



Farming, Food and Health. **First**

Te Ahuwhenua, Te Kai me te Whai Ora. Tuatahi



Landcare Research
Manaaki Whenua



MASSEY UNIVERSITY
TE KUNENGA KI PŪREHUROA

Plant & Food
RESEARCH

RANGAHAU AHUMĀRA KAI



SCION

Next generation biomaterials

Enrolments:

Postgraduate Papers:

<http://enrol.massey.ac.nz>

(N.B: subject to University enrolment deadlines)

CPD Courses:

<http://pace.massey.ac.nz>

NEW ZEALAND

LIFECYCLE 
MANAGEMENT CENTRE

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<http://lcm.org.nz>

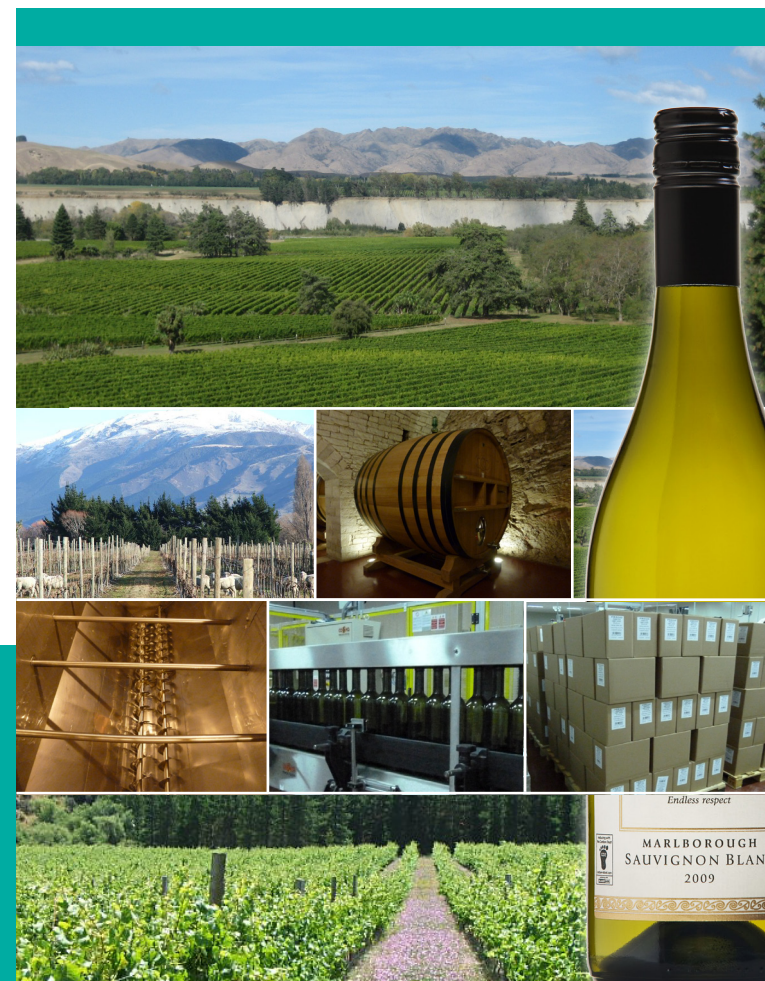
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Palmerston North 4442
NEW ZEALAND

NEW ZEALAND

LIFECYCLE 
MANAGEMENT CENTRE

REALISING SUSTAINABLE VALUE CHAINS

Qualifications and Training in
Life Cycle Assessment and Management



Life Cycle Assessment and Management

Life Cycle Assessment (LCA) is an analytical tool for the systematic and quantitative evaluation of the environmental impacts of a product or service system through all stages of its life.

Life Cycle Management (LCM) is the management of the life cycle of products or services, using analytical tools and methodologies. It encompasses supply chains from initial extraction of raw materials through to end-of-life management.

Benefits

LCM is a pragmatic system to improve the sustainable production and consumption of products and services. It enables organisations to identify areas along the supply chain for improvement and provides a product-oriented management framework for driving continuous improvement. Through use of LCM, stakeholders along the value chain can benefit from more efficient systems, reduced use of resources, innovations in product and service delivery, and demonstration of environmental commitment.

Already, major international retailers are making changes and asking for ingredients and products to be delivered in more sustainable ways. Act now to realise potential advantages in the marketplace.

Postgraduate Study

Massey University will give you the skills to make a difference. We offer two 15-credit papers in Life Cycle Assessment and Life Cycle Management at postgraduate level. Papers are delivered in distance-learning mode to enable flexibility for people in the workforce so that they can study in a style that fits in with other demands in their lives.

Students also attend a compulsory short course (three days) as part of each paper, usually around mid-semester.

The papers contribute towards postgraduate qualifications, including the Postgraduate Diplomas and Master's degrees in AgriScience and Environmental Management. Students can also study for a Master of AgriCommerce, Resource and Environmental Planning, or Technology with a specialism in LCM.

Paper 238.700

Life Cycle Assessment and Footprinting Principles

This paper introduces life cycle thinking and related concepts in environmental management, and LCA methodology according to the ISO 14040 series of LCA standards. Participants undertake an LCA case study using an LCA software program, and evaluate the role of LCA and related footprinting studies in contributing to development of more sustainable value chains.

Paper 238.711

Advanced Topics In Life Cycle Assessment

Topics to be covered include: consequential and attributional LCA to support decision-making, relevance and implications of allocation and system expansion, inventory data quality, impact assessment methods, and standardisation of approaches.

Continuing Professional Development (CPD)

For those who want to develop an understanding about LCA and its application in the workplace - but who do not want to commit to a full 15-credit paper - two separate CPD courses are available. In these courses, the focus is on pragmatic use of LCA. By the end of the two CPD courses, participants will be able to effectively commission and manage LCA and carbon footprinting projects that will benefit their organisations.

CPD Course: Introduction to LCA

Upgrade your skills by learning the principles and methodology for LCA, and how it can support decision-making in the workplace.

CPD Course: Undertaking an LCA study

Undertake your own LCA study on a defined product system using an internationally recognised LCA software program.

New Zealand Life Cycle Management Centre

The New Zealand Life Cycle Management (NZLCM) Centre is a partnership between Massey University, AgResearch, Landcare Research, Plant & Food Research and Scion. Its mission is to build capability for Life Cycle Management including Life Cycle Assessment in New Zealand. The Centre partners work together to provide education, training and research in the assessment and management of product and service life cycles.