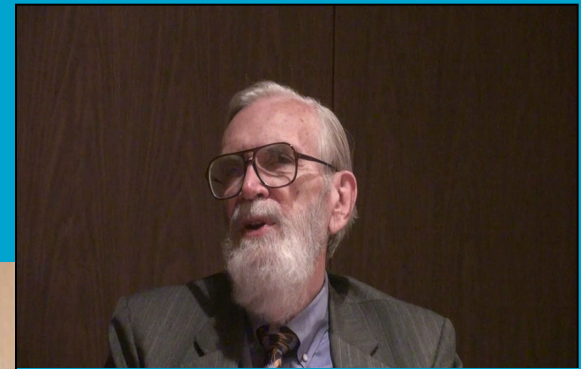




**New Zealand
in 2058**

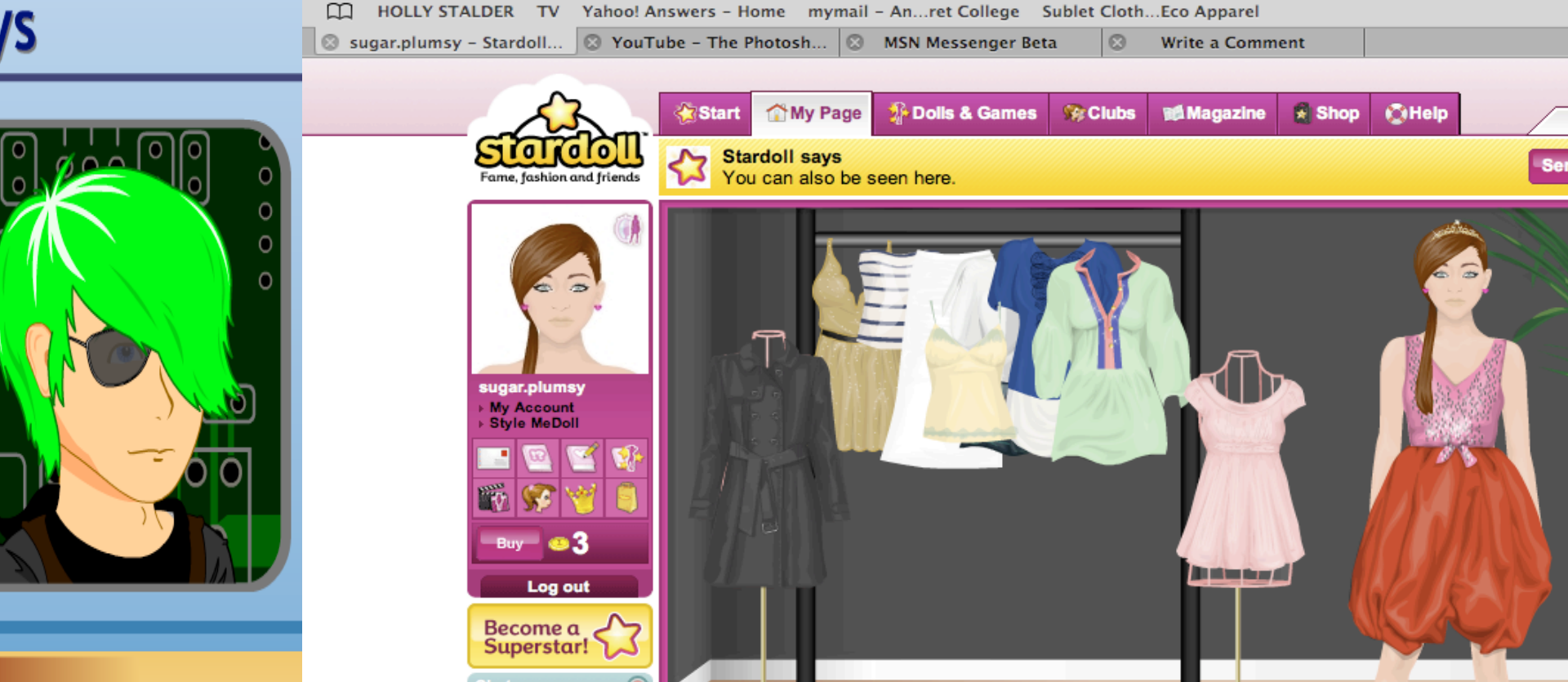
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**Joseph Coates,
Professional Futurist,
New York**

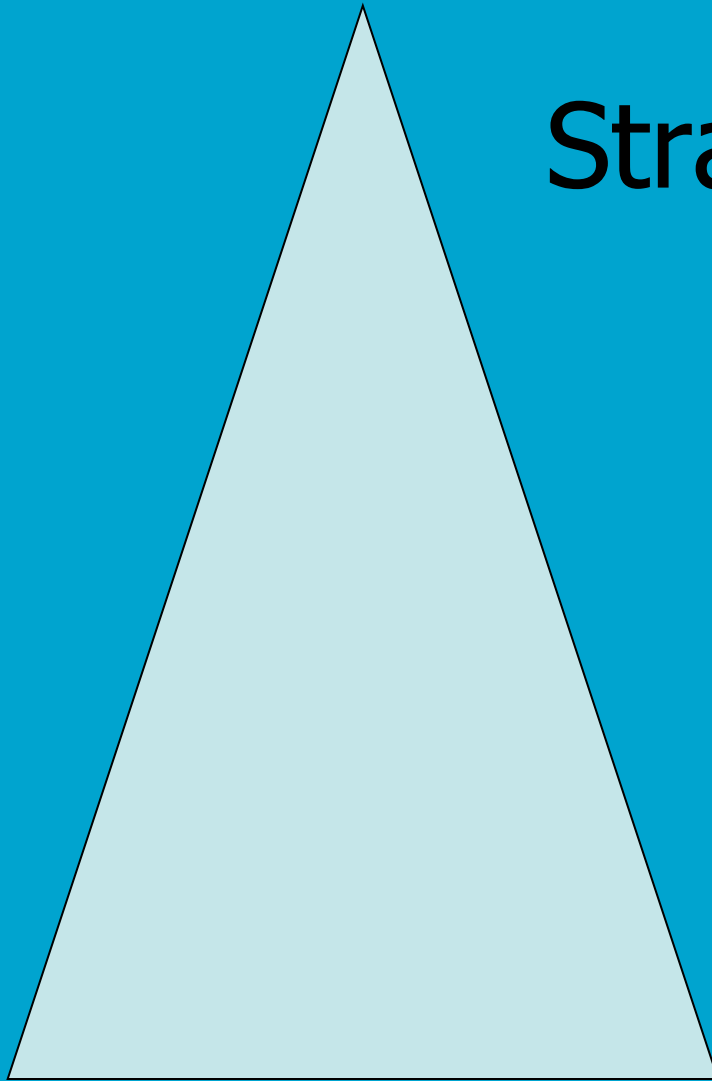


**Jerome C. Glenn – Director, The Millennium
Project and co-author of the
State of the Future, 2008**



An avatar is a computer user's representation of himself/herself or alter ego.

Virtual reality (VR) is a technology which allows a user to interact with a computer-simulated environment, be it a real or imagined one.



Strategic Knowledge



Information



Data

Futures Studies

Probable futures: forecasting and sometimes prediction

Possible futures: scenarios, risks
(Explorative)

Preferred futures: strategies and agendas for change, propelled by innovation and leadership (Visionary)

Steps Towards Scenarios

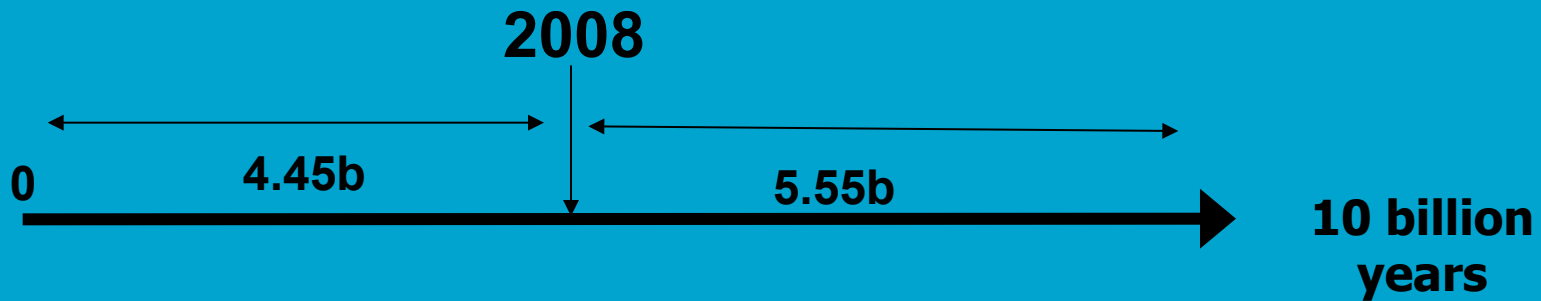
- 1. Define** project parameters, trends, driving forces, assumptions
- 2. Explore** uncertainties and rank
- 3. Build** scenario worlds, write stories, test
- 4. Use** consider implications, review, communicate



The Future of Mankind?

The Maths – Why we count

- **97 billion have lived**
- **90 have died**
- **We are part of the 7 billion alive**
- **3 billion currently live on \$2 or less**
- **We are part of the 4 billion**
- **Less than half are financially and physically independent**
- **So we in the room are representative of about 2 billion that have time and \$ to make a difference**
- **So 2 billion into 97 – we are the 2%**

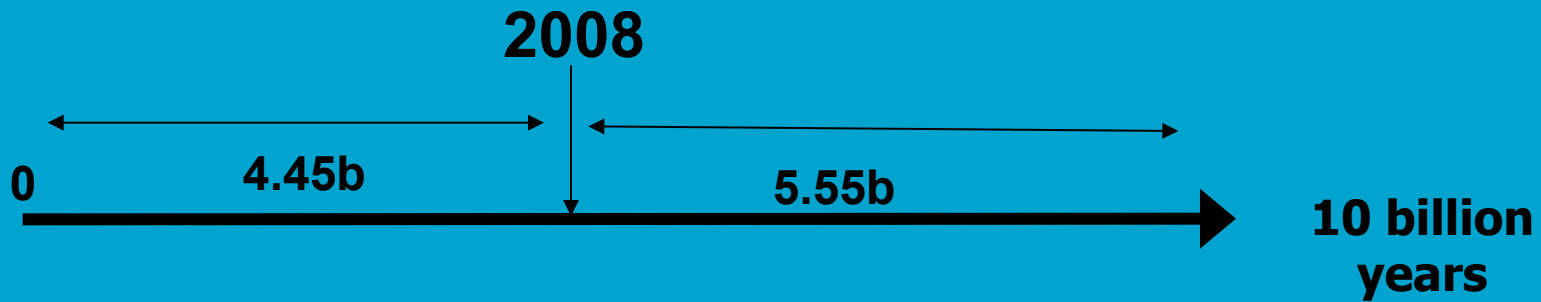


Two million years ago, evolution tells us...

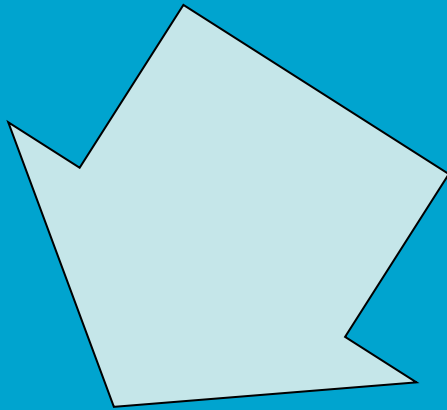
Be like the *habilis* - the archetypal jack-of-all-trades, inquisitive scavengers prepared to try almost anything to survive. Be tough, active, gregarious and noisy, always on the move and always alert to the possibility of a ...meal.

Don't be like the *boisei* – whose behaviour was specialised for survival in only one niche, they didn't make it. They live within a strict social structure and are led by a dominant male whose strength and power holds the group together.

The *boisei*'s specialisation has locked them into one way of living, and when their niche no longer exists, neither can they. But the *habilis* can adapt to a changing world - their generalist trait lives on in us.

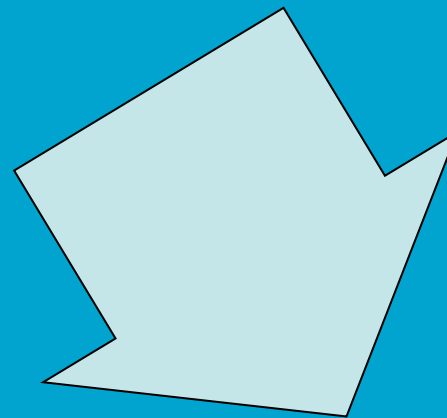


About 100,000 years ago ...evolution tells us



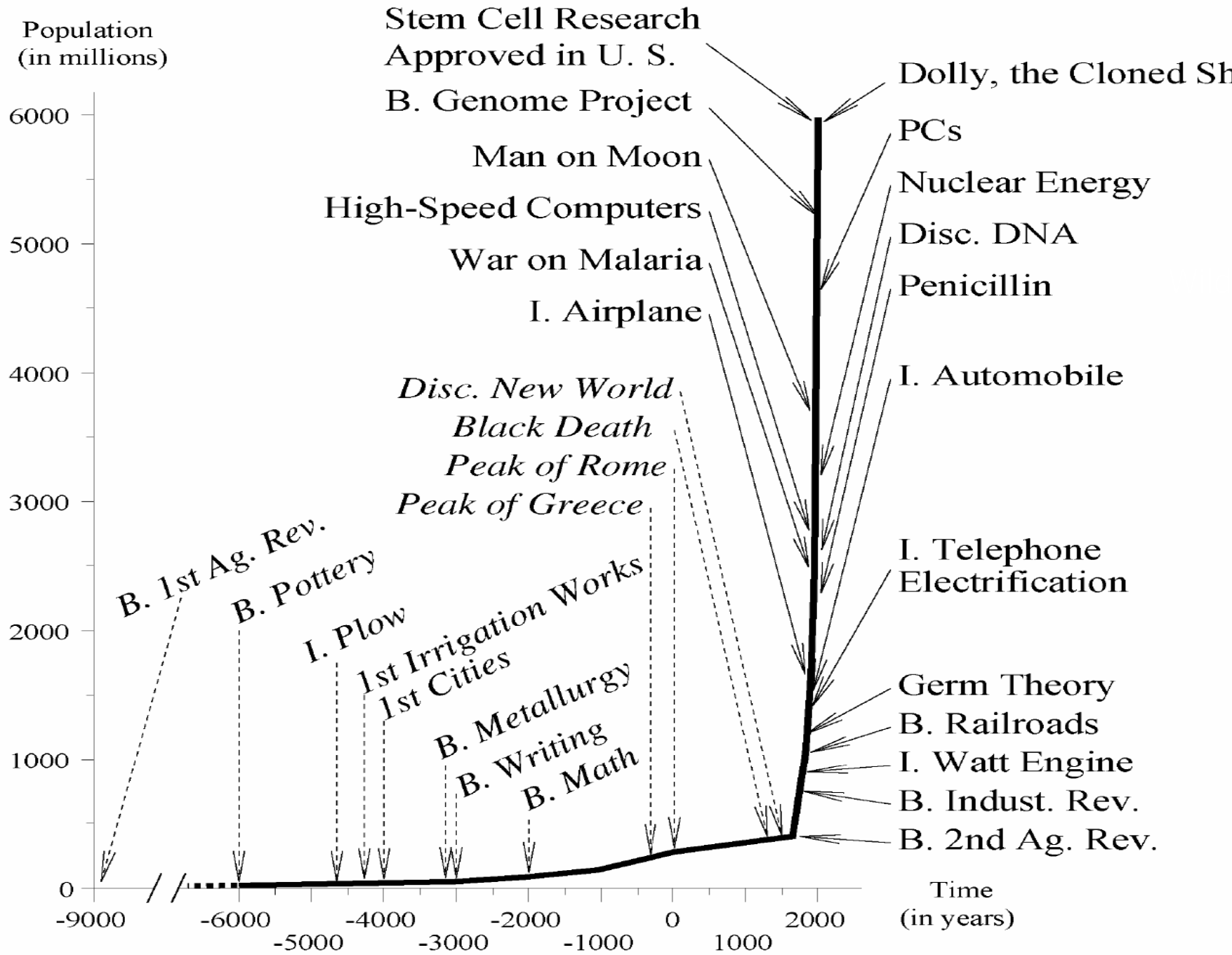
Neanderthals

In the North - have physical power but did not survive



Homo sapiens

In the South - have developed a mind capable of imagination - a creature capable of understanding and anticipating possibilities, with the gift of abstract thought.

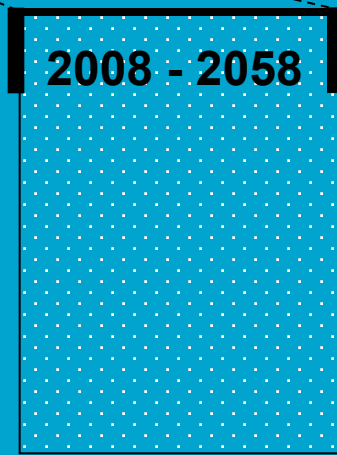




Big
Bang

2008

10 billion
years



50 Years

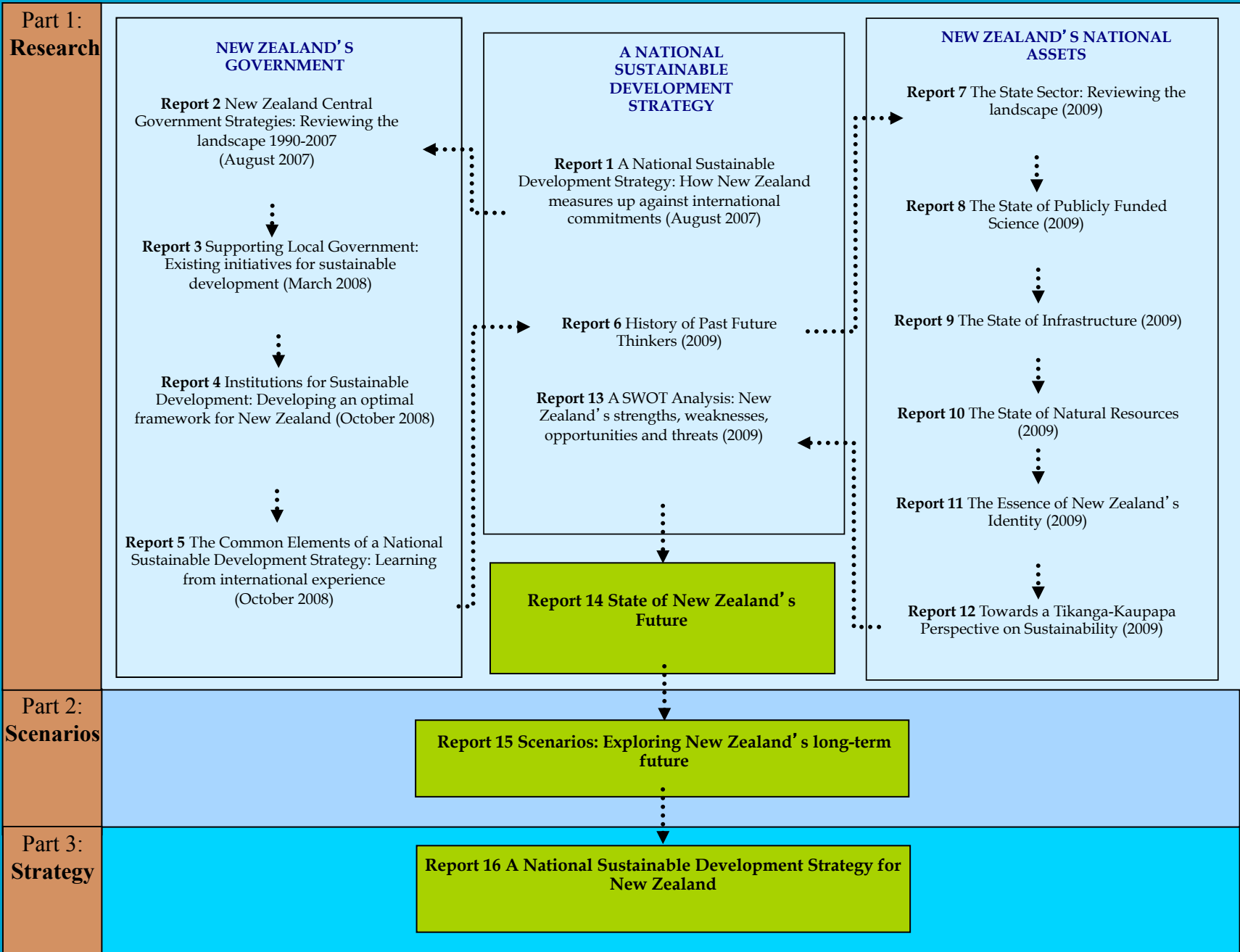
**Project
2058**

Futures Studies

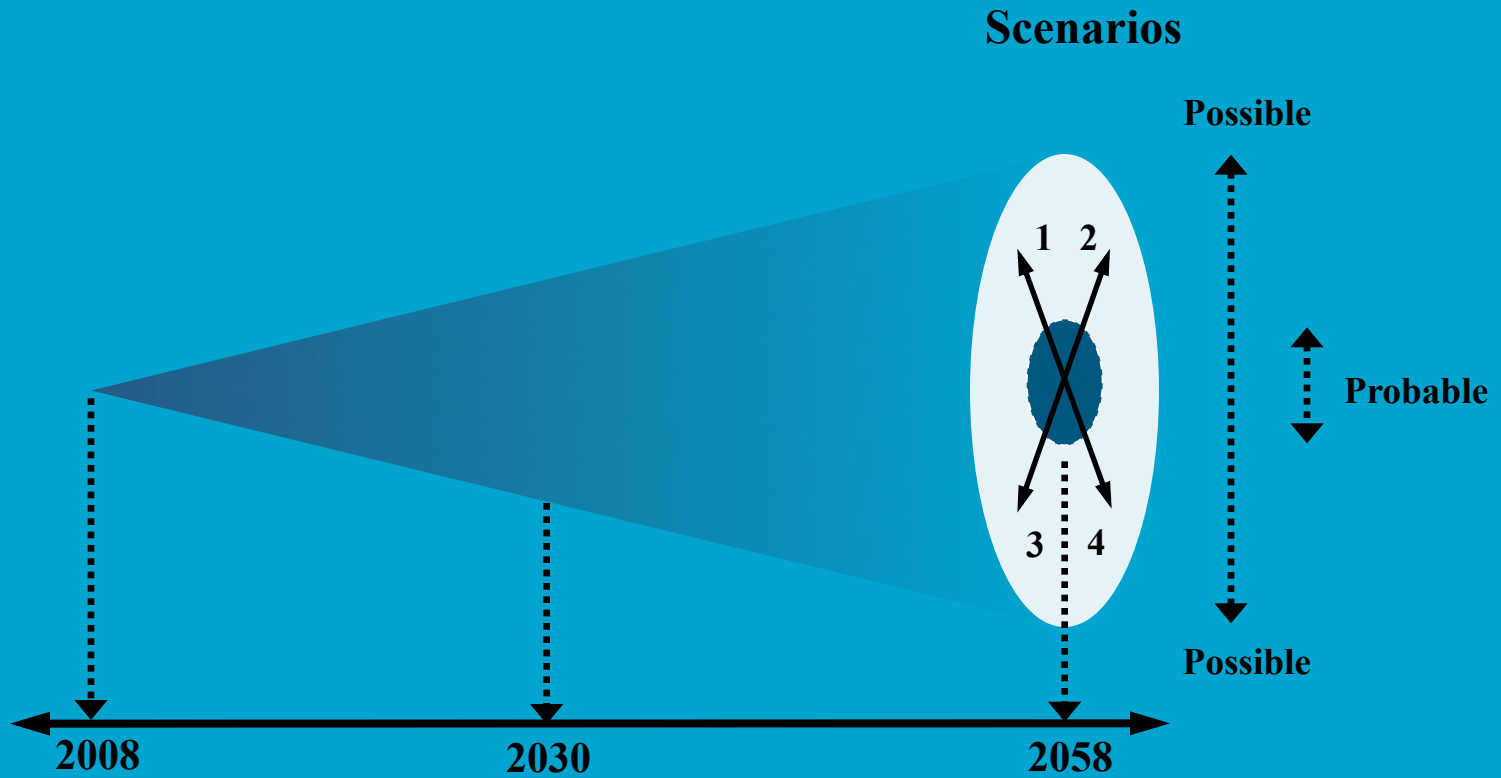
Probable futures: forecasting and sometimes prediction

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Fifty Years Into The Future



Change Agents

1. Climate
2. Demography
3. Ecosystems
4. Energy Production
5. Food & Water
6. Values & Beliefs
7. Justice & Freedom

Response to Change Agents

1. Management of Ecosystems & Resources
2. Infrastructure
3. Security & Terrorism
4. Technology
5. Governance & Institutions
6. Economic Risks
7. Information & Ideas

Wild Cards

Given the

- **increase in population**
- **increase in per capita consumption**
- **climate change &**
- **the existence of wildcards**

Wild Card 1

Technology

- **Info**
- **Nano**
- **Bio**

Wild Card 2

Terrorism & War

- **Crime**
- **War**
- **Nuclear War**

Wild Card 3

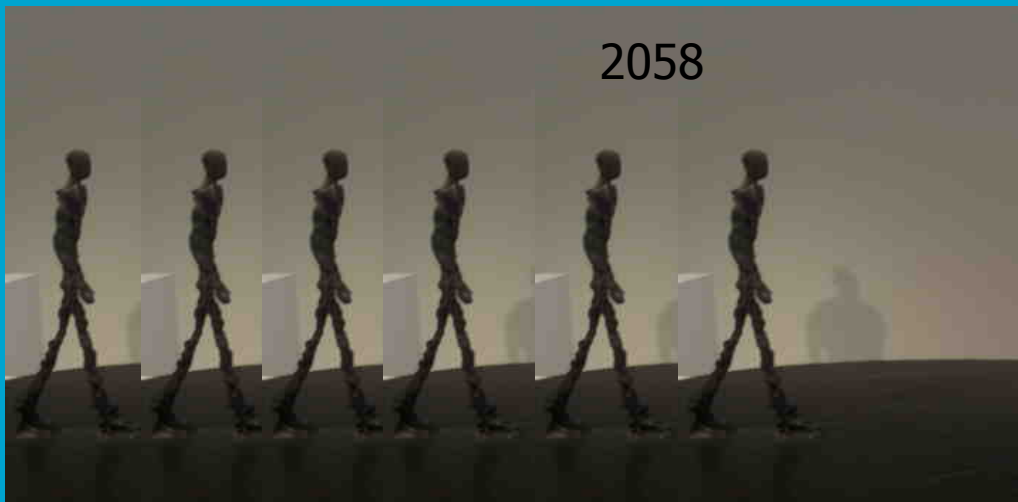



Health & Safety

- **Antibiotic R.**
- **Pandemic**
- **Food**
- **Water**

In 2008, 3 billion make \$2 or less per day. In 2058, it may be 6 billion.

The developed countries and China grow old – while Africa remains young.





**Things
are
looking
up...**

**80% of all
scientists
are alive
today**



Going Up



Going underneath



**Going
underwater**



...Leaving





Man & Machine?

Man is expected to create a machine with the equivalent of a human brain by 2029...

Crime is now global

- **\$1 trillion pa Illicit Trade**
- **150 unauthorised use of nuclear or radioactive materials in the last 4 years**
- **20,000 active nuclear weapons**





Our generation is likely to have a life expectancy of 92 – 100 years of age.

Our children, if we fail to manage their weight gain, will have 80 year old bodies in 50 year old skin.

Watch for Weak Signals

Responses for Powerful countries

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

Responses for Small countries

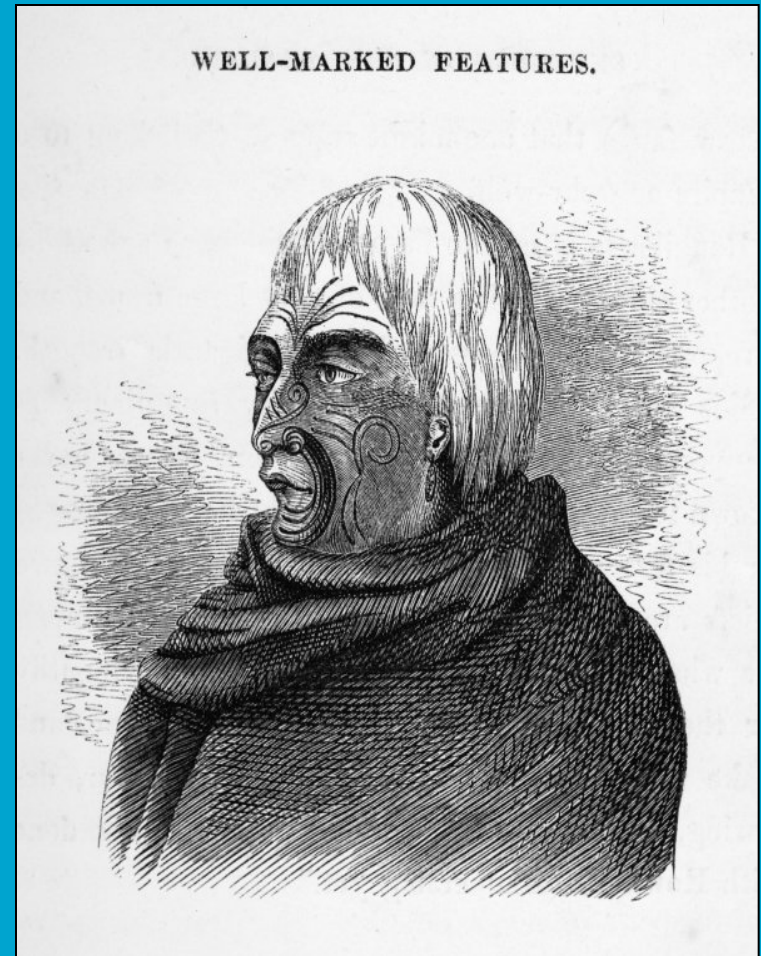
- Ignore
- Adapt (monitor closely what is happening)
- Support global leadership (UN, WB, etc)
- Build alliances (state of Australia, Pacific Alliance?)
- Try to shape (lead by example)

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

He was celebrated for his courage, cleverness, resourcefulness and skill in diplomacy – making him one of the greatest contemporary leaders in the traditional Maori style.

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

Ka mate! Ka mate!



Te Rauparaha (1760s-1849)

Immigration and Works Scheme 1870

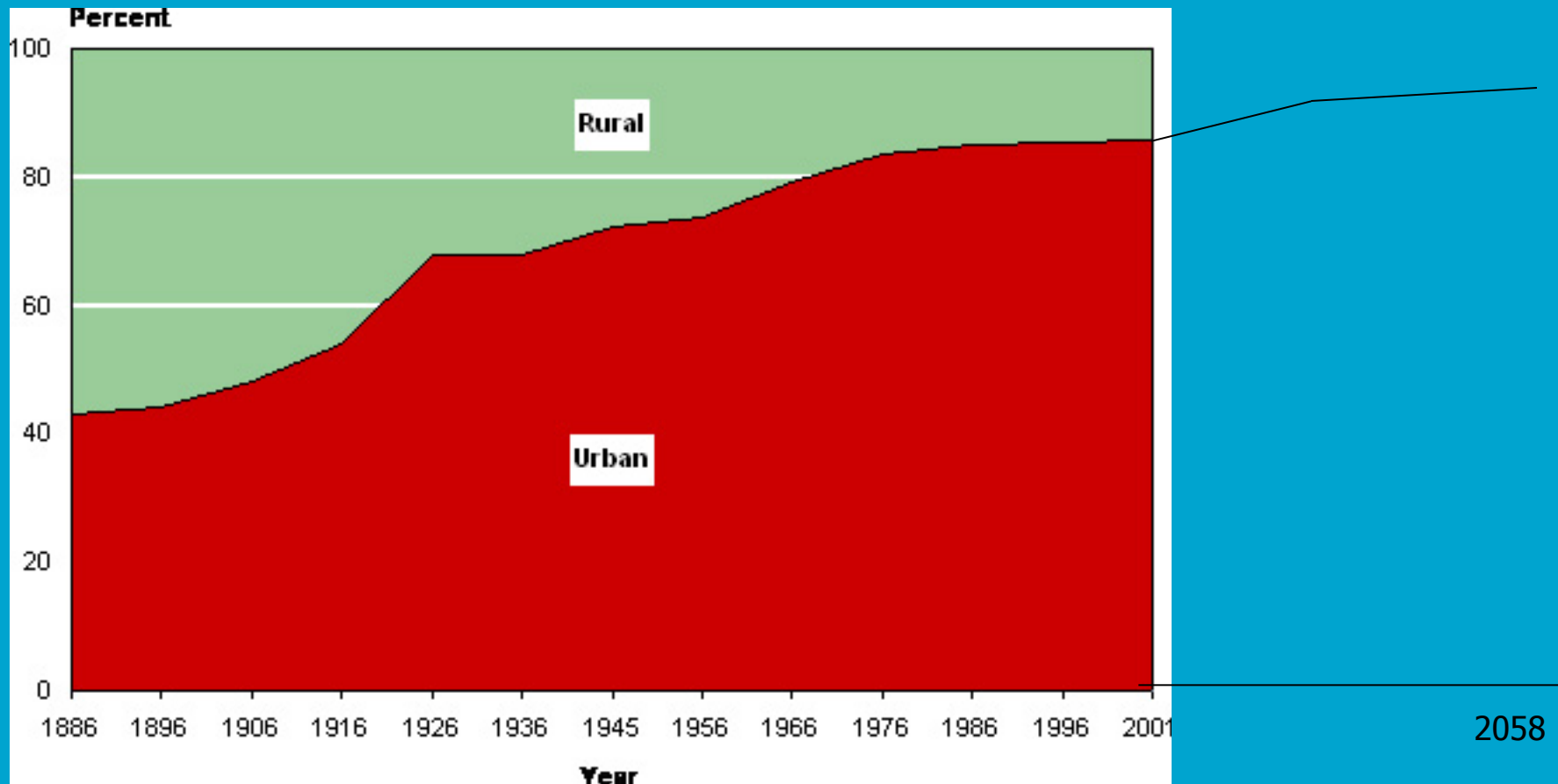


Julius Vogel (1835-1899)

A development plan designed to revive the economy and provide the pre-conditions of economic growth, included roads in the North, railways in the South ...“do more to put an end to hostilities and to confirm peaceful relations, than an army of ten thousand men’...

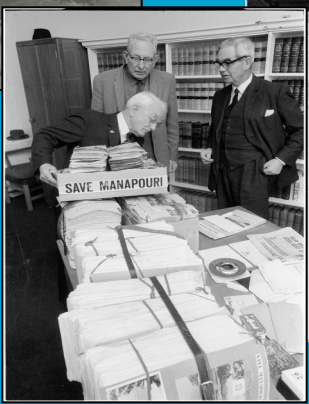
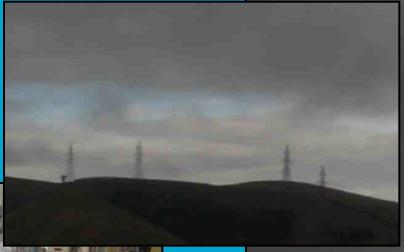
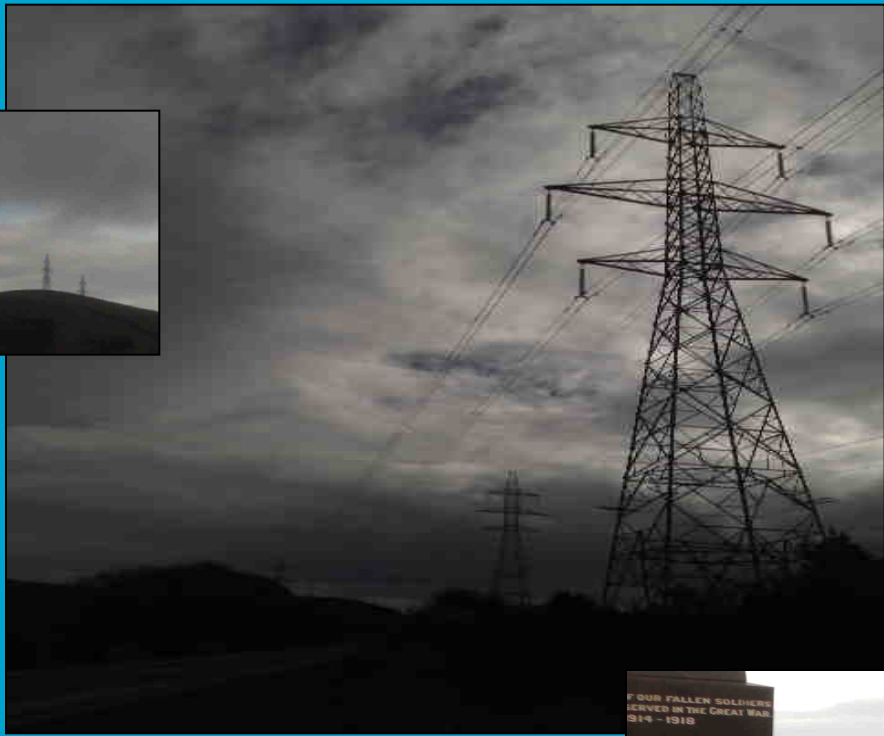
“We considered it very desirable, in a young country, that wealth should not be in the hands of a few capitalists...[who]...would leave the country, and enjoy elsewhere the wealth so accumulated.”

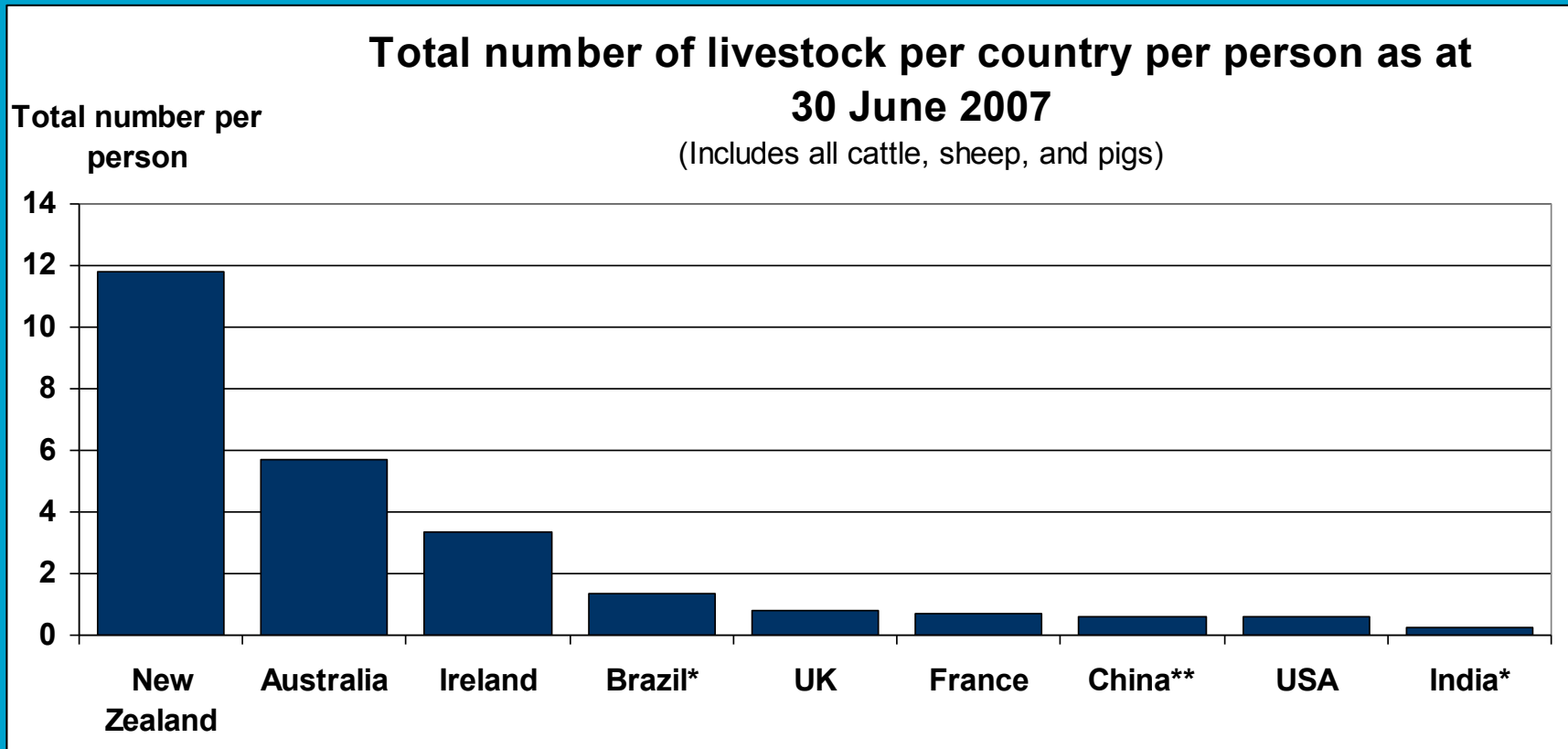
New Zealand Rural Urban Population Mix

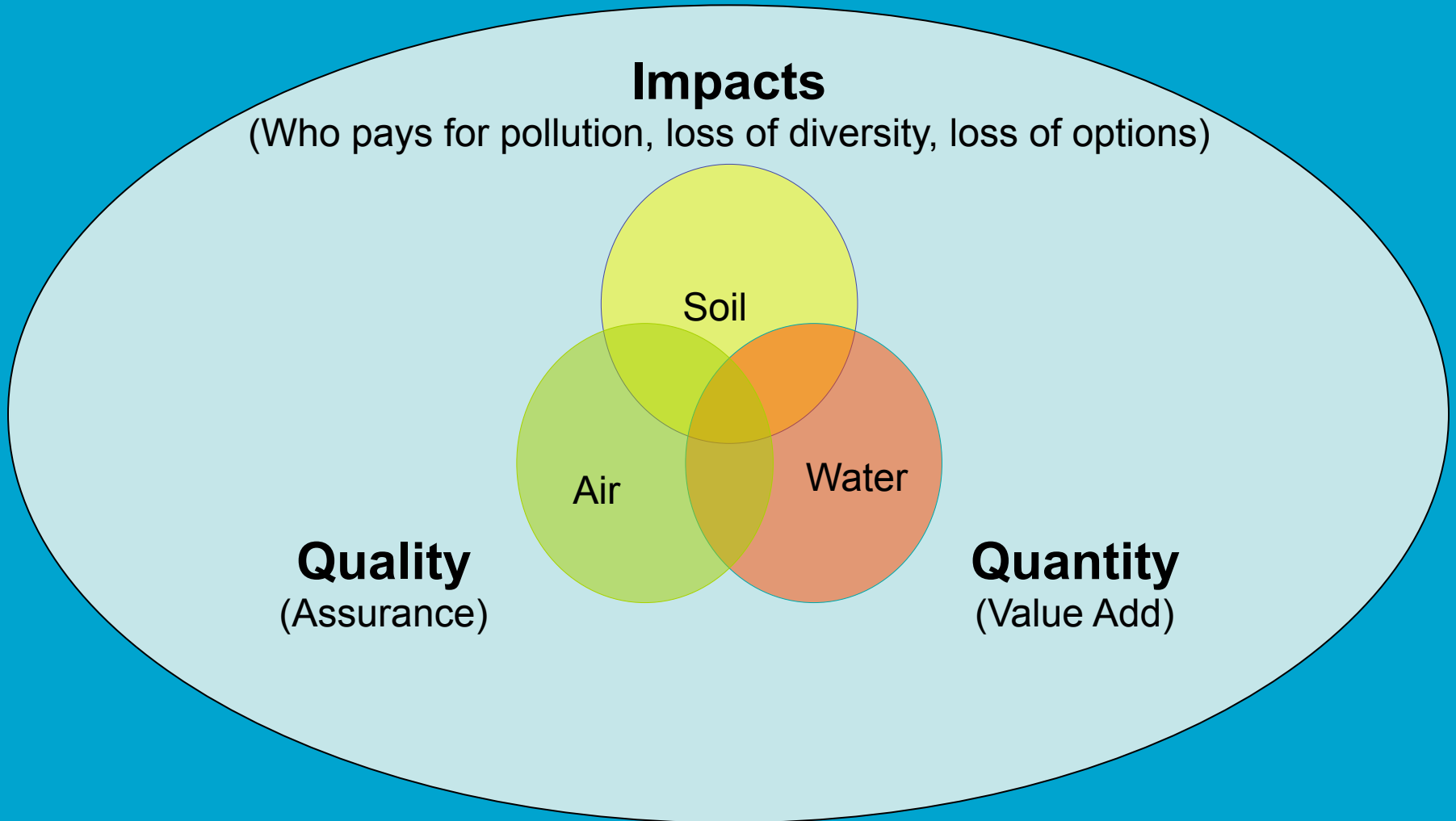


NZ

**Is this
a good
deal in
1908?
1958?
2008?
2058?**







Our Findings

Scenario Matrix	...the World does manage its opportunities and threats	...the World does not manage its opportunities and threats
New Zealand does manage its strengths and weaknesses and..	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Fail
New Zealand does not manage its strengths and weaknesses and...	<input checked="" type="checkbox"/> Fail	<input checked="" type="checkbox"/> Fail

the green new deal



2008

Why do you think scientists and engineers were able to devise the atomic bomb in only four years and put a man on the moon in only eight years?

What factors were necessary for these accomplishments?

**New Zealand
needs a
'National Strategy'
to optimise our future,
to align our industry,
to reinforce our national brand and
to be an example of what is possible**

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

The background consists of a 3x4 grid of colored squares. The colors used are a vibrant blue, a lime green, a burnt orange, and a dark navy blue. The squares are arranged in a checkerboard-like pattern, with each square being a different color from its immediate neighbors.

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