



Title	Management options for increasing soil carbon under grasslands
Countries Involved	New Zealand (Landcare Research), France, United Kingdom
Objective	To measure and model the key factors regulating soil carbon turnover in grazed pastures, in order to identify and test management options for increasing carbon storage and stability in pasture soils, and develop and validate a process-based model of carbon inputs and losses for use in verifying longer-term implications for soil carbon storage.

Title	Farm scale assessment of SOC from disaggregated national/regional scale models
Countries Involved	New Zealand (Landcare Research), Australia
Objective	To develop a method to disaggregate nationally calibrated carbon models for local (farm-scale) management; and then test the quality of baseline estimates of soil organic carbon (SOC) derived from downscaling, via validation, using the baseline information as guiding information to estimate current levels of SOC storage at the farm-scale.

Title	An innovative solution for accurate and affordable estimates of SOC
Countries Involved	New Zealand (Landcare Research), Australia
Objective	To develop innovative solutions for accurate and affordable estimates of soil carbon. A field-deployable system that can quantify spatial and temporal changes in organic carbon, carbon fractions and bulk density – and SOC stores (SOCS) – in the top 1m of soil will be developed.