



# Protecting Australia's aquatic biodiversity & freshwater ecosystems.

**WHETHER IT'S THE BIOLOGICAL, PHYSICAL, OR CHEMICAL ASPECTS OF FRESHWATER ECOSYSTEMS, WE EMPLOY SAMPLING PLANS AND ANALYSIS STRATEGIES THAT ADHERE TO THE MOST STRINGENT GLOBAL REGULATORY STANDARDS.**

Our Aquatic Ecology team has extensive experience in undertaking freshwater aquatic field surveys, environmental impact assessment, and compliance monitoring within Australia. We have successfully delivered numerous surveys within river systems, and wetlands across the country.

We have strong, collaborative relationships with government departments, academic and research institutes, and the private sector, developing robust partnerships which has helped facilitate the delivery of high-quality outcomes to our clients.

We house some of the most advanced facilities in Western Australia with both a dedicated microscope laboratory and spacious trials laboratory. We also offer imaging software and are proficient in the analysis and interpretation of scientific data.

Our strategies and deliverables are tailored to the needs of our clients, grounded by comprehensive insight in the aquatic ecology field.

**FROM AI-DRIVEN HABITAT MAPPING, TO UNMANNED AERIAL & UNDERWATER VEHICLES, OUR AQUATIC ECOLOGY TEAM USE THE MOST ADVANCED TECHNOLOGIES TO EFFECTIVELY PROVIDE SOLUTIONS WHILST SAFEGUARDING THE INTEGRITY OF FRESHWATER ENVIRONMENTS.**







## Our Services

Our team delivers the following services to assess, monitor and mitigate impacts to our freshwater ecosystems.

### FRESHWATER ECOSYSTEM SURVEYS, MONITORING & ENVIRONMENTAL IMPACT ASSESSMENTS

- Microinvertebrate, macroinvertebrate and hyporheic fauna surveys
- Fish and other aquatic vertebrate fauna surveys
- Waterbird surveys
- Invasive aquatic species monitoring, management and control
- Aquatic fauna population assessment using traditional quantitative methods

- Aquatic flora (microalgae, macroalgae and macrophytes) surveys
- Aquatic and riparian habitat mapping using remote sensing
- Aquatic invertebrate and aquatic flora rewetting trials in specialist laboratory facility
- Water and sediment quality monitoring
- Comprehensive aquatic biota (fauna and flora) monitoring programs, particularly compliance monitoring
- Per- and polyfluoroalkyl substance (PFAS) sampling and analysis
- Ecotoxicological assessments and setting of trigger values for abiotic and biotic factors

- Freshwater habitat offsetting including planning, design, implementation, and monitoring of artificial habitats
- Hydrodynamic, water, particle transport, ecological and biogeochemical modelling

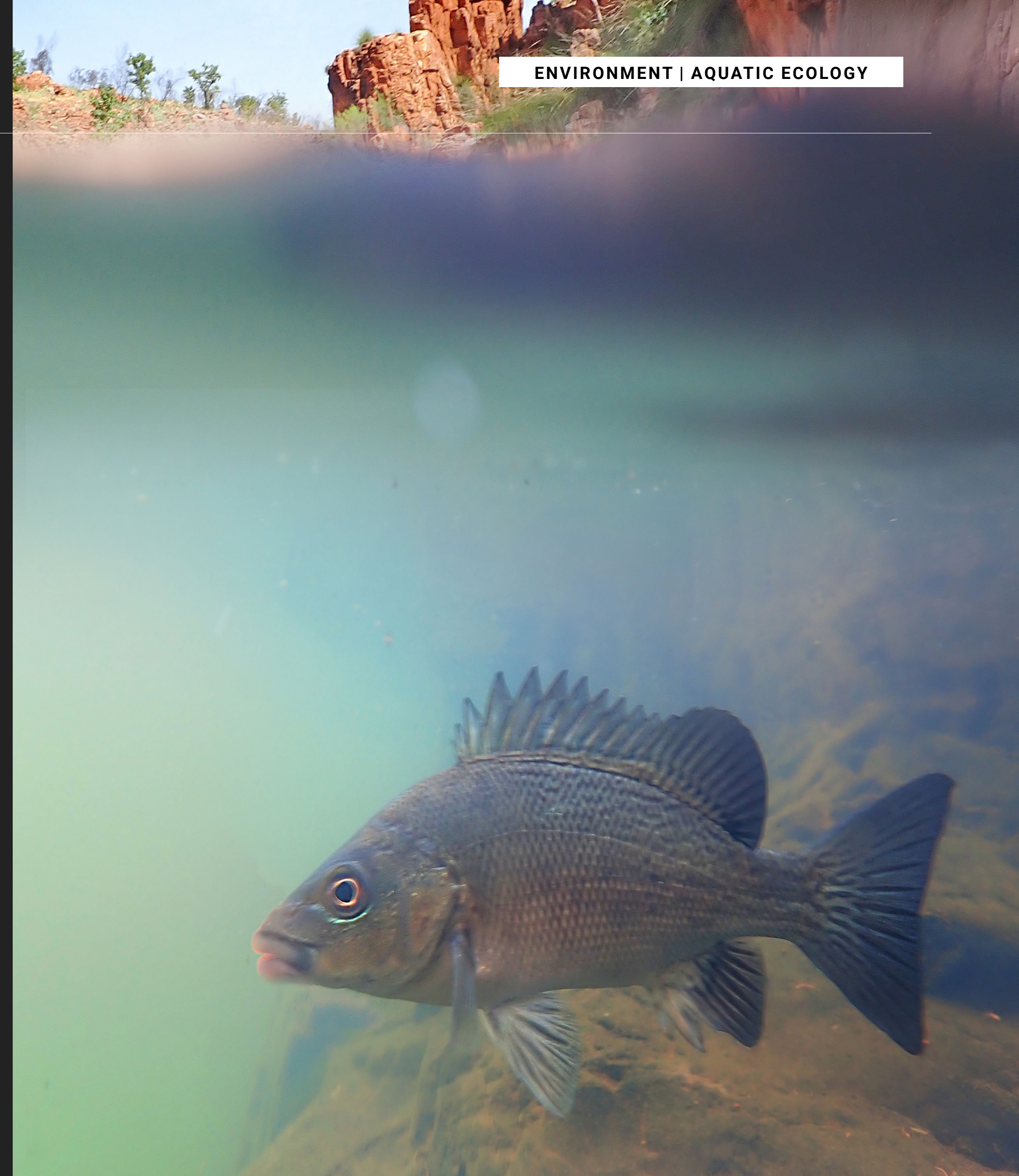
### TAXONOMY

- In-house specialist identification of aquatic flora, aquatic invertebrates, and riparian flora in our purpose built herbarium facility

### COMBATING CLIMATE CHANGE ACROSS AUSTRALIA

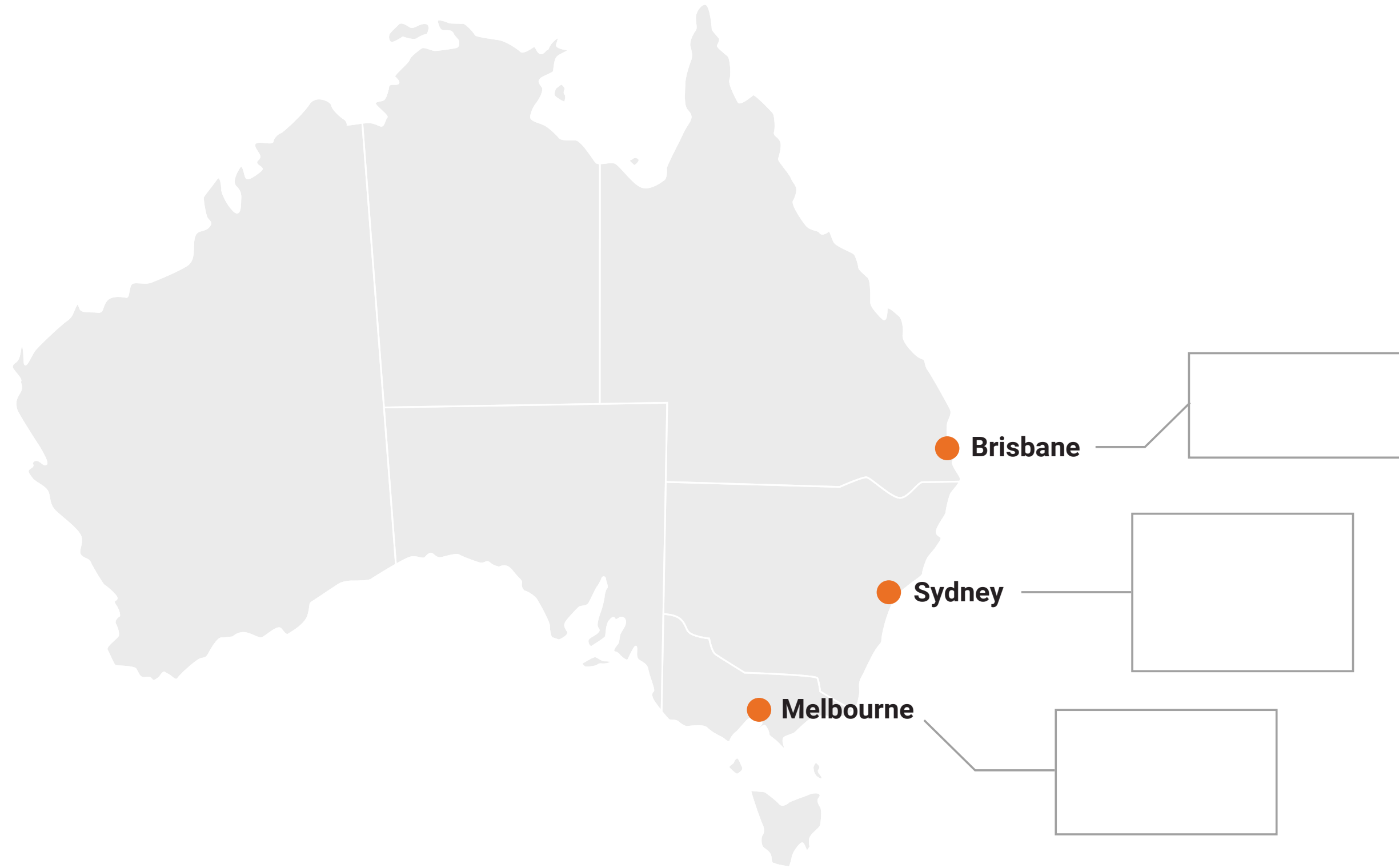
What can we do to combat climate change through the next century and beyond? Here is how we are putting our plans to work.

Find out more: [Climate Advocacy](#)





Click on the interactive map to view our local people and projects.



**#1**

**Ranked among top 1% in the world on sustainable performance**

*2023 Corporate Knights Global 100*

**#1**

**Ranked most sustainable corporation among its industry peers**

*2023 Corporate Knights Global 100*

**2,300 + National Team**

*Combined team of engineers, environmental scientists and industry specialists*

**Net Zero**

**Carbon neutral and then net zero**

*Our Operational Pledge*

**#8**

**Top 500 Design Firms**

*ENR May 2023*

**#7**

**Top 200 Environmental Firms**

*ENR July 2022*



Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always **design with community in mind.**

We care about the communities we serve—because they're our communities too. We're designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe.

**CONNECT WITH US**

