



**AUS4INNOVATION**

# **Vietnam Academy of Science and Technology**

Aus4Innovation is supporting  
nano-fertilisers for clean, green farming

**Australian  
Aid** 



**CSIRO**  
Australia's National  
Science Agency



# NANO-PRODUCTS FOR CLEAN, GREEN FARMING

Population growth, less agricultural land and changing climate increase pressure on farmers to produce more with less.

A conventional approach to raising yields is by increased application of synthetic fertiliser – but this is a growing problem for ecosystem health, long-term productivity and food safety.

Vietnam Academy of Science and Technology have developed novel nano products using biodegradable material from agricultural waste.

When used in fertiliser production, they can create a more climate-resilient, environmentally friendly alternative.

Plant nutrients are integrated into the nanostructures, allowing slow release throughout the growing season.

The natural coating material also retains water, for continued release to plants and in future could also carry products to combat plant pests and diseases.

- Reduced soil and water pollution from synthetic chemicals
- Higher yields and profit margins for farmers
- Efficient, climate-hardy production