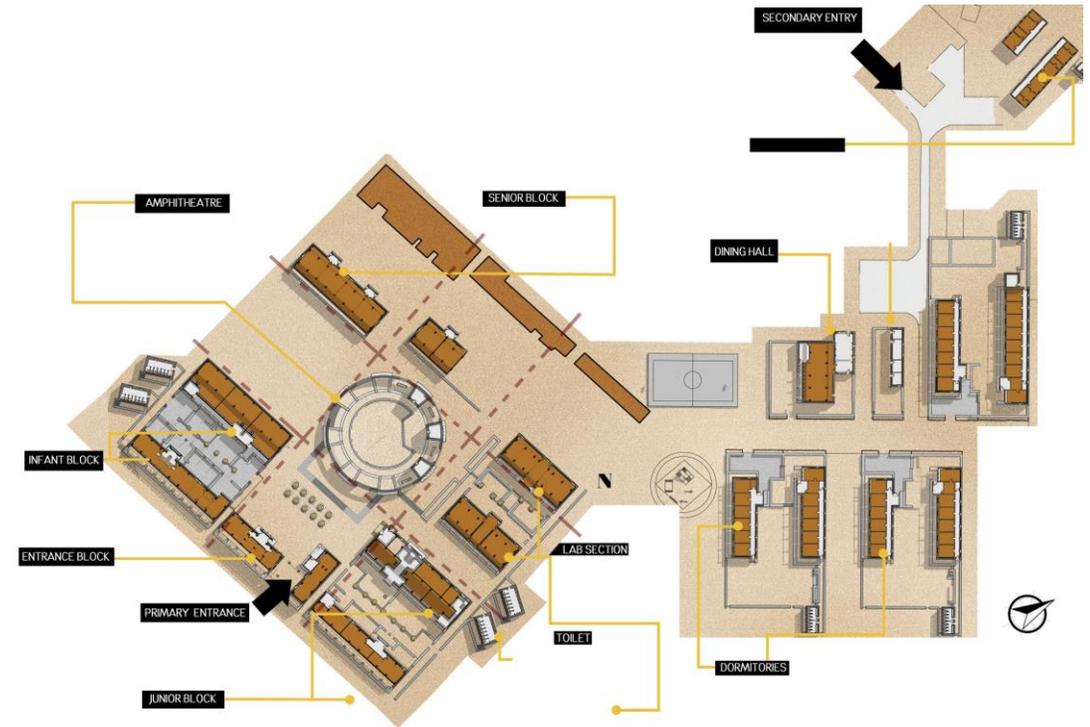


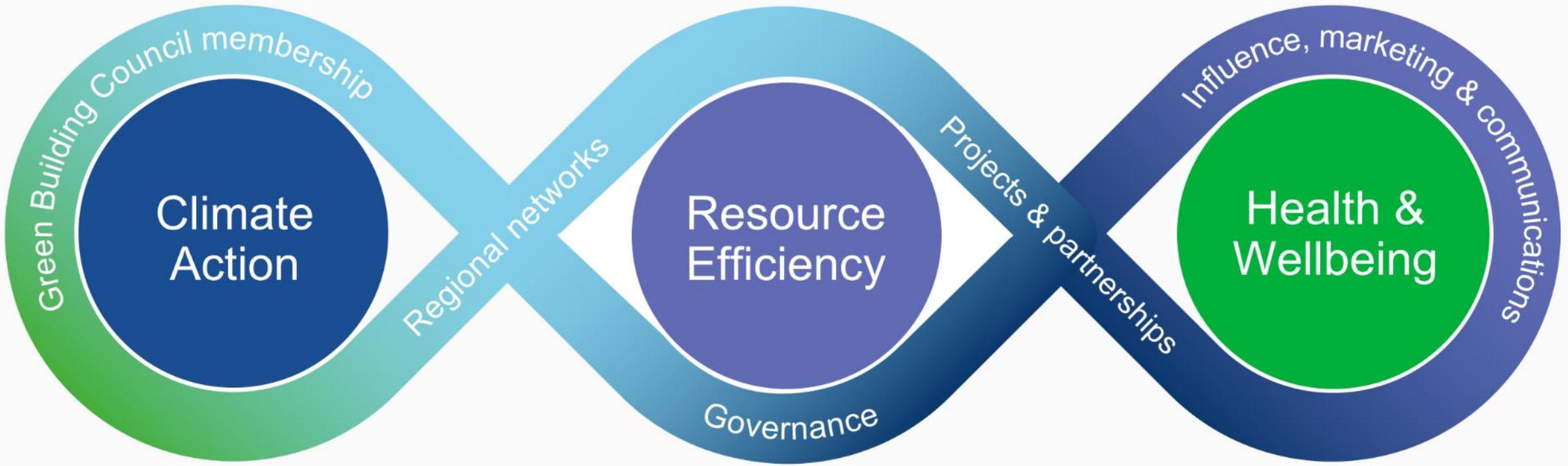
# Net Zero Initiatives of Green Building Council of Australia

Davina Rooney, Chief Executive Officer  
Green Building Council of Australia

# Context : My strong admiration of India



# Our Strategy: drive sector impact



**ADVANCING  
NET ZERO**



# The challenge we face

**104 of 194** countries that signed the Paris Agreement have committed to improve building energy efficiency to meet mitigation targets.

Only **68** countries currently have building energy codes.

By **2050**, global population will increase 27% to **9.8bn** and global floor area will increase by **100%**

## Climate action

- Buildings are responsible for **39%** of global carbon emissions
- Energy demand will increase by **50%** by 2050

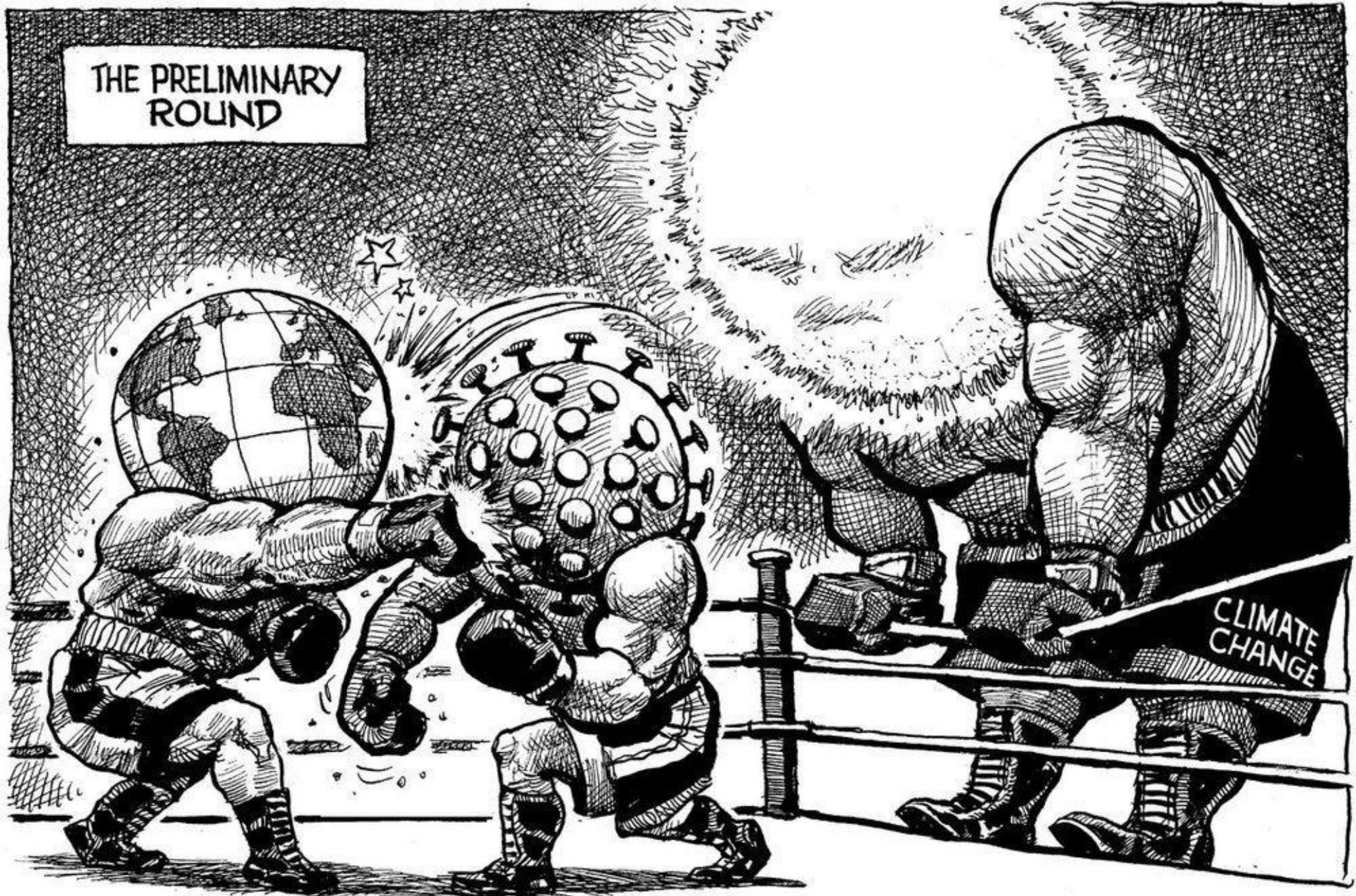
## Resource efficiency

- Buildings are responsible for **50%** of global material use
- **42.4bn** tonnes of materials consumed annually

## Health and wellbeing

- **91%** of people live where air pollution levels exceed World Health Organization limits
- People are **40%** more likely to have asthma due to living in a home with damp or mould

THE PRELIMINARY ROUND





# ADVANCING NET ZERO

A global campaign to accelerate uptake of Net Zero Carbon Buildings to 100% by 2050

## Project targets

- Increase awareness and education of the urgency and achievability
- Achieve alignment and commonality between GBC approaches and certification schemes
- To expedite uptake in global markets by sharing market leadership examples



# Global Net Zero Carbon Buildings Commitment

Australian companies are committing to decarbonise our built environment

## Organisations

AMP Capital Real Estate Managed Portfolio

Atelier Ten

Cbus Property

Commonwealth Bank of Australia

Cundall

Dexus

Frasers Property Australia

GPT Wholesale Office Fund

Integral Group

Kingspan

Lendlease

LG Super

Monash University

**Mott MacDonald**

Multiplex

Nightingale Housing

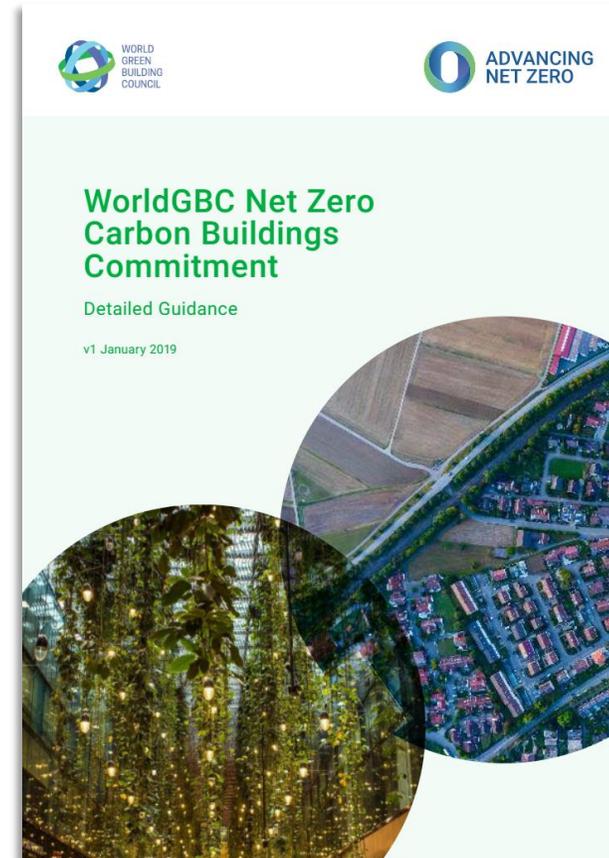
**QIC Global Real Estate**

Stockland - Retirement Living & Logistics

Sydney Opera House

City of Melbourne

City of Sydney



# Every Building Counts

July 2020

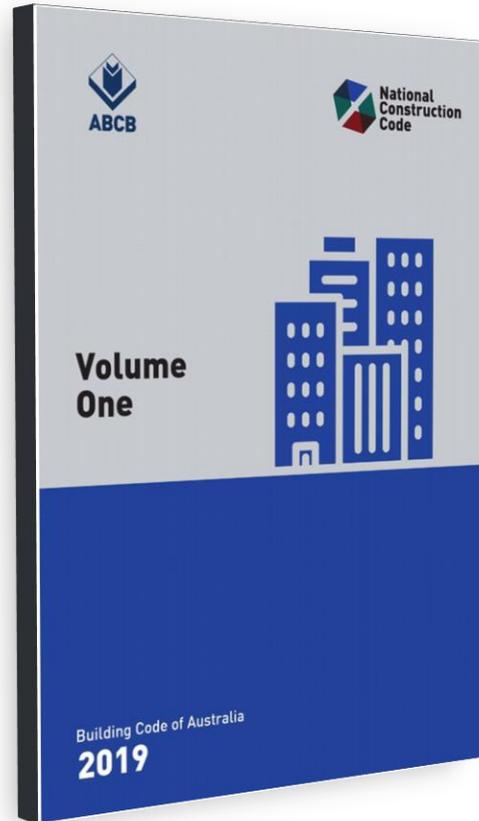
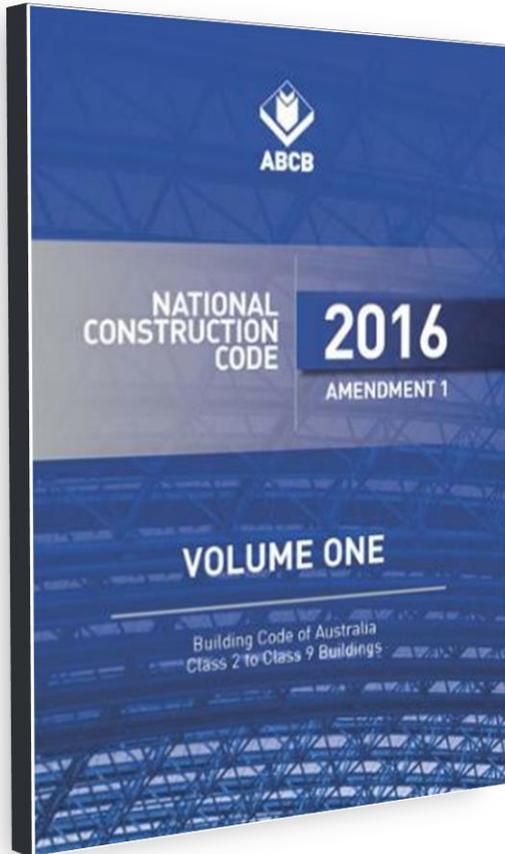
**asbec**  
AUSTRALIAN SUSTAINABLE  
BUILT ENVIRONMENT COUNCIL

 Green Building  
Council Australia

  
PROPERTY  
COUNCIL  
of Australia

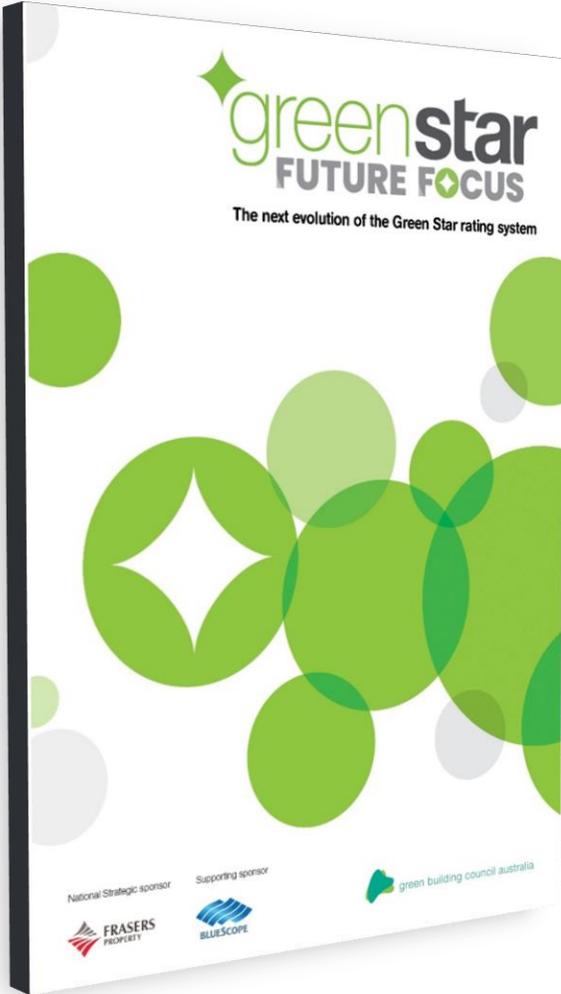
 energy efficiency  
COUNCIL

# Advocacy work



# Example relating this to rating tools

# Future of New Buildings Tool



## What we asked:

- |      |                                  |     |  |     |                            |
|------|----------------------------------|-----|--|-----|----------------------------|
| 100% | Meet Paris Agreement obligations | 97% | Address social sustainability              | 97% | Guarantee minimum outcomes |
| 97%  | Redefine world leadership        | 97% | Drive change in the supply chain           | 84% | Set tenant benchmarks      |
| 93%  | Promote better best practice     | 97% | Bring back nature to our built environment | 80% | Mandate operational rating |

# Environmental and social trends



1 Carbon emissions

2 Resilience

3 Water consumption

4 Nature

5 Circular economy

6 Health and wellbeing

7 People



With thanks to WorldGBC for the information and graphic in this page

# 2

## The global megatrends **Resilience**

**Climate change. Infrastructure failure. Community isolation. Adaptation. These are issues buildings should be addressing.**

We are more reliant on a range of interdependent assets and services than ever - to move, work, play, thrive and maintain relationships. This can be disrupted as a result of climate, externalities ranging from cyber-attack and terrorism, or from infrastructure failure. However, these can be reinforced by engaging with the community to make it more resilient.

The **Resilient** category in Green Star gives building owners insight into these issues. The four credits in the category respond to principles developed as part of extensive research of a number of resilience frameworks such as the Taskforce for Climate Related Disclosures (TCFD), GRESB, the UN Sustainable Development Goals, and the 100 Resilient Cities program. A broader literature review will be made available in due course.

As a condition for a Green Star rating, the **Resilient** category requires all buildings to perform a climate change risk assessment. From there, building owners have a choice to perform a more comprehensive review and respond to critical impacts. For the first time, Green Star for New Buildings will attempt to define the timescales for the assessment, and the scenarios to be considered. This will bring consistency across industry and simplify climate change risk assessments.



“Developing a strategy to help communities thrive during times of stress and shock helps build resilience and the capacity to recover quickly. Green Star now recognises these efforts which is a great step forward in creating resilient communities in a changing future.”

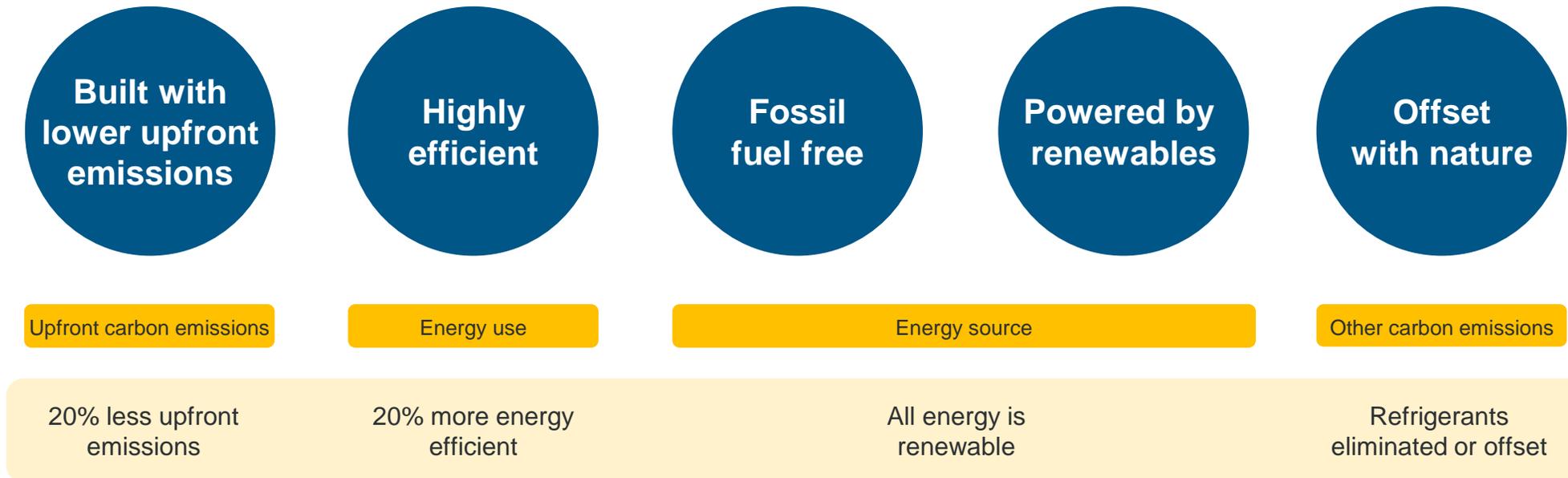
**Greg Johnson**  
National Sustainability Manager,  
Commercial Property at Stockland

### Credits involved in this megatrend

- Climate change resilience ◆
- Systems resilience
- Community resilience
- Grid optimisation\*

# Net zero : clear definitions

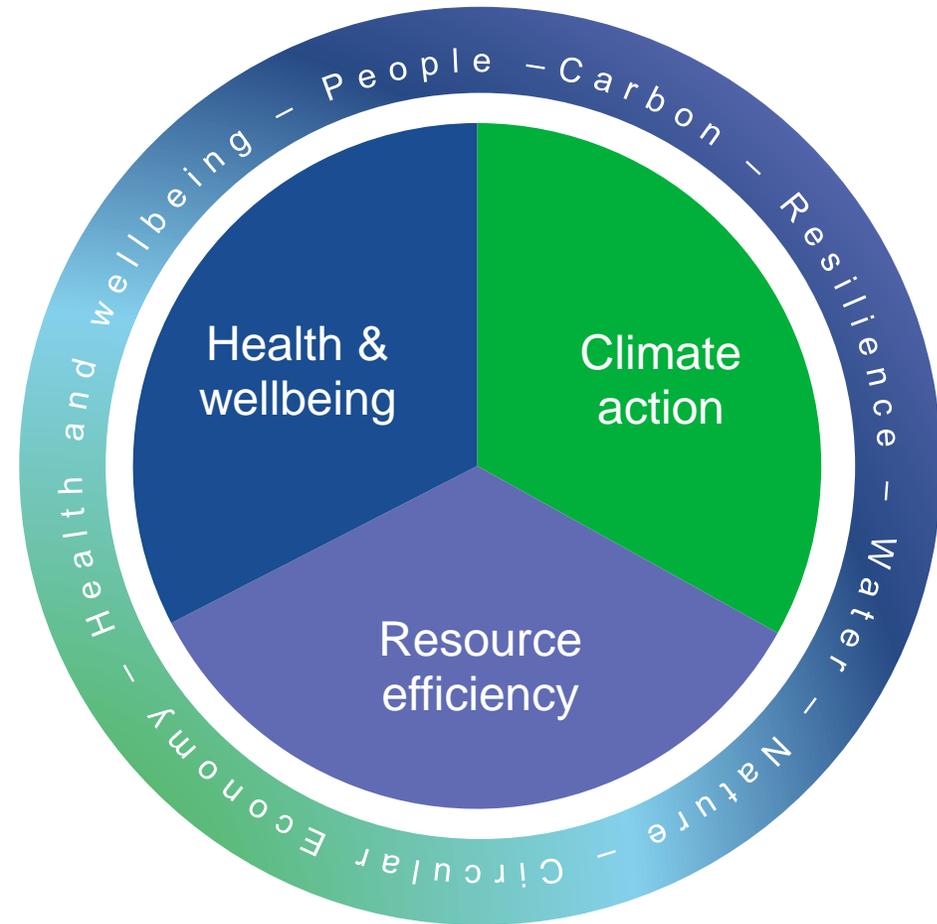
This is our formula that every building should follow.



# Meets the sustainability megatrends

**Green Star Buildings** addresses issues related to carbon emissions, resilience, water, nature, resources and circular economy, health and wellbeing as well as social issues and people's human rights.

Every credit was developed to ensure the benefits are aligned with these trends, resulting in a balanced rating tool that is ready to tackle the challenges of the next decade.



# Discussion

