

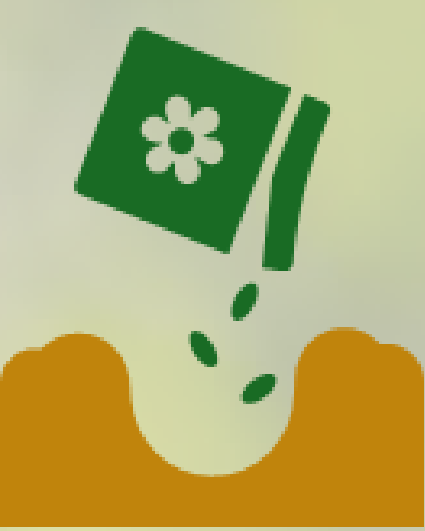
# ALGAE BIOFERTILIZER: A Climate-Smart Solution for Healthy Soil & Improved Crop Yields

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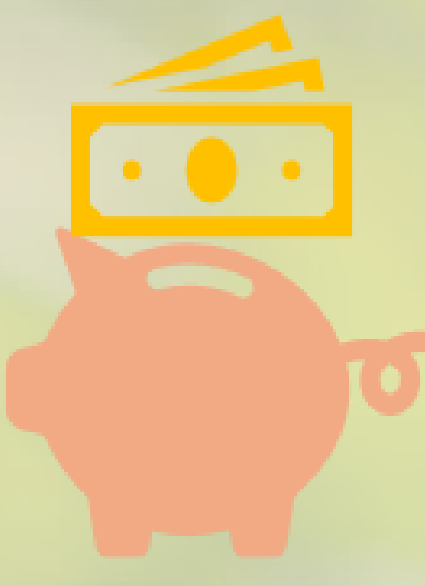
## Background

- Soil health in Australia is declining – lower yields, poorer soil, higher costs and vulnerable to climate change.
- Algae are nature’s soil helpers – they add life, improve fertility, and store carbon.



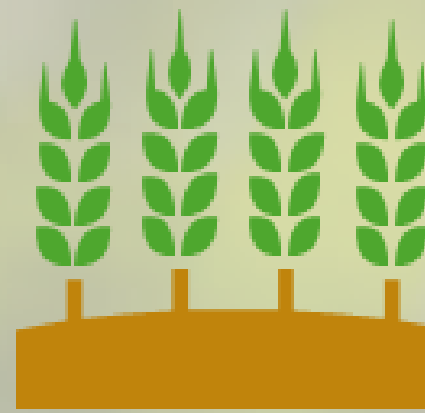
### Healthy Soils

Increases soil microbial health, enzyme, and nutrient availability, soil aggregation



### Saves money\*

\*Best case scenario (with nutrients sourced from waste)



### Bigger Harvest

Increases crop growth and yield



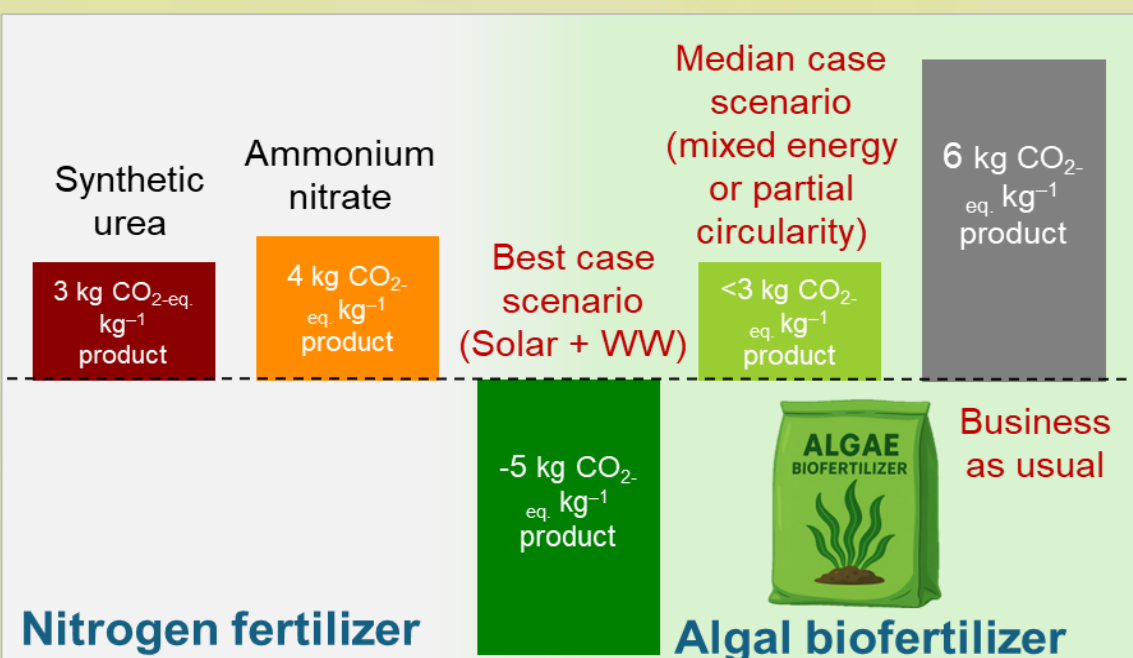
### Climate friendly

Help to store carbon and potential reduce greenhouse gas emissions

## Benefits of algae biofertilizer

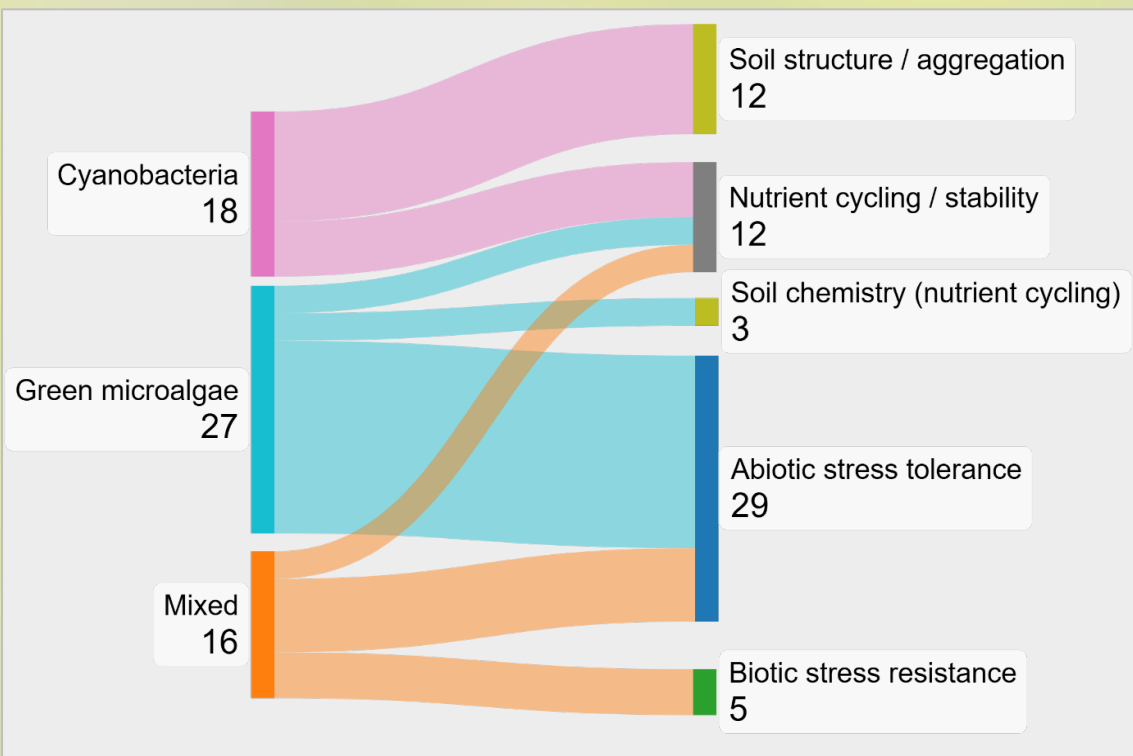
### Mitigation

Reduces use of inorganic fertilizer



### Resilience

Improves resilience to soil structure, carbon, and nutrient availability



### Productivity

Boosts crop growth and yield

Wheatgrass	120	
Sunflower	60	
Maize	50	
C. Cabbage	30	
Spinach	60	
Berry	20	
Rice	20	

## Project Plan

Phase 1  
Laboratory



Selection of consortia & initial scale-up

Phase 2  
Green house



Production of biomass & pot experiments

Phase 3  
Field trial



Field trials to test crop productivity & soil health

Expected outcome



Identify effectiveness of algae consortia for the **sustainable** improvement of **crop productivity** & **soil health** under Australian climatic conditions