National SCIENCE Challenges

OUR LAND AND WATER

OUR LAND AND WATER SYMPOSIUM

Kia Mauri Ora te Whenua

INCENTIVES FOR CHANGE

The Matrix of Drivers

Tim Driver, Agribusiness and Economics Research Unit (AERU), Lincoln University

FUTURE LANDSCAPES

In the future landscapes contain mosaics of land use that are more resilient, healthy and prosperous than today.

Strategic Area 1

Be able to see what diversity is possible and match land use to what it is suitable for.

Strategic Area 2

Understand and model the management of land and water quality.

Strategic Area 3

Provide the novel production systems that use healthy land and water to generate high-value products.

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New Zealand's primary producers are well-rewarded for producing high-value products in sustainable ways.

Strategic Area 4

Capture and share with the producers more of the value consumers associate with our products.

Strategic Area 5

Increase and share value based on mechanisms that rewards sustainable land use and high-value products.

Strategic Area 6

Enable communities to identify and adopt sustainable land use practices.

CAPACITY FOR TRANSITION

We understand what it will take, and have the tools to help us, transition to resilient, healthy and prosperous futures.

Strategic Area 7

Increase our social capital so that we can have well informed debate about alternative futures.

Strategic Area 8

Act as kaitiaki, being responsible for our actions within enterprises, in a catchment and beyond.

Strategic Area 9

Manage pressures and remove the barriers to a transition.

What is the problem?

Clear knowledge of how international and domestic political, environmental, social, economic and consumer/market trends affect land use change and/or practice.

In addition, New Zealand producers could be rewarded more for engaging in land use practice/change that ensures greater environmental, social and cultural sustainability of their operations, thereby achieving premium product prices in overseas markets.

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What is the solution?

Greater knowledge of international and domestic trends and where these are likely to cross-over for greatest effect.

Specifically, a meta-analysis that assesses, cross-examines and rates international and domestic drivers of land use change and practice to prioritize areas for research focus.

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International and domestic drivers likely to impact on land use practice and/or change

Agricultural and Trade Policy	Air Quality	Animal Health and Welfare	Authenticity and Traceability
Biodiversity	Biosecurity	Brand	Carbon Emissions Trading Schemes
Chemical Residues	Climate Change	Country-of-Origin	Cultural Values
Demographics	Digital Communication Systems	Environmental Condition	Extreme Weather Events
Family and Community	Food Safety	Functional Food	GHG Emissions
GM and Nanotechnology	Innovative Products	Local Food/Food Miles	Organic Production
Pasture-Based Production	Precision Agriculture	Product Quality	Religion
Social Responsibility and Fair Trade	Soil Quality	Sustainable Supply	Waste and Recycling
	Water Footprinting and Use	Water Quality	

*2017 Updated Drivers

Who is using the research to make a difference?

This small project was enacted to prioritize areas of focus research carried out as part of the Our Land and Water National Science Challenge.

Specifically:

- Researchers
- New Zealand primary sector, including policy and marketing personnel

How is it building towards the Our Land and Water goal?

- Provides prioritization to strategically align Our Land and Water National Science challenge research focus

- Outlines legislative, regulatory and market forces likely to impact on domestic land use change and/or practice

- Details international drivers to align market trends with incentives for more sustainable land use change and/or practice

Links

Research Reports

https://bit.ly/331RW7D

Evidence Base

https://bit.ly/2KchAhq

Driver Summaries

https://bit.ly/2YAukng

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Collaborators

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