

1926 Department of Scientific and Industrial Research established (McGuinness Institute, 2012)

February 2012

Report 9

2058 Science Embraced

Government-funded Science under the Microscope

Table 3: Four Eras of Government-funded Science in New Zealand, 1865–2012 ed purpose, strategy and execution of government-funded science for Eras 1–4 is largely a summary of the findings contained within the Institute's Report 9a: A History of

Strategy				Purpose		Note: The st Governmen
Strategic Intent				Vision		t-funded Scient
Organised research capability had not been a priority in a new, developing nation but attitudes started to change as successive governments realised the importance of research and science importance of research are started to the s			A system was developed to respond to problems and commercial imperatives in the primary industries (such as agriculture) (SFI, 2009a: 14).	Early government-funded science focused on understanding and taking resources from a new land mass. ¹⁷	Era 1: 1865 – 1926 Mission:	Note: The stated purpose, straces, Government-funded Science 1865–2009 (SFI, 2009a) and Report 9b: A History of Core
Transforming DSIR from administrator to provider, with increased investment in scientific research and an emerging commercial imperative for science. ¹⁸				support scientific research through one support scientific research through one dominant institution: the Department of Scientific Industrial Research (DSIR) (SFI, 2009a: 20).	Era 2: 1926 – 1969 Mission: Overnment-funded science aimed to	9b: A History of Const
RS&T to 'grow an inclusive, innovative economy for the benefit of all'. (MoRST, 2000: 5)			Science was seen as a comment should enterprise. There was debate over the enterprise. There was debate should degree to which government should influence the shape of research (SFI, 2009a: 20–25).	Science and technology were linked to science and technology were linked to economic growth. Values:	Mission: Government-funded science aimed to	Era 3: 1989 – 2010
'Establishing a single entity that can act as the Government's lead agency on the science system and contribute to the oversight of New Zealand's innovation oversight of New Zealand's innovation system.' Further, one of the initiatives for 2011 was the 'development of a clear organisational strategy for MSI' (MSI, 2011a 16, 26).		Vision: 'High-performing science and innovation 'High-performing New Zealanders' systems improving New Zealanders' wealth and wellbeing' (MSI, 2011a: 6).	Mission: Government-funded science aims to create Government-funded science aims to create benefit for New Zealand' (MSI, 2011a: 6). Values: The MSI's Statement of Intent: 2011–2014 The MSI's Statement of Intent: 2011–2014 on actively shaping a culture that supports on actively shaping a culture that supports of MSI to be a high-performing agency' and that 'there will be a project defining the values for MSI and the integration of these values for MSI and the integration of these across the organisation. These will form the baseline of our expectations of behaviour and standards and will be rolled out across the organisation' (MSI, 2011a: 27).			Era 4: 2010 – 2012

to the economic and social growth of the colony (SFI, 2009a: 15).

3

2009a: 19).

18

17

The New Zealand Geological Survey was formed in a move to identify and control mineral assets such as gold and coal (Nathan, 2007). The Survey also took control of the Colonial Laboratory and Museum, which worked until 1892 to identify and describe New Zealand's natural assets (Galbreath, 1998). The primary function of the DSIR changed significantly during this period. In 1926, the Scier and Industrial Research Act 1926 stated that the functions of the DSIR were maintenance, administration and the provision of advice.

The Scientific and Industrial Research Act 1974 repealed the 1926 Act and stated that the principle in primary function of the DSIR was to 'initiate, plan and implement research calculated to promote the national interest of New Zealand' (SFI,

Drivers

Government-funded science focused

Era 1: 1865 - 1926

Era 2: 1926 - 1989

19

MoRST's 2007-2010 strategy (MoRST, 2007a) has been used as an example of government-fi

science's main priorities within this era

Government-funded science focused on: Providing greater clarity and coherence The 2007 MoRST strategy had four main Era 3: 1989 - 2010

(SFI, 2009a: 16). Britain was requiring of the Dominions and conducting its own research, as Forming New Zealand's own institutions

Problem-solving for commercia

The war effort (in the early stages of the (SFI, 2009a: 18). driver of technical expansion era). World War II acted as a significant

A gradual increase in research

capability (SFI, 2009a: 15).

Steady coalescing and gradual

organisation.

about the overall direction and

- and technology; Engaging New Zealanders with science
- through research and development;
- development of RS&T in New Zealand;
- Improving business performance

Era 4: 2010 - 2012

- Government-funded science will focus on: Improving international linkages
- Improving the innovation system Ensuring processes are cost-effective,
- Developing partnerships (MSI, 2011c: 8,

The institutional framework

The bi-institutional framework:

 Merger of MoRST and FRST into functionality. recombining policy and purchase for science and one for innovation, MSI, with two funding boards, one

Review of CRIs:

 The CRI Taskforce recommended a number of changes to the governance recommended. change to the number of CRIs was and funding of CRIs; however, no

Key enablers

- People
- Infrastructure
- International connections (MoRST, 2010a: 39).

Funding

A combination of competitive and core