



CRC for  
Water Sensitive Cities



Australian Government  
Department of Industry,  
Innovation and Science

**Business**  
Cooperative Research  
Centres Programme



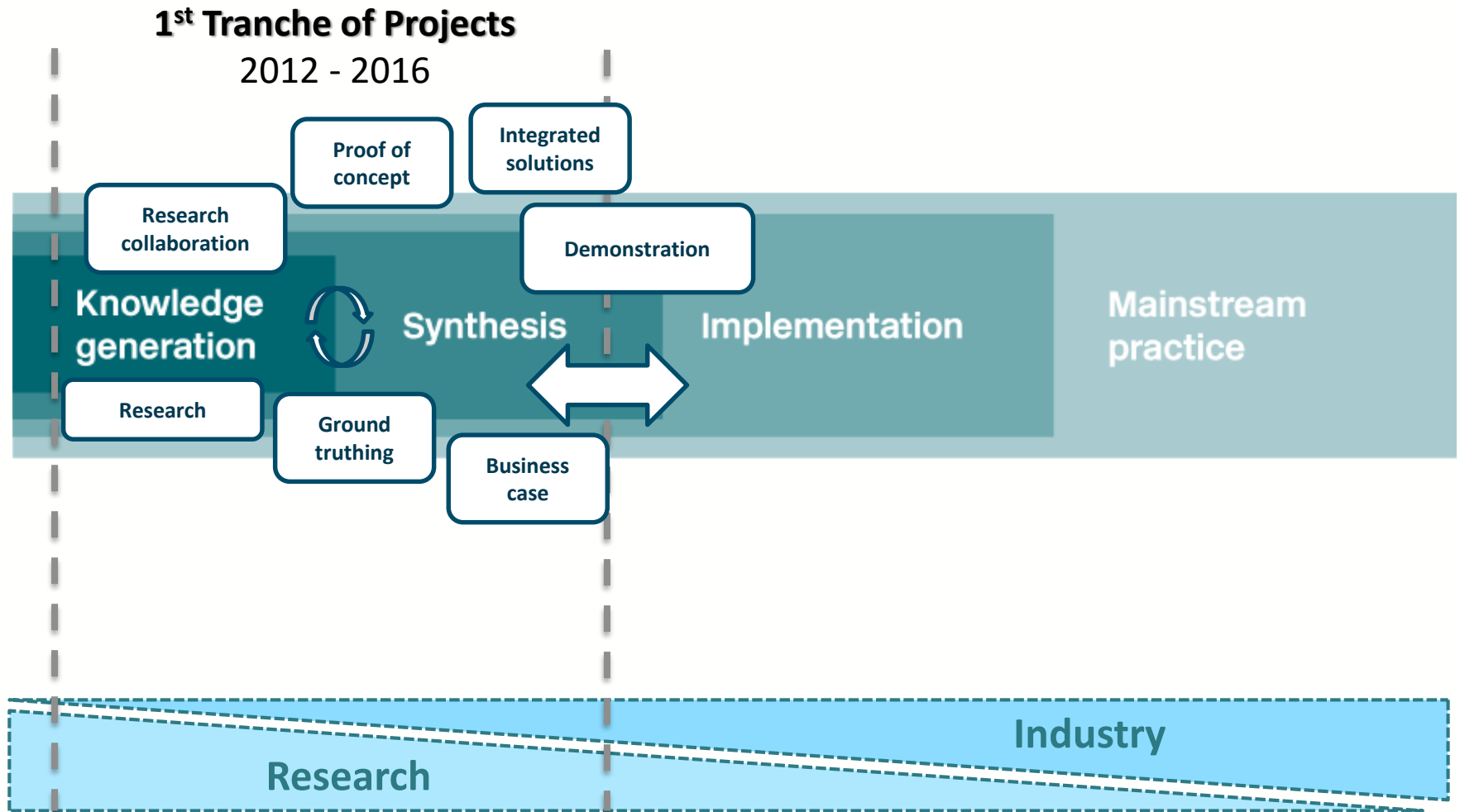
# Introduction to Integrated Research Projects

**Jurg Keller**  
**Chief Research Officer**

2017

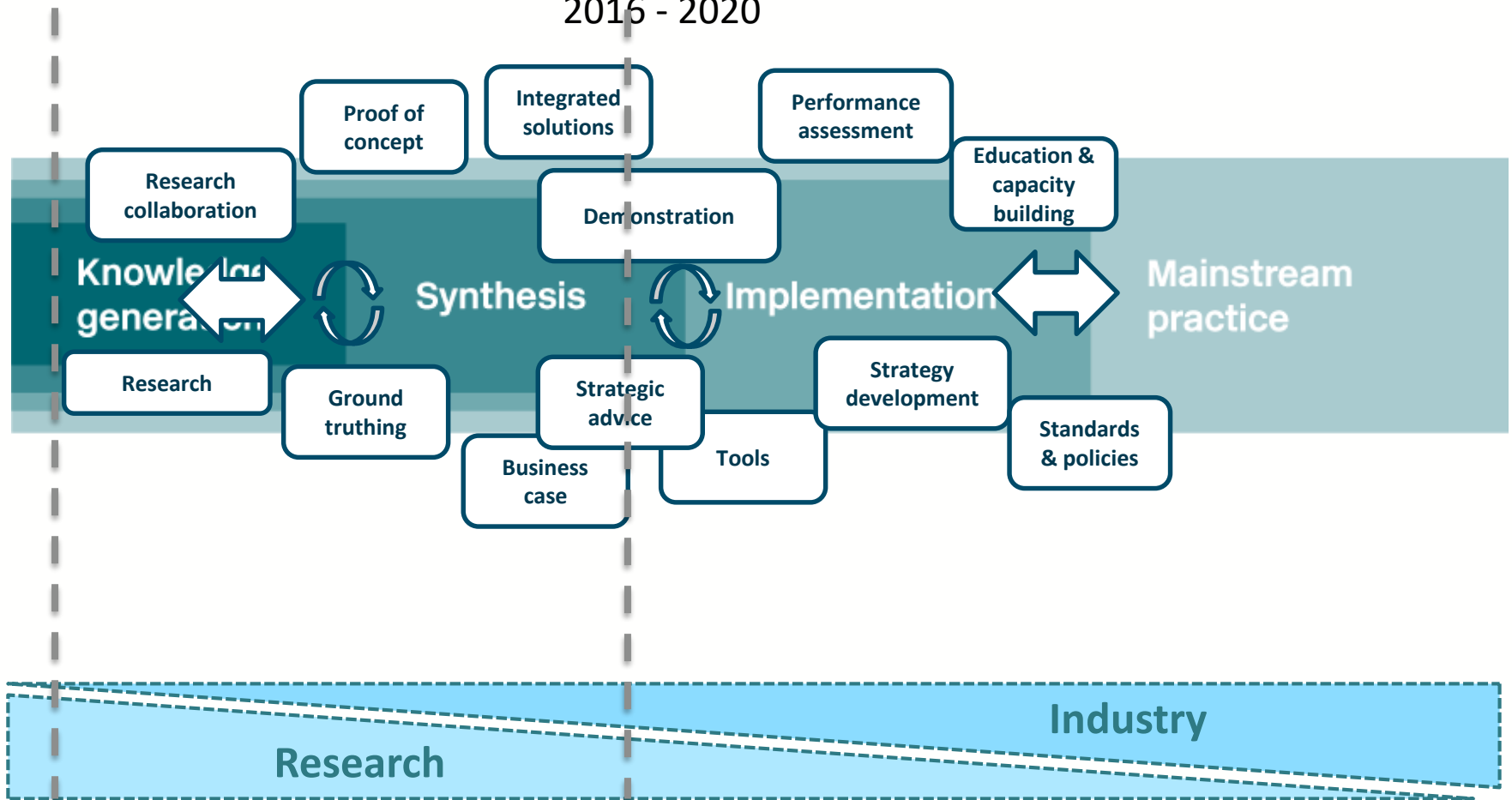
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# Evolution of the CRCWSC

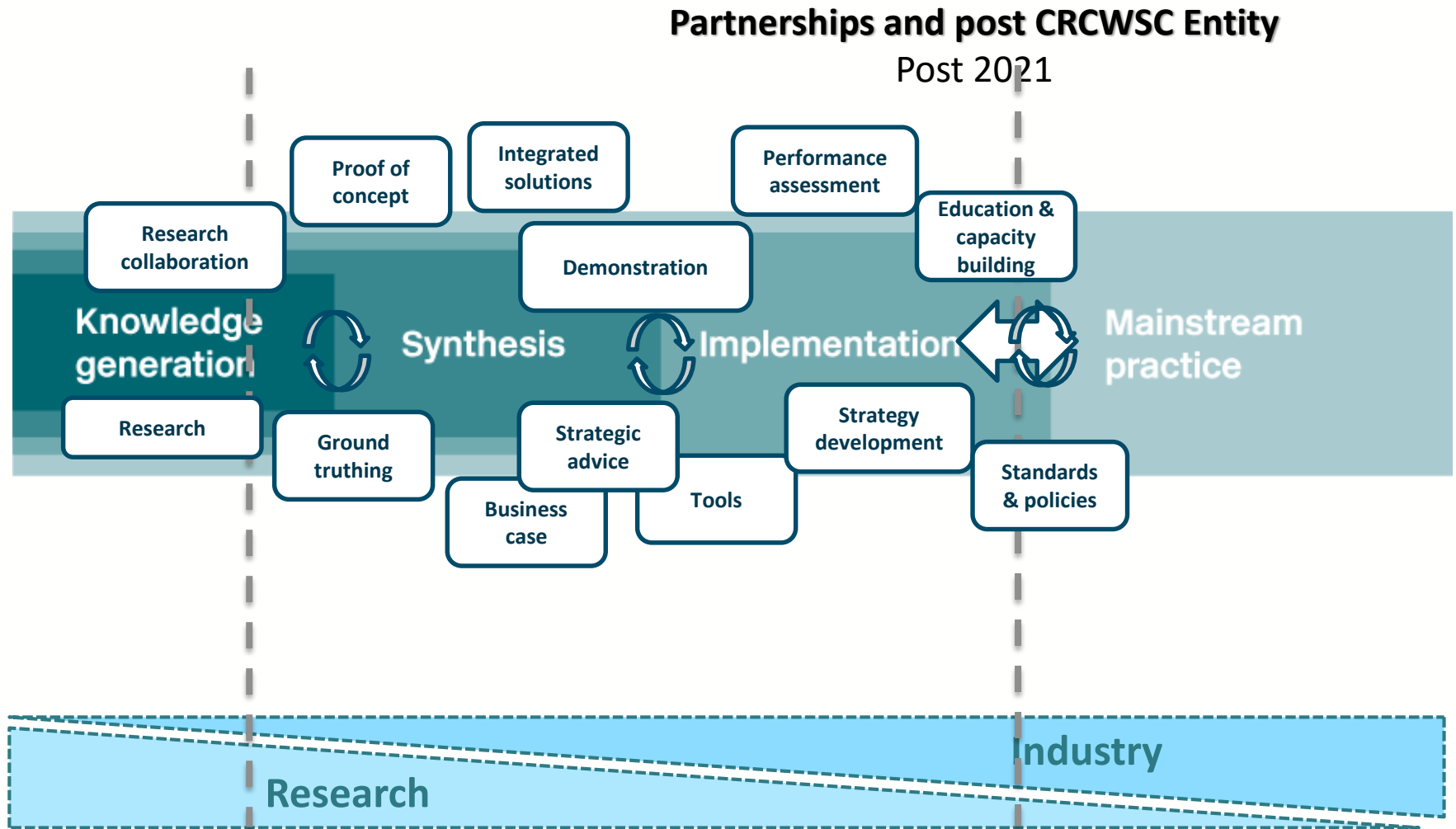


# Evolution of the CRCWSC

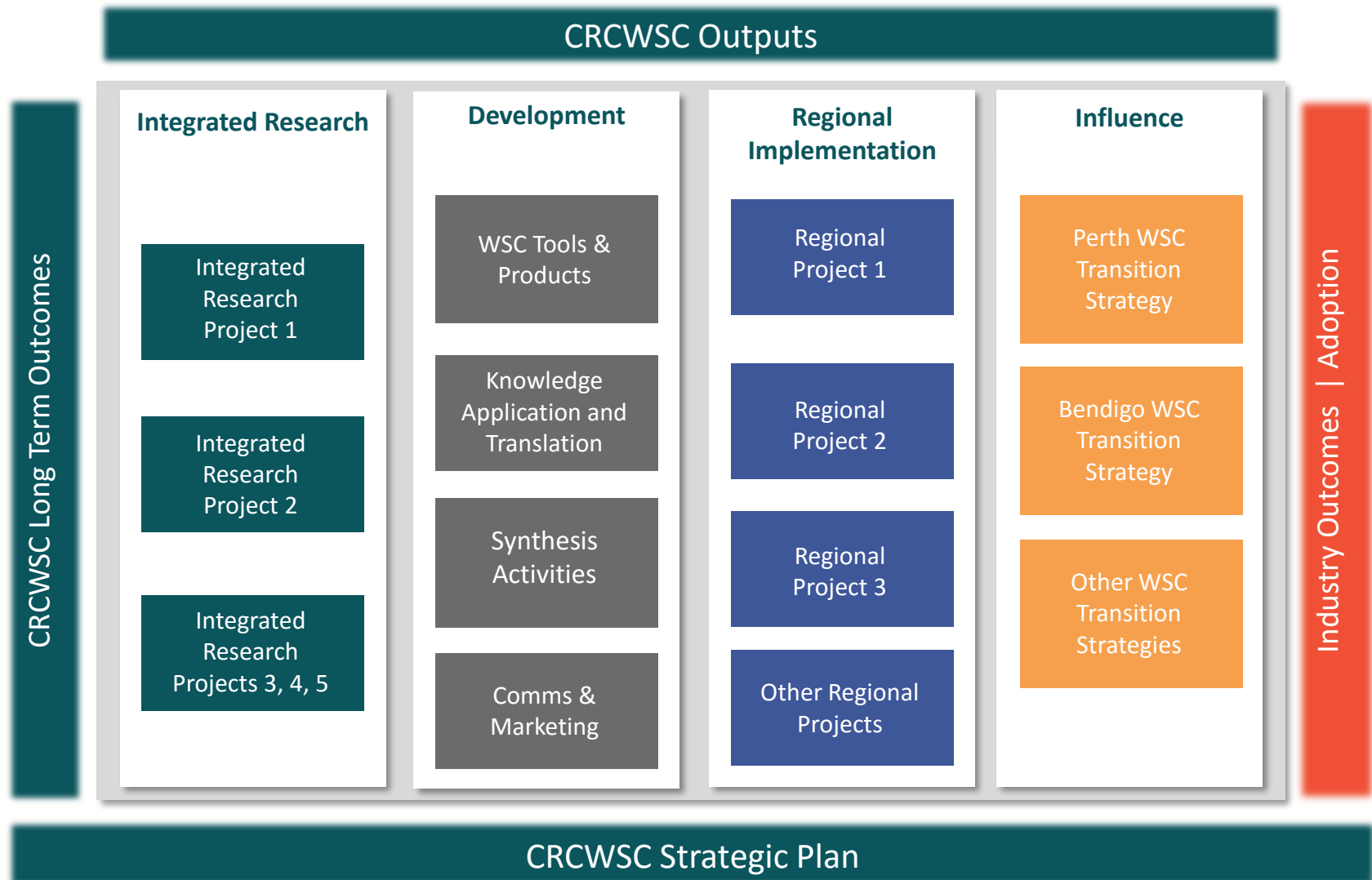
## 2<sup>nd</sup> Tranche of Projects 2016 - 2020



# Evolution of the CRCWSC



# Structure of T2 program





## 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





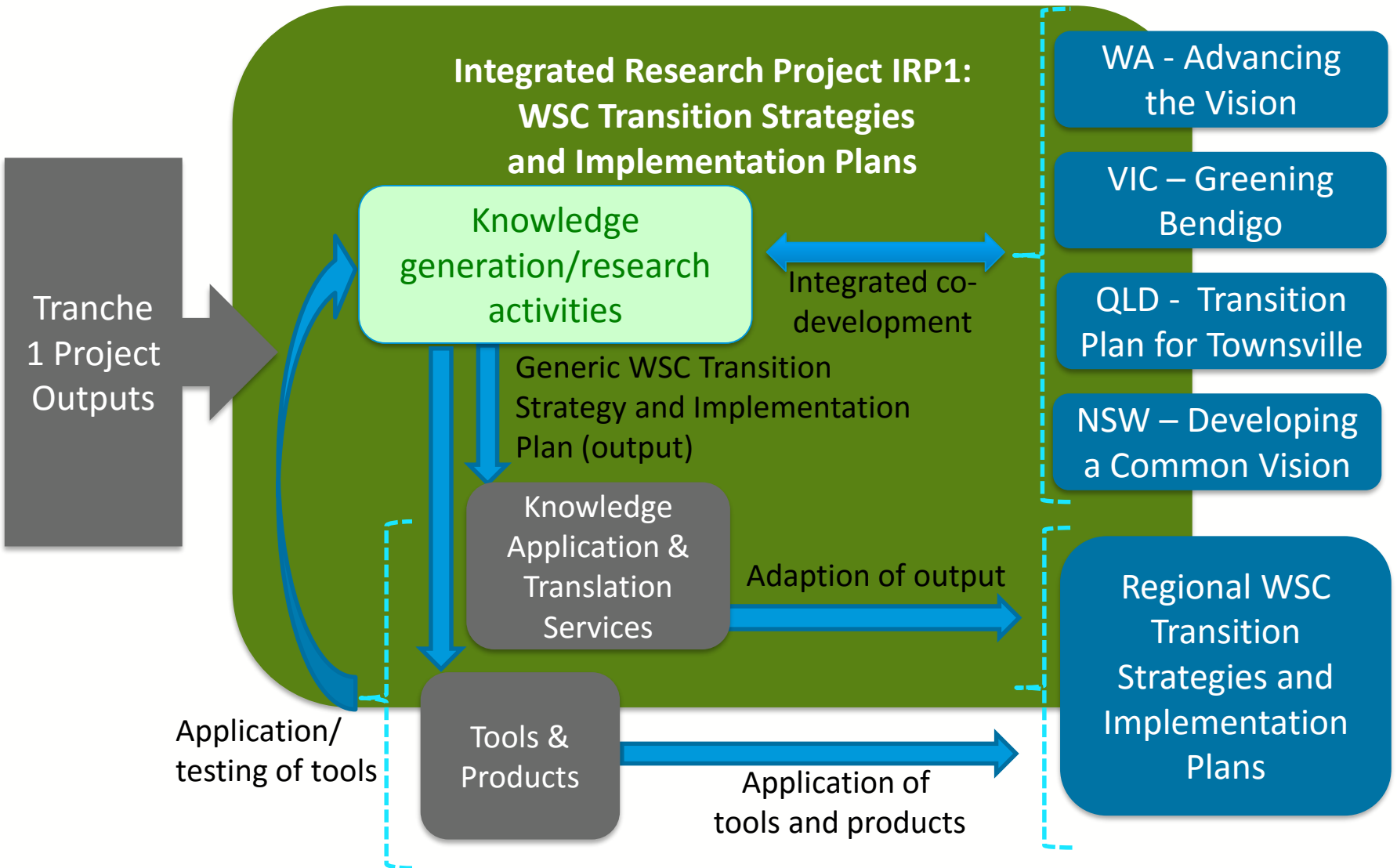


# Core principles of IRPs

- **Focus on particular challenge or opportunity** of national importance addressing key strategic needs
- **Integration of different key expertise and outputs** from Tranche 1 research activities
- **Integration of different institutions/organisations** with common interest in the project topic and outcomes
- **Integration** of core **research** activities with developing **tools/products** and specific **case studies** driven from industry needs
- Opportunity to bring **additional resources** to the projects through **direct investments** from CRCWSC participants and other stakeholders



# Example of Project Interactions – IRP1





# Initial T2 Integrated Research Projects (IRPs)

## IRP1: WSC Transition Strategy and Implementation Plans

- **Aim:** Develop WSC Transition Strategies for each RAP region with strong alignment of vision and support across all relevant stakeholders
- **Output:** WSC Transition Strategies and Implementation Plans for each RAP region to outline shared pathway towards overall beneficial outcomes

## IRP2: Integrated economic assessment and business case development for WSCs

- **Aim:** Create an agreed evaluation framework to identify economic, environmental and community values of water-related investments
- **Output:** Accepted and aligned evaluation framework that is applied to business case development and decision making at multiple levels in public and private sector organisations

# Planned T2 Integrated Research Projects (IRPs)

## IRP3: Evidence-based integrated urban planning across different scales

- **Aim:** Enable integrated planning processes across different scales and jurisdictions utilising knowledge-based evidence as key input
- **Output:** Policy development and implementation framework that supports and demonstrates the application and value of evidence based integrated planning at different scales

## IRP4: Achieving WSC outcomes for in-fill developments

- **Aim:** Developing solutions that deliver overall beneficial WSC outcomes for in-fill developments at different scales
- **Output:** Innovative solutions and integrated strategies across policy, regulatory, financial, technology and community approaches to achieve positive WSC outcomes for in-fill developments

## IRP5: Knowledge-based WSC solutions for groundwater impacted developments

- **Aim:** Understanding the impact and generating WSC solutions for developments in regions with high groundwater tables.
- **Output:** Guidelines and innovative solutions that achieve effective WSC outcomes for groundwater impacted developments

# Tranche 2 Development Timeline FY1617

Project/Program	Q1	Q2	Q3	Q4	FY17/18
<b>IRP1: WSC Transition Strategies</b>	AC & EPRG Reviews; Board approval	Started			
<b>IRP2: Economic Evaluation Framework</b>	Planning/proposal development	AC & EPRG Reviews; Board approval	Started		
<b>IRP3: Integrated Urban Planning</b>		Scoping and planning	Proposal development	AC & EPRG Reviews; Board approval	
<b>IRP4: In-fill Developments</b>		Scoping and planning	Proposal development	AC & EPRG Reviews; Board approval	
<b>IRP5: WSC Solutions for Groundwater-affected areas</b>		Scoping and planning	Proposal development	AC & EPRG Reviews; Board approval	
<b>Tools and Products (TAP) Program</b>		Scoping and Planning	Proposal development	AC & EPRG Reviews; Board approval	Commence ment

# Indicative Timeline for Project Development

- 20 April: Proposal outline to be distributed to all interested parties and Advisory Committee (AC) for review and comment
- **27 April:** AC Meeting to provide input for full proposal development
- End May: Full Draft proposal to be distributed to all interested parties for comment
- Mid June: PSC telcon to consider comments and proposal revision
- Early July: Draft full proposal to go to Advisory Committee (AC) and Essential Participants Reference Group (EPRG) for review
- **17 July:** Meeting of AC to provide feedback, gain EPRG input
- **Early Aug:** Final proposal to be included in Board papers
- **28 Aug:** CRCWSC Board Meeting

# Steering Committee Role/Composition

- Leadership group for project development and implementation (core part of overall project team)
- Project Leader plus representation of key research expertise
- Representation of interested RAPs (up to five)
- Involvement of other key industry stakeholders in project
- Target size: 8-10 members
- **Research Advisory Committee** will nominate a ‘RAC champion’ for this project.

# Cooperative Research Centre for Water Sensitive Cities

## IRP5 Workshop: Knowledge-based water sensitive city solutions for groundwater impacted developments

Thursday 6<sup>th</sup> April, 2017

Meeting Room 10, J Block, UWA University Hall, 130 Winthrop Avenue, Crawley WA 6009

### Purpose and expected main outcomes:

1. Agreed overall scope, priorities and structure of the project
2. Agreed plan for developing a full proposal
3. Accepting nominations for the Project Steering Committee

**Facilitator:** Professor Jurg Keller

### Program:

Time	Activity	Notes
8:00 – 8:15	<b>Registration</b> - arrival tea and coffee	
8:15 – 8:45	Welcome / Introductions <ul style="list-style-type: none"><li>• Welcome and introduction of participants</li><li>• Overview of workshop purpose and format</li></ul>	Jurg Keller
8:45 – 9:30	Summary of relevant outputs and findings from Tranche 1 research: B2.4 Hydrology and nutrient transport processes in groundwater/surface water systems B2.2/3 Protection and restoration of urban freshwater ecosystems: informing management and planning C4.1 Integrated multi-functional urban water systems	Carolyn Oldham
9:30 – 10:00	Q&A and discussion on research activities to date	Plenary
10:00 – 10:30	<b>BREAK – Morning tea</b>	



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**10:00 – 10:30 BREAK – Morning tea**

10:30 – 11:15	Needs assessment and expected outputs/outcomes <ul style="list-style-type: none"><li>• Summary of needs identified in T2 consultations, meetings, workshops</li><li>• Industry partners assessment of needs and expected project outputs</li></ul>	Jurg Keller 3 industry partners
11:15 – 12:15	Discussion on overall scope, target audience and expected outputs/outcomes from new project	Jurg Keller Group/plenary discussion

**12:15 – 12:45 BREAK - Lunch**

12:45 – 13:30	Case Studies <ul style="list-style-type: none"><li>• Purpose of case studies in overall project approach (testing &amp; refining approaches, matching outputs to needs from end users)</li><li>• Existing and new ideas</li><li>• Process for developing and selecting relevant case studies</li></ul>	Jurg Keller Plenary discussion
13:30 – 14:15	Project approach and proposed adoption pathways <ul style="list-style-type: none"><li>• Discussion on the best approaches and research/expertise areas required to achieve relevant project outputs</li><li>• Consider/identify best industry engagement and adoption pathways</li></ul>	Group/plenary discussion
14:15 – 14:30	Project Steering Committee - Role and membership	Jurg Keller
14:30 – 14:45	Outline of the plan to develop the full proposal	Jurg Keller
14:45 – 15:00	Summary of the outcomes from the day and follow-up actions	Jurg Keller

**15:00 Workshop close**





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