THE UNIVERSITY OF MELBOURNE

Collaboration: an underutilized resource

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Collaboration: an underutilized resource

- Is there enough agreement that Australia needs to get smarter?
- The pressures continue to mount
- Innovation is the answer, but it doesn't come easily
- How to get the message across on collaboration

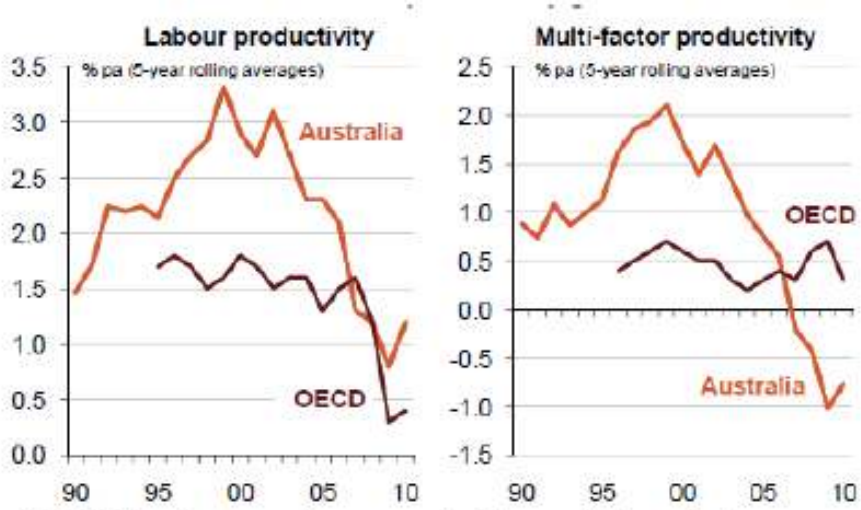
Collaboration: an underutilized resource

Productivity "isn't everything, but in the long run it's nearly everything"

Paul Krugman (1992)
Nobel Prize-winning economist

"Productivity is the prime determinant in the long run of a nation's standard of living, for it is the root cause of per capita national income."

Michael E. Porter (1991)



Note: OECD labour inputs measured as persons employed (as opposed to hours worked).
Sources: ABS; OECD; The Conference Board.

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Chart 1.3: National innovation system input indicators (grouped by activity and OECD ranking). The figure compares Australia with the top 5 OECD countries for each indicator (normalised to 100)

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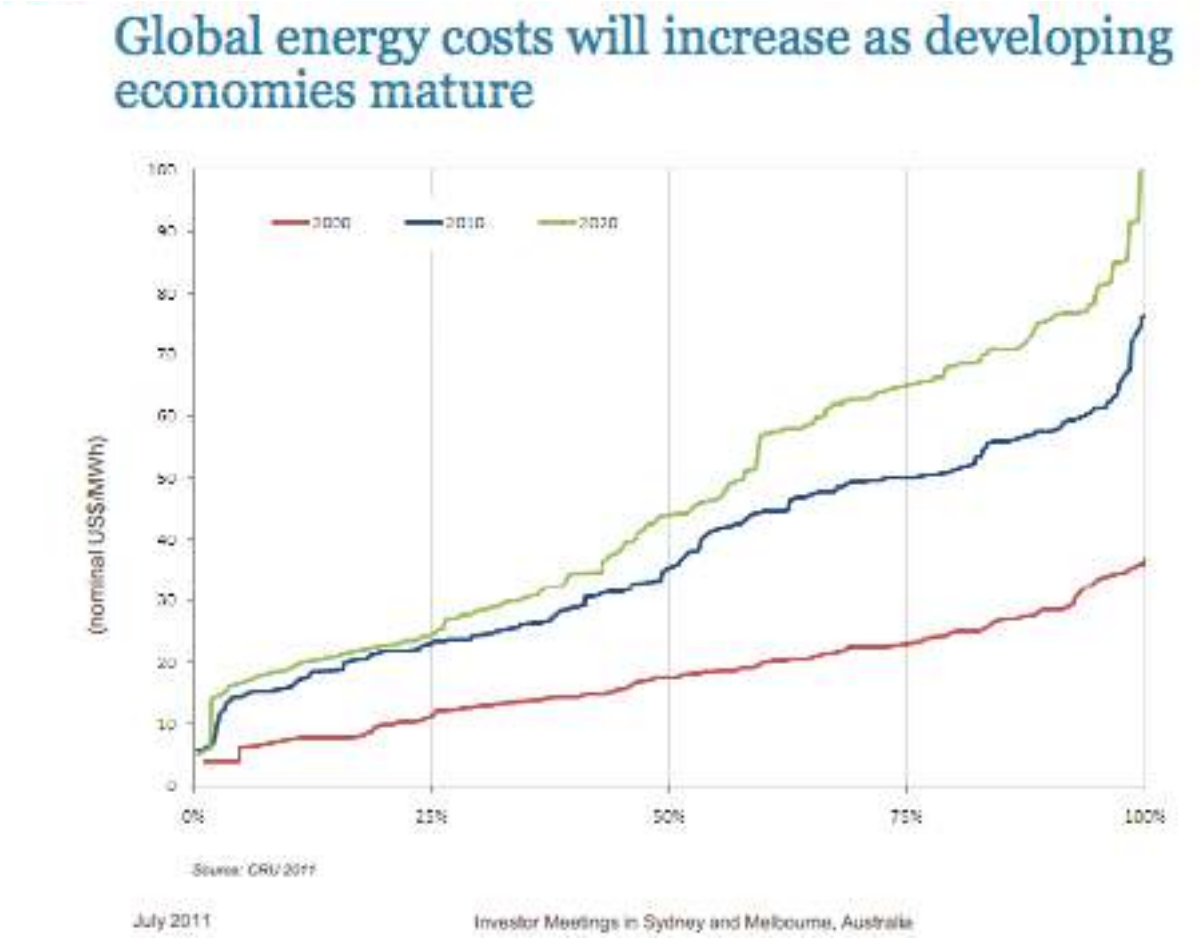

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Let us assume a 28% reduction in total emissions within 40 years.
What levers can we pull?

Now CO2 = P * GDP/P * E/GDP * C/E

So if all take a cut evenly
CO2= .92 * .92 * .92 * .92

More likely
CO2=1.01^40 * .79 * .79 * .79
CO2=1.49 * 1.02^40 * .47 * .47
CO2=1.49 * 2.21 * 1.0 * .22

i.e. We need about and 80% reduction in carbon intensity

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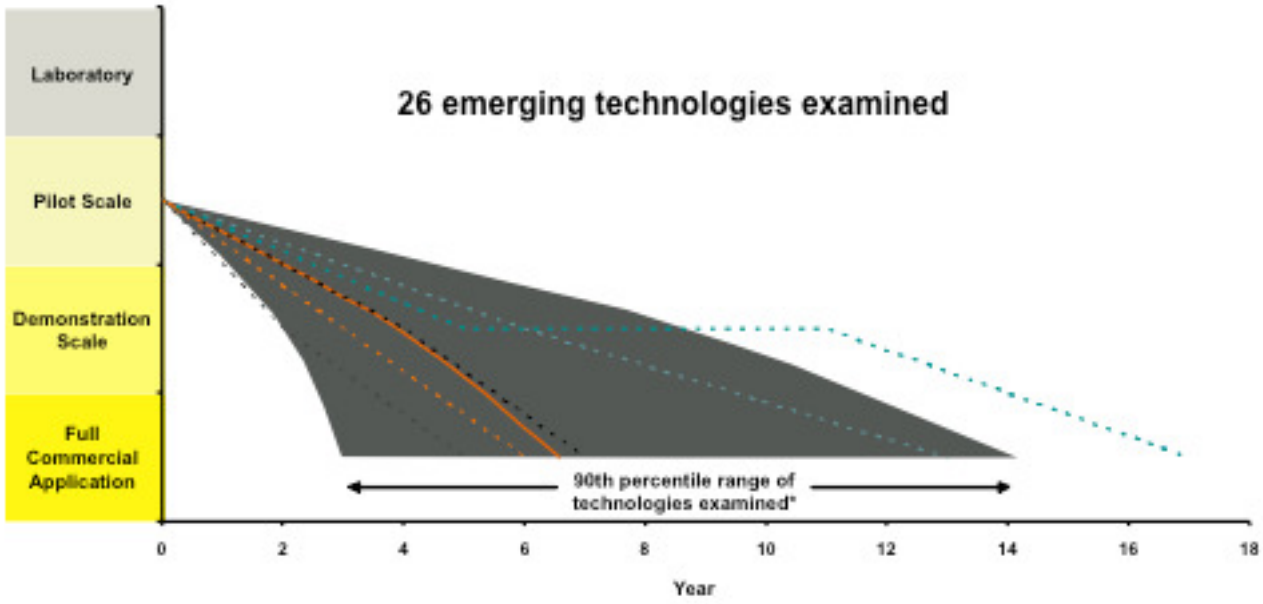
Timeframes: pilot ➔ commercial



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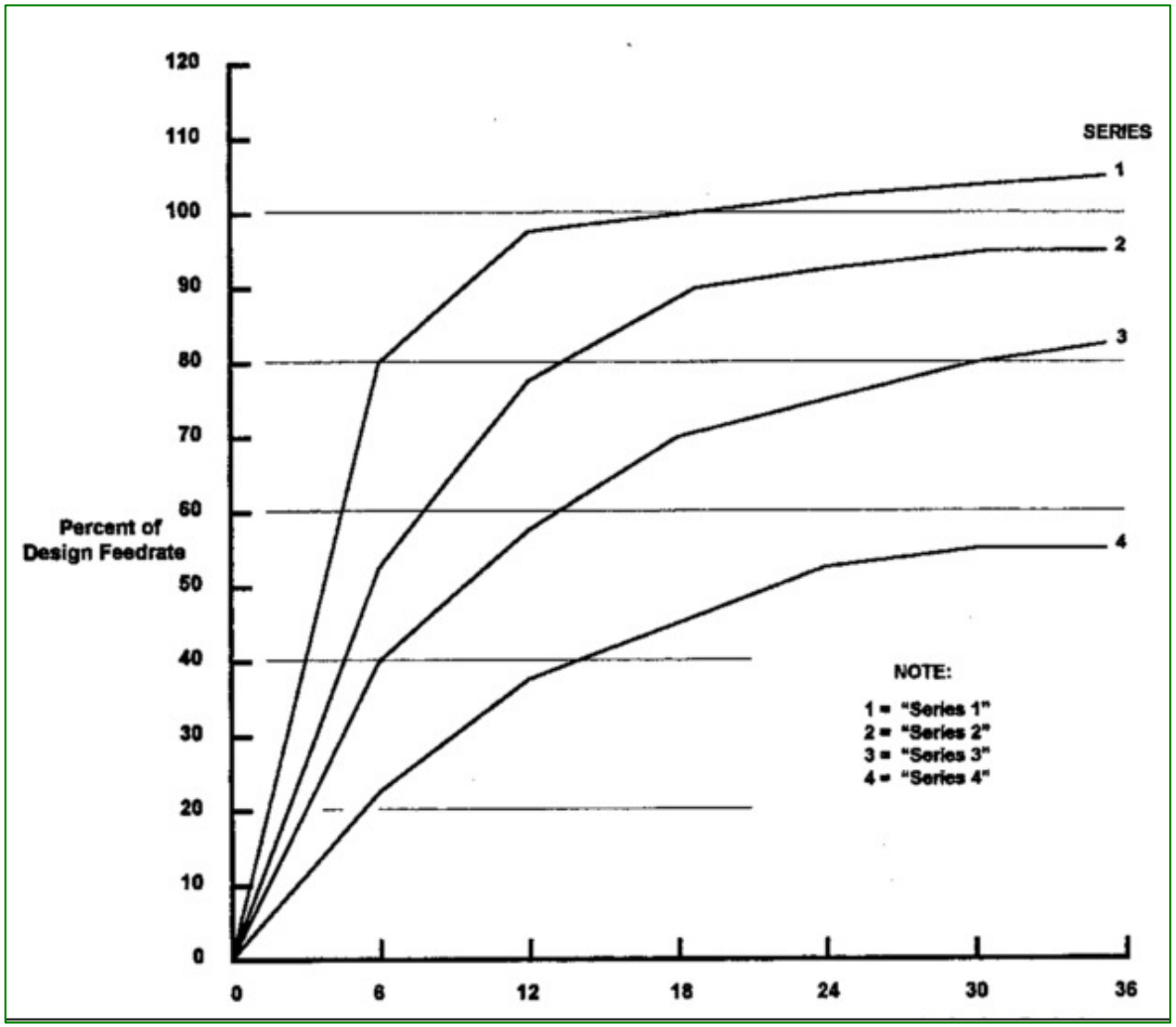
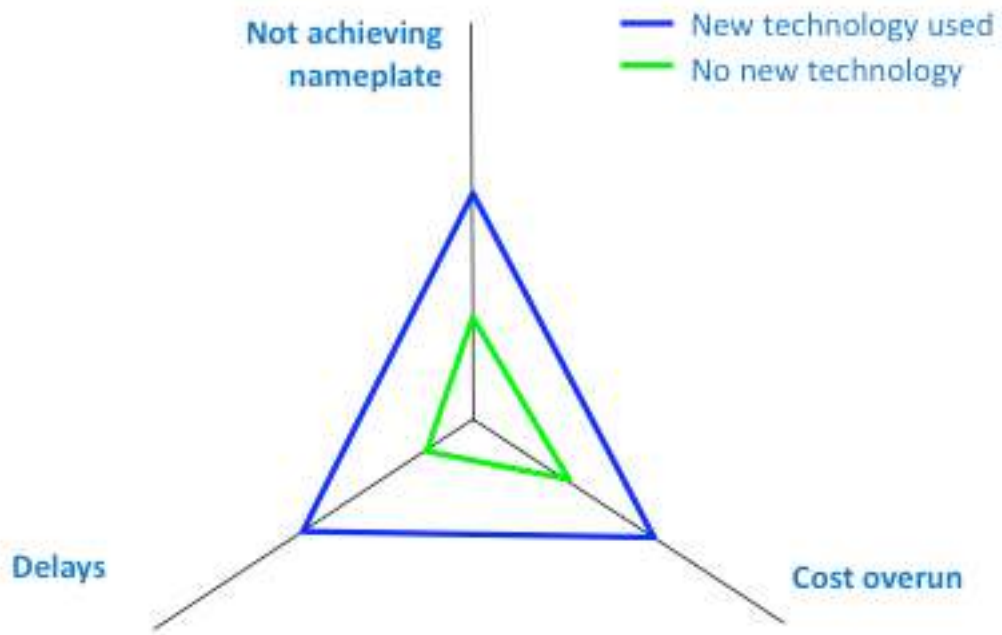


Risk Profiles – How to ameliorate?



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University Commercialization in Australia

A review of current trends, and thoughts on how to achieve long-term success

March 2010

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- Australian companies are trading sovereign risk for innovation
- In recent years, $17bn in feasilbility studies alone for African projects
- 100 more projects last year

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We need to focus on the key message:

Innovation is all about people and how they collaborate.

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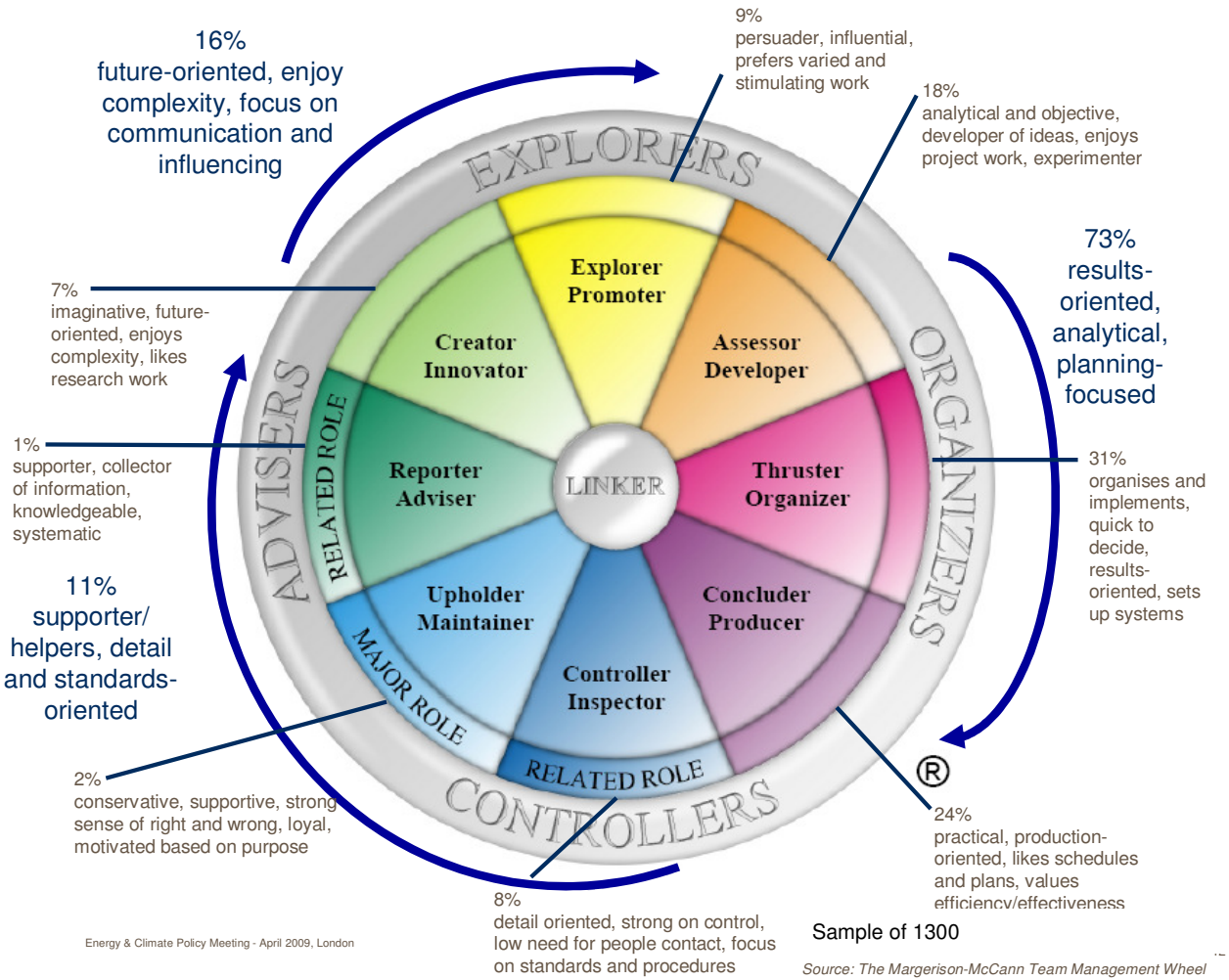

Sample of 1300

Source: The Margerison-McCann Team Management Wheel

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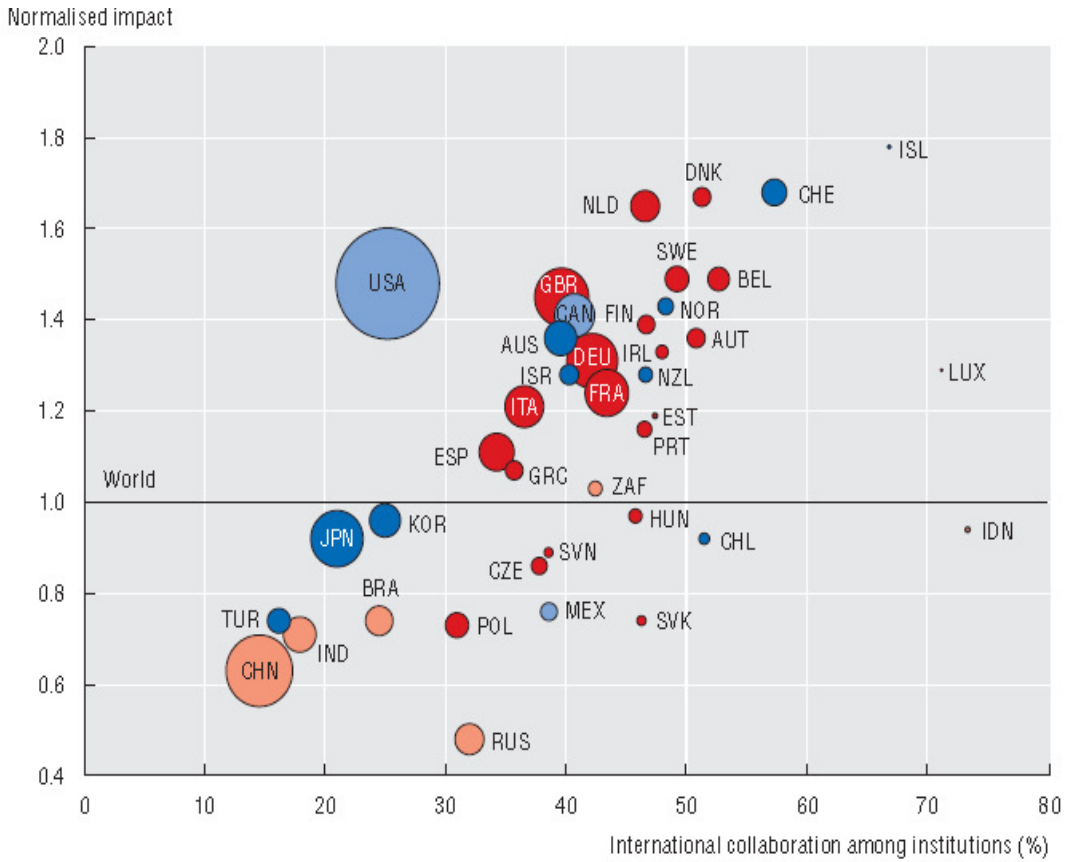

ATSE symposia on Innovation

- How to enhance business – researcher innovation?
- We currently sit near the bottom of the OECD table on business-higher education collaboration
- It should NOT be mainly about commercialization
- There are so many opportunities, eg in geothermal

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"In the long history of humankind (and animal kind, too) those who learned to collaborate and improvise most effectively have prevailed."

Charles Darwin
(1809-1882)

"The most dramatic innovation introduced with the roll-out of our species is not the prowess of individual minds but the ability to harness that prowess across many individuals."

Jason Mitchell

Neuroscientist at Harvard.

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