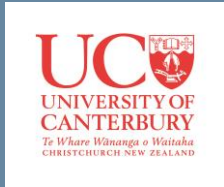


Building Innovation Partnership [BIP]



Larry Bellamy, Programme Leader

THEMES AND OBJECTIVES



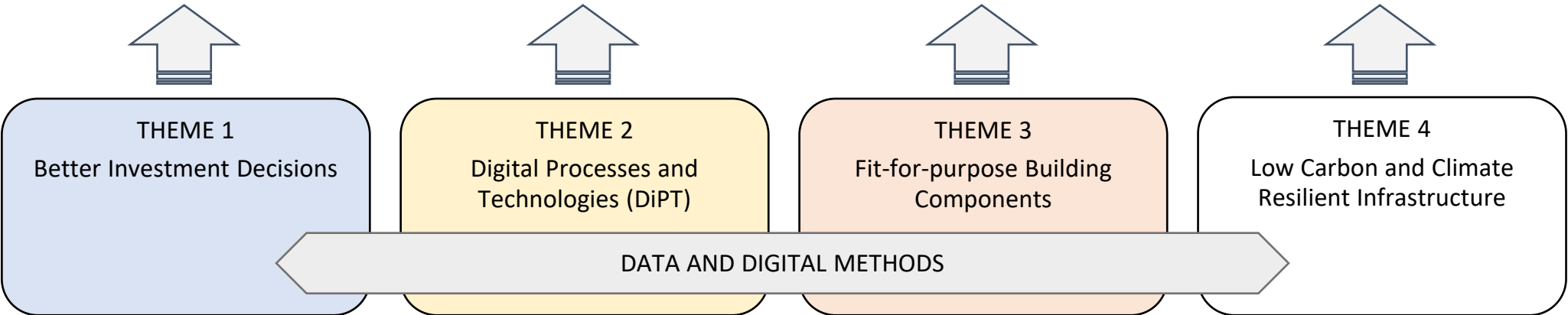
What are BIP's objectives?

To improve construction productivity and efficiency
To improve affordability and resilience of built infrastructure and help NZ achieve its infrastructure objectives

How will objectives be achieved?

New data-based tools to improve 3-waters decision-making
New guidance and digital tools to accelerate the uptake of DiPT
New design methods and technologies to improve non-structural building elements
New strategies and guidance to reduce CO_{2e} emissions from infrastructure

How is programme delivered?



ALIGNMENT WITH NZ INFRASTRUCTURE STRATEGY

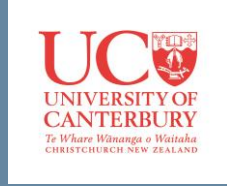
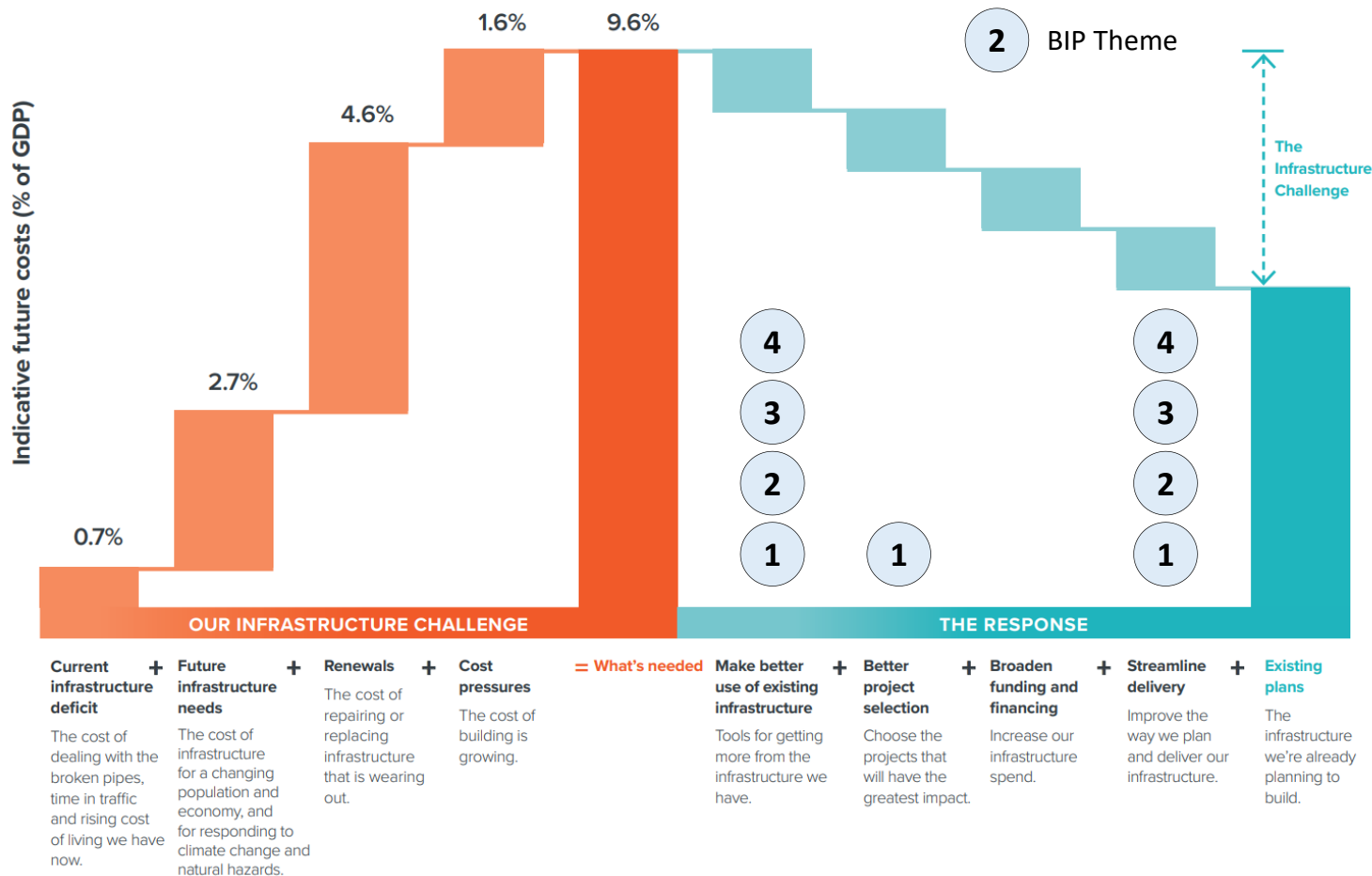
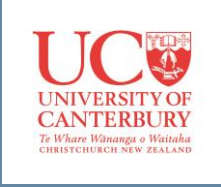


Figure 5: The challenge, the response [from NZ Infrastructure Strategy]



BIP's industry-led projects focus on NZ's infrastructure challenges

DIGITAL PROJECTS (Theme 2)

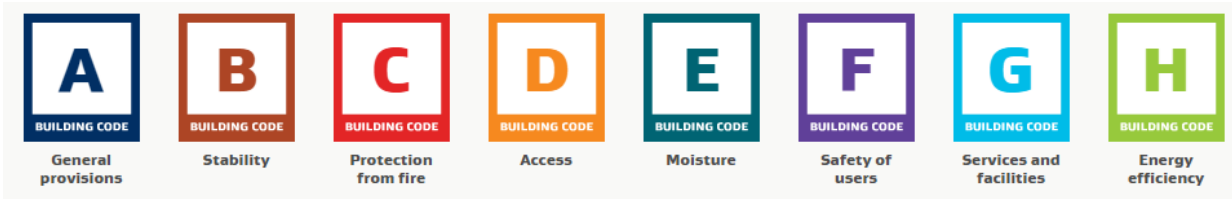


BIM for Health and Safety in Construction

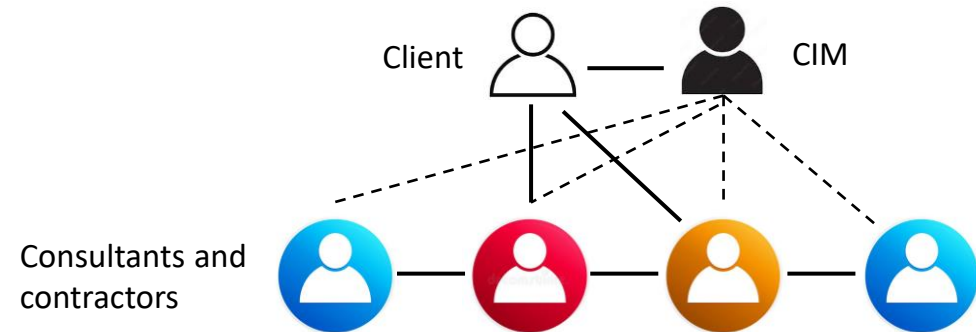


BIM for Fire Evacuation

Automated Building Code compliance checking

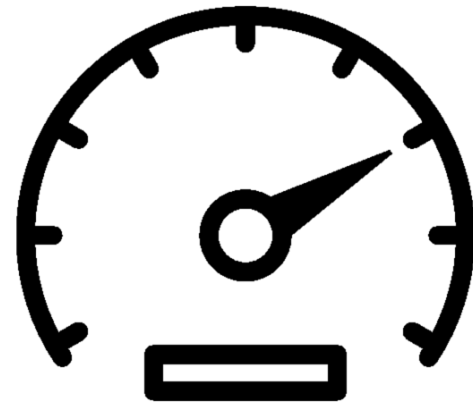


Client-facing information manager (CIM)



Asset Information Specification Tool

FUTURE DIGITAL PROJECTS (Theme 2)



Digital performance metrics?



BUILDING RESILIENCE PROJECTS (Theme 3)



PEMBINA
institute

Deep emissions reduction in the existing building stock

Key elements of a retrofit strategy for B.C.

Results from the November 2016 Thought Leader Forum

Tom-Pierre Frappé-Sénéclauze, Dylan Heerema, Karen Tam Wu
April 2017

Pathways to
**NET-ZERO
BUILDINGS**

real estate
foundation
BRITISH COLUMBIA

Whole-of-building approach to improve seismic retrofits of buildings in NZ



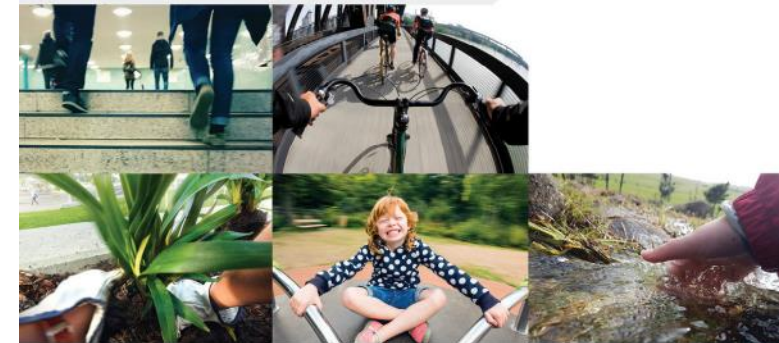
Techniques for the Seismic Rehabilitation of Existing Buildings

FEMA 547/2006 Edition



Economic Benefits of Code Compliant Non-Structural Elements in New Buildings

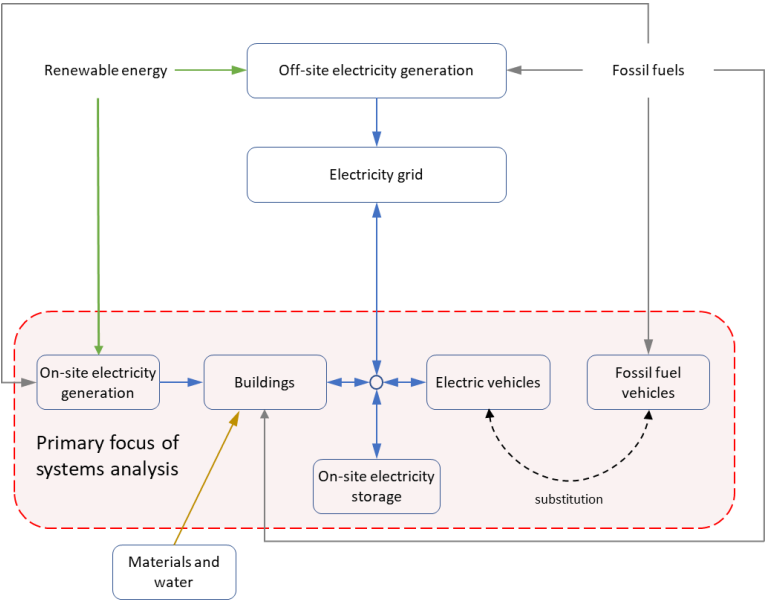
Ministry of Business, Innovation & Employment



CLIMATE PROJECTS (Theme 4)



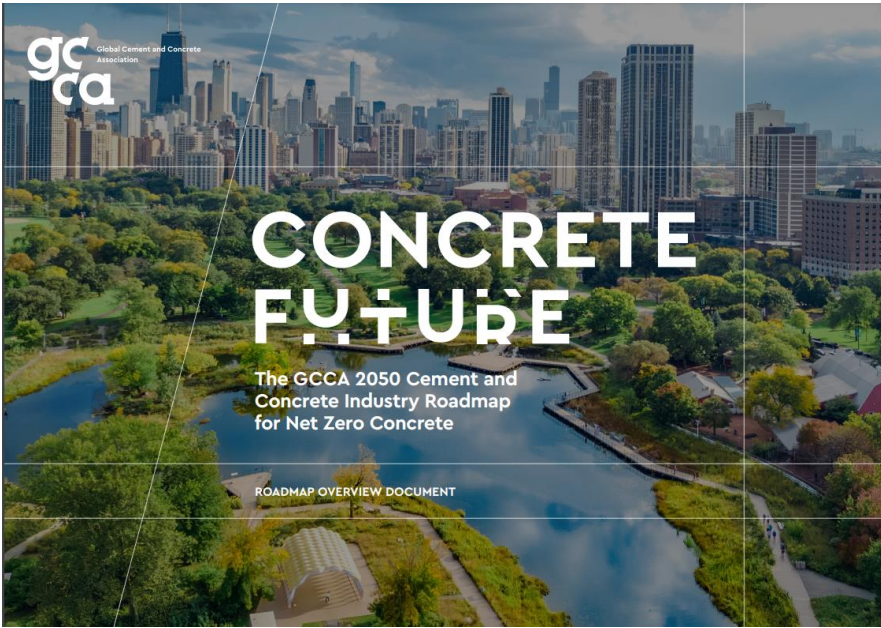
Pathways to Net-Zero Carbon Buildings and Communities



1. Decarbonisation of the electricity grid (D)
2. Electrification of building space and water heating (E)
3. Building efficiency improvements to reduce energy demand (E)
4. Digitalisation of buildings and electricity grids to improve energy management (D)
5. Electrification of vehicles (S)

Energy Retrofits of School Buildings

Roadmap to Net-Zero Carbon Concrete in NZ



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