

30 April 2008
Wellington

Construction 2020: Partnering with Industry to Define the Vision for Australia's Construction Industry


Dr Keith Hampson – CEO
Australian Cooperative Research Centre (CRC)
for Construction Innovation





Structure

1. Australia's CRC for *Construction Innovation*
2. Construction 2020 process
3. Lessons for the Future ...



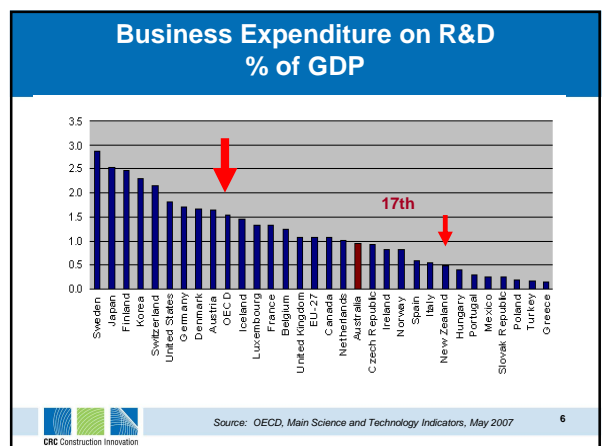
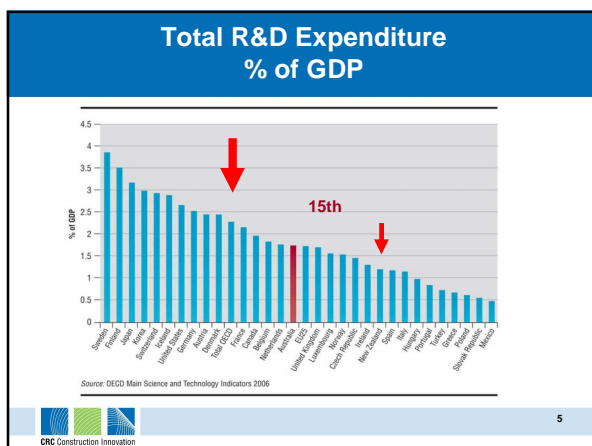
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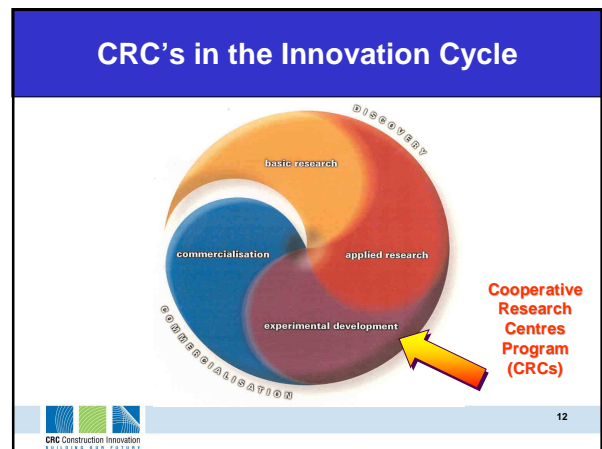
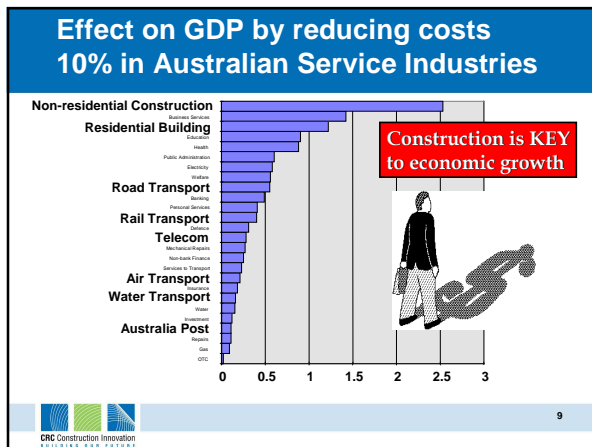
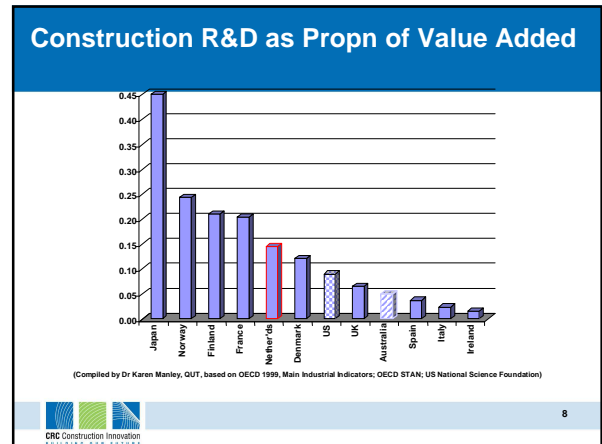
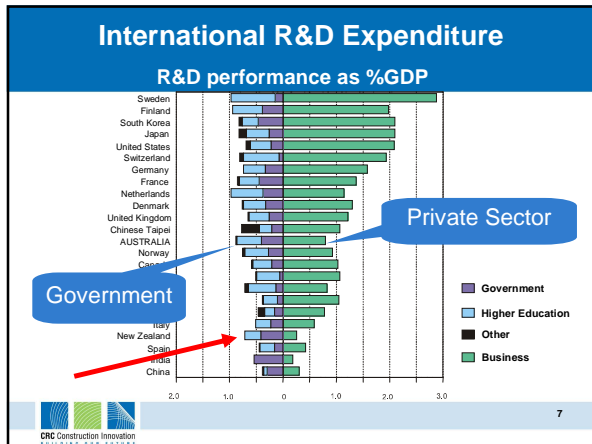
1. CRC for *Construction Innovation*

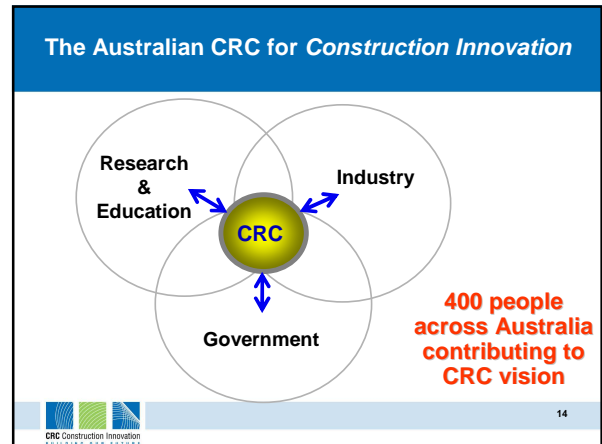
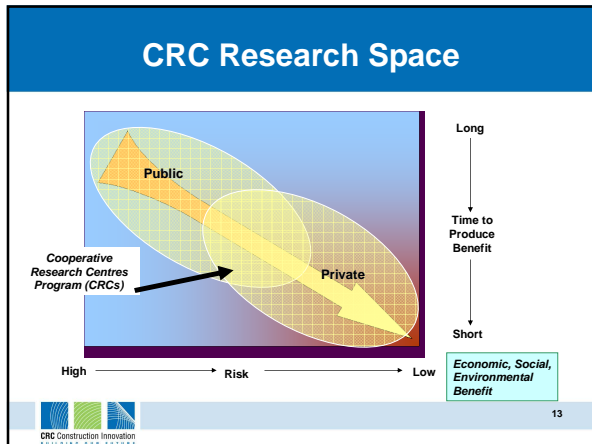
... First – some context ...



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Our CRC Vision

To lead the Australian property, design, construction and facility management industry in collaboration and innovation

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- ### Public-private partnerships in R&D
- Build networks of industry, government and researchers for applied outcomes
 - Research skills training for industry
 - Respond to industry challenges with national and international partnerships
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Working collaboratively

Industry	Government	Research

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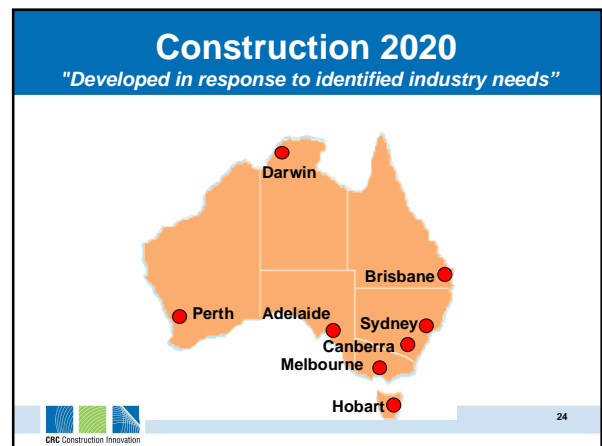
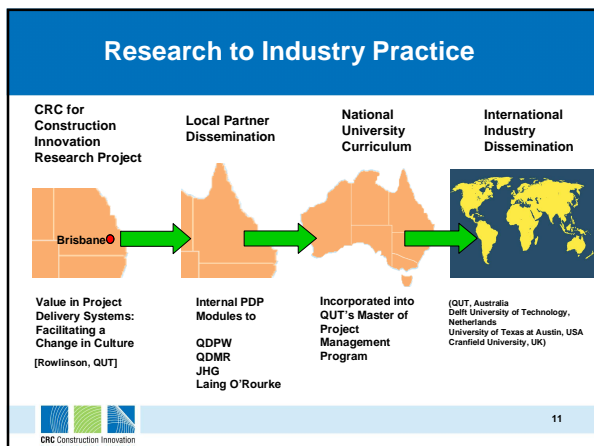
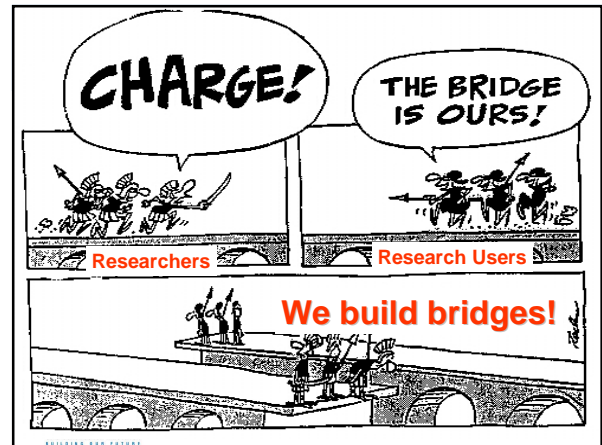
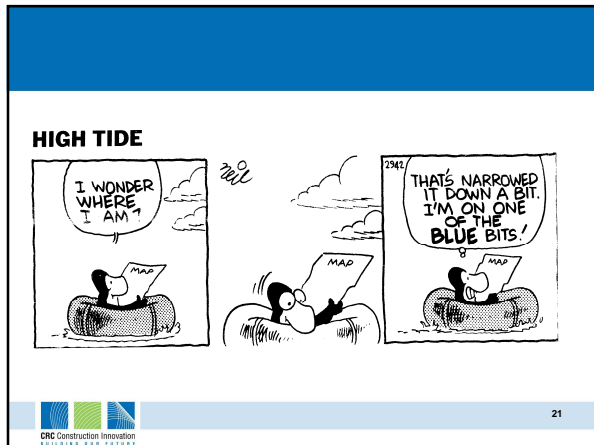
Industry Associations

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2. Construction 2020 process

CRC Construction Innovation



Property and Construction Sector


- Contribution to GDP = 14%
 - Growing at 3% pa
- Sector income A\$100 billion
- Highly fragmented
 - 250,000 firms employing 1 million people
 - 94% of businesses employ less than 5 people
- Australian Action Agenda supported formation of CRC to service property and construction



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Construction Innovation

- A\$64M in cash and in-kind over 7 years
- Government, industry and research partners
 - 19 participants nationally – now 28!
 - 400 people involved = 70 EFTS
- Headquartered at QUT in Brisbane
 - 6 centres nationally
- First of its kind in construction in Australia
 - Civil and building construction



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Construction 2020

Why is it important?




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C2020 – Engagement, Research Focus and Technology Transfer




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- Policy context



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- National Building and Construction Committee (NatBACC) - 1999
- Building for Growth Action Agenda – 2000
 - Called for national research centre to serve industry



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Facilities Management Action Agenda (2004)

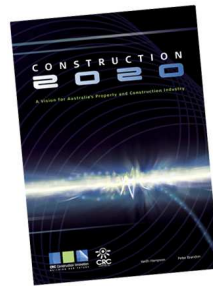


1. Innovation
2. Education & Training
3. Regulation
4. Sustainability

CRC Construction Innovation
TECHNOLOGY PARTNERS

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Construction 2020 (2004)



1. Environmentally sustainable construction
2. Meeting client needs
3. Improved business environment
4. Welfare and improvement of the labour force
5. Advanced information and communication technologies
6. Virtual prototyping for design, manufacture & operation
7. Off-site manufacture
8. Improved construction processes

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"To create real change in this world, you have to have a vision, and you have to have enormous perseverance."

Marguerite W Sallee, Chair and CEO of Frontline Group

CRC Construction Innovation
TECHNOLOGY PARTNERS

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Outcomes of C2020

- Through consultation, capture and define vision of where Australian construction is heading
- How *Construction Innovation* can lead applied research and implementation to achieve this vision
- Industry-focused report for distribution
- Disseminated through national seminars
- Political engagement

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Industry dissemination



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Construction 2020 Visions

1. Environmentally sustainable construction
2. Meeting client needs
3. Improved business environment
4. Welfare and improvement of the labour force
5. Information and communication technologies for construction
6. Virtual prototyping for design, manufacture and operation
7. Off-site manufacture
8. Improved process of manufacture of constructed products



CRC Construction Innovation
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ACIF Membership

1. Air Conditioning & Mechanical Contractors Association
2. Association of Consulting Architects Australia
3. Association of Consulting Engineers Australia
4. Australian Institute of Building
5. Australian Institute of Construction
6. Construction Industry Institute of Australia
7. Engineering Council of Australia
8. Master Builders Australia
9. National Planning and Communications Association
10. Planning Institute of Australia
11. Property Council of Australia
12. The Australian Institute of Architects
13. The Royal Australian Institute of Architects

200,000 members
across Australia

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Engage with Industry and Research Leaders



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3. Lessons for the Future ...

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Construction Industry Vision

- It's about the process of engagement
- Need champions
- Get *them* into the tent
- Be relevant, be mainstream, be credible
- Deliver real outcomes
- Communicate with stakeholders
- Be active politically
- It's about the process of engagement

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- The Future ...

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**Sustainable
Built Environment CRC**

Transforming the infrastructure and property industry through digital and process technology improvement

Outcomes for industry and the community

Environmental


1. Environmental impact of new and existing stock

Social

2. Health and safety
3. Skills development

Economic

4. Procurement
5. Productivity



National measurement and reporting — national frameworks

