



HEAL 2023 Conference

Collective Action for Health, Environment and Climate

Conference Program (DRAFT)

HEAL 2023 Conference – Overview

Please click on a session to navigate the program

REGIONAL HUB SESSIONS

Tuesday 14 November

Please check regional dates and times

QUEENSLAND

Tuesday 14 November, 2023 (12:00 PM – 6:00 PM AEST)

NEW SOUTH WALES

Tuesday 14 November, 2023 (12:00 PM – 4:30 PM AEDT)

AUSTRALIAN CAPITAL TERRITORY

Tuesday 14 November, 2023 (9:00 AM – 1:30 PM AEDT)

VICTORIA

Tuesday 14 November, 2023 (9:00 AM – 12:00 PM AEDT)

TASMANIA

Friday 10 November, 2023 (12:00 PM – 2:30 PM AEDT)

SOUTH AUSTRALIA

Tuesday 14 November, 2023 (9:30 AM – 12:30 PM ACDT)

WESTERN AUSTRALIA

Tuesday 14 November, 2023 (12:00 PM – 4.30PM AWST)

NORTHERN TERRITORY

Tuesday 14 November, 2023 (10:00 AM – 12:00 PM ACST)

NATIONAL SESSIONS

Wednesday 15 November

9:00 AM – 2:30 PM AWST / 10:30 AM – 4:00 PM ACST / 11:30 AM – 5:00 PM ACDT / 11:00 AM – 4:30 PM AEST / 12:00 PM – 5.30 PM AEDT

WELCOME & OPENING SESSION

CO-DESIGNED PUBLIC POLICY & COMMUNITY PERSPECTIVES

LUNCH BREAK

CLIMATE, SUSTAINABILITY & HEALTH POLICY

TEA BREAK

THEMATIC BREAKOUT SESSIONS A

Indigenous Knowledge Systems	Planetary Health Equity	Data & Decision Support Systems
Urban Health & Built Environment	Biosecurity & Emerging Infections	Climate Change & Mental Wellbeing

E-POSTER SESSION A & TEA BREAK

HEAL INNOVATION FUND PROJECTS

NATIONAL SESSIONS

Thursday 16 November

9:00 AM – 2:30 PM AWST / 10:30 AM – 4:00 PM ACST / 11:30 AM – 5:00 PM ACDT / 11:00 AM – 4:30 PM AEST / 12:00 PM – 5.30 PM AEDT

WELCOME & OPENING SESSION

REGIONAL COMMUNITY OF PRACTICE UPDATES

LUNCH BREAK

THEMATIC BREAKOUT SESSIONS B

Health Systems Resilience	Bushfires / Rural & Remote Health	Food, Soil & Water Security
At-risk Populations	Science Communication	

E-POSTER SESSION B & TEA BREAK

FIRST NATIONS PERSPECTIVES

TEA BREAK

CONFERENCE AWARDS & CLOSING SESSION

Regional Hub Sessions – Tuesday 14 November 2023

QUEENSLAND

12:00 PM – 6:00 PM AEST

Location	Gibson Room (GP-Z1064), Garden's Point Campus, Queensland University of Technology QLD 4000
Delivery	Hybrid (Face-to-face & Online)
Conveners	Dr Aiden Price, Queensland University of Technology
Session Description	TBA

12:00 PM - 12:15 PM AEST	<u>Opening of HEAL 2023 Queensland Hub</u> Dr Aiden Price, Queensland University of Technology
12:00 PM - 12:05 PM AEST	Acknowledgement of Country
12:05 PM - 12:10 PM AEST	Welcome
12:10 PM - 12:15 PM AEST	Queensland Breakout Session Overview
12:15 PM - 1:30 PM AEST	<u>Changing Landscapes Session</u>
12:15 PM - 12:30 PM AEST	Climate Pressures
12:30 PM - 12:45 PM AEST	Flood Preparedness
12:45 PM - 1:00 PM AEST	Sustainable Development Goals
1:00 PM - 1:15 PM AEST	Urban Pressures
1:15 PM - 1:30 PM AEST	Open Discussion & Q&A
1:30 PM - 2:00 PM AEST	Coffee/Tea Break
2:00 PM - 3:15 PM AEST	<u>Environments and Lives</u>
2:00 PM - 2:15 PM AEST	Queensland's Post-COVID Recovery

<i>2:15 PM - 2:30 PM AEST</i>	Infectious Disease
<i>2:30 PM - 2:45 PM AEST</i>	Biosecurity Commons
<i>2:45 PM - 3:00 PM AEST</i>	One Health Framework
<i>3:00 PM - 3:15 PM AEST</i>	Open Discussion & Q&A
<i>3:15 PM - 3:45 PM AEST</i>	Coffee/Tea Break
<i>3:45 PM - 5:00 PM AEST</i>	<u>Taking Action in Queensland</u>
<i>3:45 PM - 4:00 PM AEST</i>	Indigenous Rights in Connection with Research & Policy Development
<i>4:00 PM - 4:15 PM AEST</i>	Collaboration Between Decision Makers & Researchers
<i>4:15 PM - 4:30 PM AEST</i>	Queensland Disaster Resilience Alliance
<i>4:30 PM - 4:45 PM AEST</i>	Long-term Resilience Planning
<i>4:45 PM - 5:00 PM AEST</i>	Open Discussion & Q&A
<i>5:00 PM - 6:00 PM AEST</i>	Breakout Close & Networking
<i>6:00 PM AEST</i>	QLD session end

Regional Hub Sessions – Tuesday 14 November 2023

NEW SOUTH WALES

12:00 PM – 4:30 PM AEDT

Location	ABS Seminar Room 2190 (H70.02.2190), Abercrombie Building H70, University of Sydney Business School, Darlington NSW 2006
Delivery	Hybrid (Face-to-face & Online)
Conveners	Associate Professor Geoff Morgan, University of Sydney Associate Professor Veronica Matthews, University of Sydney
Session Description	The session will start with an informal networking lunch, followed by presentations from several invited speakers including NSW state government colleagues (NSW Department of Environment and Planning, NSW Health and NSW Reconstruction Authority TBC) and researchers. A discussion session will follow on the NSW Hub - Roadmap for evidence needs, research priorities and work plans for 2024-2026. The session will finish at 4:30pm and participants are invited to informal networking drinks at a nearby hotel (Royal Hotel, Darlington) for those who can stay on.

12:00 PM - 1:00 PM AEDT	<u>Arrival & Lunch</u>
1:30 PM - 1:05 AM AEDT	<u>Welcome & Housekeeping</u> Assoc Prof Geoff Morgan & Assoc Prof Veronica Matthews, University of Sydney
1:05 PM - 2:45 PM AEDT	<u>Invited Talks</u>
1:05 PM - 2:30 PM AEDT	Presenter details to follow
2:30 PM - 2:45 PM AEDT	Q&A and Discussion
2:45 PM - 3:15 PM AEDT	Break
3:15 PM - 4:15 PM AEDT	<u>Panel Discussion / Group Discussion</u>
	NSW Hub - Roadmap for evidence needs, research priorities and work plans for 2024-2026
4:15 PM - 4:30 PM AEDT	<u>Summary & Next Steps</u>
4:30 PM AEDT	NSW session end

Regional Hub Sessions – Tuesday 14 November 2023

AUSTRALIAN CAPITAL TERRITORY

9:00 PM – 1:30 PM AEDT

Location	The Gallery, Level 2, Cultural Centre, Kambri, The Australian National University, ACT 2600
Delivery	Face-to-face
Conveners	Professor Sotiris Vardoulakis, HEAL Director, Australian National University Dr Stewart Sutherland, Australian National University Assistant Professor Ro McFarlane, University of Canberra Dr Peter Tait, Australian National University & Public Health Association of Australia (PHAA)
Session Description	This session will facilitate discussion of leading health, environmental and climate adaptation challenges that we face in the ACT, and across Australia. It will also enable researchers, policy makers and community actors to identify evidence gaps and shape solutions. The opening address will be followed by an open panel showcasing innovations in climate adaptation research, policy and practice. Focusing on adapting to the climate now and in the future of 2045, three breakout discussion groups will explore challenges and solutions: (1) Health service delivery and infrastructure; (2) Built environment and housing; and (3) Water and natural resources.

9:00 AM - 9:30 AM AEDT	<u>Arrival & Registration</u>
9:30 AM - 9:50 AM AEDT	<u>Welcome</u> Prof Sotiris Vardoulakis, Australian National University
	Acknowledgement of Country Agenda & Expectations
	ACT Community of Practice Update Prof Sotiris Vardoulakis, Australian National University
9:50 AM - 10:00 AM AEDT	<u>Opening Address</u> Rachel Stephen-Smith, ACT Minister for Health
10:00 AM - 11:00 AM AEDT	<u>Adaptation to Climate Change Keynote & Panel Discussion</u>
	Prof Quentin Grafton, Australian National University Perry Wiles, Environment, Planning and Sustainable Development Directorate Prof Jacki Schirmer, University of Canberra

<p>11:00 AM - 12:00 PM AEDT</p>	<p><u>Adapting in the ACT for the Climate of 2045 Breakout Groups</u></p>
	<p>Group 1 lead by Dr Peter Tait, Australian National University & PHAA Health Service Infrastructure and Delivery</p> <p>Group 2 lead by Prof Sotiris Vardoulakis Built Environment and Housing</p> <p>Group 3 lead by Asst Prof Ro McFarlane, University of Canberra Water and Natural Resources</p>
<p>12:00 PM - 12:30 PM AEDT</p>	<p><u>Reporting of Breakout Group Discussions</u></p>
<p>12:30 PM - 12:40 PM AEDT</p>	<p><u>Conclusions & Next Steps</u></p>
<p>12:40 PM - 1:30 PM AEDT</p>	<p>Lunch & Networking</p>
<p>5:30 PM AEDT</p>	<p>ACT session end</p>

Regional Hub Sessions – Tuesday 14 November 2023

VICTORIA

9:00 AM – 12:00 PM AEDT

Location	Conference Centre, The State Library Victoria, 328 Swanston Street, Melbourne, VIC 3000
Delivery	Face-to-face
Conveners	Professor Rebecca Bentley, University of Melbourne
Session Description	A multi-disaster lens on climate-related disaster recovery: Speakers will discuss latest developments in their long-term (and award winning) research on climate related disaster recovery (with a focus on Victoria). They will cover Guidance for disaster recovery over the long term; Multi-disaster exposures; and Community-based tools. This will be followed by an interactive panel session and discussion with key stakeholders.

9:00 AM - 9:30 AM AEDT	<u>Welcome</u> Prof Rebecca Bentley, University of Melbourne
9:30 AM - 10:30 AM AEDT	<u>Multi-disaster Exposure Evidence and Implications for Communities, Schools, and Service Providers</u>
	<p>Invited Talks</p> <p>Dr Claire Leppold, University of Melbourne <i>Multi-disaster exposure evidence about public health impacts</i></p> <p>Dr Colin Gallagher, University of Melbourne <i>Considerations for Communities</i></p> <p>Dr Katitza Marinkovic Chavez, University of Melbourne <i>Considerations for children and young people</i></p> <p>Prof Lisa Gibbs, University of Melbourne <i>Considerations for service providers</i></p>
10:30 AM - 10:45 PM AEDT	Morning Tea
10:45 AM - 12:00 PM AEDT	<u>Networking Session</u> Prof Rebecca Bentley, University of Melbourne
12:00 PM AEDT	VIC session end

Regional Hub Sessions – Friday 10 November 2023

TASMANIA

12:00 PM – 2:30 PM AEDT

Location	Mt Nelson Signal Station, 700 Nelson Rd, Mt Nelson TAS 7007
Delivery	Face-to-face
Conveners	Professor Fay Johnston, University of Tasmania Professor David Bowman, University of Tasmania
Session Description	A networking opportunity to meet fellow colleagues working in the broad environmental health sector. Main discussion will focus on planning for a catastrophic bushfire day: What does this look like and how do I do it? Hear from fire experts – and have an informed discussion about how this looks for you. Lunch will be provided.

<i>12:00 PM - 12:10 PM AEDT</i>	<u>Welcome</u> Prof Fay Johnston & Prof David Bowman, University of Tasmania
<i>12:10 PM - 2:00 PM AEDT</i>	<u>Invited Talks & Panel</u> Prof David Bowman, University of Tasmania TAS Fire Service Representative
<i>2:00 PM - 2:30 PM AEDT</i>	Lunch Break & Networking
<i>2:30 PM AEDT</i>	TAS session end

Regional Hub Sessions – Tuesday 14 November 2023

SOUTH AUSTRALIA

9:30 AM – 12:30 PM ACDT

Location	Bradley Building, University of South Australia City West Campus, North Terrace, Adelaide SA 5000
Delivery	Face-to-face
Conveners	Professor Craig Williams, University of South Australia Associate Professor Carmel Williams, South Australian Health and Medical Research Institute (SAHMRI) & University of Adelaide
Session Description	Early and Mid-career researcher showcase and networking lunch: This will feature presentations from some of our wonderful Early- and Mid-Career researchers tackling human health challenges in the face of on-going environmental and climatic change. This will be followed by an informal networking lunch, giving an opportunity for less experienced researchers to converse with more experienced people working both inside and outside of academia. Please note that catering for this event is limited to 30 people.

<i>9:30 AM - 9:35 AM ACDT</i>	Welcome to the NHMRC HEAL Network Prof Craig Williams, University of South Australia
<i>9:35 AM - 9:45 AM ACDT</i>	<u>Report on the HEAL-Dynamic State Urban Green Spaces and Human Health Workshop</u>
<i>9:45 AM - 10:30 AM ACDT</i>	<u>Early and Mid-Career Researcher presentations</u>
	Invited Talks
<i>10:30 AM - 11:00 PM ACDT</i>	Morning Tea
<i>11:00 AM - 12:00 PM ACDT</i>	<u>Early and Mid-Career Researcher presentations</u>
	Invited Talks
<i>12:30 PM - 12:30 PM ACDT</i>	Informal Networking Lunch
<i>12:30 PM ACDT</i>	SA session end

Regional Hub Sessions – Tuesday 14 November 2023

WESTERN AUSTRALIA
12:00 PM – 4:30PM AWST

Location	Venue TBC, Perth WA 6000
Delivery	Hybrid (Face-to-face & Online)
Conveners	Associate Professor Brad Farrant, Telethon Kids Institute
Session Description	The purpose of the WA Regional Session is to Bring policy makers, service providers, and researchers together with Elders, Aboriginal community members, and other diverse community members; Provide an update on the work that the HEAL WA team have done co-designing foundational principles and processes (including: HEAL WA Principles, Aims and Workstreams; HEAL WA Aboriginal Steering Group Engagement Process; HEAL WA Communities of Practice Principles and Processes; and The planning and implementation of the HEAL WA Communities of Practice); and To support co-design and research translation. This is an opportunity to experience co-design in practice and to identify opportunities to connect with the HEAL Network. In addition to updates on the HEAL network, the afternoon will include time for networking, group reflections, and a light lunch will also be provided.

<i>12:00 PM - 12:10 PM AWST</i>	<u>Welcome</u> Assoc Prof Brad Farrant, Telethon Kids Institute
<i>12:10 PM - 2:00 PM AWST</i>	<u>Updates on the HEAL WA Team</u>
	Discussion
<i>2:00 PM - 2:30 PM AWST</i>	Lunch Break
<i>2:30 PM - 4:30 PM AWST</i>	<u>Co-design and Research Translation</u>
<i>4:30 PM AWST</i>	WA session end

Regional Hub Sessions – Tuesday 14 November 2023

NORTHERN TERRITORY
10:00 AM – 12:00 PM ACST

Location	Online
Delivery	Online; <i>Link:</i> https://charlesdarwinuni.zoom.us/j/82747697448?pwd=N2tramY5SSStGcit aZHU3ZXlnWUZ4Zz09 <i>Password:</i> 2023
Conveners	Professor Alan Cass, Menzies School of Health Research Associate Professor Linda Payi Ford, Charles Darwin University Professor John Wakerman, Menzies School of Health Research Dr Supriya Mathew, Menzies School of Health Research Dr Manoj Bhatta, Menzies School of Health Research
Session Description	To update work progress on research priorities and engage with stakeholders on key environmental health issues affecting the NT population. Please use https://padlet.com/supriyamathew/HEAL_NT_CoP_2023 to add your comments during the session

10:00 AM - 10:15 AM ACST	<u>Acknowledgement of Country & Welcome</u>
10:15 AM - 2:45 PM AEDT	<u>Invited Talks</u>
10:15 AM - 10:30 AM ACST	Dr Chati Tasantab, NT Health <i>Heatwave management in the Northern Territory</i>
10:30 AM - 10:45 AM ACST	Michael Klerck, Tangentyere Council <i>Closing the knowledge gap on energy insecurity</i>
10:45 AM - 11:00 AM ACST	Emma Delahunty, Central Australian aboriginal Congress <i>Congress' Climate justice advocacy journey</i>
11:00 AM - 11:15 AM ACST	Dr Mark Dsouza, NT Health <i>Healthy patients, workforce and environment: 12 month review of climate adaptation and wellbeing outcomes for the RDH Campus Greening Project</i>
11:15 AM - 12:00 PM ACST	<u>Panel Discussion & Reporting Back to Regional CoP Session</u>
12:00 PM ACST	NT session end

National Sessions –

Wednesday 15 November 2023

<i>12:00 PM - 12:35 PM</i> <i>AEDT</i>	<u>Welcome & Opening Session</u> Assoc Prof Veronica Matthews, University of Sydney and Conference Co-Chair
<i>12:00 PM - 12:10 PM</i> <i>AEDT</i>	Acknowledgment of Country Assoc Prof Veronica Matthews, University Centre for Rural Health, University of Sydney
<i>12:10 PM - 12:20 PM</i> <i>AEDT</i>	Opening Address
<i>12:20 PM - 12:35 PM</i> <i>AEDT</i>	HEAL Director Overview Prof Sotiris Vardoulakis, Director of the HEAL Network, Australian National University
<i>12:35 PM - 1:45 PM</i> <i>AEDT</i>	<u>Co-designed Public Policy & Community Perspectives Plenary</u> Prof Sotiris Vardoulakis, Director of the HEAL Network and Conference Co-Chair
<i>12:35 PM - 1:15 PM</i> <i>AEDT</i>	Invited Talks Prof Nicola Spurrier, Chief Public Health Officer for South Australia Prof Lucie Rychetnik, Co-Director of The Australian Prevention Partnership Centre & University of Sydney Dr Sonia Roschnik, Executive Director at Geneva Sustainability Centre
<i>1:15 PM - 1:45 PM</i> <i>AEDT</i>	Panel Discussion moderated by Prof Emer Carmen Lawrence, University of Western Australia Prof Nicola Spurrier, Chief Public Health Officer for South Australia Prof Lucie Rychetnik, Co-Director of The Australian Prevention Partnership Centre & University of Sydney
<i>1:45 PM - 2:15 PM</i> <i>AEDT</i>	Day 2 Lunch Break

<p>2:15 PM - 3:05 PM <i>AEDT</i></p>	<p align="center"><u>Climate, Sustainability, and Health Policy Plenary</u> Dr Aditya Vyas, WHO Collaborating Centre for Climate Change and Health Impact Assessment Deputy Director</p>					
<p>2:15 PM - 2:40 PM <i>AEDT</i></p>	<p align="center">Invited Talks Billy Quinn (Director National Climate Risk Assessment, DCCEEW) Dr Kate Wyllie, Doctors for the Environment Australia Chelsea Hunnisett, Climate and Health Alliance</p>					
<p>2:40 PM - 3:05 PM <i>AEDT</i></p>	<p align="center">Panel Discussion moderated by Dr Aditya Vyas, WHO Collaborating Centre for Climate Change and Health Impact Assessment Deputy Director Billy Quinn (Director National Climate Risk Assessment, DCCEEW) Dr Kate Wyllie, Doctors for the Environment Australia Chelsea Hunnisett, Climate and Health Alliance</p>					
<p>3:05 PM - 3:15 PM <i>AEDT</i></p>	<p align="center">Day 2 Break</p>					
<p>3:15 PM - 4:45 PM <i>AEDT</i></p>	<p align="center"><u>Concurrent Thematic Breakout Sessions A</u></p>					
	<p align="center">Indigenous Knowledge Systems Assoc Prof Veronica Matthews, University Centre for Rural Health, University of Sydney</p>	<p align="center">Planetary Health Equity Dr Megan Arthur, The Australian National University</p>	<p align="center">Data & Decision Support Systems Dr Ivan Hanigan, Curtin University & Prof Kerrie Mengersen, Queensland University of Technology</p>	<p align="center">Urban Health & Built Environment Prof Xiaoqi Feng, University of New South Wales & Prof Rebecca Bentley, University of Melbourne</p>	<p align="center">Biosecurity & Emerging Infections Prof Wenbiao Hu, Queensland University of Technology & Prof Colleen Lau, University of Queensland</p>	<p align="center">Climate Change & Mental Wellbeing Assoc Prof Fiona Charlson, University Queensland & Dr Rebecca Patrick, Deakin University</p>
<p>4:45 PM - 5:05 PM <i>AEDT</i></p>	<p align="center"><u>Break & Thematic e-Poster Session A</u> Projects related to Indigenous Knowledge; Planetary Health; Data Decision Support Systems; Urban Health; Biosecurity; and Climate & Mental Wellbeing</p>					

5:05 PM - 5:30 PM
AEDT

HEAL Innovation Fund Projects Plenary

Prof Bin Jalaludin, University of New South Wales & South Western Sydney Local Health District

Successful Applications

Gerard Duck, NSW Ministry of Health

The impact of bushfires and other extreme weather events on long term NSW public hospital service and capacity planning

Dr Nigel Goodman, Australian National University

Can portable air cleaners reduce exposure to volatile emissions from wood heater smoke?

Assoc Prof Patricia Lee, Griffith University

Paving the way towards building resilience: Co-designing an integrative climate-resilient and health-promoting aged care community

Dr Penelope Jones, Menzies Institute of Medical Research, University of Tasmania

Let's talk about smoke: Co-designing effective behaviour change solutions to the winter wood smoke challenge

Assoc Prof Fiona Charlson, University of Queensland

Using Systems mOdelling fOR menTal Health (SOOTHE) to identify more efficient and effective support measures for communities impacted by climate change-driven extreme weather events

Dr Manoj Bhatta, Menzies School of Health Research

Decarbonizing the remote primary health care sector: A pilot study in Central Australia

Dr Kayla Smurthwaite, Australian National University

Community perceptions and experiences of residential wood heater use in the Australian Capital Territory (ACT)

Dr Luise Kazda, Australian National University

Respiratory inhalers – Sustainably reducing the footprint of a health system carbon hotspot

5:30 PM AEDT

END OF DAY 2

Concurrent Thematic Breakout Sessions – Wednesday 15 November 2023

ABORIGINAL & TORRES STRAIT ISLANDER HEALTH & KNOWLEDGE
TRANSLATION FOR BUILDING RESILIENCE TO ENVIRONMENTAL CHANGE
3:15 PM – 4:45 PM AEDT

Delivery	Online
Conveners	Associate Professor Veronica Matthews, University Centre for Rural Health, University of Sydney
Session Description	This session reflects on the importance and application of First Nations knowledges to care for Country and community.

3:15 PM - 3:20 PM AEDT	<u>Welcome</u> Assoc Prof Veronica Matthews, University Centre for Rural Health, University of Sydney
3:20 PM - 4:20 PM AEDT	<u>Invited Talks</u>
3:20 PM - 3:35 PM AEDT	Amie Furlong, University of Canberra <i>How do we keep Aboriginal and Torres Strait Islander Elders safe during a crisis? Lessons learnt from the COVID-19 pandemic.</i>
3:35 PM - 3:50 PM AEDT	Dr Nina Lansbury, University of Queensland <i>Strengthening Aboriginal and Torres Strait Islander Peoples' voices and engagement in the Intergovernmental Panel on Climate Change</i>
3:50 PM - 4:05 PM AEDT	Dr Petra Buergelt Wunḡmurra, University of Canberra <i>Waka Njurrkanhayngu - Regenerating the existence of life: Pathways for reviving and strengthening Indigenous ways of being-knowing-doing to heal the source of 'Natural' and social disasters</i>
4:05 PM - 4:20 PM AEDT	Kris Vine, University of Sydney & Wilya Janta (Standing Strong) Housing Collaboration <i>Healing Country through community driven climate change adaptations - A Warumungu evaluation approach</i>
4:20 PM - 4:45 PM AEDT	<u>Panel Discussion</u> Assoc Prof Veronica Matthews, University Centre for Rural Health, University of Sydney
4:45 PM AEDT	Session end

Concurrent Thematic Breakout Sessions – Wednesday 15 November 2023

PLANETARY HEALTH EQUITY

3:15 PM – 4:45 PM AEDT

Delivery	Online
Conveners	Dr Megan Arthur, Planetary Health Equity Hothouse, School of Regulation and Global Governance, The Australian National University
Session Description	Planetary health equity – the equitable enjoyment of good health and a sustainable ecosystem – is in crisis. Addressing this demands ambitious and urgent action on the structural drivers of social inequity and climate change. These drivers come in the potent form of global consumptogenic systems. Yet, despite the unfolding catastrophe, little effective political and policy attention is given to transform the consumptogenic system and act in the interests of PHE. Arguably, nothing will change unless entrenched power inequities are addressed. Drawing on emerging work from the ARC Laureate Fellowship Planetary Health Equity Hothouse (PHEH) and specific case studies, this interdisciplinary panel will present new evidence for understanding and mitigating the global consumptogenic system in the 21st century.

3:15 PM - 3:20 PM AEDT	<u>Introduction</u>
	Dr Megan Arthur, Planetary Health Equity Hothouse, The Australian National University
3:20 PM - 4:20 PM AEDT	<u>Invited Talks</u>
3:20 PM - 3:35 PM AEDT	Dr Megan Arthur, PHEH, The Australian National University <i>Coherent climate change mitigation policy for health and social equity co-benefits: A review and classification</i>
3:35 PM - 3:50 PM AEDT	Dr Nicholas Frank, PHEH, The Australian National University <i>Shaping planetary health inequities: The political economy of the Australian growth model</i>
3:50 PM - 4:05 PM AEDT	Giorgia Dalla Libera Marchioni, PHEH, The Australian National University <i>Overmedication: The antibiotics system</i>
4:05 PM - 4:20 PM AEDT	Dr Tuan Nguyen, Alive and Thrive East Asia Pacific <i>Evaluating the environmental impact of commercial milk formula and the role of breastfeeding as a carbon offset: Introducing the Green Feeding Tool</i>
4:20 PM - 4:45 PM AEDT	<u>Discussion & Q&A</u>
	Dr Megan Arthur, Planetary Health Equity Hothouse, The Australian National University
4:45 PM AEDT	Session end

Concurrent Thematic Breakout Sessions – Wednesday 15 November 2023

DATA & DECISION SUPPORT SYSTEMS FOR ENVIRONMENTAL HEALTH APPLICATIONS

3:15 PM – 4:45 PM AEDT

Delivery	Online
Conveners	Dr Ivan Hanigan, Curtin University Professor Kerrie Mengersen, Queensland University of Technology
Session Description	We report on the needs assessment for Data & Decision Support Systems (DDSS) at HEAL. DDSS aims to create a Findable, Accessible, Interoperable, and Reusable (FAIR) catalogue of health, population, climate, and environmental datasets, along with analytic tools. The needs assessment is the first stage of evaluations the current state of these aspects in the HEAL community.

3:15 PM - 3:20 PM AEST	<u>Opening Remarks</u> DDSS Panel
3:20 PM - 3:50 PM AEDT	<u>Introduction to the DDSS Theme</u>
3:20 PM - 3:30 PM AEDT	Report on the HEAL DDSS Ambition and Plan for Needs Assessment Dr Ivan Hanigan, Curtin University & Prof Kerrie Mengersen, Queensland University of Technology
3:30 PM - 3:35 PM AEDT	Overview of CARDAT Including Data and Tools Audit & Ongoing Aims Dr Ivan Hanigan & Lucas Hertzog, Curtin University
3:35 PM - 3:40 PM AEDT	Overview of AusEnHealth Including Indicators Audit & Ongoing Aims Dr Aiden Price, Queensland University of Technology
3:40 PM - 3:50 PM AEDT	Q&A
3:50 PM - 4:00 PM AEDT	Break & e-Poster
4:00 PM - 4:45 PM AEDT	<u>Invited Talks</u>
4:00 PM - 4:10 PM AEDT	Georgie Amoyal, AIHW <i>Methodology for scoping and developing climate change and environmental health indicators</i>
4:10 PM - 4:20 PM AEDT	Dr Nicolas Borchers Arriagada, University of Tasmania <i>Predicting daily PM2.5 concentrations across Australia using a random forest model</i>
4:20 PM - 4:30 PM AEDT	Filip Juricev-Martincev, Queensland University of Technology <i>Service accessibility impact mapping for disaster resilience in Queensland, Australia</i>

<i>4:30 PM - 4:40 PM</i> <i>AEDT</i>	Q&A
<i>4:40 PM - 4:45 PM</i> <i>AEDT</i>	<u>Closing Remarks</u>
<i>4:45 PM AEDT</i>	Session end

Concurrent Thematic Breakout Sessions – Wednesday 15 November 2023

URBAN HEALTH, BUILT ENVIRONMENT & NATURE BASED SOLUTIONS

3:15 PM – 4:45 PM AEDT

Delivery	Online
Conveners	Professor Xiaoqi Feng, University of New South Wales Professor Rebecca Bentley, University of Melbourne
Session Description	TBA

3:15 PM - 3:18 PM AEDT	<u>Opening Remarks</u> Prof Xiaoqi Feng, University of New South Wales & Prof Rebecca Bentley, University of Melbourne
3:18 PM - 4:28 PM AEDT	<u>Invited Talks</u>
3:18 PM - 3:28 PM AEDT	Jierui Dong, RMIT University <i>A review of artificial neural networks in predictive models for indoor air quality in schools</i>
3:28 PM - 3:38 PM AEDT	Daisy (Lanxi) Li, Queensland University of Technology <i>Applying different machine learning and spectral indexes in satellite imagery for flood mapping</i>
3:38 PM - 3:48 PM AEDT	Dr Shamila Haddad, University of New South Wales <i>Housing quality and self-reported health in Australian social housing</i>
3:48 PM - 4:08 PM AEDT	Dr Emily Flies, University of Tasmania <i>Human-nature connection and its benefits in Australia: A national survey</i>
4:08 PM - 4:18 PM AEDT	Jialing Xie, University of Sydney <i>Social practice theory in the built environment: Examining the value of this framework for understanding the social interactions of older adults' in transit-oriented urban environments</i>
4:18 PM - 4:28 PM AEDT	Yunjin Wang, Griffith University <i>Towards health urban childhood: Building a future-focused design framework for urban green space in high-density metropolitan areas in the post-pandemic era</i>
4:28 PM - 4:43 PM AEDT	<u>Panel Discussion</u>
4:43 PM - 4:45 PM AEDT	<u>Conclusions</u> Prof Xiaoqi Feng, University of New South Wales & Prof Rebecca Bentley, University of Melbourne
4:45 PM AEDT	Session end

Concurrent Thematic Breakout Sessions – Wednesday 15 November 2023

BIOSECURITY, COVID-19 & EMERGING INFECTIONS IN THE CONTEXT OF ENVIRONMENTAL CHANGE

3:15 PM – 4:45 PM AEDT

Delivery	Online
Conveners	Professor Wenbiao Hu, Queensland University of Technology Professor Colleen Lau, The University of Queensland
Session Description	This session will provide an overview of different novel epidemiological methods used to investigate emerging infectious diseases and how they can improve preparedness in Australia and the region. Presentations will include suitability mapping, spatial Bayesian networks, spatial and network analysis and climate-driven early warning systems.

3:15 PM - 3:20 PM AEDT	<u>Opening Remarks</u> Prof Wenbiao Hu, Queensland University of Technology & Prof Colleen Lau, University of Queensland
3:20 PM - 3:40 PM AEDT	<u>National Modelling in Support of Emergency Animal Disease Preparedness Keynote</u> Dr Richard Bradhurst, Centre of Excellence for Biosecurity Risk Analysis (CEBRA), University of Melbourne
3:40 PM - 4:30 PM AEDT	<u>Invited Talks</u>
3:40 PM - 3:50 PM AEDT	Assoc Prof Benn Sartorius, Centre for Clinical Research, University of Queensland <i>Modelling and mapping areas suitable for Japanese Encephalitis virus transmission in Australia</i>
3:50 PM - 4:00 PM AEDT	Dr Helen Mayfield, Centre for Clinical Research/School of Earth and Environmental Science, University of Queensland <i>Predictive risk mapping using spatial Bayesian networks: A case study of leptospirosis in Fiji</i>
4:00 PM - 4:10 PM AEDT	Dr Tatiana Proboste, School of Veterinary Science, University of Queensland <i>Integration of spatial and network analysis to undercover community exposure to zoonotic vector-borne diseases</i>
4:10 PM - 4:20 PM AEDT	Dr Shovanur Haque, School of Public Health & Social Work, Queensland University of Technology <i>Developing functional climate-driven early warning systems for climate-sensitive infectious disease: Statistical model selection and recommendations</i>
4:20 PM - 4:30 PM AEDT	Méryl Delrieu & Dr Myrielle Dupont-Rouzeyrol, Institut Pasteur New Caledonia <i>Temperature and Impact on transmission of Arboviruses by Aedes spp: A review of the literature</i>
4:30 PM - 4:45 PM AEDT	<u>Panel Discussion</u>

4:45 PM AEDT

Session end

Concurrent Thematic Breakout Sessions – Wednesday 15 November 2023

CLIMATE CHANGE & MENTAL WELLBEING

3:15 PM – 4:45 PM AEDT

Delivery	Online
Conveners	Associate Professor Fiona Charlson, University Queensland Dr Rebecca Patrick, University of Melbourne
Session Description	TBA

3:15 PM - 3:20 PM AEDT	<u>Opening Remarks</u> Assoc Prof Fiona Charlson, University Queensland & Dr Rebecca Patrick, Deakin University
3:20 PM - 4:20 PM AEDT	<u>Invited Talks</u>
3:20 PM - 3:30 PM AEDT	Assoc Prof Fiona Charlson, University Queensland <i>Building mental health and climate change research networks across Oceania</i>
3:30 PM - 3:40 PM AEDT	Dr Jo Longman, University of Sydney <i>Peritraumatic experiences and PTSD in the Northern Rivers floods</i>
3:40 PM - 3:50 PM AEDT	Dr Ali Chauvenet, School of Environment and Science, Griffith University <i>Duration and economic value of a walking-in-nature therapy program</i>
3:50 PM - 4:00 PM AEDT	Dr Zoe Leviston, Australian National University <i>Pathways from collective environmental action to wellbeing</i>
4:00 PM - 4:10 PM AEDT	Susan Schlinker, Queensland University of Technology <i>Sustainability with yoga</i>
4:10 PM - 4:20 PM AEDT	Hasini Gunasiri, Deakin University <i>The impact of climate change on young people's mental health</i>
4:20 PM - 4:45 PM AEDT	<u>Q&A</u>
4:45 PM AEDT	Session end

National Sessions – Thursday 16 November 2023

<p><i>12:00 PM - 12:20 PM</i> <i>AEDT</i></p>	<p style="text-align: center;"><u>Welcome & Opening Session</u> Prof Sotiris Vardoulakis, Director of the HEAL Network and Conference Co-Chair</p>
<p><i>12:00 PM - 12:10 PM</i> <i>AEDT</i></p>	<p style="text-align: center;">Acknowledgment of Country Assoc Prof Linda Payi Ford, Charles Darwin University & Chloe Ngelebe Ford</p>
<p><i>12:10 PM - 12:20 PM</i> <i>AEDT</i></p>	<p style="text-align: center;">Opening Address</p>
<p><i>12:20 PM - 1:15 PM</i> <i>AEDT</i></p>	<p style="text-align: center;"><u>Regional Community of Practice Updates Plenary</u> Assoc Prof Brad Farrant, Telethon Kids Institute</p>
<p><i>12:20 PM - 1:10 PM</i> <i>AEDT</i></p>	<p style="text-align: center;">States & Territories Report Representatives from QLD, NSW, ACT, VIC, TAS, SA, WA, and NT</p>
<p><i>1:10 PM - 1:15 PM</i> <i>AEDT</i></p>	<p style="text-align: center;">Concluding Remarks</p>
<p><i>1:15 PM - 2:00 PM</i> <i>AEDT</i></p>	<p style="text-align: center;">Day 3 Lunch Break</p>
<p><i>2:00 PM - 3:30 PM</i> <i>AEDT</i></p>	<p style="text-align: center;"><u>Concurrent Thematic Breakout Sessions B</u></p>

	Health Systems Resilience & Sustainability Prof Alex Barratt, University of Sydney & Assoc Prof Rebecca Haddock, Australian Healthcare and Hospitals Association	Bushfires, Air Pollution & Extreme Weather Events / Rural & Remote Health Prof Fay Johnston University of Tasmania; Assoc Prof Geoff Morgan & Prof Ross Bailie, University of Sydney; & Dr Supriya Mathew, Menzies School of Health Research	Food, Soil & Water Security Assoc Prof Thava Palanisami & Dr Geetika Bhagwat, University of Newcastle	At-risk Populations & Life Course Solutions Assoc Prof Caitlin Wyrwoll & Dr Aster Gebremedhin, University of Western Australia	Science Communication & Risk Perception Prof Iain Walker, University of Melbourne
3:30 PM - 3:50 PM AEDT	<u>Break & Thematic e-Poster Session B</u> Projects related to Health Systems Resilience; Bushfires & Extreme Weather Events; Rural & Remote Health; Food, Soil & Water Security; At-risk Populations; and Science Communication				
3:50 PM - 5:00 PM AEDT	<u>First Nations Perspectives</u> Prof Sandra Creamer, University of Queensland				
3:50 PM - 4:30 PM AEDT	<u>Invited Talks</u> Assoc Prof Rhys Jones, University of Auckland Francis Nona, Queensland University of Technology				
4:30 PM - 5:00 PM AEDT	<u>Panel Discussion</u>				
5:00 PM - 5:10 PM AEDT	Day 3 Break				
5:10 PM - 5:30 PM AEDT	<u>Conference Closing Session</u> Jaithri Ananthapavan, Deakin University				
5:10 PM - 5:20 PM AEDT	<u>Conference Awards</u> Jaithri Ananthapavan, Deakin University				

5:20 PM - 5:30 PM
AEDT

Conference Closing

Prof Sotiris Vardoulakis, Australian National University & Assoc Prof Veronica Matthews, University of Sydney

5:30 PM AEDT

END OF DAY 3

Concurrent Thematic Breakout Sessions – Thursday 16 November 2023

HEALTH SYSTEM RESILIENCE TO CLIMATE CHANGE & SUSTAINABILITY
2:00 PM – 3:30 PM AEDT

Delivery Online
Conveners Professor Alex Barratt, University of Sydney
 Associate Professor Rebecca Haddock, Australian Healthcare and Hospitals Association
Session Description TBA

2:00 PM - 2:03 PM AEDT	<u>Welcome and Housekeeping</u> Prof Alex Barratt, University of Sydney & Assoc Prof Rebecca Haddock, Australian Healthcare and Hospitals Association
2:03 PM - 4:13 PM AEDT	<u>Invited Talks</u>
2:03 PM - 2:11 PM AEDT	Dr Luise Kazda, Australian National University & University of Sydney <i>Respiratory inhalers – A health system carbon hotspot</i>
2:11 PM - 2:19 PM AEDT	Urvi Thanekar, Deakin University <i>Healthcare stakeholders’ perceptions regarding leveraging opportunities in renewably powered health services to reduce scope 3 emissions</i>
2:19 PM - 2:27 PM AEDT	Dr Kristen Pickles, University of Sydney <i>Academic partner for Net Zero Leads program</i>
2:27 PM - 2:35 PM AEDT	Hannah Mason, James Cook University <i>Turning up the heat on health system demand in Queensland: Heatwave impacts from 2010-19</i>
2:35 PM - 2:43 PM AEDT	Dr Scott McAlister, University of Melbourne & University of Sydney <i>The carbon footprint of surgery</i>
2:43 PM - 2:58 PM AEDT	Q&A
2:58 PM - 3:28 PM AEDT	<u>Health System Resilience And Sustainability-related Activities from Attendees</u>
3:28 PM - 3:30 PM AEDT	<u>Closing Remarks</u> Prof Alex Barratt, University of Sydney & Assoc Prof Rebecca Haddock, Australian Healthcare and Hospitals Association
3:30 PM AEDT	Session end

Concurrent Thematic Breakout Sessions – Thursday 16 November 2023

BUSHFIRES, AIR POLLUTION, HEATWAVES & OTHER EXTREME EVENTS, AND THEIR IMPACT ON PHYSICAL, MENTAL, AND COMMUNITY HEALTH / RURAL & REMOTE HEALTH AND CLIMATE-RELATED DISASTERS
2:00 PM – 3:30 PM AEDT

Delivery	Online
Conveners	Associate Professor Geoff Morgan, University of Sydney Professor Fay Johnston, University of Tasmania Professor Ross Bailie, University of Sydney Dr Supriya Mathew, Menzies School of Health Research
Session Description	Extreme Summers – Managing Health: This session will present international perspectives on the health impacts of extreme events and showcase the latest research on extreme events and health, with an emphasis on rural and remote communities.

2:00 PM - 2:02 PM AEDT	<u>Introduction & Welcome</u>
2:02 PM - 2:32 PM AEDT	<u>Invited Presentation</u>
2:02 PM - 2:22 PM AEDT	Dr Sarah Henderson, British Columbia Centre for Disease Control National Collaborating Centre for Environmental Health, University of British Columbia
2:22 PM - 2:32 PM AEDT	Q&A
2:32 PM - 3:17 PM AEDT	<u>Invited Talks</u>
2:32 PM - 2:38 PM AEDT	Dr Lucas Hertzog, Curtin School of Population Health & WHO Collaborating Centre for Climate Change and Health Impact Assessment <i>Exposure to exceptional PM_{2.5} air pollution events increases mortality risk in Australian cities: A health impact assessment</i>
2:38 PM - 2:44 PM AEDT	Dr Carina Anderson, University Of Southern Queensland <i>Building community resilience: Understanding the experiences of evacuation centre users in the 2019 Noosa bushfires</i>
2:44 PM - 2:50 PM AEDT	Dr Michael Tong, Australian National University <i>Heat-attributable hospitalisation costs in Sydney: Current estimations and future projections in the context of climate change</i>
2:50 PM - 2:56 PM AEDT	Alice Cronin, Victoria University <i>Extreme weather events: Knowledges and practices in culturally diverse communities in Melbourne's West</i>

2:56 PM - 3:02 PM AEDT	Constance Teunissen, University of Canberra <i>RegenerART: How community eco-art is facilitating disaster recovery, regeneration and risk reduction through transformative learning</i>
3:02 PM - 3:17 PM AEDT	Q&A
3:17PM - 3:30 PM AEDT	<u>HEAL Discussion & Wrap-up</u>
3:30 PM AEDT	Session end

Concurrent Thematic Breakout Sessions – Thursday 16 November 2023

FOOD, SOIL & WATER SAFETY AND SECURITY IN A CHANGING ENVIRONMENT
2:00 PM – 3:30 PM AEDT

Delivery	Online
Conveners	Associate Professor Thava Palanisami, University of Newcastle Dr Geetika Bhagwat, University of Newcastle
Session Description	Chemical exposure in the modern societies: Health impacts and solutions.

2:00 PM - 2:05 PM AEDT	<u>Welcome</u> Assoc Prof Thava Palanisami, University of Newcastle
2:05 PM - 3:30 PM AEDT	<u>Invited Talks</u>
2:05 PM - 2:20 PM AEDT	Assoc Prof Thava Palanisami, University of Newcastle <i>A fight against chemicals in the modern society</i>
2:20 PM - 2:40 PM AEDT	Prof Albert Juhasz, University of South Australia <i>PFAS and health implications</i>
2:40 PM - 2:55 PM AEDT	Dr Arjun Singh, CSSRI, Lucknow, India <i>Environmental chemicals and soil health</i>
2:55 PM - 3:05 PM AEDT	Renaë Earle, University of Queensland <i>Gather + Grow: Building collective action for food security in remote Queensland</i>
3:05 PM - 3:15 PM AEDT	Kala Senathirajaha, BOM Australia <i>Chemicals in food and cosmetics: Health impacts</i>
3:15 PM - 3:30 PM AEDT	Dr Frank Menger <i>Environmental chemicals and human health</i>
3:30 PM AEDT	Session end

Concurrent Thematic Breakout Sessions – Thursday 16 November 2023

AT-RISK POPULATIONS, EARLY LIFE EFFECTS & LIFE-COURSE SOLUTIONS

2:00 PM – 3:30 PM AEDT

Delivery	Online
Conveners	Associate Professor Caitlin Wyrwoll, University of Western Australia
Session Description	To highlight multidisciplinary approaches in understanding the effects of environmental change on health.

2:00 PM - 2:05 PM AEDT	<u>Welcome</u> Assoc Prof Caitlin Wyrwoll, University of Western Australia
2:05 PM - 3:05 PM AEDT	<u>Invited Talks</u>
2:05 PM - 2:25 PM AEDT	<i>Lewis Weeda, University of Western Australia</i> <i>Meta-analysis of the risk of climate-change effects on child health</i>
2:25 PM - 2:45 PM AEDT	Prof Mary Lou Rasmussen, Australian National University <i>Sociological research outcomes from Mother and Child 2020</i>
2:45 PM - 3:05 PM AEDT	Dr Vamshikrishna Malya, University of Technology Sydney <i>Pathophysiological changes in response to bushfire smoke exposure and therapeutic opportunities</i>
3:05 PM - 3:25 PM AEDT	<u>Panel Discussion</u>
3:25 PM - 3:30 PM AEDT	<u>Closing Remarks</u> Assoc Prof Caitlin Wyrwoll, University of Western Australia
3:30 PM AEDT	Session end

Concurrent Thematic Breakout Sessions – Thursday 16 November 2023

SCIENCE COMMUNICATION, CITIZEN SCIENCE, & RISK PERCEPTION

2:00 PM – 3:30 PM AEDT

Delivery	Online
Conveners	Professor Iain Walker, University of Melbourne
Session Description	With a focus on communication and engagement, this session will include presentations of empirical projects, a panel discussion on partnering for training, and a workshop on development of a science communication framework for the HEAL Network.

2:00 PM - 2:05 PM AEDT	<u>Welcome</u> Prof Iain Walker, University of Melbourne
2:05 PM - 3:15 PM AEDT	<u>Invited Talks</u>
2:05 PM - 2:20 PM AEDT	Aria Huang, Deakin University <i>Idle off advocacy pilot study: A school-based intervention to promote environmental awareness and action</i>
2:20 PM - 2:35 PM AEDT	Aswin Giri J, Indian Institute of Technology Madras <i>Perception-based population segmentation for effective air quality information dissemination</i>
2:35 PM - 3:00 PM AEDT	Dr Rebecca Patrick & Dr Annabelle Workman, University of Melbourne <i>Catalysing inter-disciplinary collaboration and action on climate, health, and equity outcomes in the Indo-Pacific</i>
3:00 PM - 3:25 PM AEDT	Dr Rebekah Anderson, University of Melbourne
3:25 PM - 3:30 PM AEDT	<u>Closing Remarks</u> Prof Iain Walker, University of Melbourne
3:30 PM AEDT	Session end



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