We are Built Digital South Australia BDSA

Welcome to the Built Digital SA Launch Event
Thursday 30th March 2023
The Gallery

The Built Digital SA (BDSA) Team acknowledge the Aboriginal and Torres Strait Islander People as the traditional Custodians of the land on which we live and work.

We would like to pay respect to our elders past, present and future.

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Wi3

Built Digital SA

The intention of the group is to act as a conduit between industry and technology by giving attendees to our events updates on the BIM, Digital Engineering and wider digital initiatives occurring locally and internationally.

Built Digital SA goes beyond just basic digital delivery and looks at wider global impacts around digital and we provide insight and opportunity to educate, learn and share ideas across a multi disciplinary network.

We Support
We Educate
We Collaborate

Meet the Committee

The BDSA core team believes in business transformation through BIM & digital leadership.

Rebecca De Cicco
BDSA Director

Stewart Caldwell
BDSA Director

Nicole De Cicco
BDSA Management

Matt Rumbelow
Member

Joseph Sifostratoudakis
Member

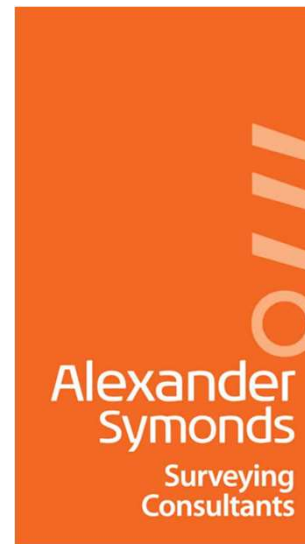**Vesal Rafiei**
Member

Thank you to our 2023 Sponsors

Get in touch at info@builtdigitalsa.com.au to discuss
2023 Sponsorship options and help support industry.

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What and who are Built Digital South Australia
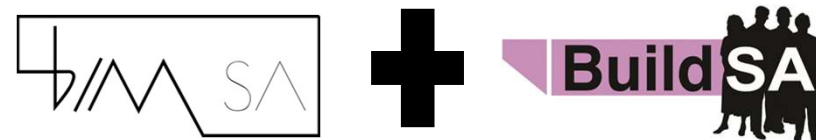
The world as we know it is changing. Impacts such as global populations, energy and environmental concerns are all at the forefront of government policy.

Here in SA we acknowledge the impact that digital is making on the built environment and we felt that as a community group and organisation we are able to influence change and provide insight to industry in this space.

Importance of Digital across the Built Environment

BIM and Digital Engineering

We recognise that BIM and Digital Engineering is only one part of the requirements demanded by clients

Digital and Data focused twins

The focus on data and digital twin outcomes is becoming more and more common place across industry

The Digital Built Environment

Smart Cities and urban digital landscapes

The impact of digital assets and how we utilise them is a key consideration in smart cities and communities

Our work, commitment and approach

We will host a variety of events on these themes, bringing together, private and public clients, supply chain and varying authorities to ensure our topics remain relevant.
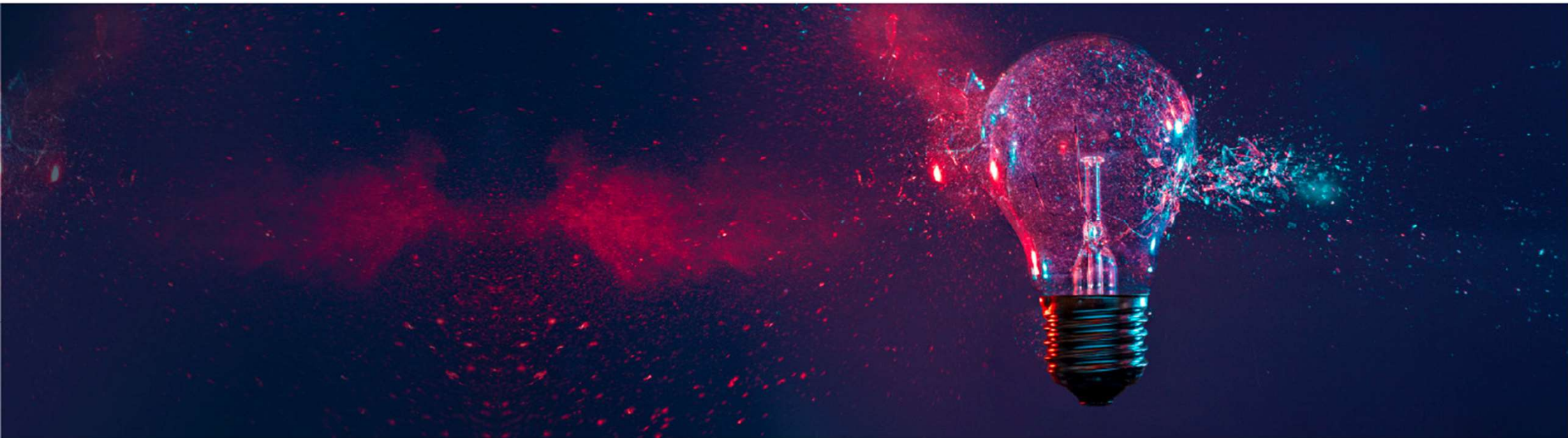
BDSA Event Survey Summary

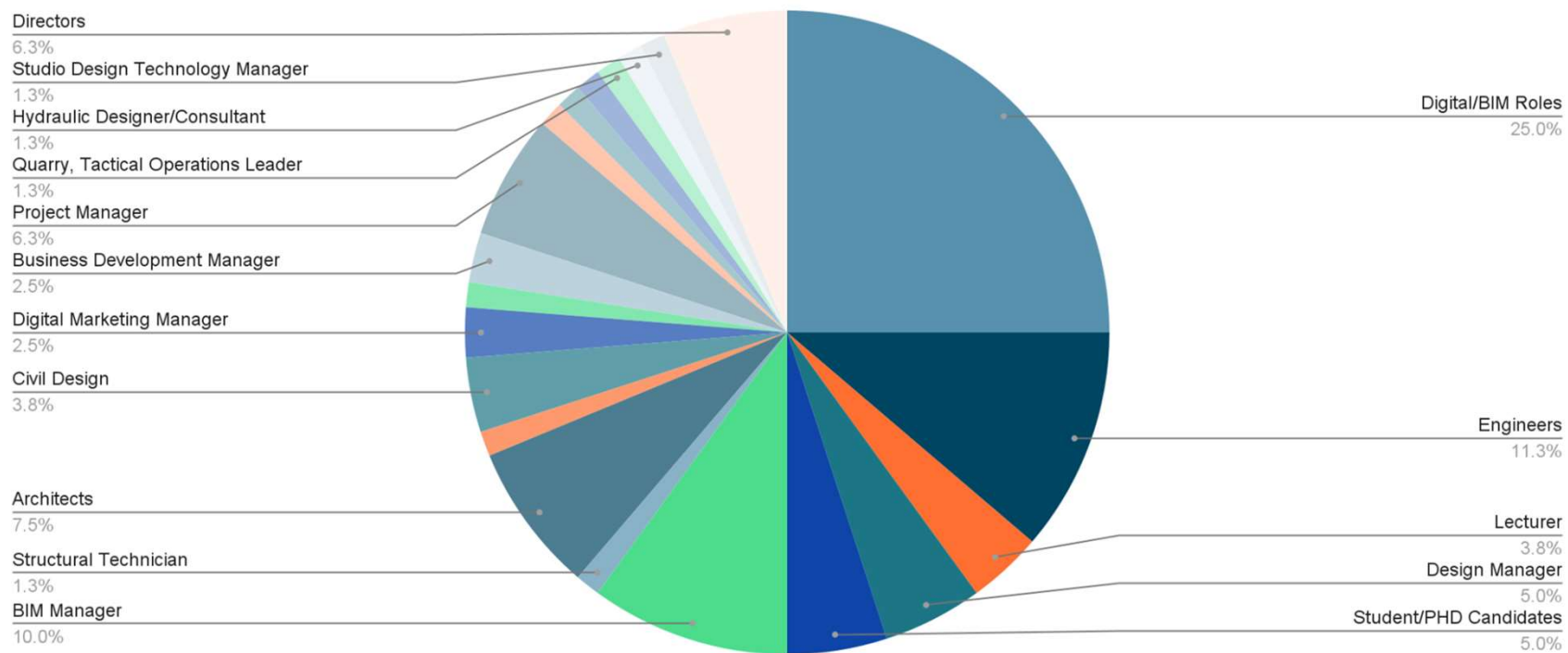BDSA Event Survey sent out to industry via member database & socials.

Survey included:
Personal details
Type of Events
Topics for Events

81 responses collected from industry

Winner of $150 Apple Gift Card announced after our speakers!!

Survey Engagement - Roles

Points scored

- Directors — 6.3%
- Studio Design Technology Manager — 1.3%
- Hydraulic Designer/Consultant — 1.3%
- Quarry, Tactical Operations Leader — 1.3%
- Project Manager — 6.3%
- Business Development Manager — 2.5%
- Digital Marketing Manager — 2.5%
- Civil Design — 3.8%
- Architects — 7.5%
- Structural Technician — 1.3%
- BIM Manager — 10.0%
- Digital/BIM Roles — 25.0%
- Engineers — 11.3%
- Lecturer — 3.8%
- Design Manager — 5.0%
- Student/PHD Candidates — 5.0%

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Survey Engagement - Topics

Answered: 81   Skipped: 0

BIM and Digital...
Information Management
Digital Twins & Smart Cities
Change management &...
Diversity in the Built...   21 (25.93%)
Capability uplift and...
Sustainability
None of the above
Other (please specify)

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
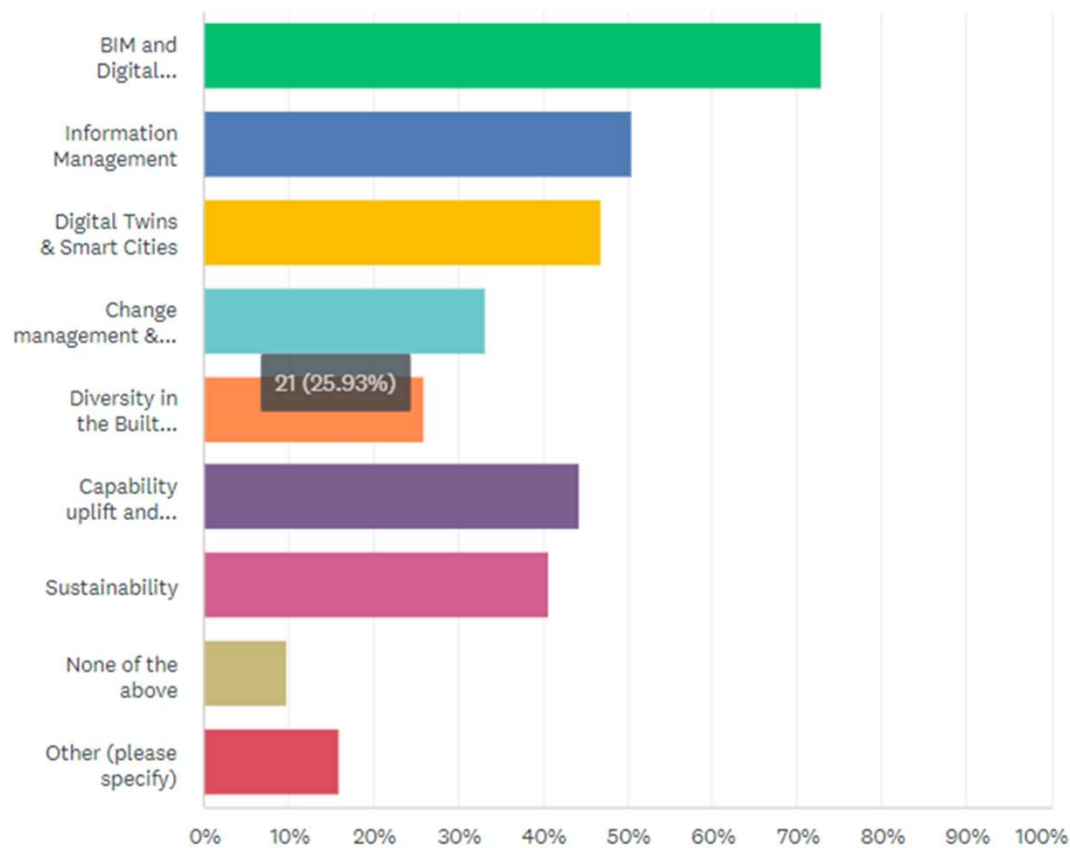
Survey Engagement - Topics Expanded

Tangible policy/requirements changes affecting projects

BIM and landscape architecture. Especially up-skilling to the latest software

Role of government in mandating use of BIM/DE;

Industry case studies;

Modular design & construction practices

Diversity in tech and digital, Programming

Building product innovation

BIM platforms and interoperability

Design automation, advanced data analytics & visualisation, application of AI & ML tools

Dynamo / Generative Design

2023 Event Timeline

BDSA Launch Night Networking Event	30/03/2023
BDSA Lunch Event	3/05/2023
BDSA Webinar #1	1/06/2023
BDSA Lunch Event	28/06/2023
BDSA Webinar #2	27/07/2023
BDSA Night Networking Event	24/08/2023
BDSA Webinar #3	12/10/2023
BDSA Christmas Networking Event	7/12/2023

Upcoming Events

If you are new to networking within the BIM & digital construction community, there has never been a better time to start!

Particularly during the pandemic crisis, there was a need for being part of a community. We warmly welcome visitors to our in-person and virtual events, where you can meet like-minded professionals within the construction industry with shared common interests.

Today's Agenda

Rebecca De Cicco, from Women in BIM & Aurecon
*Industry Update & Women in BIM Update 2023*

Andrew Curthoys (virtual), from Australasian BIM Advisory Board (ABAB) & Cross River Rail
ABAB and the Opportunities that Digital Enablement Provide – Why a Consistent Approach is Required

Daniel Osborne, from Arup
How emerging digital tools, data and computational power is reshaping the way we plan our built environment

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Industry Update

NATSPEC National BIM Guide Release 2022
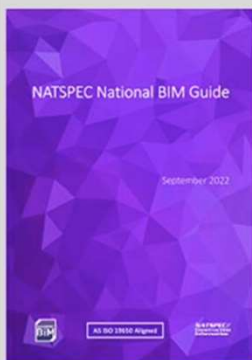
NATSPEC National BIM Guide

The Guide's core document covers topics including:

- Issues such as industry BIM requirements, BIM capabilities and education.
- An introduction to key AS ISO 19650 concepts and principles including appointing parties, appointed parties, teams, defining information requirements, common data environments (CDE).
- General implementation considerations such as procurement strategies, roles and responsibilities, legal and contractual aspects, and information security.
- Information management practice based largely on AS ISO 19650.
- Modelling practice including model set-up, federation and coordination.
- BIM uses including cost management and asset management.
- Technologies and methodologies that add further value to BIM such as laser scanning, augmented reality, digital fabrication, GIS digital set-out, and IoT.
- BIM deliverables.
- Technology and project infrastructure to support BIM
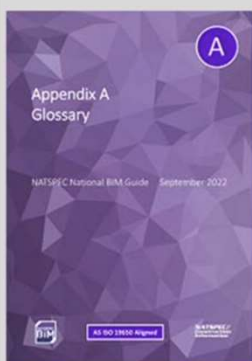
Appendices

Reference documents providing more detailed information and guidance on topics found in the Guide. They also provide guidance and resources for using the Templates. There are currently four appendices:

- **Appendix A – Glossary**: Includes definitions and explanations of terms and abbreviations used in the Guide.
- **Appendix B – AS ISO 19650 Resources Descriptions**: Includes brief descriptions of documents and resources that support the information management processes described in AS ISO 19650.
- **Appendix C - BIM Use & Enabler Descriptions**: Includes descriptions of BIM uses and enablers including their potential value, scope considerations and useful references that can be used as a resource when selecting and specifying BIM uses for a project.
- **Appendix D - Defining Information Requirements**: Includes guidance and resources for using the information requirements templates.

Templates

Editable templates for specifying project-specific requirements. Guidance to assist users is incorporated throughout. There are currently four templates:

- **Asset Information Requirements (AIR) Template**: (AS ISO 19650 aligned) For specifying the asset information required by the client/appointing party for decision making during the operational phase of built assets.
- **Project Information Requirements (PIR) Template**: (AS ISO 19650 aligned) For specifying the information required by the client/appointing party for decision making during the delivery phase of built assets.
- **Exchange Information Requirements (EIR) Template**: (AS ISO 19650 aligned) For specifying appointment-based information requirements derived from the AIR and PIR.
- **Project BIM Brief (PBB) Template**: This serves a similar function to the PIR and EIR templates. Useful for simpler projects and eliciting a BIM brief from clients.

All documents can be freely downloaded from the NATSPEC BIM Portal
https://bim.natspec.org/documents/natspec-national-bim-guide

Users of the Guide are encouraged to email NATSPEC with any suggestions for improving it to bim@natspec.com.au Your suggestions could benefit many others in the industry.

BD-104 *BIM*

SA Mirror Committee of ISO TC 59/SC 13
ISO: International Organization for Standardization
TC 59: Technical Committee 59 *Buildings and civil engineering works*
SC 13: Subcommittee 13 *Organization of information about construction works*

Current workings

BD-104 Working group current projects

ISO 19650-6 – Health and Safety – 2024 publication

ISO/DIS 7817 Building information modelling – Level of information need – Concepts and principles

ISO 19650-4 Published 2022

ISO 19650-4 was published in 2022 to support the detailed processes and requirements for decision making when executing an information exchange on a construction project.

This document details the concepts and application of any information exchange within the delivery stages and operational stages of built assets.

ISO 19650-4 forms part of the wider 19650 suite of standards, published to enforce consistency and efficiency when applying and implementing BIM.

INTERNATIONAL STANDARD

ISO 19650-4

First edition 2022-08

Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling —

Part 4: Information exchange

Organisation et numérisation des informations relatives aux bâtiments et ouvrages de génie civil, y compris modélisation des informations de la construction (BIM) — Gestion de l'information par la modélisation des informations de la construction —

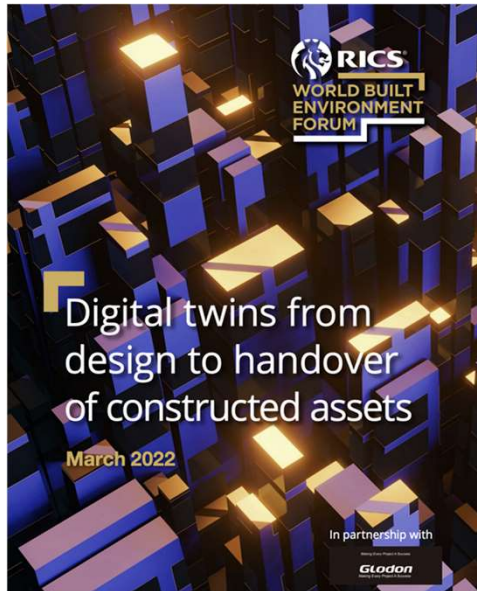*Partie 4: Échange d'informations*
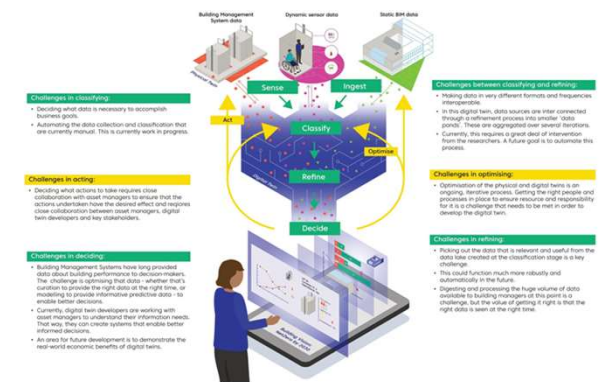
Reference number
ISO 19650-4:2022(E)

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Uptake of Digital Twin Outcomes

In Australia alone we are seeing many clients (public and private sector) discussing the implementation of the Digital Twin outcomes/ implementation of Digital Twin technology.

Key References for support:

Communities driving these across Government / recommendations.

Importance - United Nations Sustainability Goals

5 GENDER EQUALITY

Momentum leading up to 2030 must translate promises into action on gender equality

The latest available SDG 5 data show that the world is not on track to achieve gender equality by 2030. Despite progress in reforming laws, closing gaps in legal protections and removing discriminatory laws could take up to 286 years based on the current rate of change. COVID-19 and the backlash against women's sexual and reproductive health and rights are further diminishing the outlook for gender equality. Violence against women remains high, global health, climate and humanitarian crises have further increased risks of violence, especially for the most vulnerable women and girls, and women feel more unsafe than they did before the pandemic. Women's representation in positions of power and decision-making remains below parity. Nearly halfway to the 2030 endpoint for the SDGs, the time to act and invest in women and girls is now.

5 GENDER EQUALITY

Target 5.5

Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life

5.5.1
Proportion of seats held by women in (*a*) national parliaments and (*b*) local governments

5.5.2
Proportion of women in managerial positions

Women in BIM

A powerful collaborative network

BDSA supports the Women in BIM initiative and aims to provide links to Women in BIM related roles all over the world in order to address key areas:
1. Encouraging & supporting women
2. Attracting Young Women into Industry
3. Celebrating Women leaders
4. Retainment of Women in BIM

www.womeninbim.org

WIB objectives and core drivers.

Encourage and Support.

Supporting one another is crucial as we strive to develop a more inclusive industry. Our network of Members is in place to support, share and encourage each other to grow their skills and take advantage of new opportunities across the world.

Attract and Promote.

We wish to attract women into BIM-related careers by showcasing role models and maintaining a support mechanism across our network. We also aim to help women excel in their careers by continuously boosting their confidence and expanding knowledge.

Advance and Retain.

Research shows that a number of women are leaving careers in construction after only a few years. WIB wish to celebrate women in BIM roles and provide opportunities for further advancement. This will help to increase the representation of women in senior construction roles.

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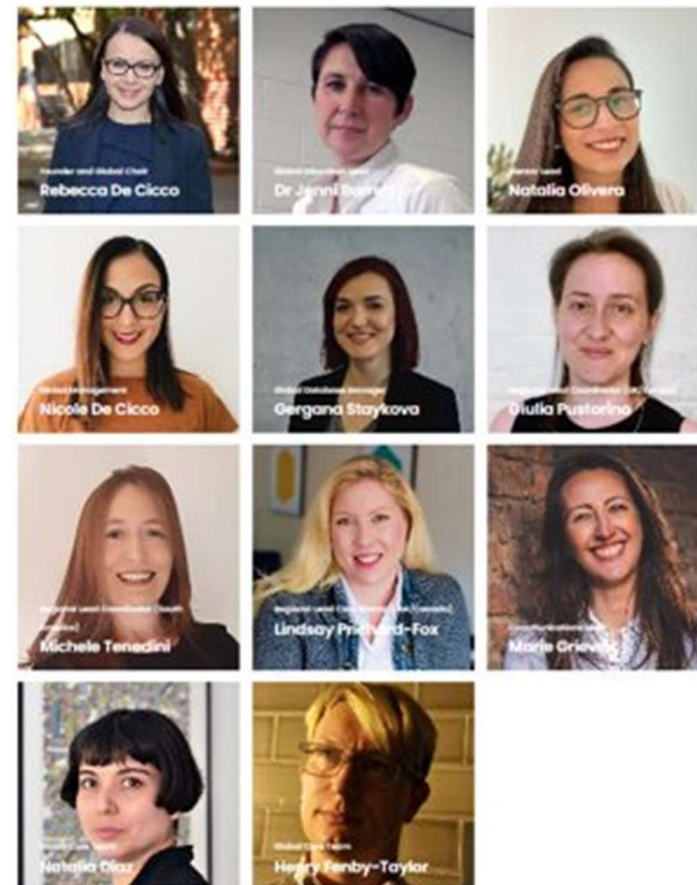
Global Executive Leadership Team

Women in BIM is made up of representatives across the globe who form part of our core team. Representing Australia, the UK, South America & North America

Our core team focus on differing regions, support networks and links to the wider industry through our engagements across the world.
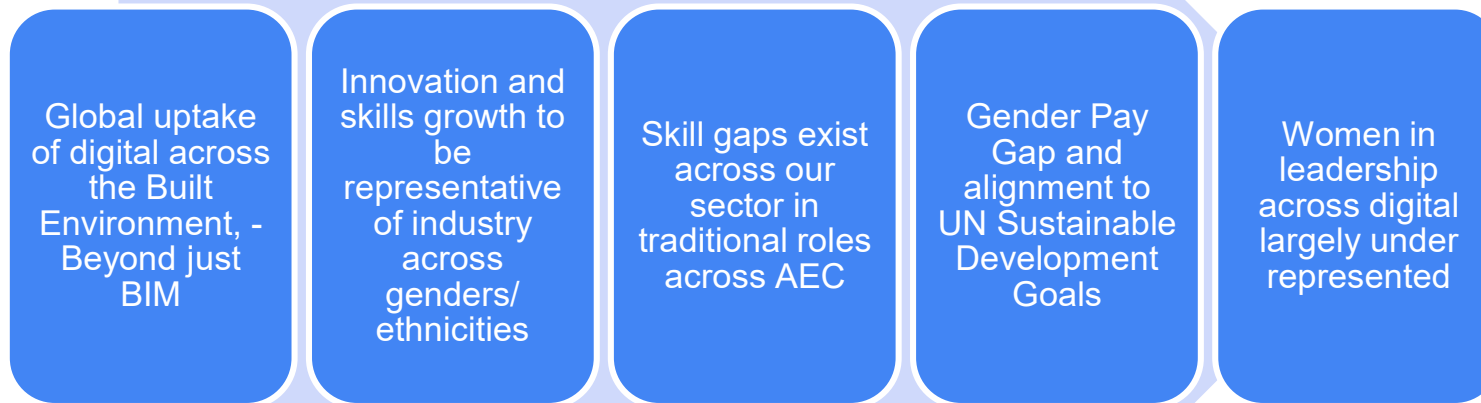
'Women in BIM truly responds to the requirements, desires and ambitions of women & people of minority genders in our sector, and as a global community we understand the requirements around digital across all areas of the built environment'. Rebecca De Cicco

Meet the global core team behind Women in BIM.

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Importance to Women in BIM

Global uptake of digital across the Built Environment, - Beyond just BIM

Innovation and skills growth to be representative of industry across genders/ ethnicities

Skill gaps exist across our sector in traditional roles across AEC

Gender Pay Gap and alignment to UN Sustainable Development Goals

Women in leadership across digital largely under represented

WIB Projects to Support Industry

WIB Mentor Scheme

2020	2021	2022	2023
51 Mentors	51 Mentors	94 Mentors	232 Mentors
65 Mentees	85 Mentees	170 Mentees	368 Mentees
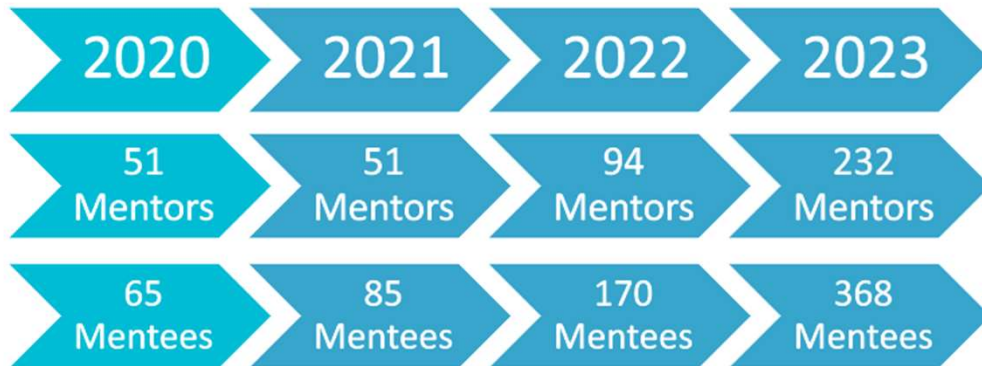
Now in our fourth year of the scheme, the numbers and requirements have continued to grow across our sector and community

womeninbim.org

WIB Roles & Responsibilities

This project came together as a result of the same types of conversations with our members across the globe around roles, responsibilities and remuneration in BIM and Digital Construction related roles.

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Andrew Curthoys (Virtual)

*Chair of the Australasian BIM Advisory Board (ABAB)
representing the APCC (Australasian Procurement &
Construction Council Inc)
Digital Delivery Manager, Cross River Rail*

*ABAB and the Opportunities that Digital
Enablement Provide – Why a Consistent
Approach is Required*

WINNER of the $150 Apple Gift Card!

Virtual Wheel of Names

Please join us for our next event

Wednesday May 03 12pm
Aurecon Offices Grenfell
Street, Adelaide

Format – Lunch and Learn
session including lunch and
speed networking

Register Here:

Thank you for attending the Built Digital SA Launch Event - Thursday March 30

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