



SOUTHERN NSW
Innovation Hub

SUSTAINABLE AGRICULTURE,
LANDSCAPES AND COMMUNITIES

EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES

APPENDICES | **MARCH 2024**

APPENDIX A: ASSESSMENT OF DATA AVAILABILITY (BY DATA SOURCE)

This Appendix provides a summary table of findings of the indicator scan conducted in Stage 1 and Stage 2, by data source. Some data sources are used to collect multiple indicators.

DATA SOURCE	AVAILABILITY	GEOGRAPHY	COMPLETENESS	FREQUENCY	RECENCY	TIME SERIES	STRENGTH OF EVIDENCE	OUTCOME
Regional Wellbeing Survey (multiple indicators)	✓	✓	✓	✓	✓	✓	✓	Trial/test
DEWR: Workforce Australia Caseload Data Time Series	✓	✓	✓	✓	✓	✓	x	Do not trial/test
ABS: Job Vacancy Report	✓	x	✓	✓	✓	✓	x	Do not trial/test
JSA: Internet Vacancy Index	✓	✓	✓	✓	✓	✓	✓	Trial/test
JSA: Small Area Labour Markets	✓	✓	✓	✓	✓	✓	x	Do not trial/test
JSA: Nowcast of Employment by Region and Occupation	✓	x	✓	✓	✓	✓	x	Do not trial/test
DSS: Benefit and Payment Recipient Demographics	✓	✓	✓	✓	✓	✓	✓	Trial/test
SGS Economics & Planning: Rental affordability index	✓	✓	✓	✓	✓	✓	✓	Trial/test
Good Shephard	x	?	?	?	?	?	?	Explore in future
Origin Energy	x	?	?	?	?	?	?	Explore in future
Financial Counselling Australia	x	?	?	?	?	?	?	Explore in future
Australian Financial Security Authority: Bankruptcy Register Search	x	✓	✓	✓	✓	✓	?	Access in future
Credit card companies/banks	x	?	?	?	?	?	?	Explore in future

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DATA SOURCE	AVAILABILITY	GEOGRAPHY	COMPLETENESS	FREQUENCY	RECENCY	TIME SERIES	STRENGTH OF EVIDENCE	OUTCOME
NSW OLG: Your Council Report (multiple indicators)	✓	✓	✓	✓	✓	✓	✓	Trial/test
National Debt Helpline	x	?	?	?	?	?	?	Explore in future
ATO: Delay in payment of tax bills	x	✓	✓	✓	✓	✓	?	Access in future
Service NSW: Energy Accounts Payment Assistance data	x	?	?	?	?	?	?	Explore in future
HILDA: Households earning a living wage	✓	x	✓	✓	✓	✓	✓	Do not trial/test
Domain (real-estate adverts)	x	?	?	?	?	?	?	Explore in future
SEEK (employment adverts)	x	?	?	?	?	?	?	Explore in future
ABS: Labour Force Survey	✓	x	?	x	?	✓	✓	Do not trial/test
National Debt Helpline	x	?	?	?	?	?	?	Explore in future
Services Australia: PBS and Medicare	x	?	?	?	?	?	?	Explore in future
Lifeline, Beyond Blue, ReachOut, Head to Health	x	?	?	?	?	?	?	Explore in future
AIHW: MBS funded services	✓	✓	?	✓	✓	✓	?	Explore in future
Bureau of Health Information (NSW Government)	✓	✓	✓	✓	✓	✓	?	Access in future
Australian Curriculum Assessment and Reporting Authority	x	?	?	?	?	?	?	Explore in future
NSW Centre for Education Statistics and Evaluation	✓	✓	✓	✓	✓	✓	✓	Trial/test

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DATA SOURCE	AVAILABILITY	GEOGRAPHY	COMPLETENESS	FREQUENCY	RECENCY	TIME SERIES	STRENGTH OF EVIDENCE	OUTCOME
ABS: Divorces Australia	x	?	?	?	?	?	?	Explore in future
HILDA	✓	x	x	x	x	x	?	Do not trial/test
Australian Institute of Family Studies	x	c	?	?	?	?	?	Explore in future
ABS: Patient Experiences data	✓	x	?	x	x	x	?	Explore in future
Australian Competition & Consumer Commission	?	?	?	?	?	?	?	Explore in future
Speedtest	?	?	?	?	?	?	?	Explore in future
Local water bodies data e.g. Riverina Water, ICON Water	?	?	?	?	?	?	?	Explore in future
NSW State Emergency Service	x	?	?	?	?	?	?	Explore in future
ABS: Consumer Price Index	✓	x	x	✓	✓	✓	?	Do not trial/test
Australian HR Institute	x	?	?	?	?	?	?	Explore in future
BOM: Fire Behaviour Index	✓	✓	✓	✓	✓	✓	✓	Trial/test
Air quality index	✓	✓	✓	✓	✓	✓	✓	Trial/test
DPIE NSW: (Potable Water Supplied – Residential (Units: ML))	✓	✓	✓	✓	✓	✓	✓	Trial/test
BOM: Storm Risk	✓	✓	✓	✓	✓	✓	✓	Trial/test
NSW DPI Combined Drought Indicator (CDI)	✓	✓	✓	✓	✓	✓	✓	Trial/test
BOM: Excess Heat Factors	✓	✓	✓	✓	✓	✓	✓	Access in future
Climate Council	✓	✓	?	?	?	?	✓	Explore in future
WaterInsights	✓	✓	?	?	?	?	✓	Explore in future

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DATA SOURCE	AVAILABILITY	GEOGRAPHY	COMPLETENESS	FREQUENCY	RECENCY	TIME SERIES	STRENGTH OF EVIDENCE	OUTCOME
BOM: Forest Fire Danger Index (FFDI)	✓	✓	✓	✓	✓	✓	✓	Explore in future
Australasian Fire and Emergency Service Authorities Council Seasonal Bushfire Outlook	?	?	?	?	?	?	?	Explore in future
Twitter/X (multiple indicators)	?	?	?	✓	✓	✓	?	Explore in future



APPENDIX B: PILOT INDICATOR LIST

This Appendix summarises the indicators selected for inclusion in the pilot *Early Insights* dashboard.

FINANCIAL RESOURCES

INDICATOR	DATA SOURCE	INDIVIDUAL/ HOUSEHOLD MEASURE?	COMMUNITY- WIDE MEASURE?	DESCRIPTION
Household financial stress	Regional Wellbeing Survey	✓	✓	% households experiencing financial stress events within the last 12 months
Housing affordability	Regional Wellbeing Survey	✓	✓	% residents finding housing costs in local area affordable
Living cost affordability	Regional Wellbeing Survey	✓	✓	% residents finding living costs in local area affordable
Rental Affordability Index	SGSEP	x	✓	Level of affordability of rental properties
Job vacancies (Internet Vacancy Index)	Jobs & Skills Australia	x	✓	Change in job vacancies over time compared to an 'index point' of May 2010.
Overdue rates and charges	NSW Office of Local Government	x	✓	This indicator is a measure of overdue rates and charges calculated by rates and annual charges outstanding divided by rates and charges collectible



HUMAN RESOURCES

INDICATOR	DATA SOURCE	INDIVIDUAL/ HOUSEHOLD MEASURE?	COMMUNITY- WIDE MEASURE?	DESCRIPTION
Psychological distress	Regional Wellbeing Survey	✓	✓	This indicator examines the extent to which a person is experiencing common symptoms of psychological distress associated with poor mental health. Across a population, it provides insight into prevalence of levels of distress likely to affect daily functioning.
Personal wellbeing	Regional Wellbeing Survey	✓	✓	This indicator examines the extent to which a person is experiencing good levels of wellbeing that are associated with more positive daily functioning and better life outcomes in the long term.
Psychological resilience	Regional Wellbeing Survey	✓	✓	This indicator examines the extent to which a person has personal psychological resilience, meaning the ability to recover from challenges that present difficulties to day-to-day functioning.
School attendance	NSW Department of Education	x	✓	This indicator identifies if overall school attendance is changing over time, with low attendance likely to be an indicator of reduced functioning for a significant proportion of households in a community.
Potentially avoidable deaths	Australian Institute of Health and Welfare MORT books	x	✓	This indicator identifies the rate of potentially avoidable deaths occurring in a community. An increase in potentially avoidable deaths suggests a loss of resilience as the community is not functioning as successfully as it previously did to reduce potentially avoidable deaths.

SOCIAL RESOURCES

INDICATOR	DATA SOURCE	INDIVIDUAL/ HOUSEHOLD MEASURE?	COMMUNITY- WIDE MEASURE?	DESCRIPTION
Access to practical support from friends/ family	Regional Wellbeing Survey	✓	✓	This indicator is a survey measure that asks participants how easy or difficult to access practical support from family or friends when they need it
Access to emotional support from friends/ family	Regional Wellbeing Survey	✓	✓	This indicator is a survey measure that asks participants how easy or difficult it is to access emotional support from family or friends when they need it
Access to financial support from friends/ family	Regional Wellbeing Survey	✓	✓	This indicator is a survey measure that asks participants how easy or difficult it is to access financial support from family or friends when they need it
Spending time with friends and family index	Regional Wellbeing Survey	✓	✓	This indicator is an index created from the average of three survey measures that ask about the frequency of interaction with friends, family, and neighbours
Community engagement - community events	Regional Wellbeing Survey	✓	✓	This indicator is a survey item that asks participants to rate how often they attend community events such as farmers markets, community festivals
Volunteering	Regional Wellbeing Survey	✓	✓	This indicator is a survey item that asks participants to rate how often they volunteer in their local community



ACCESS TO INFRASTRUCTURE AND SERVICES

INDICATOR	DATA SOURCE	INDIVIDUAL/ HOUSEHOLD MEASURE?	COMMUNITY- WIDE MEASURE?	DESCRIPTION
Telecommunications – mobile phone reception	Regional Wellbeing Survey	✓	✓	Survey measure that asks participants to rate how good or poor is mobile phone reception in their region at the moment'
Telecommunications – internet	Regional Wellbeing Survey	✓	✓	Survey measure that asks participants to rate how good or poor is high-speed reliable internet in their region at the moment'
Local roads	Regional Wellbeing Survey	x	✓	Survey measure that asks participants to rate how good or poor is the quality of local roads in their region at the moment'
Tradespeople	Regional Wellbeing Survey	x	✓	Survey measure that asks participants to rate how good or poor is availability of tradespeople
Professional services	Regional Wellbeing Survey	x	✓	Survey measure that asks participants to rate how good or poor availability of professional services (e.g. accountants, lawyers
Local government asset renewal	NSW Office of Local Government	x	✓	This indicator identifies local government spending on renewal of assets indicator measured by the Building & Infrastructure Renewal Ratio (BIRR).
Local government asset maintenance	NSW Office of Local Government	x	✓	This indicator identifies local government spending on asset maintenance Asset Maintenance Ratio (AMR).
Public halls	NSW Office of Local Government	x	✓	This indicator identifies the rate of public halls per 10,000 people in each local government area.

LIVEABILITY OF COMMUNITY

INDICATOR	DATA SOURCE	INDIVIDUAL/ HOUSEHOLD MEASURE?	COMMUNITY- WIDE MEASURE?	DESCRIPTION
Liveability of community (recommend community to others)	Regional Wellbeing Survey	✓	✓	This indicator examines liveability by identifying the proportion of people who would recommend their community to others as a good place to live.
Perceptions of local crime levels	Regional Wellbeing Survey	✓	✓	This indicator examines liveability by identifying the proportion of people who report concerns about local crime.

INSTITUTIONAL RESOURCES

INDICATOR	DATA SOURCE	INDIVIDUAL/ HOUSEHOLD MEASURE?	COMMUNITY- WIDE MEASURE?	DESCRIPTION
Confidence in local government	Regional Wellbeing Survey	✓	✓	This indicator identifies the proportion of people in a community who are confident that their local government can help their community face challenges. This directly examines the aspect of local government leadership required for resilience to natural hazard events.
Confidence in local leadership	Regional Wellbeing Survey	✓	✓	This indicator examines whether there is confidence that when problems occur, one or more people in the local community will take a leadership role to help address the problem.
Effectiveness of local groups and organisations	Regional Wellbeing Survey	✓	✓	Effective institutions are able to 'get things done'. This indicator examines whether local residents are confident that local groups and organisations are good at getting things done in their community.

ECOSYSTEM SERVICES

INDICATOR	DATA SOURCE	INDIVIDUAL/ HOUSEHOLD MEASURE?	COMMUNITY- WIDE MEASURE?	DESCRIPTION
Local amenity – environment and surrounds	Regional Wellbeing Survey	✓	✓	This indicator identifies the proportion of people in a community who are confident that their local government can help their community face challenges. This directly examines the aspect of local government leadership required for resilience to natural hazard events.
Local amenity – nature areas	Regional Wellbeing Survey	✓	✓	This indicator examines whether there is confidence that when problems occur, one or more people in the local community will take a leadership role to help address the problem.
Availability of potable water	NSW Department of Planning and Environment	x	✓	This indicator identified that volume of potable water available by population
Air quality	NSW Spatial Digital Twin	x	✓	This indicator examines air pollutants, standardising measurements of ozone, carbon monoxide, sulfur dioxide, nitrogen dioxide, airborne particles and visibility
Observed environmental change	Regional Wellbeing Survey	x	✓	This indicators identified overserved environmental change through a series of survey items that asks the extent to which participants observed various types of environmental problems in their region at the moment.

NATURAL HAZARD RESOURCES

INDICATOR	DATA SOURCE	INDIVIDUAL/ HOUSEHOLD MEASURE?	COMMUNITY- WIDE MEASURE?	DESCRIPTION
Emergency preparedness – household discussions	Regional Wellbeing Survey	✓	✓	This indicator is a survey item that asks participants whether they have discussed what to do in the event of a storm, flood, bushfire or other emergency with others in my household or neighbours
Community capacity to cope with challenges	Regional Wellbeing Survey	✓	✓	This indicator is a survey item that asks participants to rate to what extent their community copes well with challenges
Community cohesion after natural hazard events	Regional Wellbeing Survey	x	✓	This indicator is a survey measure that asks about whether recovering from disaster tension or disagreement between people in the community

EXPOSURE TO NATURAL HAZARDS

INDICATOR	DATA SOURCE	INDIVIDUAL/ HOUSEHOLD MEASURE?	COMMUNITY- WIDE MEASURE?	DESCRIPTION
Drought	NSW DPI Combined Drought Indicator (CDI)	✓	✓	This indicator incorporated multiple indexes to provide an overview of current seasonal conditions such as the Rainfall Index (RI), Soil Water Index (SWI), Pasture Growth Index (PGI), and Drought Direction Index (DDI).
Fire behaviour index	BOM Australia	✓	✓	This indicator identifies fire danger rating by calculating fire behaviour characteristics, based on weather and fuel information
Storm risk	BOM Australia	x	✓	This indicator tracks the number of storms per year (or per month) in NSW
Exposure to natural hazard	Regional Wellbeing Survey	✓	✓	This indicator is a survey item that asked participants whether they have personally experienced bushfire, smoke from bushfire, drought, flood, storm, earthquake and other natural hazards.
Impacts of natural hazards	Regional Wellbeing Survey	✓	✓	This indicator is a survey item that asks participants that have experienced a natural hazard in the last 5 years, whether they are still experiencing any ongoing impacts during the last 12 months.



APPENDIX C: INDICATOR THRESHOLDS

This Appendix summarises the thresholds recommended for the indicators included in the pilot *Early Insights* dashboard. A more detailed description of thresholds is provided for each indicator in the *Technical guide*.

RESILIENCE LEVEL THRESHOLDS

INDICATOR	RESILIENCE LEVEL	INDIVIDUAL/ HOUSEHOLD SCALE	COMMUNITY-WIDE MEASURE
Household financial stress	High resilience	No or very low financial stress (experienced none of the types of financial stress asked about)	<10% of community experienced two or more financial stress events in last year
	Moderate resilience	Low to moderate financial stress (experienced one of the financial stresses asked about)	10% to 20% of community experienced two or more financial stress events in last year
	Low resilience	High financial stress (experienced two or more of the financial stresses asked about)	>20% of community experienced two or more financial stress events in last year
Housing affordability	High resilience	Person agreed with statement (answered 5, 6 or 7 on 7-point scale)	>70% of residents find housing costs somewhat to highly affordable in local area
	Moderate resilience	Person neither agreed or disagreed with statement (answered 4 on 7-point scale)	50% to 70% of residents find housing costs somewhat to highly affordable in local area
	Low resilience	Person disagreed with statement (answered 1, 2 or 3 on 7-point scale)	<50% of residents find housing costs somewhat to highly affordable in local area
Living cost affordability	High resilience	Person agreed with statement (answered 5, 6 or 7 on 7-point scale)	>70% of residents find living costs somewhat to highly affordable in local area
	Moderate resilience	Person neither agreed or disagreed with statement (answered 4 on 7-point scale)	50% to 70% of residents find living costs somewhat to highly affordable in local area
	Low resilience	Person disagreed with statement (answered 1, 2 or 3 on 7-point scale)	<50% of residents find living costs somewhat to highly affordable in local area
Rental affordability Index	High resilience		An index score over 151.
	Moderate resilience		An index score between 121 and 150.
	Low resilience		An index score of 120 or lower.

INDICATOR	RESILIENCE LEVEL	INDIVIDUAL/ HOUSEHOLD SCALE	COMMUNITY-WIDE MEASURE
Job vacancies (Internet Vacancy Index)	High/moderate resilience	NA – not an indicator of individual/household resilience	Score between 81 and 200.
	Low resilience	NA – not an indicator of individual/household resilience	Score of 80 or lower for a period of 6 months or more (two quarters) OR score of 200 or more for a period of 6 months or more (two quarters), indicating that there is high demand for employment, something that can readily place strain on local resources due to influx of new residents and/or a high number of temporary workers.
Overdue rates and charges	High resilience		LGAs with RACO (%) of less than 5%
	Moderate resilience		LGAs with RACO (%) between 5% and 10%
	Low resilience		LGAs with RACO (%) of more than 10%
Psychological distress	High resilience	Low psychological distress, defined as K6 score of 5-13	<20% of the population are experiencing moderate to high levels of psychological distress
	Moderate resilience	Moderate distress, defined as K6 score of 14-18	20% to 30% of the population are experiencing moderate to high levels of psychological distress
	Low resilience	High distress, defined as K6 score of 19-30	>30% of the population are experiencing moderate to high levels of psychological distress
Personal wellbeing	High resilience	PWI score 80-100	>80% of the population have healthy levels of personal wellbeing
	Moderate resilience	PWI score 60-79	70% to 80% of the population have healthy levels of personal wellbeing
	Low resilience	PWI score <60	<70% of the population have healthy levels of personal wellbeing
Psychological resilience	High resilience	Score of 6.00 to 7.00	<10% of community with low levels of individual resilience
	Moderate resilience	Score of 4.00 to 5.99	Between 10% and 20% of community with low levels of individual resilience
	Low resilience	Score of 1.00 to 3.99	>20% of community with low levels of individual resilience

INDICATOR	RESILIENCE LEVEL	INDIVIDUAL/ HOUSEHOLD SCALE	COMMUNITY-WIDE MEASURE
School attendance	High resilience		School attendance rates of 94% or higher
	Moderate resilience		School attendance rate of 90% to 93%.
	Low resilience		School attendance rate below 90%.
Potentially avoidable deaths	High resilience		A rate of potentially avoidable deaths below 95 people per 100,000 population.
	Moderate resilience		A rate of potentially avoidable deaths between 95 and 105 deaths per 100,000 population.
	Low resilience		A rate of potentially avoidable deaths above 105 per 100,000 population.
Access to practical support from friends/ family	High resilience	Score of 6-7 (person indicates easy ability to access support)	>80% report that they can somewhat easily or easily access practical support from family/ friends
	Moderate resilience	Score of 4-5 (person indicates some ability to access support, but not finding it very easy to)	60% to 80% report that they can somewhat easily or easily access practical support from family/ friends
	Low resilience	Score of 1-3 (person indicates difficulty accessing support)	<60% report that they can somewhat easily or easily access practical support from family/ friends
Access to emotional support from friends/ family	High resilience	Score of 6-7 (person indicates easy ability to access support)	>90% report that they can somewhat easily or easily access emotional support from family/ friends
	Moderate resilience	Score of 4-5 (person indicates some ability to access support, but not finding it very easy to)	70% to 90% report that they can somewhat easily or easily access emotional support from family/ friends
	Low resilience	Score of 1-3 (person indicates difficulty accessing support)	<70% report that they can somewhat easily or easily access emotional support from family/ friends
Access to financial support from friends/ family	High resilience	Score of 6-7 (person indicates easy ability to access support)	>70% report that they can somewhat easily or easily access financial support from family/friends
	Moderate resilience	Score of 4-5 (person indicates some ability to access support, but not finding it very easy to)	50% to 70% report that they can somewhat easily or easily access financial support from family/friends
	Low resilience	Score of 1-3 (person indicates difficulty accessing support)	<50% report that they can somewhat easily or easily access financial support from family/friends

INDICATOR	RESILIENCE LEVEL	INDIVIDUAL/ HOUSEHOLD SCALE	COMMUNITY-WIDE MEASURE
Spending time with family and friends index	High resilience	Score of 5.50 – 7.00 (person indicates high levels of social connectedness)	>80% regularly connect with family and friends
	Moderate resilience	Score of 3.50-5.49 (person indicates moderate levels of social connectedness)	60% to 80% regularly connect with family and friends
	Low resilience	Score of 1.00-3.49 (person indicates low levels of social connectedness)	<60% regularly connect with family and friends
Community engagement - community events	High resilience	Score of 5-7 (person indicates high level of engagement in community events)	>60% regularly attend community events
	Moderate resilience	Score of 4 (person indicates moderate engagement)	40% to 60% regularly attend community events
	Low resilience	Score of 1-3 (person indicates low engagement in community events)	<40% regularly attend community events
Volunteering	High resilience	Score of 5-7 (person indicates high level of engagement in volunteering)	>80% of community engage in some volunteering in a typical year
	Moderate resilience	Score of 2-4 (person indicates some engagement in volunteering)	Between 70% and 80% of community engage in some volunteer activities in a typical year
	Low resilience	Score of 1 (person indicates no engagement in volunteering)	<70% of community engage in any volunteer activities
Telecommunications – mobile phone reception	High resilience	Score of 5-7	>80% report good access to mobile phone coverage in their local area
	Moderate resilience	Score of 4	60% to 80% report good access to mobile phone coverage in their local area
	Low resilience	Score of 1-3	<60% report good access to mobile phone coverage in their local area
Telecommunications – internet	High resilience	Score of 5-7	>80% report good access to high speed, reliable internet in their local area
	Moderate resilience	Score of 4	60% to 80% report good access to high speed, reliable internet in their local area
	Low resilience	Score of 1-3	<60% report good access to high speed, reliable internet in their local area

INDICATOR	RESILIENCE LEVEL	INDIVIDUAL/ HOUSEHOLD SCALE	COMMUNITY-WIDE MEASURE
Local roads	High resilience	Score of 5-7	>70% report having good access to high quality road networks in their local area
	Moderate resilience	Score of 4	50% to 70% report having good access to high quality road networks in their local area
	Low resilience	Score of 1-3	<50% report having good access to high quality road networks in their local area
Tradespeople	High resilience	Score of 5-7	>80% report having good access to tradespeople in their local area
	Moderate resilience	Score of 4	60% to 80% report having good access to tradespeople in their local area
	Low resilience	Score of 1-3	<60% report having good access to tradespeople in their local area
Professional services	High resilience	Score of 5-7	>80% report having good access to professional services (e.g. legal, accounting, finance) in their local area
	Moderate resilience	Score of 4	60% to 80% report having good access to professional services (e.g. legal, accounting, finance) in their local area
	Low resilience	Score of 1-3	<60% report having good access to professional services (e.g. legal, accounting, finance) in their local area
Local government asset renewal	High resilience		An average BIR ratio for last three years of more than 105%
	Moderate resilience		An average BIR ratio for last three years between 95% to 104%
	Low resilience		An average BIR ratio for last three years of less than 94%
Local government asset maintenance	High resilience		An average AMR ratio for last three years of more than 105%
	Moderate resilience		An average AMR ratio for last three years between 95% to 104%
	Low resilience		An average AMR ratio for last three years of less than 94%

INDICATOR	RESILIENCE LEVEL	INDIVIDUAL/ HOUSEHOLD SCALE		COMMUNITY-WIDE MEASURE	
		Metropolitan Fringe	Regional Town/City	Large Rural	Rural
Public halls	High resilience	>2.86 halls/ 10,000 pop	>4.26 halls/ 10,000 pop	>9.63 halls / 10,000 pop	>21.9 halls /10,000 pop
	Moderate resilience	Between 1.72 and 2.86/10,000 pop	Between 2.56 and 4.26 halls/ 10,000 pop	Between 5.77 and 9.63 halls /10,000 pop	Between 13.14 and 21.9 halls /10,000 pop
	Low resilience	<1.72 halls/ 10,000 pop	<2.56 halls / 10,000 pop	<5.77 halls / 10,000 pop	<13.14 halls /10,000 pop
Liveability of community	High resilience	Score of 5-7		>85% agree that they would recommend their community to others as a good place to live	
	Moderate resilience	Score of 4		Between 70% and 85% agree that they would recommend their community to others as a good place to live	
	Low resilience	Score of 1-3		<70% agree that they would recommend their community to others as a good place to live	
Perceptions of local crime levels	High resilience	Score of 1-3		<10% feel crime is a big problem in their community	
	Moderate resilience	Score of 4-5		10% to 29% feel crime is a big problem in their community	
	Low resilience	Score of 6-7		30% or more feel crime is a big problem in their community	
Confidence in local government	High resilience	Score of 5-7		>50% agree that their local government is able to help their community face challenges	
	Moderate resilience	Score of 4		Between 30% and 50% agree that their local government is able to help their community face challenges	
	Low resilience	Score of 1-3		<30% agree that their local government is able to help their community face challenges	
Confidence in local leadership	High resilience	Score of 5-7		>60% agree that 'Whatever the problem is, someone in this community takes the lead in sorting it out'	
	Moderate resilience	Score of 4		Between 40% and 60% agree that 'Whatever the problem is, someone in this community takes the lead in sorting it out'	
	Low resilience	Score of 1-3		<40% agree that 'Whatever the problem is, someone in this community takes the lead in sorting it out'	

INDICATOR	RESILIENCE LEVEL	INDIVIDUAL/ HOUSEHOLD SCALE	COMMUNITY-WIDE MEASURE
Effectiveness of local groups and organisations	High resilience	Score of 5-7	>70% agree that local groups and organisations in their areas are good at getting things done
	Moderate resilience	Score of 4	50% to 70% agree that local groups and organisations in their areas are good at getting things done
	Low resilience	Score of 1-3	<50% agree that local groups and organisations in their areas are good at getting things done
Local amenity – environment and surrounds	High resilience	Score of 5-7	>90% of community with high levels of satisfaction with local environment and surrounds
	Moderate resilience	Score of 4	Between 80% and 90% of community with high levels of satisfaction with local environment and surrounds
	Low resilience	Score of 1-3	<80% of community with high levels of satisfaction with local environment and surrounds
Local amenity – nature areas	High resilience	Score of 5-7	>90% of community who report that there are attractive natural places in their community
	Moderate resilience	Score of 4	Between 80% and 90% of community who report that there are attractive natural places in their community
	Low resilience	Score of 1-3	<80% of community who report that there are attractive natural places in their community
Availability of potable water	Under high stress		Less than and equal to 50 litres
	Essential access		50-100 litres
	Sufficient access		100-150 litres
	Great access		More than 150 litres
Air quality	Air quality is made of several variables and each of these variables has their own levels and thresholds. For more information on the thresholds see the <i>Technical guide</i> .		
Observed environmental change	High resilience	Score of 1-3	<20% of residents identify big environmental problems in their community
	Moderate resilience	Score of 4	20% to 40% of residents identify big environmental problems in their community
	Low resilience	Score of 5-7	>40% of residents identify big environmental problems in their community

INDICATOR	RESILIENCE LEVEL	INDIVIDUAL/ HOUSEHOLD SCALE	COMMUNITY-WIDE MEASURE
Emergency preparedness – household discussions	High resilience	Responded ‘Yes’ indicating higher level of preparedness.	>70% of community had discussions with others in the last year about what to do if an emergency occurs
	Moderate resilience	Responded ‘Sort of’	Between 40% and 70% of community had discussions with others in the last year about what to do if an emergency occurs
	Low resilience	Responded ‘No’ indicating lower level of preparedness	<40% of community had discussions with others in the last year about what to do if an emergency occurs
Community capacity to cope with challenges	High resilience	Score of 1-3	>75% of community who are confident their community copes well with challenges
	Moderate resilience	Score of 4	Between 60% and 75% of community who are confident their community copes well with challenges
	Low resilience	Score of 5-7	<60% of community who are confident their community copes well with challenges
Community cohesion after natural hazard events	High resilience	Score of 1-3	<40% of community who reported that recovering from disaster has caused tension or disagreement between community members
	Moderate resilience	Score of 4	Between 40% and 50% of community who reported that recovering from disaster has caused tension or disagreement between community members
	Low resilience	Score of 5-7	>50% of community who reported high levels of tension or disagreement between community members caused by disaster

INDICATOR	RESILIENCE LEVEL	INDIVIDUAL/ HOUSEHOLD SCALE	COMMUNITY-WIDE MEASURE
Drought (Combined Drought Indicator)	Intense Drought		All three indicators (rainfall, soil water, plant growth) are below the 5th percentile
	Drought		At least one indicator is below the 5th percentile
	Drought affected (intensifying)		At least one indicator is below the 30th percentile and the rainfall trend is negative over the past 90 days.
	Drought affected (weakening)		At least one indicator is below the 30th percentile and the rainfall trend is positive over the past 90 days.
	Recovering		All indicators are below the 50th percentile but above the 30th percentile
	Non-drought		At least one indicator is above the 50th percentile.
Fire Behaviour Index	No rating (< 12)	The Fire Behaviour Index threshold are the official ratings assigned to interpret the The Fine Scale of Fire Behavior (FBI), where higher FBI values indicate greater fire risk.	
	Moderate (12-23)		
	High (24-49)		
	Extreme (50-99)		
	Catastrophic (≥ 100)		
Storm risk	Establishing of resilience thresholds for this indicator to be included in the Pilot <i>Early Insights</i> dashboard was not feasible for this stage of the project. Storm activity is proposed as a simple count and tracking of the number of storms (all types) per year (or per month) for the NSW LGA. Thresholds to be explored as part of any future development.		
Exposure to natural hazard	Not exposed	Individual was not exposed to the hazard for the time period	
	Exposed	Individual was exposed to the hazard for the time period	
Impacts of natural hazards	High resilience	No (or little) ongoing impact within the last 12 months from exposure to a natural hazard experienced over the previous five years.	
	Moderate resilience	Moderate ongoing impact within the last 12 months from exposure to a natural hazard experienced over the previous five years.	
	Low resilience	Severe ongoing impact within the last 12 months from exposure to a natural hazard experienced over the previous five years.	

RESILIENCE CHANGE

INDICATOR	RESILIENCE CHANGE	COMMUNITY-WIDE MEASURE
Household financial stress	Resilience gain	% of population within LGA reporting moderate or low levels of financial distress has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population within an LGA with low levels of financial distress since the last reporting period (defined as change of $\pm 5\%$).
	Resilience loss	% of population within LGA with high levels of financial distress has increased by more than 5% over the reporting period
Housing affordability	Resilience gain	% of population within LGA reporting high or moderate levels of housing affordability increased by more than 5% over the reporting period.
	No change	No significant change in the % of population within an LGA reporting low levels of housing affordability over the reporting period (defined as change of $\pm 5\%$).
	Resilience loss	% of population within the LGA reporting low levels of housing affordability increased more than 5% over the reporting period
Living cost affordability	Resilience gain	% of population within LGA reporting high or moderate levels of living cost affordability increased by more than 5% over the reporting period.
	No change	No significant change in the % of population within an LGA reporting low levels of living cost affordability over the reporting period (defined as change of $\pm 5\%$).
	Resilience loss	% of population within the LGA reporting low levels of living cost affordability increased more than 5% over the reporting period
Rental affordability Index	Resilience gain	A gain of 2 points or more from previous year
	No change	Remaining within the range of +/- 2 from previous year.
	Resilience loss	A loss of 2 points or more from previous year
Job vacancies (Internet Vacancy Index)	Resilience gain	A gain of 10 points or more in the index that is sustained for a period of 6 months, and which does not result in the index exceeding 200 for a period of 6 months. If the index previously exceeded 250 for a period of 6 months or more, a decline of 20 or more points for a period of 6 months is considered a resilience gain.
	No change	Remaining within the range of 90-110.
	Resilience loss	Two situations can indicate resilience loss: <ul style="list-style-type: none"> When changing from an initial score that is below 200: Decline of 10 or more points that is sustained for 6 months or more When changing from an initial score that is above 200: Gain of 20 or more points, sustained for 6 months or more

INDICATOR	RESILIENCE CHANGE	COMMUNITY-WIDE MEASURE
Overdue rates and charges	Resilience gain	The proportion of current levels of RACO (%) compared to previous years in the LGA is more than 105%
	No change	The proportion of current levels of RACO (%) compared to previous years in the LGA is between 95% and 105%
	Resilience loss	The proportion of current levels of RACO (%) compared to previous years in the LGA is less than 95%
Psychological distress	Resilience gain	% of population within LGA reporting low or moderate levels of psychological distress increased by more than 5% over the reporting period.
	No change	No significant change in the % of population within an LGA reporting high levels of psychological distress over the reporting period (defined as change of $\pm 5\%$).
	Resilience loss	% of population within the LGA reporting high levels of psychological distress increased more than 5% over the reporting period
Personal wellbeing	Resilience gain	% of population moderate or high levels of wellbeing has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population with low levels of wellbeing over the reporting period (defined as change of $\pm 5\%$).
	Resilience loss	Proportion of population reporting low levels of wellbeing has increased by more than 5% over the reporting period
Psychological resilience	Resilience gain	% of population with moderate or high levels of individual resilience has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population with low levels of individual resilience over the reporting period (defined as change of less than $\pm 5\%$).
	Resilience loss	% of population with low levels of individual resilience has increased by more than 5% over the reporting period.
School attendance	Resilience gain	School attendance increased by more than 2% over the reporting period.
	No change	No significant change in school attendance, defined as change of less than $\pm 2\%$
	Resilience loss	School attendance decreased by more than 2% over the reporting period.
Potentially avoidable deaths	Resilience gain	Rate of potentially avoidable deaths has declined by 5 or more (as a rate per 100,000 population)
	No change	Rate of potentially avoidable deaths has changed by less than 5 (gain or loss, as a rate per 100,000 population)
	Resilience loss	Rate of potentially avoidable deaths has increased by 5 or more (as a rate per 100,000 population)
Access to practical support from friends/ family	Resilience gain	% of population with moderate or high levels of access to practical support has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population with low levels of access to practical support over the reporting period (defined as change of less than $\pm 5\%$).

INDICATOR	RESILIENCE CHANGE	COMMUNITY-WIDE MEASURE
	Resilience loss	Proportion of population with low levels of access to practical support has increased by more than 5% over the reporting period.
Access to emotional support from friends/ family	Resilience gain	% of population with moderate or high levels of access to support has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population with low levels of access to support over the reporting period (defined as change of less than $\pm 5\%$).
	Resilience loss	Proportion of population with low levels of access to support has increased by more than 5% over the reporting period.
Access to financial support from friends/ family	Resilience gain	% of population with moderate or high levels of access to support has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population with low levels of access to support over the reporting period (defined as change of less than $\pm 5\%$).
	Resilience loss	Proportion of population with low levels of access to support has increased by more than 5% over the reporting period.
Spending time with family and friends index	Resilience gain	% of population with moderate or high levels of connection to family and friends has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population with low levels of connection to family and friends over the reporting period (defined as change of less than $\pm 5\%$).
	Resilience loss	Proportion of population with low levels of connection to family and friends has increased by more than 5% over the reporting period.
Community engagement - community events	Resilience gain	% of population with moderate or high levels of community engagement has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population with low levels community engagement for the duration of the reporting period (defined as change of less than $\pm 5\%$).
	Resilience loss	Proportion of population with low levels of community engagement has increased by more than 5% over the reporting period.
Volunteering	Resilience gain	% of population with moderate to high levels of volunteering has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population with low levels of volunteering over the reporting period (defined as change of less than $\pm 5\%$).
	Resilience loss	Proportion of population with low levels of volunteering has increased by more than 5% over the reporting period.
Telecommunications – mobile phone reception	Resilience gain	% of population with moderate to high levels of access to mobile phone coverage has increased by more than 5% over the reporting period.
	No change	No significant change in the % of population with low levels of access to mobile phone coverage over the reporting period (defined as change of less than $\pm 5\%$).



INDICATOR	RESILIENCE CHANGE	COMMUNITY-WIDE MEASURE
	Resilience loss	% of population with low levels of mobile phone coverage has increased by more than 5% over the reporting period
Telecommunications – internet	Resilience gain	% of population with moderate to high access to reliable high-speed internet has increased by more than 5% over the reporting period
	No change	No significant change in the % of population with low access to reliable high-speed internet over the reporting period (defined as change of less than ±5%).
	Resilience loss	% of population with low access to reliable high-speed internet has increased by more than 5% over the reporting period
Local roads	Resilience gain	% of population with moderate to high levels of access to quality roads has increased by more than 5% over the reporting period
	No change	No significant change in the % of population with low levels of access to quality roads over the reporting period (defined as change of less than ±5%).
	Resilience loss	% of population with low levels of access to quality roads has increased by more than 5% over the reporting period
Tradespeople	Resilience gain	% of population with moderate to high levels of access to tradespeople has increased by more than 5% over the reporting period
	No change	No significant change in the % of population with low levels of access to tradespeople over the reporting period (defined as change of less than ±5%).
	Resilience loss	% of population with low levels of access to tradespeople has increased by more than 5% over the reporting period
Professional services	Resilience gain	% of population with moderate to high levels of access to professional services has increased by more than 5% over the reporting period
	No change	No significant change in the % of population with low levels of access to professional services over the reporting period (defined as change of less than ±5%).
	Resilience loss	% of population with low levels of access to professional services has increased by more than 5% over the reporting period
Local government asset renewal	Resilience gain	The proportion of current levels of BIRR compared to previous years in the LGA is more than 105%
	No change	The proportion of current levels of BIRR compared to previous years in the LGA is between 95% and 105%
	Resilience loss	The proportion of current levels of BIRR compared to previous years in the LGA is less than 95%
Local government asset maintenance	Resilience gain	The proportion of current levels of AMR compared to previous years in the LGA is more than 105%
	No change	The proportion of current levels of AMR compared to previous years in the LGA is between 95% and 105%
	Resilience loss	The proportion of current levels of AMR compared to previous years in the LGA is less than 95%
Public halls	Resilience gain	The proportion of current levels of public halls in the LGA compared to levels recorded at the beginning of the reporting period is more than 105%

INDICATOR	RESILIENCE CHANGE	COMMUNITY-WIDE MEASURE
	No change	The proportion of current levels of public halls in the LGA compared to levels recorded at the beginning of the reporting period is between 95% and 105%
	Resilience loss	The proportion of current levels of public halls in the LGA compared to levels recorded at the beginning of the reporting period is less than 95%
Liveability of community	Resilience gain	% of population within an LGA who report moderate or high confidence that community is a good place to live increased by more than 5% over the reporting period
	No change	No significant change in the % of population who report low levels of confidence that community is a good place to live over the reporting period (defined as change of less than $\pm 5\%$)
	Resilience loss	% of population within an LGA who report low levels of confidence that community is a good place to live has increased by more than 5% over the reporting period
Confidence in local government	Resilience gain	% of population with moderate to high levels of perceived functioning of local government has increased by more than 5% over the reporting period
	No change	No significant change in the % of population with low levels of perceived functioning of local government over the reporting period (defined as change of less than $\pm 5\%$).
	Resilience loss	% of population with low levels of perceived functioning of local government has increased by more than 5% over the reporting period
Confidence in local leadership	Resilience gain	% of population with moderate to high levels of perceived community leadership has increased by more than 5% over the reporting period
	No change	No significant change in the % of population with low levels of perceived community leadership over the reporting period (defined as change of less than $\pm 5\%$).
	Resilience loss	% of population with low levels of perceived community leadership has increased by more than 5% over the reporting period
Effectiveness of local groups and organisations	Resilience gain	% of population within an LGA who report moderate or high levels of perceived functioning of community groups has increased by more than 5% over the reporting period
	No change	No significant change in the % of population who report low levels of perceived functioning of community groups over the reporting period (defined as change of less than $\pm 5\%$)
	Resilience loss	% of population within an LGA who report low levels of perceived functioning of community groups has increased by more than 5% over the reporting period
Local amenity – environment and surrounds	Resilience gain	% of population with high levels of satisfaction with environment and surrounds has increased by more than 5% during the reporting period
	No change	No significant change in the % of population with high levels of satisfaction with environment and surrounds during the reporting period (defined as change of less than $\pm 5\%$).
	Resilience loss	% of the population with low or moderate levels of satisfaction with environment and surrounds has increased by more than 5% over the reporting period

INDICATOR	RESILIENCE CHANGE	COMMUNITY-WIDE MEASURE
Local amenity – nature areas	Resilience gain	% of population who report that there are attractive natural places in their community has increased by more than 5% during the reporting period
	No change	No significant change in the % of population who report that there are attractive natural places in their community during the reporting period (defined as change of less than ±5%).
	Resilience loss	% of the population who disagree that there are attractive natural places in their community has increased by more than 5% over the reporting period
Availability of potable water	Establishing change thresholds for this indicator to be included in the Pilot <i>Early Insights</i> dashboard was not feasible for this stage of the project. Thresholds to be explored as part of any future development.	
Air quality	Establishing change thresholds for this indicator to be included in the Pilot <i>Early Insights</i> dashboard was not feasible for this stage of the project. Thresholds to be explored as part of any future development.	
Observed environmental change	Resilience gain	Proportion of respondents identifying “A big problem” has decreased by more than 5% over the reporting period.
	No change	No significant change since the last reporting period (defined as change of ± 5%) in the proportion of respondents identifying “A big problem”.
	Resilience loss	Proportion of respondents identifying “A big problem” has increased by more than 5% over the reporting period.
Emergency preparedness – household discussions	Resilience gain	% of population with moderate to high levels of emergency preparedness has increased by more than 5% over the reporting period
	No change	No significant change in the % of population with low levels of emergency preparedness over the reporting period (defined as change of less than ±5%).
	Resilience loss	% of population with low levels of emergency preparedness has increased by more than 5% over the reporting period
Community capacity to cope with challenges	Resilience gain	% of population within an LGA who report moderate or high levels of perceived community coping has increased by more than 5% over the reporting period
	No change	No significant change in the % of population who report low levels of perceived community coping over the reporting period (defined as change of less than ±5%)
	Resilience loss	% of population within an LGA who report low levels of perceived community coping has increased by more than 5% over the reporting period
Community cohesion after natural hazard events	Resilience gain	% of population with low levels of community disaster tension has increased by more than 5% over a given period of time.
	No change	No significant change in the % of population with low levels of community disaster tension since the last reporting period (defined as change of less than ±5%).

INDICATOR	RESILIENCE CHANGE	COMMUNITY-WIDE MEASURE
	Resilience loss	Proportion of population with moderate and low levels has decreased by more than 5% over the period of time being examined.
Drought	Establishing change thresholds for this indicator to be included in the Pilot <i>Early Insights</i> dashboard was not feasible for this stage of the project. Thresholds to be explored as part of any future development.	
Fire behaviour index	Establishing change thresholds for this indicator to be included in the Pilot <i>Early Insights</i> dashboard was not feasible for this stage of the project. Thresholds to be explored as part of any future development.	
Storm risk	Establishing change thresholds for this indicator to be included in the Pilot <i>Early Insights</i> dashboard was not feasible for this stage of the project. Thresholds to be explored as part of any future development.	
Exposure to natural hazard	Resilience gain	Proportion of respondents not exposed to a hazard within the last five years (" No ") has increased by more than 0.05 over the reporting period.
	No change	No significant change since the last reporting period (defined as change of ± 0.05) in the proportion of respondents exposed to a hazard within 5 years (" Yes ").
	Resilience loss	% of respondents exposed to a hazard within the last five years (" Yes ") has increased by more than 0.05 over the reporting period.
Impacts of natural hazards	Setting a threshold for the change in resilience for impacts of natural hazards is not simple. A 5% increase/decrease in severe ongoing impacts could be linked to a loss/gain in resilience. So could a larger percentage change in moderate ongoing impact. Potentially, a weighted score could be calculated based on the proportion in each category and a threshold of change then assigned to that score. What these thresholds are is subjective and uncertain but could be explored with potential users of the EWS tool during the PoC workshops with stakeholders. For now, change in the index can be tracked by storing the data for each period and plotting the distribution of impact levels each period using (e.g.) a cumulative bar chart.	



APPENDIX D: SURVEY TOOL

This Appendix provides the rapid survey tool developed to enable measurement of indicators identified as of high priority for understanding change in resilience, but for which there is limited or no existing collection of data in regular time series or at small geographic scales.

EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES: RAPID SURVEY TOOL AND DATA GUIDE, JANUARY 2024.

DATA GUIDE

The section below provides an overview of the survey questions used to collate data that can be interpreted as early warning signals for resilience loss. The proposed survey questions are based on the proposed measures outlined in Table 30 of the 'Sharing Early Insights for More Resilient Communities' Stage 1 report. The relevant indicators that each question/s may provide insight into are provided.

Some questions are current/existing measures that have been included in previous waves of the Regional Wellbeing Survey, while others are proposed new measures to be included for the first time in 2023. Where available and appropriate existing measures drawn from the literature have been utilised to inform the design of questions/measures. Where we have not been able to identify suitable existing measures, survey questions have been designed using evidence-based principles of survey/item design.

Indicator: Inter-community social resources, amenity

WHAT ARE YOUR VIEWS ABOUT THE COMMUNITY YOU LIVE IN?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
This community has a bright future	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel proud to live in this community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There's good community spirit around here	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like the environment and surrounds I live in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This is a safe place to live	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There are attractive buildings/homes in my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There are attractive natural places in my community e.g. parks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Inter-community social resources

WHAT ARE YOUR VIEWS ABOUT THE COMMUNITY YOU LIVE IN?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
There are fewer services available in my community compared to other nearby communities e.g. health, social support services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If my community experiences problems, nearby communities provide support to help	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

WHAT ARE YOUR VIEWS ABOUT THE COMMUNITY YOU LIVE IN?

STRONGLY DISAGREE

STRONGLY AGREE

My community gets less opportunities and funding compared to other nearby communities

Indicator: Crime and safety

HOW SAFE DO YOU FEEL IN THE COMMUNITY YOU LIVE IN?

VERY UNSAFE

UNSAFE

NEITHER SAFE OR UNSAFE

SAFE

VERY SAFE

NA

How safe do you feel if you are home alone at night?

How safe do you feel walking alone in your neighbourhood DURING THE DAY e.g. on streets near where you live?

How safe do you feel walking alone in your neighbourhood AT NIGHT e.g. on streets near where you live?

How safe do you feel when you are at work?

Indicator: Liveability and amenity

TO WHAT EXTENT ARE THE FOLLOWING PROBLEMS/CHALLENGES IN YOUR COMMUNITY AT THE MOMENT?

NOT A PROBLEM

VERY BIG PROBLEM

1 2 3 4 5 6 7 DON'T KNOW

Domestic violence

Drug abuse e.g. ice

Alcohol abuse

Crime

Indicator: Crime and safety

WHAT ARE YOUR VIEWS ABOUT HOW THE COMMUNITY YOU LIVE IN IS CHANGING?

GETTING WORSE

GETTING BETTER

1 2 3 4 5 6 7 DON'T KNOW

The liveability of this community is...

The local landscape and surrounds in this community are...

Indicator: Liveability and amenity

HOW GOOD OR POOR ARE THE FOLLOWING THINGS IN YOUR LOCAL REGION AT THE MOMENT?	VERY POOR					VERY GOOD		
	1	2	3	4	5	6	7	DON'T KNOW
Cleanliness of public spaces including parks, sidewalks and public toilets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Availability of good local cafes/restaurants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Liveability

HOW ARE YOUR LOCAL ECONOMY, GOVERNMENT AND COMMUNITY GROUPS GOING AT THE MOMENT?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
I would recommend my community to others as a good place to live	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If I could, I would shift to live in another community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Social cohesion

WHAT ARE YOUR VIEWS ABOUT HOW THE COMMUNITY YOU LIVE IN IS CHANGING?	GETTING WORSE					GETTING BETTER		
	1	2	3	4	5	6	7	DON'T KNOW
The friendliness of this community is...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Social cohesion

WHAT'S YOUR COMMUNITY LIKE FOR YOU?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
I feel welcome here	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel part of my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel like an outsider here	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Some groups in this community aren't made to feel welcome	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Social cohesion

HOW GOOD OR POOR ARE THE FOLLOWING THINGS IN YOUR LOCAL REGION AT THE MOMENT?	VERY POOR					VERY GOOD		
	1	2	3	4	5	6	7	DON'T KNOW
Friendliness of the community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Social cohesion

HOW ARE YOUR LOCAL ECONOMY, GOVERNMENT AND COMMUNITY GROUPS GOING AT THE MOMENT?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
This community copes pretty well when faced with challenges	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Self-rated access to social support

AT THE MOMENT, HOW DIFFICULT OR EASY IS IT FOR YOU TO ACCESS SUPPORT FOR YOURSELF IF YOU NEED TO?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
Practical help from family or friends e.g. help with household jobs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Emotional support from family or friends e.g. people to talk to if you are having a difficult time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Financial support from family or friends e.g. a loan if you need it in an emergency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Standard of living and real estate availability and affordability

TO WHAT EXTENT ARE THE FOLLOWING PROBLEMS/CHALLENGES IN YOUR COMMUNITY AT THE MOMENT?	NOT A PROBLEM					VERY BIG PROBLEM		
	1	2	3	4	5	6	7	DON'T KNOW
Lack of affordable, quality housing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of affordable groceries and goods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Standard of living and real estate availability and affordability

HOW ARE YOUR LOCAL ECONOMY, GOVERNMENT AND COMMUNITY GROUPS GOING AT THE MOMENT?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
Housing costs are affordable here e.g. rent, house prices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other living costs are affordable here e.g. food, petrol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Real estate availability and affordability

HOW GOOD OR POOR ARE THE FOLLOWING THINGS IN YOUR LOCAL REGION AT THE MOMENT?	VERY POOR					VERY GOOD		
	1	2	3	4	5	6	7	DON'T KNOW
Availability of housing to rent or buy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Economic activity

TO WHAT EXTENT ARE THE FOLLOWING PROBLEMS/CHALLENGES IN YOUR COMMUNITY AT THE MOMENT?	NOT A PROBLEM					VERY BIG PROBLEM		
	1	2	3	4	5	6	7	DON'T KNOW
Lack of job opportunities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
People shifting away from the area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Economic activity

HOW ARE YOUR LOCAL ECONOMY, GOVERNMENT AND COMMUNITY GROUPS GOING AT THE MOMENT?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
Local businesses in this region are doing pretty well at the moment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There are plenty of jobs available around here at the moment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Economic activity

WHAT ARE YOUR VIEWS ABOUT HOW THE COMMUNITY YOU LIVE IN IS CHANGING?	GETTING WORSE					GETTING BETTER		
	1	2	3	4	5	6	7	DON'T KNOW
The local economy is...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Income/prosperity

In 2022-23, about how much was your household income before tax? Select one	<input type="radio"/> Negative or nil income	<input type="radio"/> \$62,400-77,999
This includes income earned by everyone in your household. Include income from government pensions, investments/dividends, and paid work. The categories below may look odd – they let us compare our survey results to those from the national census, so we can't change them.	<input type="radio"/> \$1-10,399	<input type="radio"/> \$78,000-103,999
	<input type="radio"/> \$10,400-20,799	<input type="radio"/> \$104,000-124,999
	<input type="radio"/> \$20,800-31,199	<input type="radio"/> \$125,000-155,999
	<input type="radio"/> \$31,200-41,599	<input type="radio"/> \$156,000-207,999
	<input type="radio"/> \$41,600-51,999	<input type="radio"/> \$208,000-259,999
	<input type="radio"/> \$52,000-62,399	<input type="radio"/> \$260,000 or more
	Given your current needs and financial responsibilities, would you say that you and your family are... Select one	<input type="radio"/> Very poor
	<input type="radio"/> Poor	<input type="radio"/> Very comfortable
	<input type="radio"/> Just getting along	<input type="radio"/> Prosperous

Indicator: Possession of financial assets

SUPPOSE YOU NEEDED TO RAISE ENOUGH MONEY TO COVER THE COST OF AN EMERGENCY. WOULD YOU AND MEMBERS OF YOUR HOUSEHOLD BE ABLE TO DO THE FOLLOWING?	YES EASILY	YES, BUT WOULD BE DIFFICULT	NO
Raise \$2,000 within 1-2 weeks for an emergency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Raise \$10,000 within a month for an emergency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Raise \$50,000 within a year for an emergency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Financial stress

HAVE ANY OF THE FOLLOWING HAPPEN TO YOU BECAUSE YOU DIDN'T HAVE ENOUGH MONEY?	IN THE LAST MONTH	AT SOME POINT IN THE LAST YEAR (BUT NOT IN THE LAST MONTH)	THIS HASN'T HAPPENED IN THE LAST YEAR
Had to delay or cancel non-essential purchases e.g. holiday, going to a restaurant or movie, buying clothes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Could not pay bills on time e.g. electricity, rent, gas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Went without meals, or was unable to heat or cool home	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Asked for financial help from friends or family	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Financial stress

Currently, how challenging or easy do you find it to pay your rent or mortgage? Select one

- Very challenging
- Somewhat challenging
- Neither challenging or easy
- Somewhat easy
- Very easy
- Not applicable – I pay no rent or mortgage

Compared to this time last year, is it easier or harder to pay your rent or mortgage? Select one

- More challenging than last year
- About the same as last year
- Easier than last year
- Not applicable – I pay no rent or mortgage

What best describes your current credit card debt over the last 3 months? Select all that apply

- I don't have any credit cards
- I pay off my credit card/s before interest is charged
- I find it hard to pay off much of what is owing on my credit card/s
- I reach my credit card limit most weeks

Indicator: Financial stress

DURING THE LAST 12 MONTHS, WAS THERE A TIME WHEN, BECAUSE OF LACK OF MONEY OR OTHER RESOURCES, THE FOLLOWING HAPPENED?

YES, THIS HAPPENED IN LAST 12 MONTHS

NO, NOT IN THE LAST 12 MONTHS

DON'T KNOW

You were worried you would not have enough food to eat?

You were unable to eat healthy and nutritious food?

You ate only a few kinds of foods?

You had to skip a meal?

You ate less than you thought you should?

Your household ran out of food?

You were hungry but did not eat?

You went without eating for a whole day?

You could not afford to buy all the food on your normal grocery list?

You had to change brands or buy food on special to afford your normal grocery list?

Indicator: Financial stress

HAVE ANY OF THE FOLLOWING HAPPENED TO YOU IN THE LAST 12 MONTHS?

UNSURE

YES, TO SOME EXTENT OR A FEW TIMES

YES, A LOT OR MANY TIMES

NO

Household expenses increased more rapidly than household income

Didn't go to a social event because I needed to save money e.g. you might have cancelled meeting a friend at a cafe

Had difficulty affording the groceries I usually buy

Did not heat or cool home sometimes in order to save money



HAVE ANY OF THE FOLLOWING HAPPENED TO YOU IN THE LAST 12 MONTHS?	UNSURE	YES, TO SOME EXTENT OR A FEW TIMES	YES, A LOT OR MANY TIMES	NO
Took on extra debt to cover normal expenses e.g. you increased credit card debt, took out a new loan or accessed a payday loan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pawned assets to access cash for necessities or payment of bills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Had difficulty affording medications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cancelled or reduced services I previously used such as house cleaning, gardener, transport help	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Delayed seeking medical appointments for myself due to difficulty affording the cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stopped or reduced insurance coverage due to difficulty affording it e.g. for car, house	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Requested a delayed payment or payment plan from a provider (for example rates, tax bills, utility bills, loan/mortgage repayments or rent)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Asked bank for support to cope e.g. through reducing or deferring payments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applied to access my superannuation in order to help cover household expenses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sought assistance from a charity such as a food bank, Salvation Army, St Vincent de Paul, community organisation, etc	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Access to insurance

DO YOU CURRENTLY HAVE HOME AND CONTENTS INSURANCE COVERAGE FOR DIFFERENT TYPES OF DISASTER?	NO	YES, PARTIAL COVERAGE	YES, FULL COVERAGE	NA	UNSURE
Do you currently have an insurance policy covering contents of your home if they are damaged by a disaster?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do you currently have an insurance policy covering damage to the structure of your property in a disaster?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Health services access

HOW GOOD OR POOR ARE THE FOLLOWING THINGS IN YOUR LOCAL REGION AT THE MOMENT?	VERY POOR					VERY GOOD		
	1	2	3	4	5	6	7	DON'T KNOW
Access to general health services e.g. GPs, drop-in centres	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to mental health services e.g. psychologist, psychiatrist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to specialist health services (other than mental health)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Grocery/domestic goods supply

HOW GOOD OR POOR ARE THE FOLLOWING THINGS IN YOUR LOCAL REGION AT THE MOMENT?	VERY POOR					VERY GOOD		
	1	2	3	4	5	6	7	DON'T KNOW
Availability of fresh fruit and vegetables	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Affordability of groceries/household goods at local shops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Transport infrastructure, telecommunications infrastructure and energy

HOW GOOD OR POOR ARE THE FOLLOWING THINGS IN YOUR LOCAL REGION AT THE MOMENT?	VERY POOR					VERY GOOD		
	1	2	3	4	5	6	7	DON'T KNOW
Mobile phone reception	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to high speed, reliable internet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of local roads	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to public transport e.g. taxis, buses, trains	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to reliable and suitable electricity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Telecommunications infrastructure

HOW OFTEN HAS THE FOLLOWING HAPPENED TO YOU IN THE LAST 12 MONTHS?	DAILY OR ALMOST DAILY	AT LEAST ONCE A WEEK	AT LEAST ONCE A MONTH	ONCE EVERY 2-3 MONTHS	ONCE OR TWICE IN THE LAST 12 MONTHS	NEVER/ALMOST NEVER
I was unable to access internet at home due an outage or very poor coverage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was unable to talk on my mobile phone due to loss of mobile phone coverage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My home lost electricity supply (blackout, brownout)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Financial/professional services and education services

HOW OFTEN DO YOU DO THE FOLLOWING THINGS (NO MATTER WHERE THE ACTIVITIES OCCUR)?	VERY POOR					VERY GOOD			DON'T KNOW
	1	2	3	4	5	6	7		
Access to banking and financial services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Availability of tradespeople e.g. builders, plumbers, electricians	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Professional services e.g. accountants, lawyers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of local schools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Leadership

WHEN YOUR COMMUNITY EXPERIENCES CHALLENGES, DO YOU TRUST THE FOLLOWING TO BE THERE TO HELP?	NOT AT ALL					VERY MUCH SO			DON'T KNOW
	1	2	3	4	5	6	7		
The Australian government	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My state/territory	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My local government	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local community and charity groups	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
National charity groups and organisations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

WHEN YOUR COMMUNITY EXPERIENCES CHALLENGES, DO YOU TRUST THE FOLLOWING TO BE THERE TO HELP?

NOT AT ALL

VERY MUCH SO

Local businesses

Indicator: Leadership

HOW GOOD OR POOR ARE THE FOLLOWING THINGS IN YOUR LOCAL REGION AT THE MOMENT?

VERY POOR

VERY GOOD

1

2

3

4

5

6

7

DON'T KNOW

Local government services

Indicator: Engagement with social groups/organisations

HOW GOOD OR POOR ARE THE FOLLOWING THINGS IN YOUR LOCAL REGION AT THE MOMENT?

NEVER OR ALMOST NEVER

ALL THE TIME

1

2

3

4

5

6

7

I take part in sports groups or teams

I attend meetings/events held by local clubs/groups e.g. Lions, CWA

I attend community events such as farmers markets, community festivals

Indicator: Wellbeing and social networks (satisfaction with personal relationships)

THINKING ABOUT YOUR OWN LIFE AND PERSONAL CIRCUMSTANCES, HOW SATISFIED ARE YOU WITH THE FOLLOWING?

COMPLETELY DISSATISFIED

COMPLETELY SATISFIED

1

2

3

4

5

6

7

8

9

10

Your life as a whole

Your standard of living

Your health

What you are currently achieving in life

Your personal relationships

THINKING ABOUT YOUR OWN LIFE AND PERSONAL CIRCUMSTANCES, HOW SATISFIED ARE YOU WITH THE FOLLOWING?

COMPLETELY DISSATISFIED

COMPLETELY SATISFIED

How safe you feel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feeling part of your community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Your future security	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Your work (if you are in paid work)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Mental health

IN THE LAST FOUR WEEKS, HOW OFTEN HAVE YOU FELT...

NONE OF THE TIME

A LITTLE OF THE TIME

SOME OF THE TIME

MOST OF THE TIME

ALL OF THE TIME

Nervous?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hopeless?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Restless or fidgety?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Depressed?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
That everything was an effort?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Worthless?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Personal psychological resources

HOW MUCH DO YOU AGREE OR DISAGREE WITH THE FOLLOWING STATEMENTS?

STRONGLY DISAGREE

STRONGLY AGREE

	1	2	3	4	5	6	7	N/A
I am confident I can achieve the things I want in life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am confident I can achieve the things I want in my work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Personal psychological resources

HOW MUCH DO YOU AGREE OR DISAGREE WITH THE FOLLOWING STATEMENTS?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	N/A
I tend to bounce back quickly after hard times	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a hard time making it through stressful events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It does not take me long to recover from a stressful event	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It is hard for me to snap back when something bad happens	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I usually come through difficult times with little trouble	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I tend to take a long time to get over set-backs in my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Overall health

HOW WOULD YOU RATE YOUR GENERAL HEALTH? SELECT ONE

Excellent Very good Good Fair Poor

Indicator: Healthy behaviours

DURING THE LAST MONTH, HOW LONG DOES IT TAKE YOU TO FALL ASLEEP, AND HOW MANY HOURS OF SLEEP DID YOU TYPICALLY GET?

During the last month, how long (in minutes) has it usually taken you to fall asleep? _____ minutes (online dropdown)

During the last month, how many hours of actual sleep did you typically get at night (this may be different than the number of hours you spend in bed)? _____ hours per night (online dropdown)

Indicator: Healthy behaviours

DO YOU SMOKE OR VAPE NICOTINE PRODUCTS?	CIGARETTES, CIGARS OR PIPES		E-CIGARETTES	
	YES	NO	YES	NO
Do you currently smoke/vape?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have you ever smoked/vaped regularly, that is at least once a day?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have you smoked/vaped these 100 or more times in your entire life?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Healthy behaviours

How often do you usually drink alcohol in a typical week?	<input type="radio"/> Don't drink alcohol <input type="radio"/> Occasionally (less than once a week) <input type="radio"/> Some days <input type="radio"/> Most days
In the past four weeks have you had more than 4 standard drinks on one or more occasions?	<input type="radio"/> Yes <input type="radio"/> No
<p><i>Alcoholic drinks are measured in terms of a "standard drink". A standard drink is equal to 1 middy of full-strength beer, 1 schooner of light beer, 1 small glass of wine or 1 pub-sized nip of spirits.</i></p>	

Indicator: Healthy behaviours

DURING THE LAST WEEK, HOW MANY HOURS DID YOU SPEND ON EACH OF THE FOLLOWING ACTIVITIES?	NONE	SOME BUT LESS THAN 1 HOUR	MORE THAN 1 HOUR BUT LESS THAN 3 HOURS	3 HOURS OR MORE
Physical exercise such as swimming, jogging, aerobics, football, tennis, gym workout etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cycling, including cycling to work and during leisure time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking, including walking to work, shopping, for pleasure etc	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Housework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gardening/DIY	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Healthy behaviours

HAVE YOU DONE ANY OF THE FOLLOWING?	YES	NO	N/A
Had a dental check up in the last year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Had a breast screen in the last two years (if applicable)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Had a bowel screen in the last two years(if applicable)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Demographics

Do you identify as... Select one

Female

Male

Other e.g. non- binary, gender fluid, inter-gender, no gender

Prefer not to answer

Don't know

How old are you? Years: _____

Are you of Aboriginal or Torres Strait Islander origin? Select all that apply

No Yes, Aboriginal Yes, Torres Strait Islander

How would you describe yourself? Select one

Australian-born

Born overseas (please specify country) _____

If born overseas: What year did you arrive in Australia to live?

Do you usually speak a language other than English at home?

Yes (please specify) _____

No

Are you renting, paying off a mortgage, or do you/ your family own your home outright?

I am 'couchsurfing' – staying temporarily with others

I am renting

I have a house with a mortgage

I own my house outright (or own it with partner/other person)

I live in my family's home without paying rent

Is the home you live in... Select one

House (freestanding)

Townhouse

Unit/apartment

Other e.g. caravan, tent, temporary building (please describe below)

Which best describes your household?
Select one

- Sole person household
- Couple only household
- Single parent with children household
- Couple parent with children household
- Share or group household
- Other (please specify)

Do you identify as any of the following?
Select one

- Straight (heterosexual)
- LGBTIQA+
- Don't know
- Prefer not to answer

Which best describes you at the moment?
Select one

- Never married
- Married or de facto
- Divorced or separated
- Widowed

Have you completed any of the following
formal qualifications? Select ALL that apply

- Year 12 of high school or equivalent
 - Certificate or diploma from TAFE
 - University degree (undergraduate or postgraduate)
 - None of these
-

Indicator: Employment

Which of the following describes your
situation right now? Select ALL that apply

- Self-employed
 - I have full-time paid work
 - I have part-time paid work
 - I have casual paid work
 - I have seasonal work e.g. fruit picking
 - Unemployed & looking for work
 - Care for dependent child/children
 - Care for person/people with disability, physical or mental illness or frailty, drug or alcohol dependency, or other chronic condition
 - Retired
 - Studying part-time or full-time
 - Other (please describe below)
-

Are you a business owner/co-owner?

- No
- Yes, own or co-own a business which has no employees (you run it yourself with no help, or you and a partner run it with no other employees)
- If yes, do you earn more than 50% of your income from this business? Yes No
- Yes, own or co-own a business which has 1-4 employees
- Yes, own or co-own a business with 5-19 employees
- Yes, own or co-own a business with 20 or more employees
-

Indicator: Employment

During the last month, how many hours have you worked each week? If your work hours have varied each week, please give the average hours worked per week

- None – haven't had any work in the last four weeks
- Less than 10 hours a week
- 10-14 hours a week
- 15-19 hours a week
- 20-24 hours a week
- 25-29 hours a week
- 30-34 hours a week
- 35-39 hours a week
- 40-44 hours a week
- 45-49 hours a week
- 50-54 hours a week
- 55-59 hours a week
- 60 or more hours a week
-

What is your primary job?
Please list your job/s e.g. farmer, teacher

Job type/s: _____

Indicator: Employment

Do you do any work on a farm or agricultural enterprise, whether paid or unpaid, or as your main or secondary job?

- Yes, unpaid work
- Yes, I work on a farm for a share of the returns (e.g. as owner/part-owner)
- Yes, I work on a farm as a salaried employee (you receive a regular wage/salary)
- No
-

Displayed to those that select any of the three 'yes' options for working on a farm above.

People working in agriculture (paid or unpaid) often do many types of work.

Does your farming work involve any of the following?

Select ALL that apply

- I own or part-own a farm business
- I manage or co-manage a farm business
- I do administration work (e.g. the books) for a farm business
- I work on a farm, but don't help manage it e.g. farmhand
- I work in agricultural contracting
- I do other agriculture-related work (please describe below)

Indicator: Volunteering

HOW OFTEN DO YOU DO THE FOLLOWING THINGS (NO MATTER WHERE THE ACTIVITIES OCCUR)?

NEVER OR ALMOST NEVER

ALL THE TIME

1 2 3 4 5 6 7 DON'T KNOW

I volunteer in my local community e.g. for groups like fire brigades, sports clubs, school canteen, meals on wheels, festivals

-

Indicator: Volunteering

ARE YOU A VOLUNTEER? SELECT ONE

In the last 12 months, I have volunteered my time unpaid. This can include anything from being in a volunteer fire brigade to helping out at a sports club or school canteen

I used to volunteer, but have not done so in the last 12 months

I have never volunteered my time for a group or organisation

Indicator: Volunteering

THINKING ABOUT YOUR MOST RECENT PAID AND/OR VOLUNTEER WORK, TO WHAT EXTENT DO YOU AGREE OR DISAGREE WITH THE FOLLOWING?

STRONGLY DISAGREE

STRONGLY AGREE

1 2 3 4 5 6 7 DON'T KNOW

If I need a break, it's easy to hand over my duties to another person

-

There's no-one who can take on any of my workload

-

THINKING ABOUT YOUR MOST RECENT PAID AND/OR VOLUNTEER WORK, TO WHAT EXTENT DO YOU AGREE OR DISAGREE WITH THE FOLLOWING?

	STRONGLY DISAGREE					STRONGLY AGREE		
I always find new and interesting aspects in my work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There are days when I feel tired before I start work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More and more often, I talk about my work in a negative way	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
After work, I need more time than in the past to relax and feel better	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can tolerate the pressure of my work very well	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lately, I tend to think less at work and do my job almost mechanically	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I find my work to be a positive challenge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When I am working, I often feel emotionally drained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Over time, one can become disconnected from this type of work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
After working, I have enough energy for my leisure activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sometimes I feel physically ill when I think about my work tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
After my work, I usually feel worn out and weary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This is the only type of work that I can imagine myself doing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Usually, I can manage the amount of my work I have to do well	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel more and more engaged in my work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When I work, I usually feel energized	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Perceived environmental health

ARE ANY OF THE FOLLOWING PROBLEMS FOR THE HEALTH OF THE ENVIRONMENT IN YOUR LOCAL REGION AT THE MOMENT?

	NOT A PROBLEM					VERY BIG PROBLEM		
	1	2	3	4	5	6	7	DON'T KNOW
Environmental degradation in general	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Salinity (in soil or waterways)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water quality problems other than salinity, in rivers, lakes or waterways	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

ARE ANY OF THE FOLLOWING PROBLEMS FOR THE HEALTH OF THE ENVIRONMENT IN YOUR LOCAL REGION AT THE MOMENT?	NOT A PROBLEM				VERY BIG PROBLEM			
Soil erosion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor soil health other than soil erosion e.g. soil compaction, loss of soil structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feral animals e.g. pigs, goats, wild dogs, rabbits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pest fish species e.g. carp	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Invasive weeds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loss of vegetation (trees, shrubs)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Declining numbers of native fish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Declining numbers of some native animals or birds (other than fish)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Past natural hazard experience

HAVE YOU PERSONALLY EXPERIENCED ANY OF THE FOLLOWING, WHETHER IT HAPPENED NEAR YOUR HOME OR AT ANOTHER LOCATION E.G. YOU MAY HAVE BEEN ON HOLIDAY?	NO, HAVE NEVER EXPERIENCED THIS	YES - SINCE JAN 2023	YES - IN 2022	YES - IN 2021	YES - IN 2018, 2019 OR 2020	YES - BEFORE 2018
Floods threatened or impacted my personal safety, my home or workplace, my health or income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Storm, hailstorm, cyclone, severe rain event, or tornado threatened or impacted my personal safety, my home or workplace, my health or income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drought (severe rainfall deficiency lasting 12 months or longer) impacted my home or workplace, my health, my income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bushfires threatened or impacted my mental or physical health, personal safety, my home or workplace, my income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was exposed to smoke from bushfires e.g. you lived or were holidaying in an area affected by bushfire smoke	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HAVE YOU PERSONALLY EXPERIENCED ANY OF THE FOLLOWING, WHETHER IT HAPPENED NEAR YOUR HOME OR AT ANOTHER LOCATION E.G. YOU MAY HAVE BEEN ON HOLIDAY?	NO, HAVE NEVER EXPERIENCED THIS	YES - SINCE JAN 2023	YES - IN 2022	YES - IN 2021	YES - IN 2018, 2019 OR 2020	YES - BEFORE 2018
Earthquake threatened or impacted my personal safety, my home or workplace, my health or income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other natural disaster (please describe below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Disaster planning

HOW ARE YOUR LOCAL ECONOMY, GOVERNMENT AND COMMUNITY GROUPS GOING AT THE MOMENT?	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
People are actively working to reduce disaster risk in my local area e.g. local government, businesses, community organisations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Past natural hazard experience

IF YOU EXPERIENCED THIS BETWEEN 2018 AND 2023, WERE YOU STILL EXPERIENCING ANY ONGOING IMPACTS FROM THIS DURING THE LAST 12 MONTHS? THESE MIGHT INCLUDE HEALTH, FINANCIAL, OR EMOTIONAL IMPACTS, OR IMPACTS ON YOUR ABILITY TO LIVE A NORMAL DAY TO DAY LIFE.	NO ONGOING IMPACTS IN LAST 12 MONTHS				SEVERE ONGOING IMPACTS IN LAST 12 MONTHS		
	1	2	3	4	5	6	7
Floods that threatened or impacted my personal safety, my home or business, my income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Storm, hailstorm, cyclone, severe rain event, or tornado that threatened or impacted my personal safety, my home or business, my income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drought that impacted my home or business, my income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bushfires that threatened or impacted my personal safety, my home or business, my income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

IF YOU EXPERIENCED THIS BETWEEN 2018 AND 2023, WERE YOU STILL EXPERIENCING ANY ONGOING IMPACTS FROM THIS DURING THE LAST 12 MONTHS? THESE MIGHT INCLUDE HEALTH, FINANCIAL, OR EMOTIONAL IMPACTS, OR IMPACTS ON YOUR ABILITY TO LIVE A NORMAL DAY TO DAY LIFE.

**NO ONGOING IMPACTS
IN LAST 12 MONTHS**

**SEVERE ONGOING
IMPACTS IN LAST
12 MONTHS**

Smoke from bushfires e.g. you lived or were holidaying in an area affected by bushfire smoke	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Earthquake that threatened or impacted my personal safety, my home or business, my income, or other aspects of my life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other natural disaster	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Past natural hazard experience

THINKING ABOUT THE LOCAL AREA YOU LIVE IN, WHAT IS THE LEVEL OF RISK IN THE AREA OF...

**HIGH
RISK**

**MODERATE
RISK**

**LOW
RISK**

**NO
RISK**

UNSURE

Flooding during or after high rainfall events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flooding due to storm surges from ocean areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bushfires during hot/dry periods of weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cyclones	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Storm damage from rain, hail or wind storms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experiencing regular extended periods of low rainfall (drought)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Hazard risk perceptions

Displayed to those who are employed (self employed, FT, PT, Casual, seasonal, business owner)

HOW MUCH ARE YOU PERSONALLY AT RISK OF EXPERIENCING IMPACTS FROM DIFFERENT TYPES OF EXTREME WEATHER? THIS MIGHT OCCUR EVEN IF YOU DON'T PERSONALLY EXPERIENCE DIRECT DAMAGE FROM THE EVENT – FOR EXAMPLE, DROUGHT MIGHT REDUCE TOURISM WHICH IN TURN MIGHT AFFECT YOUR BUSINESS.

**HIGH
RISK**

**MODERATE
RISK**

**LOW
RISK**

**NO
RISK**

UNSURE

Risk of reduced income if a drought occurs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Risk of reduced income if a flood occurs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HOW MUCH ARE YOU PERSONALLY AT RISK OF EXPERIENCING IMPACTS FROM DIFFERENT TYPES OF EXTREME WEATHER? THIS MIGHT OCCUR EVEN IF YOU DON'T PERSONALLY EXPERIENCE DIRECT DAMAGE FROM THE EVENT – FOR EXAMPLE, DROUGHT MIGHT REDUCE TOURISM WHICH IN TURN MIGHT AFFECT YOUR BUSINESS.

	HIGH RISK	MODERATE RISK	LOW RISK	NO RISK	UNSURE
Risk of reduced income from storm/cyclone/hail damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Risk of reduced income due to bushfire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Hazard risk perceptions

HOW MUCH DO YOU AGREE OR DISAGREE WITH THE FOLLOWING STATEMENTS ABOUT TAKING ACTION TO REDUCE DISASTER RISK AROUND YOUR HOME?

	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
I am confident enough has been done to reduce disaster risk around my home	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'd like to do more to reduce disaster risk, but find it difficult to	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Even with the best disaster preparation, my home/property is at high risk of significant damage from some types of disasters e.g. flood, bushfire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall, my household is better prepared to cope with future disasters now than it was five years ago	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Disasters are becoming too unpredictable to be able to prepare well for them	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Preparedness

HOW MUCH DO YOU DISAGREE OR AGREE WITH THE FOLLOWING STATEMENTS ACCESSING THE INFORMATION YOU NEED TO PREPARE FOR AND MANAGE IMPACTS OF EXTREME WEATHER EVENTS?

	NO	SORT OF (A LITTLE, BUT WITH SOME LIMITATIONS)	YES	N/A	DON'T KNOW
It's easy to find out when a heatwave is coming and prepare for it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When bushfires are occurring nearby, it's easy to access up to date information that lets me plan what action to take	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HOW MUCH DO YOU DISAGREE OR AGREE WITH THE FOLLOWING STATEMENTS ACCESSING THE INFORMATION YOU NEED TO PREPARE FOR AND MANAGE IMPACTS OF EXTREME WEATHER EVENTS?	NO	SORT OF (A LITTLE, BUT WITH SOME LIMITATIONS)	YES	N/A	DON'T KNOW
When high rainfall or flood events are impacting my region, I can access information in time to take actions to reduce potential impacts on my home or workplace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am able to access information on predictions of future rainfall to help me plan for drought conditions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Preparedness

HOW MUCH DO YOU DISAGREE OR AGREE WITH THE FOLLOWING STATEMENTS ABOUT PLANNING AND PREPARING FOR EXTREME WEATHER EVENTS AT YOUR HOME?	NO	SORT OF (A LITTLE, BUT WITH SOME LIMITATIONS)	YES	N/A	DON'T KNOW
In a severe heatwave, it's easy for me to avoid experiencing heat-related illness/health problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If a severe storm, flooding or bushfire causes damage to my home I know what to do	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My household has a written plan for bushfires	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My household has a written plan for storms, floods or other natural disasters other than fire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My household has a plan for managing impacts of drought if it happens e.g. how to manage water use in the home and on the garden	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If there is a blackout at my home, I can still access radio updates e.g. using a battery powered radio or back up power source	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In the last year, I have discussed what to do in the event of a storm, flood, bushfire or other emergency with others in my household, neighbours or friends	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HOW MUCH DO YOU DISAGREE OR AGREE WITH THE FOLLOWING STATEMENTS ABOUT PLANNING AND PREPARING FOR EXTREME WEATHER EVENTS AT YOUR HOME?	NO	SORT OF (A LITTLE, BUT WITH SOME LIMITATIONS)	YES	N/A	DON'T KNOW
There is an emergency kit in my household with things such as a battery powered radio, torches and batteries	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The emergency kit has been checked in the last year to make sure it is fully stocked and that equipment such as radios or torches work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Copies of my important home documents are stored in a safe place in case of emergency e.g. you have saved electronic copies online, or stored paper copies somewhere safe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Awareness of community emergency resources

Have you looked for any information about what to do to prepare for or respond to natural disasters in the last 12 months? Yes No

If yes,(online piping)

Where did you look for this information?

Please provide details about where you looked for the information, for example from different organisations or resources

Indicator: Water and sanitation

Which sources of water does your household use for domestic needs (drinking, washing, showering, cooking etc)

Select all that apply

- Mains water (water is piped to your home from a central water supply)
- Water tank/s on the property (these may use rainwater, trucked in water, or a combination of both)
- Bore water/ground water
- Water pumped from a nearby dam
- Water pumped directly from a nearby river/waterway
- Water purchased in large bottles/containers to be used as a main source of washing, drinking, and cooking water in the home
- Other (please describe) _____
- Don't know

Indicator: Water and sanitation

TO WHAT EXTENT DO YOU AGREE OR DISAGREE THAT...	STRONGLY DISAGREE					STRONGLY AGREE		
	1	2	3	4	5	6	7	DON'T KNOW
Overall, I am satisfied with the quality of the water available to my household to use for drinking, cooking, washing, and showering/bathing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My household has access to enough water for our water use needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Indicator: Water and sanitation

IN THE LAST 12 MONTHS, WAS YOUR HOUSEHOLD AFFECTED BY ANY OF THE FOLLOWING?	NEVER					REGULARLY			
	1	2	3	4	5	6	7	DON'T KNOW	N/A
Had to boil or treat water before it could be used for cooking or drinking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water that looked, smelled or tasted bad	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appliances in the home were damaged due to problems with water supply such as high levels of minerals ('hard water')	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Had to restrict water use in the home due to limited water supply (do not include water use in the garden)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Had to restrict water use outside my home e.g. in the garden due to limited water supply	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Had to purchase water from a truck/tanker/other supplier due to lack of water availability or quality from other sources for my home	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

APPENDIX E



EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES

JANUARY 22ND 2024



ACKNOWLEDGEMENT OF COUNTRY

EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES | CONCEPTS SHOWCASE

Today we are gathering online from many places across Australia.

We acknowledge the Traditional Owners and custodians of the many Nations from which we are coming together online, and pay respects to Elders past, present and emerging.

PROJECT
TEAM

EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES | CONCEPTS SHOWCASE



OVERVIEW

- Project introduction & objectives
- Developing resilience indicators
- Signs of changing resilience – what to look for
- More about developing indicators
- Pilot *Early Insights* dashboard
- Next steps

EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES | CONCEPTS SHOWCASE





THE *EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES* PROJECT



RESILIENCE

The capacity of individuals and communities to prepare for, respond to, recover from, and adapt to challenges in ways that support healthy levels of wellbeing over the long-term.

EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES | CONCEPTS SHOWCASE

EARLY INSIGHTS PROJECT OBJECTIVES

Develop pilot tools to enable more rapid identification of changes in resilience in communities impacted by natural hazards.

“Two years ago I would have said we were a resilient community – but after a bushfire, two storms and a flood, plus the cost of living crisis, a lot has changed. We have a lot of people who’ve dealt with things up to now, but are now going backwards. They can’t cope with another disaster. But the most recent data for our community is from three years ago and says we’re doing fine – so it’s hard to prove that we need extra investment here.”

– Composite quote representing common issues identified by people working for organisations that support communities in crisis

HAVEN'T WE DONE THIS ALREADY?

Existing indexes provide good insight into longer-term conditions – but have some limitations

- Often focus on large regions
- Irregular data, not frequently able to be updated
- Exclude key indicators
- Lack of evidence for some indicators

A focus on resilience as something that changes regularly is a new approach

- Change is the new normal
- Data availability is increasing rapidly

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PROJECT STAGES

Stage 1

- Identify **what** can be measured
 - Defining resilience and how it operates
 - Which resilience indicators can measure shorter term change, early in process of change occurring?
 - Which indicators are supported by a good evidence base?
 - Which indicators can be measured with currently available data?

Stage 2

- Pilot measurement of **changes** in resilience at **local community** scale
 - Develop pilot *Early insights* dashboard
 - Select & develop pilot indicators so they can be easily interpreted by organisations needing information on resilience
 - Develop survey to measure additional indicators for which no data exists
- Identify further development needs beyond pilot



DEVELOPING RESILIENCE INDICATORS



INDICATOR DEVELOPMENT

Identifying indicators

- >500 indicators identified in literature
- Stakeholder workshops identified more
- Short list of indicators
 - Able to measure change
 - Good evidence base
 - Identified as relevant by end users
- Shorter list selected for pilot dashboard
 - Data availability & project resources

Key lessons

- We lack empirical evidence for many indicators – in other words, we don't actually know if they really do predict higher or lower resilience
- Many indicators cannot easily be used to measure change in resilience
- We lack data for many of the indicators evidence suggests are important predictors of resilience

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'RESILIENCE' DEPENDS ON RESILIENCE RESOURCES



IDENTIFYING **EARLY** INSIGHTS INTO CHANGING RESILIENCE RESOURCE LEVELS

Indicators we measure should be sensitive to early levels of change – rather than only showing change when resilience resources are close to depletion.

Which of the following is more sensitive to early signs of change?

- % late debt repayments by businesses
- Business bankruptcy rate

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WHAT ARE GOOD INDICATORS OF RESILIENCE?

The following are not indicators of the presence of high or low resilience:

- Age
- Disability
- Cultural background
- Geographic location
- Any socio-demographic characteristic

Why? Because many of these cannot or do not change – whereas resilience can and does.

If we use these as resilience indicators, we promote a deficit-based approach in which we assume the resilience of some groups cannot change.

While high or low levels of resilience may be more common amongst some groups of people, the characteristics that define those groups are not the cause of the high or low resilience. A person does not automatically become less or more resilient as they age, or because they acquire a disability. A person whose family or region has experienced intergenerational disadvantage may be at greater risk of having low resilience – but many people in that group will have very high resilience precisely because of the challenges they have had to navigate in their lives.

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SIGNS OF CHANGING RESILIENCE - WHAT TO LOOK FOR



INDICATORS OF FINANCIAL RESILIENCE

Signs of LOW resilience

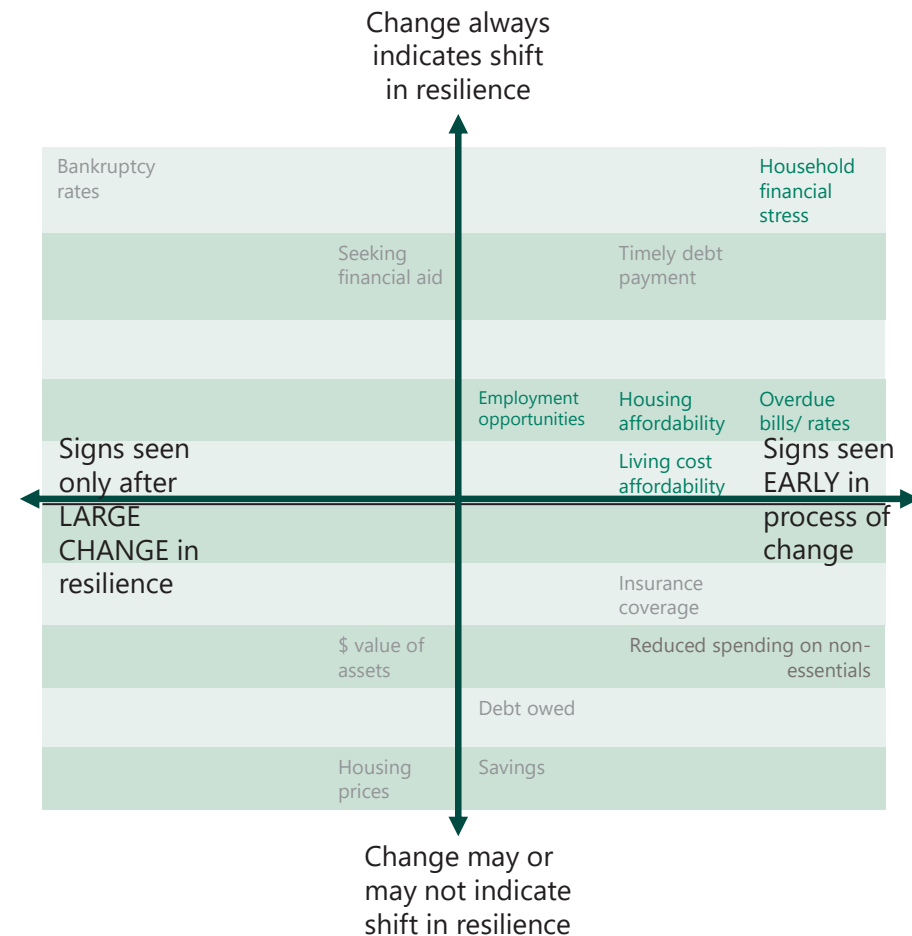
- High % experiencing financial stress events
- High % finding living costs unaffordable

Early signs of change:

- Changes in spending
- Timeliness of debt repayment
- Change in insurance coverage
- % accessing government support associated with lower income/higher financial need

Longer term signs of change:

- Increase in % seeking financial aid
- Repossession, bankruptcy

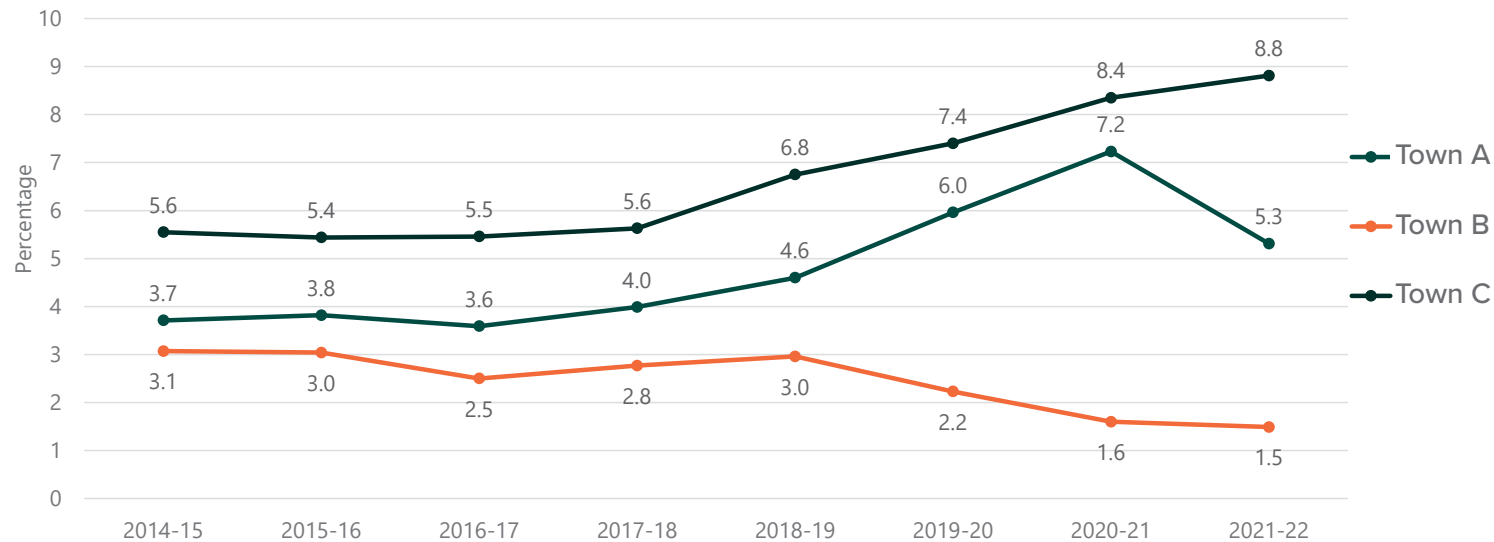


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FINANCIAL RESILIENCE EXAMPLE INDICATOR: OVERDUE LOCAL GOVERNMENT PAYMENTS

Local government rates and annual charges outstanding

Data source: NSW Office of Local Government



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INDICATORS OF HUMAN RESILIENCE (HEALTH, SKILLS)

Signs of low resilience

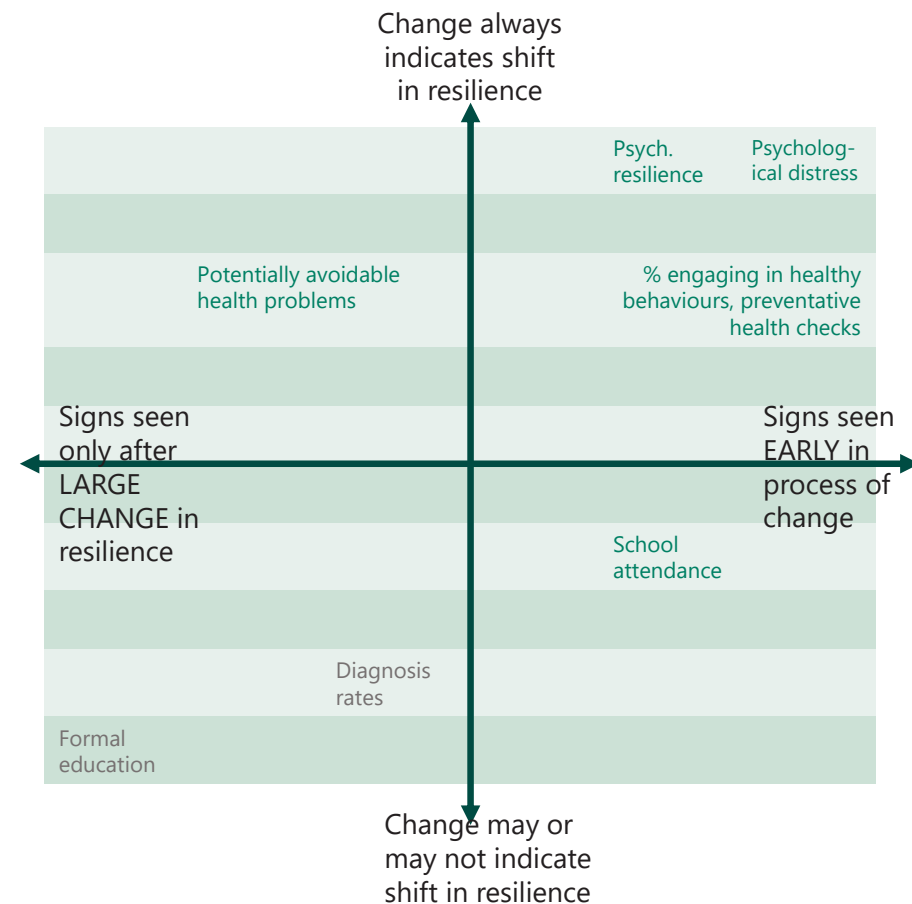
- High % with high psychological distress
- Low school attendance
- Decreasing confidence in ability to cope with challenges

Early signs of change:

- Decline in % doing recommended preventative health checks
- Increase in risky health behaviours (drinking, smoking)

Longer term signs of change:

- High rate of avoidable illness & deaths

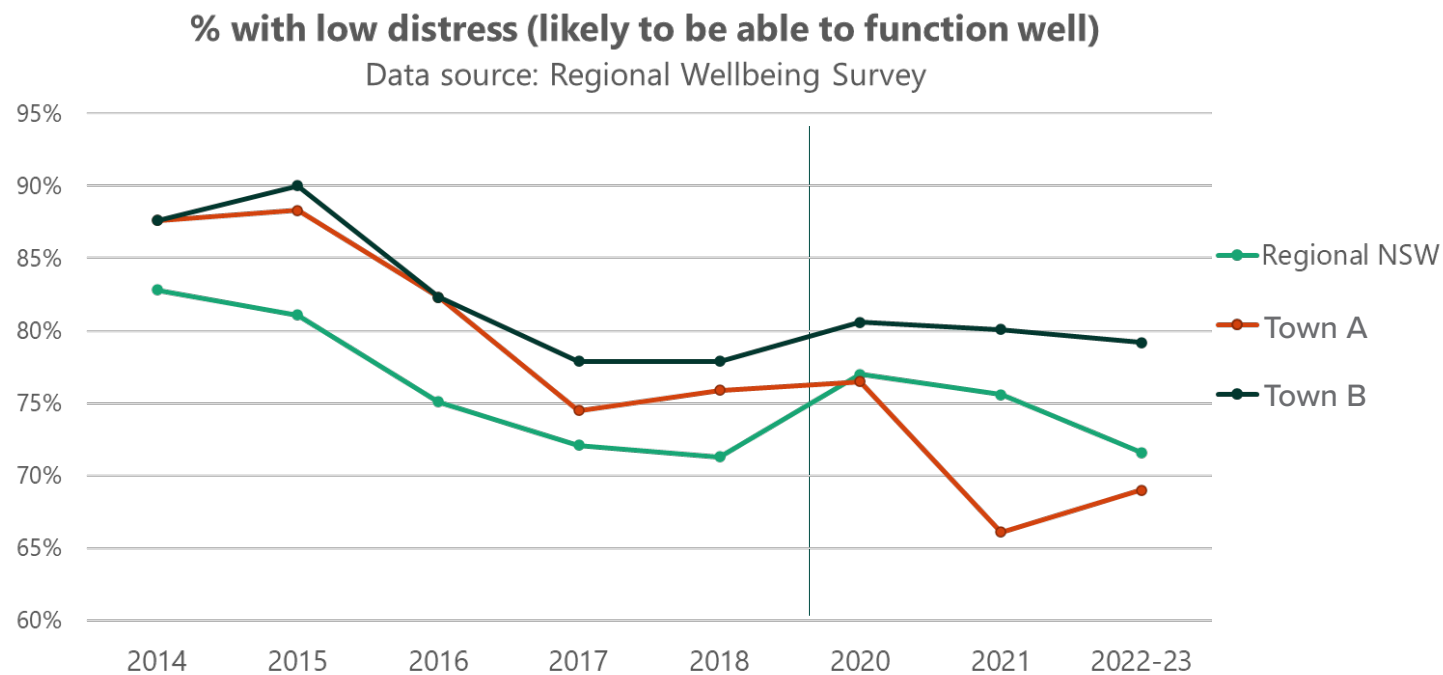


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HUMAN RESILIENCE EXAMPLE

INDICATOR: PSYCHOLOGICAL DISTRESS

High distress reduces our ability to function well, including engaging in decision making

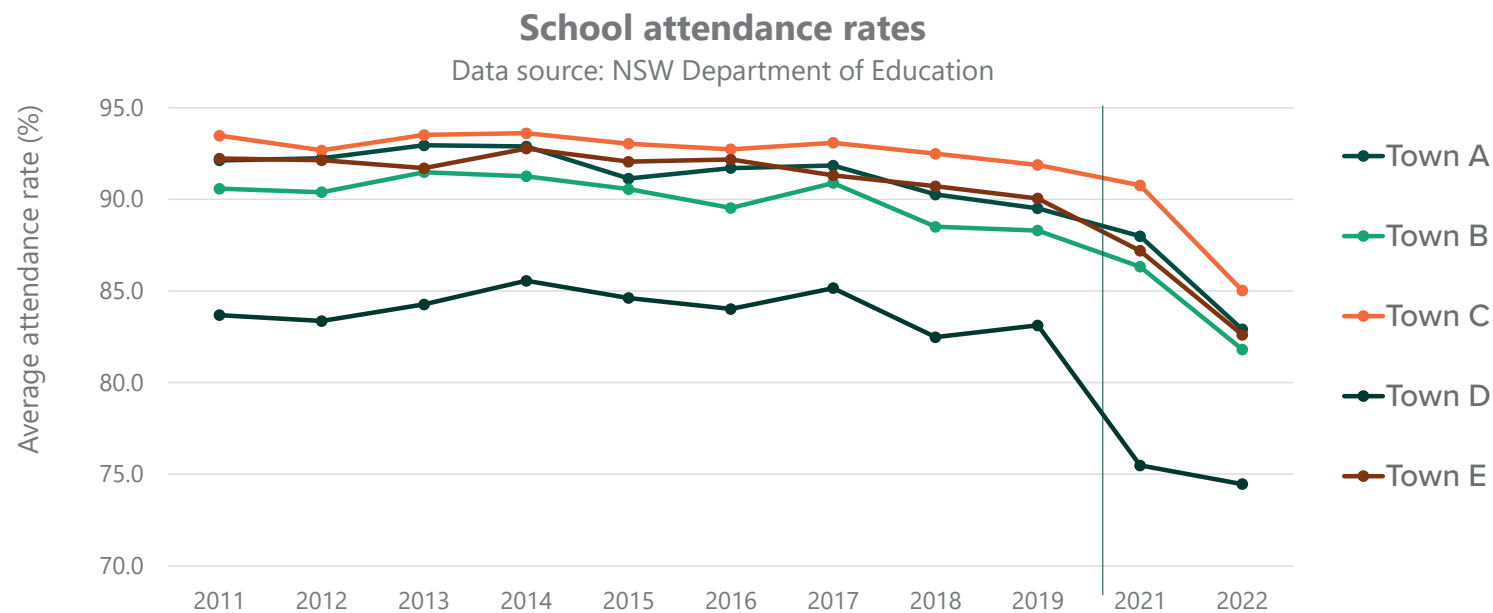


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HUMAN RESILIENCE EXAMPLE

INDICATOR: SCHOOL ATTENDANCE

The pandemic created a step-change in attendance rates – care is needed in interpreting this indicator



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INDICATORS OF SOCIAL RESILIENCE

Signs of low resilience

- Low engagement in community activities (sports, fetes, Facebook groups)
- Low access to support from personal social networks (friends, family)
- Low participation in volunteering
- High volunteer burnout & turnover

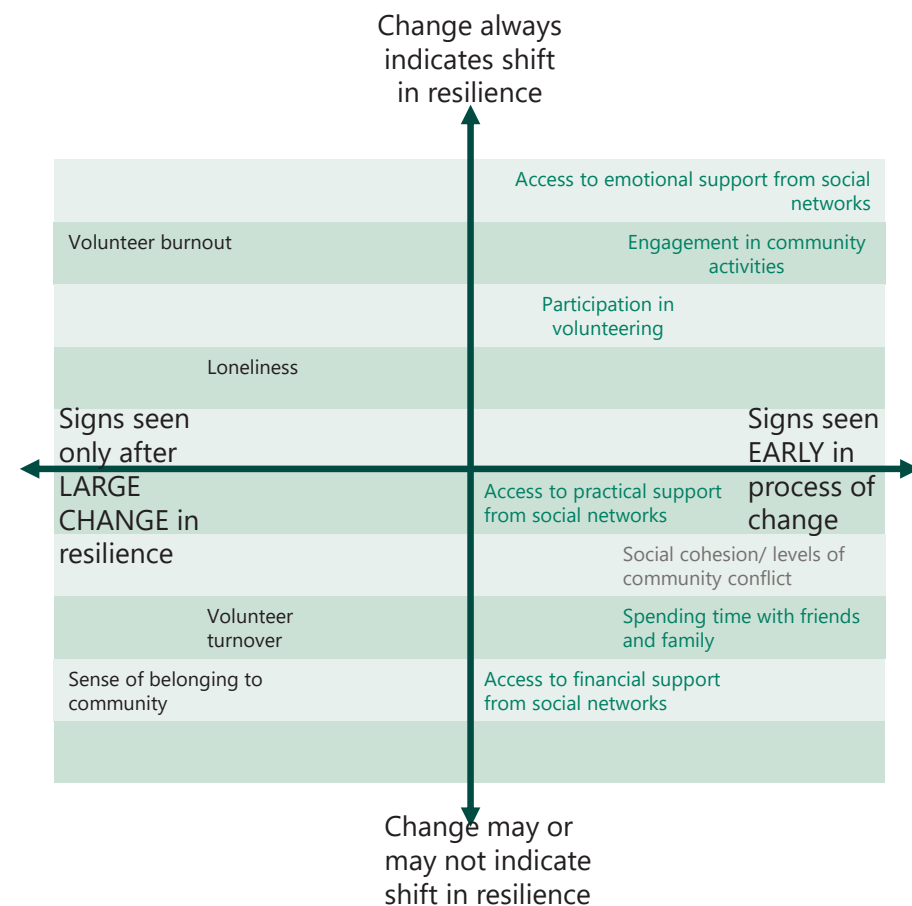
Early signs of change:

- Less engagement in social activities
- Decrease in frequency of volunteering

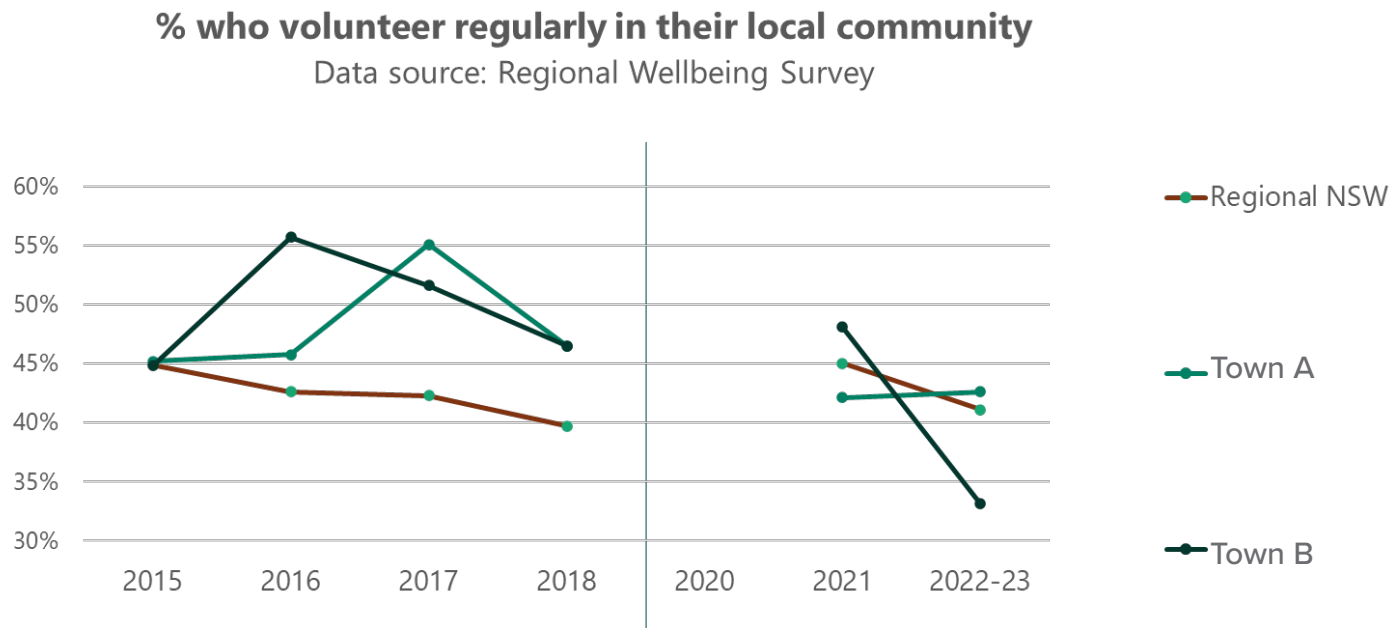
Longer term signs of change:

- Cancellation of events due to lack of community support/ volunteers
- Increase in loneliness
- Decline in sense of belonging

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SOCIAL RESILIENCE EXAMPLE
INDICATOR:



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INDICATORS OF INFRASTRUCTURE AND SERVICE RESILIENCE

Signs of low resilience

- Low availability of services (due to lack of presence, long waiting lists, high cost, poor quality, or other factors)
- Poor quality infrastructure (phone, internet, electricity, roads, buildings)

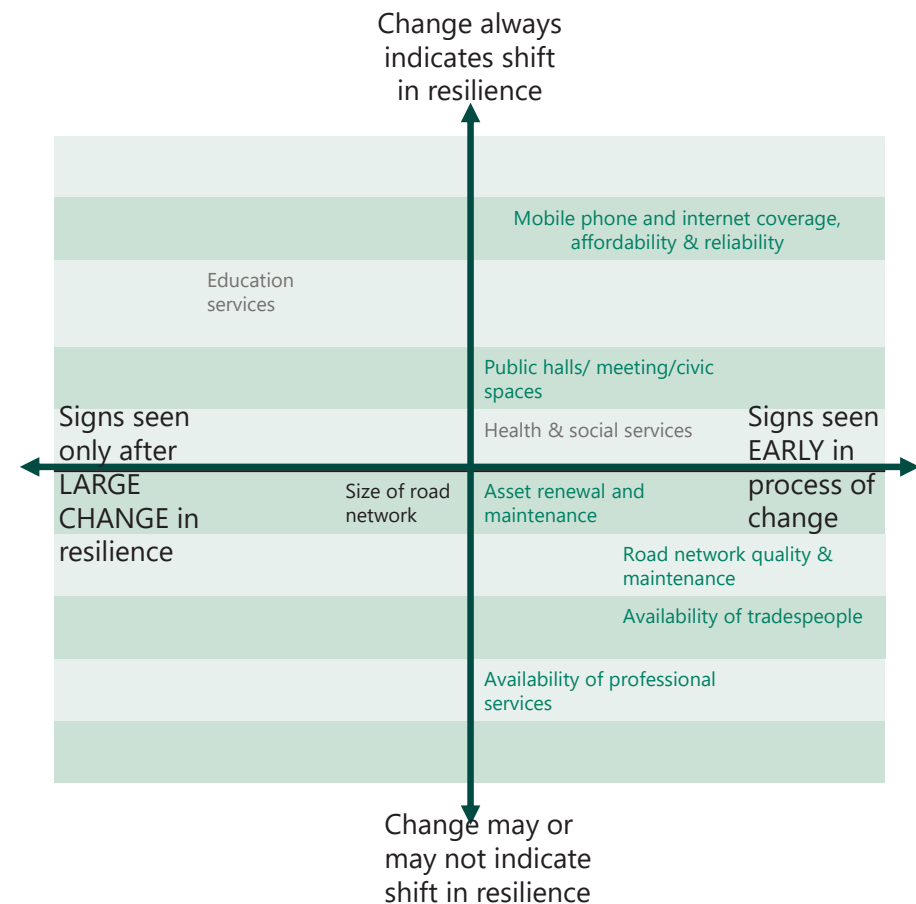
Early signs of change:

- Lower % of infrastructure maintained & renewed on regular schedule
- Higher rates of outages/downtime/repair time/breakdowns
- Increase in service wait times, cost (due to higher demand, reduced services, etc)
- Reduced service quality, higher turnover of service staff

Longer term signs of change:

- Loss of infrastructure (e.g. public halls not replaced when damaged in storm or fire; fire trail network reduced in size due to lack of funds)
- Loss of provision of services (e.g. unable to find replacement health professionals)

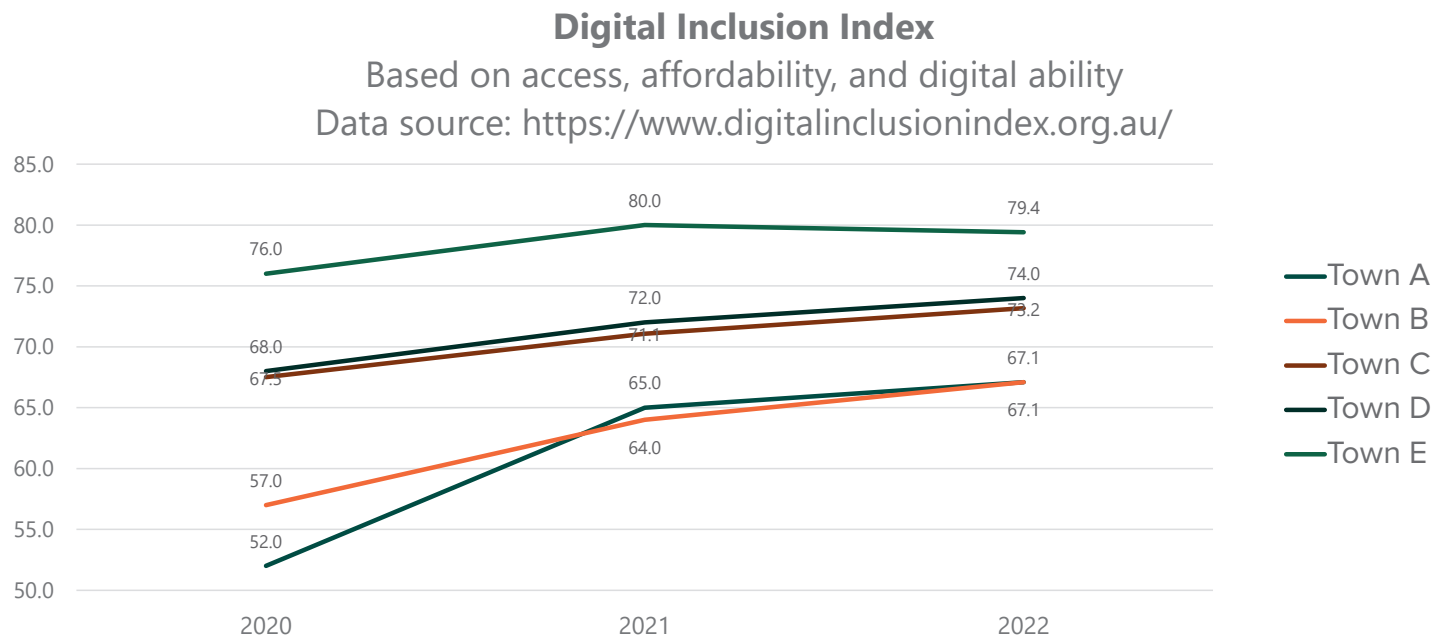
EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES | CONCEPTS SHOWCASE



INFRASTRUCTURE AND SERVICES RESILIENCE EXAMPLE

INDICATOR: DIGITAL INCLUSION INDEX

This indicator is not included in the pilot dashboard, but flagged for potential future inclusion



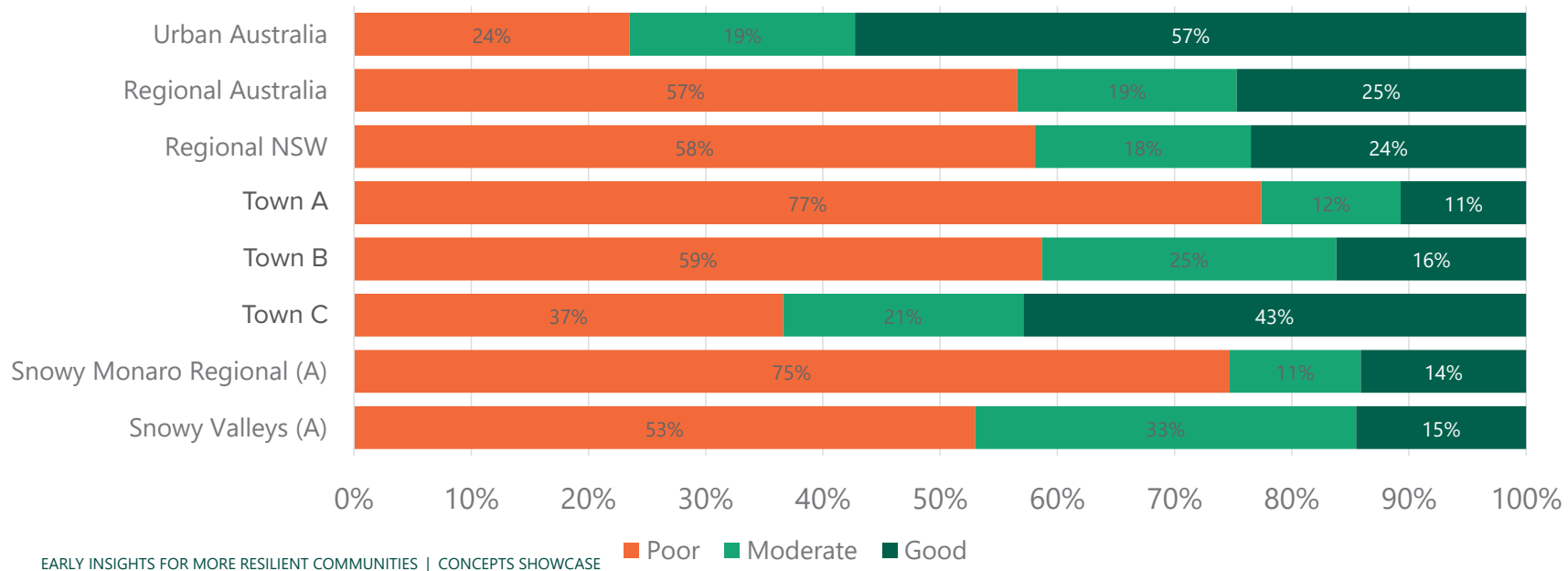
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INFRASTRUCTURE AND SERVICES RESILIENCE EXAMPLE

INDICATOR: TRADESPEOPLE AVAILABILITY

This indicator was collected for the first time for this project, one of several developed and tested in our survey tool

Availability of tradespeople, 2022-23
Data source: Regional Wellbeing Survey



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INDICATORS OF LIVEABILITY

Signs of low resilience

- Low sense of safety
- Low amenity (local buildings, nature areas)

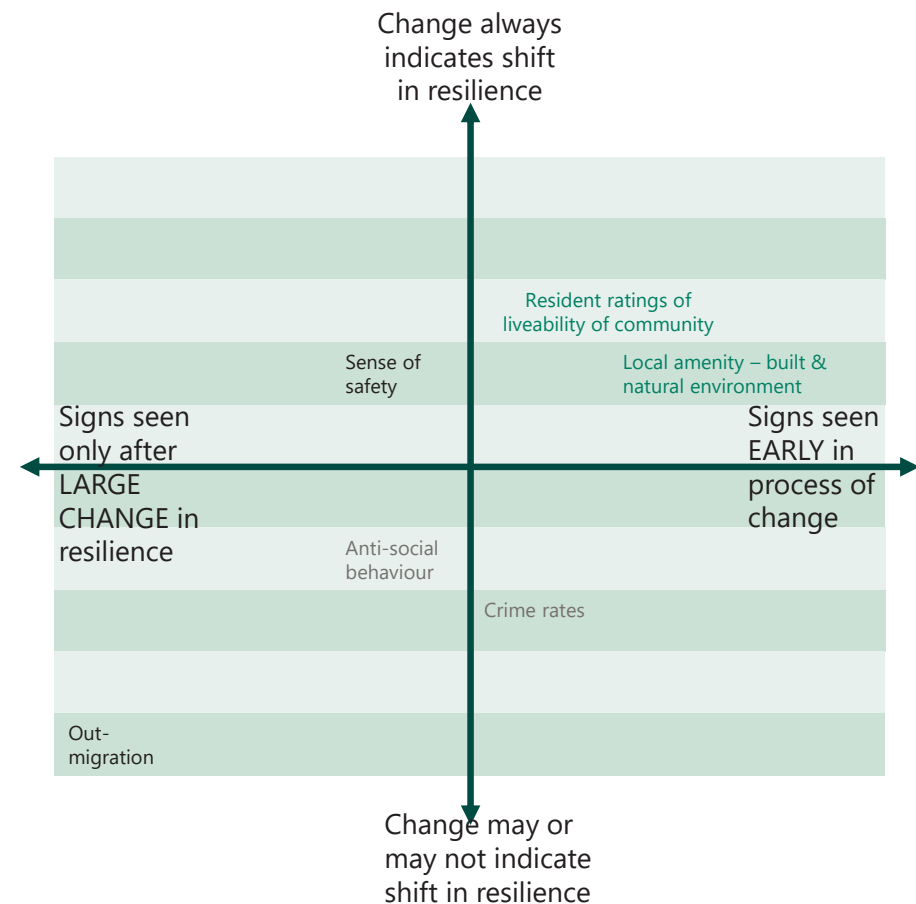
Early signs of change:

- Decline in aspects of amenity e.g. street trees, buildings, parks, nature areas
- Increase in anti-social behaviour, crime

Longer term signs of change:

- High rates of out-migration from community

Note: all domains contribute to liveability

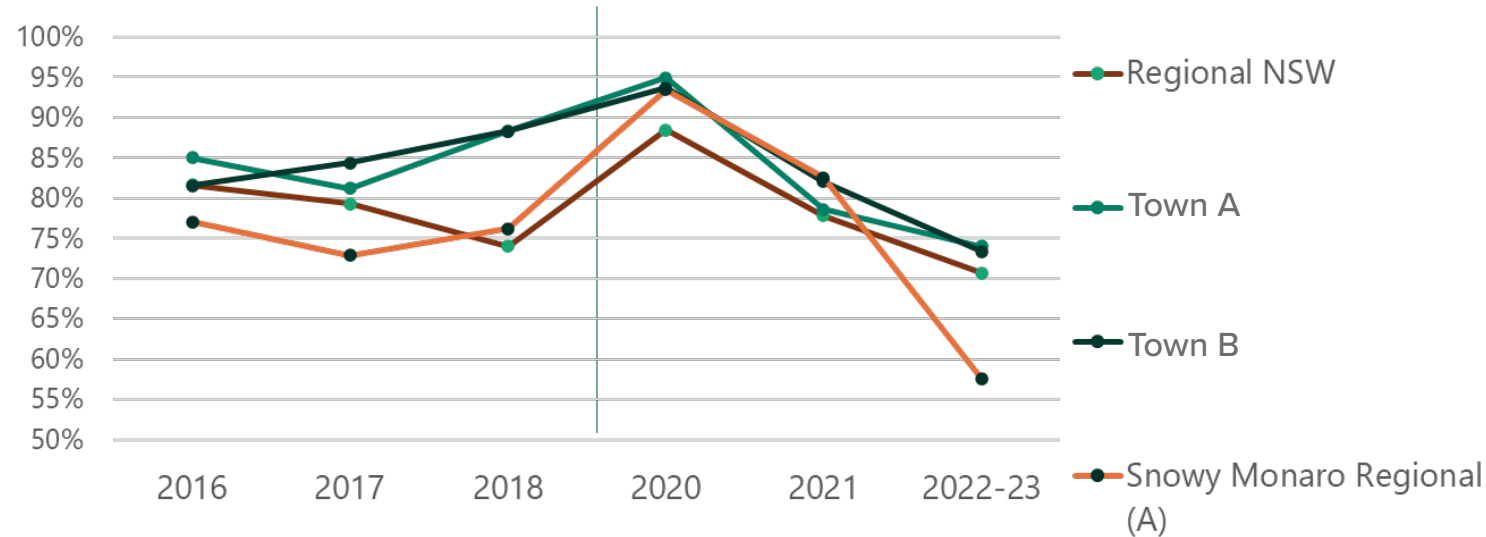


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LIVEABILITY RESILIENCE EXAMPLE
INDICATOR:

**% who would recommend their community to others as a
great place to live**

Data source: Regional Wellbeing Survey



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INDICATORS OF INSTITUTIONAL RESILIENCE

Signs of low resilience

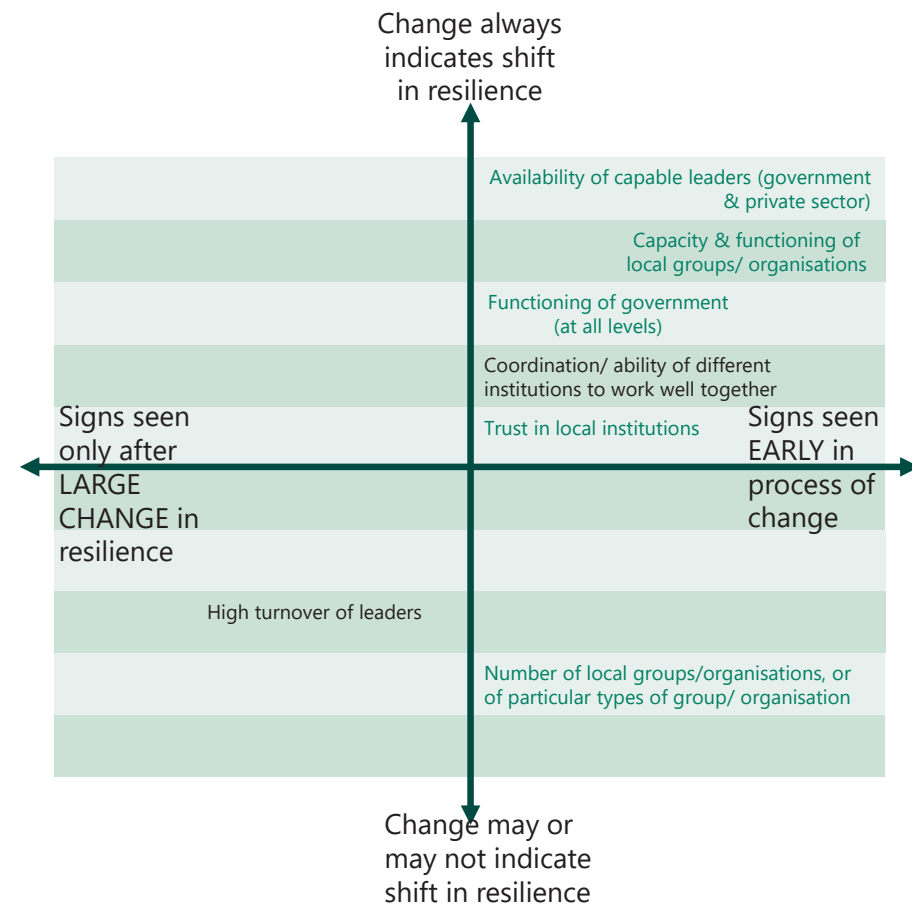
- Residents feel there are few/no leaders
- Low trust in local organisations
- Low coordination/trust between organisations

Early signs of change:

- Declining confidence in organisations
- Higher turnover in staff of community organisations (government & non-government)

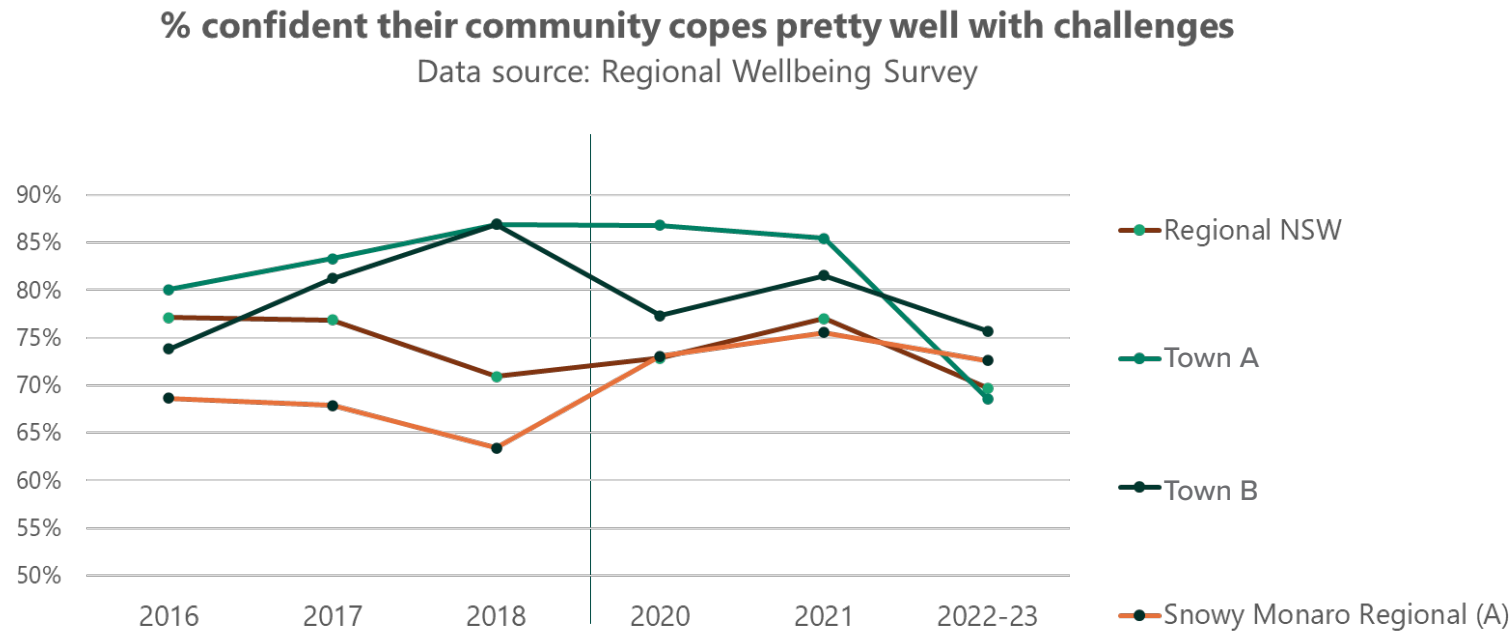
Longer term signs of change:

- High turnover of leaders



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INSTITUTIONAL RESILIENCE EXAMPLE INDICATOR:



EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES | CONCEPTS SHOWCASE

INDICATORS OF NATURAL HAZARD SPECIFIC RESILIENCE

Signs of low resilience

- Low engagement in preparing for natural hazards
- Low emergency services capacity
- Low confidence in ability to cope with hazards

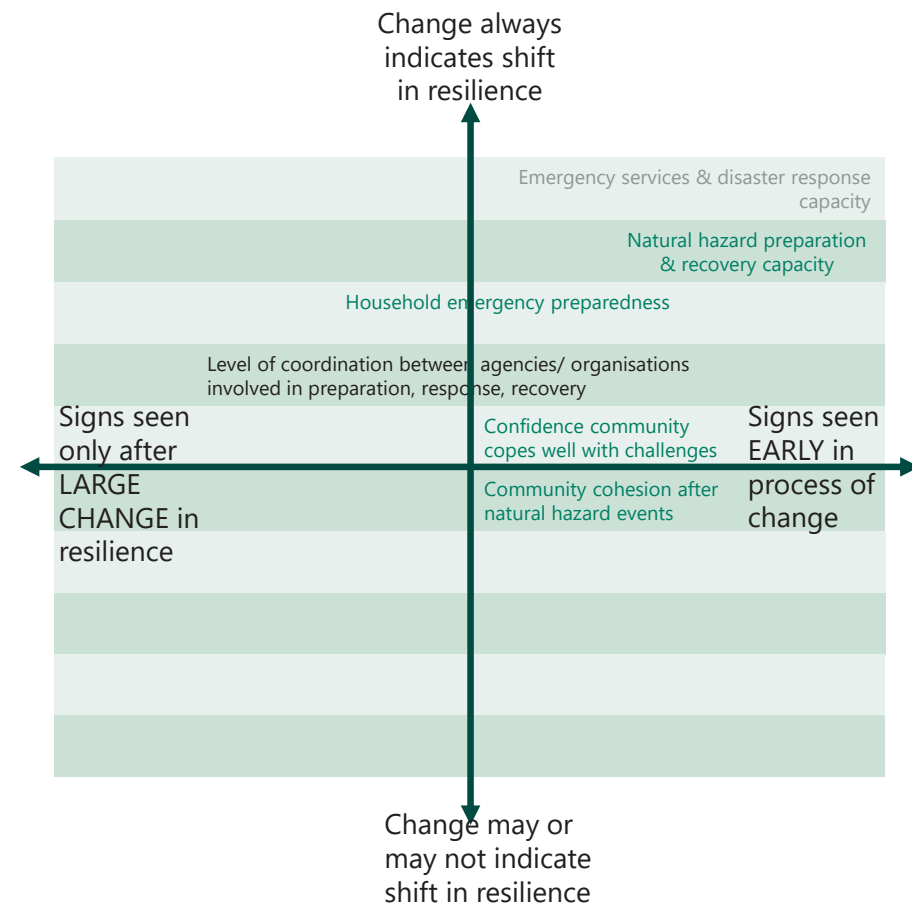
Early signs of change:

- Change in % regularly engaging in emergency preparedness activities
- Change in level of investment in natural hazard preparedness, response & recovery capacity

Longer term signs of change:

- Change in % households experiencing damage from similar events

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INDICATORS OF ECOSYSTEM SERVICE RESILIENCE

Signs of low resilience

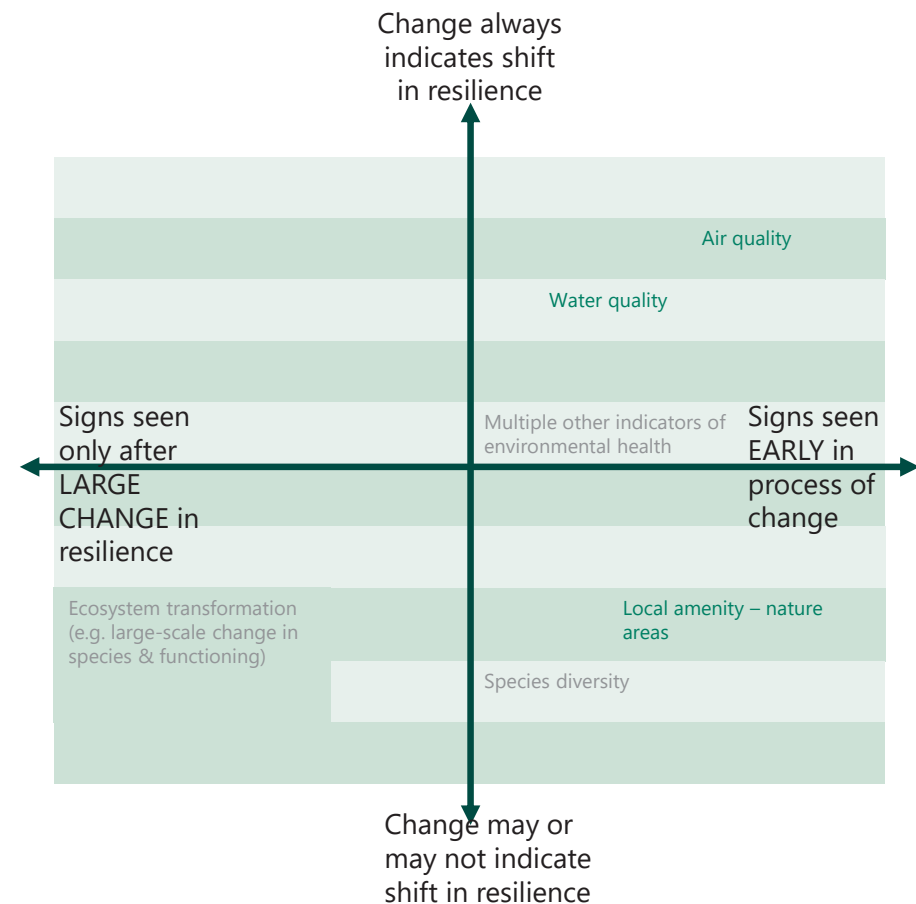
- Specific to each indicator

Early signs of change:

- Specific to each indicator

Longer term signs of change:

- Specific to each indicator



EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES | CONCEPTS SHOWCASE

INDICATORS OF EXPOSURE

Being exposed to (impacted by) a natural hazard does not automatically result in an increase or decrease in resilience levels.

Depending on a range of factors, being exposed may result in:

- Building of capacity to cope with future hazards (growth in resilience resources)
- Reduction in capacity to cope with future hazards (decline in resilience resources due to high demand)



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Natural Hazard and Ecosystem Provision Indicators

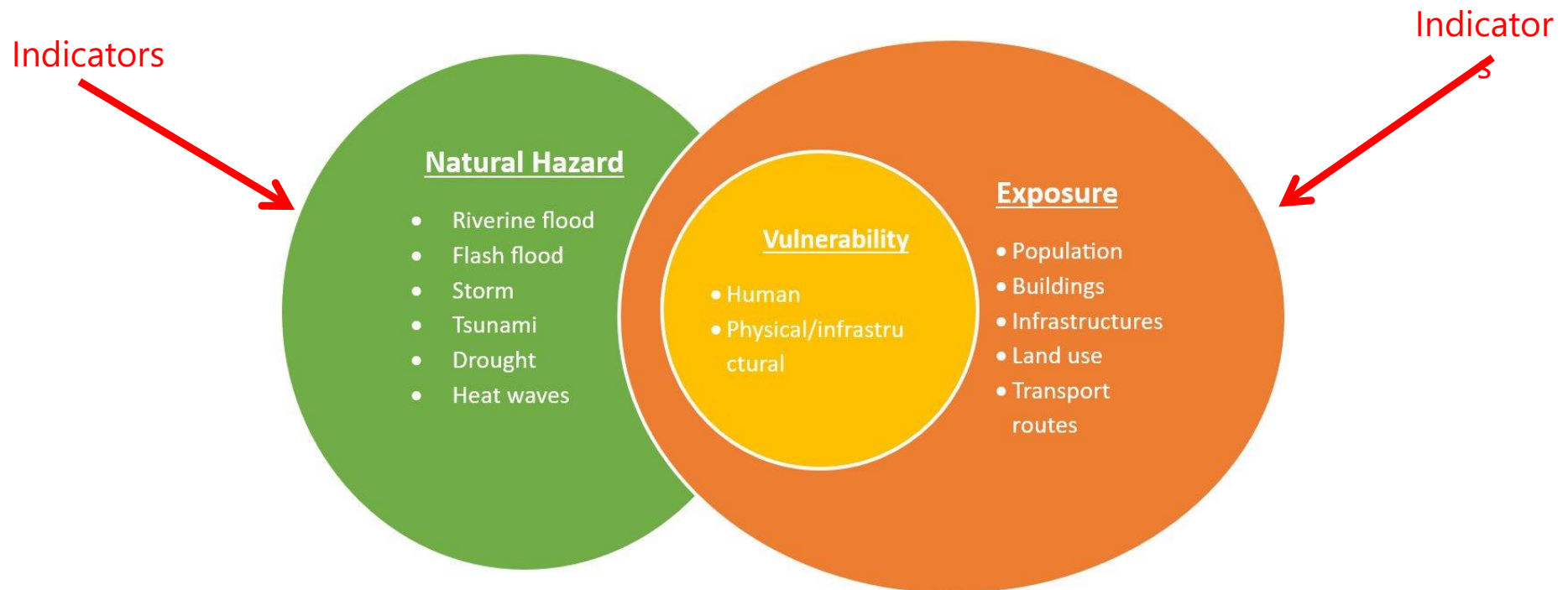
Institute for Water Futures & Fenner School of Environment and Society: Wendy Merritt, Fateme Zare, Lorrae van Kerkhoff
College of Engineering, Computer and Cybernetics (CECC): Liang Zheng, Saswat Panda, Lei Wang

Focus indicators developed by ANU

Category of Indicator	Indicators for PoC EWS tool	Data Resources
Natural Hazard risk (exposure/ vulnerability)	Drought (Combined Drought Indicator)	Publicly available via Department of Primary Industry interactive map: https://edis.dpi.nsw.gov.au/
	Fire risk (Fire Behaviour Index)	Publicly available via BOM website: http://www.bom.gov.au/nsw/forecasts/fire-danger-ratings.shtml
	Storm	Publicly available via http://www.bom.gov.au/australia/stormarchive/
	Exposure to Natural Hazard	Regional Wellbeing Survey
	Impacts of Natural Hazards	Regional Wellbeing Survey
Ecosystem Services Provision (resilience resource)	Availability of Potable Water	Publicly available via https://www.dpie.nsw.gov.au/water/local-water-utilities/local-water-utility-performance
	Air Quality	Publicly available via https://nsw.digitaltwin.terria.io/
	Observed Environmental Change	Regional Wellbeing Survey

Relating natural hazard exposure to resilience

*Risk = Hazard * Exposure * Vulnerability*



Challenges in relating natural hazard exposure to resilience

*Risk = Hazard * Exposure * Vulnerability* <--> *Resilience*



Resilience: ability of individuals and communities to prepare for, respond to, recover from, and adapt to natural disasters. This capacity helps reduce the adverse impacts of such events and expedites recovery from any negative consequences that do occur.

Vulnerability: an inherent aspect of any community, arises from the interplay of human systems, the built environment, and the natural surroundings.

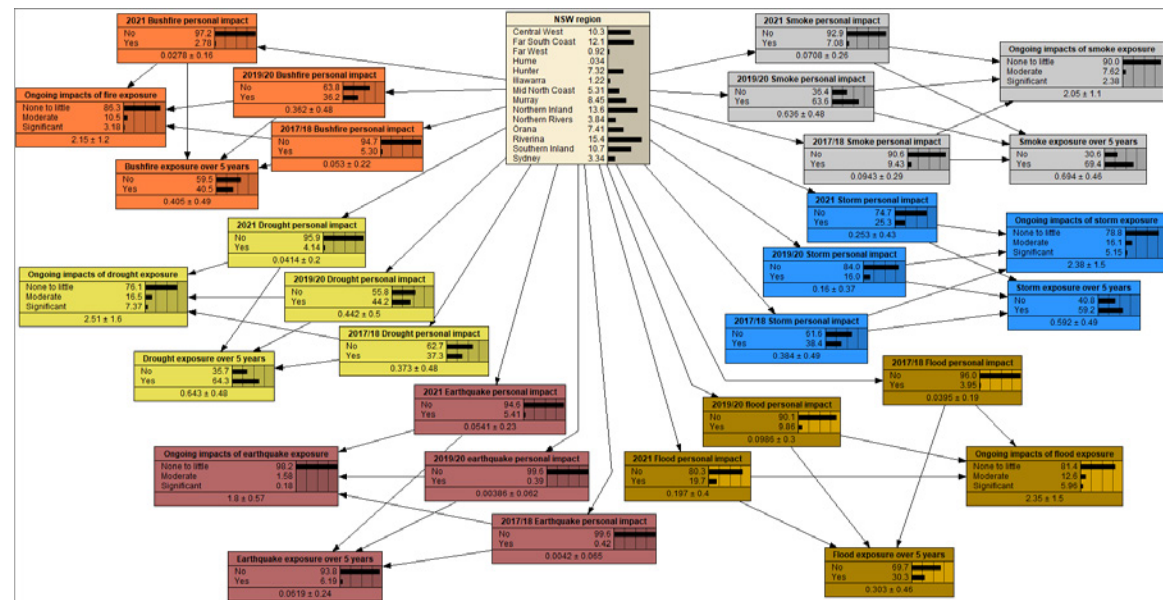
We can measure exposure and risk indicators but cannot directly equate these to a given amount of change in resilience as there are many influencing factors.

Key challenges – ecosystem service provision & natural hazard risk

- Risk and vulnerability are different to resilience resources
 - Relationships between natural hazard risk and resilience are complex and interconnected with other indicator types
 - Environmental indicators section of the pilot tool is structured to highlight *indicator variations* rather than *signalling change in resilience* of individuals or community
- General challenges
 - Many indexes available – which are fit-for-purpose at the community level/scale?
 - How best to aggregate spatial data to reporting scale?
 - Different timeframe amongst indicators (e.g. drought is slow to be detected and flood is sudden)
 - Availability and consistency of data across time and space

Preparation of indicators

- Overview of the process and methods used to develop initial indicators
 - Literature review to select the most suitable indicator for our purpose
 - Scraping tools
 - Codes to aggregate spatial data
 - Bayesian Networks to explore RWS data

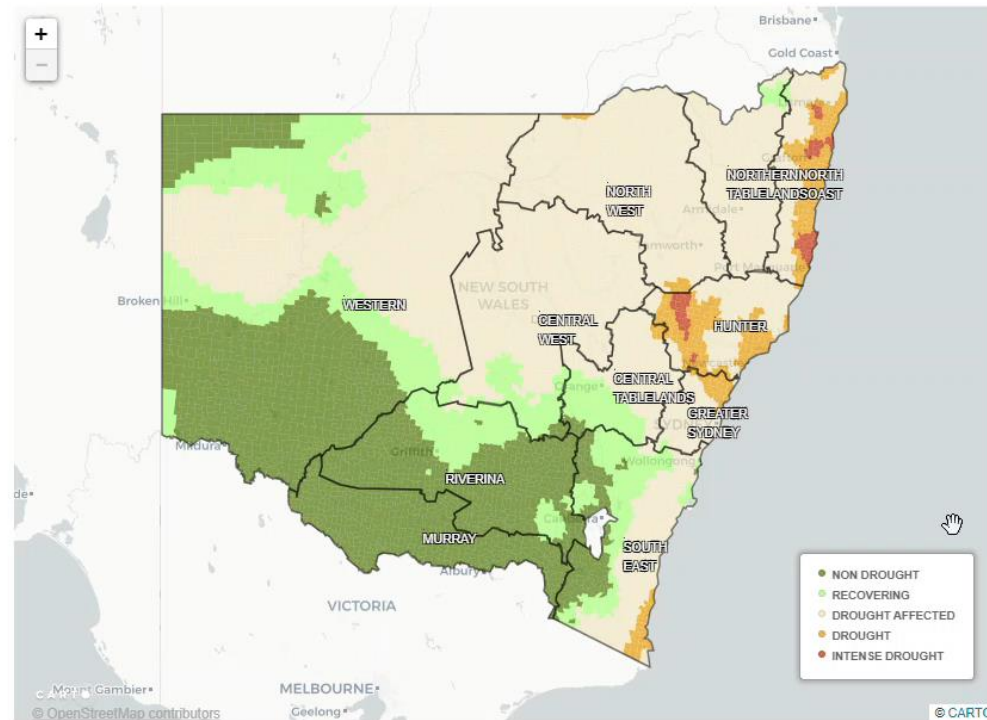
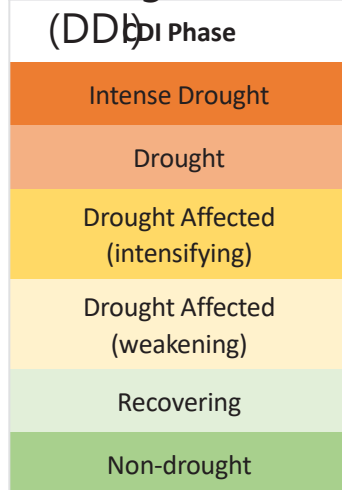


Screen capture of the Netica model developed for exposure to, and impact of, natural hazards

Combined Drought Indicator

CDI:

- Rainfall Index (RI)
- Soil Water Index (SWI)
- Pasture Growth Index (PGI)
- Drought Direction Index



Data current to 11/1/2024 (AEDT)

Exposure To Natural Hazards

While exposure to natural hazards is not a type of resilience resource, the frequency, intensity, and duration of events a person, household or community experiences directly affects their capacity to prepare, respond and recover.

What is the indicator?

Indicators included in the EWS Pilot Tool relevant to the exposure to natural hazards are the presence (or absence) of reported impact from natural hazard exposure over the last five years for six natural hazard types: bushfire, drought, earthquake, flood, storm and smoke.

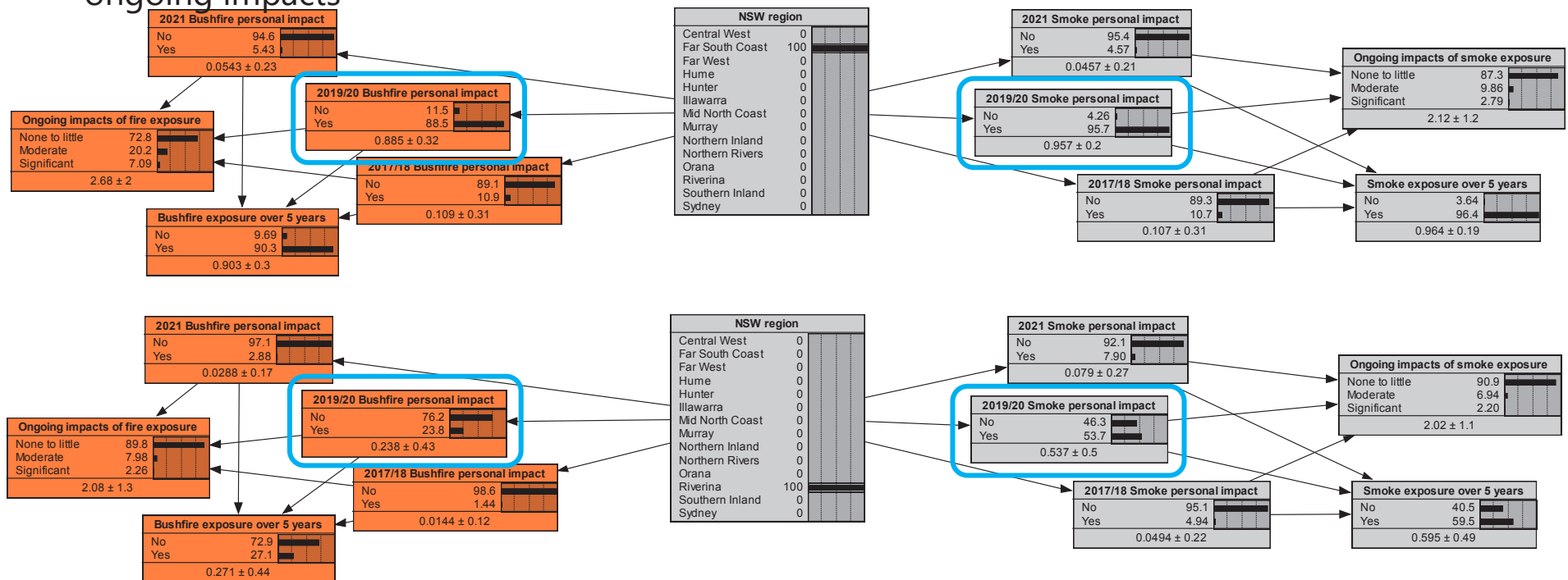
Analysis of exposure to natural hazards was undertaken in conjunction with analysis of the ongoing impacts of any exposure to natural hazards.

How is the indicator measured?

People's experience of being exposed to natural hazard was measured by asking survey participants (Regional Wellbeing Survey) whether they "Have personally experienced bushfire, smoke from bushfire, drought, flood, storm, earthquake and other natural hazards whether it happened near their home or at another location (e.g. you may have been on holiday)?".

Exploration of EWS data

- We used a Bayesian Network software package (Netica) to explore the 2021 survey data
- Self-reported impact of exposure to hazards (in 2021, 2019/20 and 2017/2018) and severity ongoing impacts



Potential development of natural hazard risk and ecosystem services indicators

- Explore the utility of other indicators

Category of Indicator	Indicators for future development
Natural Hazard risk	Heatwave-Excess Heat Factor
	Flood risk
	Fire- Forest Fire Danger Index
	Fire- Seasonal Bushfire outlook
	Flood- LGA's specific location studies
	Flood susceptibility index
	Climate Change effect on natural hazard
	Population living in high risk area
Ecosystem Services Provision	Environmental Water Quality Indicator - Algae
	Extreme weather absorption capacity
	Perceived Environmental Health
	Overall ecosystem health

- Identify, conceptualise and evaluate the interconnections between indicators
- Expand capacity to track and report on trend, frequency, composition and severity of natural hazards



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THANK YOU



The Institute for Water Futures acknowledges the Traditional Owners of Country throughout Australia. We pay our respects to Elders past, present and emerging, and celebrate the diversity of First Nations peoples and their ongoing cultures and connections to the lands and waters of Australia.



EARLY INSIGHTS FOR MORE RESILIENT COMMUNITIES **- PILOT DASHBOARD**



Early Insights for More Resilient Communities Pilot Dashboard

This dashboard visualises pilot indicators of resilience change in NSW communities.

Resilience is the capacity of individuals and communities to prepare for, respond to, recover from, and adapt to challenges (including natural hazard events) in ways that support healthy levels of wellbeing over the long-term. For each indicator, this dashboard helps you understand both current levels of resilience and change in resilience over time.

START EXPLORING

NSW view

LGA view

Indicator view

Early Insights for More Resilient Communities Pilot Dashboard

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START EXPLORING

NSW view



LGA view

Indicator view

Early Insights for More Resilient Communities

- Financial resources

- HOUSEHOLD FINANCIAL STRESS

What is the indicator?

The Household financial stress indicator identifies how prevalent self-reported household financial stress is in a community, by identifying the proportion of households who have experienced one or more significant household financial stress events in the last 12 months.

How is the indicator measured?

The household financial stress indicator is measured based on a survey item in which people are asked to identify which of the following financial stress events happened to them in the last year because they didn't have enough money: delaying or cancelling non-essential purchases; being unable to pay bills on times; going without meals or being unable to heat or cool their home; asking for financial help from friends or family; or none of these.

What does this indicator tell us about resilience?

Having financial resources is an enabler of resilience, as it enables households to invest in preparing for natural hazard events, to cope financially when an event is happening (e.g. through being able to afford initial repairs, or emergency accommodation or expenses), and to recover from these events (being able to afford long-term repairs and actions that 'build back better'. Experiencing financial stress events is an indicator that a household lacks the financial resources to support preparation, response and recovery and indicators lower resilience. If a growing number of households are experiencing financial stress,

Data source

University of Canberra Regional Wellbeing Survey.

- + Housing affordability
- + Living cost affordability

+ Mental health

+ Social resources

NSW

LGA

INDICATOR

GLOSSARY

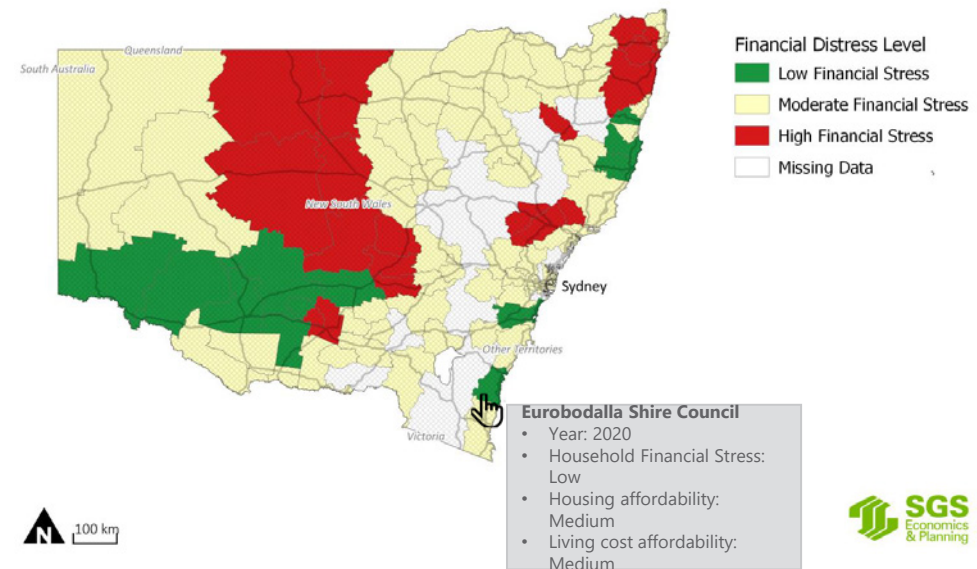


Resilience level Resilience change

2014

2020

2022



Early Insights for More Resilient Communities Pilot Dashboard

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START EXPLORING

NSW view

LGA view

Indicator view



Early Insights for More Resilient Communities

NSW

LGA

INDICATOR

GLOSSARY



Eurobodalla Shire Council




What can you find out about this local government area?

This dashboard contains information about the categories of resilience resources available to the community in this LGA – including financial resources, social connections, services, and others.

Many factors affect the levels of these resources, such as:

- Whether a community has a long term history of advantage or disadvantage,
- How many challenging events it has experienced in recent years (such as flood, fire, economic downturn, pest outbreak, drought),
- How severe the impacts of these events have been.

The dashboard tracks how the levels of resources that help a community cope with these events are changing.

Select indicator view: 
LGA OVERVIEW

Regional comparison

- NSW
- Regional NSW
- Metro NSW

Indicator	2014	2015	2016	2017	2018	2019	2020	2021	2022
Financial stress	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	High
Housing affordability	Mod	Mod	High	High	Mod	Mod	High	Mod	Mod
Cost of living	Mod	High	High	Mod	High	High	Mod	Mod	Mod
Psychological distress	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod
Personal wellbeing	High	Mod	Mod	Mod	Mod	Mod	Mod	High	High
...									

The cells indicate whether there was low, moderate, or high levels of each type of resilience resource in a given year. As the scale for each of these indicators differs, only the low, moderate, high classifications are shown.

LEGEND



Early Insights for More Resilient Communities

Eurobodalla Shire Council



What does this indicator tell you?

This indicator shows the % of residents experiencing high levels of financial stress in the previous 12 months, defined as experiencing two or more of the following 'household financial stress events':

- Had to delay or cancel non-essential purchases e.g. holiday, going to a restaurant or movie, buying clothes
- Could not pay bills on time e.g. electricity, rent, gas
- Went without meals, or was unable to heat or cool home
- Asked for financial help from friends or family.

Experiencing these events is an indicator that it is unlikely the household can easily prepare for, respond to, or recover from natural hazards, as they lack access to the financial resources needed for these things.


NSW

LGA

INDICATOR

GLOSSARY



Select indicator view: 
HOUSEHOLD FINANCIAL STRESS

Regional comparison

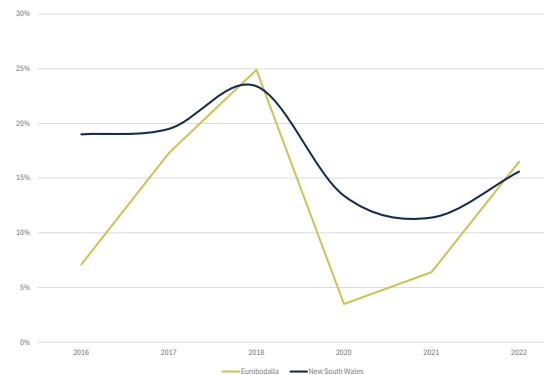
NSW

Regional NSW

Metro NSW

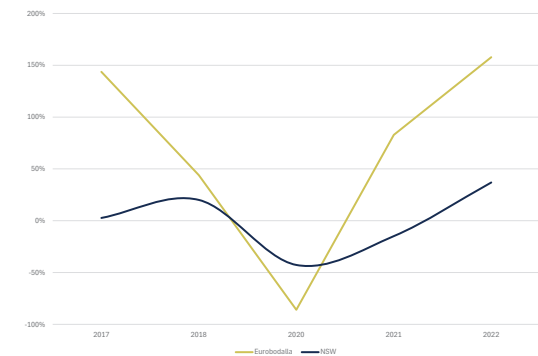


HOUSEHOLD FINANCIAL STRESS LEVELS: Eurobodalla Shire Council and NSW



Source: UC Regional Wellbeing Survey (RWS), 2014-22

CHANGE IN HOUSEHOLD FINANCIAL STRESS LEVELS Eurobodalla Shire Council and NSW



Source: UC Regional Wellbeing Survey (RWS), 2014-22

Early Insights for More Resilient Communities Pilot Dashboard

This dashboard visualises pilot indicators of resilience change in NSW communities.

Resilience is the capacity of individuals and communities to prepare for, respond to, recover from, and adapt to challenges (including natural hazard events) in ways that support healthy levels of wellbeing over the long-term. For each indicator, this dashboard helps you understand both current levels of resilience and change in resilience over time.

START EXPLORING

NSW view

LGA view

Indicator view



Early Insights for More Resilient Communities

NSW

LGA

INDICATOR

GLOSSARY



1. Select resilience indicator:

HOUSEHOLD FINANCIAL STRESS

2. Compare current levels / change over time?

Level of resilience

Change in resilience

3. Select LGA:

BEGA VALLEY SHIRE COUNCIL

4. Select comparison LGA:

EUROBODALLA SHIRE COUNCIL

The cells indicate whether there was low, moderate, or high levels of each type of resilience resource in a given year.

Refer left to the classification thresholds for the selected indicator.

Bega Valley Shire Council

2016	2017	2018	2020	2021	2022
15%	21%	22%	6%	12%	15%

Eurobodalla Shire Council

2016	2017	2018	2020	2021	2022
12%	17%	25%	4%	6%	17%

LEGEND

Low resilience >16% had two or more financial stress events in last 12 months	Moderate resilience 6% to 16% had two or more financial stress events in last 12 months	High resilience <6% had two or more financial stress events in last 12 months	Not Available
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Early Insights for More Resilient Communities

NSW

LGA


INDICATOR

GLOSSARY



SELECT INDICATOR:

Financial resilience resources

- Household financial stress 
- + Housing affordability
- + Cost of living

Human resilience resources

Social resilience resources

Infrastructure and services resilience resources

Liveability

Institutional resilience resources

Ecosystem services resilience resources

Natural hazard resilience resources

What is the indicator?

The Household financial stress indicator identifies how prevalent self-reported household financial stress is in a community, by identifying the proportion of households who have experienced one or more significant household financial stress events in the last 12 months.

How is the indicator measured?

The household financial stress indicator is measured based on a survey item in which people are asked to identify which of the following financial stress events happened to them in the last year because they didn't have enough money: delaying or cancelling non-essential purchases; being unable to pay bills on times; going without meals or being unable to heat or cool their home; asking for financial help from friends or family; or none of these.

What does this indicator tell us about resilience?

Having financial resources is an enabler of resilience, as it enables households to invest in preparing for natural hazard events, to cope financially when an event is happening (e.g. through being able to afford initial repairs, or emergency accommodation or expenses), and to recover from these events (being able to afford long-term repairs and actions that 'build back better'. Experiencing financial stress events is an indicator that a household lacks the financial resources to support preparation, response and recovery and indicators lower resilience. If a growing number of households are experiencing financial stress,

Data source

University of Canberra Regional Wellbeing Survey.

Level and change thresholds

High resilience <6% with high financial stress
Moderate resilience 6-16% with high financial stress
Low > 16% with high financial stress

WHAT'S NEXT?

Pilot project

- Testing pilot dashboard: you will be invited to test & provide feedback
- Closing second round of data collection of our new survey & publishing data tables
- Final report

Beyond this project

- Range of potential further work to build on the pilot
 - Expanding pilot dashboard
 - Increasing data availability through
 - ABS PLIDA project
 - Data access agreements
 - New data collection
 - Working with end users to support using data to inform decision making



THANK YOU

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