

# Decommissioning

The Australian Institute of Marine Science delivers the environmental knowledge and innovation required to drive sound decision-making for sustainable decommissioning of offshore oil and gas infrastructure.

AIMS works with industry undertaking innovative research to understand the role and value of oil and gas structures in marine ecosystems. Our comprehensive decommissioning research is enabled by wide-ranging expertise, industrial-scale infrastructure, innovative technology and extensive national and international collaboration networks.



## Biodiversity, ecosystem and oceanographic monitoring

AIMS undertake assessments of marine biodiversity and fisheries interactions with subsea oil and gas infrastructure. We can identify natural influences versus industry impacts on ecosystems and forecast ecosystem responses to decommissioning options.

We use remote underwater stereo-video survey technologies; environmental DNA monitoring; automated monitoring equipment including autonomous aerial, underwater and surface vehicles; remote-sensing and wireless sensor networks; weather stations and oceanographic moorings.



## Ecotoxicology and environmental chemistry

Oils and condensates, oil dispersants, produced water, industrial discharges, chlorinated cooling water, insecticides and herbicides, metals and sediments from dredging.



## Socio-environmental and economic impacts

Sunscreens and antifouling paint formulations, corrosion inhibitors and production chemicals from gas and condensate extraction, pesticides pharmaceuticals and personal care products.



## Advanced and automated imagery analysis

AIMS use advanced and purpose-built photogrammetry techniques to analyse underwater imagery (including historical ROV imagery) for accurate assessments of marine biodiversity. This includes automated analysis of benthos and fish from video.



## Decision support tools and applications

AIMS combines data, maps, visualisations, models and business processes into applications, dashboards and tools for decision-makers. This includes decision science and the identification of regional approaches to enable efficient data gathering to inform decommissioning options.



Biodiversity on infrastructure



Innovative monitoring



Advanced image analysis



Ecotoxicology



Industry partnerships



**Australian Government**



**AUSTRALIAN INSTITUTE  
OF MARINE SCIENCE**

AIMS: Australia's tropical marine research agency.

## **PARTNER WITH US**

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