

Outreach

Promoting industry innovation

Recent industry publications

- eContracting – Security and Legal Issues
- Wayfinding Design Guidelines and Wayfinding System Audit
- Off-site Manufacture in Australia: Current State and Future Directions
- Guide to Best Practice for Safer Construction
- Adopting BIM for Facilities Management
- FM as a Business Enabler
- Sustainable Subdivisions: Review of Technologies for Integrated Water Services
- Sustainable Subdivisions: Energy-Efficient Design
- HVAC System Size: Getting it Right
- Being the Best and Being the Best Innovation Gallery 2007

Coming soon!

- Delivering a Re-life Construction Project
- Business Drivers for BIM
- Waste Water Sewer Mining
- Supply Chain Management



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Digital Modelling for Infrastructure and Building

Award-winning IT research and implementation promoting open standards across the supply chain

Digital modelling and BIM

Our 2008–09 program is developing national guidelines between disciplines based on case studies of projects using digital models, and the development of a collaborative ICT platform.

Construction Innovation is leading the industry towards more integrated and effective digital processes in its applied research and implementation initiatives.

Other resources available:

- Adopting BIM for facilities management
- eContracting – Security and Legal Issues



Skilling the Workforce

We develop Continuing Professional Education based on our industry-endorsed research outcomes

Safety Leadership Foundations

This new two-day workshop provides Supervisors and Managers with practical and ready to use skills to create and maintain a safe work culture. You will learn who is accountable for what and how to determine your legal obligations with access to a specialist lawyer.

This practical and interactive workshop is the outcome of a two year industry-led research project supported by the Office of the Federal Safety Commissioner. This project won the Australian Institute of Building's Professional Excellence in Building Award 2007.

Workshops planned for 2008

- Relationship Management in Project Delivery
- Developing the Business Case for Sustainable Commercial Buildings
- Lifecycle Costing Analysis for Sustainable Commercial Buildings – **New!**
- FM for Green Buildings – **New!**

“The focus on risk management and people behavioural issues covered in this course are fundamental to project success.”

– Participant in Relationship Management in Project Delivery Course, 2007



Innovation highlights for Australia's property, design, construction and FM industry

Innovate08



Established and supported under the Australian Government's Cooperative Research Centres Programme



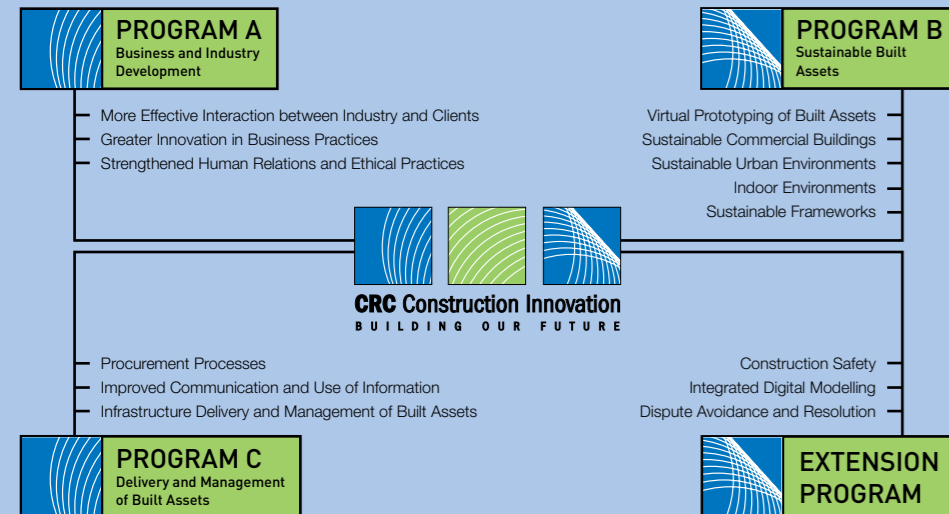
National Focus

Construction Innovation is Australia's national centre for research and innovation for the property, design, construction and facilities management industry

Established in 2001 with base funding from the Commonwealth Government's Cooperative Research Centre Programme, *Construction Innovation* now has 27 industry, government and research partners from around Australia who lead industry research and implementation activities at a national level. Our 2008–09 research and commercialisation program focuses on sustainability for infrastructure and buildings, developing national digital modelling software standards, and industry-endorsed national approaches to improving safety on construction sites. We are also undertaking an analysis of the costs to community resulting from contractual disputes in construction and the systems for effectively resolving disputes. Our industry outreach program includes customised training courses and publications.

Research Library

Visit our online Research Library for an overview of *Construction Innovation's* research activities. www.construction-innovation.info



Underpinning these research programs is an ICT platform

Achievements

Construction Innovation and its partners have achieved national and international industry recognition for its research and implementation achievements

- Project of the Year, 2007 Association of Consulting Engineers, Australia (ACEA) Awards for Excellence
- Rider Hunt Terotech Industry Achievement Award for Facility Management Strategy and Practice, 2007
- Construction Innovation's Sydney Opera House FM Exemplar Project featured in two international awards – the Jury's Choice category of the American Institute of Architects Technology in Architectural Practice 2007 awards, and the Bentley Awards for Excellence 2007 for BIM in multiple disciplines
- 2007 Australian Institute of Building's (AIB) Professional Excellence Award in the Research and Development category
- International Federation of Asian and Western Pacific Contractors' Associations (IFAWPCA) 2007 Atsumi Award.

Collaboration

Construction Innovation leads industry development and is guided by the expertise of its 27 partner organisations



Sustainable Infrastructure and Buildings

The building sector is responsible for 23% of Australia's total greenhouse gas emissions



In a world first, *Construction Innovation* has gained a global licensing agreement with an Australian industry partner to commercialise **LCADesign**, a new tool that can electronically calculate and chart the environmental impact of construction materials and building products, in 2008.



The **Your Building** web portal is Australia's key online resource about sustainable buildings. It provides information for all those involved across the building life cycle - from investors, owners and occupiers to developers, builders, designers, and facility managers. www.yourbuilding.org

Re-living commercial buildings

New construction accounts for only 1-2% of floor space per year. Therefore it is imperative to improve the sustainability of existing building stock. It is estimated up to 50 per cent of annual capital budgets will go to re-living by the year 2020. Our research has developed a structured analysis to test the commercial, technical and environmental viability of re-living projects.



Council House 2 © City of Melbourne

Construction Safety

20-24 year olds in the building and construction industry are four times more likely to have a fatal accident than those in other industries

Construction Innovation works with business and government to improve productivity through innovation and best practice programs. We have created an unprecedented alliance of industry, government and researchers committed to saving lives and preventing injuries on Australia's construction sites.

Our industry research provides a national focus across sectors and has delivered:

1. Development of the **Construction Safety Competency Framework** designed for use by safety managers and senior managers to create a positive safety culture. The framework ensures key staff such as project managers, supervisors, OHS advisors and engineers can effectively execute tasks needed to better manage OHS.
2. The industry-endorsed **Guide to Best Practice for Safer Construction** provides a framework to improve safety performance on construction projects and covers all stages of a project: planning, design, construction and post-construction. It applies a holistic approach engaging property owners, designers and constructors.



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