

# OUR LAND AND WATER SYMPOSIUM

Kia Mauri Ora te Whenua



FUTURE LANDSCAPES

## Next Generation Systems

Alan Renwick



## 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.*



## INCENTIVES FOR CHANGE

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?



Novel, knowledge-based, alternative land use systems, referred to hereafter as Next Generation Systems (NGS) exist that could relieve environmental and social pressures, the challenge facing New Zealand is how to achieve a timely transition to these systems at any meaningful scale.

Need to recognise that any change in land use is inherently risky.  
NGS seeks to derisk and accelerate land use change

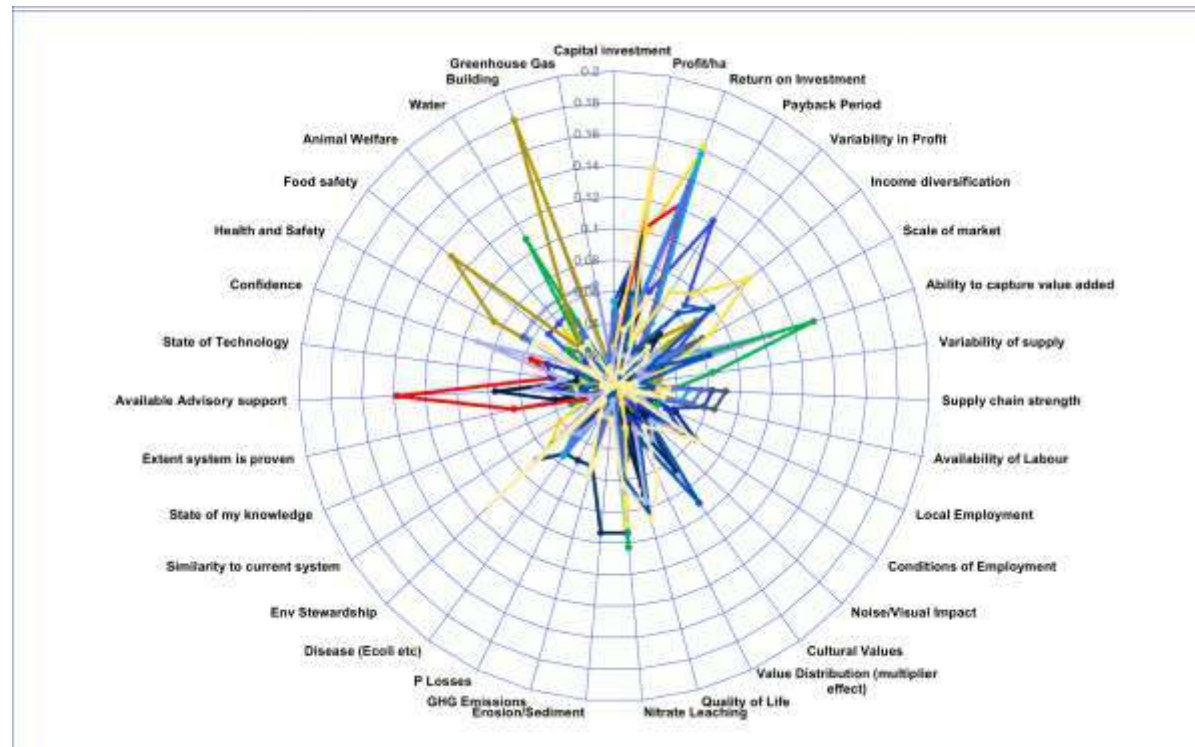


# What is the solution?

Land use transformation is context specific and often deeply personal

Improved understanding of how land managers are making decisions concerning land-use transition so they can be supported.

Our Multicriteria Decision Making (MCDM) Framework also provides a format for discussion with land managers



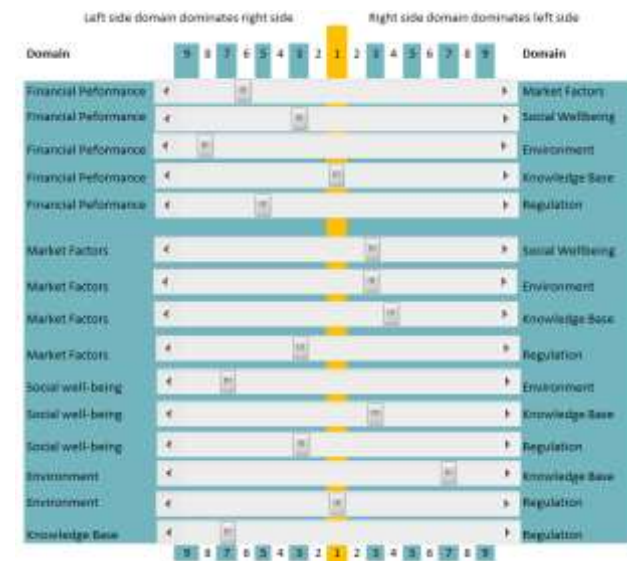
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# Who is using the research to make a difference?

So far has been used with over 20 land managers as part of the process of considering land use transitions

*'The multi criteria decision making framework undertaken by members of the ... Committee of Management (CoM) provided some great insights into how the CoM make decisions and what is perceived to be important to the CoM.'*



*'...If possible would you mind sharing the excel file so we can perform the process ourselves? I would very much like to do this with the other leaders in our business'*



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

The framework by supporting the process of adoption of NGS directly contributes to the objective of Our Land and Water 'to enhance the production and productivity of New Zealand's primary sector, while maintaining and improving the quality of the country's land and water for future generations'

In the process we are derisking and accelerating land use change



# Collaborators

## Some of our Collaborators



## NGĀI TAHU Farming



## Drumpeel Farms

## Team

Robyn Dynes  
Paul Johnstone  
Warren King  
Lania Holt  
Alan Renwick



Farmers who  
are part of  
Central Plains  
Water Scheme

## More Information

Some Further Background

[ourlandandwater.nz/future-landscapes/next-generation-systems/](http://ourlandandwater.nz/future-landscapes/next-generation-systems/)

Some Papers

[tinyurl.com/olwforest](http://tinyurl.com/olwforest)

[tinyurl.com/olwnsframework](http://tinyurl.com/olwnsframework)