Sustainability as an Innovation Driver for Project Management

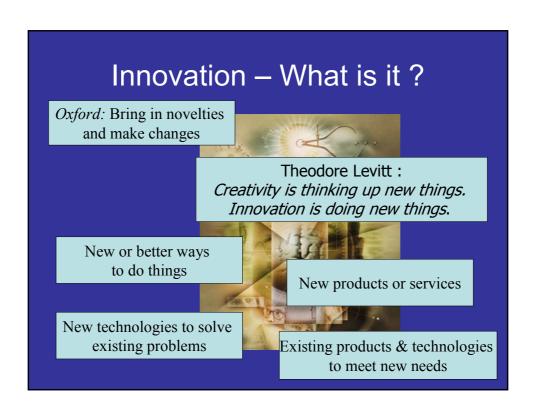
FIG Working Week 2009

Surveyors Key Role in Accelerated Development - Eilat, Israel, 3-8 May 2009

Leonie Newnham, Australia Chair Working Group 1.3, Commission 1

Where is Victoria? Wyside down World Map WORLD FACERE UCLAS Source: http://cultivatedpages.files.wordpress.com/2008/08/upside-down-world-map2.gif







Definition

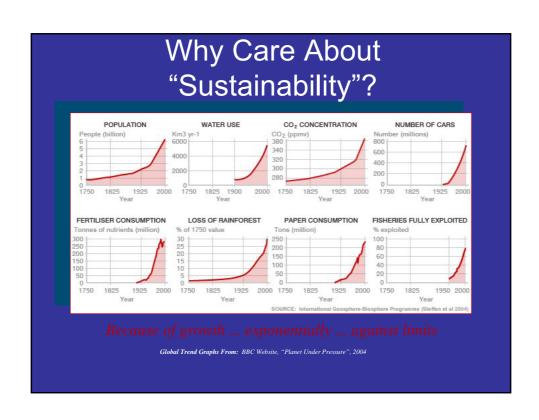
- · sus-tain-a-ble
- Capable of being sustained.
- Capable of being continued with minimal long-term effect on the environment: sustainable agriculture.

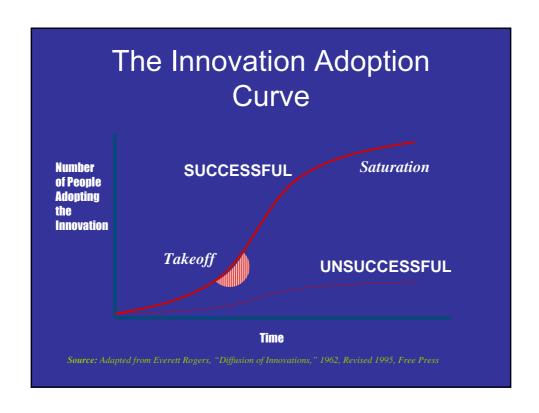
Other influences driving sustainable construction

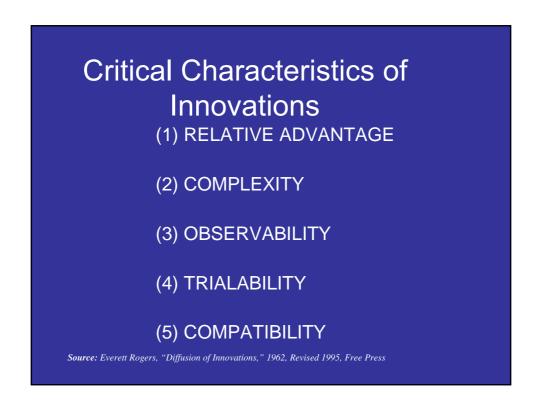
PROFESSION

'Sustainability is now recognised as a key issue which much be addressed in the design, construction and life long maintenance of civil engineering structures. (Long 2007)

- CUSTOMERS
- GOVERNMENT representing community
- PROFIT







The "Gilman Equation": A Strategic Change-Planning Tool

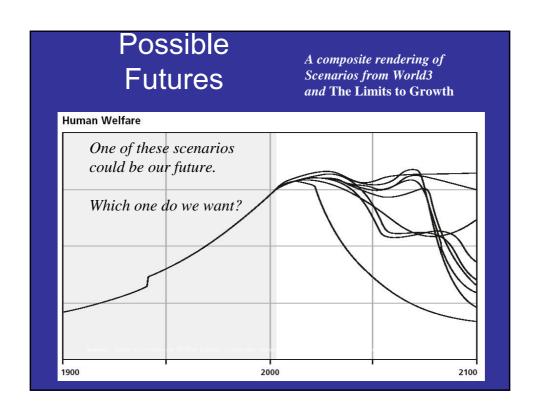
N - O > CC, or ...

Perceived Perceived
Value of the Value of the COST of the NEW Idea OLD Way

Source: Robert Gilman, cited in AtKisson, Believing Cassandra

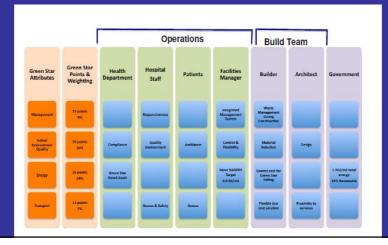
Sustainability as a driver for innovation

- We submit that there is now a critical mass of enabling eco-innovations making integrated approaches to sustainable development economically viable. As reported in Small is Profitable, voted as one of the three best books by the Economist magazine for 2002, 'These developments form not simply a list of separate items, but a web of developments that all reinforce each other. Their effect is thus both individually important and collectively profound.'
- Hargroves and Smith, The Natural Advantage of Nations, 2005



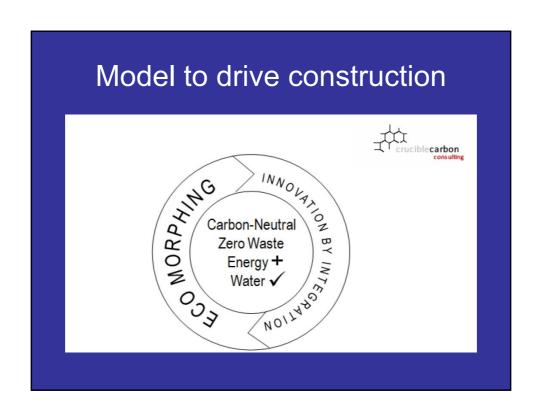


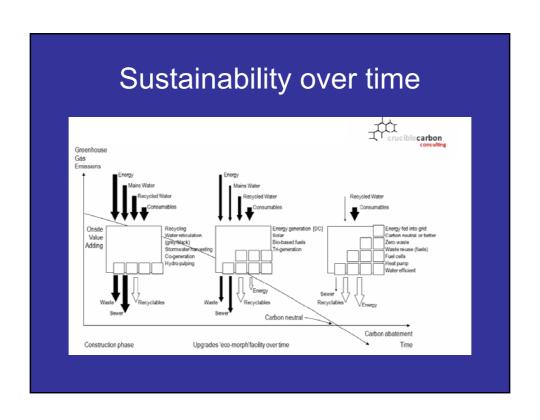
Green Star / stakeholder matrix for a firm specialising in building hospitals

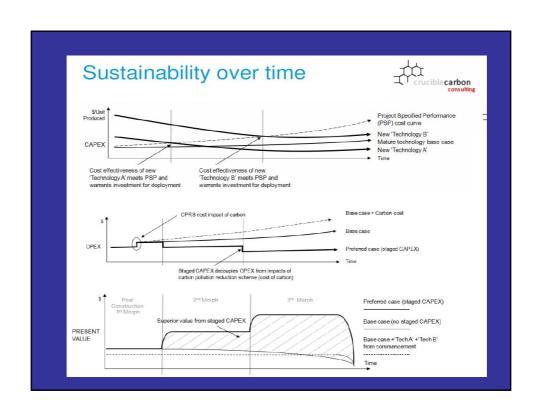


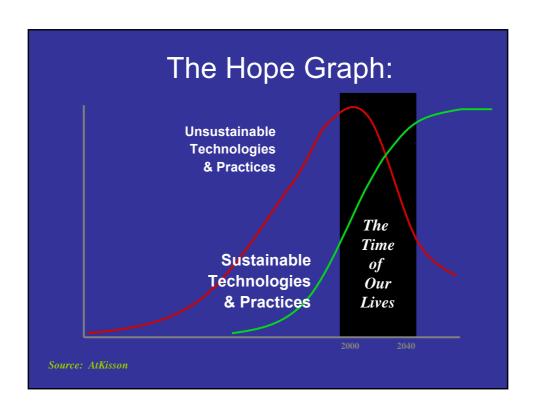
Public Private Partnership Projects – Sustainability Issues

- PPP captures value of delivery over time TODAY
- CAPEX and OPEX tradeoff's are within identified "Whole of Life" cost structure
- Asset performance deteriorates over time
- High utility assets create continued and increased impact on infrastructure
- Maintenance of sustainability OBJECTIVES needs consideration



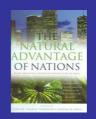






Want more ideas?

- The Natural Advantage of Nations (2005)
- Provides the practical details of building a bright green future providing a critical overview of our progress towards sustainability.
- Provides pragmatic examinations of best-practices in business and government; issue-wrangling essays on profitable green house solutions, greening the built environment and sustainable transportation.



- The Natural Edge Project (TNEP) is a Sustainability Think-Tank based in Australia. TNEP operates as a partnership for education, research and policy development on innovation for sustainable development.
- www.naturaledgeproject.net

Disclaimer: The views in this article are my own and are presented for the purpose of academic and professional Research and do not necessarily reflect the policy of views of the Department of Sustainability and Environment;

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