

RANGELANDS CARBON

PARTNERS



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IN SHORT

This Food Agility CRC project is the largest and most comprehensive soil carbon sampling project ever conducted in Australian rangelands. It has transformed thinking around the potential of carbon sequestration and strengthened the reliability of carbon accounting, while supporting evidence-based land management decisions.

"AACo takes a holistic view of sustainability, that aims to balance the needs of people, our cattle and the ecosystems in our care. This extensive project, the outcomes and insights around property management, and the tools the project delivered will better position us to achieve those outcomes."

Naomi Wilson, AACo

THE CHALLENGE

Livestock producers and land managers are increasingly focused on managing landscape carbon, not just to boost profitability and productivity, but also to improve sustainability, build resilience, meet carbon targets and respond to market expectations. Measuring soil and vegetation carbon across vast rangelands is both expensive and time consuming, and even when the data is available, reliably estimating the carbon sequestration potential and the best management strategies across complex rangelands landscapes can be challenging.

OUR APPROACH

This project delivered practical outputs that strengthen decision-making and monitoring capabilities. A high-resolution Soil Organic Carbon (SOC) baseline map was developed alongside an advanced digital Integrated Model, providing a robust foundation for modelling and scenario analysis. These tools enable more accurate assessments of carbon dynamics across diverse rangeland environments. In addition, a natural capital risk platform was created to systematically evaluate nature-related impacts and dependencies associated with SOC.