Project Steering Group Meeting

Sustainable Built Environment National Research Centre AUSTRALIA

PROJECT 2.11.2 Interoperable Data – PSG 03 October 2026

Improving Productivity, Carbon and Resilience Through Interoperable Built Environment Data

Chair:

Andrew Curthoys, Chair,

Australian BIM Advisory Board (ABAB)

Project Leader:

Peng Wu, Professor,

Curtin University

Meeting agenda

Item	Agenda section	Sub-items
1.0	Welcome and introductions	1.1–1.3
2.0	Project progress and research findings	2.1–2.5
3.0	Implementation	3.1–3.3
4.0	Communications	4.1
5.0	Collaborations	5.1–5.3
6.0	Any other business and actions	6.1–6.3
7.0	Dates for next meetings	7.1

Meeting papers

Documents listed in the supplied PSG #3 agenda. Attachments themselves are not included in this deck.

Reference	Document / Link
A	Meeting Notes and Actions arising from PSG#2
B	Project Fact Sheet (PSG Page Overview)
C	Case Study Summary
D	Quarterly Report 2
E	Industry Partner Engagement Sessions
F	Project Timeline
G	Communications Plan

Reference material is available via the PSG Project Page.

Previous meeting notes and actions

Chair and Project Leader. Reference: Attachment A.

Ref.	Action from PSG #2	Owner	Due date	Status
01	Terms of Reference: update as suggested by a partner and circulate revised version	Will Hackney	PSG#3	To confirm
02	SCC data: clarify 12d material details and test smaller-scale data; follow up with Ario Susanto	Peng Wu / Will Hackney	PSG#3	To confirm
03	Asset classification mapping table to IFC property sets; seek publication approval	Rolf Engel	PSG#3	To confirm
04	Geometry Gym: introduce Peng Wu and Jun Wang to John Merchant	Will Hackney	PSG#3	To confirm
05	QUT: follow up with Robin Drogemuller on previous object library work	Will Hackney	PSG#3	To confirm
06	Carbon plugins: complete integration; validate with John Clifton (DevelopmentWA data)	Peng Wu	PSG#3	To confirm
07	Main Roads LiDAR: meet MRWA team on deploying the asset detection algorithm	Peng Wu	PSG#3	To confirm
08	Atlas MLS pilot: confirm precast panels with Karim; coordinate site visit	Peng Wu	Late Aug 2026	To confirm

CONFIRMATION

Previous minutes and action details refer to Attachment A.

Sustainable Built Environment National Research Centre AUSTRALIA

Researcher Briefing | Key Findings and Insights for Partners

For information and discussion

2.1 Research aims and progress

Project Leader. Quarterly reporting reference: Attachment D.

PROJECT OBJECTIVES

1. To understand existing developments about Infrastructure Common Data Model (ICDM) and establish a unified data framework to ensure interoperability, traceability, and efficient data exchange across the asset lifecycle.
2. To integrate 12d modelling of civil assets into MetaBIM: Develop a seamless workflow for importing and managing 12d civil design models within the MetaBIM platform to support digital twin creation, visualisation, and lifecycle coordination of infrastructure assets.
3. Integrate digital technologies for asset lifecycle management: Create toolkits and workflows that leverage BIM, IoT, and AI for data-driven decision-making throughout design, construction, and operation phases.
4. Build workforce digital capability: Design and deliver targeted upskilling programs to enhance digital literacy and technical proficiency across industry professionals, focusing on AI data analytics, and lifecycle information management.

PROJECT LEADER UPDATE

Progress against the agreed scope

Completed work and evidence since the last PSG

Changes, risks and decisions for the group

2.2 Project Leader research findings

Reports, papers and case study summary. References: Attachments C, D and E.

Research presentation section

2.2 Case studies: Project 2.11.2 overview

Project Leader: Peng Wu, Curtin University Reference: Attachment C

Case study context	Status update	Requirements for discussion
1. Best Practices for Implementing an ICDM TfNSW, QLD DTMR, Main Roads WA | Infrastructure ICDM architecture, adoption guidelines and pilot workflows	[On track, delayed, ahead]	[Practice implication and proposed next step]
2. Integration of 12d Civil Models into MetaBIM Sunshine Coast Council | Infrastructure 12d–MetaBIM data exchange, digital twin use and guidance	[On track, delayed, ahead]	[Practice implication and proposed next step]
3. Digital Modelling of Lifecycle Carbon of Property Assets Dept of Housing and Works WA | Building & Housing AI-based lifecycle carbon framework and retrofit benefit–cost analysis	[On track, delayed, ahead]	[Practice implication and proposed next step]
4. Multi-class Road Asset Detection using LiDAR Main Roads WA | Infrastructure Open-source LiDAR and imagery AI for road asset segmentation	[On track, delayed, ahead]	[Practice implication and proposed next step]

2.3 New project partners and funding

2.4 Future work plans and deliverables

Project Leader. Reference: Attachment F, Project Timeline.

Deliverables	Status update	Planned completion	PSG input needed
Literature review	Draft completed and shared via PSG page – to be finalised following case studies and feedback from PSG	March 2027	Feedback on literature review shared via PSG page
Case studies	Scope confirmed, interviews underway and draft report to be completed in Q1 2027	June 2027	Partner input
Research outputs	Paper presented as XXX conference September 2026	To confirm	Agree priorities

2.5 Delivery & payment milestone schedule

Project Leader. Executed Project Agreement v6 (s4.2, s6.5); no variations supplied. Excl. GST.

PSG review checkpoint	Contracted deliverable / milestone	Payment amount	Payment due	Approval status
#3 19 Oct 2026	Quarterly Report 2; Industry Partner Engagement Sessions as agreed by SBEnrc	$40,000 (20%) Curtin $26k | WSU $8k | UQ $6k	26/10/2026	To confirm
#4 8 Feb 2027	Quarterly Report 3; Research and Case Study Summary Presentations; Draft Uptake and Impact Report	$40,000 (20%) Curtin $26k | WSU $8k | UQ $6k	15/02/2027	To confirm
#5 10 May 2027	Half Year Review; Quarterly Report 4; Industry Dissemination Outputs (Project Website); Knowledge Transfer/Industry Adoption Plan; Draft Research and Industry Reports	$40,000 (20%) Curtin $26k | WSU $8k | UQ $6k	17/05/2027	To confirm
#6 9 Aug 2027	Quarterly Report 5; Final Industry and Research Reports (pre-approval); Communications package; Final Uptake and Impact Report	$20,000 (10%) Curtin $13k | WSU $4k | UQ $3k	30/09/2027	To confirm

IMPORTANT

PSG to confirm milestones have progressed to a satisfactory level to release payment milestone to research team

3.1 Partner pathways from research into practice

3.2 Potential barriers to implementation

3.3 Project uptake and impact reporting

All members, led by the Chair

Barrier to confirm	Effect on implementation	Proposed response	Owner
[Partner-identified barrier]	[Consequence or dependency]	[Agreed response]	[Name]
[Partner-identified barrier]	[Consequence or dependency]	[Agreed response]	[Name]
[Partner-identified barrier]	[Consequence or dependency]	[Agreed response]	[Name]

4.1 Communication Plan

Project Leader. Reference: Attachment G.

Audience	Description	Channel	Date
Core Partners	Atlas visit	Partner event (internal)	Jun-26
Core Partners	MRWA visit	Partner event (internal)	Jul-26
Core Partners	TfNSW presentation	Partner event (internal)	TBC
Core Partners	Atlas visit	Partner event (internal)	Sep-26
Core Partners	MRWA presentation	Partner event (internal)	Sep-26
Not specified in plan	SBEnrc Workshop	Industry event	TBC
Industry & Research Partners	Not specified in plan	Publication – project updates	TBC
Industry & Research Partners	Not specified in plan	Partner internal communications	TBC
Industry & Research Partners	Distribute project Fact Sheet through industry and research partners	Fact Sheets	TBC
LinkedIn	SBEnrc LinkedIn page + project stakeholders' LinkedIn pages	LinkedIn	TBC

5.1 Scaling research funding and impact

5.2 Student involvement in the project

5.3 Connections to international initiatives

Project Leader

Student / institution	Training or research role	Project contribution	Outputs / timing
Qindong Li Curtin University	Part-time PhD candidate; placement with Main Roads WA	Addressing Main Roads' practical challenges (PSG#2 notes)	To confirm with Project Leader
[Additional student]	[Training or research topic]	[Contribution]	[Outputs / date]

6.1 Any other business

6.2 Further comments from the PSG

6.3 Actions arising from this meeting

Project Leader or representative

Ref.	Agenda item	Agreed action	Owner	Due date	Status
01	[Item]	[Record agreed action]	[Name]	[Date]	[Status]
02	[Item]	[Record agreed action]	[Name]	[Date]	[Status]
03	[Item]	[Record agreed action]	[Name]	[Date]	[Status]
04	[Item]	[Record agreed action]	[Name]	[Date]	[Status]

7.1 Next PSG meetings

Project 2.11.2. Published schedule from the supplied PSG #3 agenda.

Meeting	Date	Time in Western Australia
PSG #03	19 October 2026	09:30–11:00 AWST
PSG #04	8 February 2027	09:30–11:00 AWST
PSG #05	10 May 2027	09:30–11:00 AWST
PSG #06	9 August 2027	09:30–11:00 AWST

Calendar invitations: Research@sbenrc.com.au

Project Steering Group Meeting

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MEETING CLOSE

Thank you all for your time and input

Chair:

Andrew Curthoys, Chair,

Australian BIM Advisory Board (ABAB)

Project Leader:

Peng Wu, Professor,

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