



Acknowledgement of Country

Today's format

2 Presentations

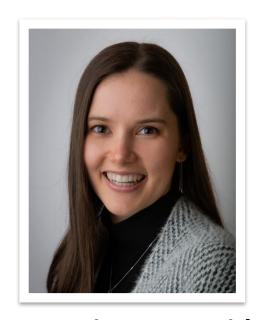
- Role of Health Promotion in the Anthropocene
- Importance of cultural and ecological determinants
- Health co-benefits of climate action

•2 Case studies

- Action in the Kooweerup region: Food systems and Active living
- Climate Adaptation Requires Youth Action (CARYA) Program, Banksia Gardens Community Services
- Quick poll
- Break-out group discussions



Our presenters



Georgia Langmaid
Planetary Health Project
Officer
Enliven Victoria



Dr Rebecca Patrick

- Climate and Health Alliance
 - President/Chair
- Deakin University
 - Senior Lecturer in Health Promotion
 - Director Sustainable Health Network
 - Co-lead Health, Nature, Sustainability
 Research Group
 - Course Director Masters of Health and Human Services Management
- Health Promotion Journal of Australia
 - Editor



Our presenters



Aileen Thoms
Director of Primary Health and
Innovation Manager
Kooweerup Regional Health Service



Edgar Caballero Aspe

Education and Sustainability Coordinator

Banksia Gardens Community Services



Planetary Health Project Officer at Enliven Victoria

Health Promotion Journal of Australia



LONG RESEARCH ARTICLE

Applying the Mandala of Health in the Anthropocene

Georgia Langmaid ⋈, Rebecca Patrick, Jonathan Kingsley, Justin Lawson

First published: 17 October 2020 | https://doi.org/10.1002/hpja.434

Access here: https://onlinelibrary.wiley.com/doi/10.1002/hpja.434

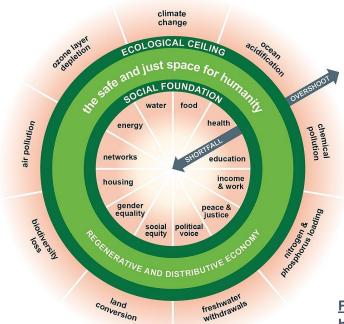




What is the Anthropocene?

Anthropocene: 'The term Anthropocene suggests: (i) that the Earth is now moving out of its current geological epoch, called the Holocene and (ii) that human activity is largely responsible for this exit from the Holocene, that is, that humankind has become a global geological force in its own right' (Steffen et al. 2011, p. 843).

- Ecosystem services are fundamental to sustain life.
- Ecosystem services are being pushed to its limits due to human activity.
- This is a risk to human health (and other living species).

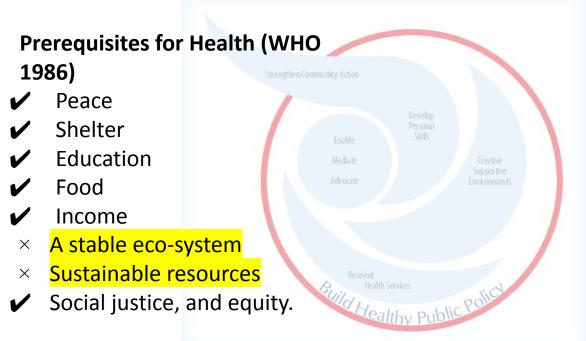


<u>Figure 1 - Doughnut: Earth's ecological</u> boundaries (Raworth, 2017)

Planetary Health

Planetary Health: is 'based on the understanding that human health and human civilisation depend on flourishing natural systems and the wise stewardship of those natural systems' (Whitmee et al. 2015, p. 1974).





'Ecologically Blind'

Ecological determinants of health: these are the ecosystem-based 'goods and services' that are provided by nature.

Among the most important of these are oxygen, water, food, fuel, various natural resources, detoxifying processes, the ozone layer and a reasonably stable and habitable climate' (Hancock, Spady & Soskolne 2015, p. iv).

Prerequisites for Health (WHO 1986)

- Peace
- ✓ Shelter
- ✓ Education
- ✓ Food
- ✓ Income
- × A stable eco-system
- × Sustainable resources
- ✓ Social justice, and equity.

"Australia lags behind comparable countries when it comes to tackling the health impacts of climate change."

"The last thing you want to do is have the ecological determinants here and the social determinants here and not talk. Not engage them."

"I think that is a more contemporary way to look at it - meshing the social determinants with the ecological determinants. So that people can kind of get it a bit better."

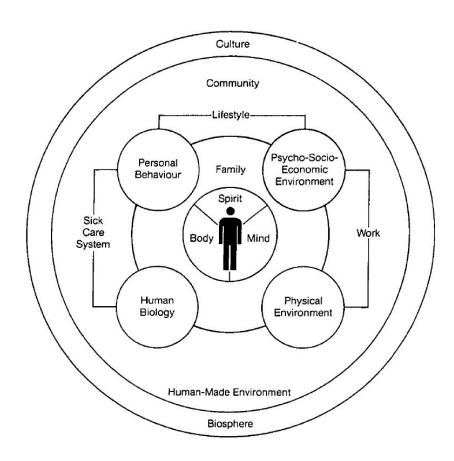
Cultural determinants of health

- Health Promotion has been criticised for being western centric, particularly not integrating Indigenous knowledge systems and for lacking emphasis on cultural determinants.
- Indigenous knowledge systems can be key in addressing climate and health issues.

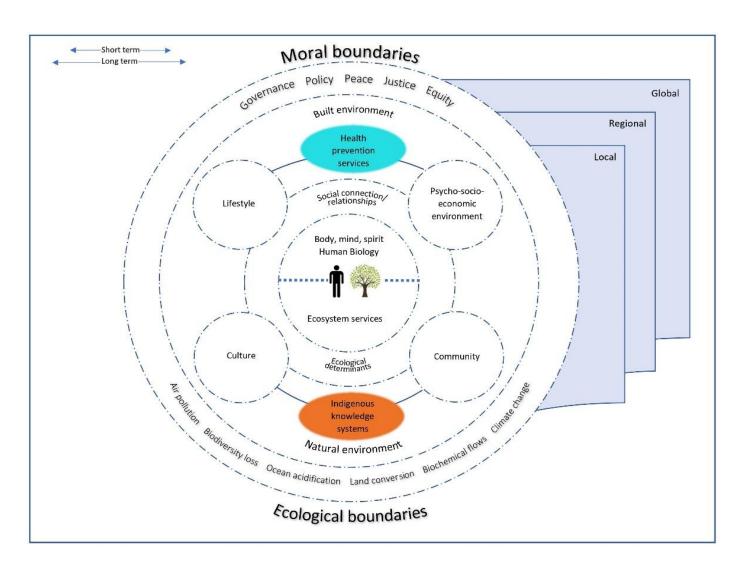
"If you look at what it is that's driving ecological change, it fundamentally has to do with our cultural values."

"They [Indigenous cultures] have a kind of understanding that you don't take more than what you need from their environment. We just do not have that."





Hancock & Perkins 1985



Langmaid et al., 2020

Climate change, Nature & Mental Health Promotion: A setting for co-benefits

Dr REBECCA PATRICK

Director, Sustainable Health Network
Co-led Health, Nature, Sustainability Research Group
President/Chair, Climate and Health Alliance











About Climate and Health Alliance (CAHA)



- Coalition of 80 health groups—mobilising health for climate action www.caha.org.au
- Part of Climate Action Network Australia bringing health perspectives and health voices to the climate movement
- Partner and affiliate of Health Care Without Harm www.noharm.org
- Part of the broader global effort part of the Global Climate and Health Alliance <u>www.gcha.org</u> and WHO Working Group for Action on Health and Climate Change
- <u>Leading Our Climate Our Health campaign www.ourclimate-ourhealth.org.au</u>
- Coordinate the Pacific region of Global Green and Healthy Hospitals network <u>www.greenhospitals.net</u>



Health is the most effective frame when communicating about climate change

A study of public responses to messages about climate change found a focus on public health was most consistent with support for climate change mitigation and adaptation (Myer, et al, 2012)

Maibach et al. BMC Public Health 2010, 10:299 http://www.biomedcentral.com/1471-2458/10/299



RESEARCH ARTICLE

Open Access

Reframing climate change as a public health issue: an exploratory study of public reactions

Edward W Maibach*1, Matthew Nisbet1,2, Paula Baldwin1, Karen Akerlof1 and Guoqing Diao3

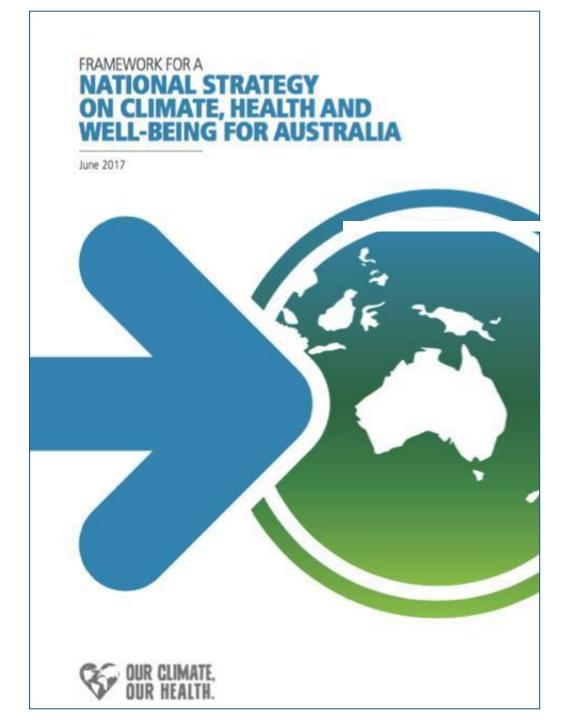
Abstract

Background: Climate change is taking a toll on human health, and some leaders in the public health community have urged their colleagues to give voice to its health implications. Previous research has shown that Americans are only dimly aware of the health implications of climate change, yet the literature on issue framing suggests that providing a novel frame - such as human health - may be potentially useful in enhancing public engagement. We conducted an exploratory study in the United States of people's reactions to a public health-framed short essay on climate change.

Methods: U.S. adult respondents (n = 70), stratified by six previously identified audience segments, read the essay and were asked to highlight in green or pink any portions of the essay they found "especially clear and helpful" or alternatively "especially confusing or unhelpful." Two dependent measures were created: a composite sentence-specific score based on reactions to all 18 sentences in the essay; and respondents' general reactions to the essay that were coded for valence (positive, neutral, or negative). We tested the hypothesis that five of the six audience segments would respond positively to the essay on both dependent measures.

Results: There was clear evidence that two of the five segments responded positively to the public health essay, and mixed evidence that two other responded positively. There was limited evidence that the fifth segment responded





A high-level framework to guide government policy and decision-making

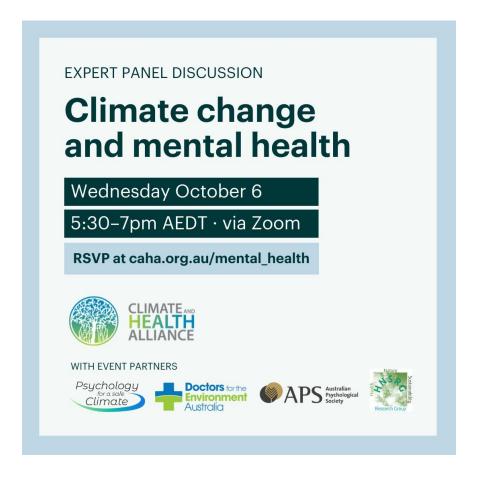
- to support policy responses to recognise, manage, and respond to the health risks of climate change and promote health through climate change action
- meet Australia's commitments under the Paris Agreement
- framework against which to demonstrate progress against the Lancet Countdown Indicators

https://www.caha.org.au/national-strategy-climate-health-wellbeing

Climate and Health Alliance – policy, advocacy and education







Health, Nature, Sustainable Research Group



Nkoli Mmako - Feasibility of a community garden program for a Social Housing Development

Laura Ayres - The Koo Wee Rup Men's Shed: Human Health and Environmental Sustainability Evaluation Yotti Kingsley - "If the land is healthy... it makes the people healthy"

Isabella Ryan - Systems thinking, health promotion and climate change

Georgia Langmaid —

Moral boundaries

Moral boun

Chris Reed - The origins, development and perceived effectiveness of horticulturebased therapy programs

Marina Lewis Transitioning towards an
ecological paradigm: a
role for public health

Ashima Masiwal - Applying a Health lens to current Victorian Climate Change Framework





Link between mental health & nature



Planetary Health - health of humans inextricable linked to health of planet

Biophilia hypothesis – we require contact with nature for psychological wellbeing

Climate change and environmental degradation are public health – health promotion issues

Loss of nature, urbanisation, technology – environmental deprivation

Climate / environmental action has co-benefits for human mental health

Nature is a setting for health promotion



Climate, nature and public health in 2020+





Climate change and psychological distress



Terms used to describe the impact of climate change on psychological distress:

- Anxiety: Eco-anxiety / Climate Anxiety / Ecoparalysis.
- Anger: Eco-anger
- Depression: Eco-depression / Eco-despair.
- **Grief**: Eco-grief / Climate Grief / Solastalgia.
- Trauma: Pre-traumatic Stress, PTSD



Impacts of Climate Change on Mental Health



Before

Anxiety; anticipatory trauma and grief;

During

• Stress;

After

• Cultural displacement; post-traumatic stress;

Our Research - nation-wide, general population



Study Aim - snapshot of the mental health impact of climate change on the Australian population, as well as active coping and mental health help-seeking behaviours

N= 5828 adults 18+ nation-wide

Online survey (Aug – Nov 2020)





Our research – nation-wide, general population



55% direct experience of climate change

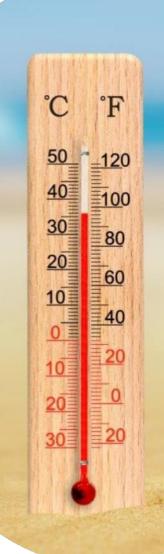
67% climate change – 'very much a problem' personally (vs 25% C19, 15% employment & retirement, 13% health)

Eco-anxiety among 18 - 24 y/o(24%); 25 - 34 (20%)

PTSD (26%)

Coping - not seek traditional mental healthcare rather self-prescribing own solutions

• Becoming informed about problems and solutions (72%), viewing or visiting natural₁ e_5 nvironments (66%) and changing lifestyle to be more sustainable (63%).



Our research – nation-wide, general population



"As a young person I feel that climate change directly impacts my mental health. I often feel quite hopeless when thinking about my future and the future of this planet, especially seeing our politicians and big businesses continually putting profit before climate and our people."

"Mostly I just feel overwhelmed or Fustrated/Angry at those in positions of power choosing to not take action. Also worry about having children."

"Best support for mental health related to climate change: being able to have confidence that our governments are acting concretely through policy and funding to mitigate the extent and risks of climate change. Fear is being instigated by 'green types' and leftist governments."

"Mental health problems are not due to 'climate change' but by scaremongering. I live at sea level we have no sea level rise. Although we are told we are. We are on the beachfront.

16 It is not happening."



Priority populations



- ✓ Young people
- Scientists
- ✓ Environmental workers
- ✓ Indigenous communities
- ✔ People with direct experience of climate change related event, e.g. bushfire, flood



Young people (18-24 years) are one of the most vulnerable population groups for mental health issues related to climate change (Research Australia 2020)

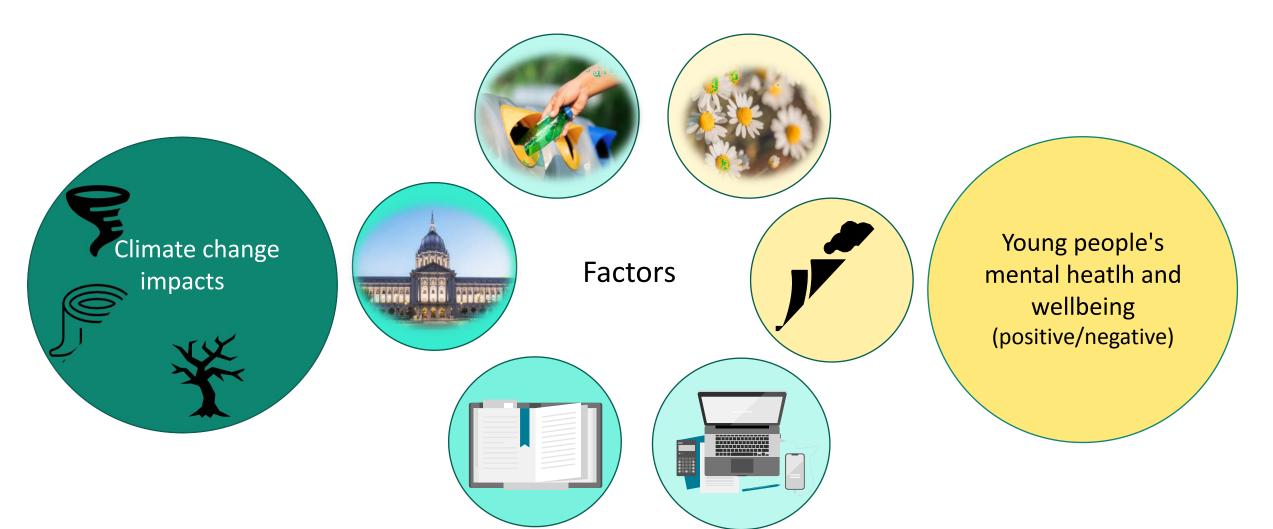
Around 50% of young people in Victoria identified strong negative feelings towards climate change; sadness, anger, and fear (Sustainability Victoria 2020)

Youth with strong sense of **community** & **connection** with natural environment, better resilience to climate change

Self-efficacy, resilience and agency **increased** in young people active in climate action

Our research – determinants of climate-related mental wellbeing





Our research – young people's voices



I feel like it's quite empowering to know that you are gonna be part of the generation that hopefully brings about the positive change ... [Climatehero5]



Erica Crawford: Australian Youth Climate Coalition (AYCC); School Strikes, Climate activist; Year 12 student

Our research - co-benefit interventions

Theme	Perceived benefits
Mental/emotional	 Sense of satisfaction and achievement: it makes you 'feel good inside' (EV, OR) Praise from others (EV, OR) Improves self-esteem (EV, EV) 'Buzz' from watching an area transform (EV) Sense of empowerment (EV) Mental health benefits (EV), including for those living with mental health concerns (OR)
Social	 Friendships and social connections (EV, OR) Finding and engaging with 'like-minded people' (EV, OR) Sense of belonging (EV) Brings 'out the best in people' (EV) A 'great leveller': participation regardless of background, disability status, political views (EV) Helps break down barriers (eg between staff in corporate organisations, people from diverse backgrounds (OR)
Individual skills and capabilities	 Career benefits; skills and experience for the CV; English language development; (OR) Learning about Australian culture (especially for new migrants) (OR)
Spiritual	Spiritual uplift (EV)
Physical	 Health benefits of keeping fit and healthy (OR) Connection to place (EV) Maintains involvement in environmental issues (during parenting) (EV) Learning about natural environment (which, in turn, fosters concern) (OR)
Human-Environment interaction (connection with nature)	
Natural Environment	Biodiversity; improved ecosystem health; habitat protection (OR)



Our research – nature-based interventions



Childhood contact with nature - High contact, lower neuroticism in adulthood (Snell et al 2020)

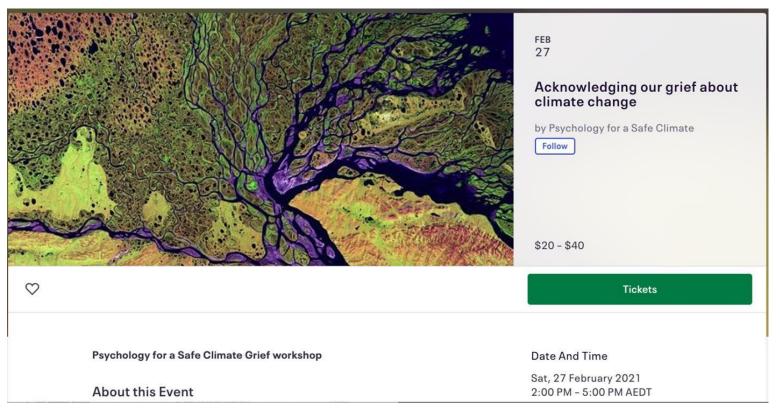
Nature-based activities - People with mental illness when participating in nature-based and outdoor activities improves mental health, self-management of illness (Ebden & Townsend 2015)

Green prescriptions - Prevention & management of mental health issues (Habana 2020)

KRHS Mens Shed – human-environmental interactions, sustainability outcomes, social inclusion and mental health

Psychology for a Safe Climate







People and Parks foundation





Home

About



Projects

Donate



Thank you sustainablehealth@deakin.edu.au

president@caha.org.au

Quoted studies:

Gunasini, Wang, Patrick et al (2020) Climate change, mental health and young people study: preliminary findings, Deakin University

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World Health Organization 2020, 'Mental health: strengthening our response', World Health Organization. retrieved 17 April 2020, https://www.who.int/news-room/fact-sheets/detail/mental-health-strengthening-our-response

A climate lens on health promotion A Small Rural Health Service Approach

Aileen ThomsMHP, Grad Cert HP/H Ed Emergency Nursing, Dip LS/Nursing, RN,RPN

Climate Change and Health Promotion Enliven and partners October 2021

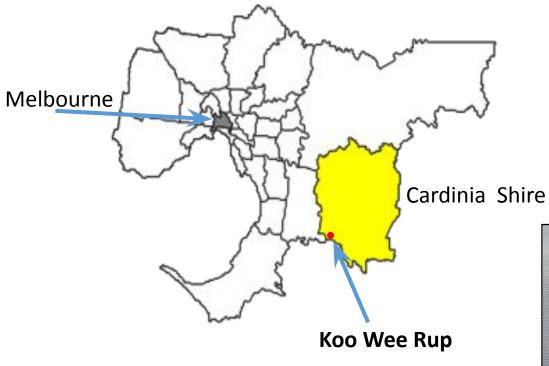




Koo Wee Rup, Victoria, Australia

Former marshland, now asparagus and potato farms, market gardens and dairying





Shocks and stresses challenge our health system







Mitigate

Climate Resilience

Leadership

Socio-ecological place based approach

- Interconnection between humans and their environment
- Build strong climate resilient communities







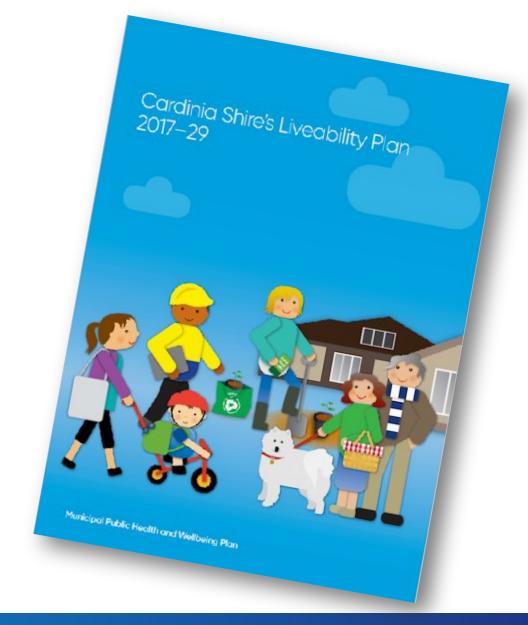




Health Promotion plan

Key Priority: Cardinia Livability Plan (Municipal Public Health and Wellbeing)

- Promoting community safety
- 🔽 Improving social connection
- Awareness of climate change



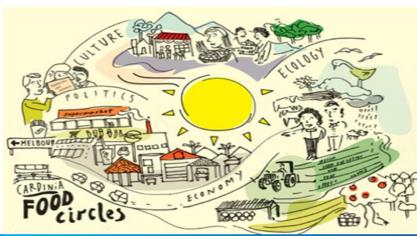




Mutual benefits for health



Help communities feel part of a bigger picture by creating common goals can motivate action.













Active places - Get Active Koowee

- Advocacy for open space, Nature related community engagement
- Tree planting projects reduce heat island effects and make spaces more habitable to be active in and supports habitat
- Get Active Koowee







The Ready2Go program was born out of a recognised need to assist vulnerable people prior to and during heatwaves, other serious weather events such as storms and bushfire danger days

 Connects with trained volunteers, who provide information, support, visitation checks, phone calls and support for early relocation prior to extreme weather events including heat and other emergencies.











Towards a Healthier Community

Koo Wee Rup

READY2GO













Aileen Thoms

Aileen.thoms@krhs.net.au



























Edgar Caballero Aspe, PhD Education and Sustainability Coordinator Banksia Gardens Community Services

edgar.c@banksiagardens.org.au www.banksiagardens.org.au



Climate Adaptation (CARYA) Requires Youth Action (CARYA)

We are a NFP community service, established in 1981.





We aim to build social cohesion and reduce structural disadvantage

Banksia Gardens Community Services



Our programs include:



Adult education

Youth Education

Community groups

Youth Justice and support

Alternative schools (primary and secondary)

Environmental, climate adaptation programs

What is CARYA?

Climate Adaptation Requires Youth Action



The **CARYA JOURNEY**



Binomial name:

What is CARYA?

- 10 week training program
- Youth-led community initiative





CARYA 2020

18 participants from

- Hume
- Moreland
- Darebin
- Melbourne city
- Whittlesea
- Brimbank
- Whitehorse
- Vietnam

CARYA Post Codes

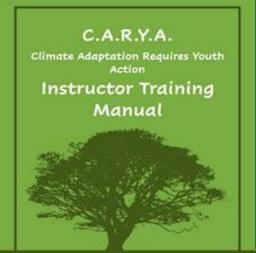
☐ City of Melbourne
☐ City of Whittlesea
☐ City of Brimbank
☐ City of Darebin
☐ City of Whitehorse

Participant's Post codes Mount 9 3031 Glenburn Macedon 9 3047 Riddells Creek 9 3048 easant Creek Gisborne 9 3046 9 3021 9 3053 9 3064 Dixons Creek 9 3059 9 3061 rra Glen 9 3049 Melton C754 9 3128 9 3048 9 3056 9 3750 9 3000 9 3073 9 3754 Hoppers Crossing 9 3058 Werribee Point Cook Melbourne Cities Greater Melbourne City of Hume City of Moreland

What is CARYA?

Training Topics:

- Biodiversity
- Gender equality & Climate justice
- Racism and First Nations
 Justice
- Agriculture & food security
- Energy
- Waste
- Adaptation
- Psychology of climate change,
- Climate as a health issue



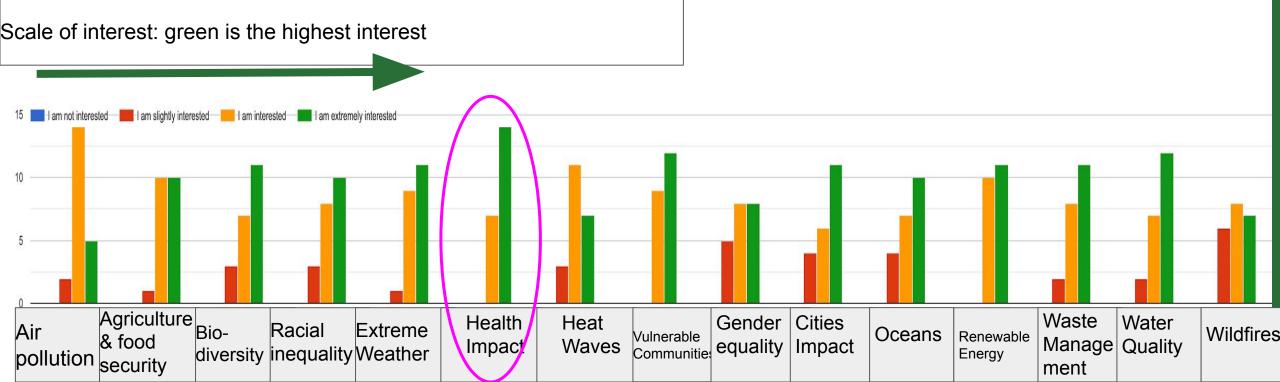
Training rich in educative experiences



CARYA Co-Design

- The project was initially designed with young people
- The participants interest in the topics in 2021 were:





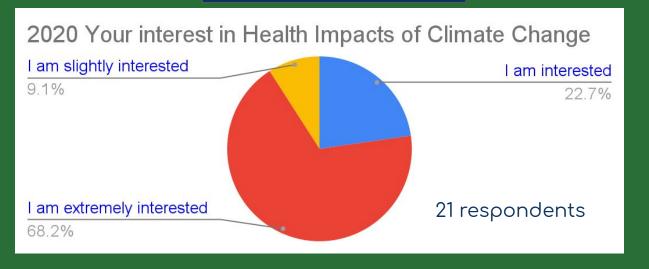
CARYA

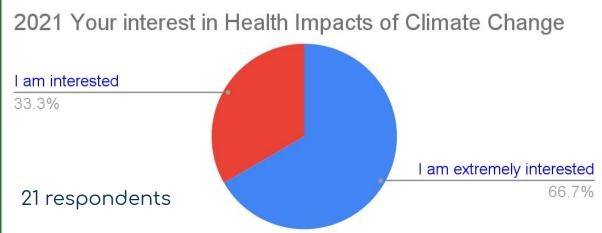
Participants Expression of Interest

Interest on health impacts of climate change

CARYA 2020

CARYA 2021





Climate Adaptation Requires Youth Action (CARYA) ONLINE



No action without engagement and good relationships

- We share time and experience
- Acknowledgment of Country & spiritual link
- Communal agreements
- Break out rooms to socialise
- Games

CARYA ONLINE

The candle feels like a sense of unity and tradition. I like doing it and it will make me remember the uniqueness of this program.

Most large fires start with a small spark or flame, but once lit can spread quickly. Let's hope this small flame of cherishing the environment can spread throughout our wide land.

Keeps us together with energy

symbol of the

represents our passion

represents the heat from global warming

its centres you, it sets an intention to be here, to be present

feels like peace to me but also at the same time focus and strength. When I light the candle I get into the headspace to learn about others WITH others!

gives a feeling of community

It represents a sense of community and unity, each of us are taking part of a unifying action that draws us in as a collective

helps me remember where I am in space and time, particularly the land that I live on.

> helps make me feel like we're having a shared experience

A sense of purpose.

a symbol of togetherness even when we can't be physically present with one another

keep us connected to our purpose

light inside us that

CARYA is igniting



Graduation

December 2020

Bush tucker walk: westmeadows With Aunty Jo





Nangak Tamboree la Trobe wildlife sanctuary







Microplastics with Conservation volunteers Australia



Learning Excursions: Bike ride & Zero waste cooking





Broadmeadows BGCS







Brunswick: JSS Eco-Justice Hub

Learning Excursions: Bike ride & Zero waste cooking



Learning Excursions: The plummery

Kat Lavers

https://www.katlavers.com/the-plummery/

Lockdown cancelled (4,5,6th)

We are still waiting to be run



CARYA Community Adaptation Initiatives

- Community
 garden/communal
 composting (part of BGCS
 revitalisation project)
- Education/community outreach - social media campaign
- Screening 2040 the movie







Banksia Gardens Heat haven



Banksia Gardens Heat Haven









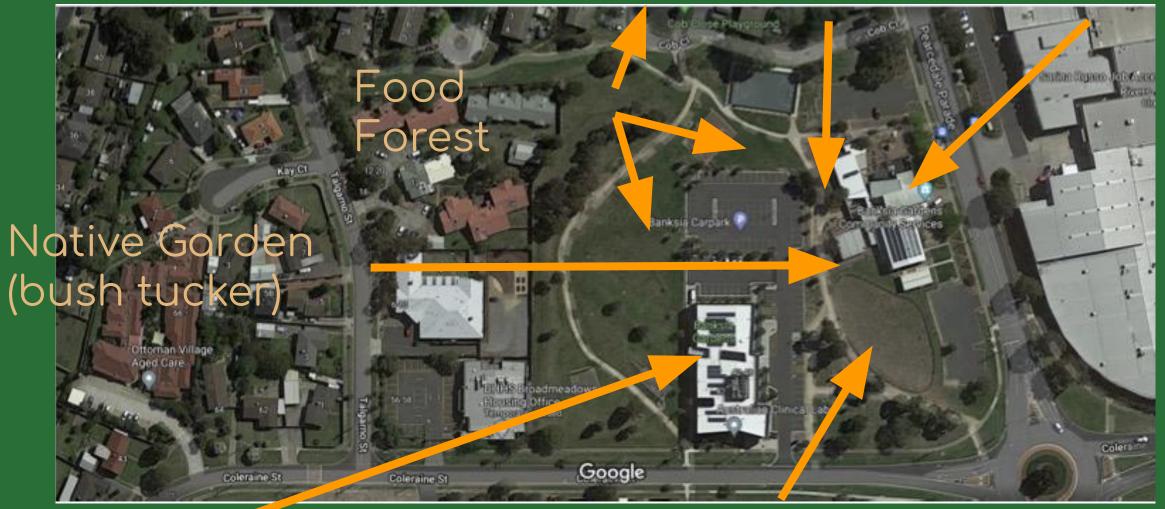






Banksia Gardens Heat haven

Community Heat relief Centre



DPV Health

Native Grassland Reserve

Banksia Gardens Revitalisation and Heat haven

Bicycle shed

Recreation and cultural square

Climate Hub







Break-out room discussion

- 1. What's the main challenge/barrier you're facing in addressing climate change and health?
- 2. What type of support do you need to embed climate change action in health promotion?
- 3. Share case examples / learnings from your work on climate and health to date.



News

 Expert panel discussion on climate change and mental health (6 Oct) Visit the *Climate and Health Alliance* website for the recording (pending) <u>www.caha.org.au/</u>

• Launch - Together We Can (5 Oct)

CAHA in partnership with *Together We Can Australia* https://togetherwecanmovement.org.au/ www.facebook.com/TogetherWeCanAus

www.instagram.com/TogetherWeCan.movement/

Community Sector Climate Change Advocacy
 Week (4-8 October)

ACOSS-led campaign

www.acoss.org.au/community-sector-climate-advocacy-week/#Community Sector Climate Declaration

 Seminar - Climate Change: Challenges and Opportunities for Health Promotion **AHPA Vic Branch**

Save the date: 25th Oct, 12.30pm - 2pm



