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The Natural Edge Project



TNEP's latest CSIRO ECOS article!

'Water solutions adapted for climate change'



Cheryl with GCCC Mayor Ron Clark MBE Foundation Partner for NAON



Cheryl with Hugh Jackman at the 2020 Summit, Canberra

The Natural Edge Project (TNEP) is a collaborative partnership for education, research and policy development on innovation for sustainable development.

TNEP's mission is to contribute to and succinctly communicate leading research, case studies, tools and strategies for achieving sustainable development across government, business and civil society.

Driven by a team of early career Australians, the non-profit Project receives mentoring and support from a range of experts and leading organisations in Australia and internationally, through a generational exchange model. TNEP works in partnership with a number of Australian Universities including Griffith University, Adelaide University, QUT, Curtin University, and ANU after being incubated by The Institution of Engineers Australia.

Latest News

- › 'Sustainable Energy Solutions for Climate Change Mitigation'
- › 'Sustainable Water Solutions for Climate Change Adaptation'
- › 'An Integrated Approach to Sustainable Engineering'

TNEP PARTNERS IN RESEARCH, EDUCATION AND PRACTICE





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The Natural Ed

› Sustainability Education for High Schools: Year 10-12 Subject Supplements (*Online*)

› E-Waste Education Courses (*Online*)

› Introduction to Sustainable Development (*Online*)

› Principles and Practices in Sustainable Development (*Online*)

› Sustainable IT (*Online*)

› Whole System Design: An Integrated Approach to Sustainable Engineering (*Online*)

› State of Engineering Education for Energy Efficiency - Survey Results

› An Investigation into Increasing the Extent of Energy Efficiency Education in Engineering

› Energy Transformed: Sustainable Energy Solutions for Climate Change Mitigation (*Online*)

› Water Transformed: Sustainable Water Solutions for Climate Change Adaptation (*Online*)



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Cheryl with GCCO Foundation



Cheryl with Hugh Jackson at the 2020 Summit, Canberra

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TNEP's mission is to contribute to and disseminate leading research, technologies, tools and strategies for sustainable development across government, business and civil society.

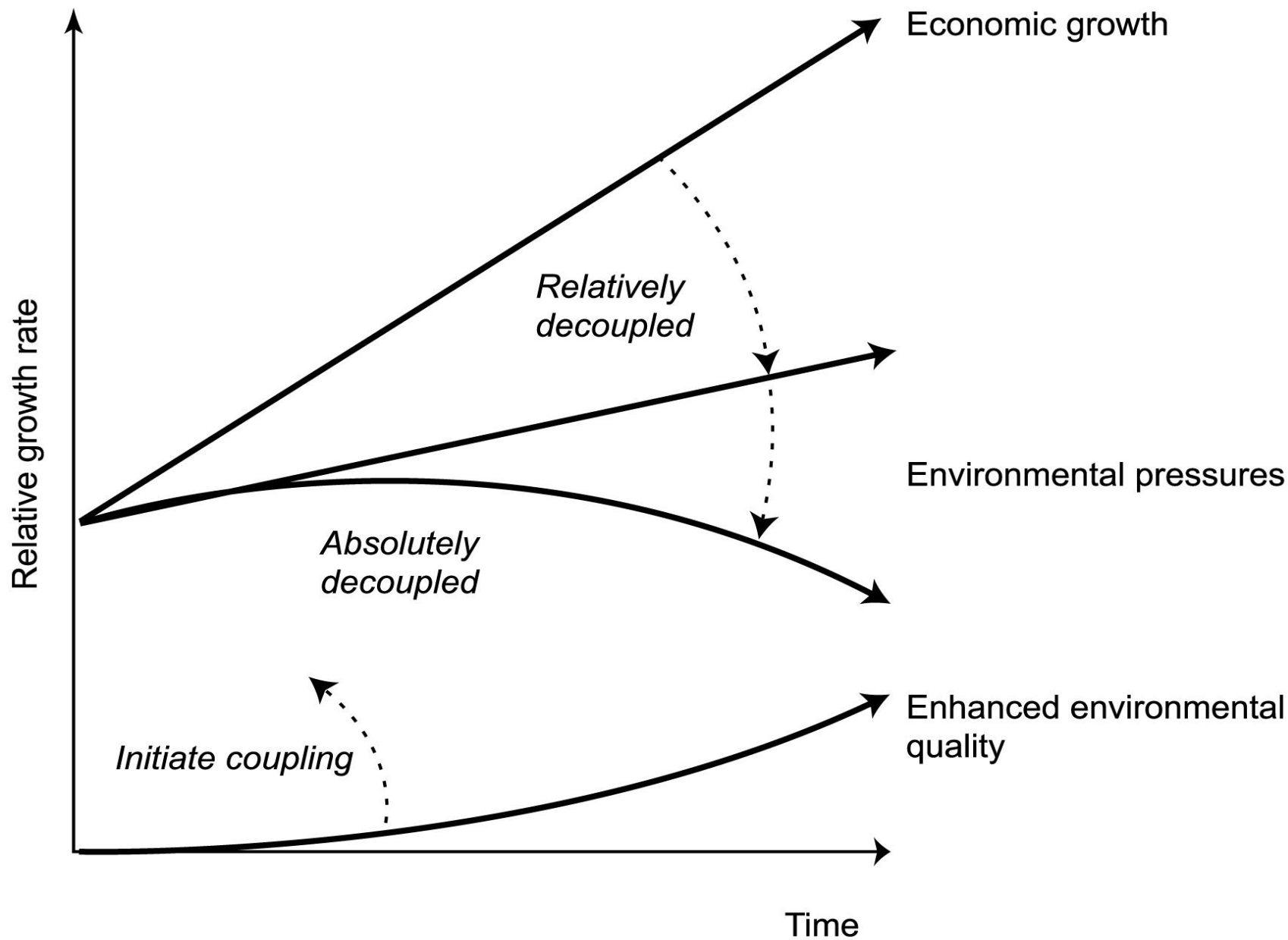
TNEP is supported by a team of early career researchers, the non-profit Project Engineers Australia, mentoring and support from a number of experts and leading organisations locally and internationally, through a peer-to-peer exchange model. TNEP works in partnership with a number of Australian universities including Griffith University, Queensland University of Technology, QUT, Curtin University, and ANU after being incubated by The Institution of Engineers Australia.

Latest News

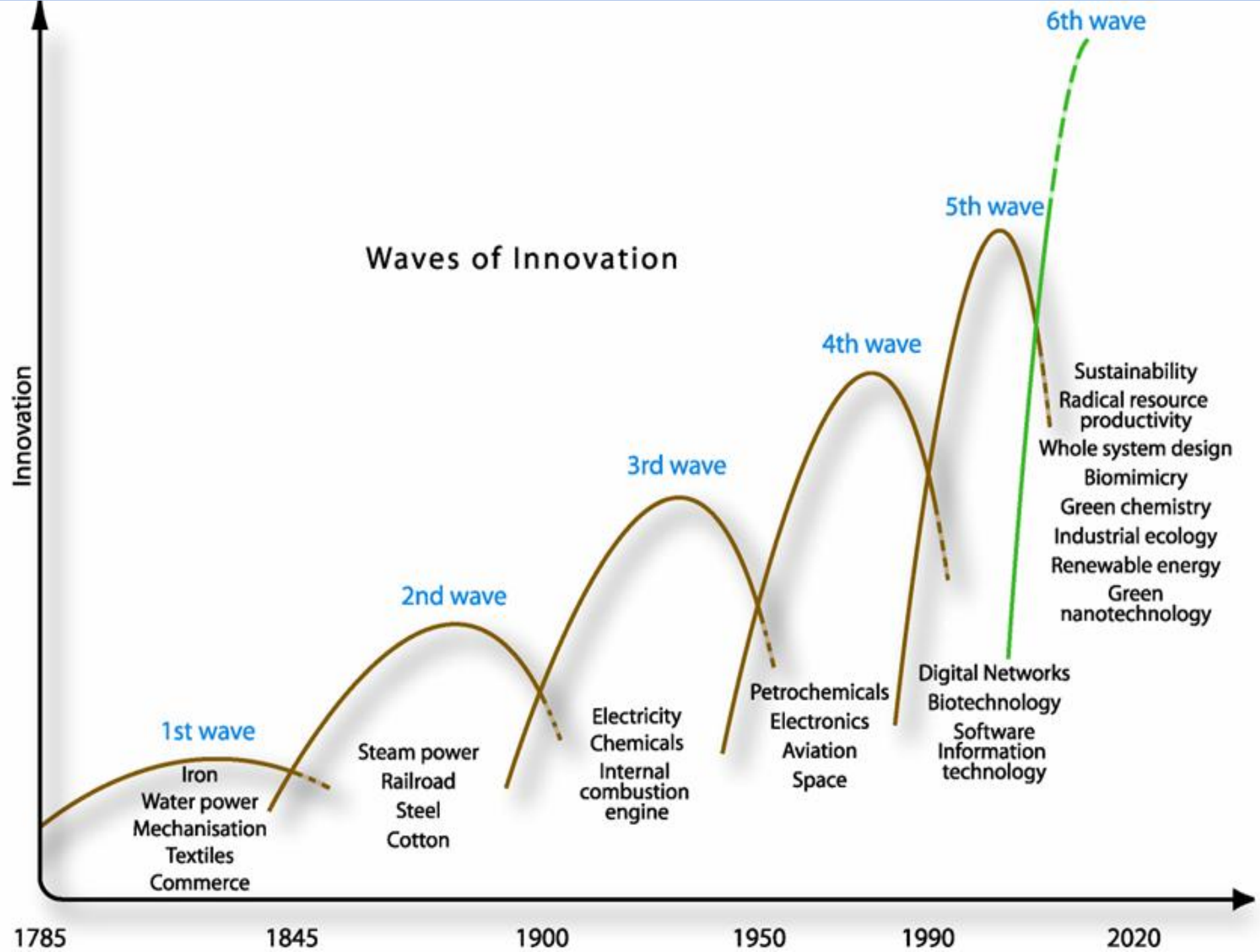
- › ['Sustainable Energy Solutions for Climate Change Mitigation'](#)
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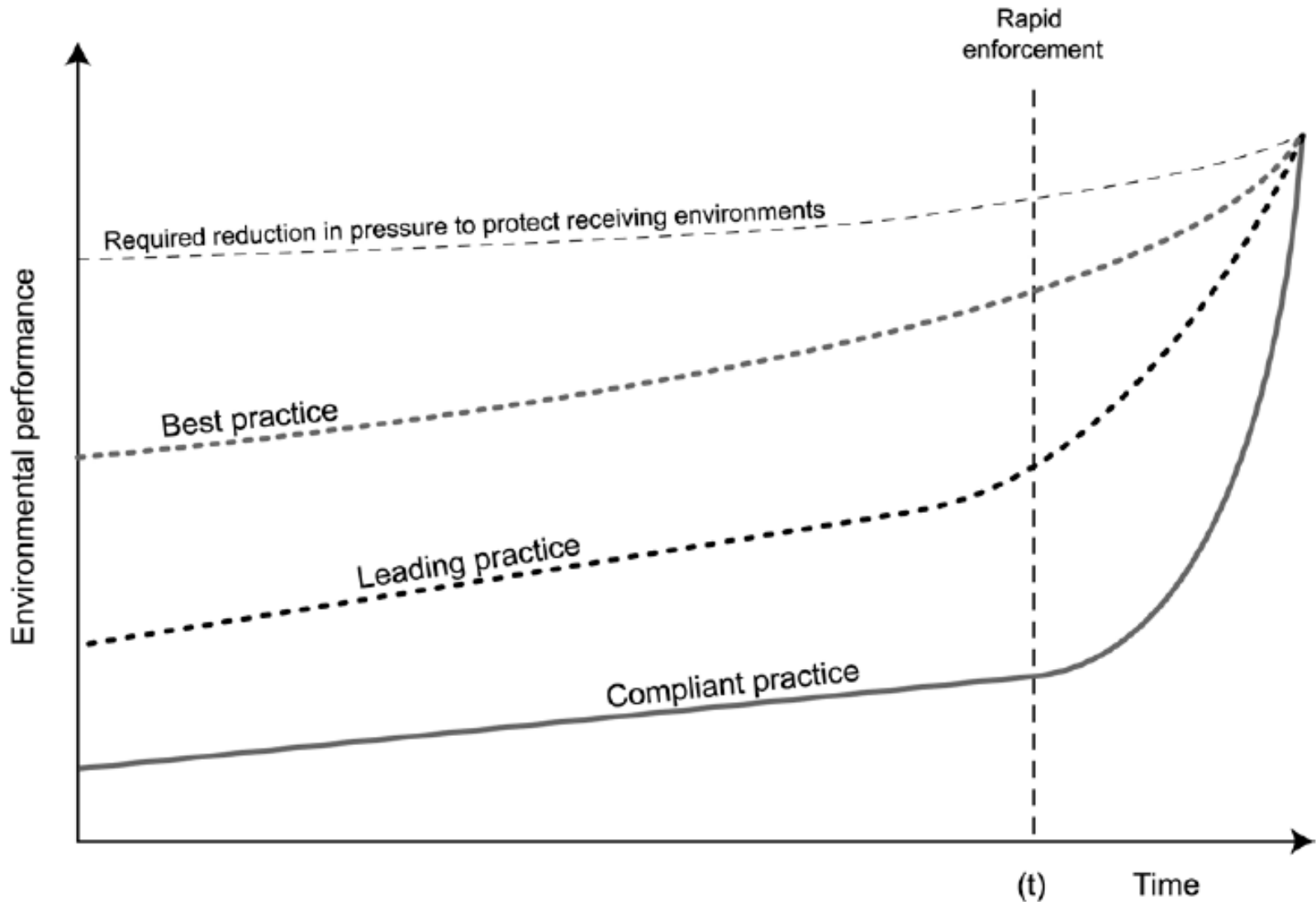




Waves of Innovation



Level of Commitment to Reducing Pressure over Time – 3 Scenarios



Possible Strategies:

National and Regional governance level:

Regulatory measures need to provide clear incentives for performance improvement **beyond minimum benchmark** requirements.

Required use of the standard (for example the Eco-Management and Accounting Scheme in Europe) **coupled with strong regulatory commitment and supporting policy mechanisms.**

Setting **progressively more challenging** minimum benchmarks for eco-efficiency measures, with a tax system that rewards those who exceed the benchmarks.

Possible Strategies:

Sector level:

Use of the standard needs to be **coupled with sector guidelines** that are committed to encouraging supply-chain innovation and international best practice.

This includes **showcasing supply chains** that are actively promoting transformational change in their operations, locally, nationally and internationally through trade promotion.

Market pull – **preferencing suppliers** who are performing on key criteria.

Closed loop value chains, providing increased accountability and a whole-system measurement tool.

Possible Strategies:

Corporate level:

Use of the standard needs to be coupled with **innovative company goals – closed loop thinking** – for reducing energy, water and materials consumption.

Considering EMS as a **critical pathway** towards performance improvement, rather than an add-on.

Elevating sustainability from a technical officer to the boardroom

Research & development for future **competitive advantage**.

... A sound rationale that strategically focuses on achieving ambitious targets – “Turning Awareness into Action”