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Key Topics: • multi-hazard [2]

• resilience [3]

• vulnerability [4]

The Australian Natural Disaster Resilience Index: A system for assessing the resilience of Australian communities to natural hazards [5] This project developed an index of the current state of disaster resilience in Australian communities – the Australian Disaster Resilience Index. The Index is a tool for assessing the resilience of communities to natural hazards at a large scale and is designed to provide input into macro-level policy, strategic planning and community engagement activities at national, state and local government levels.

Deliverables include the development of disaster resilience indicators, maps of disaster resilience at multiples scales, a State of Disaster Resilience Report, and examples that use the Index in a natural hazard resilience planning context.

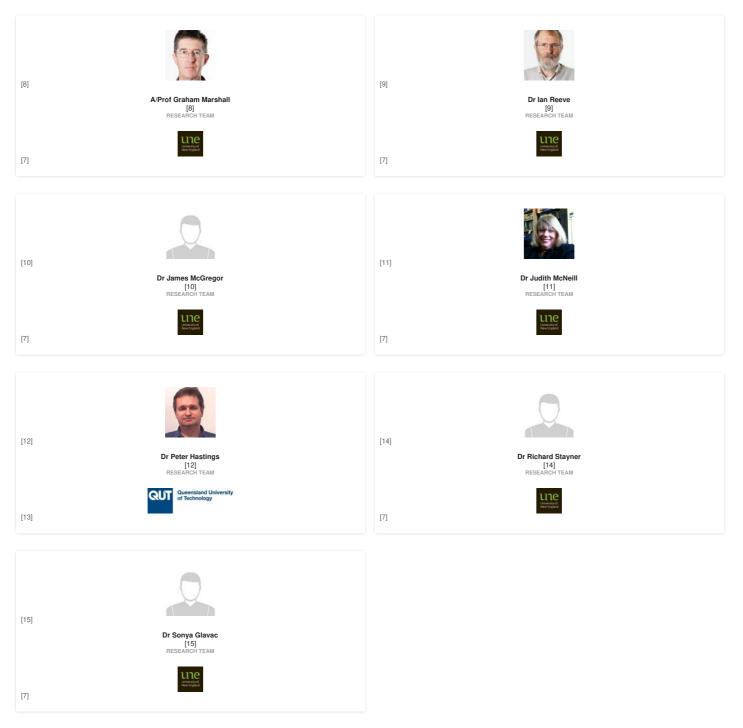
### Project: detail Notabs

### Research team

### Research leader



### Research team



## End User representatives

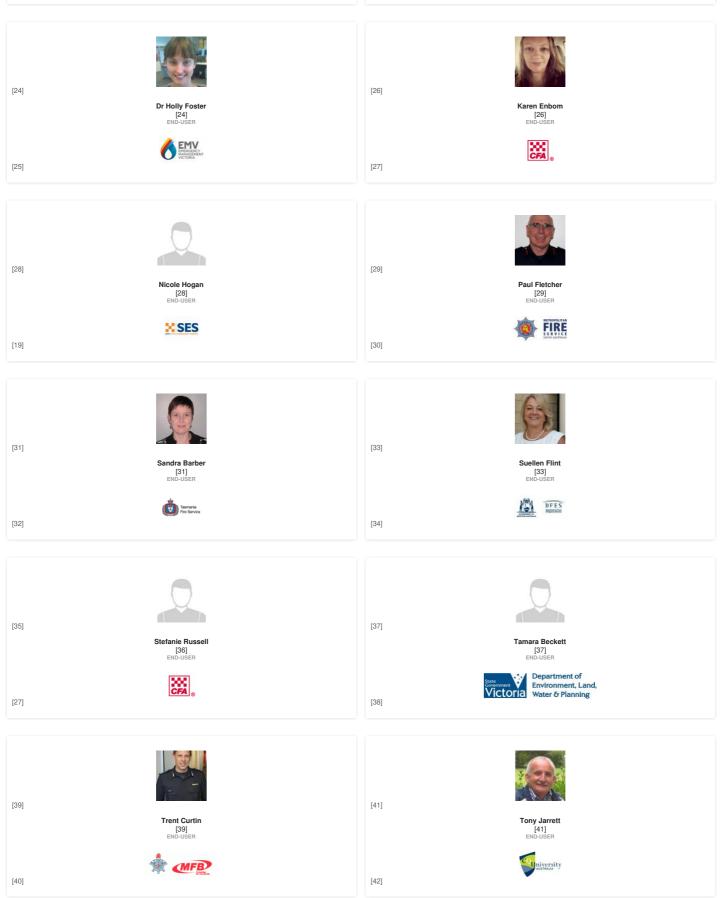
[16]	Anthony Bradstreet [16] END-USER	[18] Andrew Richards [18] BD-USER [19]
[20]	Chris Lewis [20] END-USER	[22] Colleen Ridge [22] END-USER



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### Description

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Resilience is the capacity of individuals and communities to cope with disturbances or changes and to maintain adaptive behaviours. Australia's National Strategy for Disaster Resilience (NSDR) takes an internationally progressive approach in the application of a disaster resilience paradigm. This strategy gives communities greater options and diversity in managing natural hazards, and places natural hazard preparation, prevention, response and recovery in the context of societies learning from and adapting to change.

The NSDR recognises four characteristics of disaster resilient communities: 1) they function well while under stress 2) they adapt successfully 3) they are self-reliant and 4) they have strong social capacity. Building these characteristics of disaster-resilient communities is seen as a shared responsibility among individuals, households, businesses, governments and communities. Yet how could progress towards the development of these characteristics be assessed? Where are the areas of high and low disaster resilience in Australia? How could investments to develop disaster resilience be prioritised, evaluated and reported?

This project developed an index of the current state of disaster resilience in Australian communities – the Australian Disaster Resilience Index. The Index is a tool for assessing the resilience of communities to natural hazards at a large scale and is designed to provide input into macro-level policy, strategic planning and community engagement activities at national, state and local government levels.

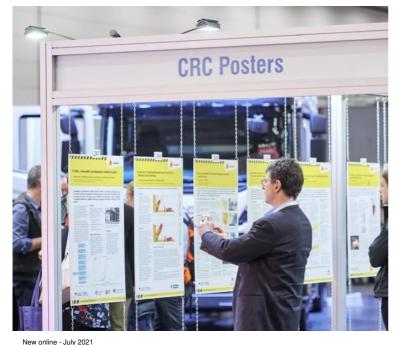
First, it is a snapshot of the current state of natural hazard resilience at a national scale. Second, it is a layer of information for use in strategic policy development and planning. Third, it provides a benchmark against which to assess future change in resilience to natural hazards. Understanding resilience strengths and weaknesses will help communities, governments and organisations to build the capacities needed for living with natural hazards.

Deliverables include the development of disaster resilience indicators, maps of disaster resilience at multiples scales, a State of Disaster Resilience Report, and examples that use the Index in a natural hazard resilience planning context.

The Index has application across local (e.g. local emergency management committees, local councils), state (e.g. emergency service organisations) and national (e.g. Attorney-General's Department, Red Cross, ANZEMC, AFAC) levels.

The project team worked with end-users to align the results and outputs from the Index with agency policy and programs. The researchers worked with agencies to develop fact sheets that agencies can use in community profiling and community engagement tools. The Index results can also be included in risk assessments. The maps provide quantitative spatial information about resilience for community planning and community engagement activities.

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[44]



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[46]



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[47]

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Establishing a wider view of impact LOCAL KNOWLEDGE

[48]



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[49]

18 NOV 2020

16 NOV 2020



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[50]



The new Australian Disaster Resilience Index: a tool for building safer, adaptable communities MULTI-HAZARD, RESILIENCE

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29 JUL 2020

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# e Australian Disaster Resilience Inc

- Building safer, adaptable commur

CRC to launch industry-first disaster resilience website COMMUNITIES, RESILIENCE

[55]

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[56]



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[68]



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15 MAR 2016



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[70]



Top end resilience discussed INDIGENOUS COMMUNITIES, NORTHERN AUSTRALIA

15 JUN 2015

05 JUN 2015



Sendai through a different lens COMMUNITIES, RESILIENCE

[72]

### Publications

Year	Туре	Citation
2021	Journal Article	Parsons, M. [6] et al. Disaster resilience in Australia: A geographic assessment using an index of coping and adaptive capacity [73]. International Journal of Disaster Risk Reduction 62, (2021).
2021	Journal Article	McGregor, J. [10], Parsons, M. [6] & Glavac, S. [15] Local Government Capacity and Land Use Planning for Natural Hazards: A Comparative Evaluation of Australian Local Government Areas
2020	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: Volume II – Chapter 2: Indicators [83]. The Australian Natural Disaster Resilience Index (Bushfire and Natural Hazards CRC
2020	Report	Parsons, M. [6] et al. The Australian Disaster Resilience Index: a summary [87]. (Bushfire and Natural Hazards CRC, 2020). Google Scholar [88] BibTeX [89] EndNote XML [90]
2020	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: Volume II – Chapter 1: Design of the Index [91]. The Australian Natural Disaster Resilience Index (Bushfire and Natural Haz
2020	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: Volume II – Chapter 6: Uncertainty and sensitivity analysis [95]. The Australian Natural Disaster Resilience Index (Bushfire
2020	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: Volume II – Index Design and Computation [99]. The Australian Natural Disaster Resilience Index (Bushfire and Natural Haz
2020	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: Volume II – Chapter 5: Statistical outputs: disaster resilience themes [103]. The Australian Natural Disaster Resilience Index: Volume II – Chapter 5: Statistical outputs: disaster resilience themes [103].
2020	Report	Parsons, M. [6] et al. The Australian Disaster Resilience Index: Volume I – State of Disaster Resilience Report [107]. The Australian Disaster Resilience Index (Bushfire and Natural Hazards CRC,
2020	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: Volume II – Chapter 4: Statistical outputs: ANDRI, coping capacity and adaptive capacity [111]. The Australian Natural L
2020	Report	Parsons, M. [6] et al. A typology of disaster resilience in Australia - annual report 2018-19 [115]. (Bushfire and Natural Hazards CRC, 2020). Google Scholar [116] BibTeX [117] EndNote XML [118
2020	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: Volume II – Chapter 3: Computation of the Australian Natural Disaster Resilience Index [119]. The Australian Natural Dis
2020	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: a system for assessing the resilience of Australian communities to natural hazards - final project report [123]. (Bushfir
2018	Journal Article	Parsons, M. [6] & Thoms, M. [127] From academic to applied: operationalising resilience in river systems [128]. Geomorphology 305, 242-251 (2018). DOI [129] Google Scholar [130] BibTeX [131
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2017	Conference Paper	Rumsewicz, M. [138] Research proceedings from the 2017 Bushfire and Natural Hazards CRC and AFAC Conference [139]. Bushfire and Natural Hazards CRC & AFAC annual conference 2017 (F
2017	Conference Paper	Parsons, M. [6] & Lykins, A. [143] Cultural worldviews and natural hazard risk perception: a pilot study of Australian adults [144]. AFAC17 (Bushfire and Natural Hazards CRC, 2017). Google Sch
2017	Conference Paper	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: assessing Australia's disaster resilience at a national scale [148]. AFAC17 (Bushfire and Natural Hazards CRC, 2017). Go
2017	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: annual project report 2016-17 [152]. (Bushfire and Natural Hazards CRC, 2017). Google Scholar [153] BibTeX [154] EndNot
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2016	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: Annual project report 2015-2016 [165]. (Bushfire and Natural Hazards CRC, 2016). Google Scholar [166] BibTeX [167] End
2016	Report	Parsons, M. [6] et al. The Australian Natural Disaster Resilience Index: Conceptual framework and indicator approach [169]. (Bushfire and Natural Hazards CRC, 2016). Google Scholar [170] Bib
2015	Report	Morley, P. [173] & Parsons, M. [6] The Australian Natural Disaster Resilience Index Annual Report 2014 [174]. (2015). Google Scholar [175] BibTeX [176] EndNote XML [177]
2015	Report	Morley, P. [173] et al. The Australian Natural Disaster Resilience Index: Annual project report 2014-2015 [178]. (Bushfire and Natural Hazards CRC, 2015). Google Scholar [179] BibTeX [180] End
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16 APR 2015

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DATE [182]	TITLE [183]	DOWNLOAD	KEY TOPICS
19 Mar 2014	The Australian natural disasters resilience index [184]	🚮 612.61 KB	[185]þ(ddi R)p[166]), multi-
08 Sep 2014	The Australian natural disaster resilience index [187]	🛃 1.17 MB	[ <b>188</b> ]າ(ການທີ່ເ <b>ໄປຊີ</b> )[189], re:
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10 Apr 2015	The Australian Natural Disaster Resilience Index 2015 NSW RAF Presentation [191]	🛃 3.5 MB	[192]n(a:5rlv1B)s [189], mi
17 May 2016	The Australian natural disaster resilience index: a system for assessing the resilience of Australian communities to natural hazards [193]	🛃 2.56 MB	[196]n(256itWB)[189], mi
14 Jun 2016	What is disaster resilience and how can it be measured? [195]	🚽 373.58 KB	[ <b>19:6]∩(87:30588:k/₽)</b> 89], inc
18 Apr 2017	The Australian Natural Disaster Resilience Index - April 2017 [198]	🛃 2.78 MB	[196)]#217828/18)[2], resili
07 Jul 2017	Lightning presentation: the Australian Natural Disaster Resilience Index [200]	🛃 1.16 MB	[2011])(1-1162.0/1B)[2], resili
07 Sep 2017	Cultural worldviews and natural hazard risk perception: a pilot study of Australian adults [202]	🛃 540.59 KB	[203]n(540x50eK[9)89], inc
07 Sep 2017	The Australian Natural Disaster Resilience Index [204]	🗃 928.51 KB	[205])(1928.53/dK[22]), resili
15 Sep 2017	Assessing Australia's resilience to natural hazards [206]	🗃 495.38 KB	[2007]n(4955a&&KB)89], pc
17 Apr 2018	The Australian Natural Disaster Resilience Index [209]	🛃 2.17 MB	[216])i(gatlorM(B) 1], multi-
01 Jun 2018	Fire Australia Issue Two 2018 [212]	🗃 6.73 MB	[2 <b>℃3]າ(6</b> α <b>7</b> 3ai <b>1\49</b> 3)[189], de
18 Jun 2019	The Australian Natural Disaster Resilience Index: A profile of Australia's disaster resilience [216]	🗃 975.98 KB	[2to]n(9755198ek(P)89], re:
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#### Posters

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The Australian natural disaster resilience index: A system for assessing the resilience of Australian communities to natural hazards

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The Australian Natural Disaster Resilience Index: Assessing the Resilience of Australian Communities to Natural Hazards

[238] multi-hazard [2], resilience [3]

Resilient communities are better able to anticipate hazards, withstand adversity, reduce losses and recover...



Indicators of disaster resilience for the Australian natural disaster resilience index

[239] INFRASTRUCTURE [240], RESILIENCE [3]

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#### The Australian Natural Disaster Resilience Index

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Virtually Resolute: Influencing Decision-Making to Promote Mental Health and Reduce Flood Driving

[242] COMMUNITIES [189], DECISION MAKING [214]

Flood driving fatalities are on the rise despite appeals to the general public. While much is known about the...



#### The Australian Natural Disaster Resilience Index

[243]

MULTI-HAZARD [2], RESILIENCE [3]

The Australian Natural Disaster Resilience Index will assess and report the resilience of Australian...

27 AUG 2019

A profile of Australia's disaster resilience

[244] RESILIENCE [3]

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#### The Australian Disaster Resilience Index Dashboard

[245] MULTI-HAZARD [2]

Key findings: The Australian Disaster Resilience Index is a snapshot of the capacities for disaster...

#### Linked Projects

246] COMMUNICATION AND WARNINGS [247]			
OMMONICATION AND WARNINGS [247]			
Prof Vivienne Tippett Queensland University of Technology [13]			
	QUT Generative University		[13]
mproving the role of hazard communications in in	creasing residents' preparedness and response planr	ing	
248]	3 · · · · · · · · · · · · · · · · · · ·	5	
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Mapping and understanding bushfire and natural hazard vulnerability and risks at the institutional scale [252]

#### ECONOMICS AND STRATEGIC DECISIONS [253]

Prof Roger Jones Victoria University [254]

Improved decision support for natural hazard risk reduction [255] ECONOMICS AND STRATEGIC DECISIONS [253] Prof Holger Maier University of Adelaide [256]	
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Northern Australian bushfire and natural hazard training [257] UNDERSTANDING AND ENHANCING RESILIENCE [258]	
Steve Sutton Charles Darwin University [259]	
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