



We acknowledge the Traditional Owners of the lands in the Murray-Darling Basin and pay respect to their Elders, past, present and emerging.


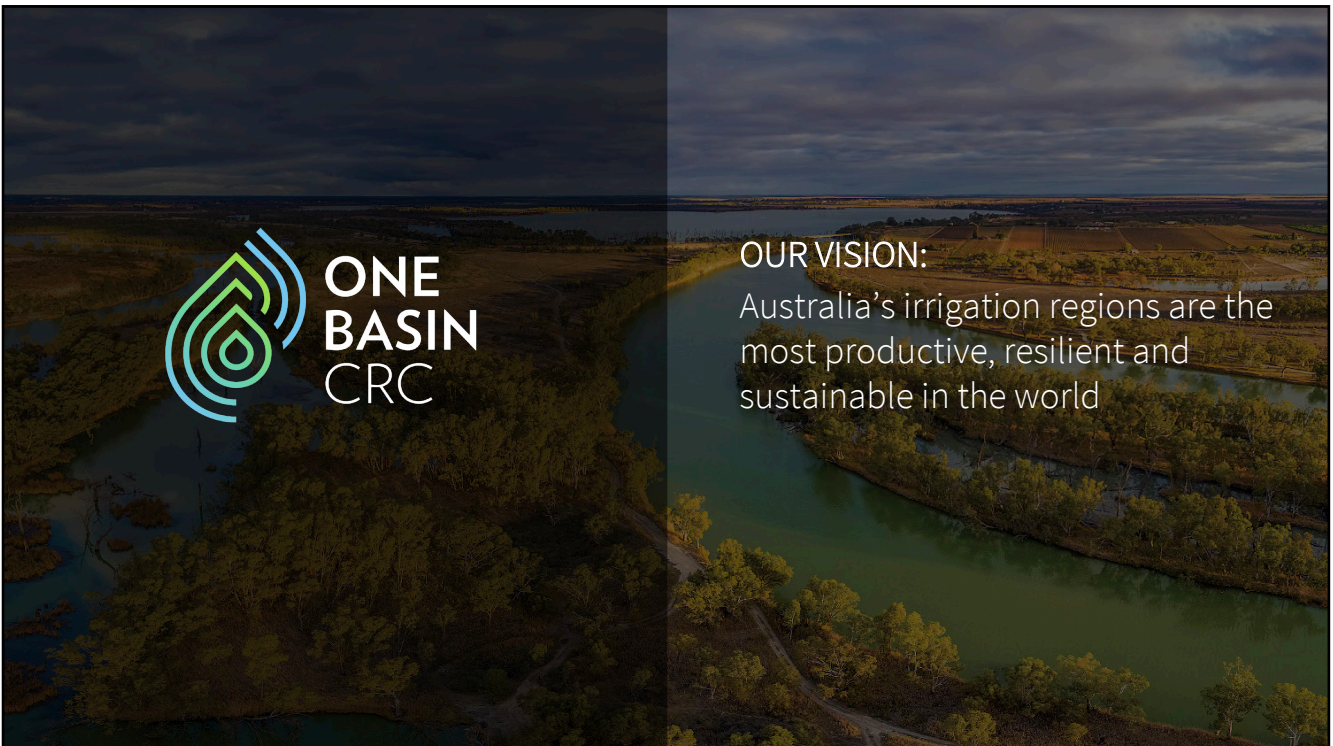


**ONE  
BASIN  
CRC**

**Michael Stewardson**  
Interim CEO

*Productive, resilient,  
and sustainable  
irrigation regions*

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**ONE  
BASIN  
CRC**

**OUR VISION:**  
Australia's irrigation regions are the most productive, resilient and sustainable in the world

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THE OPPORTUNITY AND CHALLENGE FOR IRRIGATION REGIONS



**Research confirms there is not enough water to meet the requirements of the Murray-Darling Basin Plan**



**Farmers' report warns climate crisis puts Australia's food supply at increasing risk**



**First Nations people meet with Murray-Darling Basin Authority to discuss environmental flows**

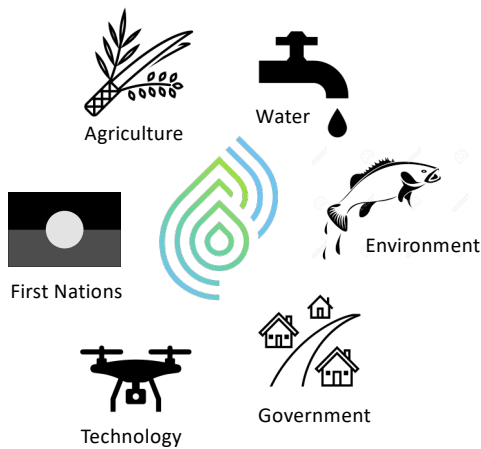


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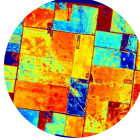

PRODUCTIVE, RESILIENT, AND SUSTAINABLE IRRIGATION REGIONS



**A partnership across sectors**



**... realizing shared opportunities**

-  **Diversify opportunities for water scarce communities**
-  **Transition irrigated agriculture for a drier future**
-  **Design Smart Connected water Infrastructure**

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## ONE BASIN CRC PARTNERSHIP



### END-USER ORGANISATIONS



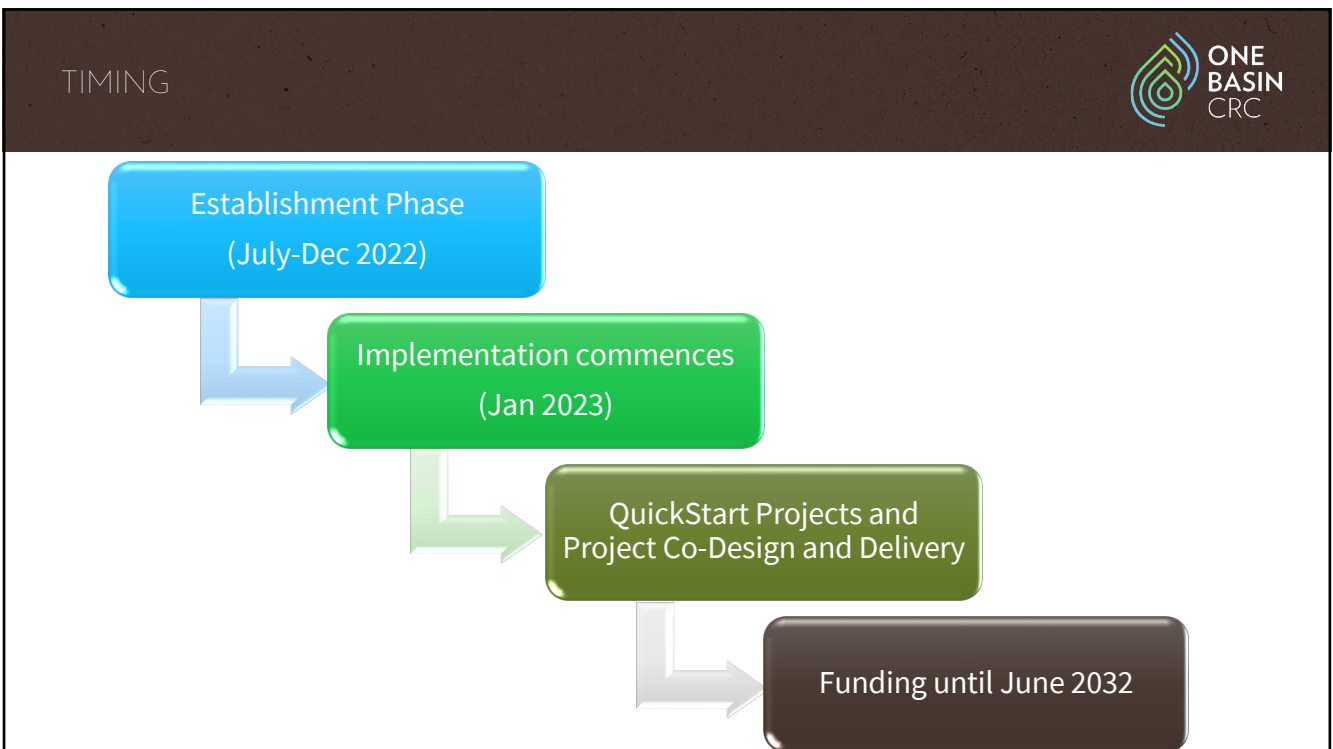
### COMMERCIALISATION PARTNERS



### KNOWLEDGE AGENCIES



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OTHER INITIATIVES AND CAPABILITIES



- » WERP
- » FDF Drought Resilience, Adoption and Innovation Hubs
- » Watertrust Australia
- » CSIRO, ABARES, BoM, eWater
- » Other CRC's
- » ...

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ONE BASIN CRC PROGRAMS



**INNOVATING TECHNOLOGY  
BUSINESS MODELS AND  
INFRASTRUCTURE**



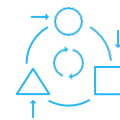
**Technology and  
Opportunity  
Program**



**BUILDING CONFIDENCE  
TO INVEST**



**Foresight and  
Decisions  
Program**



**OVERCOMING BARRIERS  
TO INNOVATION**



**Capability and  
Commercialisation  
Program**

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TECHNOLOGY AND OPPORTUNITY PROGRAM



Example: Forecasting water demands to optimize storage control for rural water supply



**QuickStart Project Outcomes**

- **Increased productivity of the irrigation district**
  - Improved customer service
  - Decreased losses
  - Increased supply efficiency and
  - Increased resilience in dry years

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FORESIGHT AND DECISIONS PROGRAM



Example: Our Changing Water future- “Adapting to change together”



**Project Outcomes**

- **Impacts of drying climate on industry are anticipated and managed**
  - Shared understanding future climate and water scenarios
  - Businesses are better informed to respond to climate change
  - Climate adaptation planning by industry and water agencies is more coordinated and effective

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CAPABILITY AND COMMERCIALISATION PROGRAM



Example: Using brackish groundwater in inland Australia



**Project Outcomes**

- **Increased productivity and resilience of irrigation regions with increased diversity and security of water supply**
- Improved information for business planning and government policy
- Understanding of barriers and risks
- Building collaborative models

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PROGRAM OUTPUTS



- Alternate water sources
- Technologies for improved water supply system operation and design
- Digital technologies for on-farm irrigation
- Innovative agriculture and land management practices



- Tools and models to inform adaptation decision making
- Agricultural commodity-specific risk information
- Models to explore climate and water risks



- Next generation farming and environmental management systems
- Community transition options and tradeoffs
- New cross sectoral governance and leadership models
- Sustainable knowledge systems

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## REGIONAL HUBS





- Relevance
- Partnership
- Trust

*“There is a genuine desire across all levels of Government to secure a vibrant future for our regional communities. To date what is lacking is the collaboration and commitment to the innovation and investment needed to make it a reality.”*

- NFF (2022) Regional Development Precincts

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## REGIONAL HUB ACTIVITY





**Co-Design**



**Regional Hub Manager**



**Staff and PhDs**



**Education and Training**



**First Nations participation**



**Partner management**



**R&D Programs**



**Commercialisation and adoption**



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## QUICKSTART PROJECTS



### Technology and Opportunity

- Integrating irrigation technologies for Horticulture
- Forecasting water demands to optimize storage control for rural water supply
- Rapid detection of equipment failure in water supply systems

### Foresight and Decisions

- Shifting water availability and demand with climate change
- Our Changing Water Future – “Adapting to change together”
- Equity and Vulnerability in a drying basin: water sharing policy and quality of life in towns

### Capability and Commercialisation

- Using brackish groundwater in inland Australia
- Integrating community groups into basin-scale fish tagging and recovery programs
- Using organic waste to increase agricultural production and reduce environmental impacts
- Removing barriers to river recovery; figuratively and literally

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## IBCRC VALUES



- » **VALUE CREATION:** A focus on understanding and delivering value for our partners and their stakeholders
- » **INCLUSION:** Inclusion of diverse interests and perspectives in all our work (including First Nations and the environment)
- » **PARTICIPATION:** Industry is a lead participant in project design and delivery
- » **COMMUNICATION:** A commitment to timely, honest, and respectful communication with our partners
- » **LEGACY CREATION:** Creating a legacy of enduring benefits for Australia beyond the life of the One Basin CRC that is resilient to changing climate and other drivers.

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OPPORTUNITY FOR PARTNERSHIP



- » We are still accepting new industry partners
- » Current cash funding shares
  - \$50m cash from the commonwealth and \$35m from partners over ten years
  - Industry partners will see at least matching cash in the projects of interest to them
- » Three Tiers of Partners
  - Tier 1: >\$300k/year cash
  - Tier 2: >\$150k cash

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Productive, resilient and sustainable irrigation regions

"It's the right partners at the right time for us as we move from a 100 year old "rule of thumb" network to a modern, automated data lead one" - *Murrumbidgee Irrigation*

"This CRC presents a compelling means to redesign high-value and profitable farming systems with scope to double the value/ML of water input. Attaining this on a broad scale across diverse landscapes and communities requires the bold initiative and capacities of this CRC." – *Peter Hayes, Chair, Almond Board Australia*

"We see this CRC as critical to the Basin's sustainability and a future based on best-practice research and learning, which will help grow our region from an economic and population perspective." - *Lawrence Springborg, Mayor, Goondiwindi Council*

"Most important is having local input into the research from people here who have had a great many years of experience in the water industry or in the horticultural industry or the environmental sector"- *Anne Mansell, CEO, Dried Fruits Australia*

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