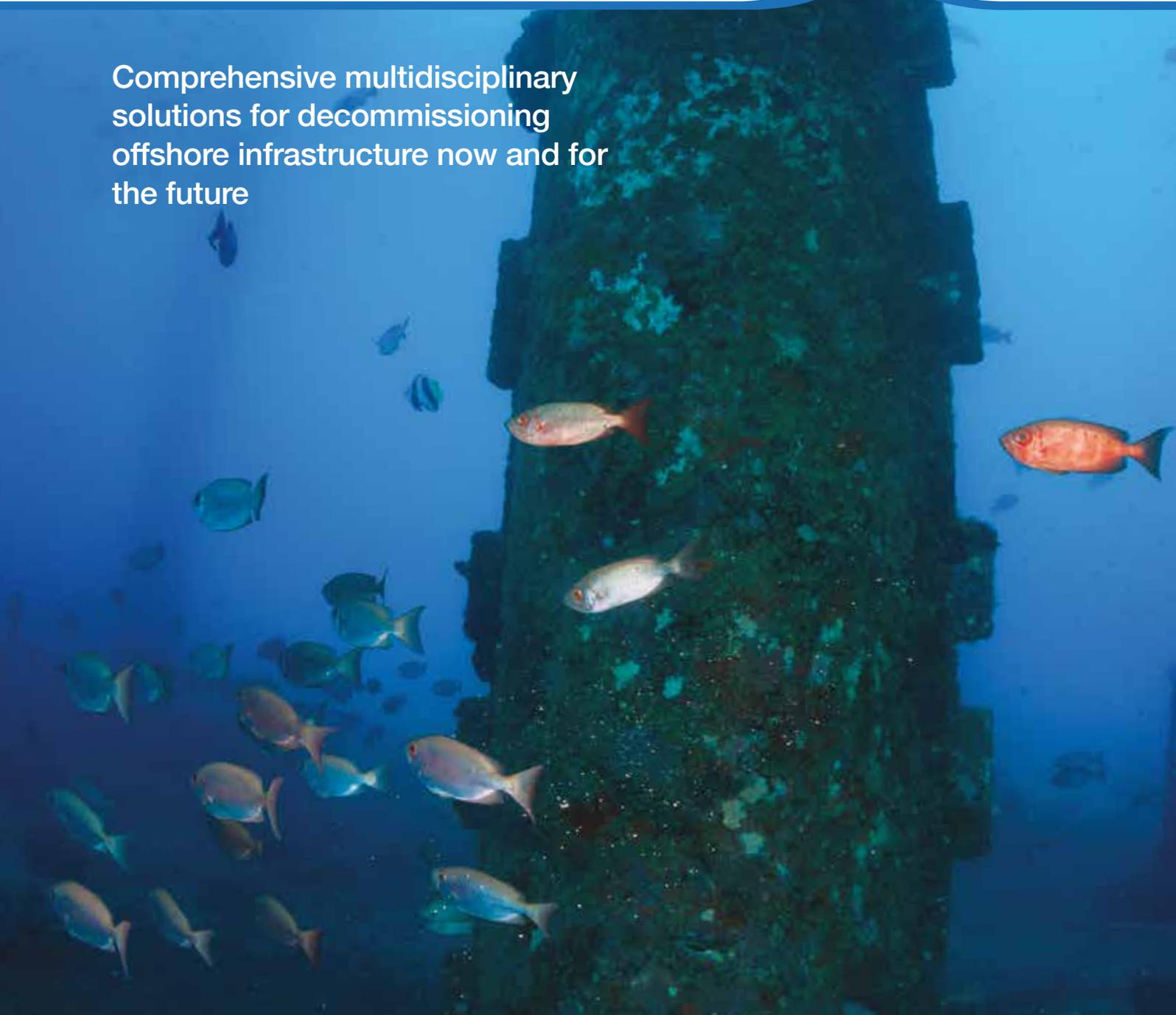


# Decommissioning Offshore Infrastructure Cooperative Research Centre DOI-CRC



Comprehensive multidisciplinary  
solutions for decommissioning  
offshore infrastructure now and for  
the future





## Vision

Bringing together Australian companies and communities to benefit from optimal approaches to decommissioning offshore infrastructure, which will contribute to a more competitive local oil and gas industry and optimised environmental outcomes.

## Challenge

Decommissioning of offshore infrastructure has become a major issue facing the global offshore energy industry.

Australia has an enormous future liability in offshore decommissioning- estimated at AUD\$18 billion over the next 50 years (Wood Mackenzie 2016).

Our remoteness provides unique challenges to decommissioning and the opportunity to lead the region in decommissioning expertise.

## Opportunity

DOI-CRC will deliver information, tools, innovations and business change processes enabling:

- maximum environmental and fisheries benefits
- community trust and support for optimal decommissioning strategies
- lower cost and risk profile for decommissioning activities
- streamlined regulatory processes
- financial proceeds of commercialised innovations

## Decommissioning Offshore Infrastructure Cooperative Research Centre

DOI-CRC will deliver innovative and transformative offshore decommissioning solutions to position Australia as a regional and global leader, reduce Australia’s liability for offshore decommissioning and develop exportable capability.



TECHNOLOGY • TOOLS • TRAINING

COST & RISK ←

→ CAPABILITY

### Benefits to Operators

- Reduce cost of decommissioning
- Reduce risks of decommissioning
- Clear and transparent processes and regulatory environment
- Access to innovation
- Improve capability

### Benefits to SMEs

- Develop new knowledge and skills
- Engage with operators, regulators, the community and researchers
- Create jobs
- Increase profits
- Facilitate business

### Benefits to Government & Australia

- Clear policy and regulatory environment
- Improve nation’s expertise, growing jobs, reducing \$\$ sent overseas
- Encouraging international investment
- Improved tax system

### Benefits to Public

- Diversity of employment opportunities
- Enhanced marine environment
- Education and training opportunities
- Flow on benefits from improvements to tax and legal system

## Priorities of DOI-CRC

Current policy emphasises removal of offshore infrastructure at the end of its field life, yet complete removal poses significant costs to the operator and taxpayer, has environmental risk, and involves the potential loss of the ecological value of structures as artificial reefs.

DOI-CRC will develop innovative and transformative decommissioning solutions that:



### Minimise

- Environmental damage
- Risk to people and animals
- Financial costs

### Maximise

- Environmental benefits & fisheries sustainability
- The development of new specialist industries
- Societal benefit and support

## Research Programmes

DOI-CRC will maximise environmental benefits and sustainability, develop new technological innovations and decision tools and seek societal benefit and support through five multidisciplinary Research Programmes:

### 1 ENABLING ALTERNATIVES

Provide the scientific evidence to determine the most environmentally sound decommissioning strategy considering impacts to marine ecosystems and fisheries.

- The value of in situ infrastructure to marine ecosystems & fisheries
- Invasive pests: colonisation, movement, detection and eradication
- Impacts of contaminants and materials degradation on marine ecosystems
- Existing Australian infrastructure and decommissioning knowledge and capabilities
- Long-term stability of infrastructure left in situ

### 2 MINIMISING RISK AND COST

The creation of innovative technologies, tools and techniques to transform decommissioning approaches and hence revolutionise the associated Australian supply chain.

- New technologies for regional application (levering off international research/capability and applicability to Australia)
- Innovation in contamination and material degradation monitoring, decontamination, waste management and disposal of offshore structures
- Innovations in stability enhancement for infrastructure left in situ and in artificial reef modules for augmenting offshore oil and gas infrastructure decommissioned in situ

### 3 MAXIMISING BENEFITS

Generate valuable new knowledge on the economic costs and benefits of decommissioning and related policies whilst also enabling the development of public acceptance and a shared licence to operate.

- Economic benefits of in situ decommissioning and rigs to reef
- Public acceptance
- Social licence to operate

### 4 STREAMLINING PROCESSES

Will focus on science and evidence based law and policy frameworks to protect the marine environment and provide certainty for industry, without over-regulation. This programme will also use decision science and adopt regional approaches to enable efficient data gathering to inform decommissioning approaches.

- Law and governance associated with decommissioning
- Decision science, efficiency identification and regional approaches

### 5 EDUCATION AND TRAINING

Deliver education and training through outreach programmes and citizen science dissemination, technical training for technology and tools, industry placements and postgraduate training including higher degree by research. Training will be developed in response to industry partners' identified needs.



## How to partner

Cash contributions to the 10-year DOI-CRC are divided by tiers as follows:

Tier 1 ≥\$150k pa	Major Oil and Gas Operators and University/Research partners (Strategic Project Committee)
Tier 2 \$50k to <\$150k pa	e.g. Mid-Tier Oil and Gas Operators, additional University/Research partners, consultancies, contractors and SMEs
Tier 3 \$10k to <\$50k pa	e.g. SMEs, consultancies, Government, contractors

## Why partner with the DOI-CRC?

By participating in the DOI-CRC you will be able to:

- Ensure the needs of your industry are represented and prioritised for research
- Use outputs and findings from research to advance your organisation's own capability
- Have access to a pool of leading academics focusing on the major challenges for industry
- Have access to a network of the industry's leading organisations, including private and government entities
- Obtain significant leverage on your contribution: on average more than \$150 million worth of resources are pooled in a fully-funded CRC
- Be at the forefront of developments in the sector
- Enhance credibility with customers and be recognised as an organisation that supports and delivers significant benefit to Australia
- Provide input into the skills and training required for the next generation workforce in your industry
- Have access to postgraduate and PhD students to support your organisation

## Confirmed Tier 1 Participants

Woodside Energy, Chevron Australia, BHP Billiton, Shell Australia, Quadrant Energy, ExxonMobil Australia, University of Western Australia, Curtin University, Deakin University, University of Tasmania, University of New South Wales, CSIRO, Australian Institute of Marine Science.

Please contact us to register your interest in being involved in the DOI-CRC.

### BID CEO

#### Kym Bills

Interim Chief Executive Officer

**E:** kym.bills@waera.com.au **Ph:** +61 8 6436 8782

**M:** +61 419 241 496

### BID LEADER

#### Dr Dianne McLean

Marine Ecology Group – Fisheries Research, UWA Oceans

Institute, The University of Western Australia

**E:** dianne.mclean@uwa.edu.au **M:** +61 402 842 601

### INDUSTRY REPRESENTATIVE

#### Andrew Taylor

APPEA

**E:** ataylor@appea.com.au **Ph:** +61 8 9426 7208

**M:** +61 400 117 991

### UWA CONTACT

#### Professor Erika Techera

Director, UWA Oceans Institute.

Professor of Law, The University of Western Australia

**E:** erika.techera@uwa.edu.au **Ph:** +61 8 6488 7263

**M:** + 61 416 224 644

