

Towards a science and technology policy for a dynamic Australian economy



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The context #1: lights of the world

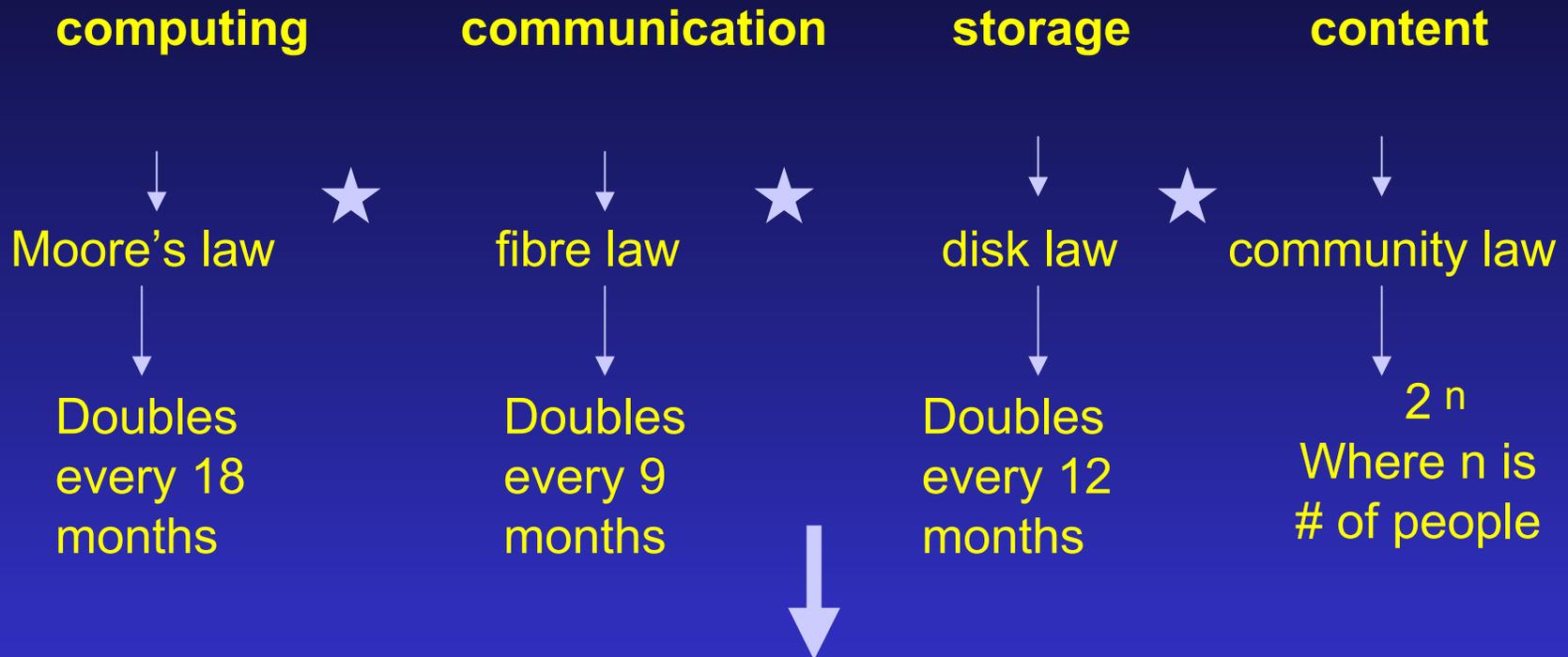


Composite photo prepared by NASA

The context #2: the two per cent economy

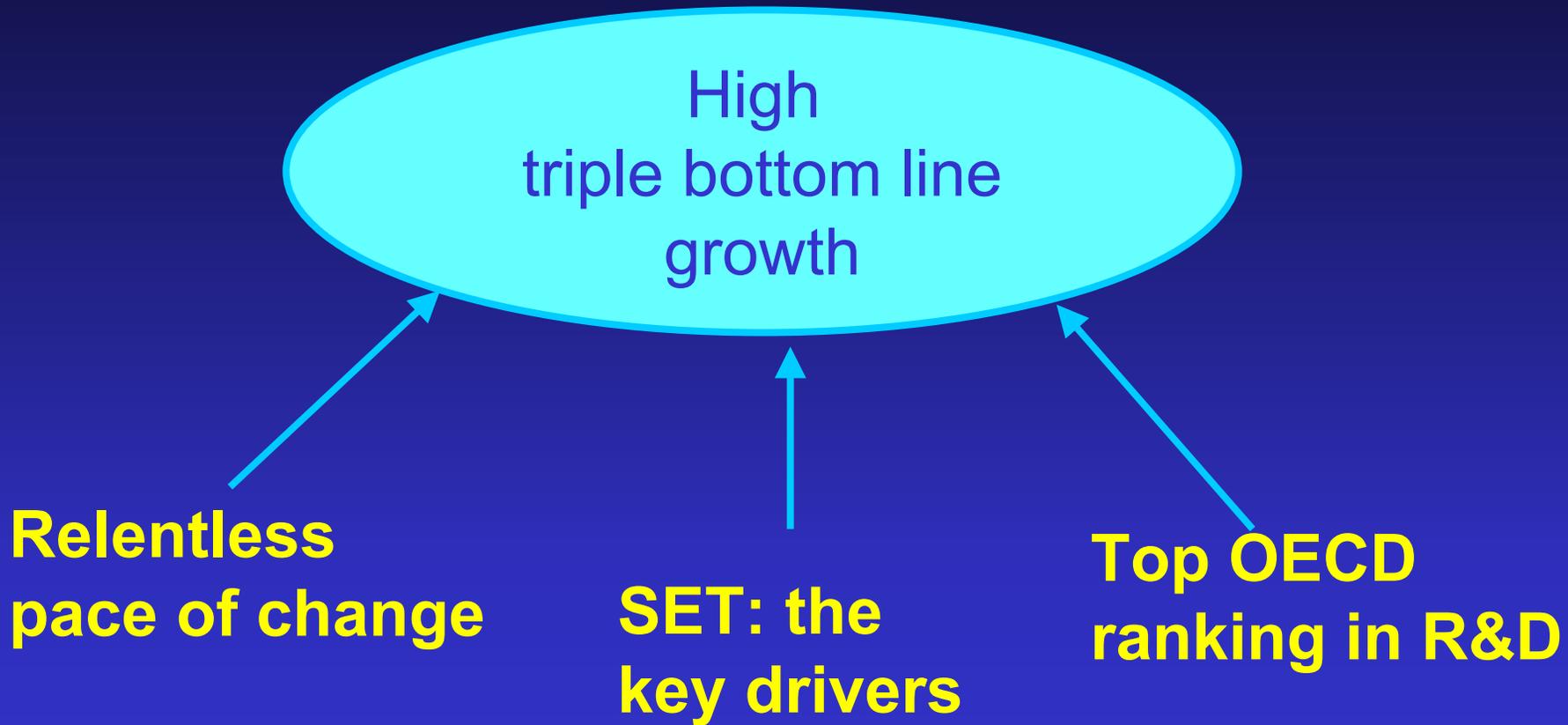


Context #3: pace of change



Continuous innovation at amazing speeds
through the creative recombination of crafts.
(The exponential pace will continue throughout this decade)

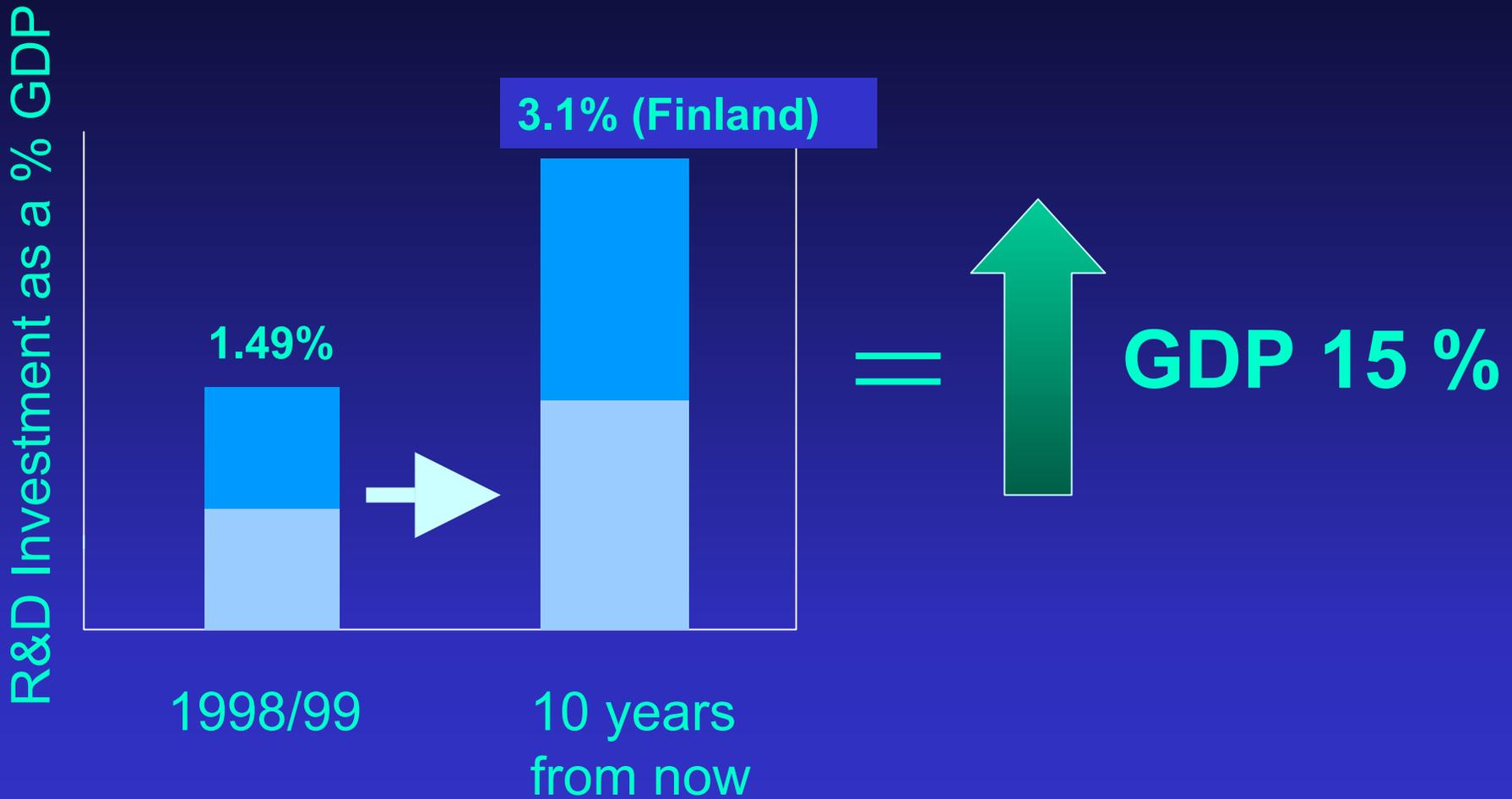
Vision for Australia



Other visionaries

- Finland
- Canada
- Singapore
- Taiwan

Finland: innovation delivers



Canada: excellent base

- Be one of the top 5 countries for R&D by 2010
- Canada Foundation for Innovation – capital investment budget of \$C3.15b
- Research Chairs Program, a \$C900m initiative to fund 2000 researchers acknowledged by their peers as world leaders

Singapore: ideas

- 1990 + quality
- 1995 + innovation
- 2001 + productivity

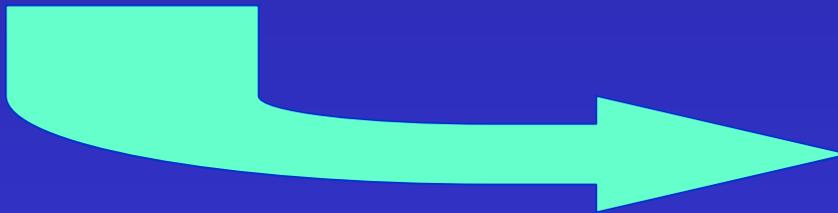
- Biomedical Sciences Group has up to \$2b to invest in biotech research

Taiwan: brain regain

- Academia Sinica (1928) includes 6 Nobel Laureates, 25 research institutes and 212 academics of whom 197 reside outside Taiwan.
- Science parks and start-ups

Making the vision happen

- nourish excellence
- strengthen competition
- foster collaboration
- teach enterprise and literacy
- much improved linkages



**X 10 new
industries**

Collaboration

- Opportunities in:
 - Cooperative Research Centres
 - ARC Special Research Centres
 - Major National Research Facilities
 - ICT and Biotechnology Centres of Excellence
 - CSIRO 'Flagship' programs
- ARC priorities (2003)
 - Nano and biomaterials
 - Genome/phenome research
 - Complex/intelligent systems
 - Photon science and technology

Bushfire research

Dryland salinity

Plant genomics

Biotechnology

Child health

Making Kyoto irrelevant

Biodiversity

Information communications technology

and:

engaging social sciences and humanities



Measurement of success

Regular reporting in the *Herald Sun* that governments and company boards identify R&D as an investment, not a cost.

