

Partners in progress

Industry

ARUP

Bovis
Lend Lease

BROOKWATER

dem

dem

John
Holland

Rider Hunt

WOODS BAGOT

Government



Building Commission

Queensland Government
Department of Main Roads

Queensland Government
Department of Public Works

Queensland Government
State Development and Innovation

Research



RMIT
UNIVERSITY

The UNIVERSITY
of NEWCASTLE
AUSTRALIA

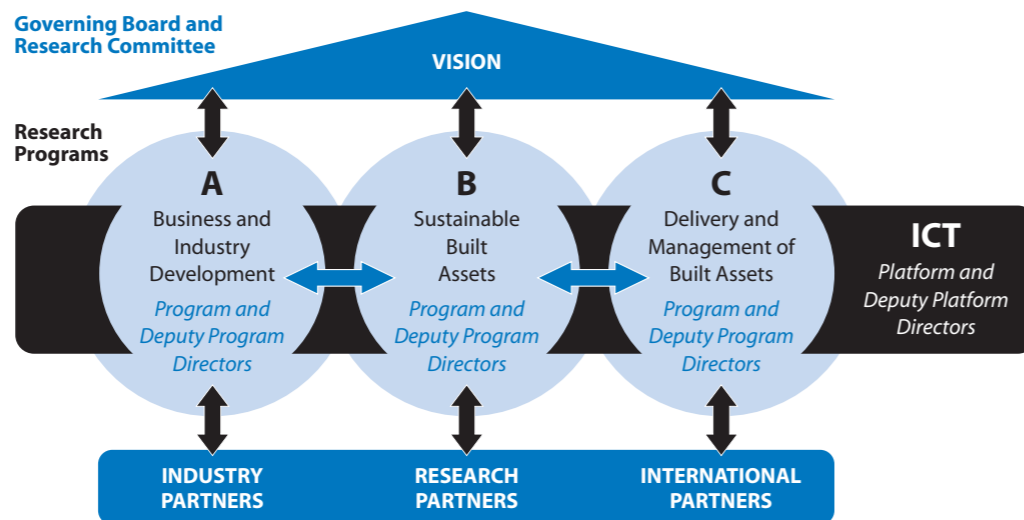
The University of Sydney

University of
Western Sydney
Bringing knowledge to life

Our Research Focus

Our research incorporates a balance of short, medium and long-term activities and a portfolio of projects that reflect the diversity of the property and construction industry and the lifecycle of the constructed product. Research projects undergo a rigorous selection process based on their ability to make a real difference to industry, their research quality and compatibility with partner needs and capabilities, and their potential for industry development or commercialisation. Our research focuses on the following core areas integrally underpinned with advanced applications of Information and Communication Technology (ICT):

- A: Business and Industry Development
- B: Sustainable Built Assets
- C: Delivery and Management of Built Assets



Research Programs are led by Program Directors and Deputy Program Directors. The Program Director derives from one of our research partner organisations while the Deputy Program Director derives from our industry partner organisations.

Executive Summary

Strategic Plan 2005-2008



CRC Construction Innovation
BUILDING OUR FUTURE

www.construction-innovation.info

The CRC for Construction Innovation was established and is supported under the Australian Government's Cooperative Research Centres Program. CRCs bring together researchers from universities, CSIRO and other government laboratories, and private industry or public sector agencies, in long-term collaborative arrangements which support research and development and education activities that achieve real outcomes of national economic and social significance.

Strategic Plan 2005–2008

(Executive Summary)

Our Vision

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

Our Mission

To deliver tools, technologies and management systems that will improve the long-term effectiveness, competitiveness and dynamics of a viable construction industry in the Australian and international contexts. This will be achieved through greater innovation in business processes, strengthened human relations and ethical practices, and more effective interactions between industry and its clients.

To drive healthy and sustainable constructed assets and optimise the environmental impact of built facilities through a sound conceptual basis for economic, social and environmental accounting of the built environment, virtual building technology to examine performance prior to documentation, construction and use, and through assessing human health and productivity benefits of smart indoor environments.

To deliver project value for stakeholders for the whole-of-life, from business need, design and construction through to ownership, asset management and reuse through improved communication and use of knowledge; increased productivity and value; and effective delivery and management of whole-of-life assets.

Our Values

- Collaboration
- Research Excellence
- Respect for People
- Innovation and Sustainability
- Integrity
- Leadership Responsibility

Our Objectives

To enhance the contribution of long-term scientific and technological research and innovation to Australia's sustainable economic and social development.

To enhance collaboration between researchers, industry and government, and to improve efficiency in the use of intellectual and research resources.

To create and commercially exploit tools, technologies and management systems to deliver innovative and sustainable constructed assets to further the financial, environmental and social benefit to the construction industry and the community.

Achieving Our Plan

Working collaboratively, our education, communication and commercialisation programs will play a critical role in supporting our core research activities to disseminate the outcomes and benefits to all partners, the industry and the broader community.

CRITICAL SUCCESS FACTORS

	GOAL	STRATEGIES	KEY PERFORMANCE INDICATORS
QUALITY RESEARCH	<p>To be recognised as a reputable and prominent source of relevant data and applied research within the industry.</p> <p>To be the focus for construction and property research within Australia and to be internationally recognised as the reference point for Australian research.</p> <p>To be known as the lead developer of at least three major innovations that will fundamentally change the Australian property and construction industry.</p> <p>To provide benefits to Australian industries to develop their competitiveness in the national and global marketplace.</p> <p>To create outcomes that will lead to significant economic, environmental and/or social benefits to our partners, the Australian property and construction industry and the community.</p> <p>To be positioned to provide ongoing research support for the needs of the Australian property and construction industry.</p>	<p>Maximise the internal opportunities for collaboration within partner organisations with a blend of research and industry driven initiatives.</p> <p>Coordinate research into and across the research programs to secure the strength of multi-disciplinary research and specialist expertise.</p> <p>Select and conduct excellent research in order to achieve:</p> <ol style="list-style-type: none"> appropriate balance between commercial and public good outcomes Construction Innovation research objectives the return on investment of Construction Innovation funds <p>Leverage Construction Innovation funds via collaboration with key national and international partners.</p> <p>Map project achievements against Construction 2020.</p> <p>Engage industry early.</p> <p>Apply research outcomes through demonstration projects.</p>	<p>Satisfaction of partners and users, and value to industry</p> <p>Increase volume of research contribution to CRC.</p> <p>Adoption of research results/Benefits of results by partners.</p> <p>Increase national and international collaborations.</p> <p>Increase in industry innovations and shifts in the knowledge base.</p> <p>The development of improved standards of design and construction.</p> <p>Contribution by CRC participants in developing public policy initiatives.</p> <p>Strength of collaboration achieved in research development between researchers and industry.</p> <p>External recognition of Construction Innovation as a leader in collaborative and innovative research in Australia.</p>
EDUCATION & TRAINING	<p>To enhance the value to Australia of graduate researchers.</p> <p>For Construction Innovation's Education and Training strategy to be recognised as a significant contributor to enhancing the collaborative culture of construction.</p> <p>To partner with organisations to develop educational and professional development courses based on outputs from Construction Innovation research outcomes.</p>	<p>Provide input to university, TAFE and VET curriculum development.</p> <p>Provide scholarship funds and a focus of industry reference for high quality PhD and Masters students.</p> <p>Identify education and training opportunities from research projects.</p> <p>Provide opportunities for continuous professional development for industry and research personnel, ideally linked to certification processes.</p> <p>Work with existing professional development providers such as professional associations.</p>	<p>Uptake of Construction Innovation inputs to curriculum.</p> <p>Co-supervision of students by industry partners.</p> <p>Uptake of Construction Innovation Research Scholarships by quality candidates.</p> <p>Growth in numbers of industry users involved in research training.</p> <p>Alliances delivering Construction Innovation research outputs to industry.</p> <p>Growth in value of research training sponsorship awarded by government and industry for research and/or study related to CRC projects.</p>
EXTERNAL COMMUNICATION	<p>To promote the benefits of collaboration and innovation in the Australian property and construction industry.</p> <p>Position Construction Innovation to achieve goals in Research, and Education and Training.</p>	<p>Targeted promotion of Construction Innovation research activities to the property and construction industry and the community to confirm Construction Innovation as leading property and construction research in Australia.</p> <p>Use simple, sharp messages to identify industry impacts.</p> <p>Development of robust and rigorous communication for government and industry.</p> <p>Target industry illuminaries.</p>	<p>Press releases raising profile of Construction Innovation and its partners in the promotion of collaboration and innovation.</p> <p>Growth in numbers of publications recognised as key by industry and academic partners.</p> <p>Numbers of papers presented to national and international conferences and promotional activities.</p> <p>Number of presentations to partners, industry and community groups.</p>
COMMERCIALISATION	<p>To enhance the transfer of research outputs into commercial or other outcomes of economic, environmental or social benefit to Australia.</p>	<p>Develop commercialisation plan for targeted Construction Innovation projects.</p> <p>Educate and train key Construction Innovation personnel to understand management of Intellectual Property and strategies for commercialisation.</p> <p>Partner with others in the commercialisation of research outcomes.</p> <p>Transfer project outcomes to partners and industry.</p> <p>Develop prototypes suitable for demonstration purposes.</p> <p>Use experts when appropriate in the commercialisation process.</p> <p>Ensure early involvement of potential commercialisation partners.</p>	<p>Diffusion activities undertaken by Construction Innovation audience.</p> <p>Invitations as keynote speaker to industry conferences, seminars, etc.</p> <p>Increase in participation in industry, trade and academic conferences.</p> <p>Increase in publications for industry users.</p> <p>Increase in number of media clippings/appearances.</p> <p>Growth in income and industry uptake from commercialisation of Intellectual Property.</p>
ADMINISTRATION	<p>To provide Construction Innovation with effective management.</p> <p>To position Construction Innovation to continue to address the needs of the Australian property and construction industry.</p>	<p>Identify the important drivers for each Construction Innovation Participant and better meet these needs.</p> <p>To increase our financial base and to deliver on our Commonwealth goals.</p> <p>Leverage research activities to create a larger critical mass of research effort.</p> <p>Effective leadership and coordination of industry, government and research participants.</p> <p>Provide administrative support at the Program level.</p>	<p>Satisfaction of participant and Commonwealth financial and research management systems.</p> <p>Effective Centre operations across all Commonwealth programs.</p> <p>Collaborative transactions with industry or government partners, including research projects.</p> <p>Growth in number of additional collaborations annually, particularly with industry.</p> <p>Growth in repeat collaborations with partners on projects and related activities.</p>