



## **Webinar 2 – Where adaptation and net zero meet: how can we achieve both resilience and net zero emissions outcomes**

**Adaptation in Action: Building Resilience in NSW**

Thursday 19 November 2020 | 2pm – 3:30pm





# AdaptNSW Webinar Series

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## Welcome

**Claire Berecny**

Senior Team Leader, Net Zero Emissions Implementation  
NSW Department of Planning, Industry and Environment

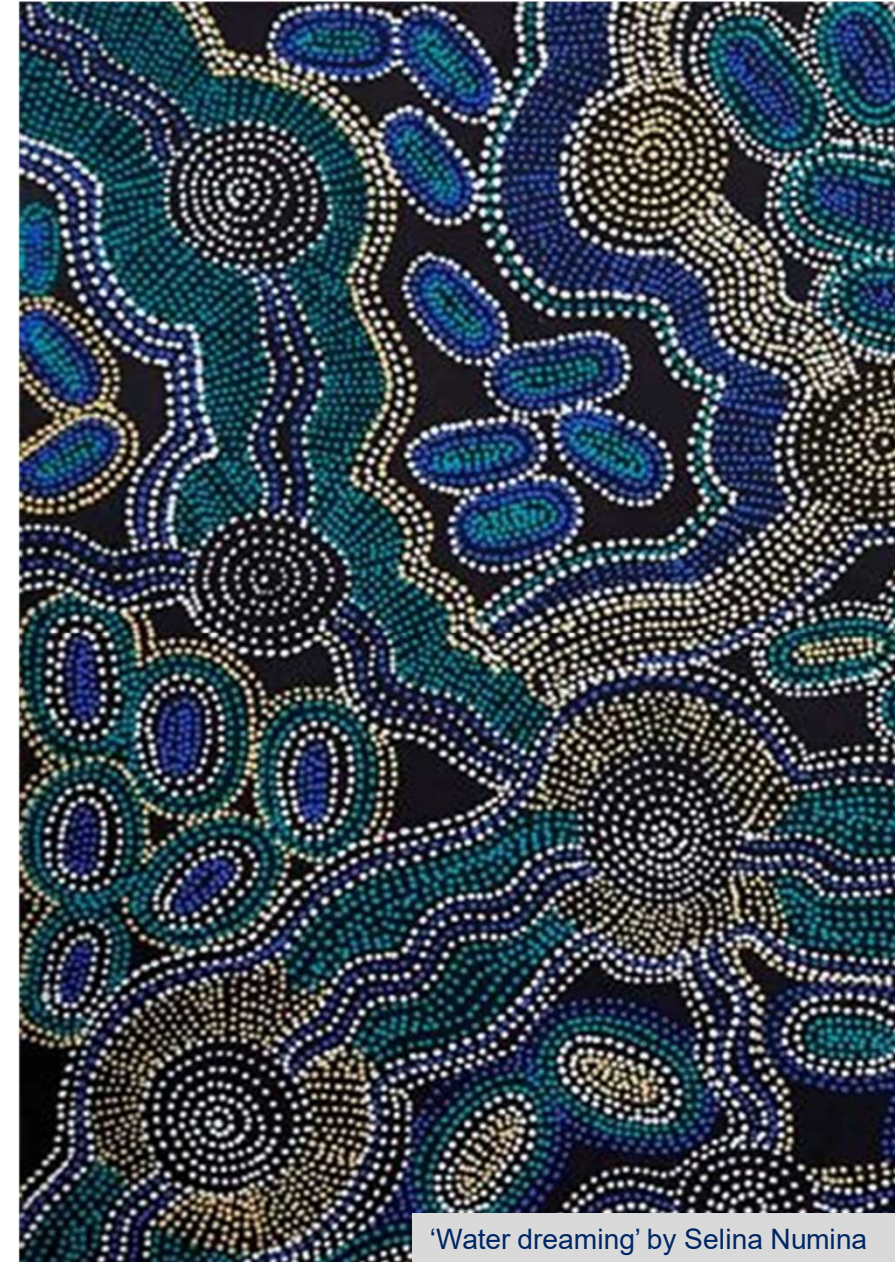


# Acknowledgement of Country

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**Claire Berecny**

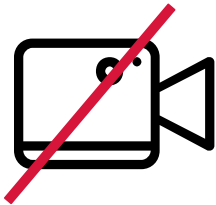
NSW Department of Planning, Industry  
and Environment



'Water dreaming' by Selina Numina

# Meeting rules and interaction

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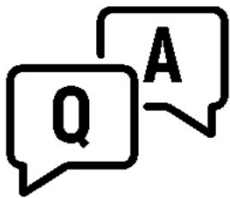
Turn off your camera



Mute yourself



Use the chat box



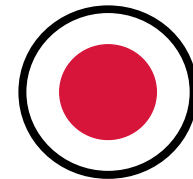
Dedicated Q&A  
time



Closed captions  
is available



Presentation will be  
available



Today's webinar will  
be recorded



# Minister's Address

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AdaptNSW Webinar Series

**The Hon. Matt Kean**  
NSW Minister for Energy and Environment



# Video

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# Overview of NSW Government Action

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AdaptNSW Webinar Series

**Dr Stephen Bygrave**

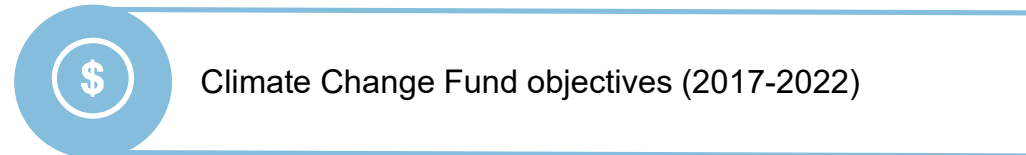
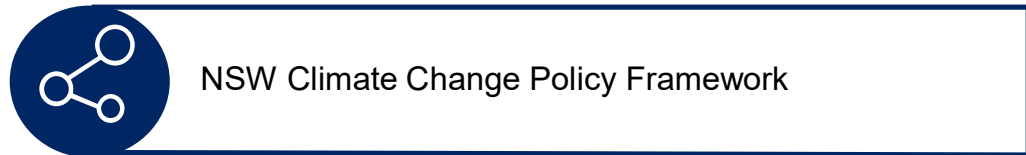
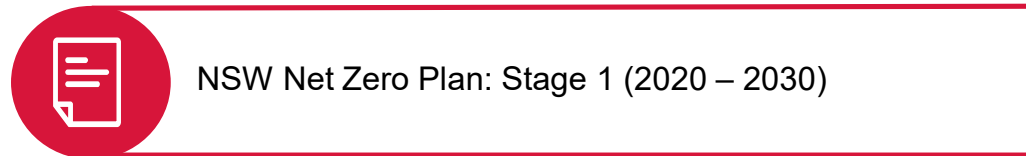
Director, Climate Resilience and Net Zero Emissions Branch,  
NSW Department of Planning, Industry and Environment



# Climate Resilience and Net Zero Emissions

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NSW Government is leading initiatives to make NSW more resilient to climate change and to support the state to achieve net zero emissions by 2050.





# Net Zero Emissions Implementation

Supporting a variety of stakeholders to achieve net zero emissions by 2050

Tailored support to local councils to achieve net zero emission by 2050

Assisting NSW Government towards net zero in its own operations through an emissions reduction pathways tool.

Place-based action including working with Randwick Collaboration area to develop an Emissions Reduction Strategy for the precinct and its businesses and stakeholders such as health, education, transport, private sector and utilities.

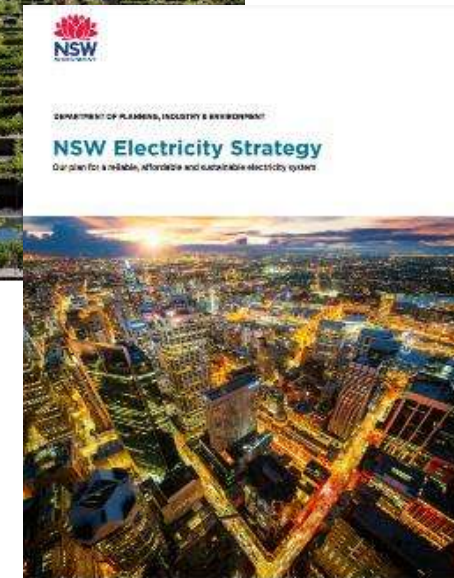
Other initiatives include work on **Net Zero Emissions Transport**;

- Electric Vehicle Infrastructure and Model Availability
- Making Buildings EV Ready
- Transport Consumer Information



Department of Planning, Industry and Environment

**Net Zero Plan**  
Stage 1: 2020–2030



# Net Zero Land

Delivering abatement in the primary industries and land sectors under the Net Zero Plan

- Reducing emissions from livestock and agricultural processes.
- Driving the uptake sequestration in soils and vegetation
- Increasing access to carbon markets for land managers
- Supporting abatement projects on Aboriginal managed lands, National Parks and Crown Lands
- Recognising and valuing the multiple benefits that come from carbon projects, including biodiversity, social outcomes and economic outcomes.



# Cultural and Ecosystem Adaptation

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NSW land, water and sea management practices are responding to climate change impacts on cultural and natural values; and

- Delivering climate change adaptation responses for biodiversity, ecosystems and threatened species on private and public land and marine and terrestrial parks
- Delivering climate-ready revegetation initiatives
- Producing and promoting guides and training for ecological and cultural adaptation
- Delivering adaptation assessment and support for Aboriginal owned lands and Aboriginal Cultural Heritage protection



# Climate Preparedness

Assisting NSW businesses, government and the community to prepare and adapt to the impacts of climate change

The XDI NSW (Cross Dependency Initiative) Project - we work with NSW asset owners and operators to assess impacts of climate change on critical infrastructure and identify shared risks.

Climate Risk Ready NSW: building the capability of the public sector to manage climate-related risks through training, guidance, policy alignment and executive engagement.

Engaging with regional leaders to support locally-driven adaptation action and establishing regional governance models.

Enabling Regional Adaptation assessments for all regions of NSW that identify priority sectors and pathways for adaptation and transition.



# Climate Information Delivery

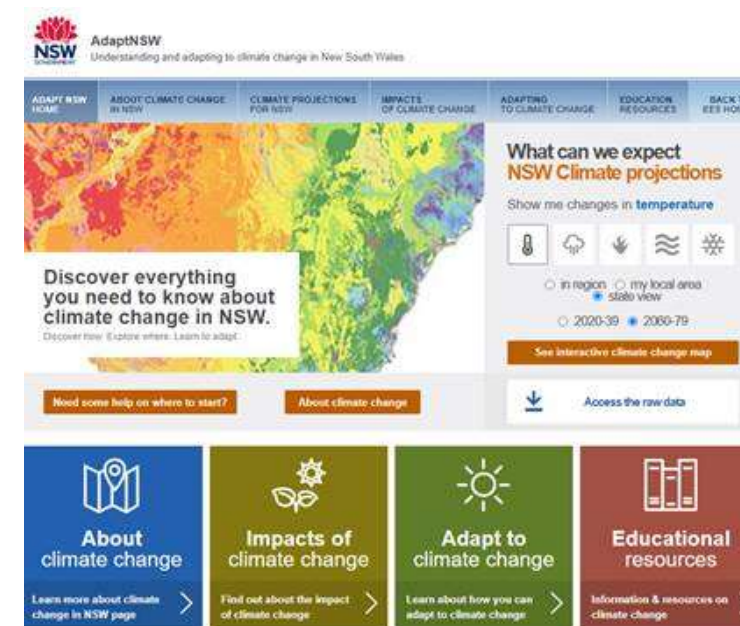
Helping NSW households, businesses, community groups and government to understand how climate change may affect them and what they can do to respond and adapt to the impacts.

Providing access to credible climate change information through the [AdaptNSW website](#) and Forum.

Providing \$3.5m in grants that support local government and the community implement on ground action.

Facilitating a more coordinated and collaborative response by State and Local Government in regional NSW.

Encouraging others to take action to build resilience to climate change by promoting our efforts and the actions of others.





# Cobargo: Dairy farmers, epic metal bands and a clean energy future

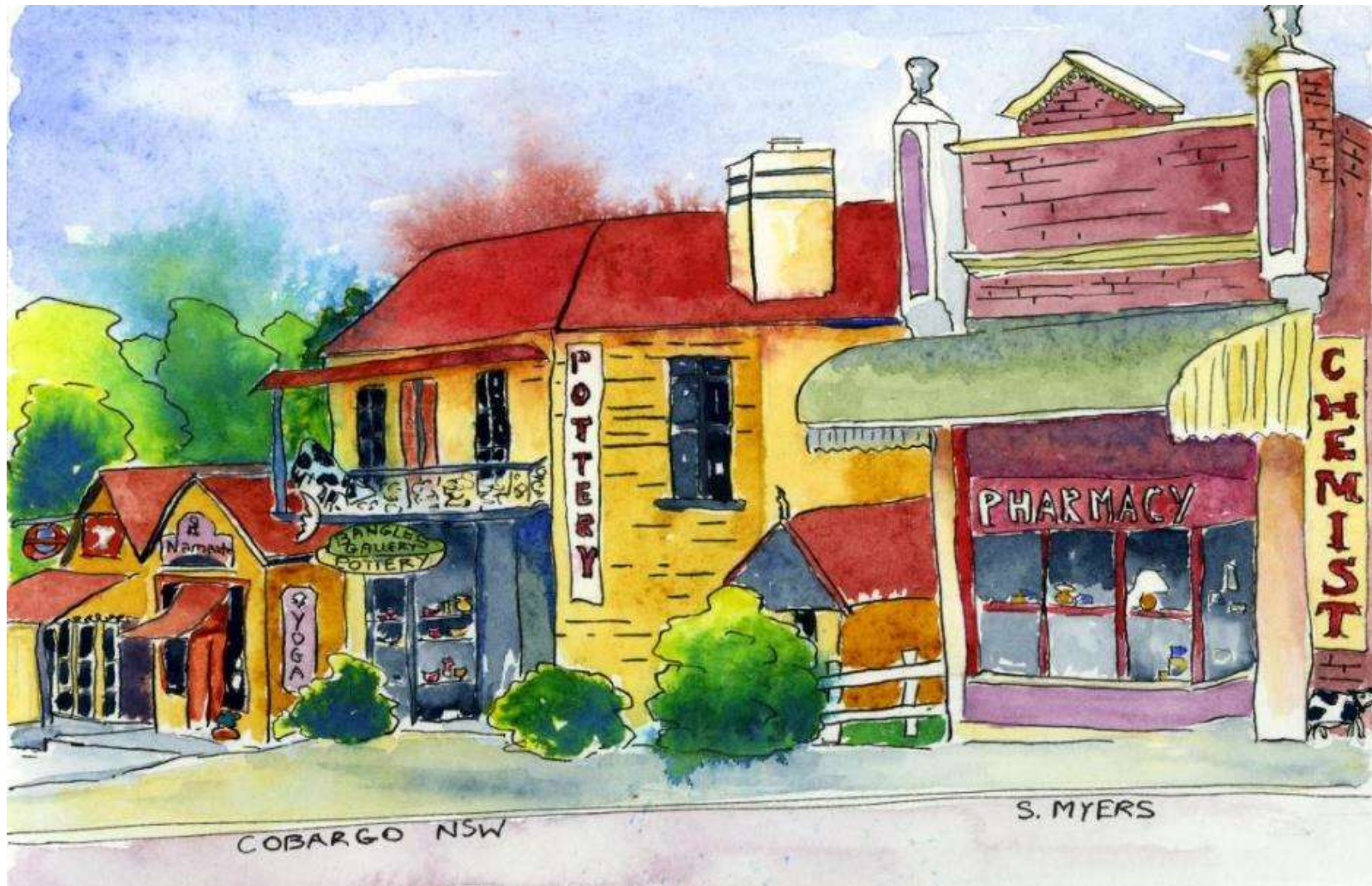
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Presentation 1

**Zena Armstrong**

President, Cobargo Community Bushfire Recovery Fund Inc





'Memories of Cobargo' by Shirleyanne Myers



Same view, NYE: Photo John Walters, Cobargo RFS





Spreading by *leap-frogging* spot fires

Ben Marden Brogo



NYE: fire flowing downhill towards the Far South Coast Photo: Ben Marden



Cobargo Main Street NYE: Princes Highway



Cobargo Main Street, Princes Highway, 1 January 2020 Photo: Zena Armstrong



Cobargo-Bermagui Road 2 Sept 2019

## Join the Conversation



Be a part of what's new and what's planned for Cobargo ... and you could win a \$100 Cobargo Co-op Voucher and other goodies

## **Cobargo** **Build Back Better**

*Share the Vision for Cobargo and be in the running to win a \$100 voucher from Cobargo Co-op and other goodies*

*Come along to the Community "Marketplace" sessions on Thursday 12 November at Cobargo Showground Pavilion. Sessions at 11.00am — 1.00pm and 4.00pm — 6.00pm*

**OR**

*Join in the Community Fun Day and Massive Plant Giveaway on Saturday 14 November from 10.00am at Cobargo Showground and talk to the various Project Leaders about individual projects and programs*



Community Consultations Nov 2020



Cobargo community consultations, 12 November 2020

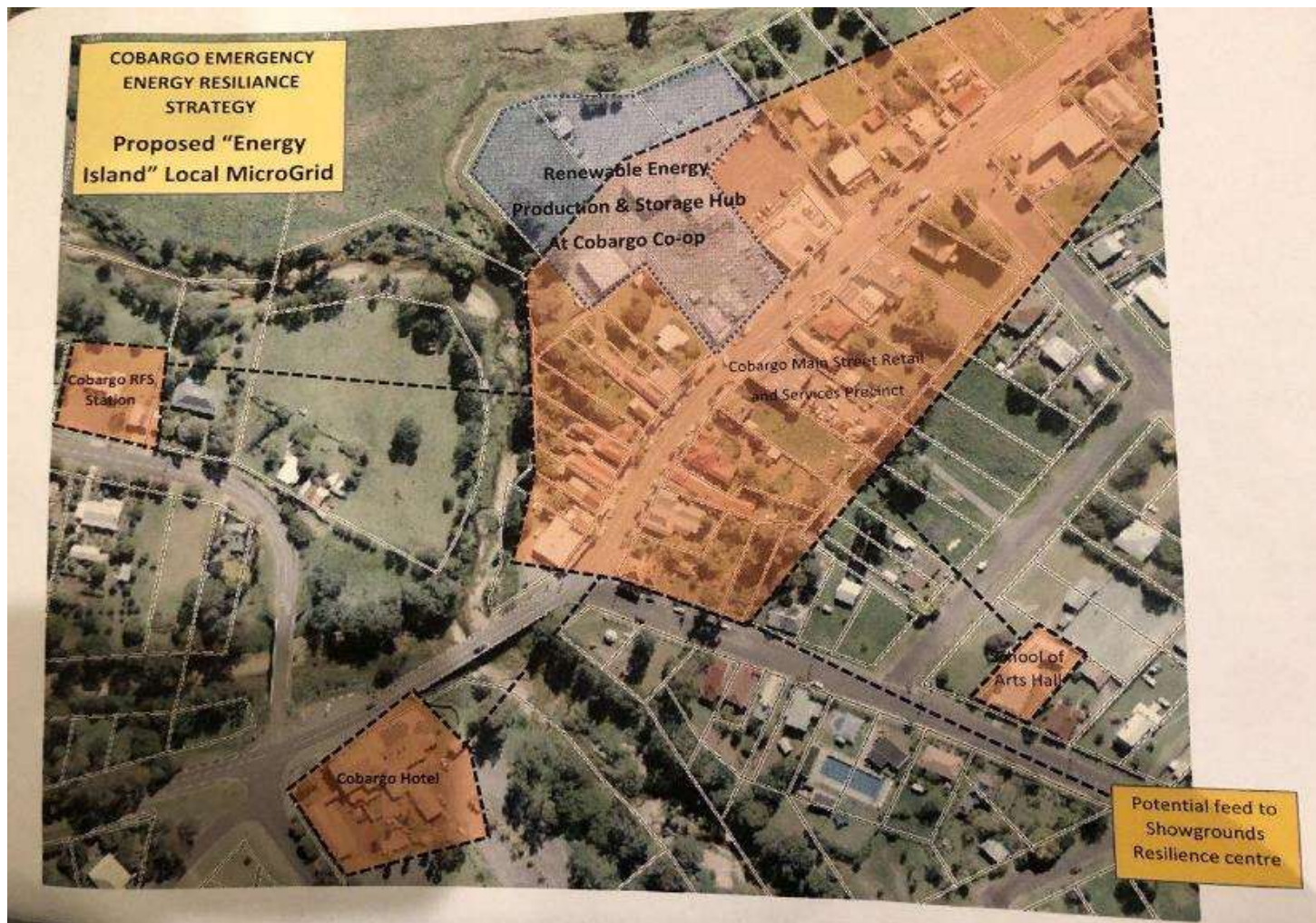


Cobargo main street, Princes Highway, 22 May 2020, ABC



Community consults: Main street redevelopment planning





Community grid concept



Cobargo Showground Community Hall and Disaster Refuge: TAKT Studio for Design

NATIONAL LIBRARY OF AUSTRALIA

12 November 2020

[bcrrf@resilience.nsw.gov.au](mailto:bcrrf@resilience.nsw.gov.au)

To Whom It May Concern:

**RE: Letter of Support for 'Badja Forest Road Fire Oral History Project'**

I am writing to confirm The National Library of Australia (NLA) would be delighted to partner with the Cobargo Bushfire Resilience Centre on a *Badja Forest Road Fire Oral History Project*, should their application for funding under the Bushfire community recovery and resilience fund succeed.

The NLA is the largest reference library in Australia, responsible under the terms of the National Library Act for maintaining and developing a national collection of library material, relating to Australia and the Australian people. The Library's collection is the nation's single most important resource of materials recording Australian cultural heritage, including Australia's largest oral history collection. The Library is also home to TROVE, an online library database aggregator, which is a centralised national service built with the collaboration of major libraries of Australia.

This project will make a significant contribution to our nation's historical record by capturing 60 individual oral histories from those impacted by the Badja Forest Road bushfires. They will document and preserve important accounts of trauma and resilience, support social recovery and inform future disasters, as well as contribute to general community well-being.

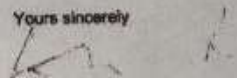
As an expression of our commitment, the NLA will administer the project and commit a total of \$114,860 in direct payments and \$97,282.40 in-kind services over the project's life.

**Cash and in-kind contributions to the Project**

Total in-kind Contribution \$	Total Cash Contribution in Direct Payments \$	Source of Cash Contribution
\$97,282.40	\$114,860	Cash contribution will be sourced from funds set aside for collection development

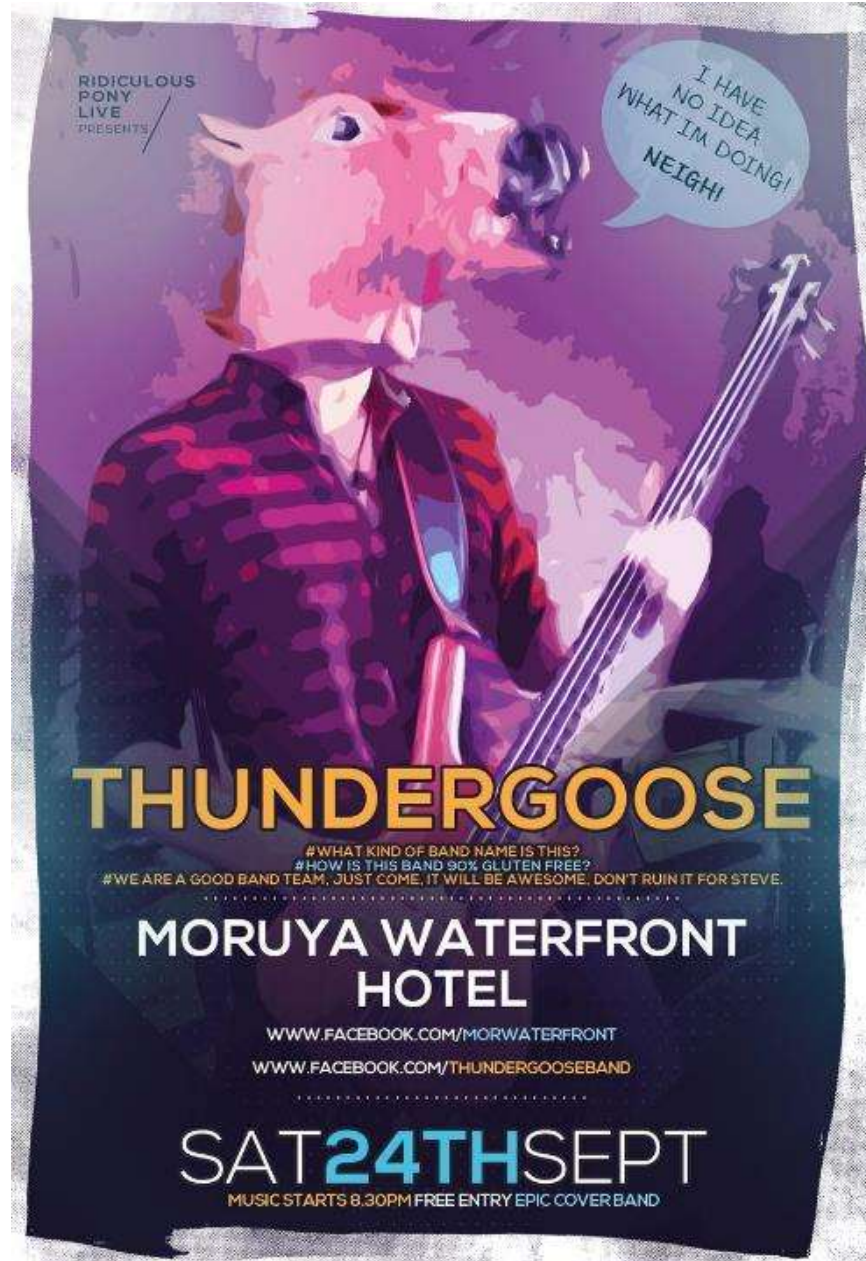
The NLA is pleased to partner in this timely and valuable project and I commend it to you.

Yours sincerely

  
Kevin Bradley PSM  
Assistant Director-General, Collection  
National Library of Australia  
P: 02 6262 1301 E: [kbradley@nla.gov.au](mailto:kbradley@nla.gov.au)



Partnership agreement  
with National Library of  
Australia Oral History  
Project



Thundergoose



# Green Star – A collaboration to address emissions and resilience in building and construction

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## Presentation 2

**Sandra Qian**

Senior Manager - Policy and Government Relations,  
Green Building Council of Australia







# Who is the GBCA? Our vision

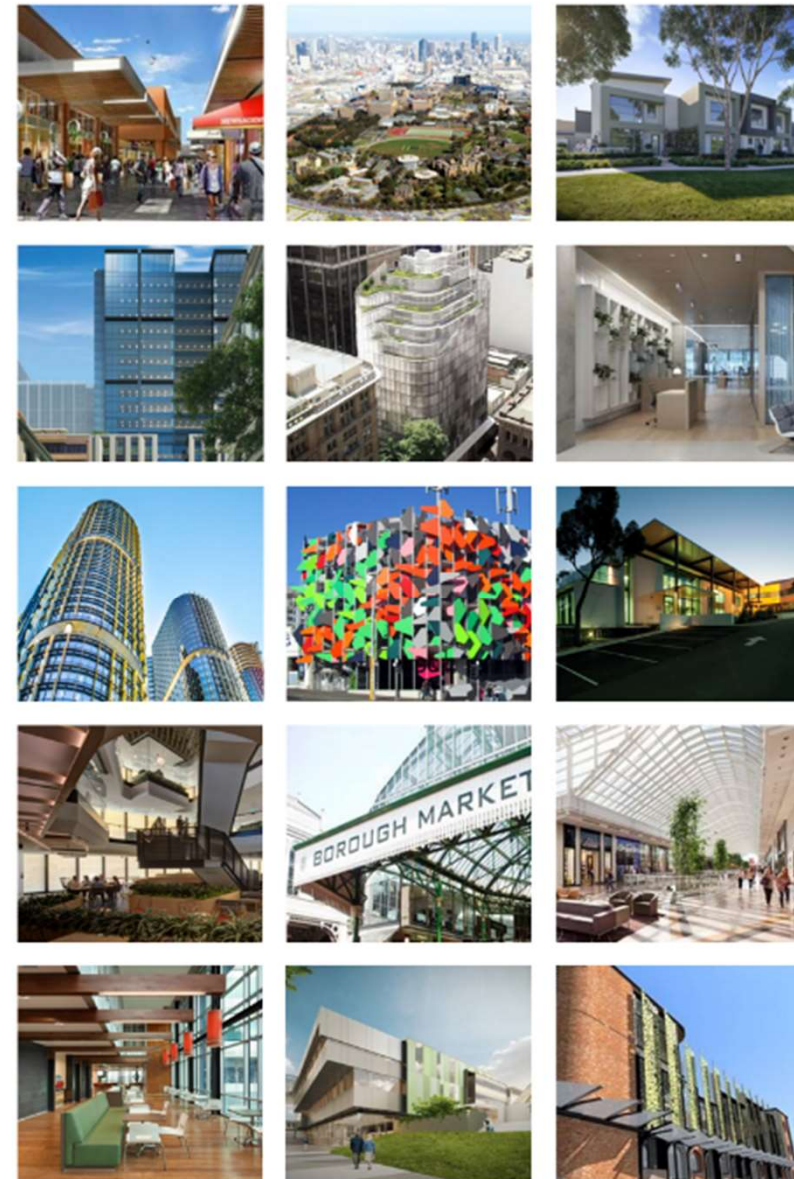
Healthy, resilient, and positive  
places for people and the  
natural environment





## We set the standard for Australia

From libraries to hotels and from offices to the biggest regeneration projects in the country, Green Star continues to drive sustainable outcomes.





# Green Star quick facts



**42,000**

people living in Green Star rated homes and apartments



**725,000**

people working in Green Star rated offices



**425,000**

more people living in Green Star rated communities

When compared to buildings constructed to meet minimum standard, Green Star rated buildings:



Produce  
**62%**  
fewer emissions



Use  
**66%**  
less electricity



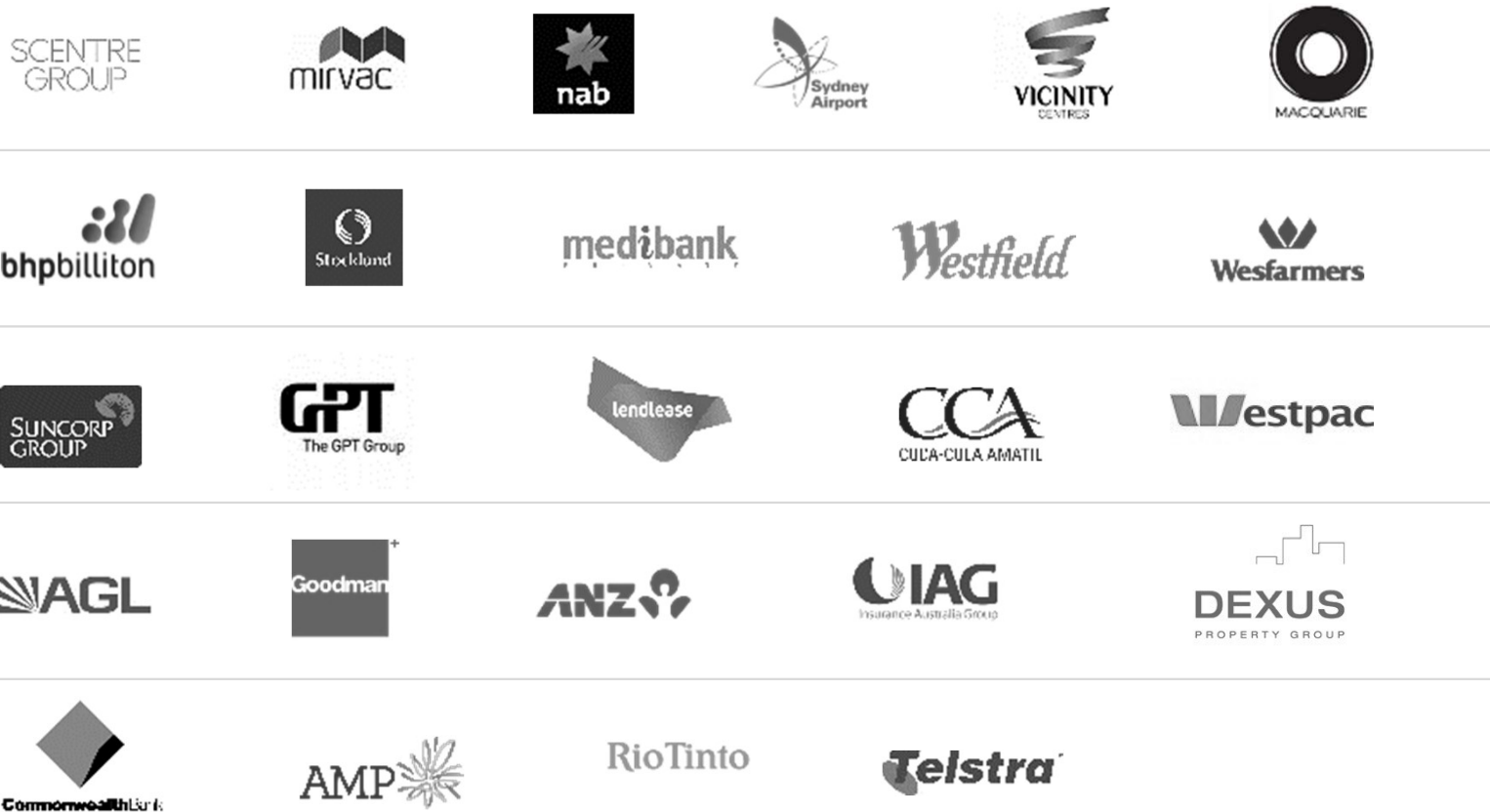
Use  
**51% less water**



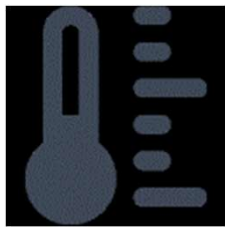
Recycle  
**96% of waste**

\* Value of Green Star: A decade of environmental benefits, Green Building Council of Australia (2013)

# 50% of ASX50 companies use Green Star



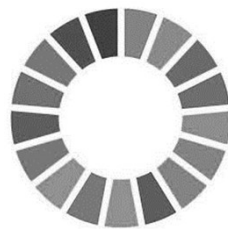
# A global focus on carbon & climate change



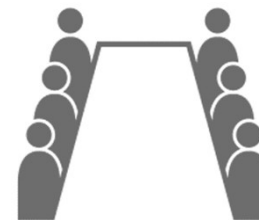
Emission targets & COP21



Investor demand



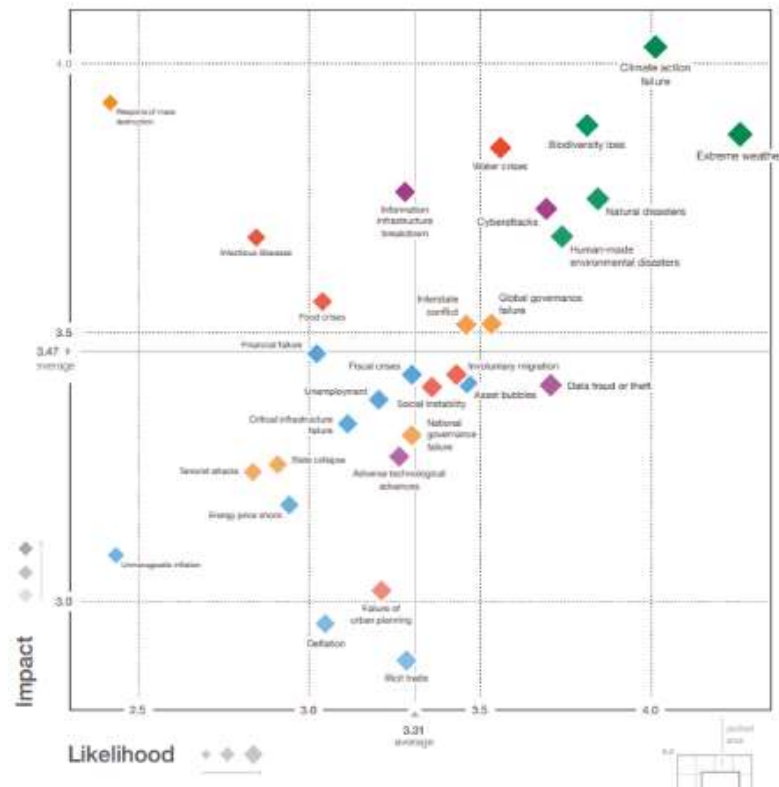
Sustainable Development Goals



Board reporting requirements



# World Economic Forum Global Risks Report (2020)

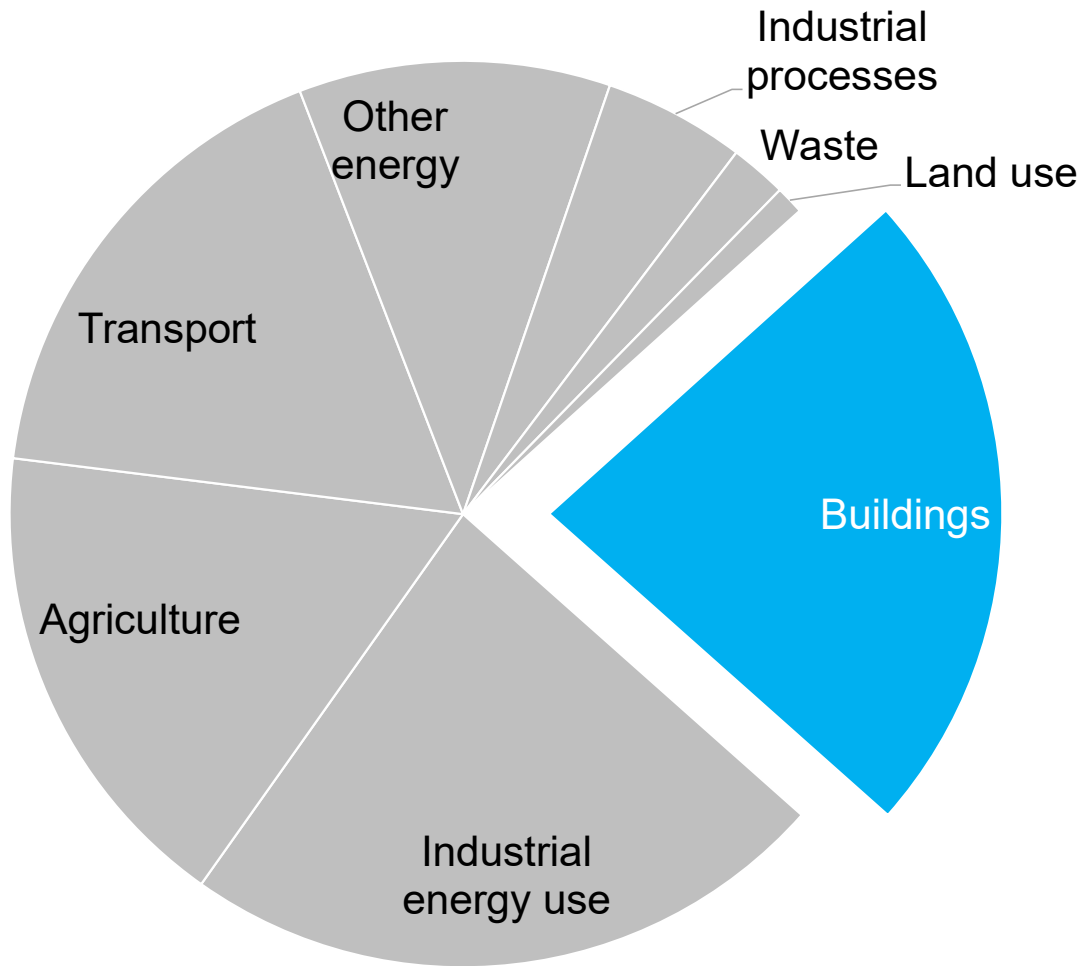


Top ten risks in terms of likelihood:

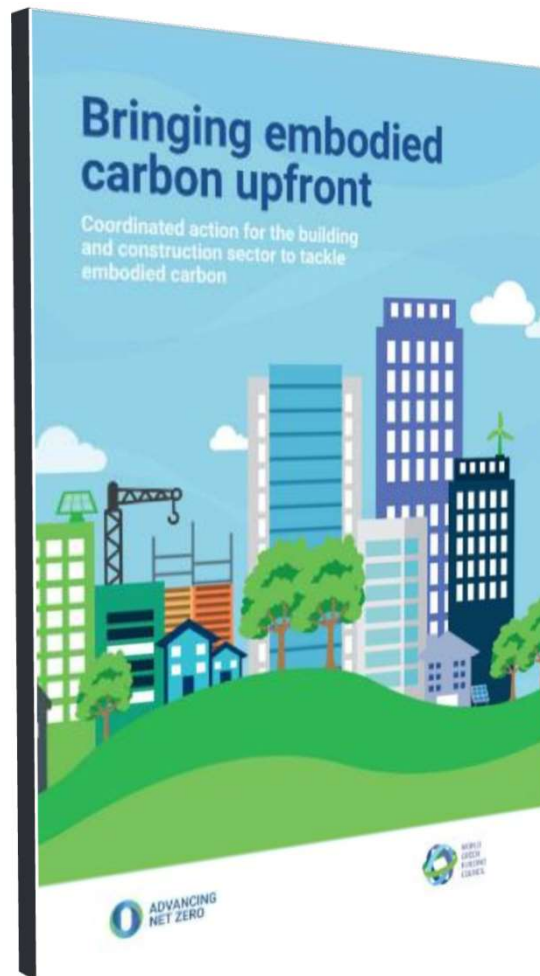
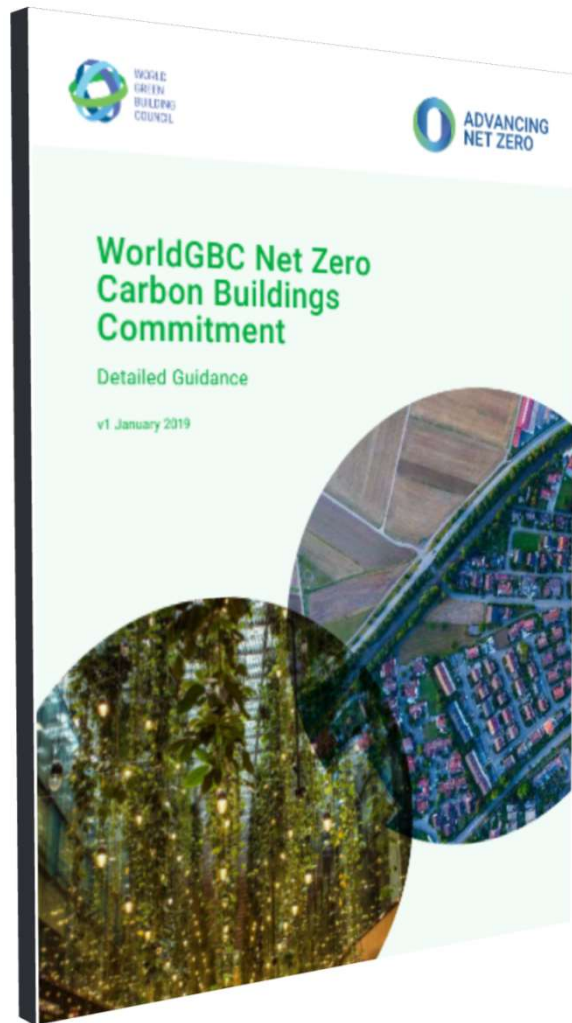
1. Extreme weather
2. Climate action failure
3. Natural disasters
4. Biodiversity loss
5. Human-made environmental disasters

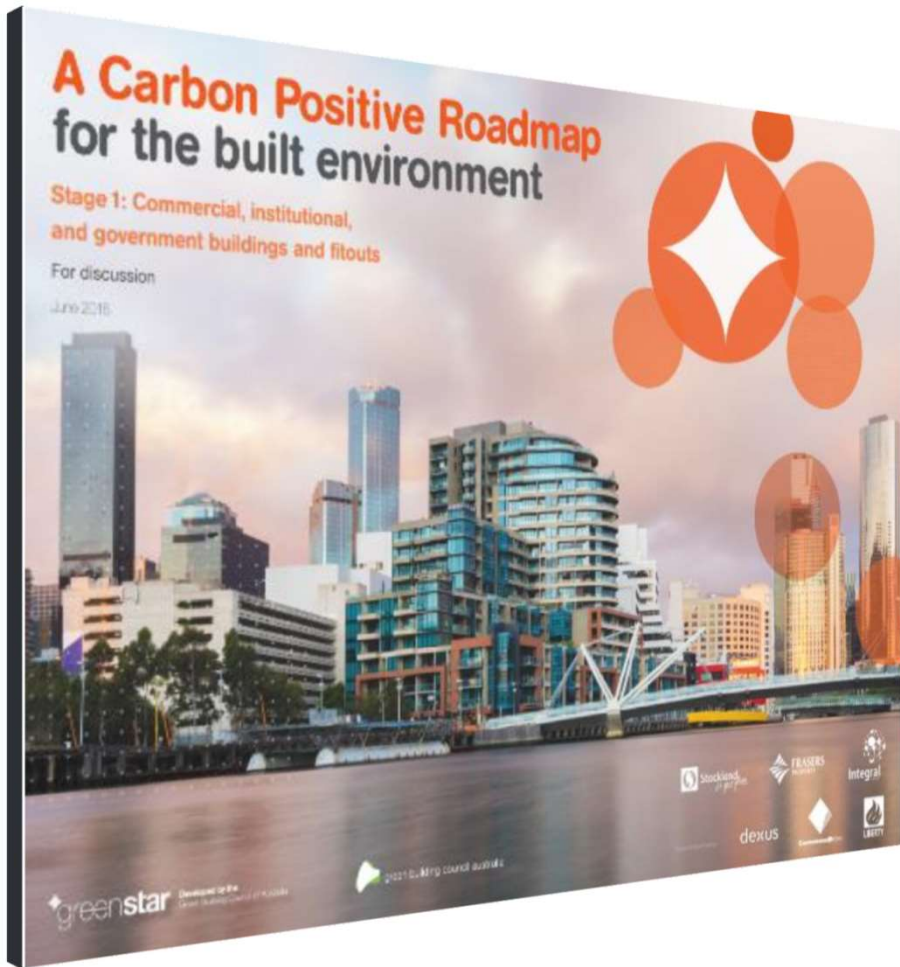
Top ten risks in terms of impact:

1. Climate action failure
3. Biodiversity loss
7. Natural disasters
9. Human-made environmental disasters



**Buildings  
represent  
23% of all  
emissions in  
Australia**





# Why are we changing Green Star?

Global megatrends are shaping the built environment like never before



1 Carbon emissions

3 Water consumption

6 Health and wellbeing

2 Resilience

4 Nature

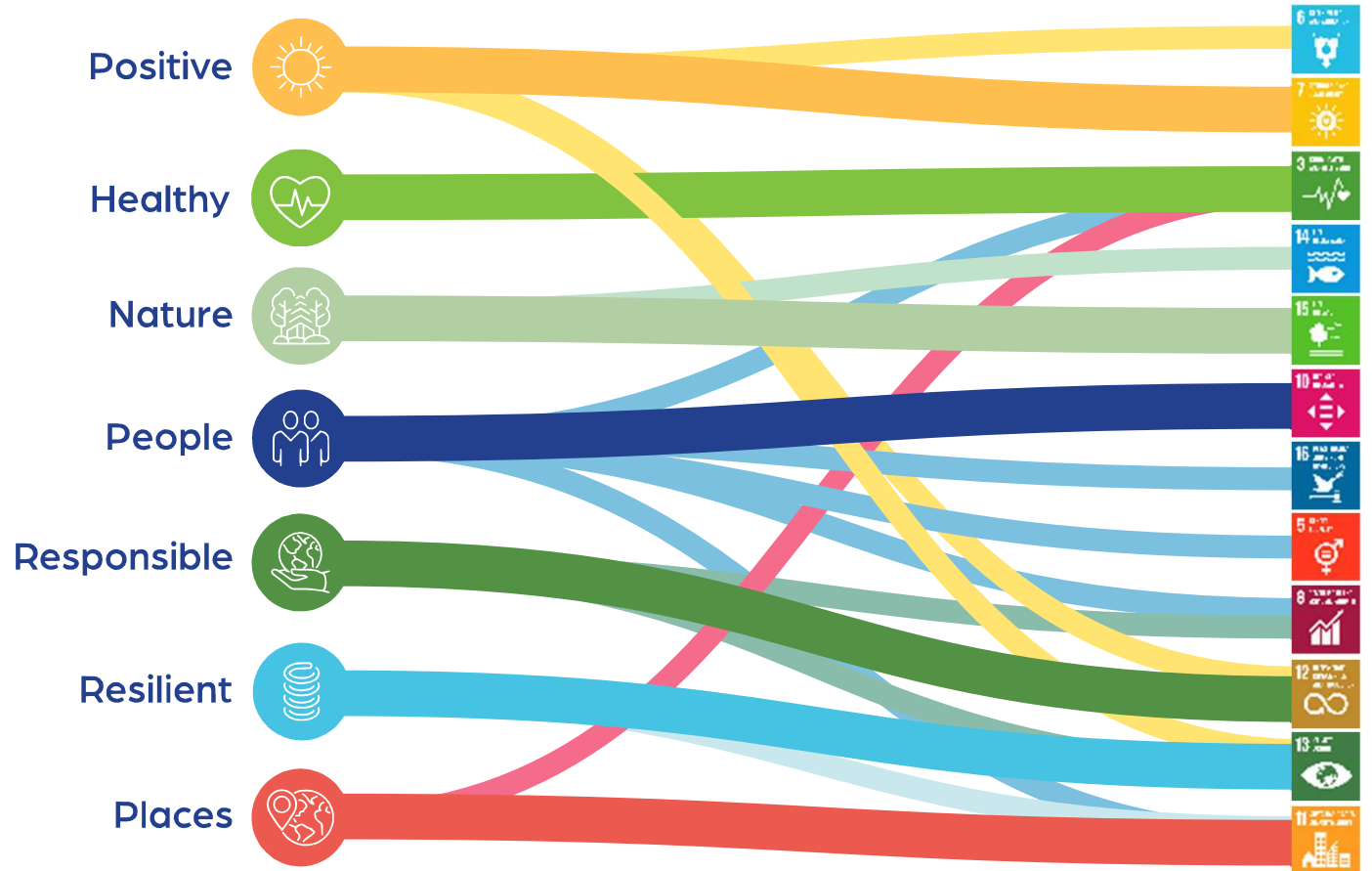
7 People

5 Circular economy



# Addresses the Sustainable Development Goals

Green Star Buildings directly or indirectly addresses 12 out of the 17 UN Sustainable Development Goals. A first for a Green Star rating.



# A new definition

**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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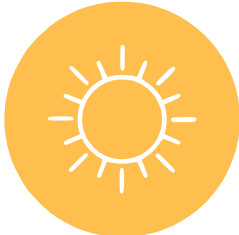
Healthy

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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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# Resilience for buildings

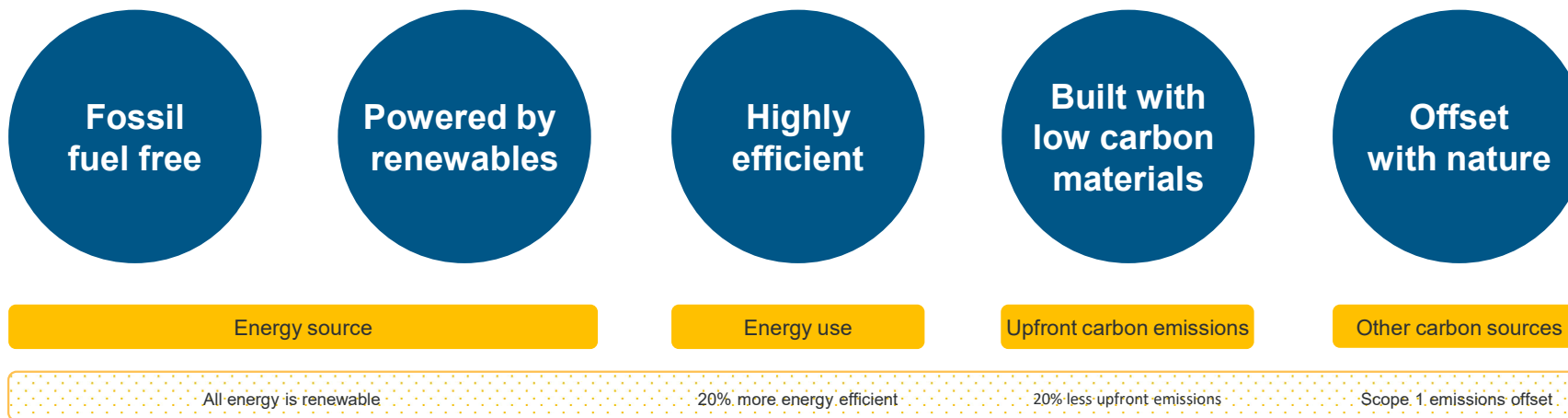
## Green Star Resilience Principles:


1. Enable people-centered decision making through inclusive engagement and consultation.
2. Assess impacts and opportunities within and beyond a project's boundary and current situation.
3. Consider, identify, address impacts of acute shocks and chronic stresses locally and on the asset.
4. Enhance capacity of community, businesses and assets to continue, respond and thrive.
5. Enable ongoing disclosure, communication and evaluation of resilience over time (transparency).

# Net zero for buildings

Our new **POSITIVE** category aims to drive every building towards net zero carbon in operations with a focus on transformational change.

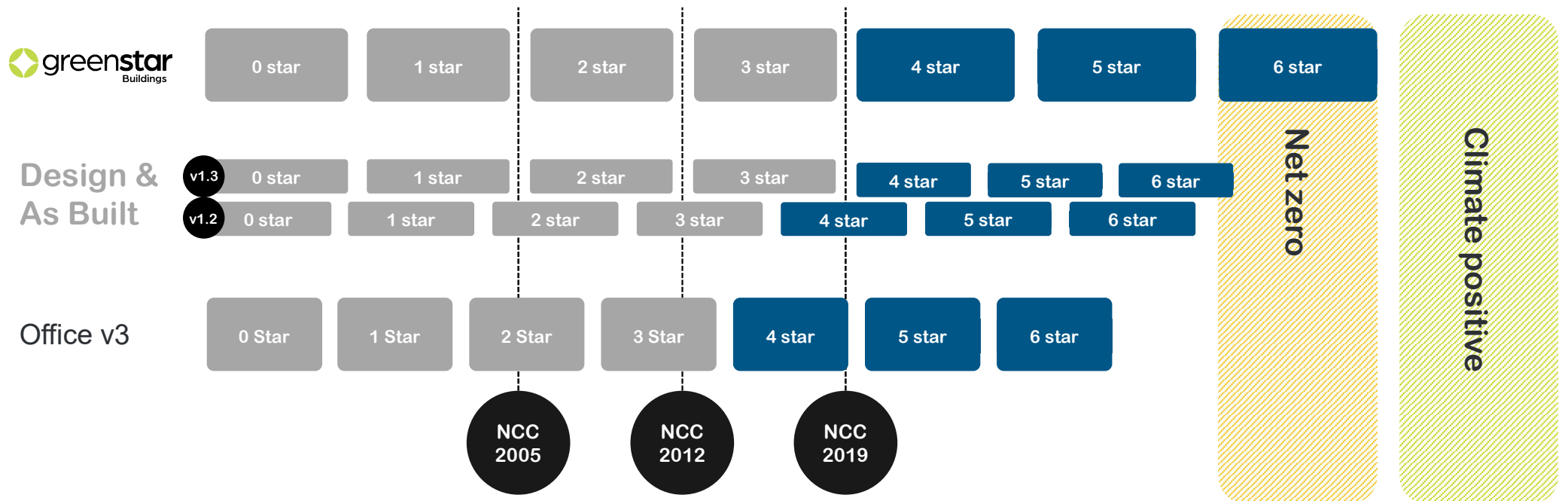
This is our formula that every building should follow. **And every 6 Star rated building does this as a minimum.**



 Net zero carbon in operations path, required for 6 star rated buildings

# Meets the Paris Agreement targets

**Green Star Buildings** requires 6 Star Green Star rated buildings reduce their energy demand and be powered by renewables.



# Powerhouse Parramatta



- 30,000 sqm in size, including 18,000 sqm of exhibition and public space
- 100 kw solar array
- Fully electric with small allowance for traditional flame cooking
- Onsite renewable energy complemented by GreenPower
- Predicted 30% reduction in operational energy use against BAU
- Mechanical systems and plant room space able to accommodate worst-case temperature increases

# M\_Park Building A

- Nestled in a 55,000 sqm low-carbon precinct boasting commercial, co-working, convenience retail, childcare and casual dining
- 130 kilowatt solar array
- Fully electric building with electric heating and hot water
- Onsite renewable energy complimented by GreenPower



# Green Star Communities (Proposed)

## Resilience credits

- Climate change
- Infrastructure dependency
- Resilience to other impacts
- Community resilience

## Positive credits

- Low energy demand
- Operational Carbon (mandatory)
- Other carbon sources
- Integrated water cycle Carbon in materials
- Impacts from resources





# Future Homes



- The Green Star Homes standard will be used to assess Australian homes against three key criteria which we think are important for homes of our future:
- Positive: net zero in energy, fully electric, draught sealed, efficient and powered by renewables
- Healthy: ventilated, comfortable, with products that are better for you
- Resilient: water efficient and climate change ready.

# Key Observations



green building council australia



# Perspectives from the Randwick Collaboration Area

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## Presentation 3

### **Duncan Read**

Director, Connell Griffin &

Program Director, Randwick Collaboration Area Group



Working together  
for low emissions  
and resilient  
places

connell  
griffin

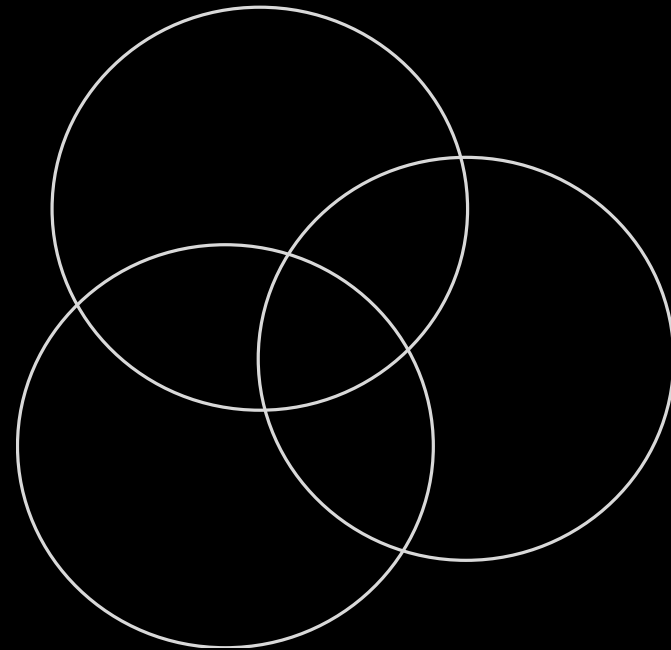
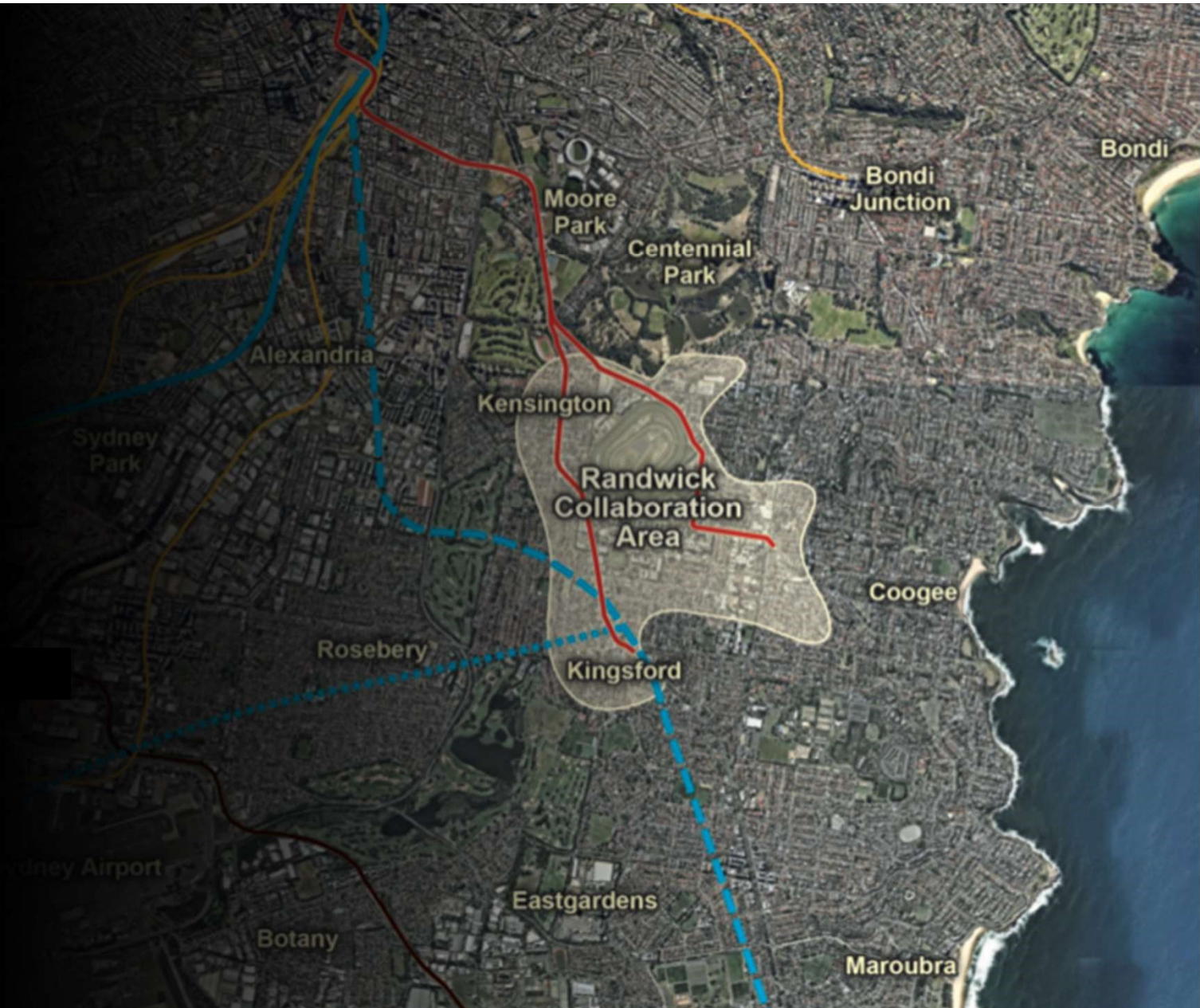




Image: adapted from Randwick Place Strategy, GSC 2018





Randwick LGA has...

- 29km of coast, 10 beaches , 8 ocean pools
- 154,000 residents
- 13,464 businesses
- 57,355 local jobs
- 85,138 residents in work

Collaboration Area alone has...

- 4 Hospitals, 13 Medical Research institutes
- 1.8 million patient interactions
- 68,000 student enrolments at UNSW
- NIDA, theatres, music venues, libraries
- TAFE courses and skills training
- Royal Randwick Racecourse & events
- Public and private schools
- Open space, fitness and aquatic centre

# More by working together



View from Botany Street at Gate 11 UNSW

more  
integrated activity

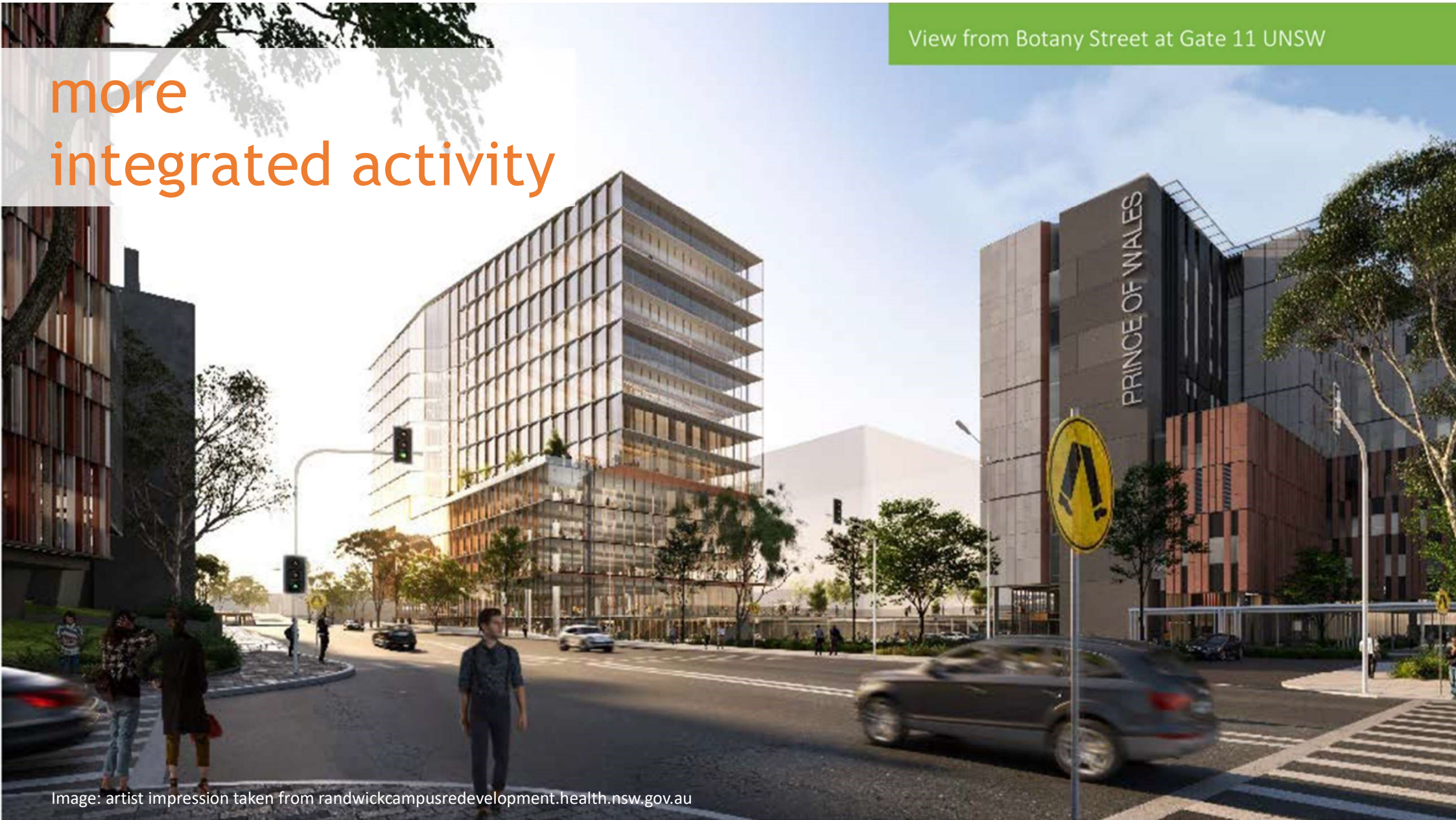


Image: artist impression taken from [randwickcampusredevelopment.health.nsw.gov.au](http://randwickcampusredevelopment.health.nsw.gov.au)



more shared  
& adaptive spaces



# more innovation applied to local problems

## UNSW startup goes local: tech solutions for Randwick City Council beaches



15 JUL 2020 | JULIA JONES

Young entrepreneurs partner with Randwick City Council to deliver smart lockers at Coogee and Maroubra Beach.



Yellowbox founders Ben Delaney, Vanessa Zhao, Ho Jun Tang and Adrian Brossard.



Yellowbox smart lockers at Coogee Beach.

Images: from UNSW Newsroom, July 2020

more  
responsive  
action

The screenshot shows the Randwick City Council website in a browser window. The URL is randwick.nsw.gov.au. The page features a dark blue header with the council logo and navigation links. A main navigation bar contains categories like 'About Council', 'Services', and 'Community'. A search bar is located on the right. Below the header is a large image of people. A breadcrumb trail reads: Home > About Council > News > Parking help for frontline hospital staff.

**ABOUT COUNCIL**

- Council & Councillors
- Business
- History
- Jobs
- Policies, plans & forms
- Administration
- News

**Latest News**

- Mayor's messages
- Media contacts
- Randwick Scene Magazine
- eNews
- Randwick apps

## Parking help for frontline hospital staff

**Published Date:** 02/04/2020  
**News Topic:** Council

Special Permit Parking Zones have been created for some hospital staff



Parking for Emergency Department and Intensive Care Unit staff from the Prince of Wales Hospital and the Sydney Children's Hospital in Randwick, will be a little easier thanks to new parking measures being implemented by Randwick City Council this week.

Hospital staff from these departments can apply for a Special Temporary Parking Permit that will allow access to temporary Special Permit Parking Zones and to some of the Resident Parking Zones near to the hospitals.

The new Special Permit zones will be located on streets in close vicinity to the hospitals and will provide almost 80 special parking spaces. Hospital workers will also have access to over 200 parking spaces within residential parking areas close to the hospital as well.

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- Twitter
- Print
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- AddThis

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- Twitter
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- LinkedIn

**Related news**

- 11 NOVEMBER 2020**  
5 off-the-beaten-track walks in Randwick City
- 10 NOVEMBER 2020**  
Coogee Bay Road Shared Village officially opens ahead of summer

[View all news](#)

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Working  
together  
around  
place

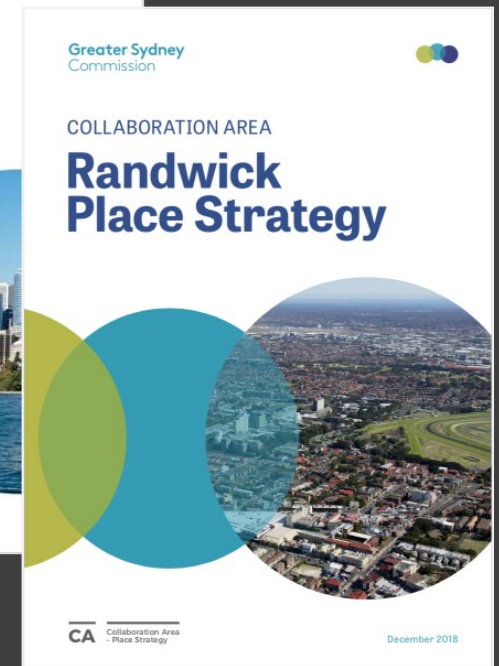
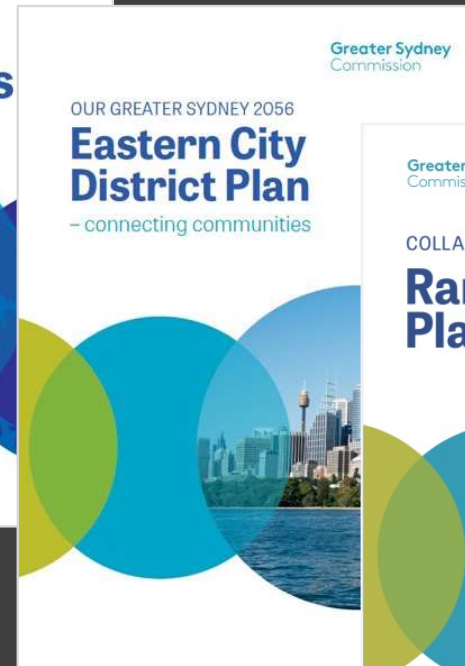
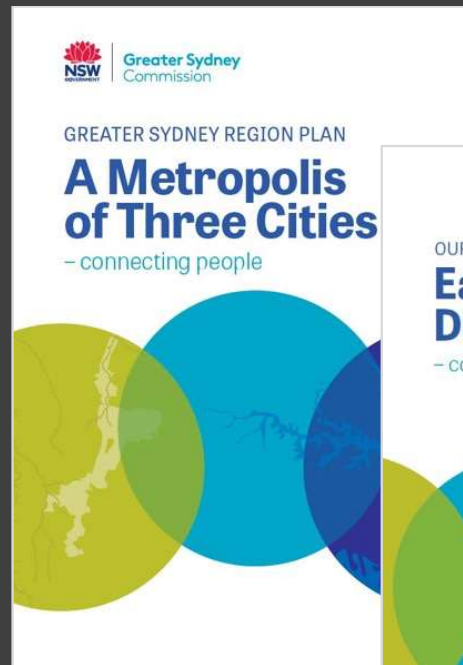




Image: from GSC website, 2020

	Connectivity			Liveability			Productivity	Sustainability			Governance		
<b>Priorities:</b>	<b>Priority 1:</b> Create an integrated and connected innovation district	<b>Priority 2:</b> Improve public transport to and from the Randwick Collaboration Area	<b>Priority 3:</b> Improve walking and cycling connections	<b>Priority 4:</b> Improve digital connectivity	<b>Priority 5:</b> Provide diverse housing	<b>Priority 6:</b> Strengthen Randwick's local economy	<b>Priority 7:</b> Provide social and civic infrastructure for current and future generations	<b>Priority 8:</b> Invest in Randwick health and education precinct	<b>Priority 9:</b> Protect environmental assets and open space to a high standard	<b>Priority 10:</b> Create an efficient place	<b>Priority 11:</b> Create a resilient place	<b>Priority 12:</b> Develop an enduring precinct-level governance structure to support the vision	<b>Priority 13:</b> Develop a coherent funding mechanism for the Collaboration Area
<b>Actions:</b>	<p><b>Action 1:</b> Complete the Randwick masterplan to progress the health and education precinct towards an innovation district that:</p> <ul style="list-style-type: none"> <li>integrates UNSW Kensington Campus and the Randwick Hospitals' Campus</li> <li>links to Randwick Junction, The Spot, and Randwick Racecourse</li> <li>promotes public permeability and provision of community and cultural infrastructure</li> <li>promote more efficient use of parking</li> </ul>	<p><b>Action 2:</b> Improve public transport capacity and frequency to support more services arriving and departing from Randwick and to improve connections to key destinations such as the CBD, Sydney Airport, Bondi Junction, Green Square-Mascot, Eastgardens-Maroubra Junction and La Perouse</p> <p><b>Action 3:</b> Develop a strategy for transport investigations and initiatives in the south-eastern suburbs of Sydney, including potential for mass transit to the Collaboration Area</p> <p><b>Action 4:</b> Improve pedestrian legibility and network usability to enhance wayfinding and access to public transport hubs</p>	<p><b>Action 5:</b> Enhance accessibility and permeability within the Collaboration Area for people walking and cycling</p> <p><b>Action 6:</b> Prioritise key cycling routes (including Todman Avenue and Lenthall Street) for the delivery of high quality separated cycling connections</p> <p><b>Action 7:</b> Improve cycling connections to key destinations surrounding the Collaboration Area</p>	<p><b>Action 8:</b> Prioritise the connection of high-speed broadband throughout the Collaboration Area</p> <p><b>Action 9:</b> Investigate a standardised approach to data management, sharing and intellectual property across key institutions, to promote the growth towards an innovation district</p>	<p><b>Action 10:</b> Investigate strategies for short to medium-term visitor accommodation including hotel and serviced apartments</p> <p><b>Action 11:</b> Provide diverse housing including affordable housing for key workers and students</p> <p><b>Action 12:</b> Explore partnership opportunities with LAHC, community housing providers and short-term accommodation providers to provide student accommodation and key worker affordable housing close to and within the Collaboration Area while ensuring a net increase in social and affordable housing near public transport</p>	<p><b>Action 13:</b> Develop and implement an integrated Collaboration Area retail strategy that considers the context of the wider local economy and opportunities for an expanded night-time economy, while supporting arts and cultural activities</p> <p><b>Action 14:</b> Investigate opportunities to share space at Randwick Racecourse, as well as primary, secondary, TAFE and tertiary education establishments</p> <p><b>Action 15:</b> Develop a public domain plan for the area that creates great places for people, and coordinates projects to match growth</p>	<p><b>Action 16:</b> Utilise best practice principles to facilitate affordable and adaptable floor space for start-ups, corporate partners and creative industries</p> <p><b>Action 17:</b> Ensure appropriate floor space provision for commercial interests and partnerships in new developments</p> <p><b>Action 18:</b> Strengthen the TAFE NSW Randwick presence by increasing vocational training related to health and innovation through co-location opportunities or multi-function buildings</p> <p><b>Action 19:</b> Create an international brand and story emphasising the success of the innovation district and strategies to attract further investment</p>	<p><b>Action 20:</b> Increase street tree canopy across the Collaboration Area with redevelopment and public domain improvements</p> <p><b>Action 21:</b> Implement opportunities for Green Grid connections, including east-west connections from the coast to the Mill Stream and Botany Wetlands Open Space Corridor</p>	<p><b>Action 22:</b> Prioritise low-carbon initiatives in future developments such as adaptive building designs and use of renewable energy generation</p> <p><b>Action 23:</b> Investigate Randwick as a potential pilot project for a low-carbon high-efficiency precinct</p>	<p><b>Action 24:</b> To improve energy, waste and water efficiencies through future development, proponents must utilise design excellence principles and design competitions to:</p> <ul style="list-style-type: none"> <li>introduce best-practice environmental and sustainable design to buildings and public domains</li> <li>incorporate smart technology and water sensitive urban design features</li> </ul>	<p><b>Action 25:</b> Establish a Collaboration Area Governance Group to:</p> <ul style="list-style-type: none"> <li>strengthen and promote Randwick's evolution- towards an innovation district</li> <li>create opportunities for private sector investment, start-ups and commercialisation of research</li> <li>develop economic development strategies, planning frameworks and infrastructure plans</li> </ul> <p><b>Action 26:</b> Identify funding to operate the Collaboration Area Governance Group</p>	<p><b>Action 27:</b> Identify a range of funding sources (such as sponsorships, grants, contributions, planning agreements or agency budgets) to deliver this Place Strategy</p>	
	<p><b>Immediate imperatives</b></p> <ul style="list-style-type: none"> <li><b>Action 25:</b> Establish a Collaboration Area Governance Group</li> <li><b>Action 26:</b> Identify funding to operate the Collaboration Area Governance Group</li> </ul>												

Image: from Randwick Place Strategy, GSC 2018

# SUSTAINABILITY

We are committed to maintaining a leadership position in sustainability practices and have a strong track record in achieving sustainability outcomes.



## UNSW steps up action on climate change

| 05 Mar 2020

Home

Share

UNSW Sydney will add to its credentials as a world-leader on climate science, renewable energy and sustainability by moving away from investment in fossil fuels.



Home > Environment & sustainability



### Environmental Sustainability

At South Eastern Sydney Local Health District (SESLHD), we recognise the benefits of an environmentally sustainable healthcare system. Improving our environmental performance will have health and financial rewards for our community, as well as environmental advantages for the planet.

#### Our initiatives

In this section

Resources

#### Contact us

Phone: 02 9382 7865

Fax: 02 9382 7651

# 'Making it Real'



connell  
griffin

Image: from Randwick Workshop, Feb 2020



# 'It's a good idea, but...'

'we have **other priorities** right now'

'We don't have time **we are busy** on this'

'There's **no funding** this year'

'We've **already done something** like that'

'I'm **not sure** who's working on that for us'

'What if **we don't agree** on scope or precinct boundaries?'

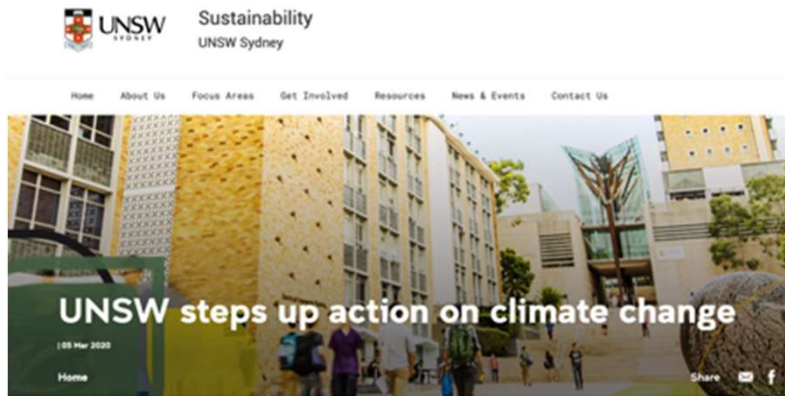
# 'Making it Real'

## Main purpose

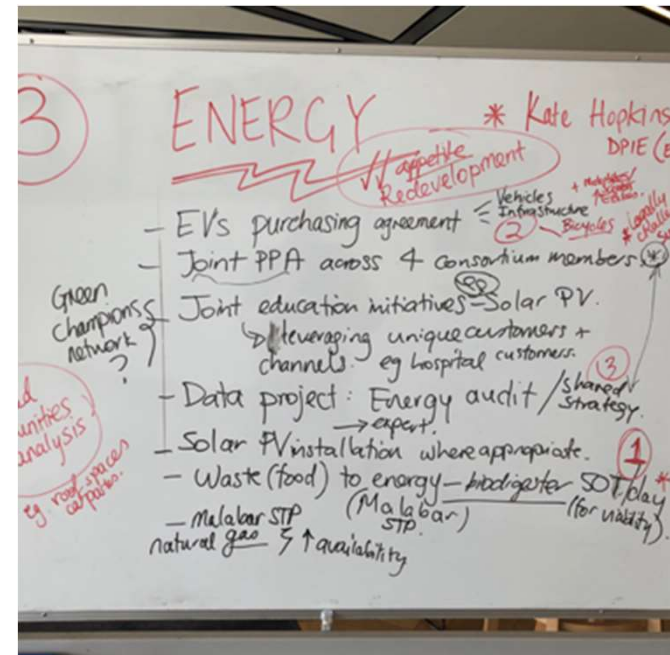
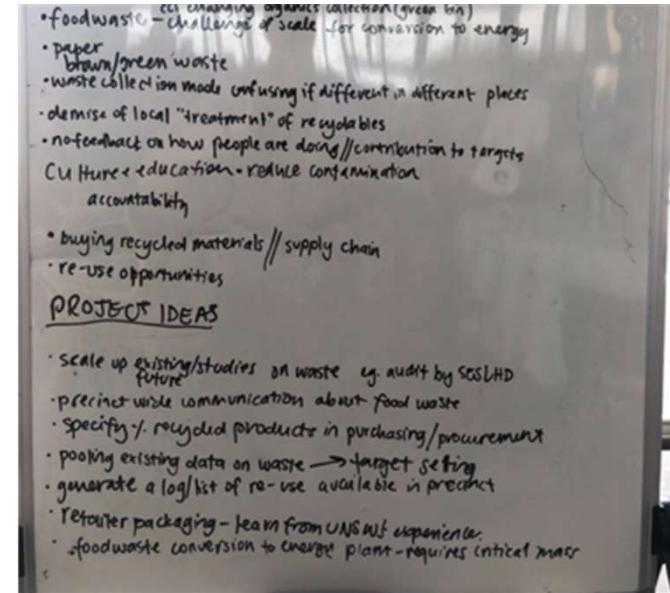
To identify gaps & joint initiatives

## Other objectives

- share work in progress
- precinct insights
- strengthen networks
- explore priorities
- build momentum



UNSW Sydney will add to its credentials as a world-leader on climate science, renewable energy and sustainability by moving away from investment in fossil fuels.



# Randwick Collaboration Area Emissions Reduction Strategy

a 12 month project to ...

## **Inform**

understand the  
area's emissions  
profile

## **Align**

identify and  
prioritise joint  
projects

## **Attract**

showcase  
Randwick to scale  
opportunities

## **Influence**

highlight what  
might be possible

# Where We Are



Feb 20      Apr 20      Jun 20      Aug 20      Oct 20      Dec 20      Feb 21      Apr 21      Jun 21

## Phase 0: Idea Workshop

**Phase 1: Scoping (three months)**  
 Concept development  
 One-on-one engagement  
 Project plan & brief

**Phase 2: Strategy development (six months)**  
 Confirm funding & governance  
 Brief & engage consultant  
 Collect data, consult partners  
 Develop strategy / non-binding recommendations

**Phase 3: Report & advocate**  
 Complete strategy  
 Share, advocate & lobby  
 Raise support & funding

# Joint opportunity

## Early outcomes / future expectations

- Stronger local networks and insights
- Group support and contributions
- Direction for joint action
- Emission baseline for Collaboration Area
- Case for change / future investment
- Lessons for new projects / elsewhere

An aerial photograph of a city, likely Melbourne, Australia, showing a large stadium (Melbourne Cricket Ground) on the left, surrounded by residential areas and green spaces. The image is overlaid with text and a semi-transparent dark box.

More informed

More adaptive

More innovative

More responsive

More impact together

Working together  
to support place  
outcomes



## Q & A

**Slido.com**  
**Event code: #adaptnsw2**



# **Webinar Evaluation**

**Slido.com**  
**Event code: #adaptnsw2**





*Thank you!*

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**Contact us:  
[adapt.nsw@environment.nsw.gov.au](mailto:adapt.nsw@environment.nsw.gov.au)**