

OUR LAND

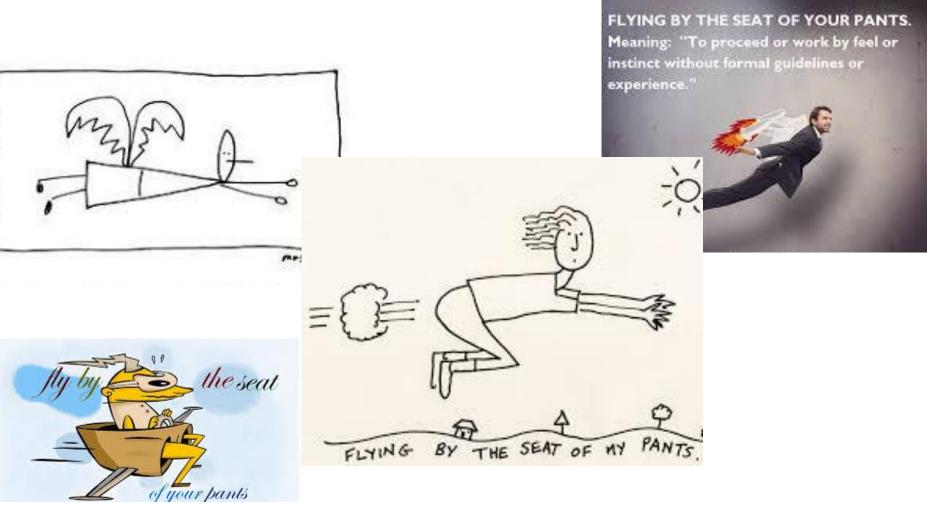
Toitū te Whenua, Toiora te Wai

Anak

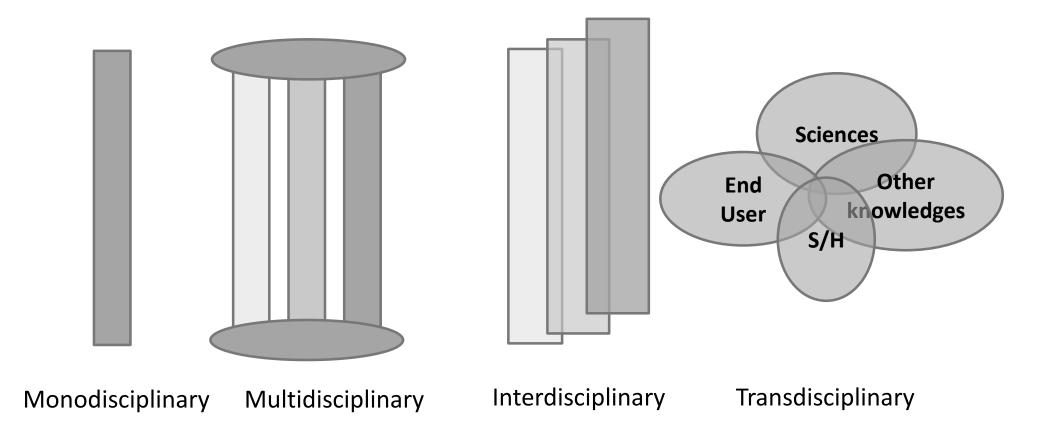
Can the Integration and Implementation Science framework support better research for land and water policy?

Melissa Robson-Williams, Manaaki Whenua, Bruce Small, AgResearch Roger Robson-Williams, Plant and Food Research

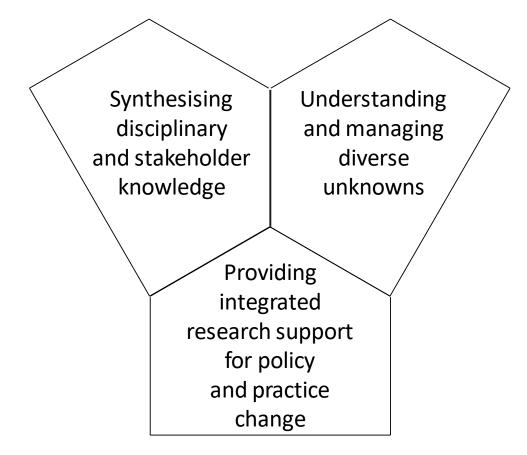
Conflict and status quo	Complex problems	Uncertainty
	n involvement in scien policy development	ce and
	Value judgements	
Diverse values	Legitimacy	Multiple knowledges



3 types of integrated research

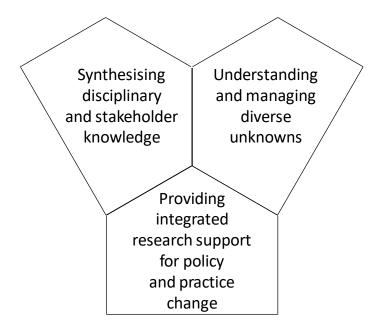


Integration and Implementation Science framework (Bammer, 2013)



Q1 For what and for whom? Q2 What is needed? Q3 How? Q4 Context? Q5 Outcomes?

Integration and Implementation Science framework



Q1. What was the synthesis of disciplinary and stakeholder knowledge, managing unknowns and providing integrated research support aiming to achieve and who is intended to benefit?

Q2. Which disciplinary and stakeholder knowledge, unknowns and target audiences were considered?

Q3. How was the disciplinary and stakeholder knowledge synthesised, unknowns understood and managed, research support provided, by whom, and when?

Q4. What circumstances influenced the synthesis of disciplinary and stakeholder, the management of unknowns and the provision of integrated research support knowledge?

Q5. How would you assess the methods used for synthesis of disciplinary and stakeholder knowledge, understanding and management of unknowns and provision of integrated research support?

Case studies

Seven case studies:

(Primary Innovation programme, Limit setting Selwyn-Waihora, Nutrient Management (Forages for Reduced Nitrate), Matrix of Good Management, Heifer rearing, Log segregation, Water use efficiency)



The more elements of the I2S framework that are considered, the more useful and usable the research will be considered by next users

Data collection and analysis

Team self

evaluation of

success of methods

and outcomes

Data collected on case study through I2S framework

Assessment of 'extent of fit' to I2S elements

To understand if using I2S elements and framework can make research more valuable to end users

Assessment of team self evaluation Interviews with next users on usefulness of research process and outputs

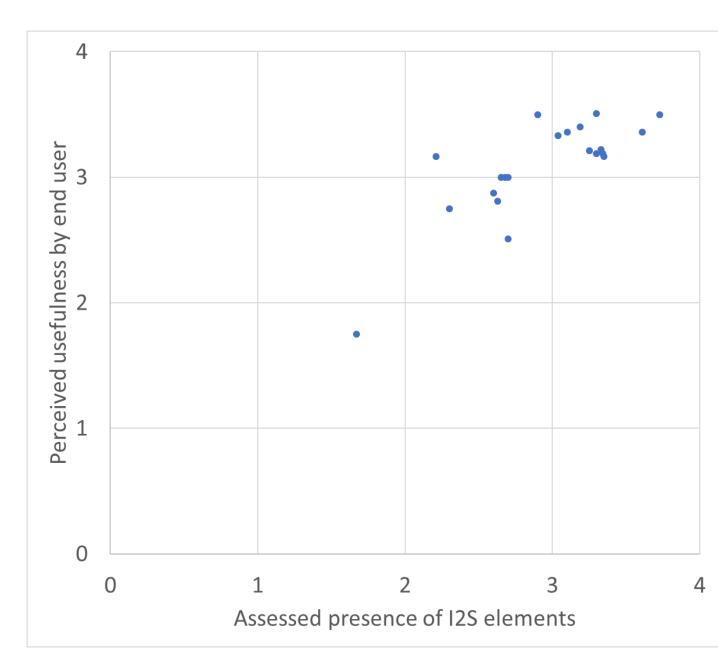
Assessment of usefulness to next users

Results

Strong correlation (0.79) between the presence of I2S elements in the case study and the perceived usefulness by next users.

Strong correlation across all domains Significant at .05

Results strongly suggest that using these I2S elements makes the research more useful and usable to a range of end users



Next steps

Further assessment of effectiveness of case studies*:

- Usable products
- Enhanced capacity
- Network effects
- Broad structural changes

Source: Wiek et al., 2014*

In a nutshell

The research for freshwater policy and practice change can be complex

The way we do integrated research makes a difference to how useful and usable it is to those that use it

The I2S framework is useful for guiding and supporting effective integrated research





OUR LAND AND WATER

Toitū te Whenua, Toiora te Wai

Thank you

Also thank you to OLW for supporting this research and other Collaboration Lab colleagues for their assistance