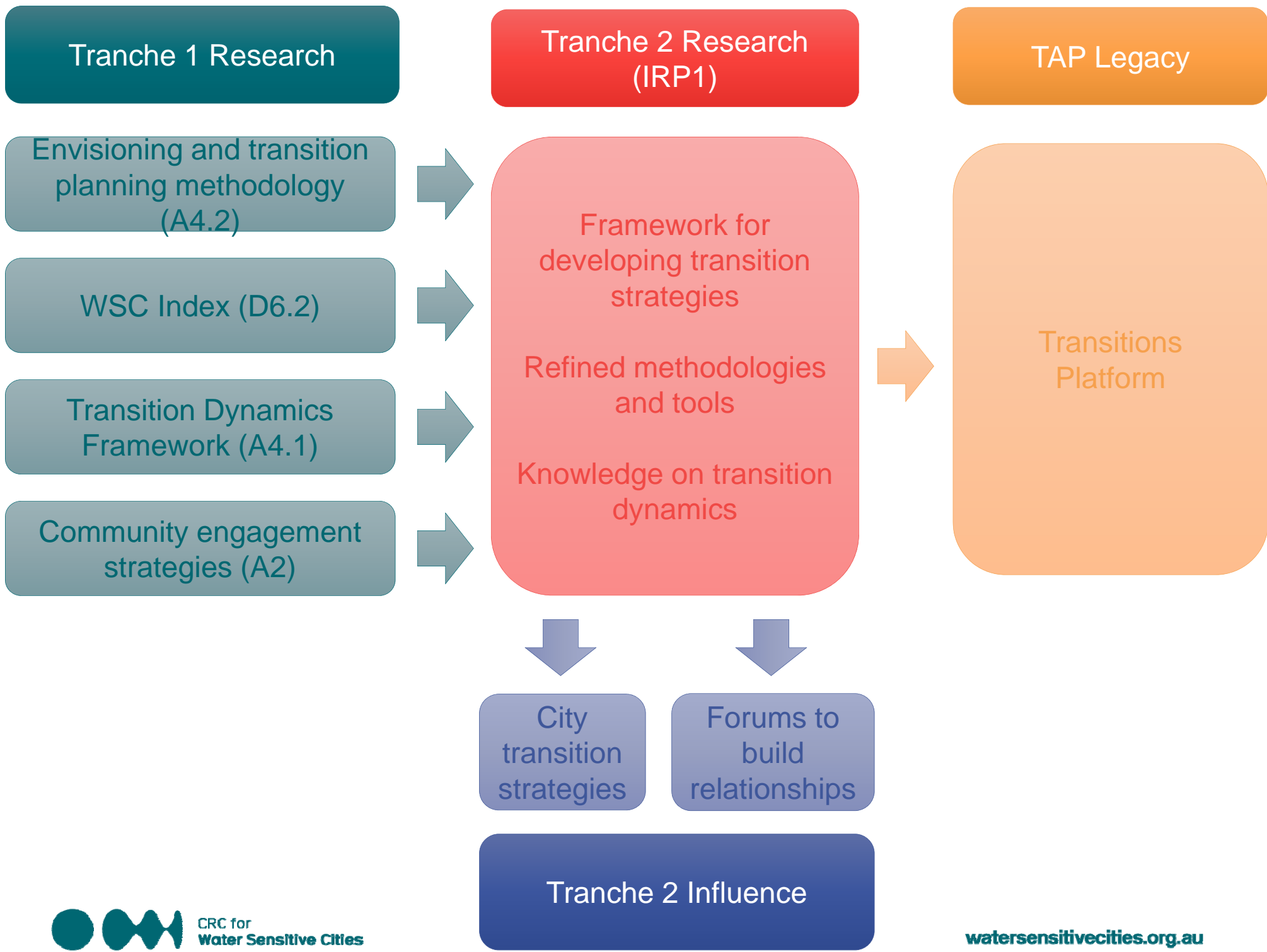
Forums to
build
relationships

Tranche 2 Influence

Transition strategies and implementation plans

- Overarching resource to inform the development of intra- and cross-organisational policies, strategies, and programs in the context of a coordinated, sector-wide strategic framework
- Living document, revisited and updated to maintain relevance and significance for current policy and practice





Transitions Platform

- Purpose is to support the development of transitions guidance for cities and provide a global knowledge hub for city-to-city learning
- Web-based software to make knowledge, methodologies and tools accessible and tailored for industry application
- Comprised of three overarching tools, with interactive visualisation and reporting functionality

Water Sensitive Cities Transitions Platform

WSC Index

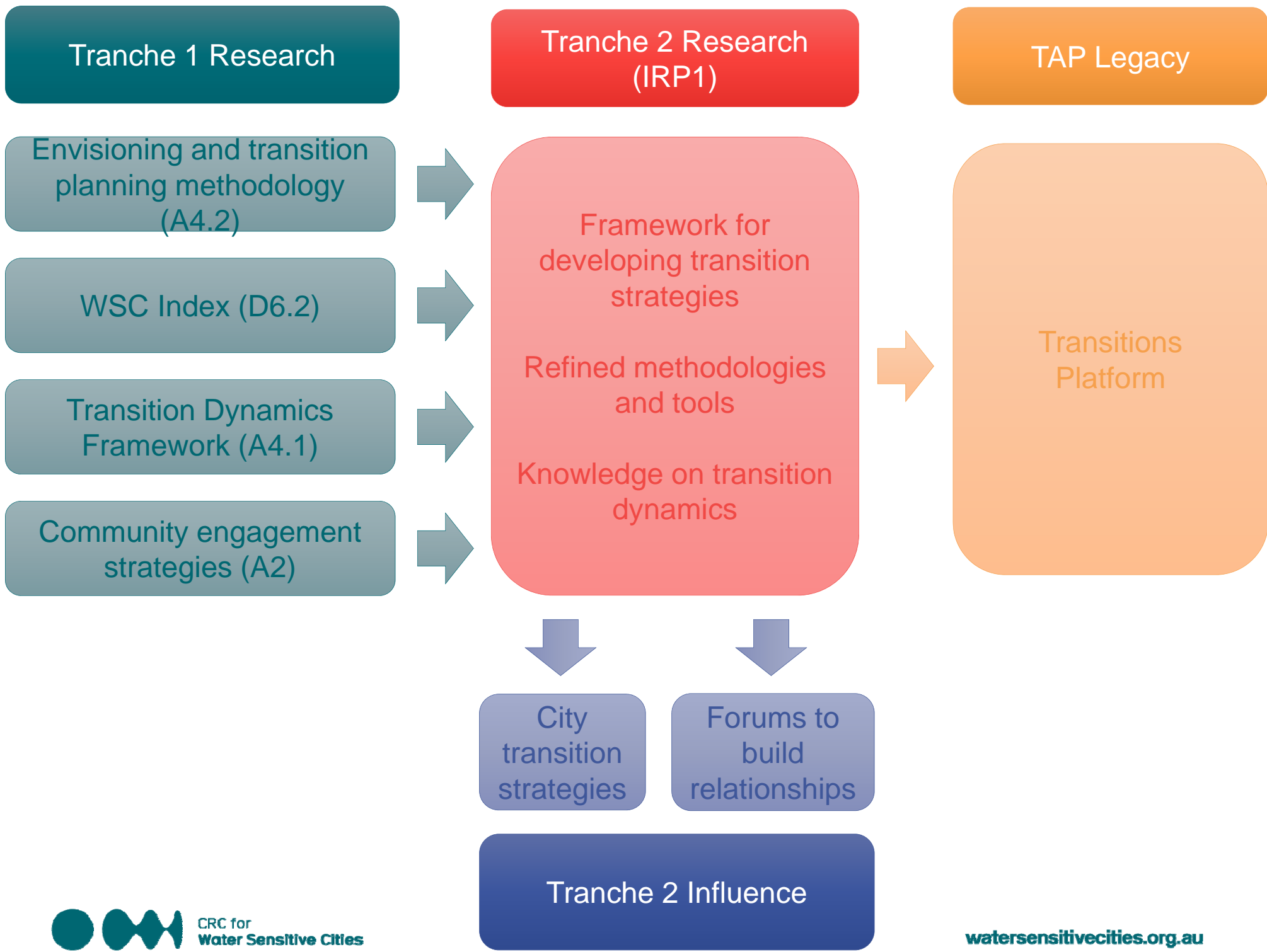
Tool to benchmark and diagnose water sensitive performance

WSC Management Actions

Database and tool to prioritise and design management actions

WSC Monitoring

Tool to set targets, develop implementation plans, monitor and evaluate management actions



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.



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Thank you.