



Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Australia 6-10 April

Disaster Impact Information Services for the Australian Government

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PLATINUM SPONSORS



The most relevant SDGs related to the presentation and theme of this session

1st relevant SDG

17 PARTNERSHIPS FOR THE GOALS

2nd relevant SDG

11 SUSTAINABLE CITIES AND COMMUNITIES

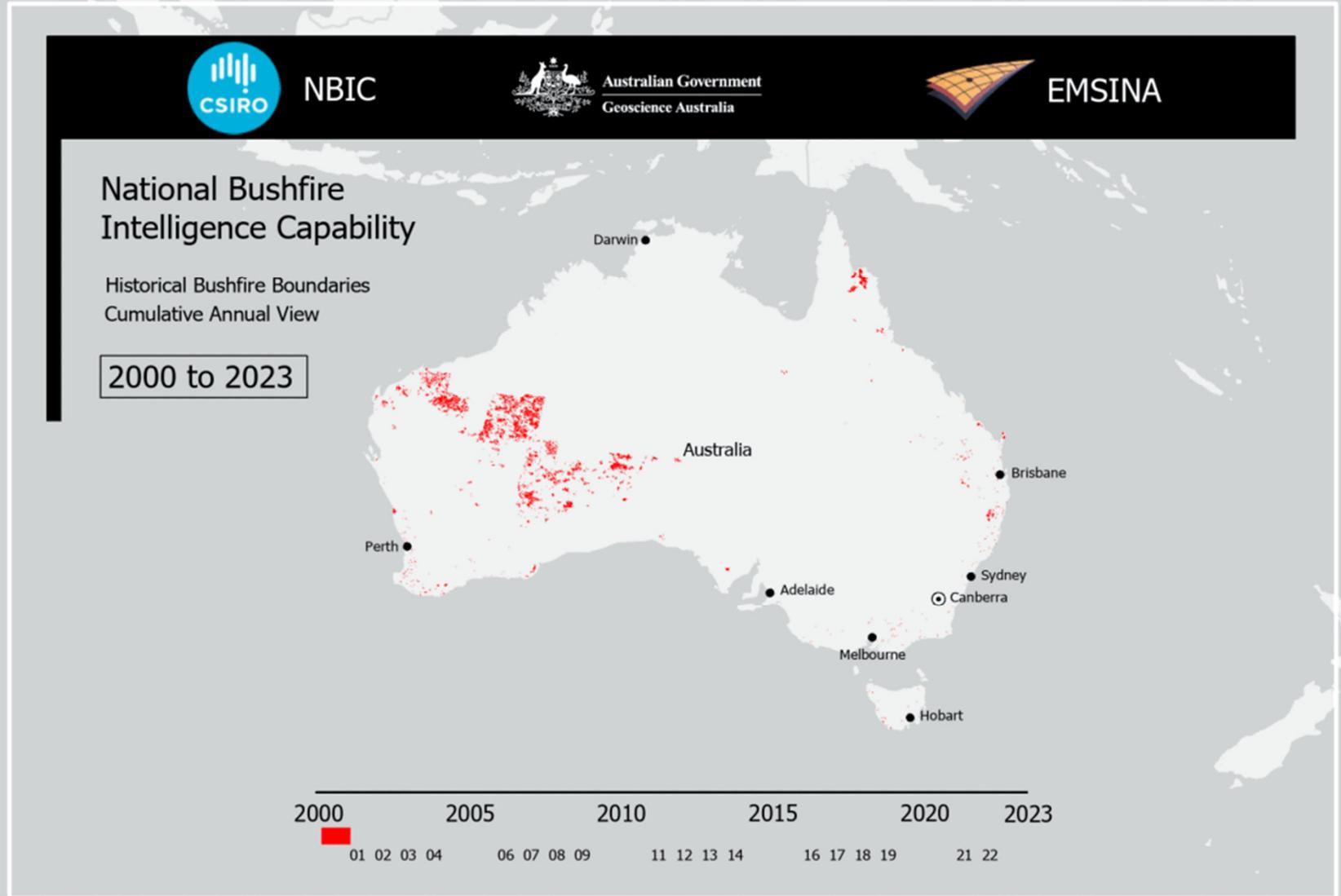
3rd relevant SDG

13 CLIMATE ACTION

SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals

Changing nature of hazards

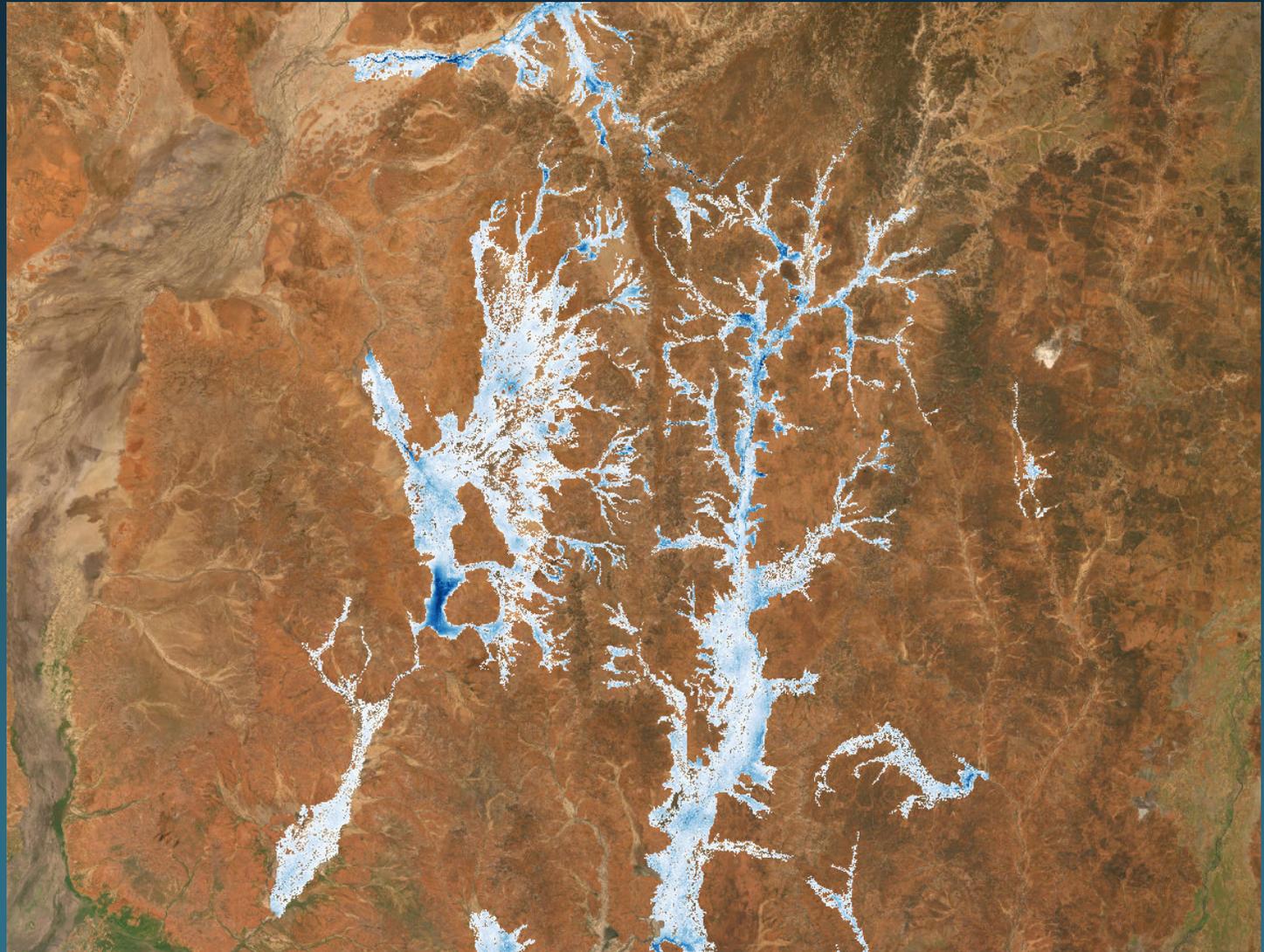


Product Built by Geoscience Australia 2023

Northern Territory Government, Esri, Garmin, FAO, NOAA, USGS



Changing nature of hazards



Queensland Flooding, ICEYE



Disaster Impact Analysis Service (DIAS)

Hazards

- Near Real Time Bushfire (DAA)
- Flood insights (ICEYE)
- Flood Rapid Analysis (ICEYE)

Administrative Boundaries

- Local government areas
- Statistical areas
- Local government areas

Built Domain

- Residential Addresses
- Roads
- Aged care facilities
- Hospitals

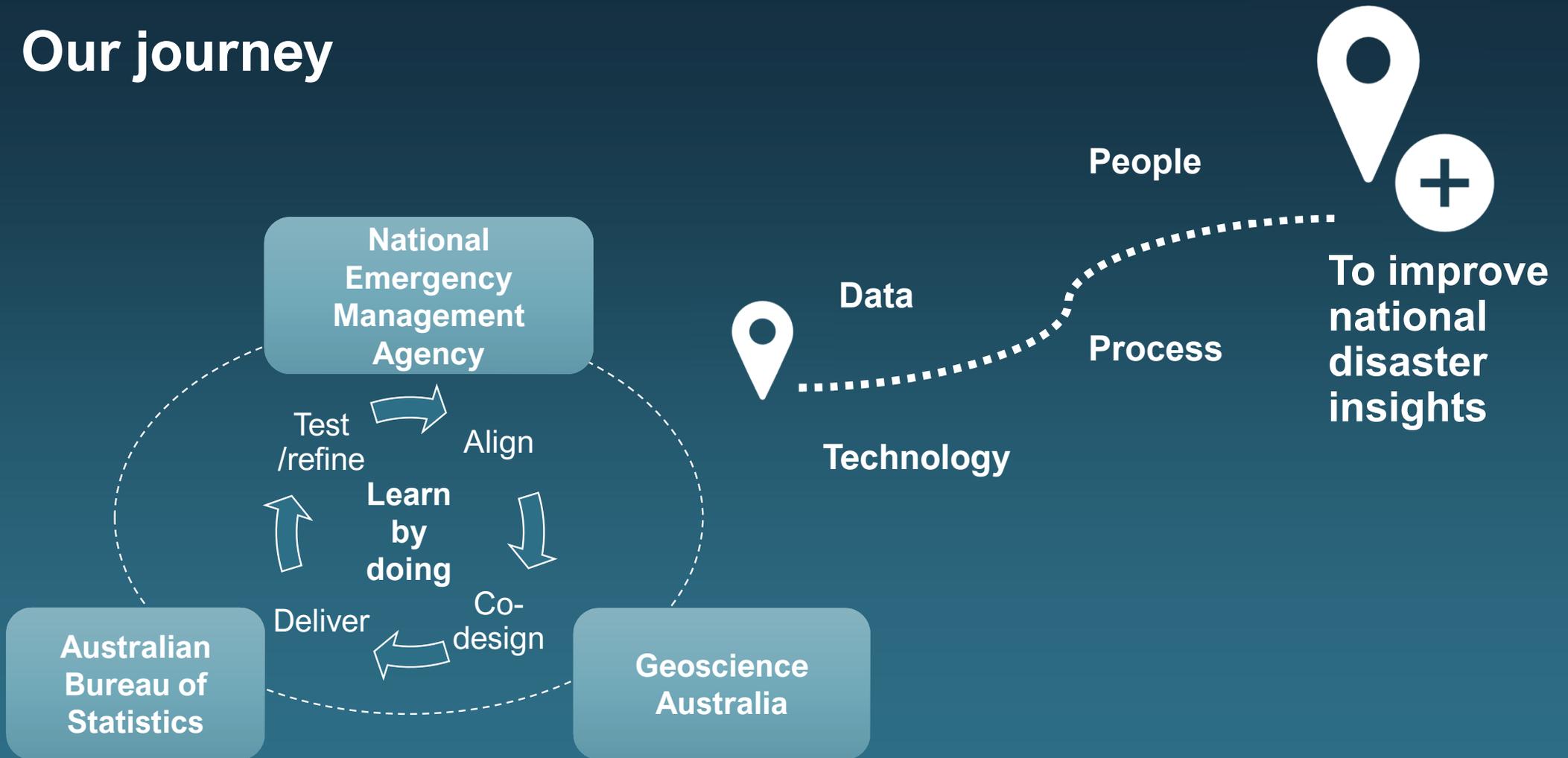
Social Domain

- Population (EMAPP)
- Selected ABS social and economic data

Economic Domain

- ABS Business Longitudinal Analysis Data Environment

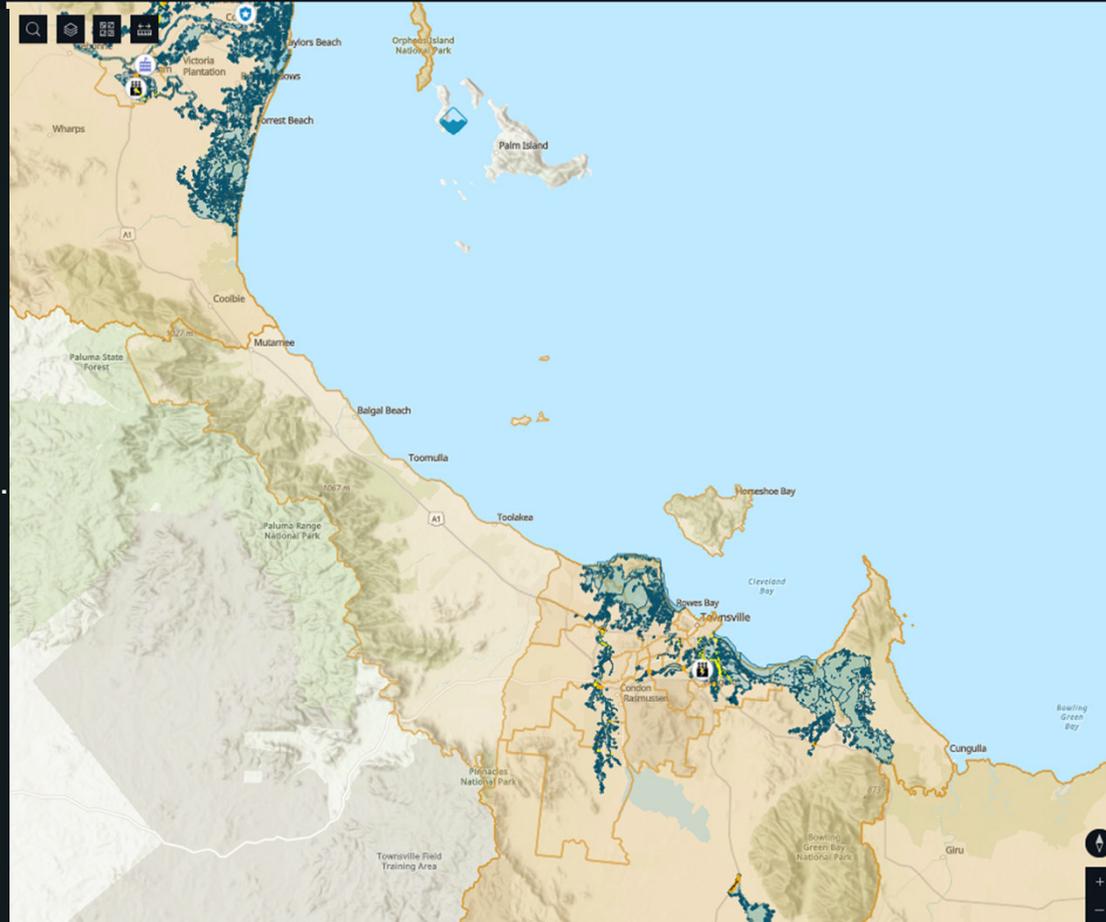
Our journey



North Queensland Flood Feb 25

Provides

- Automated hazard insights across domains.
- Assured/authoritative data from relevant custodians.
- Accessible interface for non-GIS users.
- Auditable analysis/results.
- Ongoing dynamic data pipeline.
- Analysis designed for the Australian scale.
- Data governance mechanisms.



Community Effected

(SA2)

Buildings

Residential	Commercial	Industry
929	1,270	1,335
Hospitals	Aged Care	Schools
215	0	1
Fire Stations	Ambulance Stations	Police Stations
0	0	1

Transport

Major Roads (km)	Railway Stations	
11	202	
Connectors (km)	Railway Lines	
12	858 km	
Local Roads (km)	Airports	Seaports
120	0	0

Power

Lines (km)	Major Stations	Substations
83,510	0	2

Improving over time

Disaster insights

Now

Response
Exposure insights

Next

Recovery
Impact insights

Later

Resilience
Mitigation insights

< LGA

SA2 >

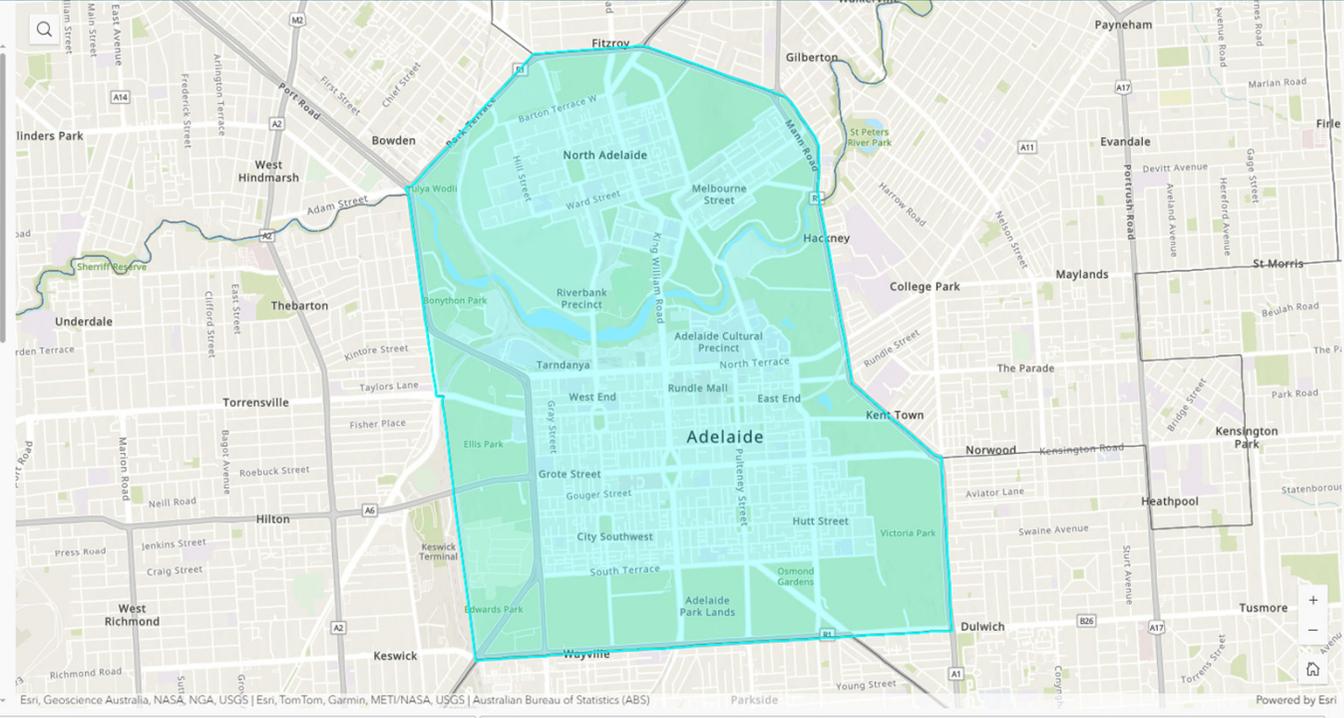
Region profile

Events

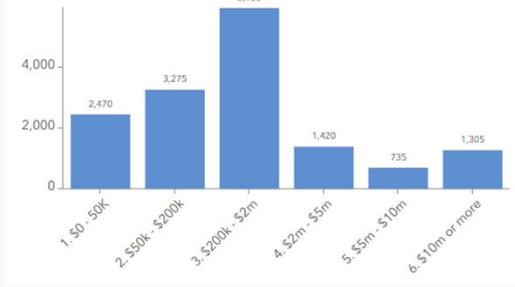
Hazards

Regions

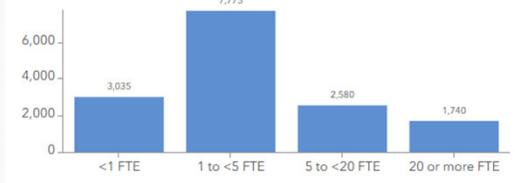
- Search Name Alphabetical
- Adelaide
 - Adelaide Hills
 - Adelaide Plains
 - Albany
 - Albury
 - Alexandrina
 - Alice Springs
 - Alpine
 - Anangu Pitjantjatjara Yankunytjatjara
 - Ararat
 - Armadale
 - Armidale Regional
 - Ashburton
 - Augusta Margaret River
 - Burukun
 - Barrat
 - Ballina



Businesses by Annual Turnover (No.)



Business FTE (full-time equivalent)



Social 14

Economic 15

Adelaide has a population of 27,901. It is in the **Below average disadvantage** socio-economic quintile. It is ranked **371** out of 566 LGAs (where 1 is the most disadvantaged LGA, and 566 is the least).

Population demographics

- 491 children younger than 4 years old, **1.9%** of the population, which is **Low** compared to other LGAs.
- 2388 children between 5-19 years old, **9%** of the population.
- 23,256 people between 20-74 years old.
- 1,766 people aged 75 years or over, **6.8%** of the population.
- 450 Aboriginal and Torres Strait Islander Peoples, **1.8%** of the population.

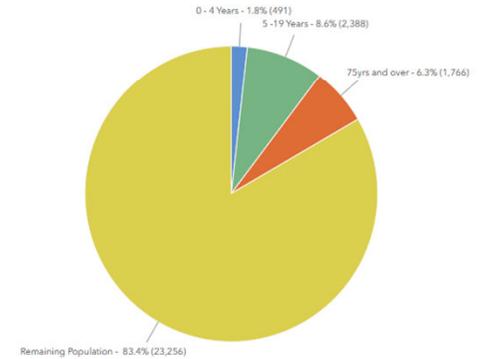
Vulnerable population

- 1,444 people with three or more chronic health conditions, **2%** of the population.
- 3,339 people with a disability, **13.8%** of the population.
- 850 people with a profound or sever limitation, **3.400000%** of the population.
- 1,008 people who are not proficient in English, **4.0%** of the population.
- 1,696 people with asthma and/or a lung condition, **6.8%** of the population.
- 159.0 homeless persons per 10,000 persons.

Households demographics

- 11116 total households.
- 1,717 low-income households, representing **16.1%** of total households with stated income.
- 6,618 rented occupied private dwellings, representing **59.5%** of total households.
- 769 social housing, representing **6.9%** of total households.
- 3,421 households without a motor vehicle, representing **30.8%** of total households.

Population Distribution (age)



About the data

DIAS Benefits



Increased efficiencies



Reliable data



National Consistency



Integrated Geospatial infrastructure

A way of collaborating for outcomes

