Innovating to deliver more homes sooner



Bonde Ilievski Regional Portfolio Director, Homes NSW



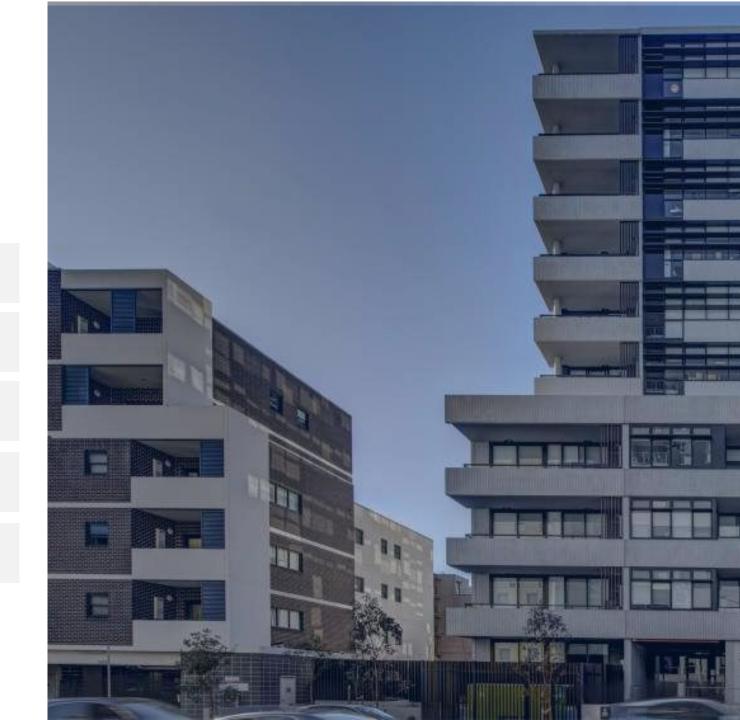
Acknowledgement of Country

I acknowledge the Wann-gal, the traditional owners of the lands on which we meet today and the Aboriginal and Torres Strait Islander people participating in this event.

I pay my respects to Elders past, present and emerging, and recognise and celebrate the diversity of Aboriginal peoples and their ongoing cultures and connections to the lands and waters of NSW.

Today's agenda

- (1) About Homes NSW
- (2) What is Modern Methods of Construction
- (3) About the MMC Program
- 4 Building Products at Homes NSW
- (5) Closing remarks





Delivering quality homes and services that change lives and end homelessess

Commenced as an agency from **1 February 2024** bringing together housing and homelessness, with social housing, aboriginal housing and key worker housing all under one roof – making the system more efficient and accessible.

Land and Housing Corporation

NSW social housing portfolio

Maintenance

Delivery of new homes



DCJ Housing and Homelessness

Tenant management of social housing

Homelessness services

Disaster welfare



Aboriginal Housing Office

Provider of housing for Aboriginal and Torres Strait Islander people



Key Worker Housing

Teacher and Police housing

Regional Key Worker housing







Our role - Homes NSW

The role of **Housing Portfolio** within Homes NSW is to actively grow and manage the supply of the right types of housing, at the right time, in the right areas, for people in need in our communities.

We manage the largest social housing portfolio in Australia, with over 125,000 properties valued at approx. \$63 billion (as at 30 June 2023).







NSW-wide portfolio

125,000

30,889 managed by Community Housing Providers



Average age of homes

43.6

Retain and maintain properties for over 50 years



New homes

8,400

Over the next four years to as part of the recent Building Homes for NSW budget



Maintenance spend

\$810m

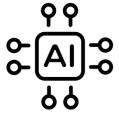
Over the next four years to repair and restore 30,000 properties



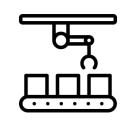
MMC is not one approach, it describes a collection of methods to plan, design, build and manage assets.



Digital twins



Artificial intelligence



Off-site manufacturing



Site technologies



Off-site modular

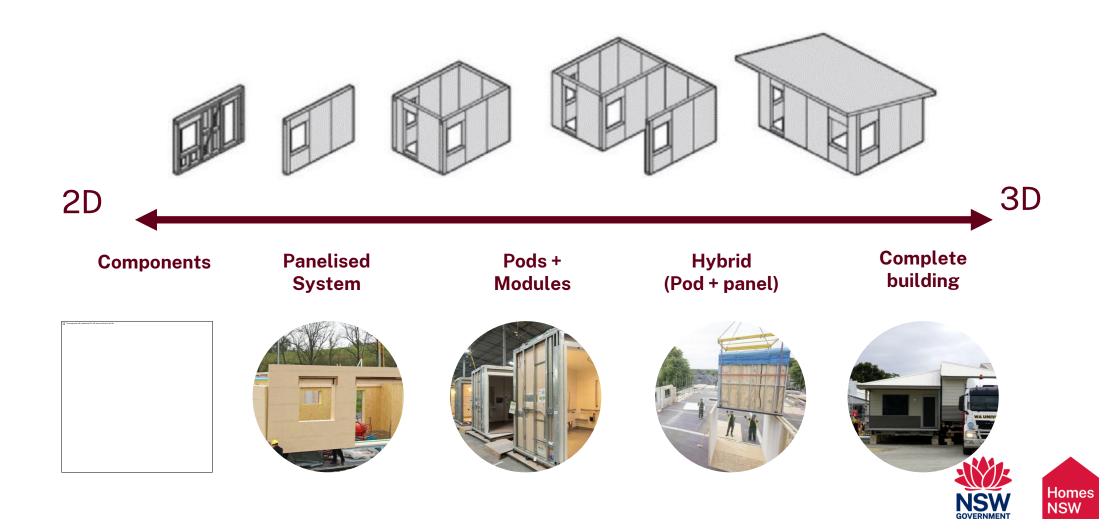


3D Printing





There is no one size fits all. Selecting from a spectrum to find the best fit for the project and program.



Delivering quality homes faster, improving quality, reducing waste and risk.













Demonstrate how Modern Methods of Construction can be adopted to deliver more social, affordable, and key worker homes, with speed of delivery, great quality, volume, and value for money benefits, incorporating learnings and improving tenant outcomes.



Deliver homes faster



Change perceptions



Enable a pipeline



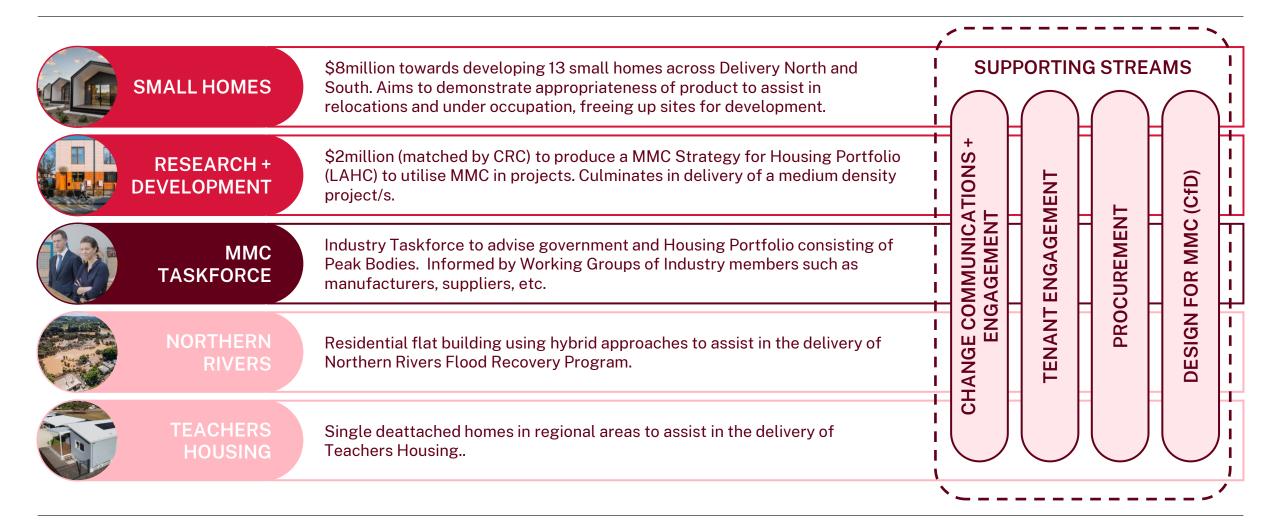
Build organisational capability



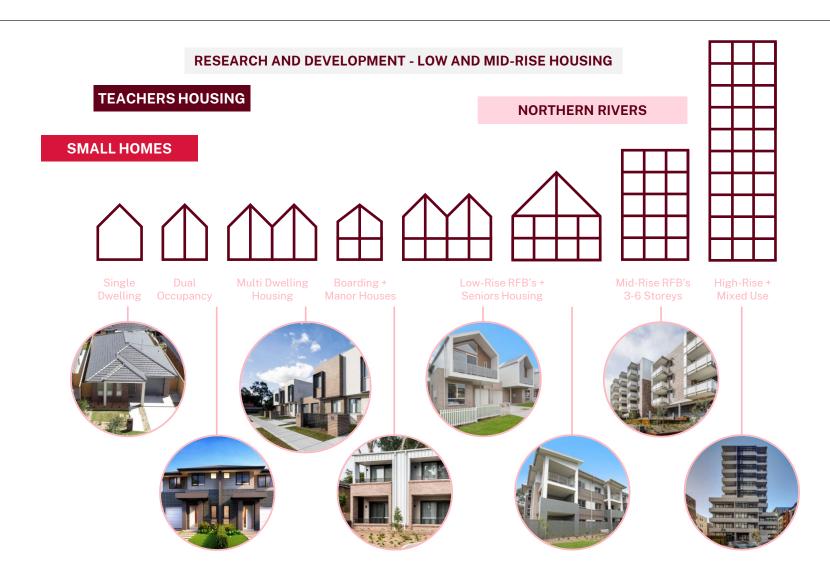
Lead the way in a sustained, systemic way

MMC Program





Demonstrating different methods and products across a range of typologies



Modern Methods of Construction Taskforce

The Taskforce was launched by Premier Minns and Minister Jackson on 27 November 2023.

- Provide advice on the use and adoption of MMC to deliver more homes in NSW, growth of the off-site manufacturing industry
- Provides recommendations to NSW Government on industry wide challenges.
- Members include peak body representatives representing housing, construction, manufacturing, local government and tenants.
- Quarterly meetings
- 2 years and conclude in 2025





MMC Taskforce June 2024

What we heard



More homes

- Provide a consistent, transparent, and reliable pipeline.
- Efficiencies are achieved through **standardisation**, repetitious designs. Provide a program, not projects.
- Consider different models using a hybrid of modern methods of construction and traditional construction



Planning and regulation

- Work with regulatory bodies to streamline planning and building regulations to accommodate MMC whilst ensuring safety and quality standards.
- Work with governments to provide certainty through the planning system through pre-approved or regularised plans, to ensure there is a fast, efficient, approval system to give confidence to investors and other financial institutions.



Building the industry

- Government should "get on with it" and deliver demonstration projects to inform a broader program and enable certainty of investment.
- Consider collaborative contract models to reflect MMC
- Create more accessible government procurement methods to make it easier for suppliers to tender



The journey to adoption

- Collaborate across the nation to build confidence in and knowledge of MMC with exemplar projects demonstrating quality design, and consistent standards and certification.
- Create high quality design, deliver higher sustainability performance and communities people love.

Research and Development to innovate how we design, plan, deliver and maintain quality homes



Scoping, Strategy & Platform development

Homes NSW, in collaboration with Building 4.0 CRC, will develop strategies and methods and demonstrate the application of MMC on a series of live projects to further facilitate and support industry adoption of innovative methods of construction.

Proof of concept projects

Proof of concept projects will integrate prototypes developed, to develop an operational handbook and a kit of parts approach for MMC.

Key focus areas:



Speed and efficiency of housing delivery



Cost and value for money



Tenant satisfaction and experience



Sustainability and resilience



Operations and maintenance



What design means to Homes NSW







AFFORDABLE

Upfront costs
Operational Costs
Lifecycle +
maintenance



SUSTAINABLE

For our residents
For the environment
For the community



BEAUTIFUL

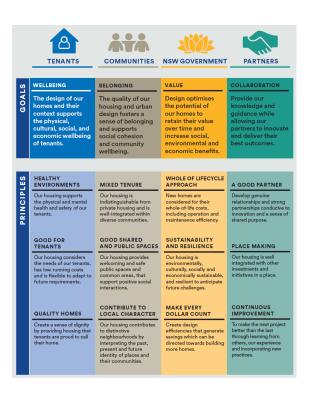
What home means Context + Character Support life choices

Rigorous design standards and performance requirements













Key design and build considerations







- ✓ Is a replacement for an item easily available?
- ✓ If there is a tile to be replaced, can we get a matching tile?
- ✓ Can we use one piece splash backs to kitchen?
- ✓ Can we eliminate the use of floor tiles e.g. sheet vinyl
- ✓ Can we standardise doors/windows for easier replacement?
- ✓ Can we future proof by allowing for AC and Solar?
- ✓ Can we reduce the extent of painting externally and internally?
- ✓ Consider prefinished sheet materials.

External Wall Cladding Options



Sheet Metal

- I ow maintenance
- Readily available
- Ease of module connection
- Standard corner details
- Reflected heat
- Embodied carbon is high
- Window details complicated and expensive



Fibre Cement

for tenants.

Relative low cost.

Brick slips on rail system

lightweight structure

Cost of construction

I ow maintenance external finish.

✓ Achieve heavy weight appearance on

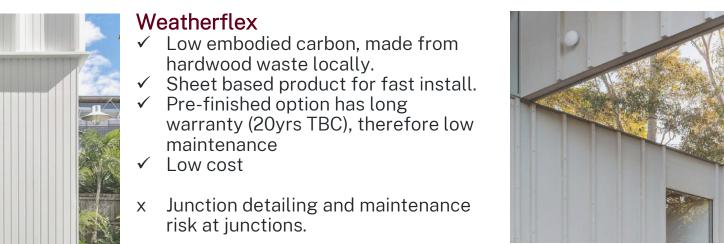
finish and psychological advantage

✓ Australian predisposition to brick

- Needs batten detail to cover screw holes and joint, which lends itself to modular construction.
- Stigma associated with fibro houses.
- Requires painting and re-painting.



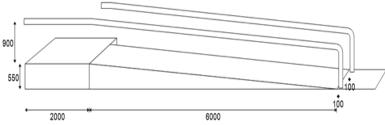




Future Proofing and Adaptability









Homes NSW properties need to be adaptable to move with the changing needs of our clients

- Consider Disability Modifications from Grab rails and ramps to full kitchen and bathroom modifications.
- Fastening points Eg: Blocking pieces/ply backing for grab rails.
- Ability to add Solar PV.
- Provision for Air Conditioning.
- Level Access Points and thresholds.
- Minimum Door and hallway widths for accessibility.
- Hobless Showers.
- Additional Power Outlets for appliances/IT.

Thank you



Learn more www.nsw.gov.au/homes-nsw/mmc

