



Australian Government
National Recovery and Resilience Agency

Australian Institute for
Disaster Resilience



AIDR HANDBOOK SHOWCASE WEBINAR SERIES

Systemic Disaster Risk

LAUNCHED ON INTERNATIONAL DAY FOR DISASTER
RISK REDUCTION

WEDNESDAY 13 OCTOBER, 2-3PM AEDT



GUEST SPEAKERS



Jillian Edwards
Beyond Business as Usual



Professor Alan March
University of Melbourne



Ramana James
IAG



Beck Dawson
Resilient Sydney

Welcome

Amanda Leck
Executive Director, AIDR



Acknowledgement of Country

AIDR acknowledges the Traditional Custodians of the various lands on which you all join us from today and the Aboriginal and Torres Strait Islander people participating in this event.

We pay our respects to Elders past, present and emerging and celebrate the diversity of Aboriginal peoples and their ongoing cultures and connections to the lands and waters across Australia.

Senator the Hon Bridget McKenzie, Minister for Emergency Management and National Recovery and Resilience

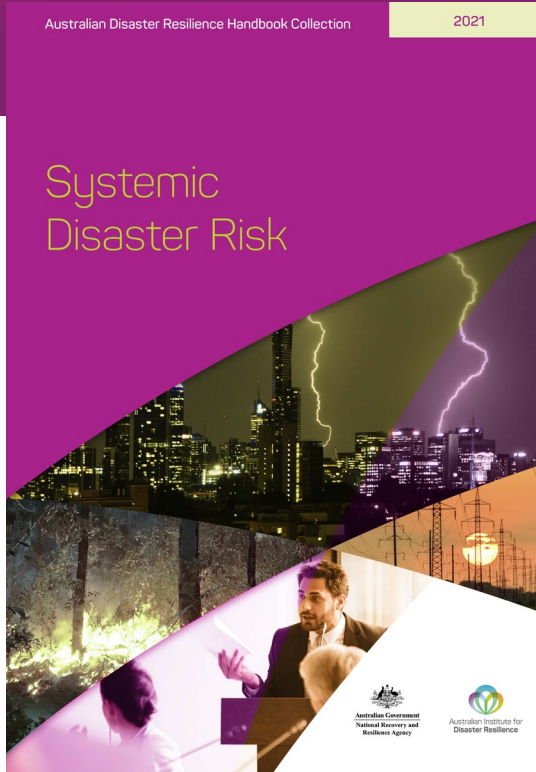


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Systemic Disaster Risk



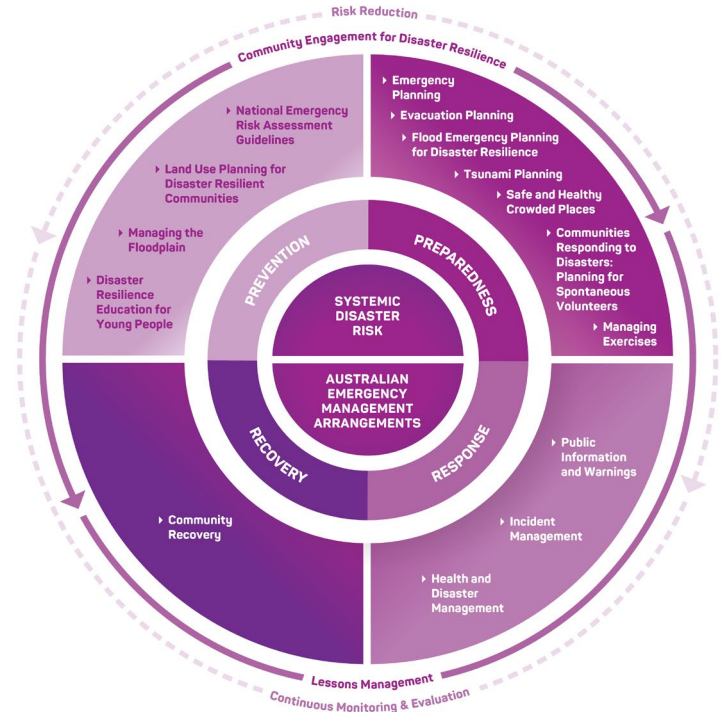
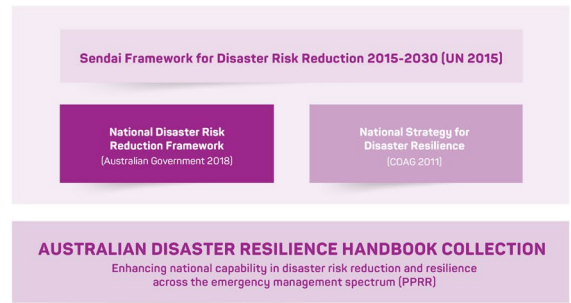
- Welcome! Feel free to share your name and where you're from in the chat box as you join us. Make sure you select *'all panelists and attendees'*
- All attendees are automatically muted for the duration of the webinar
- Use the Q&A box to ask questions to the presenters (not the chat box)
 - You can also upvote other questions by clicking the thumbs up button



The *Systemic Disaster Risk* Handbook is now live and freely available to download here:

<https://knowledge.aidr.org.au/resources/handbook-disaster-risk>

The Australian Disaster Resilience Handbook Policy Landscape



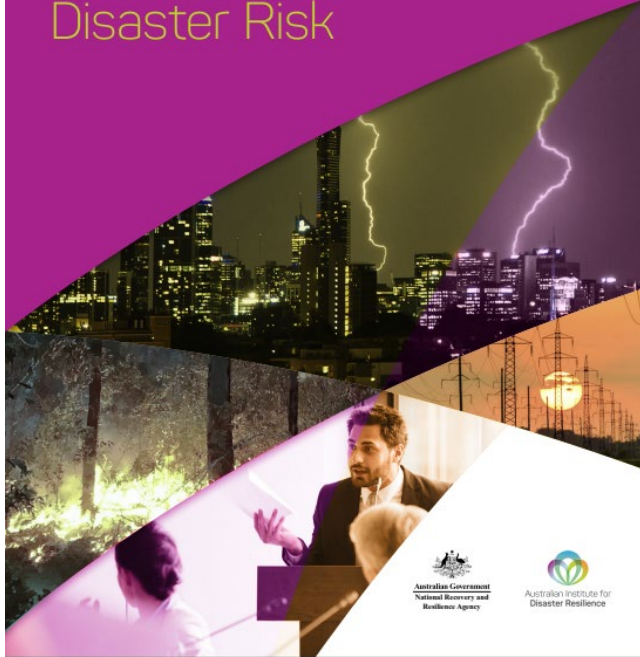
First speaker: Jill Edwards, Beyond Business and Usual

Jill has over 30 years of experience in disaster risk and emergency management in government, not for profit and private sector contexts. She is a specialist in helping solve complex problems and a thought leader in systemic climate and disaster risk management, emergency management, capability building and community services.

Jill was a member of the Australian Government's National Resilience Taskforce where she was a co-creator of the [National Disaster Risk Reduction Framework](#) and [strategic guidance materials](#) and was the driving force behind the project to [profile Australia's vulnerability](#).



Systemic Disaster Risk



Introducing the Systemic Disaster Risk Handbook

(AIDR 2021)

'The Systemic Disaster Risk handbook is high-level and principles-led. It fosters a disaster risk mindset to guide the evolution of good practice and innovative thought leadership to turn actions into outcomes.'

Jillian Edwards – 13 October 2021

AIDR Handbook Showcase: UNDRR International Day for Disaster Risk Reduction

Acknowledgements

- Our common purpose – reduce harm and loss
- All those who contribute to a rich body of knowledge and experiences (referenced throughout)
- Members of the Working Group (pages vi, vii)
- AIDR and the project team Katelyn Samson and Ella Wilkinson
- Cheryl Durrant (assisting Beyond Business as Usual)
- All those who follow – leaders and pioneers of systemic change and hope for the future

Foster networked systemic risk cultures as
a powerful, enabling force

What to expect from the Handbook

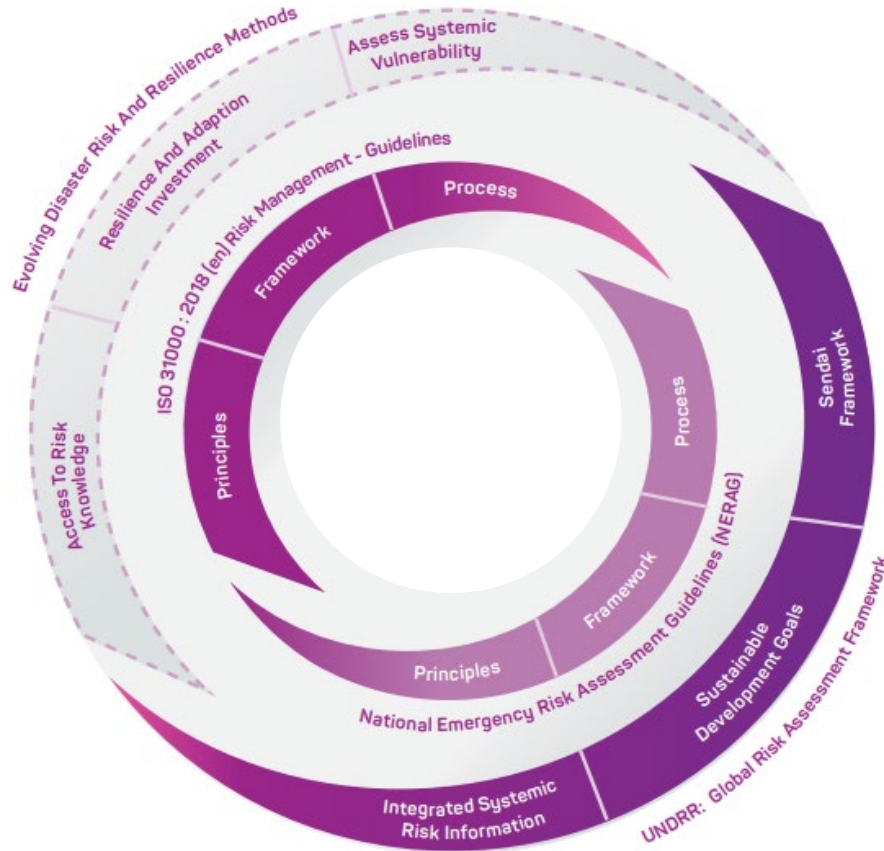
- A deliberate focus on people and decision-making
- Something for everyone
- A practical example of its Principles
- Unfinished business – adapting and learning from here

Treat decision-making as an active
learning process

‘Just tell
me what I
need to
know’

- Overwhelming amount of change
- Recognition disasters are NOT natural
- Momentum building - calls for cohesion and coordination
- Recognition NERAG* needs to move beyond hazard-based assessments

* National Emergency Risk Assessment Guidelines (NERAG)



Go big, go bold - highest points of leverage

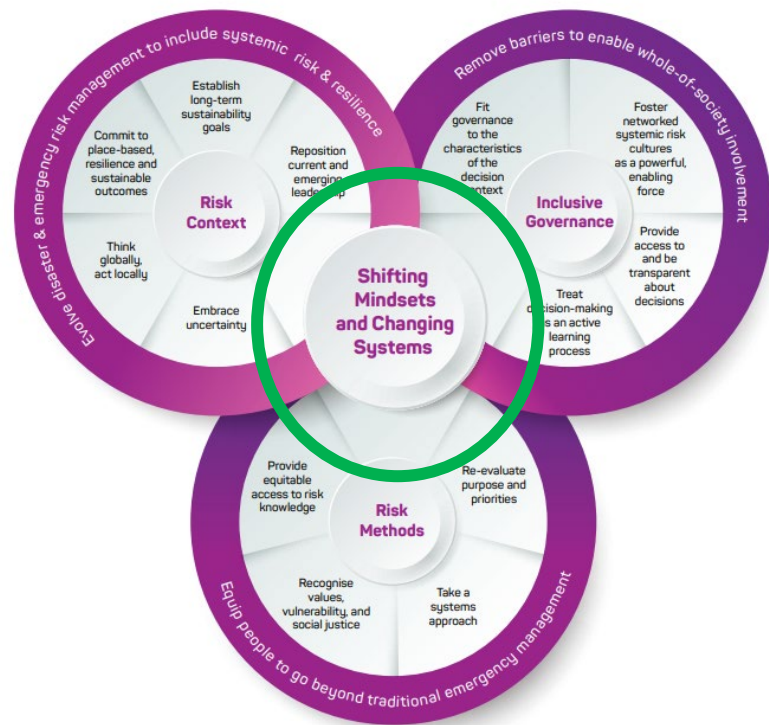
Why? “Because mindsets and paradigms guide behaviors, changing them can have a profound impact”.
(Donella Meadows)

Source: *Systemic Disaster Risk (AIDR 2021)*

Re-evaluate purpose
and priorities

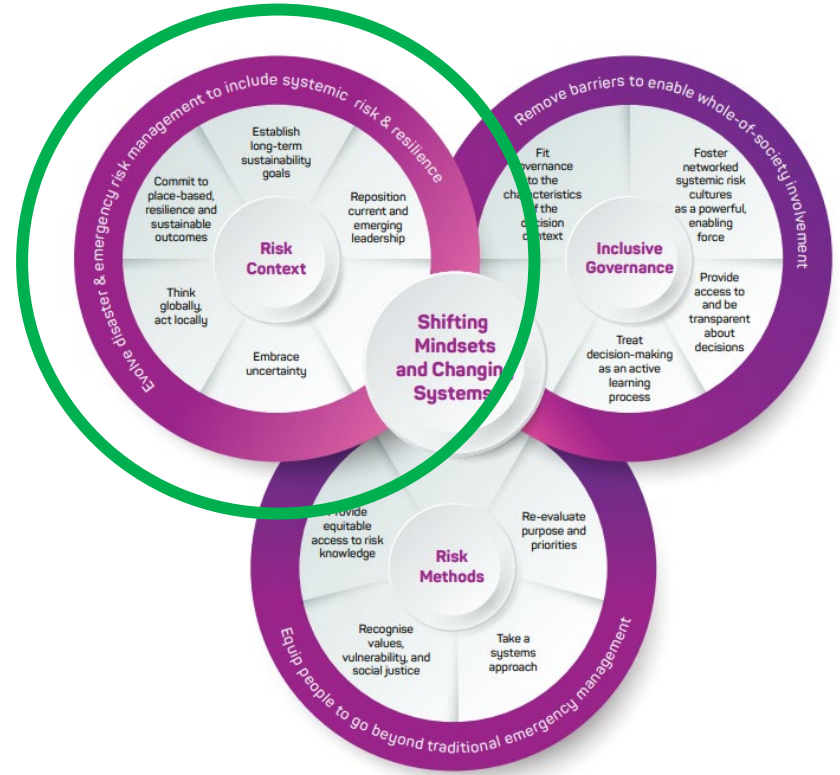
Principles-led

Principles-led means seeing beyond rules and laws that often provide necessary societal boundaries, to translating values, behaviours, and actions into tangible outcomes that influence good, purposeful decisions



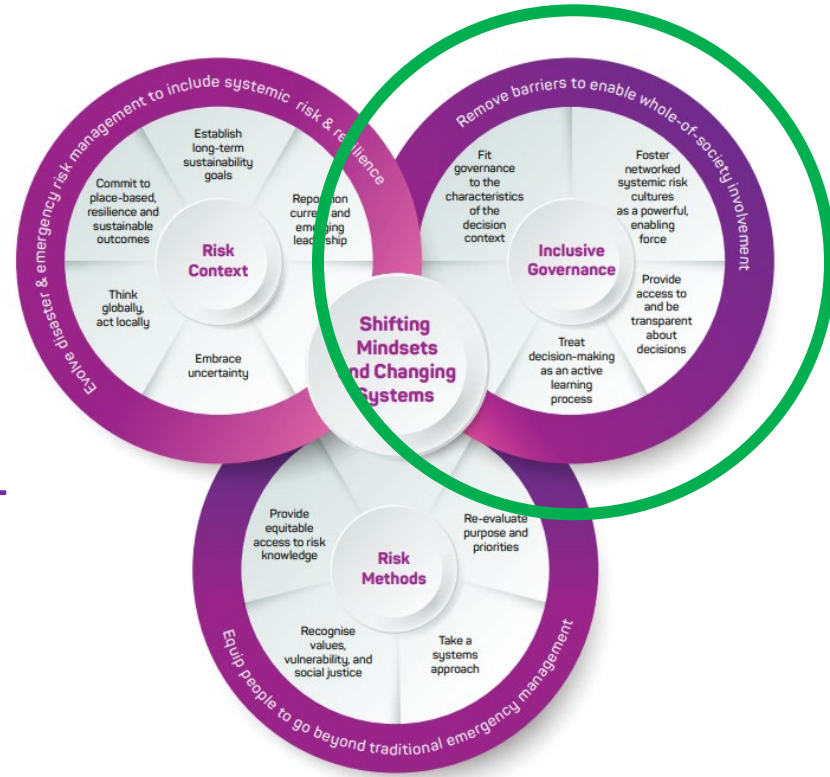
Change the risk context

- Evolve disaster and emergency risk management to include systemic risk and resilience



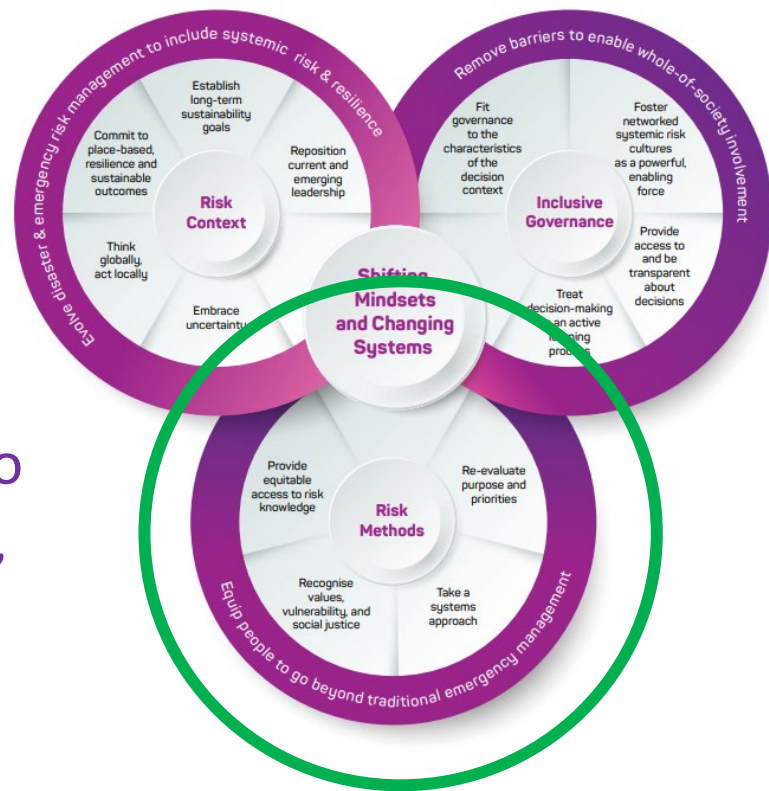
Build inclusive governance and risk cultures

- Remove barriers to enable whole-of-society involvement - vital to resilience and reducing loss and harm caused by disasters.

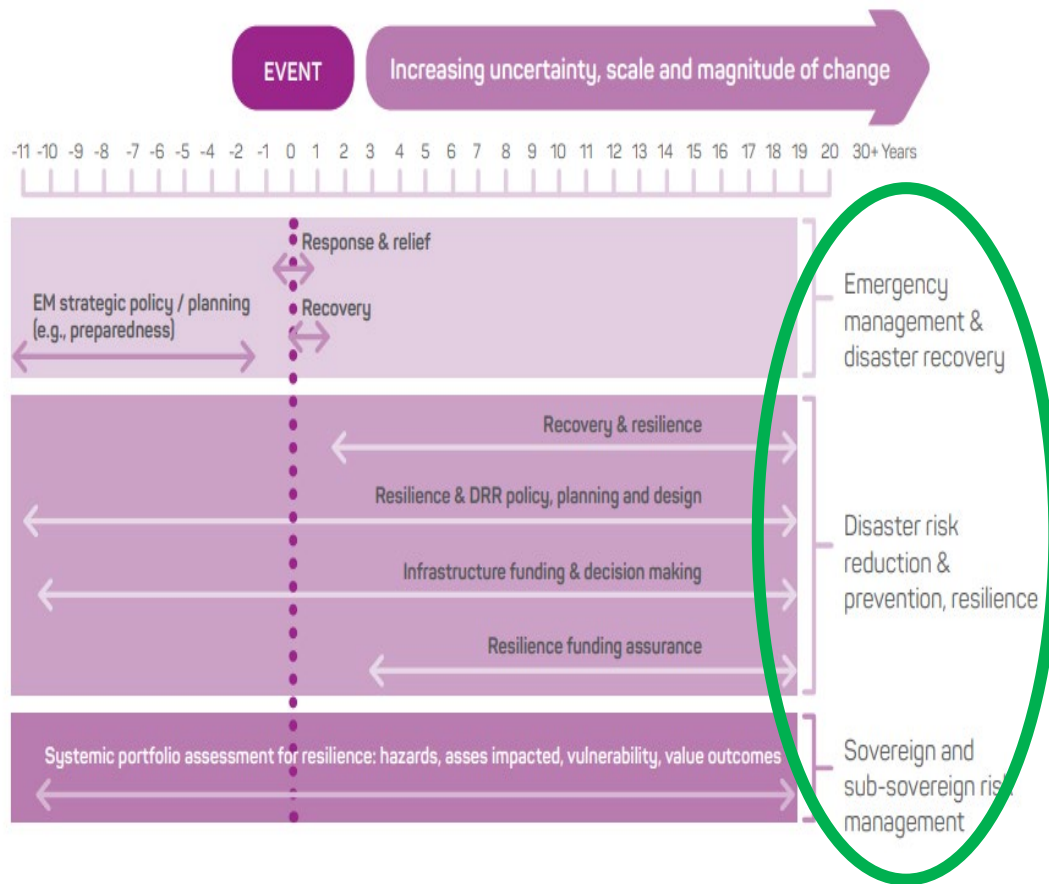


Rethink disaster risk methods

- People and communities need tools, ability, and knowledge beyond traditional emergency management to resist, absorb, accommodate, recover, transform, and thrive in response to the effects of shocks and stresses.



Source: Systemic Disaster Risk (AIDR 2021)



Investing in resilience and adaptation

- “The time horizon for all resilience investments are interdependent and need to be coordinated”

What now?

‘National frameworks and strategies generally establish sensible principles. It has, however, been difficult for us to determine the extent to which these principles have been, or will be, translated into tangible outcomes.’

(Australian Government, Royal Commission into National [Natural] Disaster Arrangements 2020)

- We are all learning
- Use the signposts, links and case studies
- Watch climate risk space
- Connect and collaborate
- Help create Edition 2

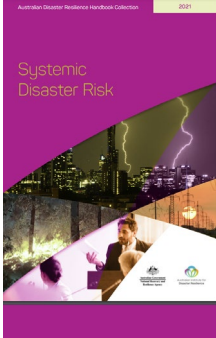
Think globally, act locally

Provide equitable access to risk knowledge

Take a systems approach

Thank you

Provide access to and be transparent
about decisions



<https://knowledge.aidr.org.au/resources/handbook-disaster-risk/>

Case Study Series

- Developed from interviews with leaders and decision makers from across the disaster risk reduction and resilience landscape.

Second speaker: Beck Dawson, Resilient Sydney

Described as the “person paid to worry about Sydney”, Beck leads the Resilient Sydney program and implementation of the first Resilient Sydney Strategy – an urban resilience roadmap for metropolitan Sydney. Collaboration projects in the strategy involve 33 metropolitan councils and their communities to build local responses to global and city system challenges from shocks and stresses.





Place-based Resilience Approach

Disaster Risk in the Resilient Sydney Program: 2015-2021

CONNECTED. INCLUSIVE. RESILIENT.





SYDNEY



Terror
attack



Disease
pandemic



Cyber
attack



Financial
institution
failure



Infrastructure
failure

**Sydney's Major
Acute Shocks**
c.2016



Digital
network
failure



Water
crisis



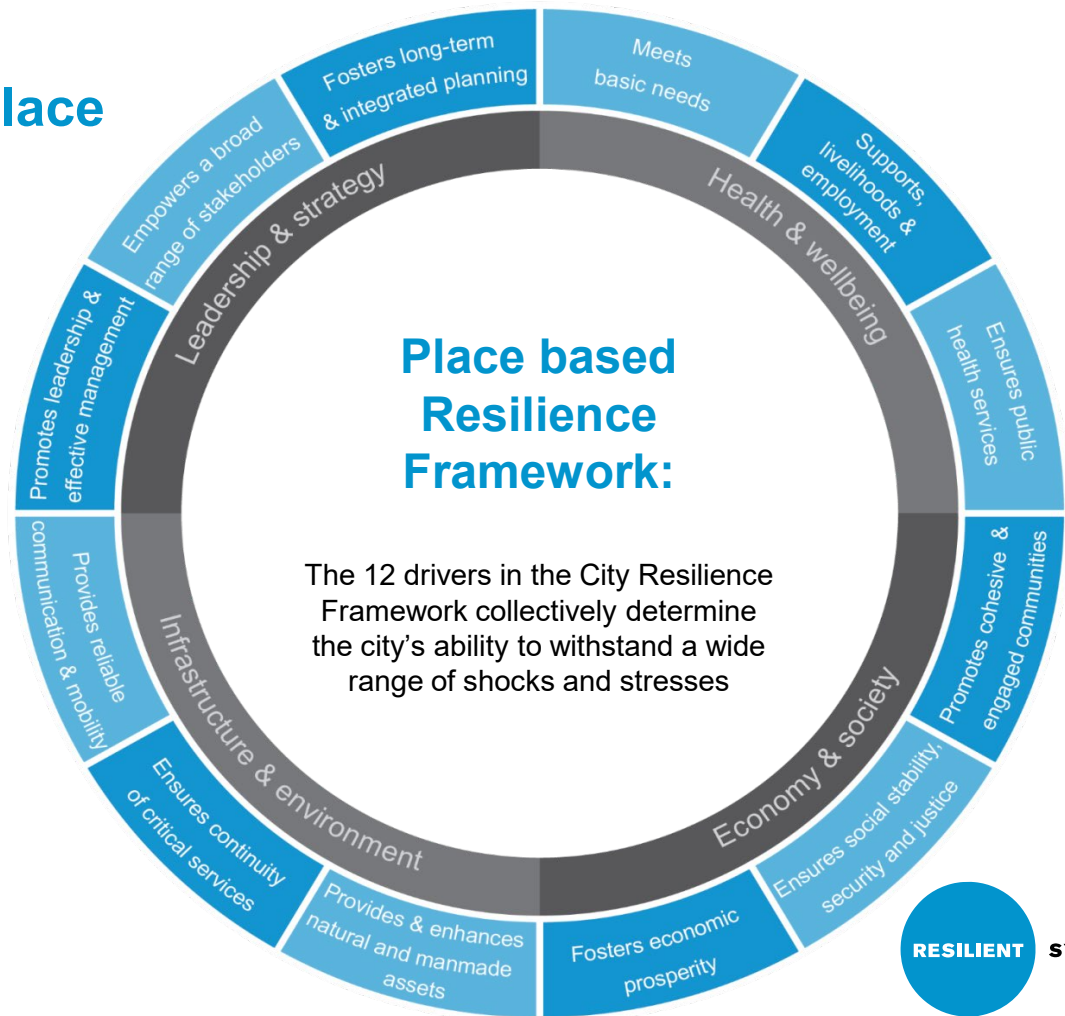
Extreme
weather



Assessing resilience in place

Methodology

1. What happened in the past, local context (shocks and stresses)
2. What might happen (megatrends, growth & investment, policy)
3. What people in the place think matters (community priorities).



A disruptive shock event magnifies the underlying stresses that were already there in a community

At a regional and local level, it is possible to:

1. Identify the key community stresses, and likely or most disruptive shock events, in advance
2. Understand potential impacts in the context of longer trends
3. Categorise the “resilience hazards” of that place
4. Test resilience hazards and priorities with the community and stakeholders of that place: “Be community led”
5. Develop key projects, investments, policies, processes and networks to collaboratively manage the hazards, reduce future impacts – change the system risks.




Thank you

RSO@cityofsydney.nsw.gov.au

www.resilientsydney.com.au

 [@ResilientSydney](https://twitter.com/ResilientSydney)

 au.linkedin.com/company/resilient-sydney



SYDNEY



**CITIES
NETWORK**

Third speaker: Alan March, University of Melbourne

Alan March is Professor of Urban Planning at the University of Melbourne. His research examines practical governance mechanisms in planning and urban design and the role of urban planning in reducing disaster risks. Alan led the BNHCRC project *Integrating Urban Planning and Disaster Risk Reduction* and was lead writer for AIDR's *Land Use Planning for Disaster Resilient Communities Handbook*.





THE UNIVERSITY OF
MELBOURNE

Systemic Risk, Land Use Planning & Regulation

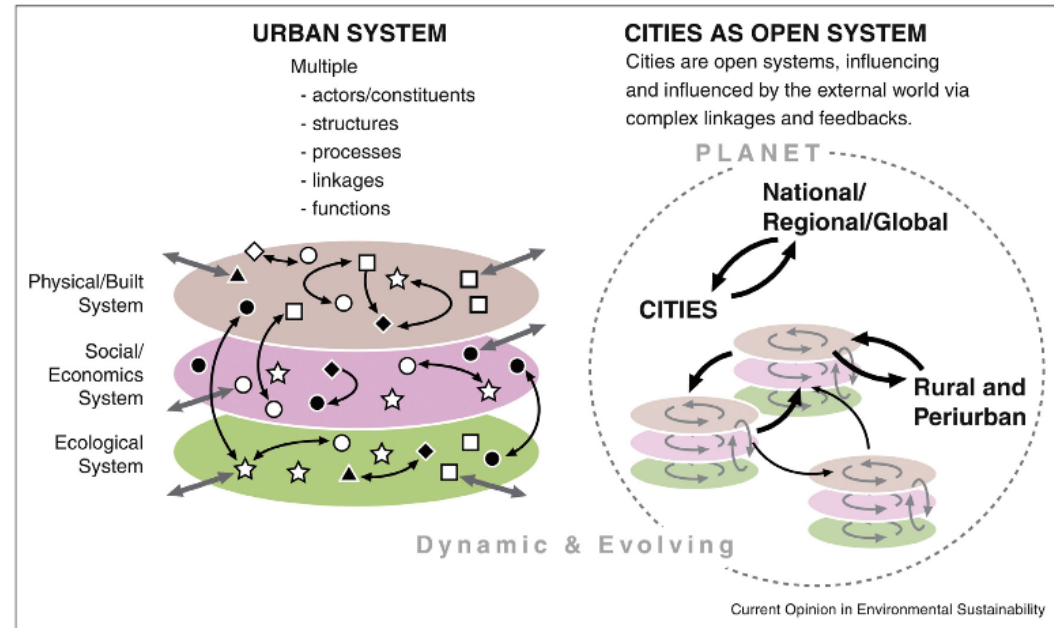
Professor Alan March



Urban planning: *decisions now* to improve the future.

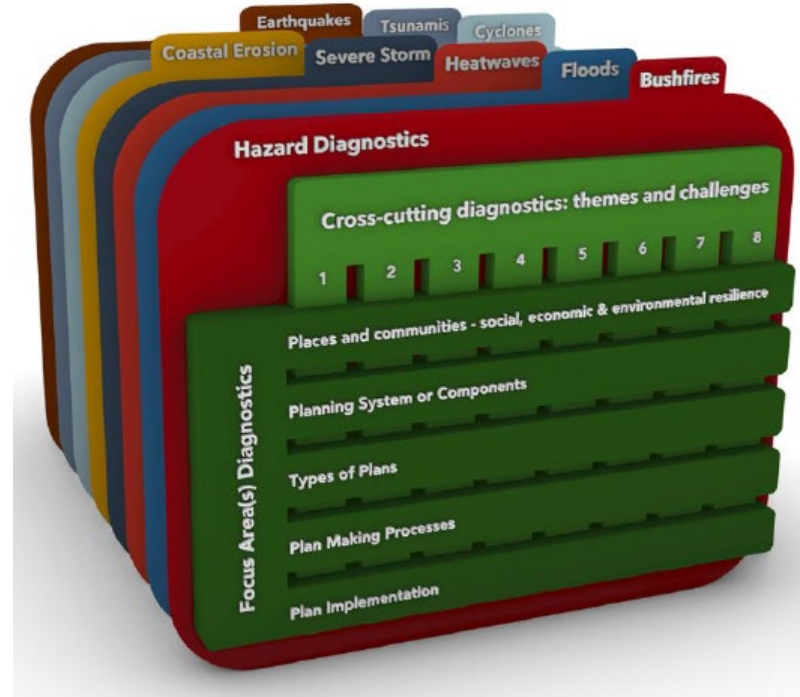


Urban planning is
just one actor in a
complex of
systems.



(Source: Bai, Xuemei 2016)


Systemic Risks are *wicked problems*.



Heatwave



bnhcra.com.au

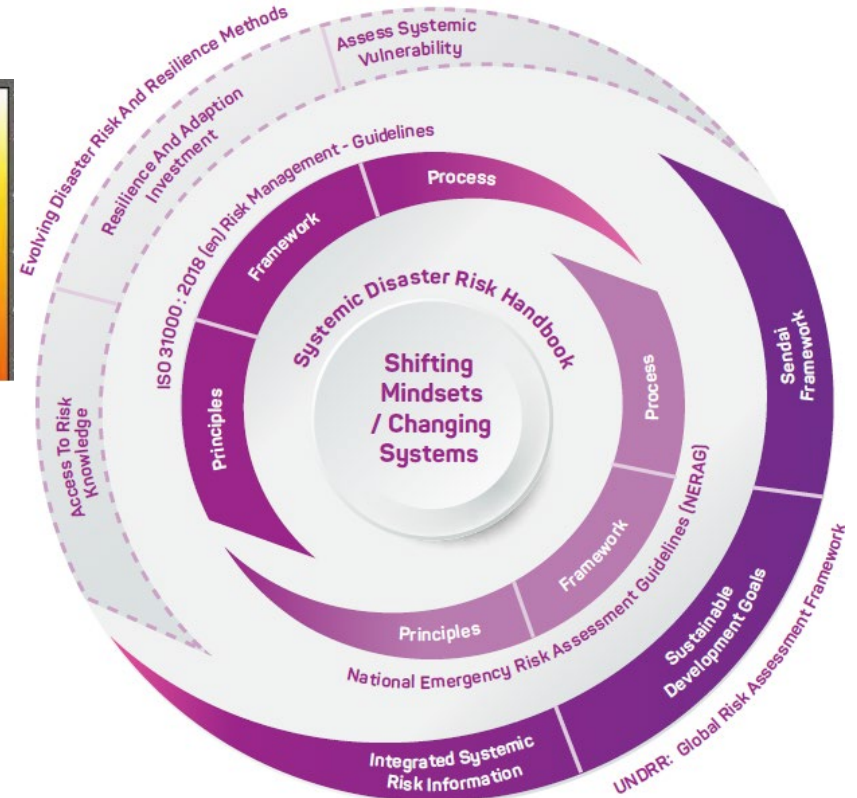
 bushfire&natural
HAZARDS CRC

HEATWAVE AND BUILDING CODES IN NEW SOUTH WALES: ISSUES AND PROSPECTS

Report for Resilience NSW

Prof Alan March^{1,2}, Dr Crystal Legacy¹, Dr Georgia Warren-Myers¹,
Dr Leonardo Nogueira de Moraes^{1,2}

¹Faculty of Architecture, Building and Planning, The University of Melbourne
²Bushfire and Natural Hazards CRC





Heatwave Challenges

Guiding Principles

Shared and defined responsibilities

All sectors have shared but defined responsibilities to reduce disaster risk.

Cultural change

All sectors cultivate a culture of disaster risk reduction awareness and action.

Integrated action

Efforts to reduce disaster risk must be integrated across sectors, not progressed in silos.

Inclusive engagement

All sectors connect with diverse stakeholders to ensure inclusive decision-making leading to more effective solutions.

Practical change at local, state and national levels

Continual improvement

All sectors continuously learn and innovate to improve practices and share our lessons, data and knowledge widely.

Data-driven decision making

Data and information informs implementation planning and execution.

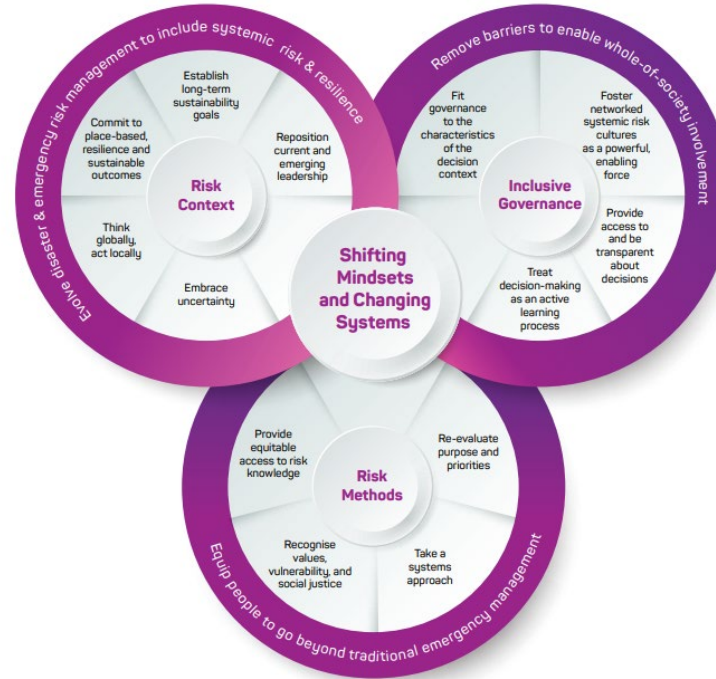
Leadership

Commitment is required at all levels and in all sectors to effectively reduce disaster risk.

Little regard for, or attention to :

1. Sustained internal building temperatures
2. Heatwave ratings,
3. Future heatwave risks,
4. Addressing occupant and building vulnerabilities; and geographical differences,
5. Integration of land use planning and other relevant mechanisms,
6. Retrofitting buildings,
7. Risk-based settlement planning, and
8. Use of passive and redundancy systems.

Systemic Risks are *wicked problems*.



Perhaps we can find *elegant solutions*?

Fourth speaker: Ramana James, IAG

Ramana is Executive General Manager of Safer Communities at IAG. He leads IAG's safer communities and shared value activity, which focuses on executing IAG's purpose of 'making your world a safer place' and supporting commercial opportunities through this work. Ramana has been recognised as a 'Shared value trailblazer' at the BOSS Magazine shared value awards and recently Co-Chaired the Coordinating Working Group for the Australian Sustainable Finance Initiative.



Q&A Session

- Do you have a question for our speakers?
- **Use the Q&A box to ask and vote for questions**



Beyond Bushfires Recovery Matters webinar series

Supporting recovery for children, families and schools

Exploring the 10 Years Beyond Bushfires Report

📅 20 October, 2021 ⌚ 2pm AEDT ➡ aidr.org.au/events

SPEAKERS

Professor Lisa Gibbs, University of Melbourne
Jane Nurse, Phoenix Australia
Bron Sparkes, Survivor of the 2009 Black Saturday

HOST

Andrew Coghlan, Australia Red Cross

Conclusion

- The *Systemic Disaster Risk Handbook*
<https://knowledge.aidr.org.au/resources/handbook-disaster-risk>
- Disaster Risk Reduction Collection:
<https://knowledge.aidr.org.au/collections/disaster-risk-reduction/>
including:
 - Sendai Framework for Disaster Risk Reduction
 - National Disaster Risk Reduction Framework
 - Guidance for Strategic Decisions on Climate and Disaster Risk
 - Profiling Australia's Vulnerability



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