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Media release

For immediate release

New building technologies and practices – Showcasing the impact on industry

Designing prefabricated housing solutions for areas affected by bushfires and other natural disasters, developing new integrated wall systems and new flooring products, and quantifying the benefits of offsite production are just some of the ways [Building 4.0 CRC](#) aims to transform Australia's building and construction industries.

Working with 28 partners, the CRC has initiated 46 applied research projects, to improve industry efficiency, sustainability and the culture of construction in Australia. The CRC will profile some of these projects, partners and researchers at its Annual Showcase Wednesday 22 March 2023, 11–3pm, at Melbourne Connect (Mezzanine Level, 700 Swanston St, Carlton).

The Annual Showcase demonstrates the tangible outcomes for industry from CRC research. It is also an opportunity for partners and researchers to interact with one another, build relationships and discuss new ideas for the future. The Showcase is a mix of demonstrations, presentations and exhibitions.

This year's Showcase profiles 10 projects:

- Project #1: streamlining planning and approvals using ePlanning and eApprovals
- Project #11: creating a framework for assessing the environmental credentials of building technology platforms
- Project #12: using augmented and virtual reality technologies for vocational education and training
- Project #27: developing a framework for comparing the environmental impacts of alternative building solutions
- Project #35: designing prefabricated housing solutions for areas affected by bushfires and other natural disasters
- Project #42: proposing a workflow to automate the residential home design process
- Project #45: designing new integrated wall systems
- Project #46: using data analytics to optimise resource use
- Project #59: combining steel, timber and concrete to create a new flooring product.

There are also demonstrations, presentations and videos from industry partners:

- Standards Australia will discuss ways to improve the accessibility, transparency and user-friendliness of standards and the standards development process.
- Holmesglen Institute will discuss their strategy for improving skills and training.
- Office of Projects Victoria will give an overview of their Digital Build Program.
- Sumitomo Forestry will present on Lighthouse Project #6, a pilot project in Melbourne that aims to quantify benefits of offsite construction and recommend improvements.
- Verton will demonstrate a remote control solution that improves safety and increases productivity.
- Green Building Council Australia discusses its role in promoting sustainability with Australia's building industry.
- Master Builders Association of Victoria will profile the Building Leadership Simulation Centre, which challenges participants with tasks, interactions and scenarios similar to a real building site.
- Viridi will showcase its suite of prefabricated building products that make better use of limited natural resources.

Quotes from Mathew Aitchison, Chief Executive Officer, Building 4.0 CRC

“The CRC has an important role in articulating a vision for the future of building, and also guiding the industry towards this future. We are focused on creating a culture of innovation in building that can bring up all corners of the industry.”

“Our research is starting to move from the conceptual to the practical. We’re developing new products and new techniques. The next step is trialling them in works on-ground. A good example is our partnership with Sumitomo Forestry, a pilot project in Melbourne that aims to quantify the benefits of offsite construction.”

Register for the free event here:

<https://building40crc.zohobackstage.com.au/BUILDING40CRCANNUALSHOWCASE>

About Building 4.0 CRC

[Building 4.0 CRC](#) is a \$130 million industry-led research initiative co-funded by industry and the Australia Government. It aims to deliver better buildings at lower cost and develop construction and building industry leaders of the future.

Our 4 integrated research programs will help us deliver:

- more sustainable practices for designing, constructing and occupying buildings
- new industry-wide culture, practices and standard protocols and pathways for future employees to develop new, tech-focused skills
- new building processes that leverage the latest technologies, data science and AI
- improvements to building “hardware” and processes across all building phases (development, design, production, assembly, operation, maintenance and end-of-life).

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