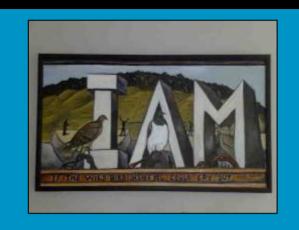
Four Possible Futures for **New Zealand** sustainablefuture.info

Sustainable Future

Sustainable Future Institute
Is an independent think tank specializing in research and policy analysis.



Project 2058

The strategic aim is to promote integrated long-term thinking, leadership and capacity-building so that New Zealand can effectively explore and manage risks and opportunities over the next 50 years. The method to achieve this aim is to produce a National Sustainable Development Strategy.

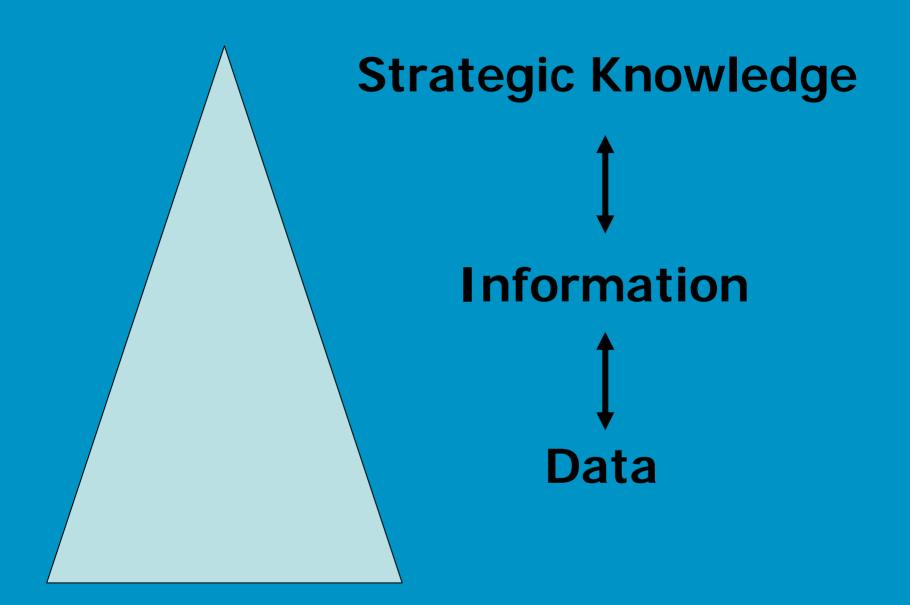
Presentation

Part A: Being a New Zealander

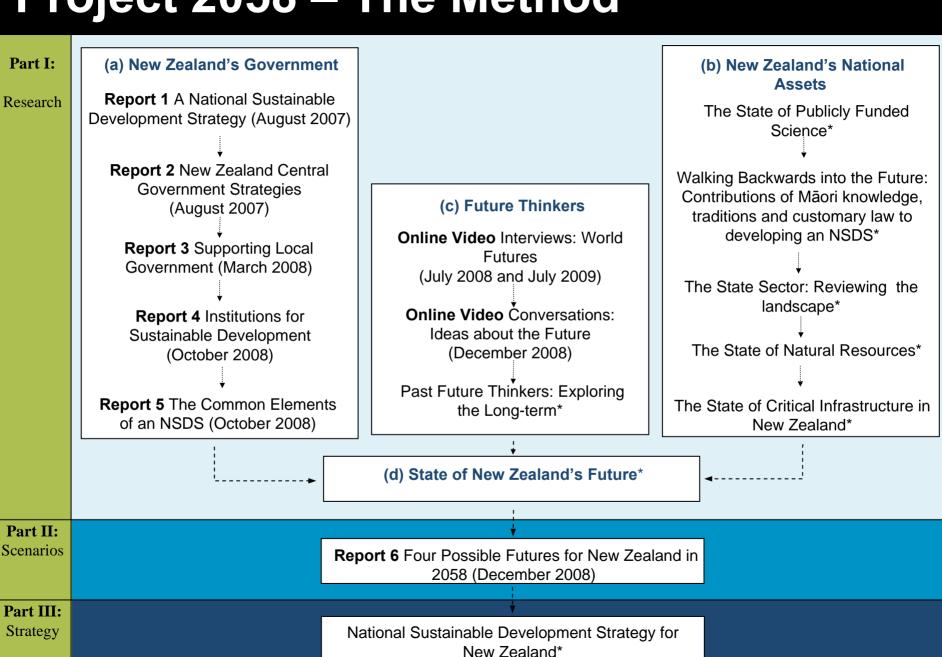
Part B: The Big Picture

Part C: 21 Drivers of Change

Part D: Scenarios



Project 2058 - The Method



A: Being a New Zealander

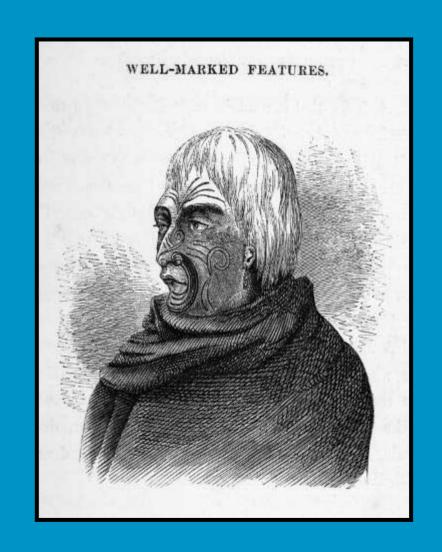


Chief 1800

For fifty years he was the most feared fighting chief and at one stage controlled about 1/4 of NZ.

He was also considered to be the creator of the famous haka:

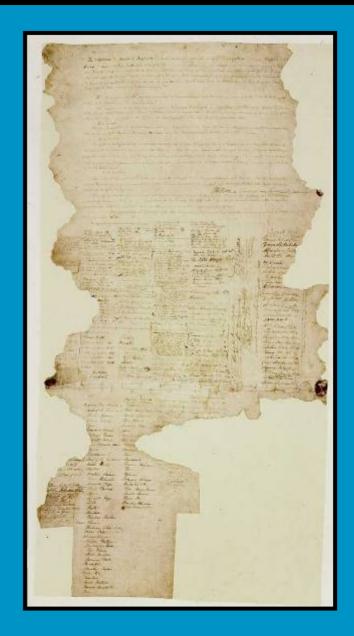
Ka mate! Ka mate!



Te Rauparaha (1760s-1849)

Treaty of Waitangi 1840

On 6 February 1840, the Treaty was signed between representatives of Queen Victoria and approx 500 Māori, (13 were women).

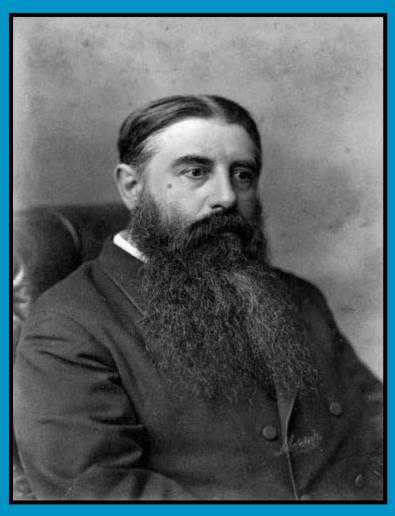


Maori King 1858



King Tawhiao (1822 – 1894)

Prime Minister 1873

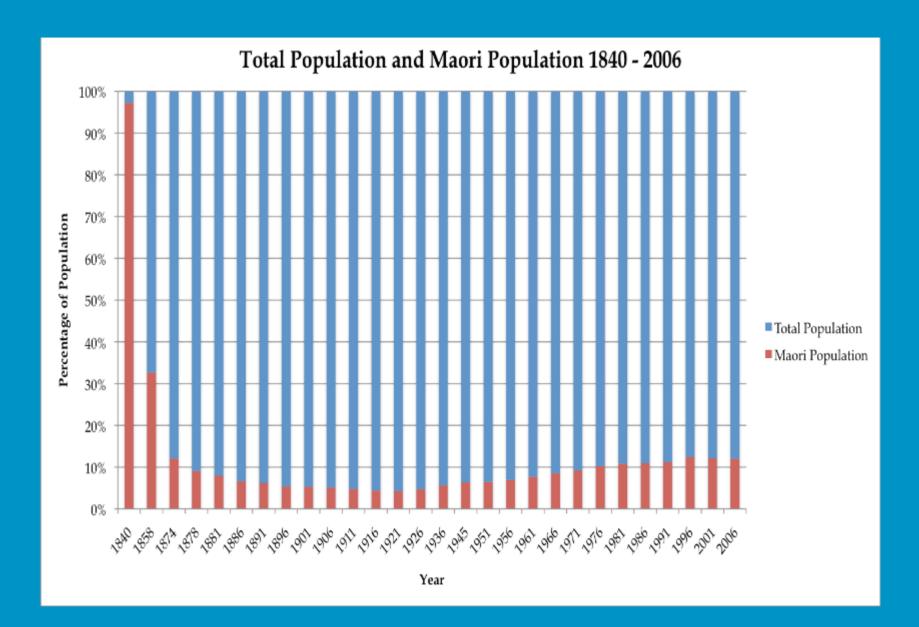


Julius Vogel (1835-1899)

Vogel implemented an immigration and works scheme designed to revive the economy and provide the pre-conditions of economic growth. In ten years he was able to bring about results that would otherwise have taken decades to achieve ...and do more to put an end to hostilities than an army of ten thousand men.

"We considered it very desirable, in a young country, that wealth should not be in the hands of a few capitalists [who]...would leave the country, and enjoy elsewhere the wealth so accumulated."

Population



B: The Big Picture

- Of the 97 billion who have lived 90 billion have died
- Of the 7 billion alive 3 billion currently live on \$2 or less a day
- Of the 4 billion living on more than \$2 2 billion are financially and physically dependent
- So we represent the 2 billion earning, alive and able to make a difference
 - (2 billion divided into 97 we are the 2%)

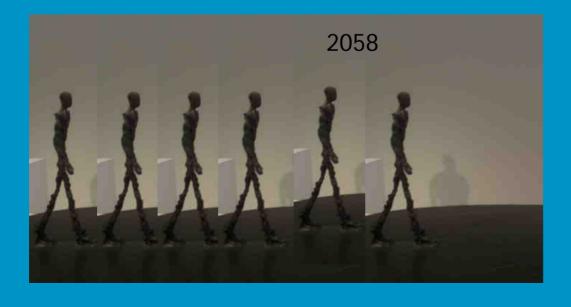
From 40:60 to 60:40

In 2008, 3 billion made \$2 or less per day.

Fifty years later, the developed countries & China grow old – while

Africa & India remains young.





Wild Cards

What, When, Where, Why, How?

Wild Card 1

Technology

- Info
- Nano
- Bio

Asteroids

Volcanoes

Wild Card 2

- Terrorism
- Crime
- War
- Nuclear War

Wild Card 3



Health & Safety

- Antibiotic R.
- Pandemic
- Food
- Water

C: 21 Global Drivers of Change

Primary Change Agents

- 1. Climate change
- 2. Population and demographics
- 3. Ecosystems and biodiversity
- 4. Energy
- 5. Resources
- 6. Values and beliefs
- 7. Justice and freedom

\longleftrightarrow

Global Drivers of Change

Secondary Change Agents

- 8. Political systems and institutions
- 9. Economic models
- 10. Management of ecosystems and resources
- 11. Infrastructure
- 12. Security and conflict
- 13. Technology
- 14. Information, learning and ideas

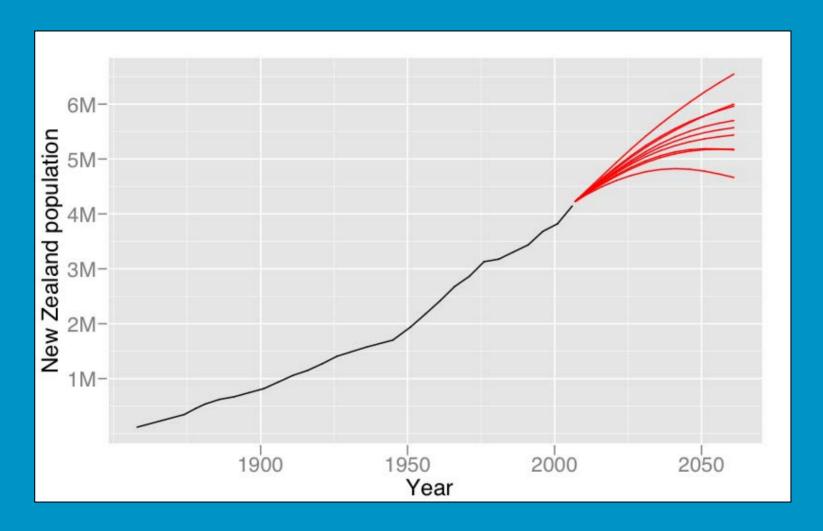
Wild Cards

- 15. Pandemic
- 16. Tsunami
- 17. Drought
- 18. Volcanoes and earthquakes
- 19. Astronomical events
- 20. Extreme weather
- 21. Terrorism, Biological and chemical warfare

Climate Change

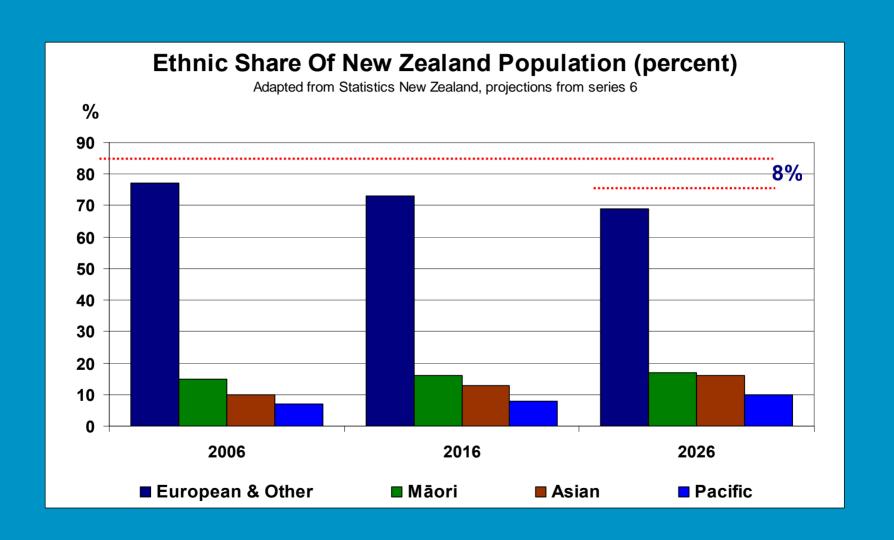


Population



New Zealand has one of the highest rates of combined immigration and emigration (population turnover) in the world.

Race Relations



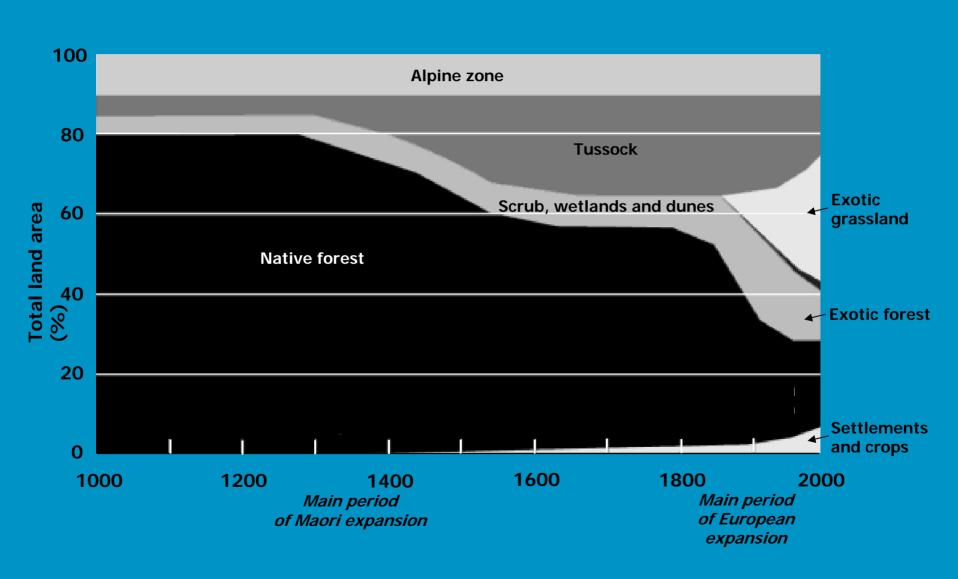
Values and Beliefs



Our Indigenous People

- 1. Whakapapa
- 2. Kaupapa
- 3. Kaitiakitanga
- Me titiro whakamuri tatou. Kia mohio ai.
 Me pehea haere ki mua (Walking Backwards into the Future)

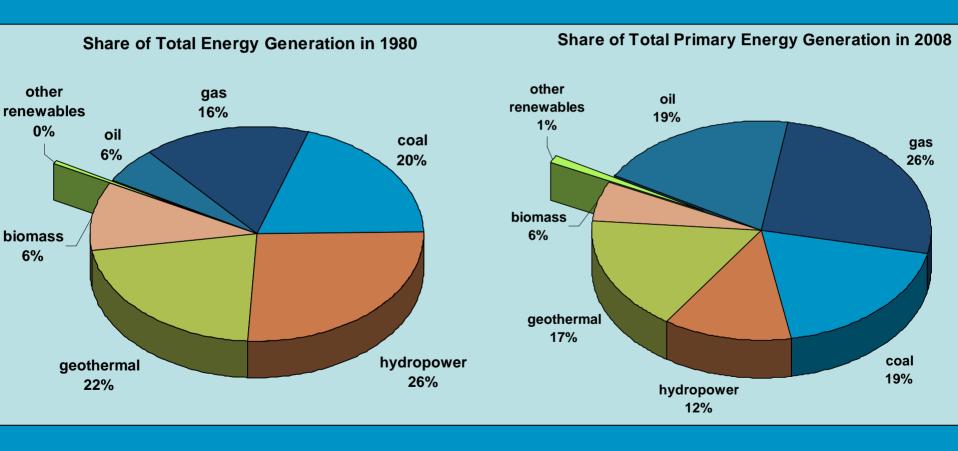
Management of Resources



Ecosystems and Biodiversity

National Park	Year Est.	Area (km2)	
Abel Tasman	1942	225	
Mount Cook	1953	707	
Arthur's Pass	1929	1144	
Egmont	1900	335	
Fiordland	1952	12519	
Kahurangi	1996	4520	
Mount Aspiring	1964	3555	
Nelson Lakes	1956	1018	
Paparoa	1987	306	
Raikiura	2002	1500	
Te Urewera	1954	2127	
Tongariro	1887	796	
Westland Tai Poutini	1960	1175	
Whanganui	1986	742	110/
Total Area in Parks	ATT PRODUCTION	30669	

Energy Generation



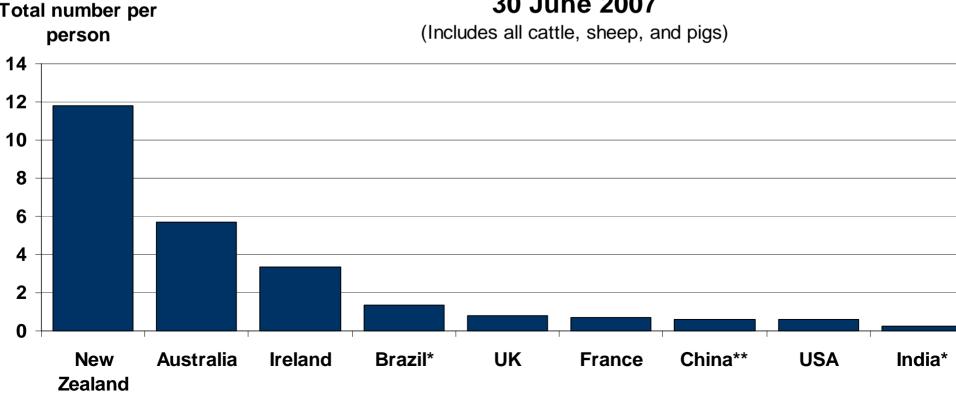
Damn the Dam



Resources



Total number of livestock per country per person as at 30 June 2007



Exports & Imports

2008 Exports

Dairy 22%

Meat 11.7%

Mineral Fuels 6.6%

Wood 5.0%

Machinery 4.8%

Aluminium 3.6%

Fruit 3.4%

2008 Imports

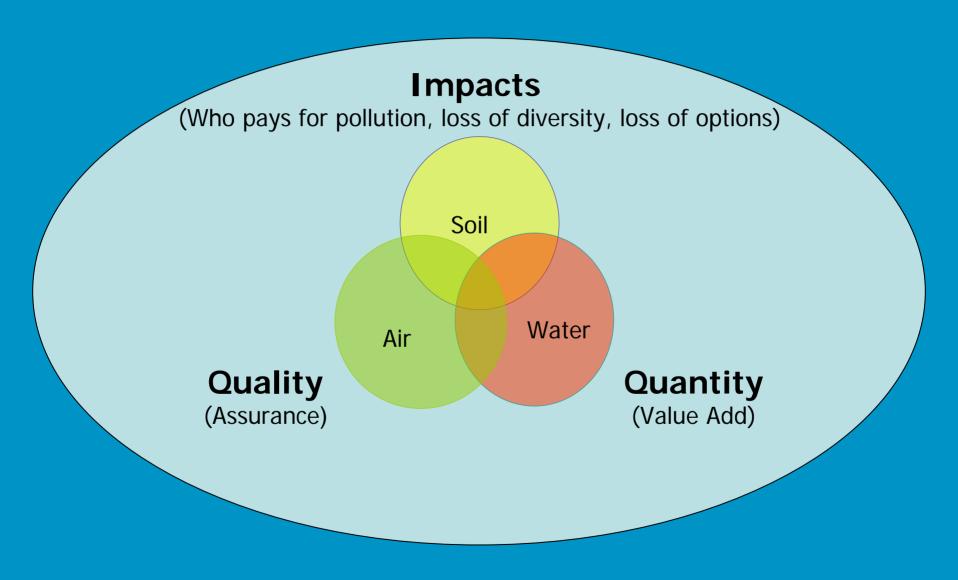
Fuels and oils 16%

Machinery 13%

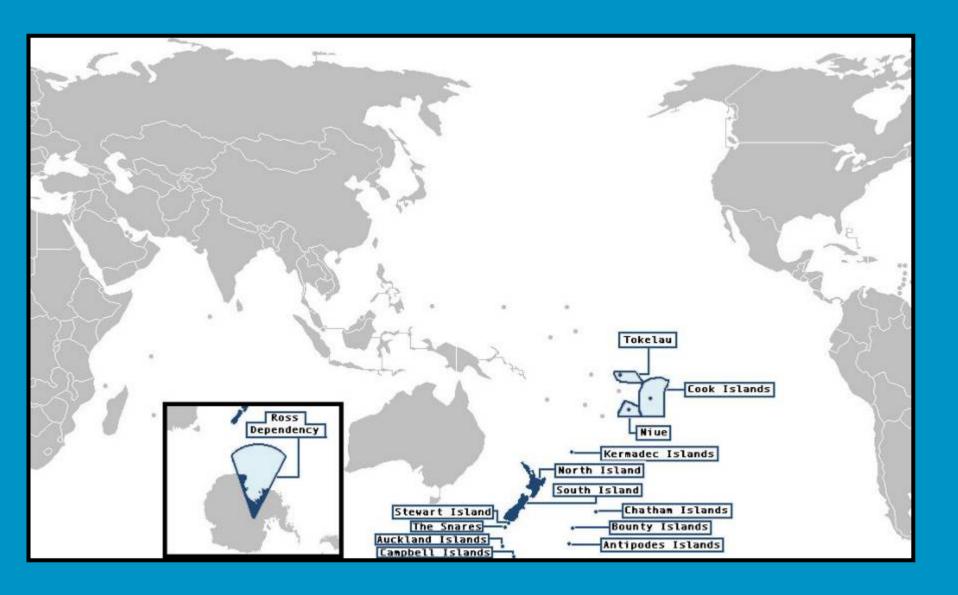
Motor vehicles 12%

Electrical machinery 8.5%

Agriculture

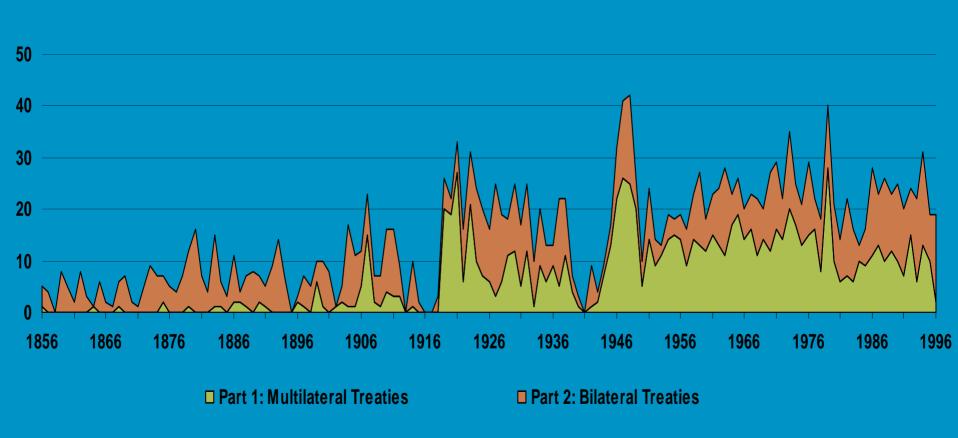


Not Just Three Islands



International Treaties

Number of treaties over time in New Zealand

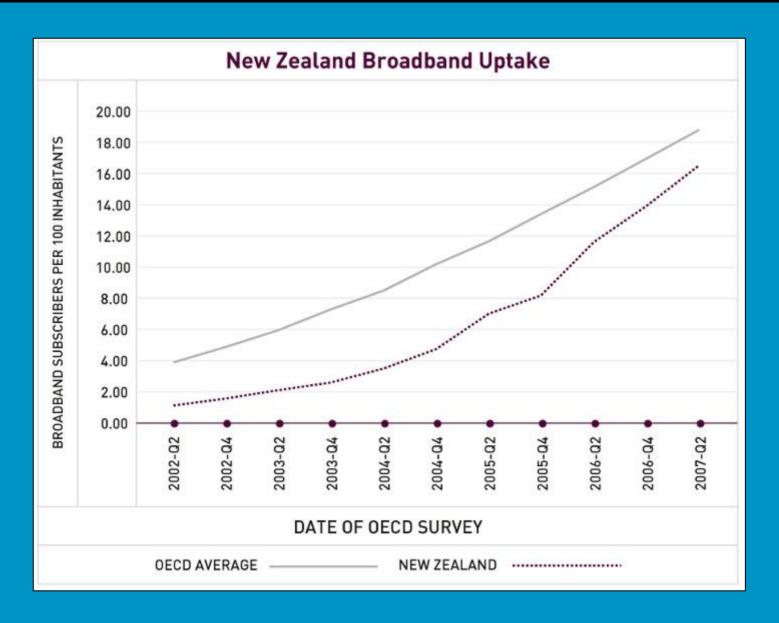


Exclusive Economic Zone

Security and Conflict



Technology

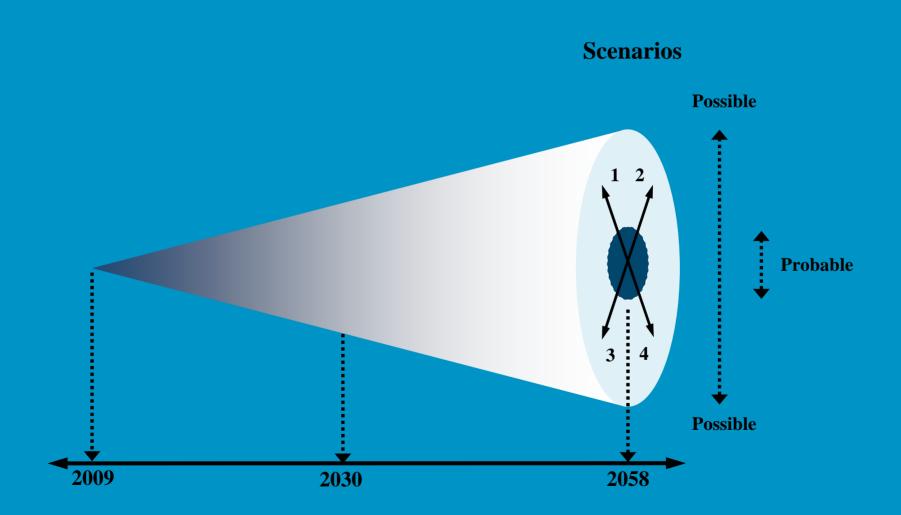


Benchmarking

UNDP, Human Development Report 2007/2008 and 2008 Update

Total Human Development Index	Includes Education Index	Includes Disparity of income (ratio of richest 10% to poorest 10%)	Includes RST expenditure (% GDP)	Includes GDP (per capita)
1. Iceland (0.968)	1= Australia (0.993)	1. Japan (4.5)	1. Israel (4.46)	1. Luxembourg (60 228)
3. Australia (0.962)	1= New Zealand (0.993)	42. Ireland (9.4)	20. Australia (1.70)	16. Australia (31 794)
19. Italy (0.945)	6. Norway (0.991)	64. Macedonia (1.25)	25. Russia (1.17)	27. UAE (25 514)
20. New Zealand (0.944)	12. Ireland (0.978)	65. New Zealand (12.5)	26. New Zealand (1.16)	28. New Zealand (24 996)
21. UK (0.942)	18. UK (0.970)	66. Australia (12.5)	27. Ukraine (1.16)	29. Greece (23 381)
177. Sierra Leone (0.336)	177. Burkina Faso (0.255)	126. Bolivia (168.1)	91. Peru (0.10)	174. Malawi (667)

D: Scenarios



The Team





Indicators

Responses of *Powerful* counties

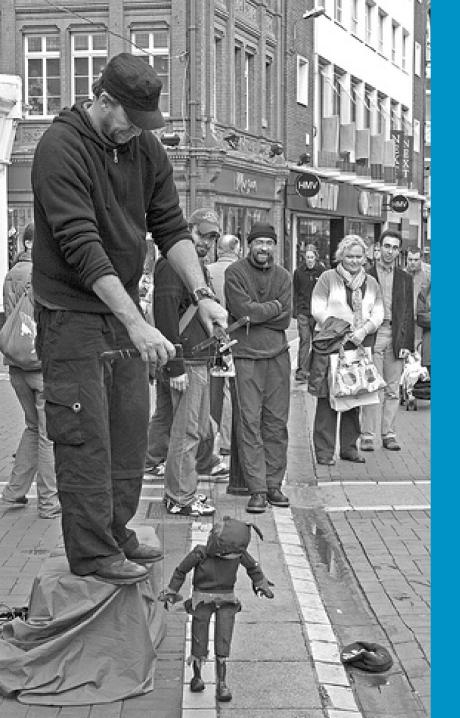
- Self-sufficient, heavily armed and a fortress mentality
- Serious engagement with all the problems of the planet

Responses of Small counties

- Disrupt
- Ignore
- Adapt / Innovate
 - Monitor closely what is happening
 - Support global leadership (UN, WB, etc)
 - Build alliances (e.g. State of Australia, Pacific Union)
- Leadership lead by example

Small countries like New Zealand might have a limited ability to influence world events...

...but we can still shape the future.



New Zealand will never be the puppeteer...

...but we can be part of the audience, and that means we can decide to give a standing ovation or boo the performance.



We can show global players how changes should be made – not because they have to listen to us...

...but because small countries have put in place something that powerful countries want.



- not because we have to, but because we want what it can deliver

