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Brisbane Research Symposium

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Cooperative Research Centre (CRC) for *Construction Innovation*



CRC Construction Innovation
BUILDING OUR FUTURE

Cooperative Research Centre (CRC) for *Construction Innovation*

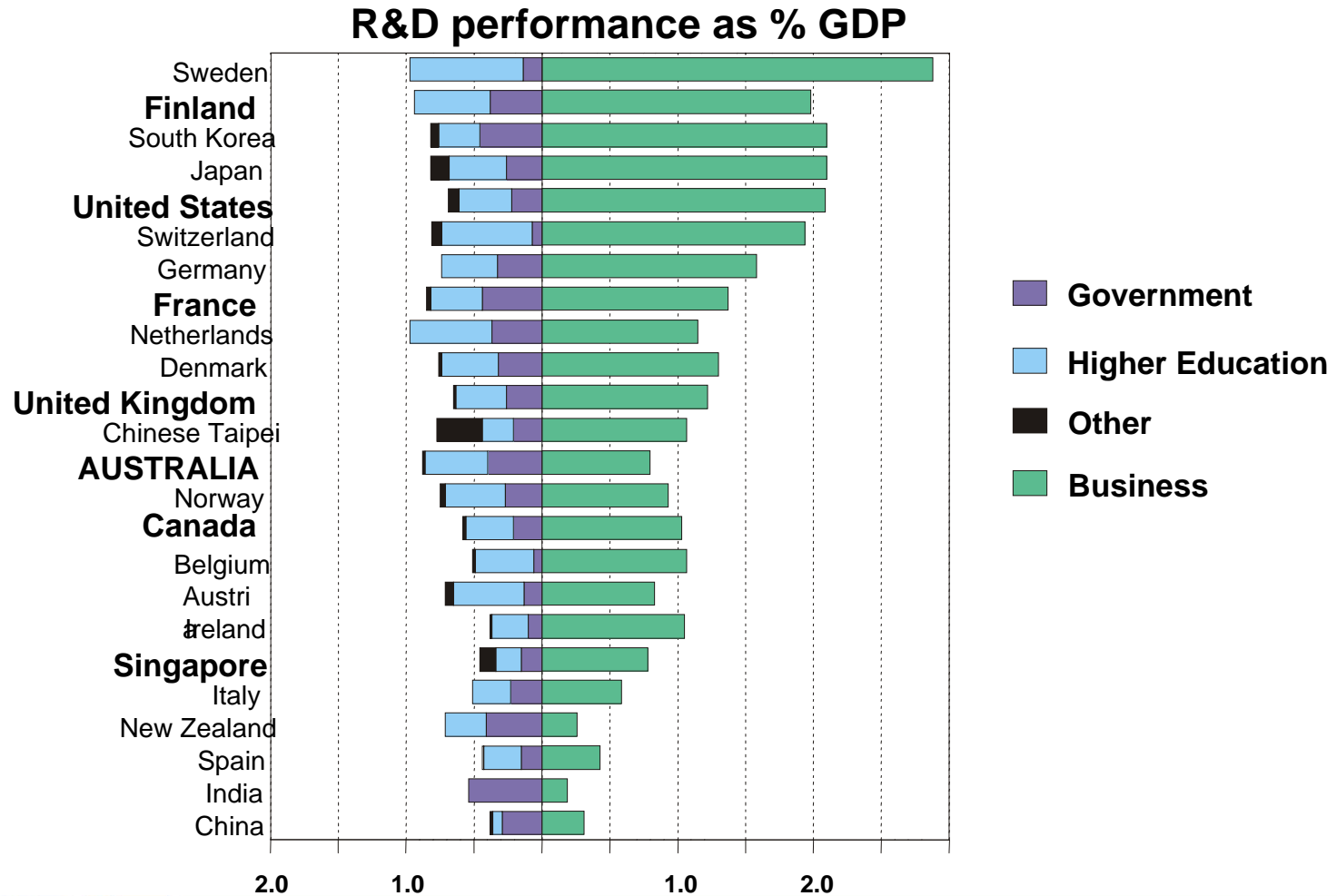
- International context of R&D
- Construction Innovation background
 - Current Safety Focus
 - Future Safety Focus
- Benefits of research in this industry



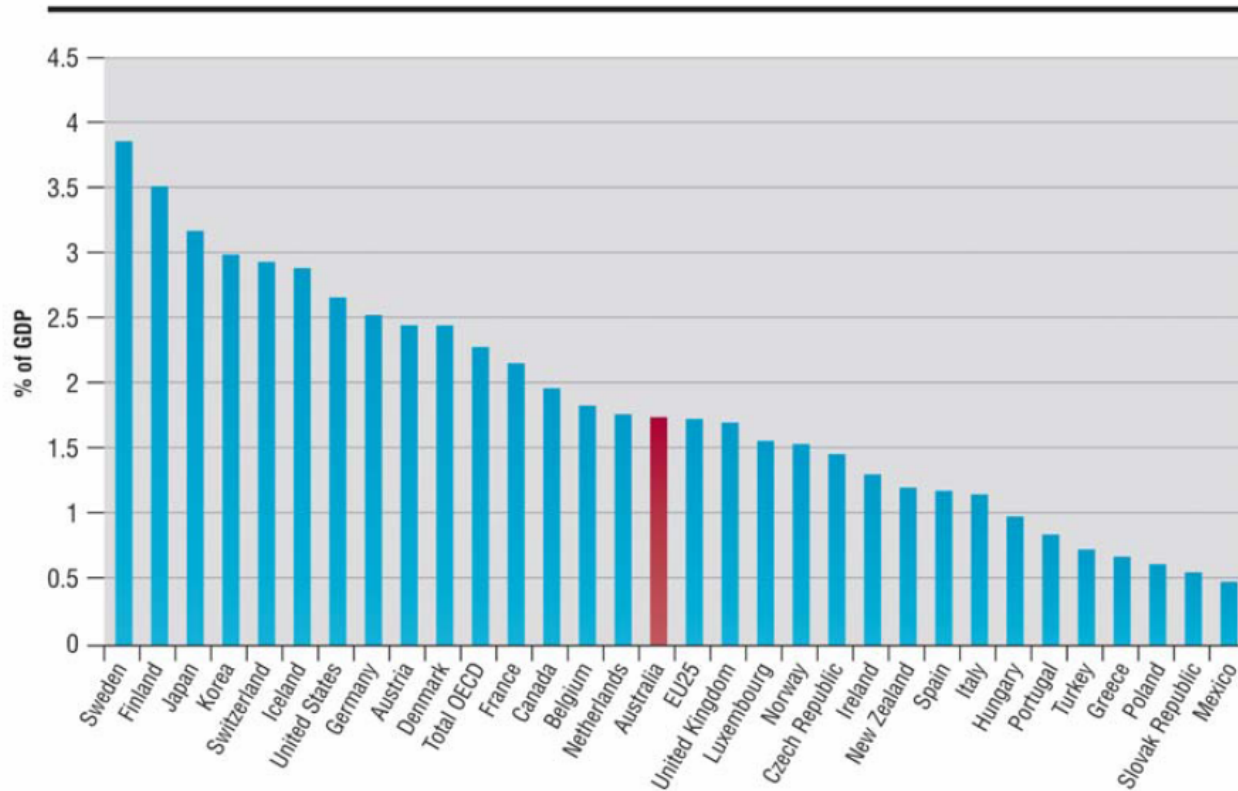
Why R&D in Construction



International R&D Performance



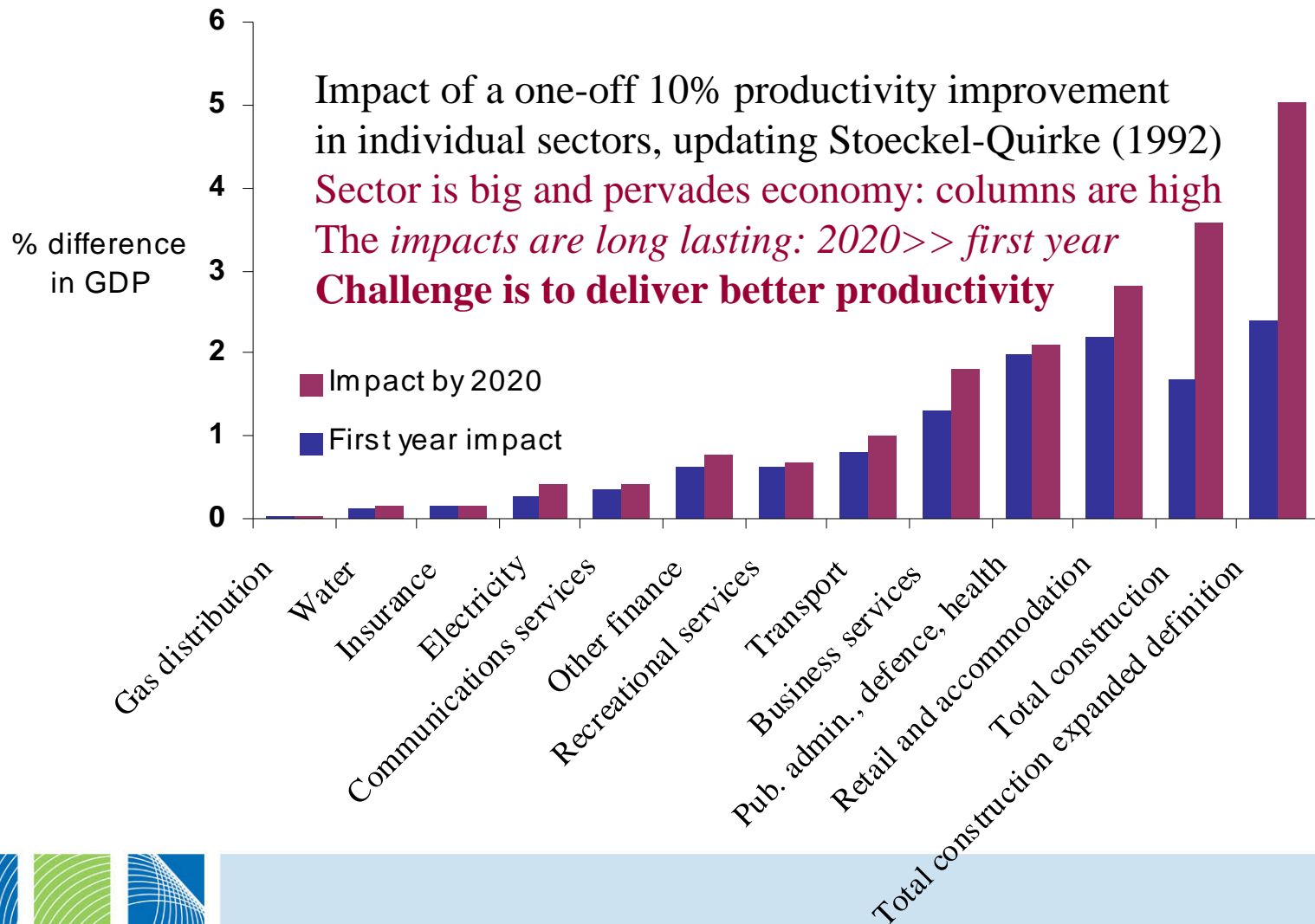
Gross domestic expenditure on R&D in OECD countries



Source: OECD Main Science and Technology Indicators 2006



Construction Innovation Matters



Design, Construction, Property and FM Industry

- **Strong multiplier linkages – mining and transport**
- **Macro economic multipliers:**
 - a one-off sustained 10% improvement in productivity is assumed in each service sector
 - the construction sector will have the biggest average annual impact on GDP, at 3% over 20 years (2000-2020)
- **Construction Sector Contributes 20% of GDP (including FM)**
- 1 in 5 dollars generated in the Australian economy is generate by the AEC-FM industry.



Design, Construction, Property and FM Industry

- **Growing at average rate of 2.6% pa**
- **Sector income A\$130 billion**
- **Highly fragmented**
 - **230,000 firms employing 730,000 people**
 - **94% of businesses employ less than 5 people**
- **Federal Government Action Agenda clearly supported formation of CRC to service property and construction**



CRC for *Construction Innovation*



Our Vision



**To lead the Australian property
and construction industry in
collaboration and innovation**



Participants in the CRC for *Construction Innovation*



Public-Private Partnerships in R&D

- **Build innovative networks of industry, government and research**
- **Attract and mobilise resources**
- **Research skills training**
- **Respond to global challenges with national and international partnerships**
- **Implementation to make a difference**

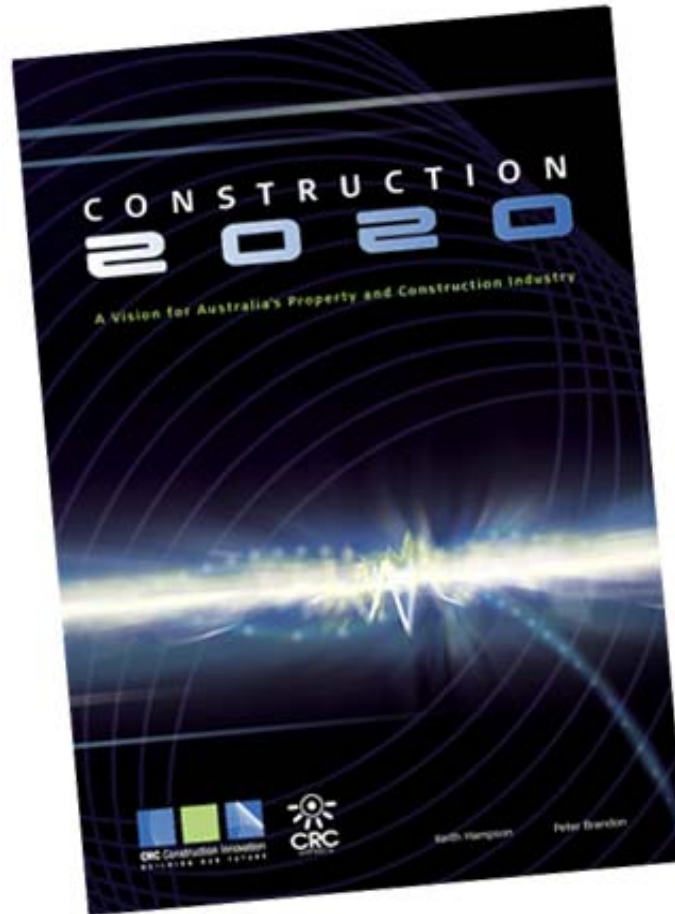


CRC for *Construction Innovation*

- **A\$64M in cash and in-kind over 7 years**
- **Government, industry and research partners**
 - 21 participants nationally
 - 400 people involved = 60 EFTS
- **Headquartered at QUT in Brisbane**
 - 6 centres nationally
- **Only one of its kind in construction in Australia**
 - Building, Infrastructure and FM



National Vision



Future *Construction Innovation*

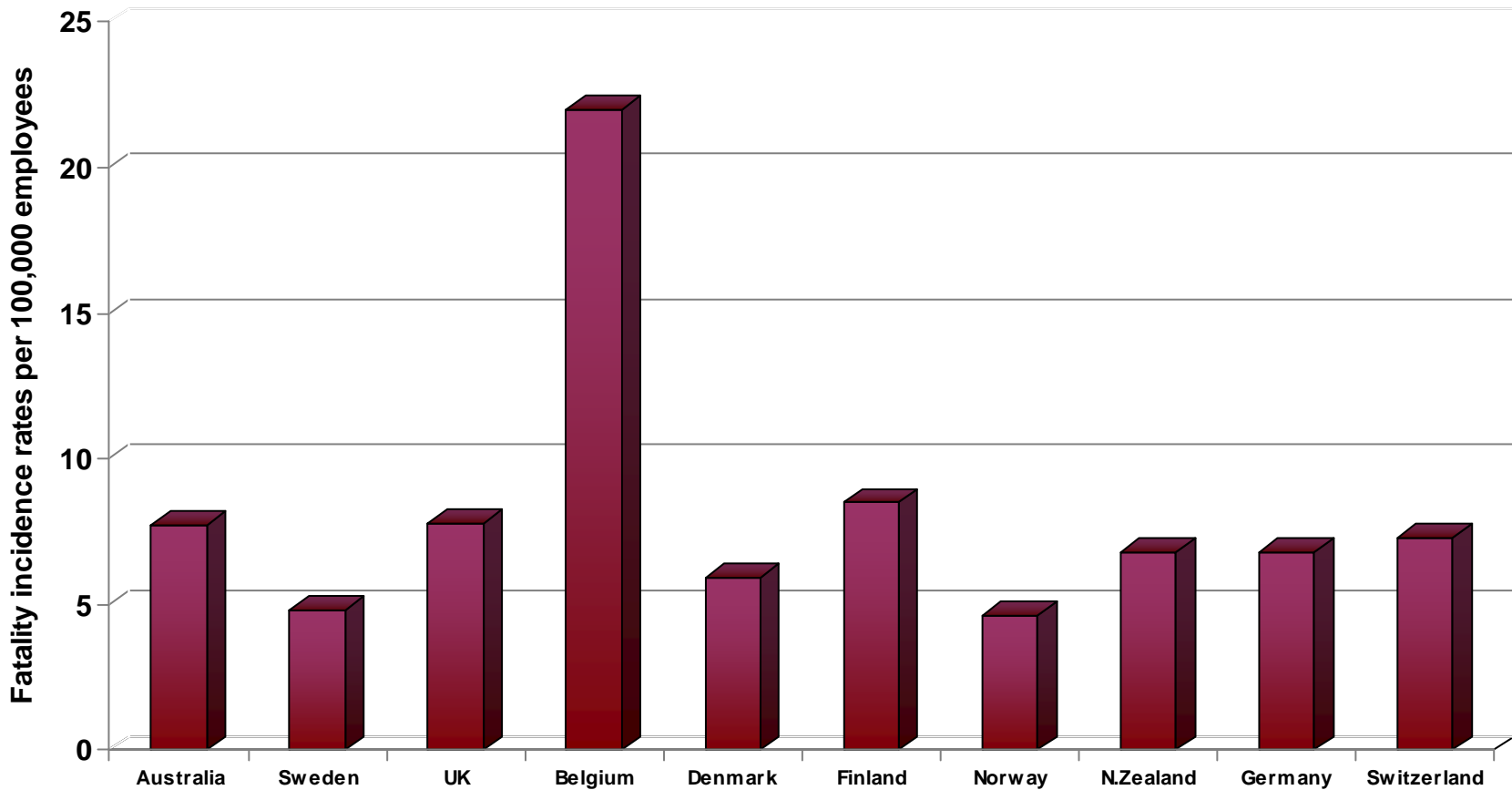
- **Increase in number of participants from 21 to 27 Partners including:**
 - **Thiess**
 - **Leighton Contractors**
 - **Mirvac**
 - **Transfield Services**
 - **Sydney Opera House**
 - **Nexus Point**
- **Additional research program to June 09**



Industry Benefit through our Safety Initiatives



Safety - Comparison of fatality incident rates per 100,000 construction industry employees 1998-99 to 2001-01



Safety Statistics - Australia

Construction site labour makes up:

- **8% of the Australian workforce**
- **accounts for 15% of all fatalities in the workplace.**



Safety Initiatives

- 1. Innovation in Workplace Safety**
- 2. Safer Construction - A snapshot of the Voluntary Code of Practice**
- 3. Safety in a Regulatory Environment**
- 4. Construction Site Safety Culture - 39 critical competencies**
- 5. Construction Safety Competency Toolkits
Developing a safety culture**

