

# Regenerative Farming

Keeping Carbon on the Farm Project

NUA Conference, Newcastle November 2018

# Keeping Carbon the Farm

- ▶ A pilot project providing a suite of activities that dairy farmers and other primary producers undertake to reduce their greenhouse gas emissions and better prepare for climate change
- ▶ These activities include revegetation, carbon-sequestering soil amelioration trials and energy reduction strategies
- ▶ Located on an exemplar farm in South West Victoria, Australia



## RESEARCH & GHG ACCOUNTING



## BIOCHAR AND COMPOST FIELD TRIALS



## FEED SUPPLEMENT TRIALS



## WHOLE-FARM ENERGY AUDIT

Reduced CO<sub>2</sub>e  
Increased soil health  
Increased animal health  
Improved farmer health  
and wellbeing



## REVEGETATION

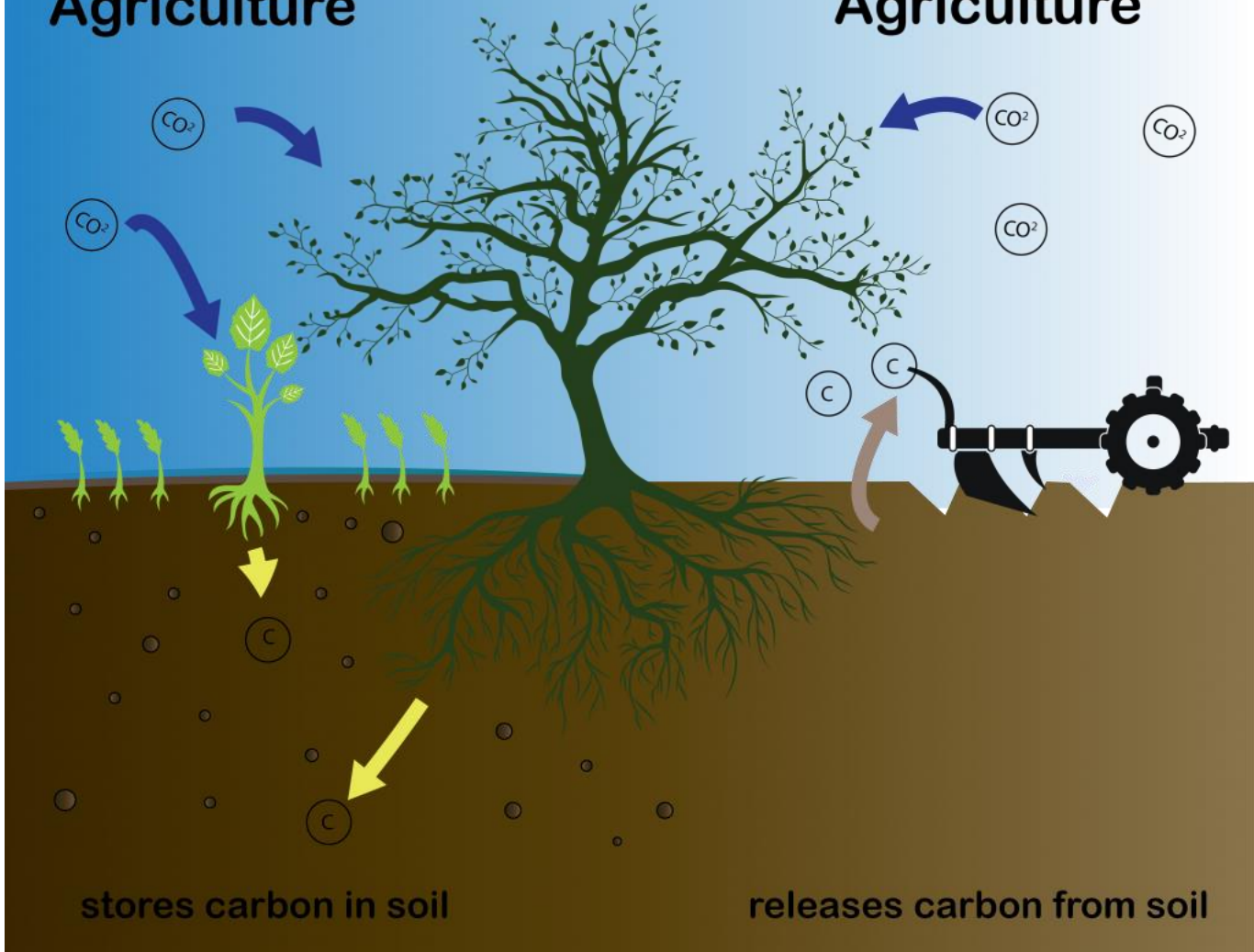
# A regenerative agriculture project

- ▶ *Regenerative agriculture is an approach to food and farming systems that rejects pesticides, artificial fertilisers and claims to regenerate topsoil, increase biodiversity, improve water cycles, enhance ecosystem services, increase resilience to climate fluctuation and strengthen the health and vitality of farming communities.*



# Regenerative Agriculture

# Conventional Agriculture



stores carbon in soil

releases carbon from soil

# Project partners

- ▶ Heytesbury District Landcare Network (lead)
- ▶ Deakin University
- ▶ Triple R Biochar
- ▶ Power4farmers Project
- ▶ Corangamite Shire
- ▶ Corangamite Catchment Management Authority
- ▶ Camperdown Compost
- ▶ Sam Doolan, Dairy Farmer, Ecklin South (exemplar farm)
  
- ▶ Funded by DELWP under the Virtual Centre for Climate Change Innovation (VCCCI) program

# Links with SDGs

## ► Keeping Carbon on the Farm

- A pilot project providing a suite of activities that dairy farmers and other primary producers undertake to reduce their greenhouse gas emissions and better prepare for climate change. These activities include re-vegetation, carbon-sequestering soil amelioration trials and energy reduction strategies. The project will be undertaken on an exemplar farm in the Heytesbury District in South West Victoria. This area includes the townships of Camperdown, Cobden, Timboon, Simpson, Peterborough, Port Campbell and Princetown.

## ► Sustainable Development Goal 15 (SDG15)

- 71. We commit ourselves to strengthening the sustainable management of resources, including land, water (oceans, seas and fresh water), energy, materials, forests and food, with particular attention to the environmentally sound management and minimization of all waste, hazardous chemicals, including air and short-lived climate pollutants, greenhouse gases and noise, and in a way that considers urban-rural linkages, functional supply and value chains vis-à-vis environmental impact and sustainability and that strives to transition to a circular economy while facilitating ecosystem conservation, regeneration, restoration and resilience in the face of new and emerging challenges.



# Recommended reading

