



12 November 2003
Brisbane

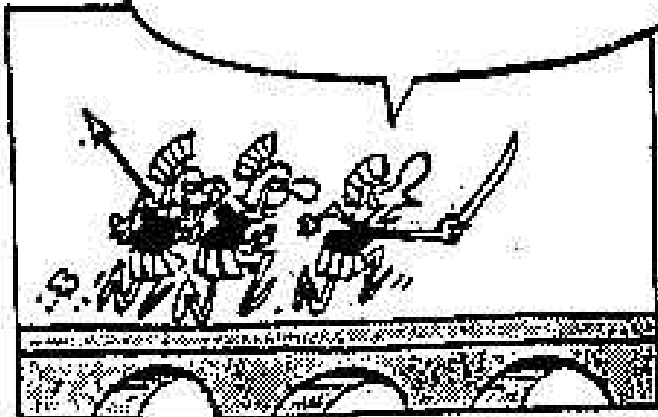
Construction 2020

John McCarthy – Chair

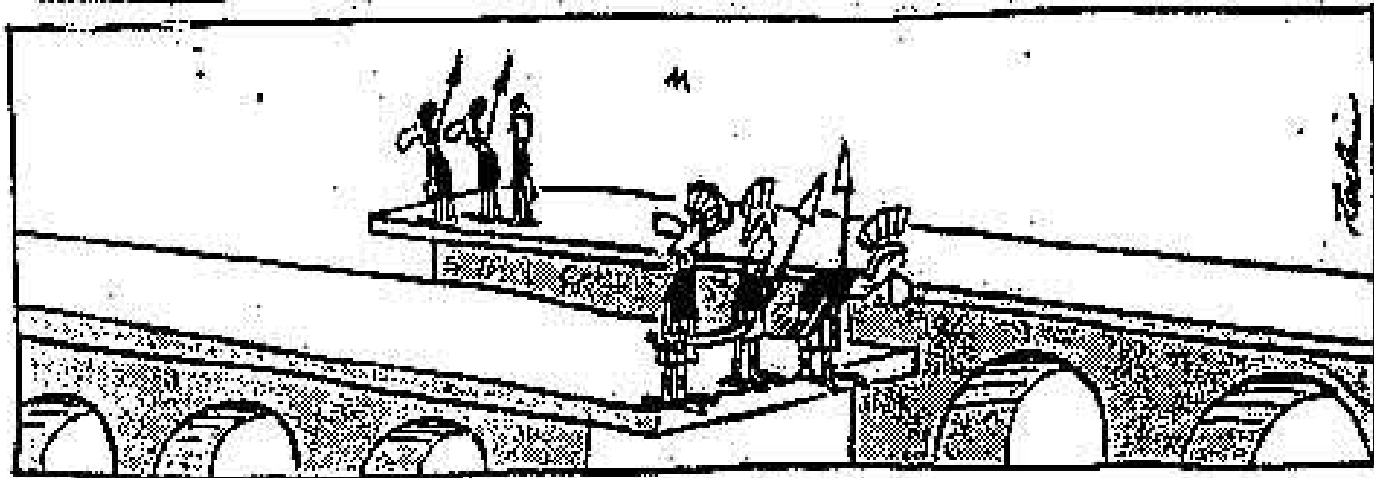
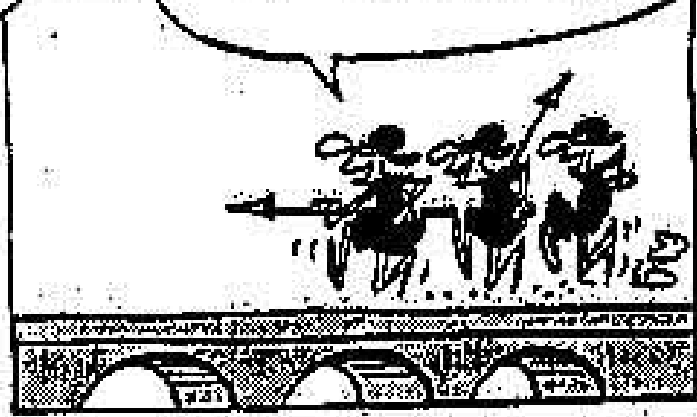
Dr Keith Hampson – CEO

**Cooperative Research Centre
for Construction Innovation**

CHARGE!



**THE BRIDGE
IS OURS!**



Property and Construction Sector

- Contribution to GDP = 14%
- Growing at average rate of 2.6% pa
- Sector income A\$90 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

Effect on GDP by reducing costs 10% in Australian Service Industries

Non-residential Construction

Residential Building

Road Transport

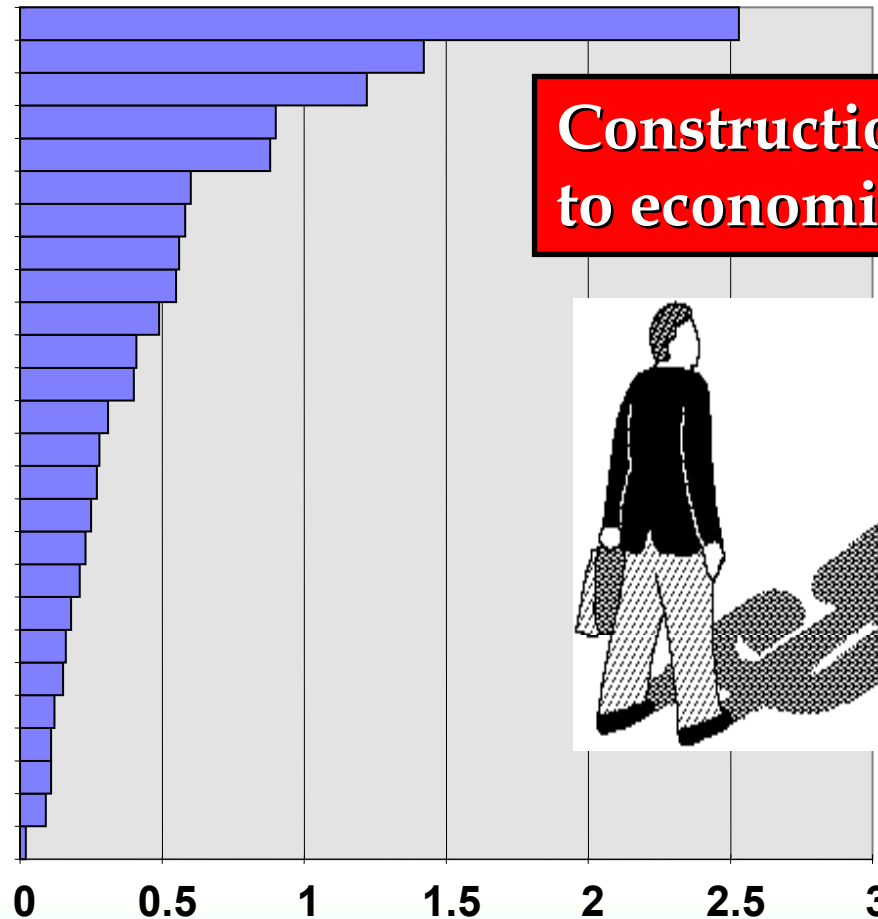
Rail Transport

Telecom

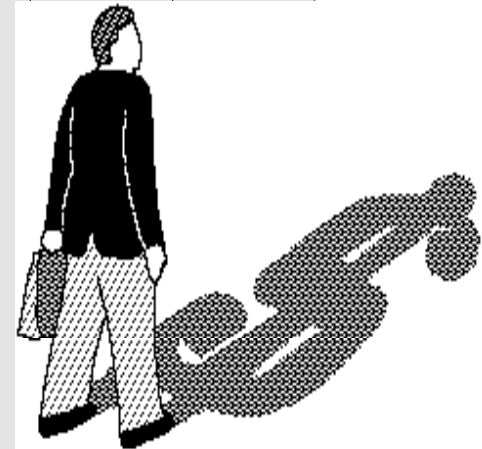
Air Transport

Water Transport

Australia Post



**Construction is KEY
to economic growth**

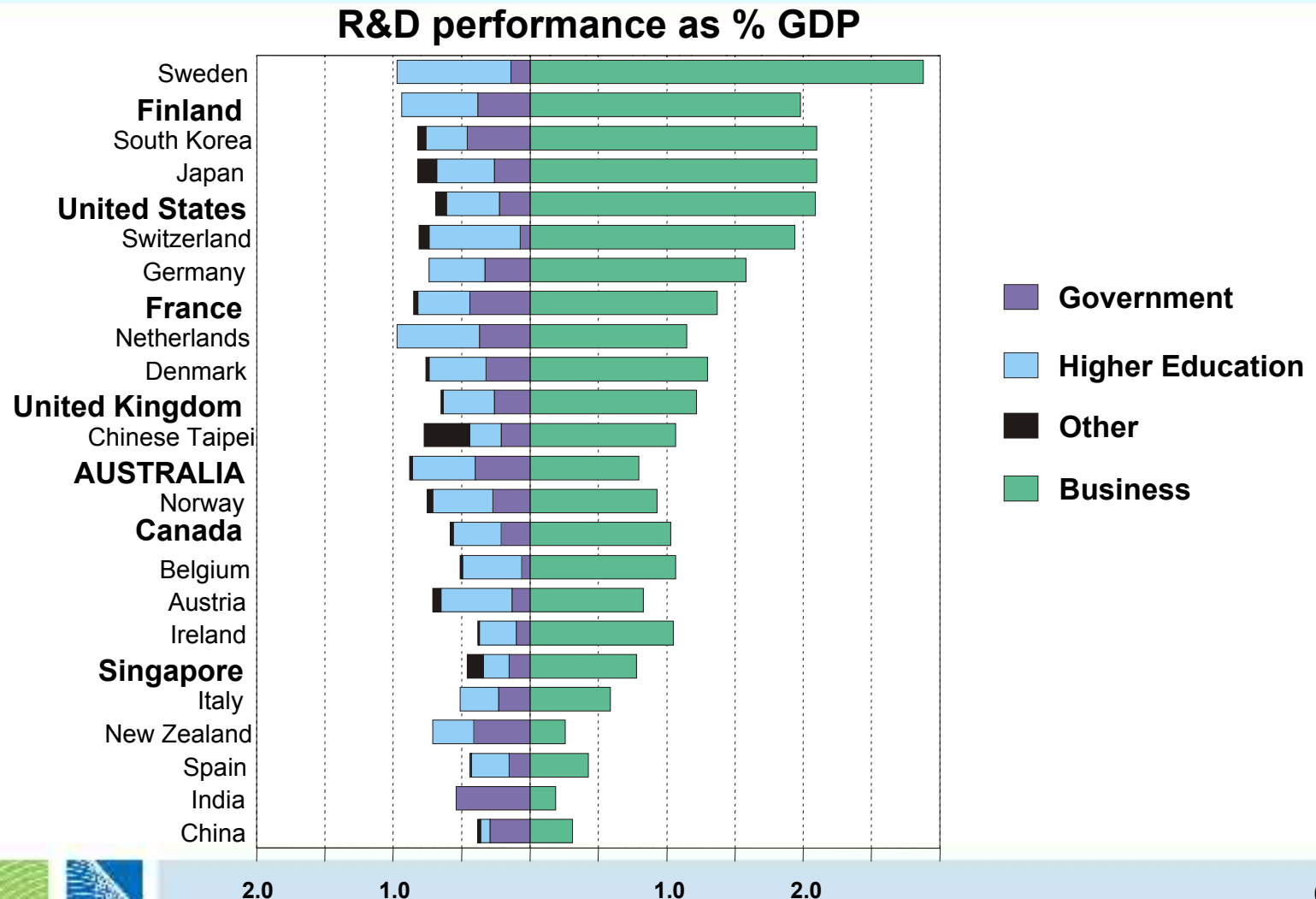


What are CRC's?

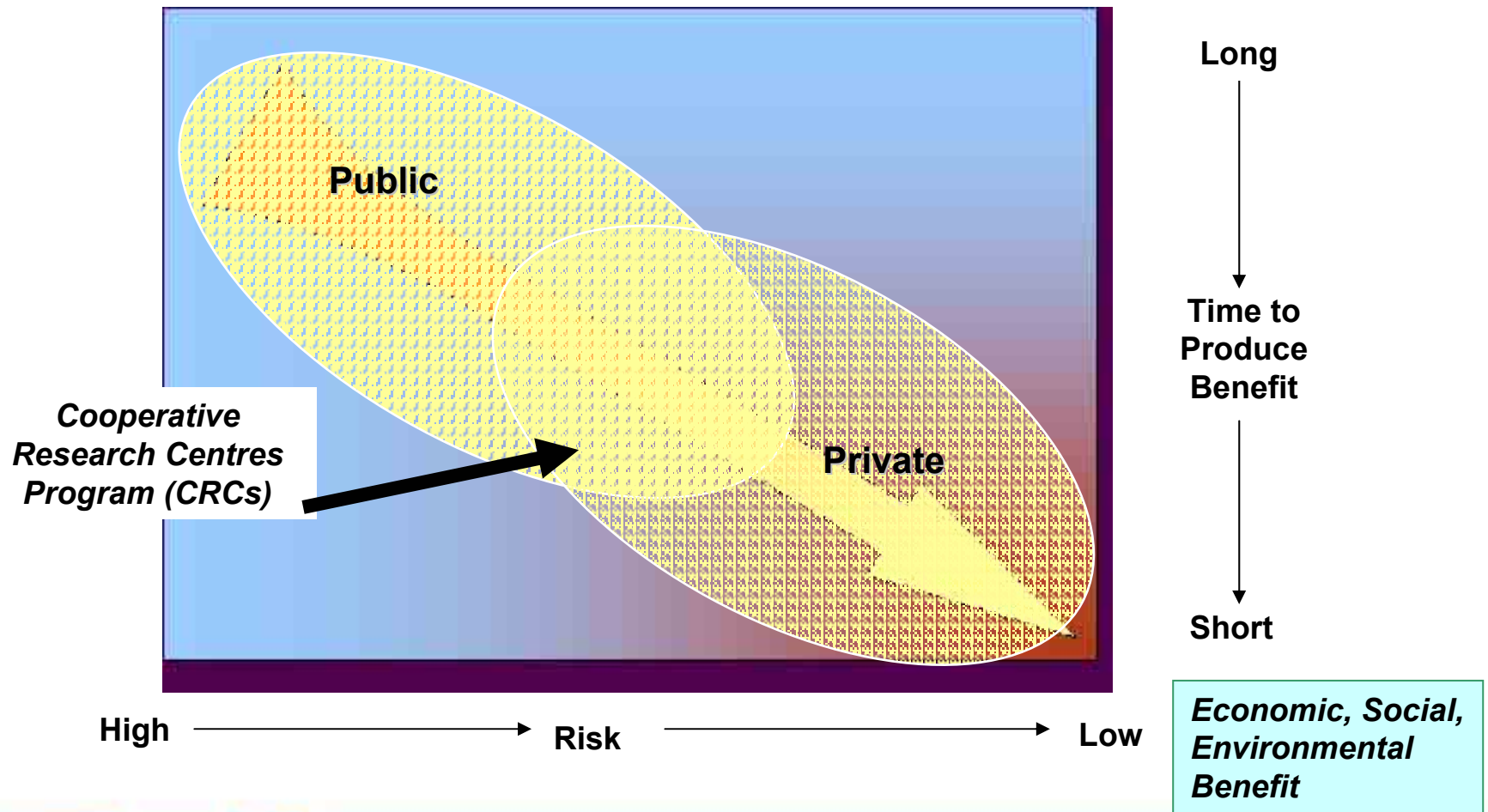
National centres bringing industry, government and researchers together to maximise benefits of research through enhanced utilisation, commercialisation and tech transfer

- **First selection round in 1990 - now 72 CRCs**
 - **Program funding A\$200+ million cash pa**
- **A\$600 million of effort annually (cash + in-kind)**
 - **Typical life = 7 years**
- **Enjoy bi-partisan support as major plank in Australian Government's Innovation Platform**

International R&D Performance



CRC Research Space



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



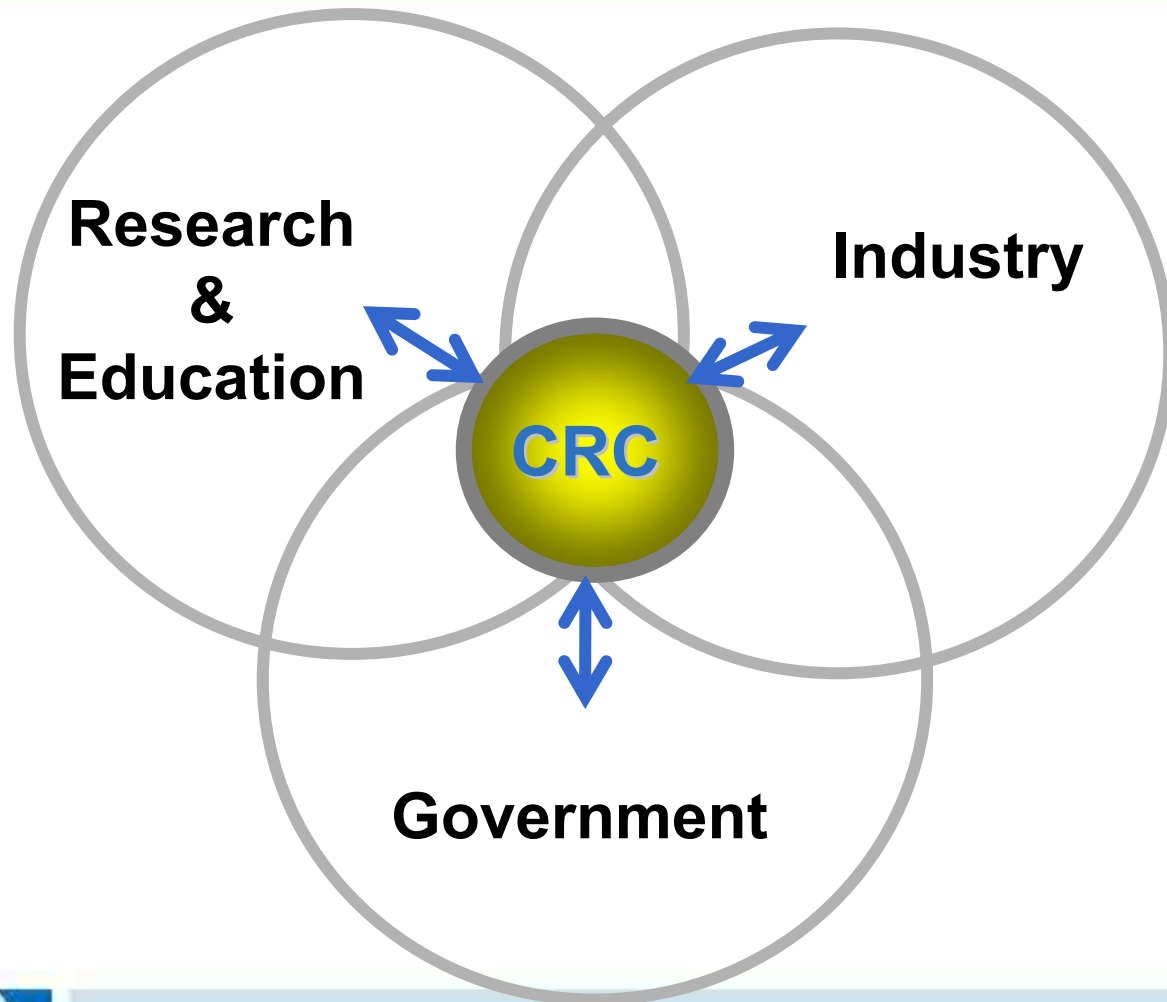
Building our Future

The Role of Construction Innovation



CRC Construction Innovation
BUILDING OUR FUTURE

CRC for Construction Innovation



Construction Innovation

- A\$64M in cash and in-kind over 7 years
- Government, industry and research partners
 - 19 participants nationally
 - 280 people involved = 60 EFTS
- Headquartered at QUT in Brisbane, Australia
 - 5 centres nationally
- First of its kind in construction in Australia
 - Civil and building construction
- Research, education/tech transfer focus

Our Vision



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

Industry Partners



Government



Queensland Government
State Development



Queensland Government
Department of
Public Works



Queensland Government
Department of **Main Roads**

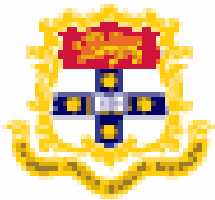


CRC Construction Innovation
BUILDING OUR FUTURE

Researchers



The UNIVERSITY
of NEWCASTLE
AUSTRALIA



The University of Sydney



CSIRO



QUEENSLAND UNIVERSITY
OF TECHNOLOGY



CRC Construction Innovation
BUILDING OUR FUTURE

International Construction Research Alliance

- CRC for Construction Innovation – Australia
- The University of Salford – UK
- VTT – Finland
- CSTB – France
- Stanford University - USA





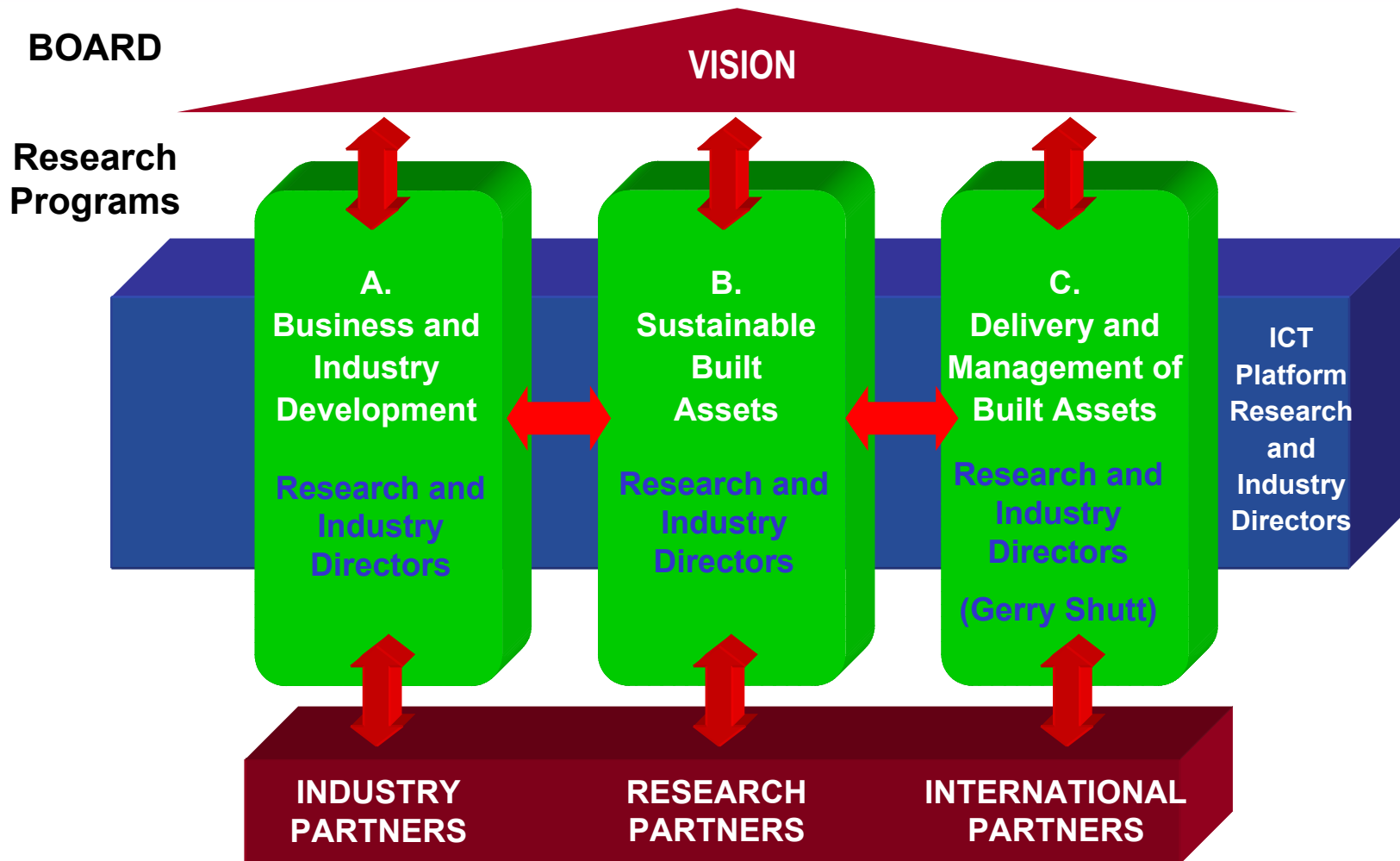
Current Themes

**An insight into Construction
Innovation's Research Activities**



CRC Construction Innovation
BUILDING OUR FUTURE

Research Program Structure



The BRITE Innovation Project

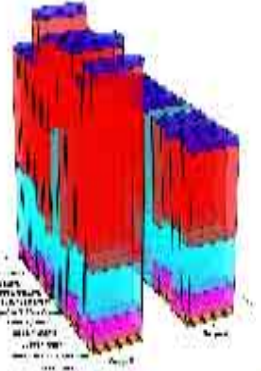
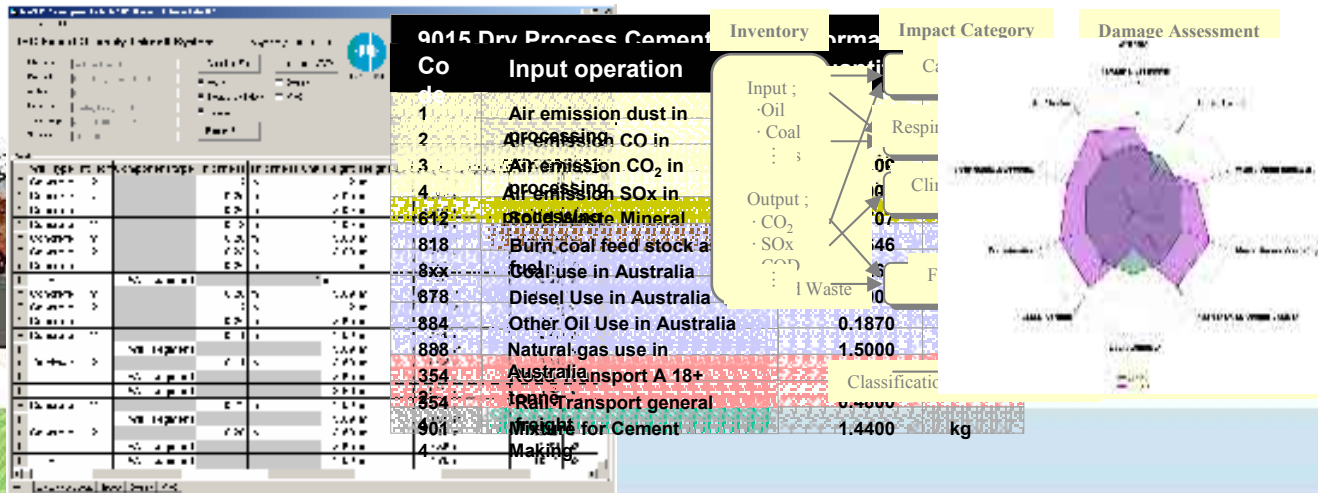
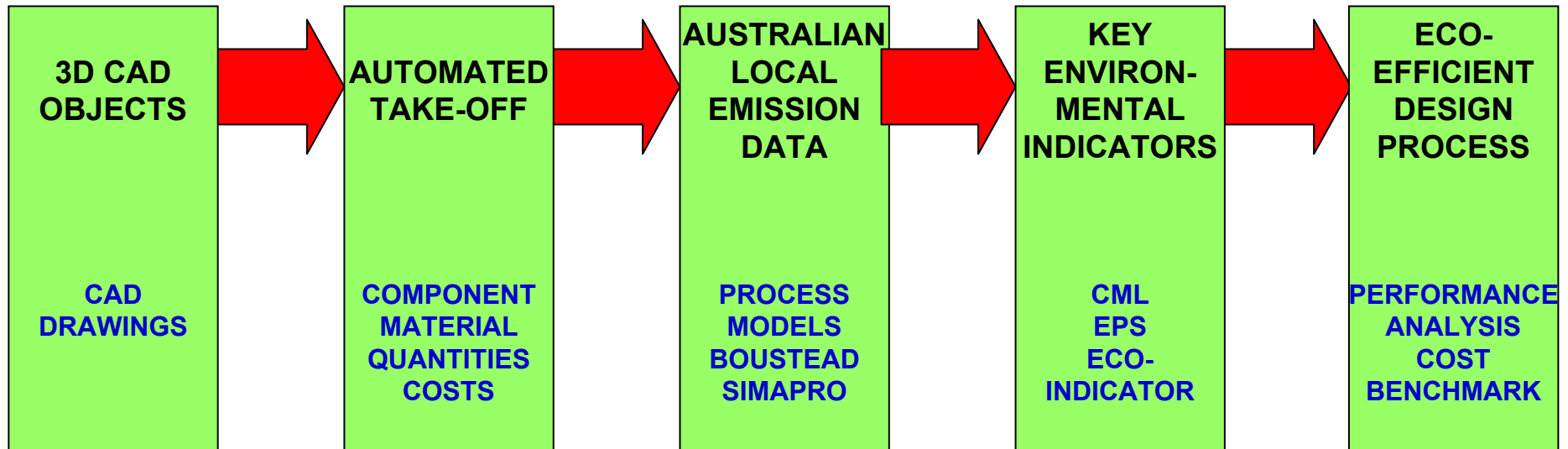
- Incidence and quality of innovation on case studies.
Generating and disseminating knowledge about:
 - The rate of innovation over time
 - What makes one business a better innovator than another?
 - Best practice implementation processes
 - Need to innovate and share innovations with others

www.brite.crcci.info

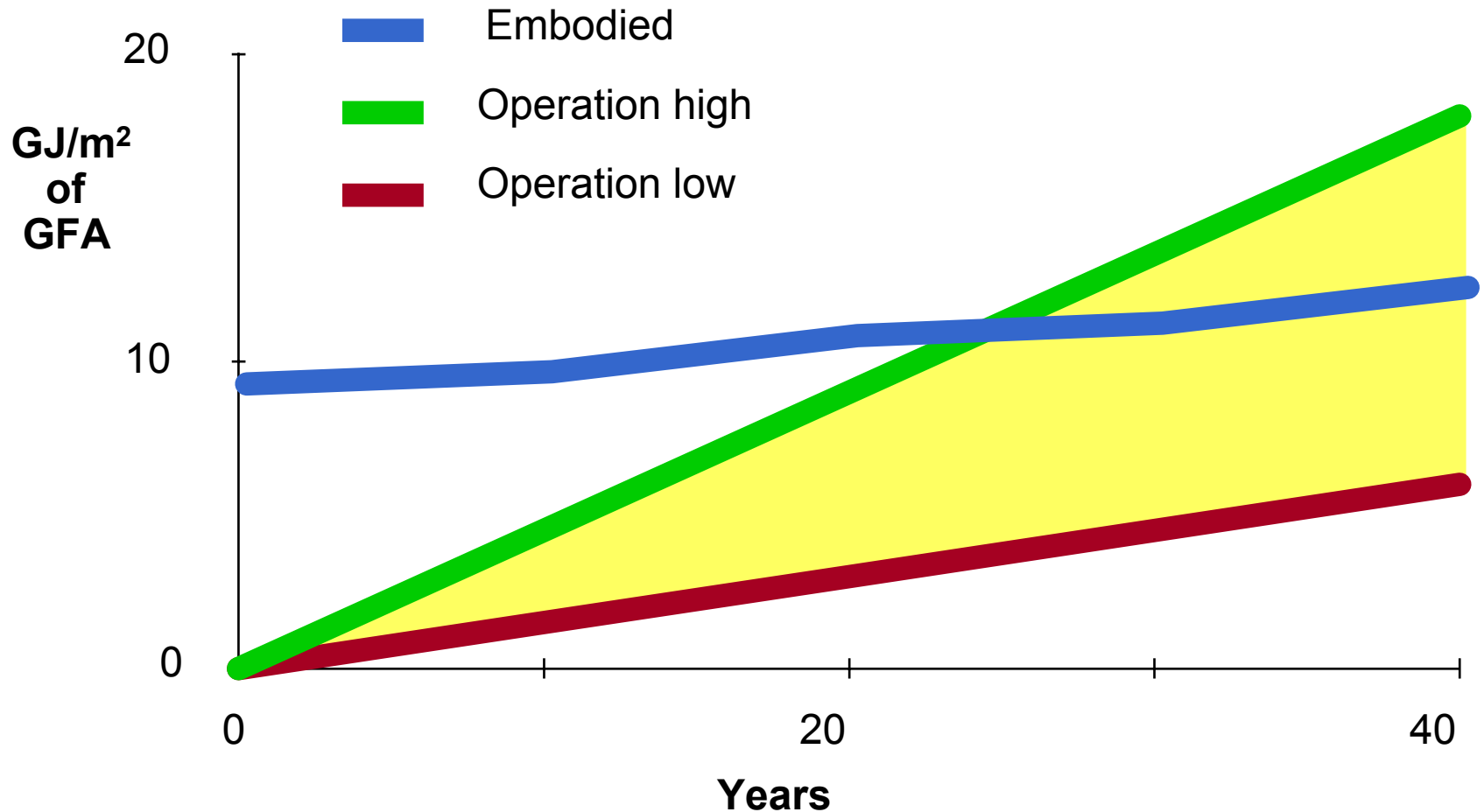
An automated eco-efficiency design tool for commercial buildings

Helping to drive a nationally coordinated strategy in the Green Space

LCADesign Innovation

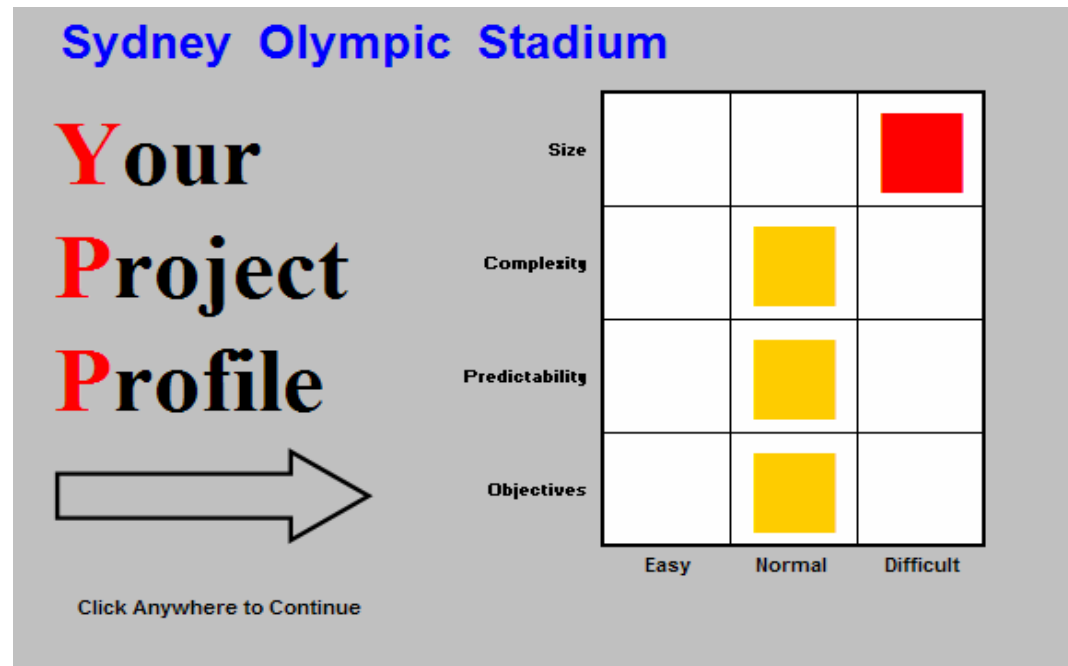


Life Cycle Energy - New Office Building



Value Alignment in Project Delivery

- Decision support tool drawing on a database of projects to assist procurement decisions





Construction 2020

Why is it important?



What is C2020 trying to do?

- capture the vision of where the Australian property and construction industry is heading; and
- determine how CRC for Construction Innovation can lead the industry in applied research to achieve this vision

C2020 – Engagement, Research Focus and Technology Transfer

CRC Partners
Industry Associations
Property and Construction Industry
The Community

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graph TD; A[CRC Partners] <--> B[Industry Associations]; A <--> C[Property and Construction Industry]; A <--> D[The Community];
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Further information ...

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Construction Innovation

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Moving Forward with Collaboration and Innovation

Dr Keith Hampson
CEO
Construction Innovation



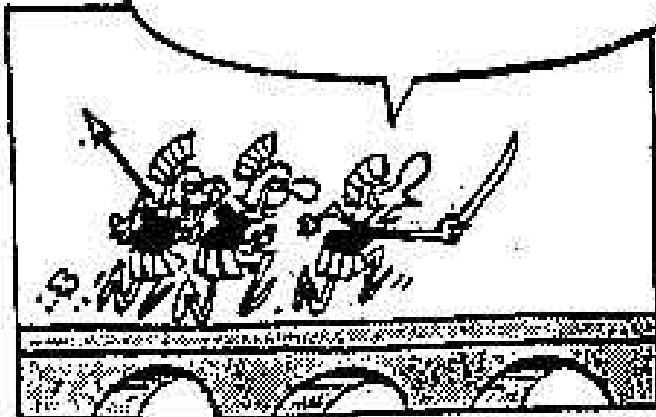
Moving Ahead...



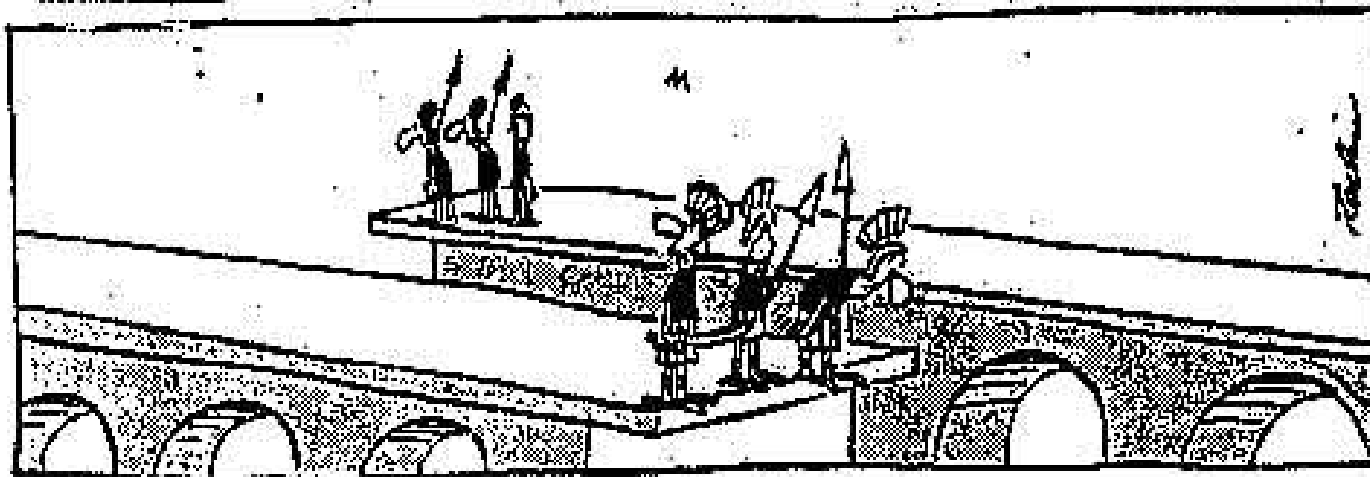
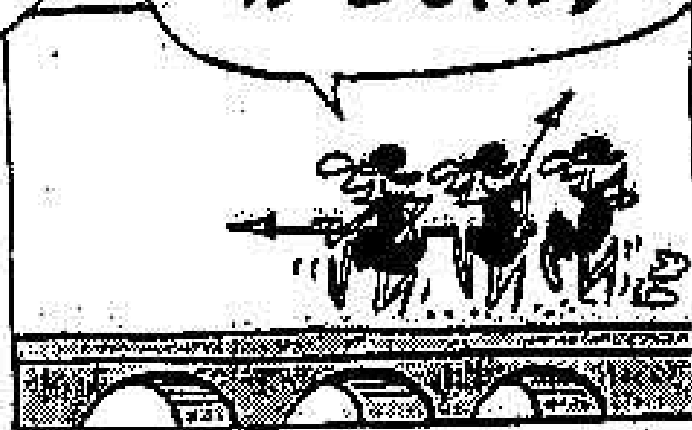
Outcomes of C2020

- The outcomes will be documented in a quality industry-focused report for broad distribution, to be launched in June 2004.
- The results will be disseminated through a series of national seminars mid-2004.

CHARGE!



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First CRC International Conference

- Clients Driving Innovation
 - Brisbane 25-26 October 2003
- Supported by ICALL and CIB
- International launch of ICALL
- Focus for public and private sector clients, consultants and constructors to explore opportunities and compare experiences for stepping up to the next level

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