

# Hi there!

## I'm Pamela Bell

Innovation Consultant: built environment, start-ups, + strategy.

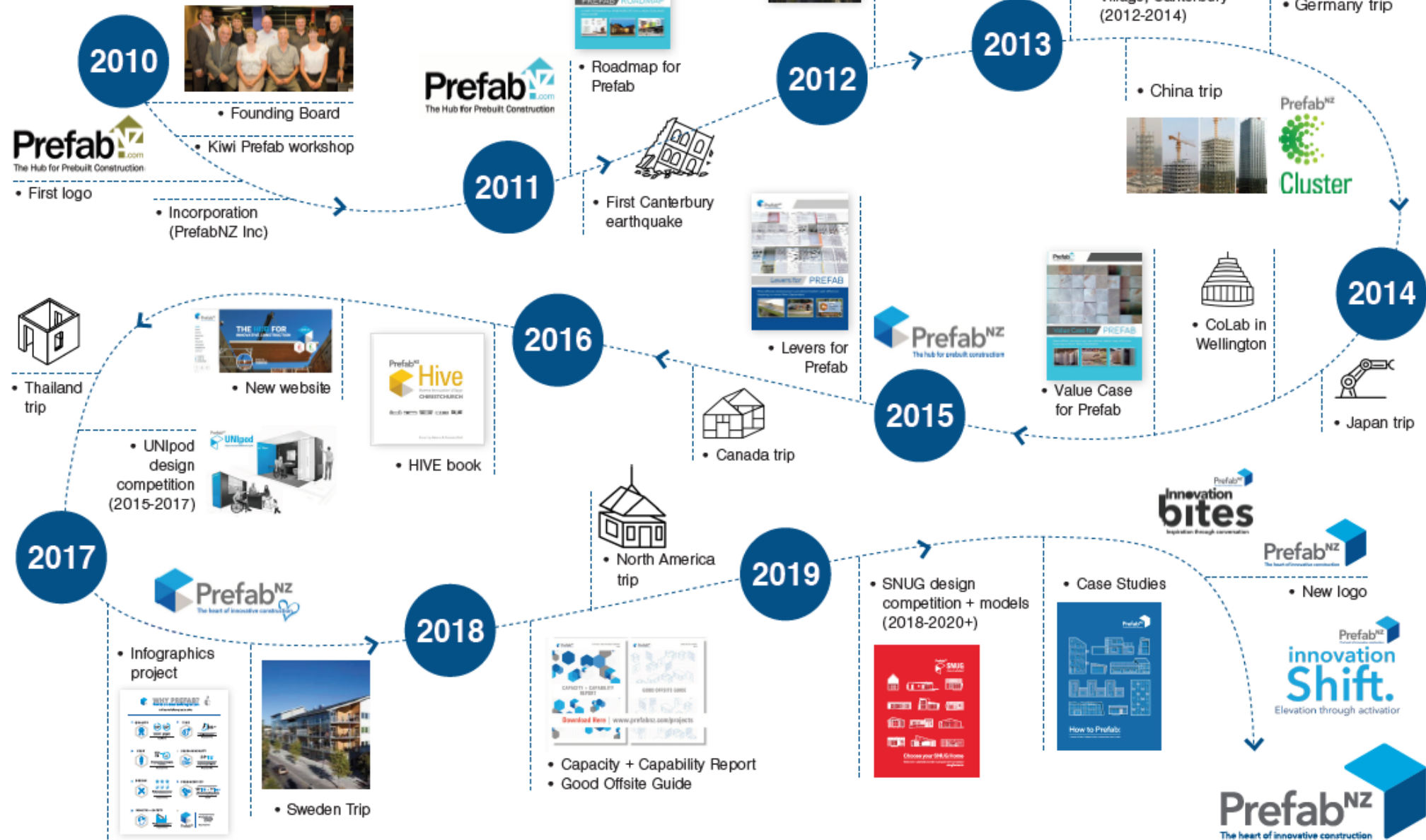






# The PrefabNZ Journey

2010 - 2019 and beyond...





Living Pa  
Te Herenga Waka  
Victoria University of Wellington













## KIA ORA

The NZ Institute of Building is the place where ambitious people from all across the construction industry transform, learn and connect.

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DIGITAL GUIDANCE SUITE:  
AOTEAROA | NEW ZEALAND 2023

# THE VALUE CASE FOR 'DIGITAL FIRST'

A Proposed Roadmap to Digital Maturity  
in the Built Environment



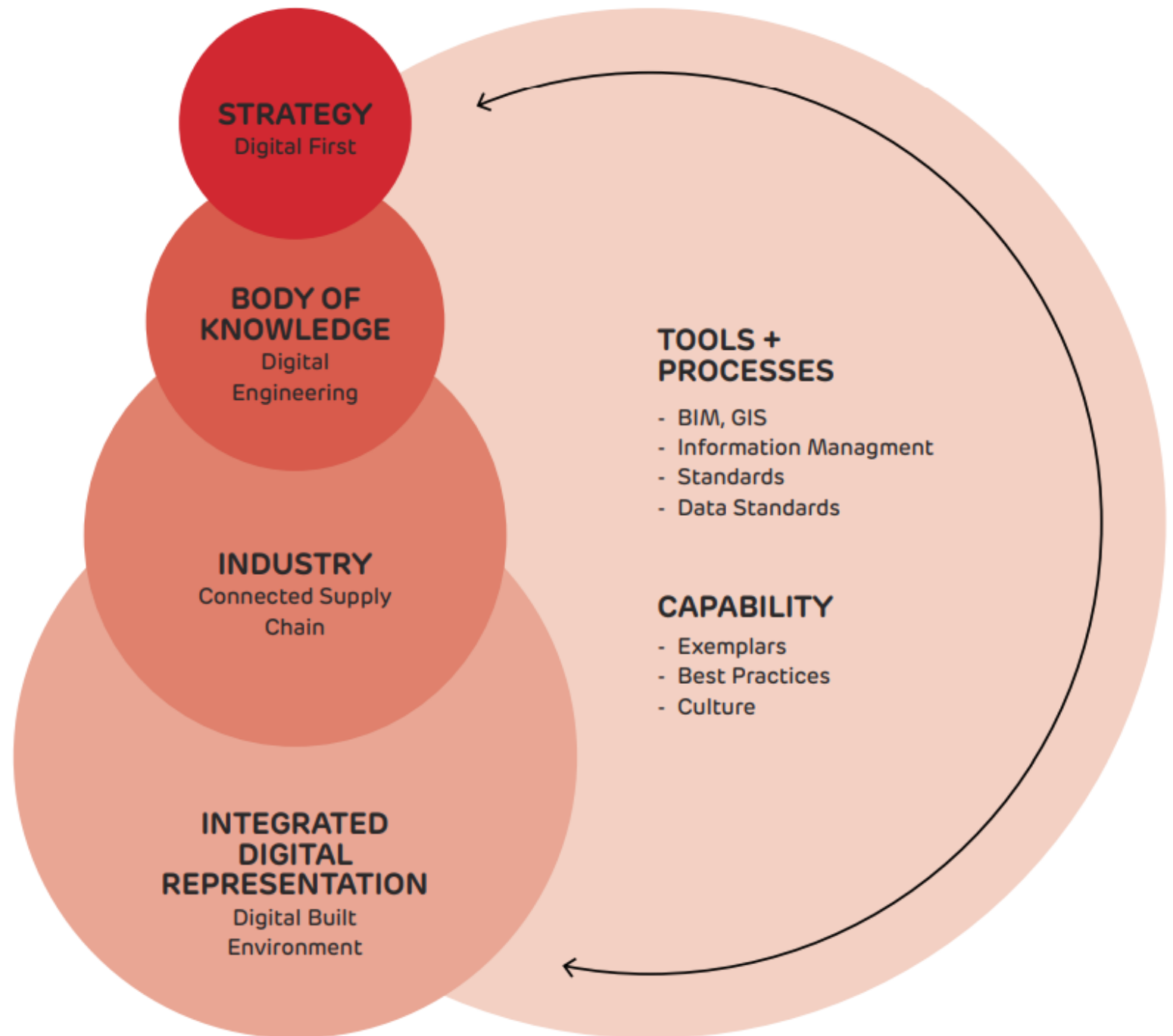
**BIM!** BETTER  
BUILDING PROCESS.  
BUILDING  
BETTER PERFORMANCE.





The overarching outcome of a 'digital first' approach is a construction and infrastructure sector that is informed by a common language, enabled by DE, and implemented via digital practices such as BIM.

The **potential future state** of the construction and infrastructure sector as our 'digital first' approach matures is a fully integrated digital representation of the built environment, which spans the full lifecycle of an asset, retains a data connection to the real world, and can be used effectively for analysis, prediction, and scenario development. A 'digital first' approach can evolve into or provide the basis for a National Digital Twin. The hierarchy of terms below represents a journey towards a digitally mature state.





# AUSTRALIA CASE STUDIES

Australia has reaped the rewards of learnings from the UK BIM programme. Beginning with policy and guidance relating to the adoption of BIM, the conversation has evolved more recently into the adoption of DE – supported by policy and leadership at industry and regional levels.

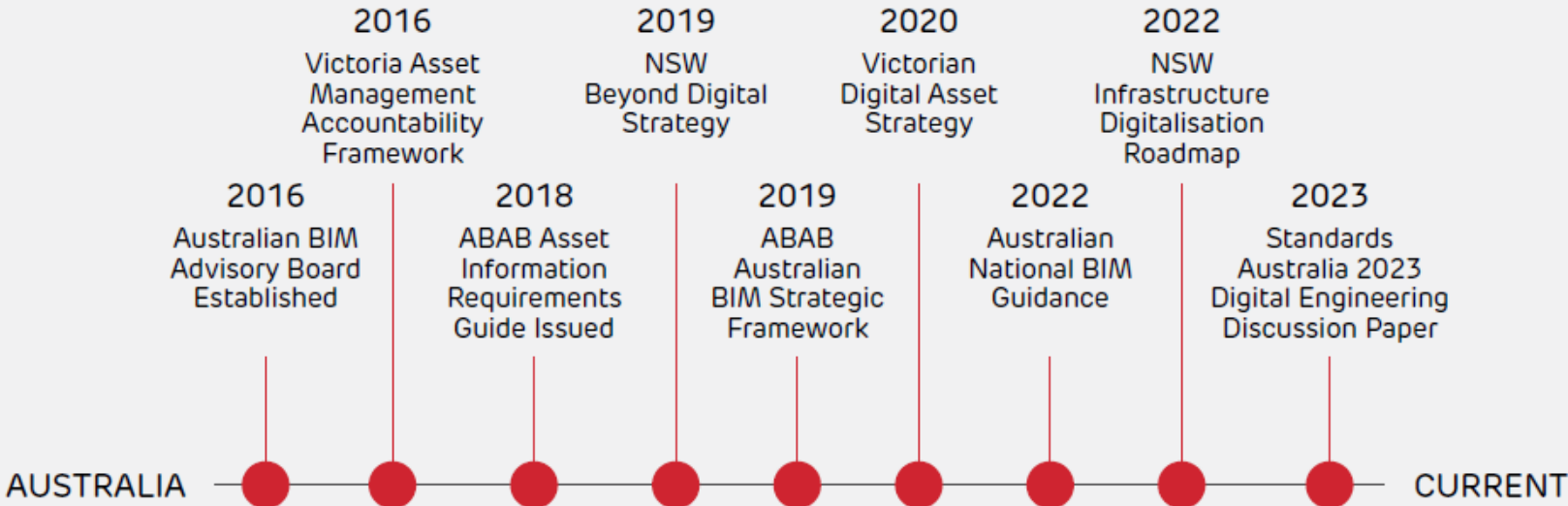
Recent policies published by Standards Australia set out a clear vision for leveraging a digital environment to bring individual state-led approaches closer together. A ‘digital first’ approach underpins significant regional policies, including the Victorian Digital Asset Strategy, in which an asset-management accountability framework for decision-

making provides the methodology for the way that built environment assets are planned, delivered and operated. This approach also provides the foundations for a Digital Twin of the state of Victoria.

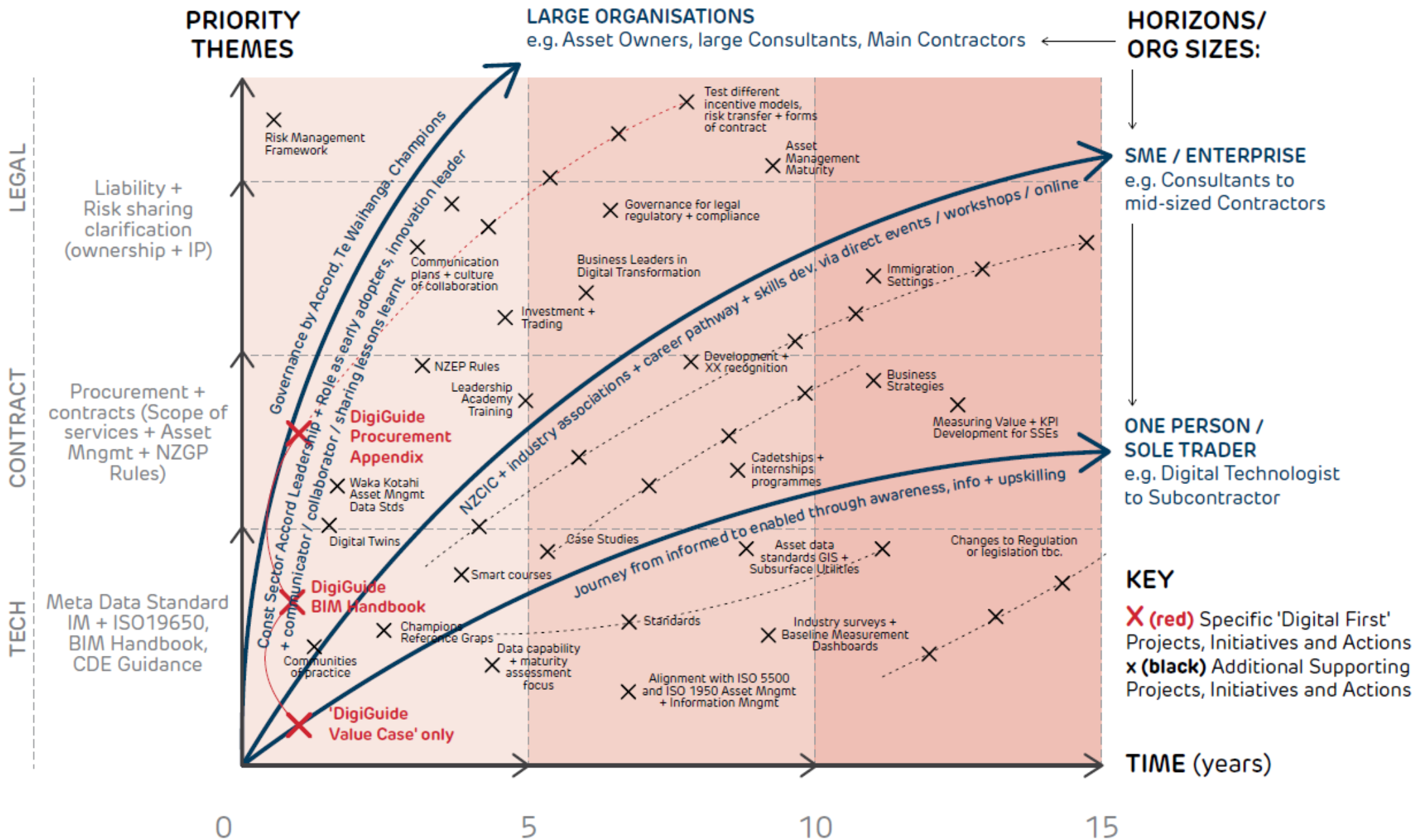
The diagram below sets out key documentation, policies and guidance developed across Australia. There is a significant amount of organisational and project-level documentation from recognised industry leaders such as Transport for NSW, the Victorian Government, and Cross River Rail to encourage uptake.



**A critical learning** is the process of sharing learnings collaboratively across organisations in both the private and public sectors, across states and within regions.











**NZ INSTITUTE OF BUILDING  
CONFERENCE 2025**

20 MARCH, AOTEA CENTRE  
TĀMAKI | AUCKLAND



# DigiComm<sup>25</sup>

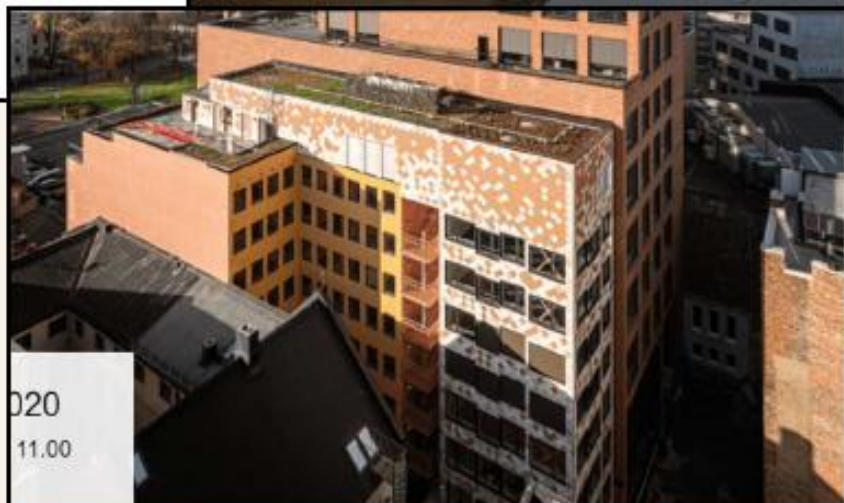
Growing our global digital  
community

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# Veidekke: Establishing a company for circular solutions

Loopfront provides a holistic platform for reuse of furniture, fixtures and building materials



020  
11.00

FutureBuilt anbefaler:  
Ombruk av byggevarer –  
et brukerperspektiv



Trøndelag fylkeskommune  
Trøndelagen fylhkentjelte



TRONDHEIM KOMMUNE  
Tråanten tjelte



Oslo Oslobygg KF



NTNU

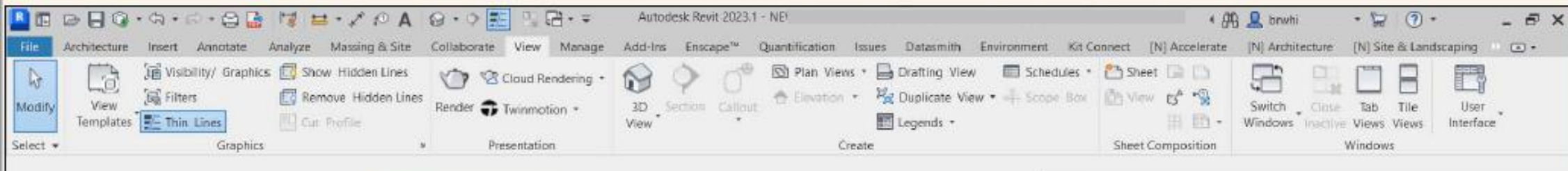


Direktoratet for forvaltning  
og økonomistyring









Properties

3D View

3D View: BREDE THIS ONE - NEW

Graphics

View Scale	Custom
Scale Value 1:	220
Detail Level	Medium
Parts Visibility	Show Both
Detail Number	1
Rotation on Sheet	None
Visibility/Graphics Overrides	Edit...
Graphic Display Options	Edit...
Discipline	Architectural
Show Hidden Lines	By Discipline
Default Analysis Display Sty...	None
Show Grids	Edit...
Visible In Option	all
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Extents

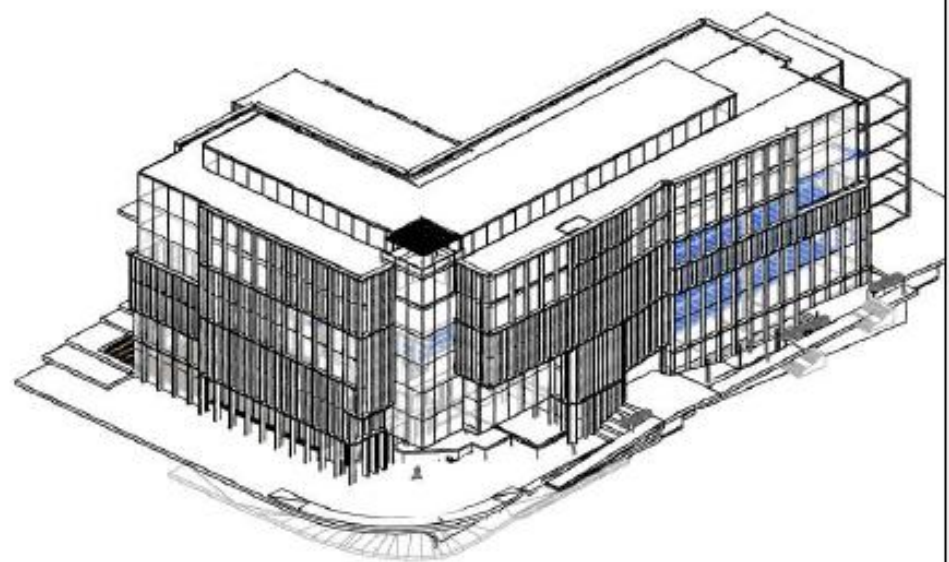
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Crop Region Visible	<input type="checkbox"/>
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Far Clip Active	<input type="checkbox"/>
Far Clip Offset	304900.0
Scope Box	None
Section Box	<input type="checkbox"/>

Camera

Rendering Settings	Edit...
Locked Orientation	<input checked="" type="checkbox"/>
Projection Mode	Orthographic
Eye Elevation	117068.1
Target Elevation	78694.1

Properties help

Apply



Tvin

← → PROJECTS EXPLORE FIND AND REPLACE RESERVATIONS LOG OUT

Categories

- All
- Beams
- Columns
- Covering
- Doors
- Ducts
- Furniture
- new\_other
- Other
- Windows

Filters

Favorites ☐

Provider: All

Color: All

Primary Material: All

**Hollowcore 266 pcs**  
1200 x 19500mm

+ Model + Favorite

**System ceiling 2588m2**  
600 x 600 mm

+ Model - Favorite

**DT Slabs 173 pcs**  
1200 x 23500mm

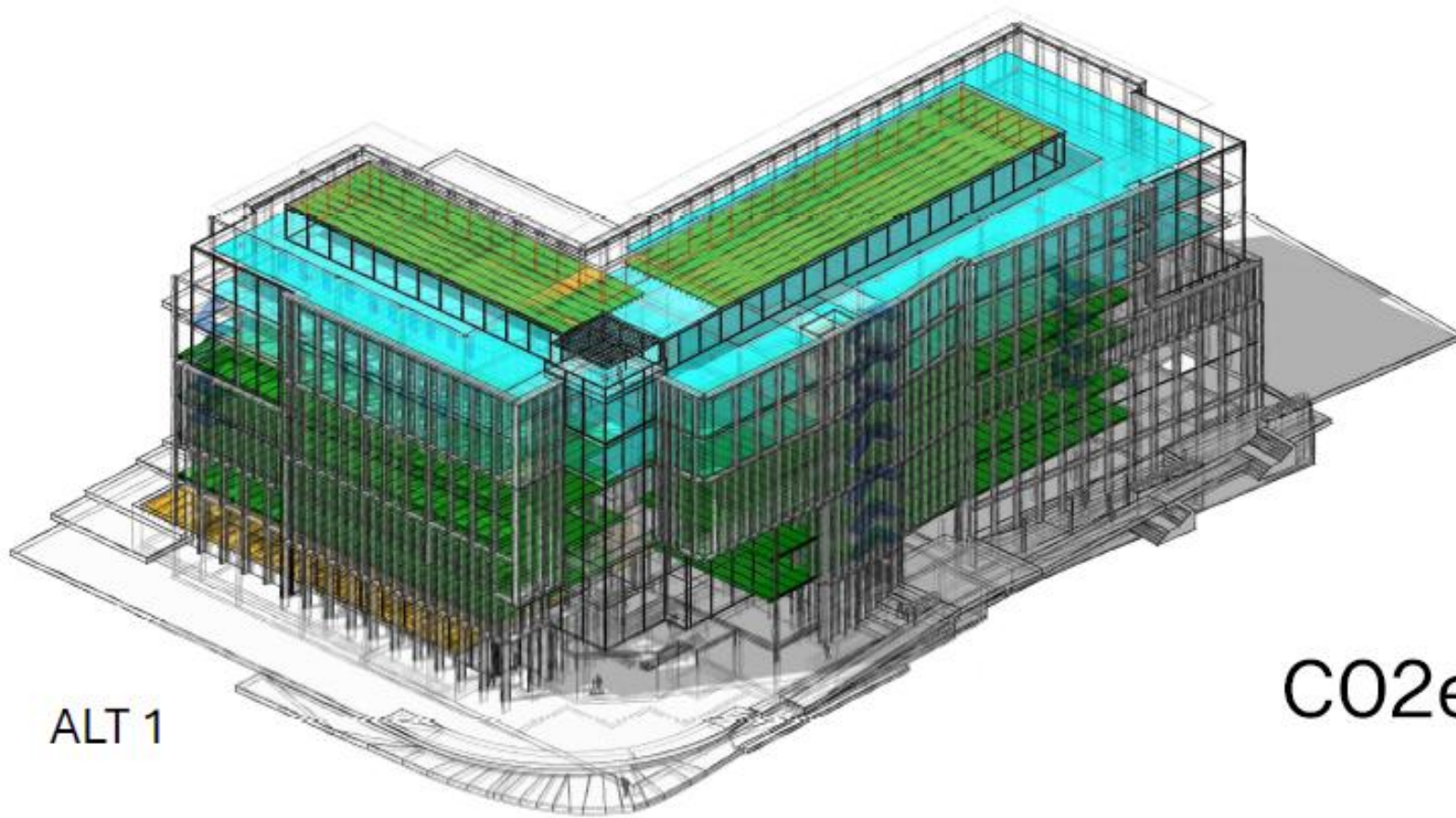
+ Model - Favorite

**Archive cabinet 52 pcs**  
400 x 600 x 1200mm

+ Model + Favorite

Design with reuse – library from donor building or marketplace





ALT 1

 CO<sub>2</sub>e = 2 520 000kg

**Bridget White** – Warren & Mahoney

**BuildUP24** presentation at [www.nziob.org.nz/Resource/](http://www.nziob.org.nz/Resource/)



# Construction Careers Pathways Project

Project Update

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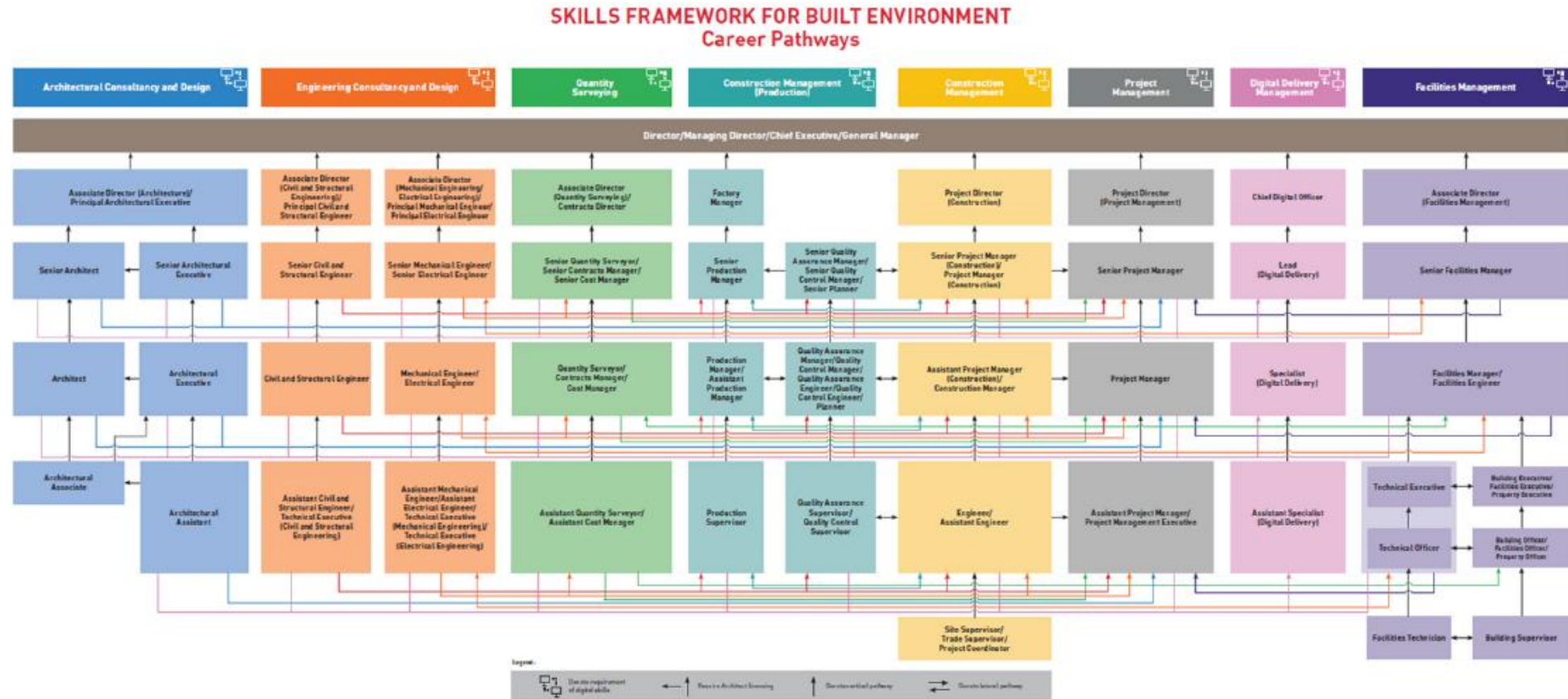
New Zealand Institute of Building  
December 2024





# Singapore model

- Starting point for the NZ Career Pathways Project
- Part of a 167-page report with detailed job descriptions and required skills and competencies



The Built Environment cluster also includes the Environmental Services, Landscape and, Security sectors, and Property Services sub-sector (please refer to the Council for Estate Agencies (CEA) website or go to [www.ced.gov.sg](#) for information on CEAs Continuing Professional Development (CPD) Framework which equips property agencies with the skills and key competencies to facilitate property transactions).

Built Environment practitioners who hold construction Workplace Safety and Health (WSH) roles may refer to the Skills Framework for WSH for more information.

The Career Map serves as a reference to reflect the available job roles and possible career pathways in the Built Environment sector, which may vary depending on each organisation's structure and business context. The career progression pathways would depend on individual performance, capability, experience, education, as well as organisational needs.



# Pathways Project Timeline Overview

