

MBIE as an Investor

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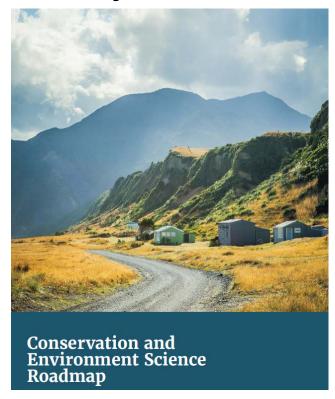
Contestable Investments

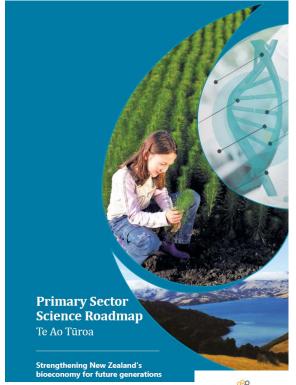
Wairakei 27 June 2017



MBIE as an Investor: Looking for Research Landscape

Examples of New Zealand Science Roadmaps





Transport Co Knowledge Hub

NEW ZEALAND TRANSPORT SECTOR

STRATEGIC CHALLENGES
AND RELATED ACTIONS MAP

June 2017













New Zealand Geothermal Research Roadmap

Draft Energy Research Strategy

Overview of the Energy Research Strategy Development

NewZealand Energy Strategy 2011–2021

(The Government's strategic direction for the energy sector)

Goal: To grow NZ's exports and the economy through secure, competitively priced, and environmental responsible energy

Priorities: energy resource development; environmental responsibility, efficientuse; energy security and affordability.



Draft NewZealand Energy Efficiency and Conservation Strategy 2017-2022

(The Government's programme of support for and intervention in the energy sector)

Goal: Support NZ to be an energy efficient, productive and low emissions economy.

Priorities: Renewable and efficient process heat; efficient and low emissions transport; innovative and efficient use of electricity.



NZ's Energy Sector, Users and their representatives

Sector: Energy resource extraction, conversion, and energy distribution.

Users: (in order of significance) Transport sector; Industrial; Residential, Commercial; and Primary sector. The energy sector is itself a major user of energy.

This research strategy focuses on research investments that would benefit the country, but are beyond business as usual for the sector and its uses.

Other Government Strategies

Strategic intent in other relevant areas including:

Business Grow th A genda: includes attracting investment, improving innovation, developing exports, and improving the productivity of resource based businesses while reducing their environmental impact.

Greenhouse Gas (GHG) Emissions: Reduce emissions 30% below 2005 by 2030; 5% below 1990 by 2020; 50% below 1990 by 2020; 50% below 1990 by 2020, conditional on a comprehensive global agreement.

Transport: an effective, efficient, safe, secure, accessible and resilient transport system that supports economic growth.



Energy Research Strategy Development

Stage 1 (this document)

Identify the key issues (opportunities and risks) that are arising in the energy sector that:

- Have a significant national impact.
- Are beyond the capacity of individual businesses or sector groups to address ("beyond business-as-usual").
- Require medium-term research investments
- (5+ years) with impacts well beyond this.
 Are relatively unique to New Zealand and not likely to be solved by overseas research (or New Zealand could add value to international efforts).

Stage 2 (to follow consultation on Stage 1)

To develop specific research programmes and priorities to address each of the <u>agreed_key</u> issues

Draft Geoheat Strategy



Research Roadmap

"to <u>map</u> research and innovation activity, investment, interacting networks and output may be helpful when making decisions about funding and developing capability"

Examples of topics that Research Roadmap include:

- Analysis of expenditure: "who funds what and where?"
- Government strategies, areas of opportunities
- Current research staff employed, services providing

Examples of topics that Research Roadmap include:

- Downstream: what are the results? Track record? Progress or productivity improvement, quality of research and identification of impacts.



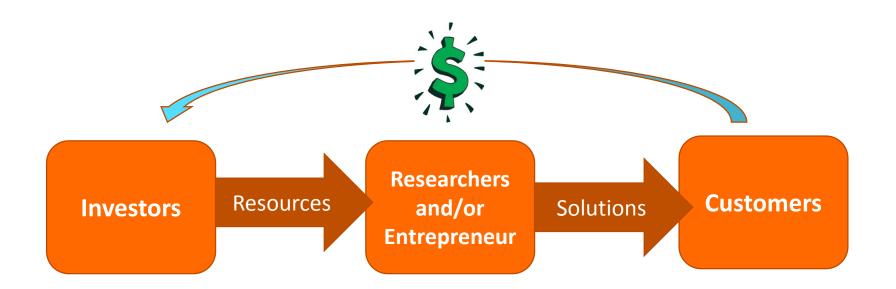
MBIE as an Investor: Looking for Impacts

Auckland 13 July 2016

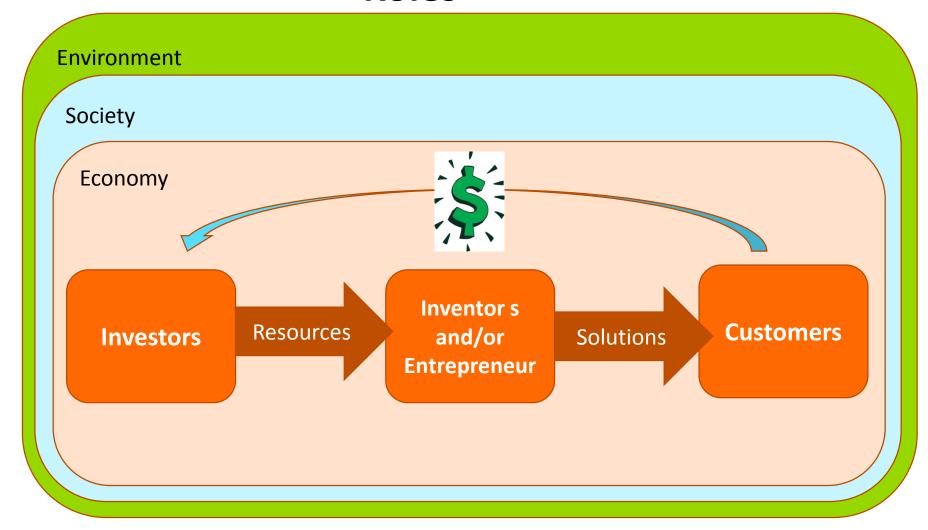
Impact - Investing vs Funding

"the direct and indirect influence of research or its effect on an individual, a community, or society as a whole, including benefits to our economic, social, human and natural capital"

Roles



Roles



Endeavour Fund (aka Contestable Research Fund)

- Smart Ideas
 - catalyse and rapidly test promising research
 - high potential for benefit for New Zealand
 - refresh and diversity in the science portfolio.
- Research Programmes
 - ambitious, excellent and well-defined research ideas
 - credible and high potential to positively transform our future

Assessing Impact

"If "Excellence" is about your "Research Hypothesis" then "Impact" is about your ...

"Market hypothesis"

- Who / Why who's problem is it
- How big is the problem
- What can you do to solve the problem and has some one already solved it?
- How do you get your solution to the buyer(s) pathway

Seeking your feedback: The Impact of Science



oMBIE is seeking feedback on this discussion paper examining the concept of impact to the science system.

Feedback is sought by 29September

Questions?