



NSW Department of Education

Materials Innovation Forum

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December 2022

[education.nsw.gov.au](https://www.education.nsw.gov.au)

Materials Innovation

Delivering more value through the significant investment in educational infrastructure

- The NSW Department of Education is exploring new ideas for the future – including materials innovation – to optimise the value that is derived from the \$17.7 billion invested in public education infrastructure.
- Every day, our teams support more than 800,000 public school students and more than 120,000 employees across 2,200+ schools. How we direct our infrastructure spend will influence communities for years to come.
- As part of the new ideas, we are reimagining the materials and methods of construction of our schools.

“\$17.7 billion can do better than entrench what we do today. It can – it must – engage both government and industry in reimagining how we build and operate schools and in celebrating the role of the public education system for NSW communities, economy and environment; a role that must include decarbonisation, equity, and resilience. We recognise our responsibility to address the challenges of our time and embrace this opportunity to create a deserving legacy for the future Australians we educate today.”

– Anthony Manning, Chief Executive

School Infrastructure NSW

Our commitment to sustainability

A focused approach to sustainability

- In November 2022 we launched Our Commitment to Sustainability.
- We strive to delivery quality education outcomes while protecting the environment, contributing to economic prosperity and helping our communities to thrive.
- We are looking to demonstrate our leadership by:
 - Supporting staff and students
 - Evolving our own practices
 - Sharing our story to inspire others.

Our commitment to sustainability

Five key sustainability priorities & 9 goals for 2030

Our priorities are:

- Unlock human potential
- Foster connections
- Act on climate change
- Consume responsibly
- Build resilience

Goal #7 – We demonstrate leadership by investing in innovation.

Modern Methods of Construction (MMC)

Enable rapid delivery of high quality, efficient and sustainable educational infrastructure

Aims

- Creating an emerging and competitive market
- Developing market capability
- Appropriate risk allocation
- Quality and safety

Benefits

- Around 30% faster on the construction site
- Reduced environmental impacts
- Creating new jobs and expanding local training opportunities
- Safer during construction

Manufacture & Assembly

- Standardised building components through a kit of parts approach
- Utilising a pavilion model
- First delivered at Fern Bay Public School



Materials Innovation

Our vision for the future of materials

We are looking to evolve our approach towards materials that:

- will equip the next generation of Australians for the future
- will provide a return on community investment in education
- are safe for all species through time
- are regenerative
- reflect modern methods of mass construction
- integrate the latest digital technology
- can fuel a competitive NSW industry.

“We embarked on exploring the future of materials innovation because, as a client organisation within the public sector, we recognise our responsibility for optimising the value that NSW and Australia derive from the \$17.7 billion being invested in public education infrastructure. We are accelerating this work because of the encouraging evidence that the 'third horizon' may be here sooner than we hoped.”

– Anthony Manning, Chief Executive
School Infrastructure NSW

Next steps

Learning from industry to inform the departments approach

We are seeking input from industry - What is underway? What are its benefits, costs, and obstacles in its way? What would accelerate the development and delivery of innovative materials?

Opportunities to assist:

- Survey. Please complete our short survey to provide more detailed input into our strategy. Link in the chat.
- In-depth forums. Please join us for one of two in-depth discussions next week. Registration link is also in the chat.
- Spread the word. Please connect us with others interested in accelerating materials innovation.



Online forum 1

Wednesday 14 Dec 2022

11:00 am to 12:00 pm



Online forum 2

Thursday 15 Dec 2022

9:00 am to 10:00 am