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**Best brains showcasing building innovations to help solve our housing crisis**

Some of the best brains in building innovation are showcasing prototypes, products and processes that can help resolve our national housing crisis at the Building 4.0 CRC Housing Innovation Showcase on Wednesday 19 June.

The Showcase features innovations from 24 exhibitors including a bricklaying robot, a prefab demonstrator pod, a modular retrofit facade to reduce energy consumption, and a two-bedroom rapid deployment home installed at the Monash University Caulfield Campus.

Building 4.0 CRC CEO, Prof. Mathew Aitchison said the ground-breaking work on display was being developed by the CRC in collaboration with private and public sectors as well as universities to create efficient and sustainable quality housing quicker across Australia.

“We have brought together significant demonstration projects where industry, government and the community can experience first-hand the building innovations created and share insights.”

Innovations on display at the Showcase include:

- the SPACECUBE 45m$^2$, 2-bedroom Rapid Deployment Accommodation module
- the Candour Pavilion, a high-quality and sustainable structure that combines software plugins and state-of-the-art prefabrication facilities
- the Brickworks Mule Robot, which can pick and lay bricks with precision, increasing the efficiency of building brick walls
- the Verton SpinPod 7.5, a hands-off approach to lifting and orienting loads on construction sites that is both safer and more efficient
- the Finding Infinity Carbon Positive Mass Timber Construction, which combines cost-effective, pragmatic, practical initiatives that are commercially viable and scalable
- XFrame structural timber framing, an efficient demountable wall that radically decreases building times
- the PT Blink DMI®, a platform and marketplace to create multi-storey buildings from a kit of configurable parts.

“The event is an important opportunity for partners and researchers to connect, build relationships, discuss the outcomes and impacts of projects and surface new ideas for the future,” Prof. Aitchison said.

**Details**

- Wednesday 19 June 2024
- 10.30am– 3.30pm (lunch will be provided)
- Monash University Caulfield Campus (900 Dandenong Road, Caulfield East)

For further information contact: Kathy Mac Dermott
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**Exhibitors**

- Building 4.0 CRC
- Bond University
- Brickworks
- Candour
- CE Construction Solutions
- Earth Building Association of Australia
- Earth Building Solutions
- Finding Infinity
- Integrated Biotecture
- Lendlease
- Masslam
- Monash University
- MudTech
- Office of the Victorian Government Architect
- PT Blink
- RMIT
- SPACECUBE
- Sumitomo Forestry Australia
- University of Melbourne
- University of New South Wales
- University of Newcastle
- Verton
- XFrame
- ZERO Living

**About Building 4.0 CRC**

Building 4.0 CRC is a research initiative co-funded by industry partners and the Australian Government. It is tasked with revolutionising how buildings are designed, constructed and operated to build faster, safer, more sustainably and at a lower cost.

Building 4.0 CRC focuses on 4 research areas – Industrialisation, Digitalisation, Sustainability, and People, Practices and Culture – with a particular drive to create significant demonstration projects where industry, government and the community can experience first-hand those buildings created or retrofitted using innovation and new methods of construction.

Now in it is fourth year (of seven), Building 4.0 CRC is working with industry and governments to achieve an 80% reduction in construction waste; 50% cut in $CO_2$ emissions and a 30% decrease in production costs through the development of a more industrialised approach to building. It is also targeting the training of 7,000 apprentices in preparation for the new ways we will build in the future, and the development of an internationally competitive, dynamic and thriving Australian advanced manufacturing sector focussed on building.

To date, Building 4.0 CRC has been involved in 63 collaborative research projects, either active or completed, with another 40 in the pipeline.