



**AUS4INNOVATION**

# **Vietnam Academy of Science and Technology**

Aus4Innovation is supporting innovative biological solutions to oil contamination in agriculture and aquaculture

**Australian  
Aid** 



**CSIRO**  
Australia's National  
Science Agency



# BIO-REMEDIATION FOR WATER AND SOIL POLLUTION

Water pollution impacts agriculture and aquaculture enterprises, human well-being and livelihoods, and environmental health and resilience.

Aquaculture in coastal areas of Vietnam is particularly susceptible to water pollution, impacting both quality and quantity of shrimp and fish.

Vietnam Academy of Science and Technology researchers have developed an innovative and environmentally friendly solution to oil pollution in both water and soil.

Biochar produced from crop by-products (such as rice husks) is used to create a film to support communities of microorganisms.

The biochar absorbs oil and other contaminants and the embedded microorganisms consume the oil as a food source.

- Environmentally friendly solution for oil decontamination
- Lower cost reduces capital investment risk
- Technology transferable to multiple industries and sectors, including aquaculture, agriculture, oil and gas industry