

# Partnering with research and industry

Davina Rooney, CEO Green Building Council of Australia

# What does the Green Building Council of Australia do?

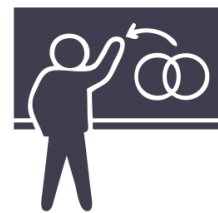
We lead the sustainable transformation of the built environment



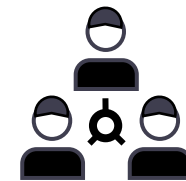
We rate



We advocate



We educate



We collaborate

# Influential Collaboration



WORLD GREEN  
BUILDING COUNCIL



G R E S B  
Global Real Estate  
Sustainability Benchmark



Australian Government  
Austrade

ADVANCING NET  
**ZERO**



INTERNATIONAL  
LIVING FUTURE  
INSTITUTE™



INTERNATIONAL  
WELL  
BUILDING  
INSTITUTE™

**WORLD  
ECONOMIC  
FORUM**



# Our global and domestic opportunities for action

The **World Economic Forum's Global Risks Report for 2022** outlines the top risks by impact and likelihood both nationally and domestically.

## Top 10 global risks over the next 10 years

1. Climate action failure
2. Extreme weather
3. Biodiversity loss
4. Social cohesion erosion
5. Livelihood crises
6. Infectious diseases
7. Human environmental damage
8. Natural resource crises
9. Debt crises
10. Geoeconomic confrontation

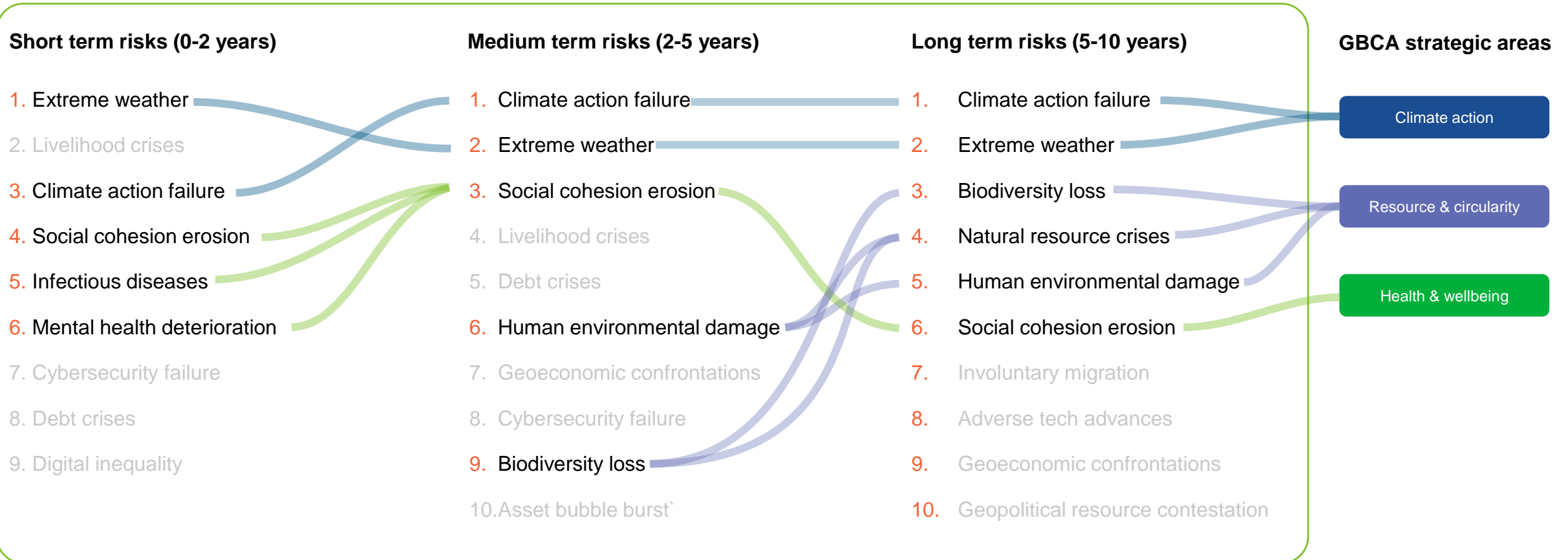
## Top 5 Australian risks

1. Failure of cybersecurity measures
2. Extreme weather events
3. Climate action failure
4. Infectious diseases
5. Debt crises in large economies

# How risks are expected to change over time

Over the next decade, the risk profile for the planet will change.

According to the World Economic Forum's Global Risk Report





# Implications of megatrends in property

## 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

## How will this change into the future?

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



**How do we change this everywhere?**







**How do we change this everywhere?**

**Together,  
with scale**



# SBEnc PROJECT SUSTAINABLE PROCUREMENT

Chair: Davina Rooney CEO GBCA

Project Leader: Associate Professor Yingbin Feng WSU



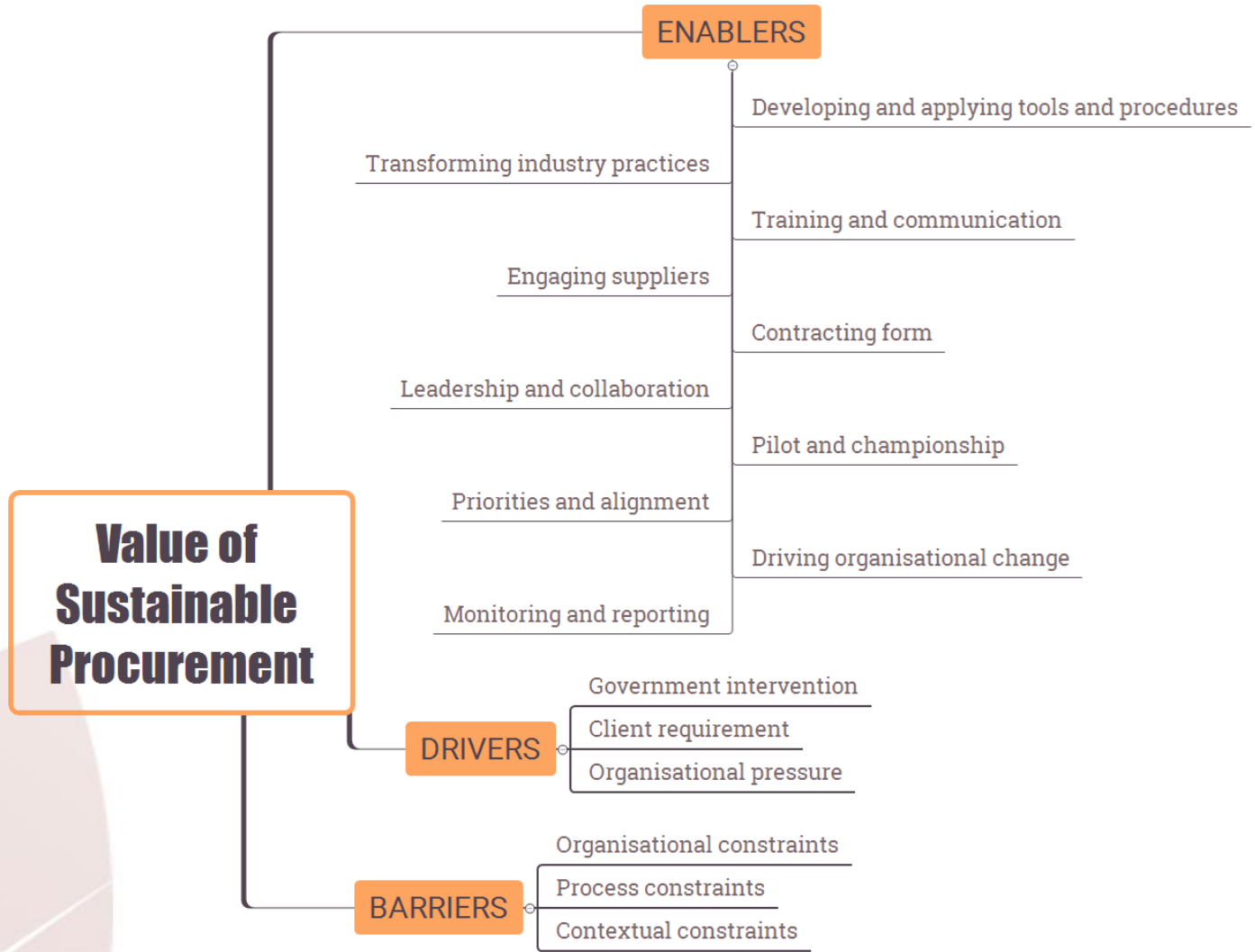
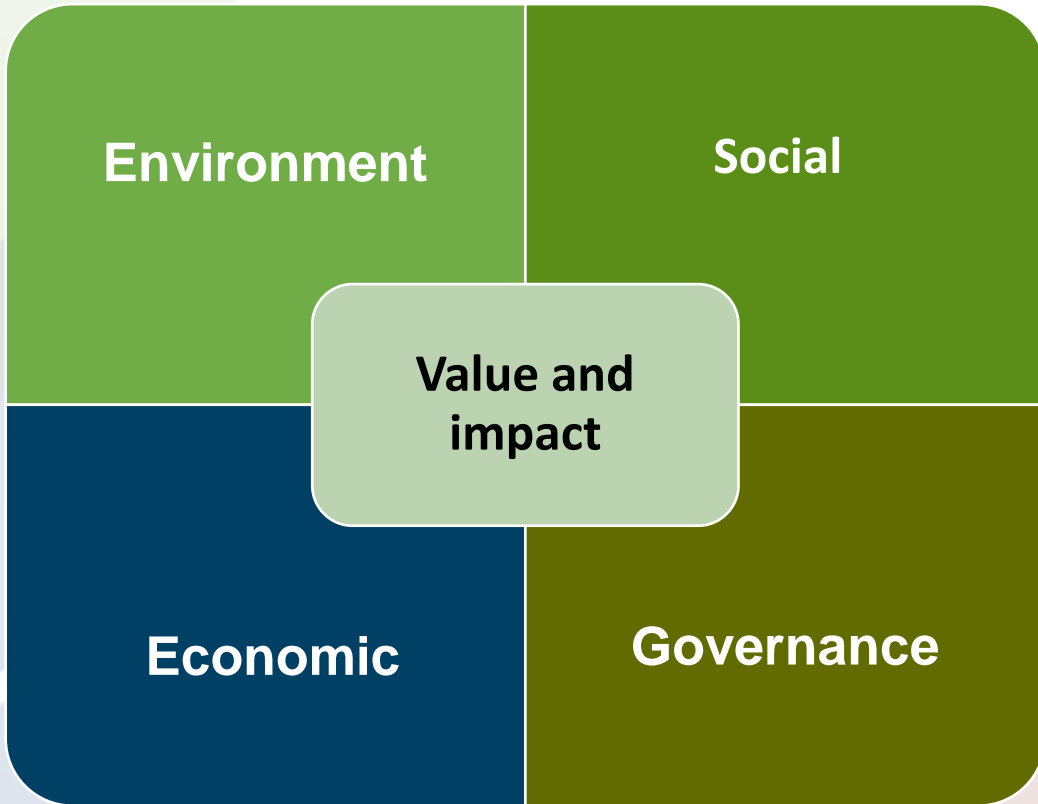
Green Building  
Council Australia



Sustainable  
**Built Environment**  
National Research Centre  
AUSTRALIA

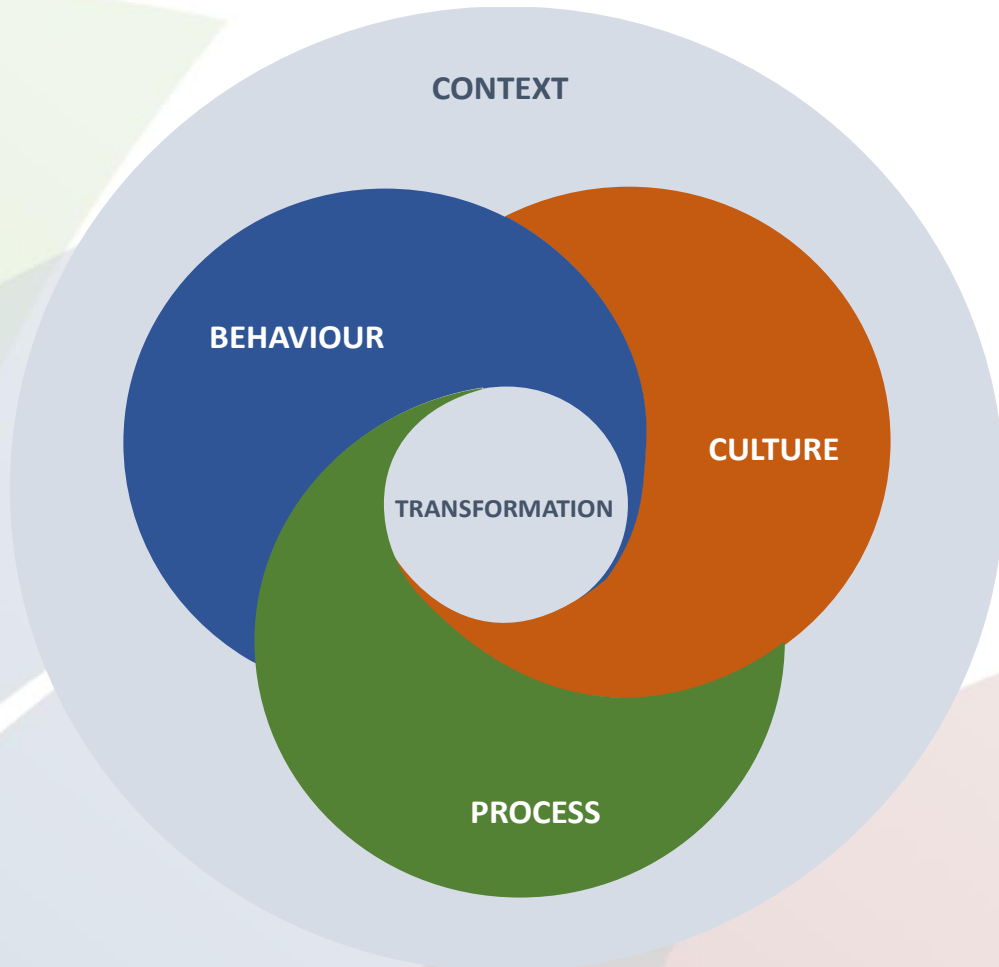


# Value of sustainable procurement





# Industry Practice Transformation



MATERIALS

## Four things that need to change with stakeholders to build sustainable procurement

SALMAN SHOOSHARIAN, RMIT UNIVERSITY; TIENDUNG (T.J) LE, RMIT UNIVERSITY; YINGBIN FENG, WESTERN SYDNEY UNIVERSITY; LOUIS BETTINI, MAIN ROADS WESTERN AUSTRALIA  
1 NOVEMBER 2021 UPDATED 2 NOVEMBER 2021

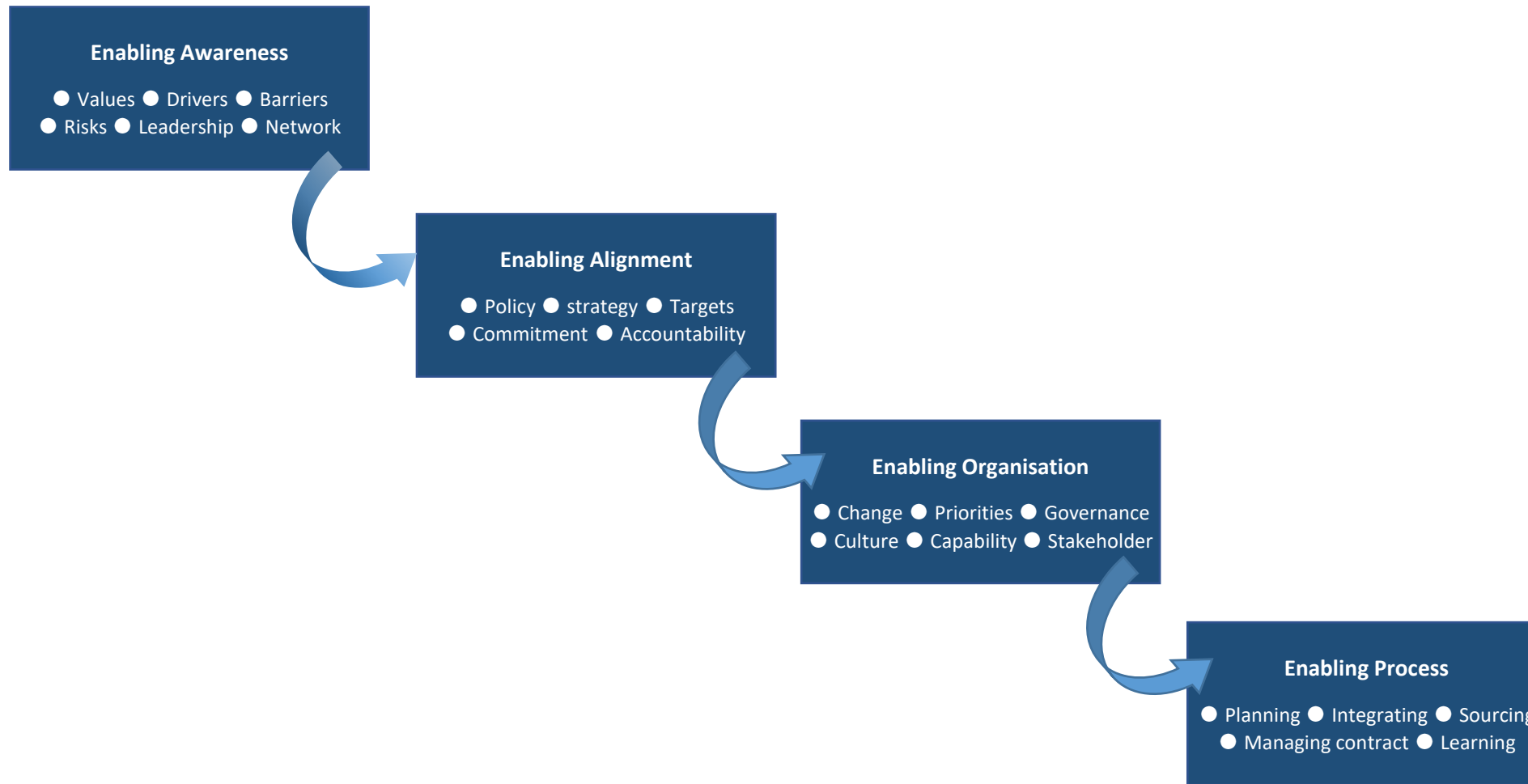


Sustainable procurement enables an organisation to meet its needs for goods, services, works and utilities in a way that achieves value for money on a whole-of-life basis. Sustainable procurement delivers benefits to the organisation, society, and the economy, and minimises damage to the environment.

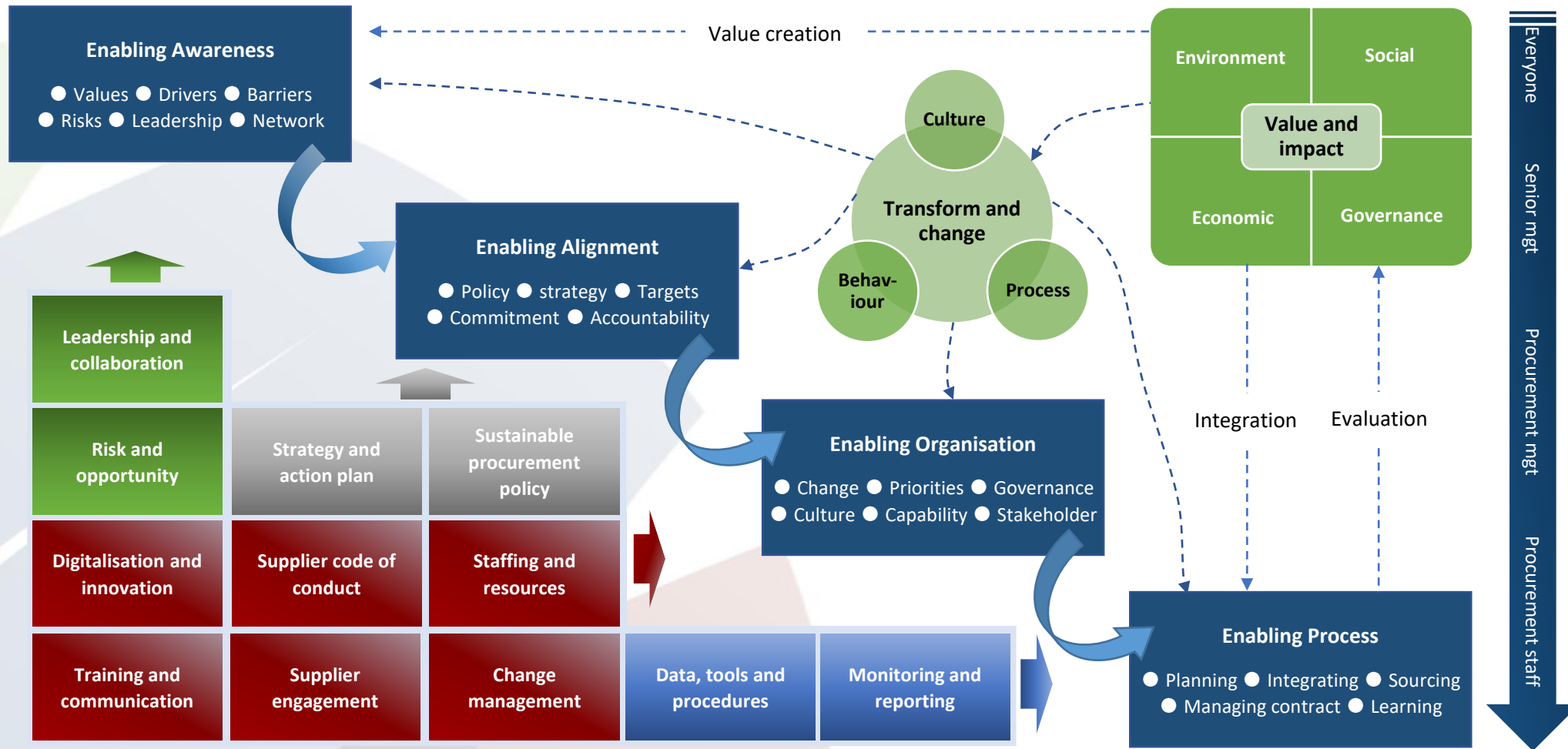
### TRENDING

- Nikola Tesla dreamed of free electricity; what happened?
- Ninety per cent of Australian consumers want sustainable products
- The secret to sustainable construction? Employ more women?
- EY mandates green leases in sustainability push
- What Australian cities can learn from New York City's building emissions laws
- On Green Buildings 2.0, GBCA's Transform and this "crazy" idea to save the planet through the built environment
- Charging ahead? Volkswagen boss names the big barriers to EVs success – and says stay away from hydrogen

# Framework for enabling sustainable procurement



# Framework for enabling sustainable procurement





# Case Studies

- Green concrete
- Recycled contents
- Modern slavery
- Regional participants
- Marginalised groups

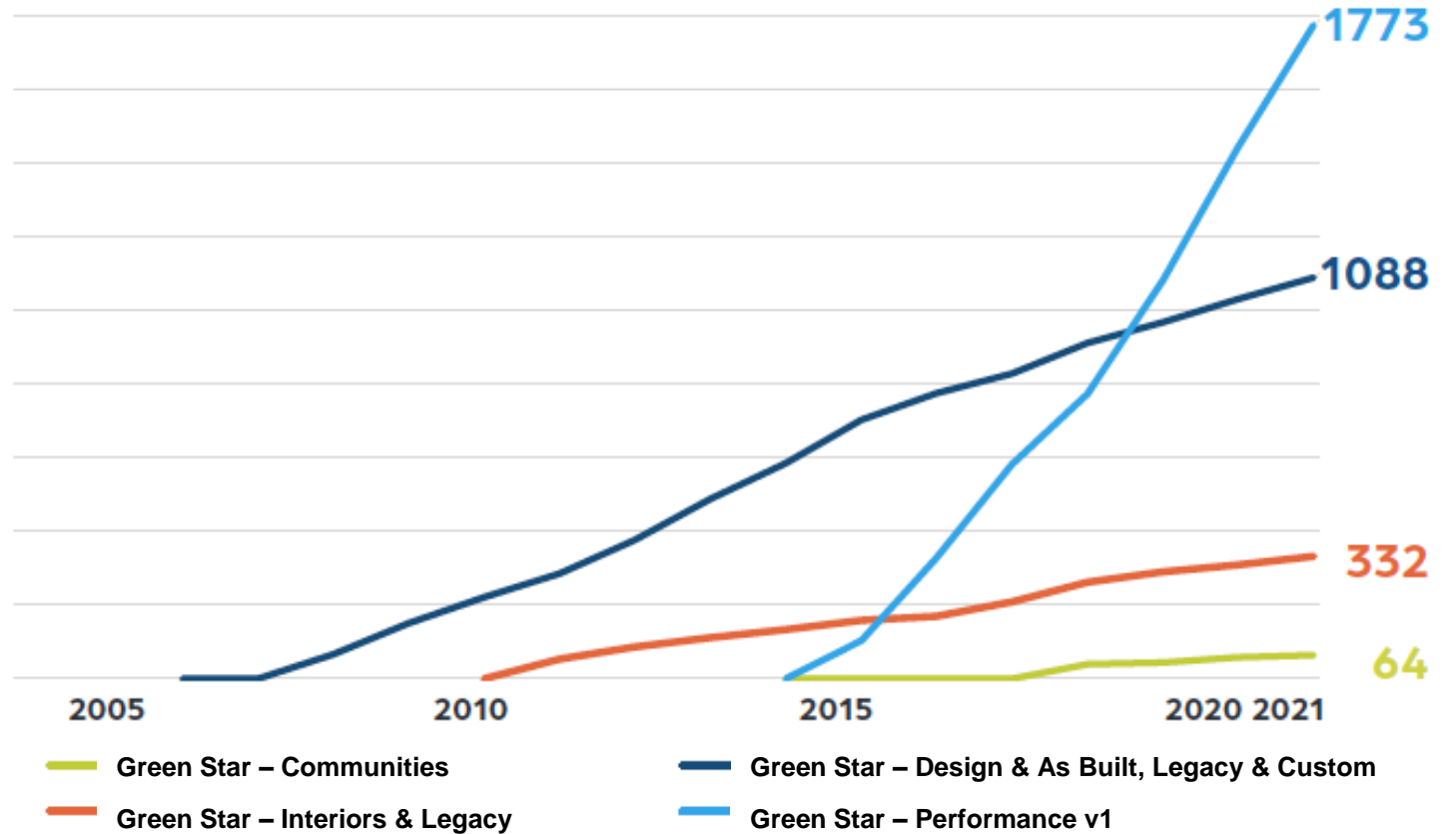




# Case Study 2 : Green Star procurement

Using sustainability rating tools as advocacy in action

Green Star rating tools are used by hundreds of projects a year.





# Embedding strategic goals in tools

**Green Star Buildings** features eight new categories representing the issues that will define the next decade of the built environment.



Responsible

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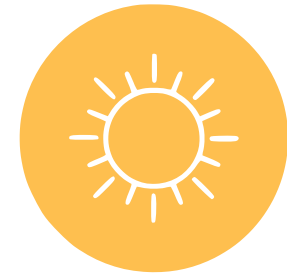
Healthy

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Resilient

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Positive

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Places

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People

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Nature

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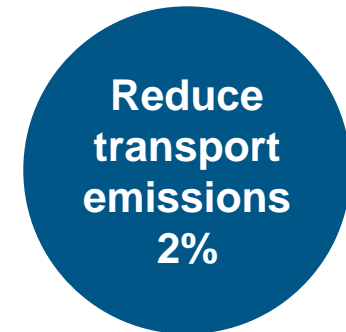
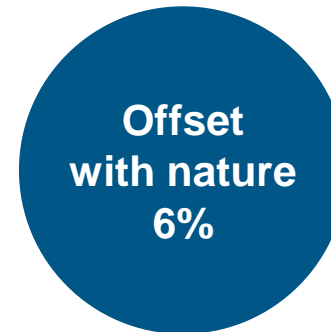
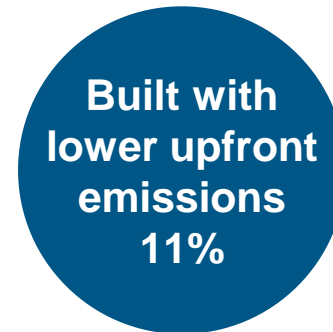
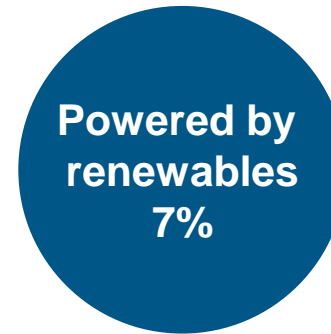
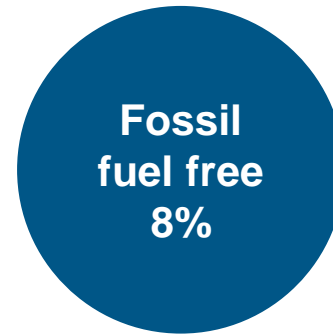
Leadership

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# Carbon in focus

## Percentage of points that address the recommendations from the IPCC report

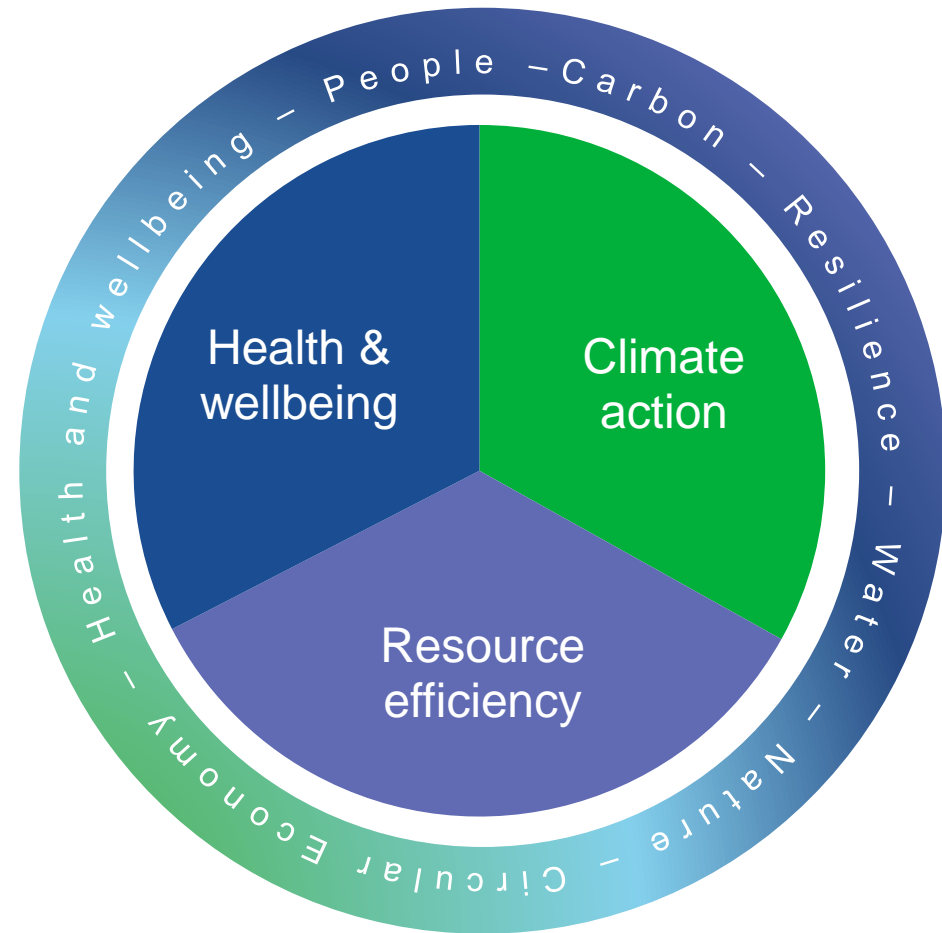
Credits have been scored based on their direct, or indirect impact against each recommendation. For example, 6% of the rating tool rewards carbon capture through land use. This would be due to the direct points from *Other carbon emissions*' and the indirect points from the Nature category.



# 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.



# The 10 things expected from every Green Star rated building:

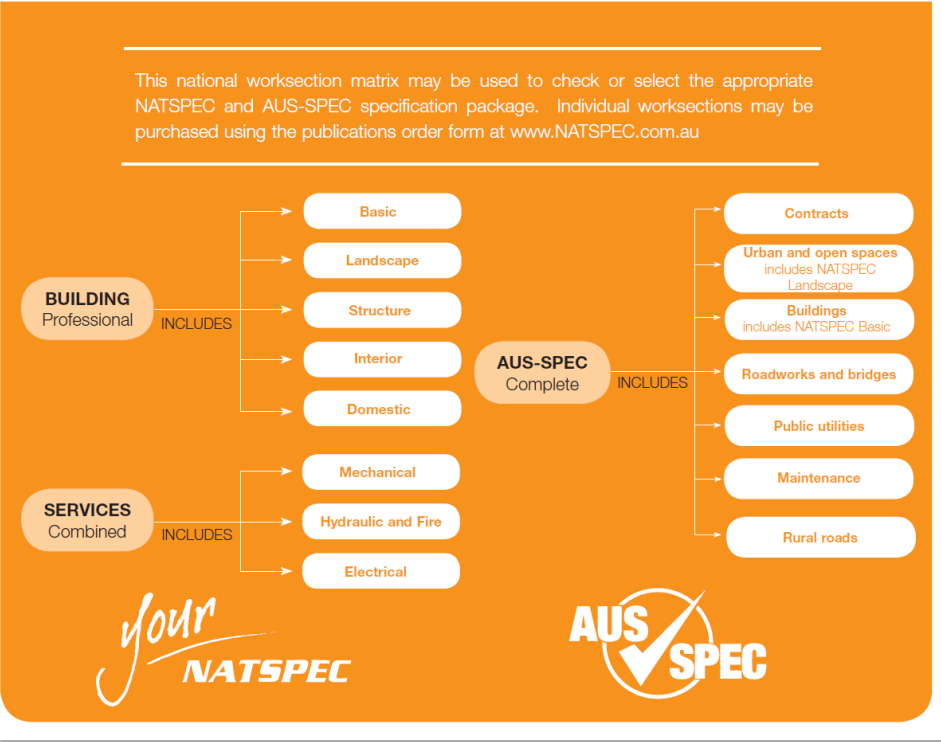
**Green Star Buildings** requires buildings to be efficient, promote health, and be built to operate well.

1. Protects environmentally significant areas
2. Emits less carbon in construction and operations
3. Is water efficient
4. Has improved air, light, acoustics, and product finishes
5. Promotes physical activity
6. Is built to consider climate change impacts
7. Manages environmental impacts during construction
8. Embraces the diversity of our population
9. Enables practices that reduce operational waste
10. Is verified to perform as designed.



# Procurement, procurement, procurement

## NATIONAL WORKSECTION MATRIX



| WORKGROUP/<br>SUBGROUP/<br>WORKSECTION<br>NUMBER | WORKGROUP/<br>SUBGROUP/<br>WORKSECTION<br>TITLES | Services | Building | Professional | Basic | Structure | Interior | Domestic | COMBINED | MECHANICAL | ELECTRICAL | URBAN AND OPEN SPACES | ROADWORKS AND BRIDGES | PUBLIC UTILITIES | BUILDINGS | CONTRACTS | COMPLETE | AUS-SPEC |
|--|--|----------|----------|--------------|-------|-----------|----------|----------|----------|------------|------------|-----------------------|-----------------------|------------------|-----------|-----------|----------|----------|
| <b>06</b>  | <b>FINISH</b>                                    |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |
| <b>067</b>                                       | <b>Painting</b>                                  |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |
| 0671   | Painting   |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |
| 0671p  | DULUX painting                                   |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |
| 0671p  | HAYMES painting                                  |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |
| 0671p  | RESENE painting                                  |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |
| 0671p  | TAUBMANS painting                                |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |
| 0671p  | WATTYL painting                                  |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |
| 0672   | Textured and membrane coatings                   |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |
| 0673   | Powder coatings                                  |          |          |              |       |           |          |          |          |            |            |                       |                       |                  |           |           |          |          |

**Thank you**

