Willoughby City Council

informed decisions

2021 Census – overview of updated trends from the Census, and a focus on the social atlas and population forecasts.



























About .id at Willoughby City Council

.id is a company of demographers, housing analysts, forecasters and Census data experts.

We work with council to promote evidence-based decision making, consulting with you for grant funding applications, demographic and economic studies and advocacy.

We have been working with Willoughby City Council for over 12 years and the Council subscribes to .id's community profile, social atlas and economic profile tools.

This session focusses on the more recent second release results from the Census (workforce etc.) and provides an introduction primarily to the atlas, forecast and economy modules. community profile

understand your community over multiple timescales

social atlas

allocate your resources at a local level

hear community

community

views

views

housing monitor

monitor housing provision and affordability

economic profile

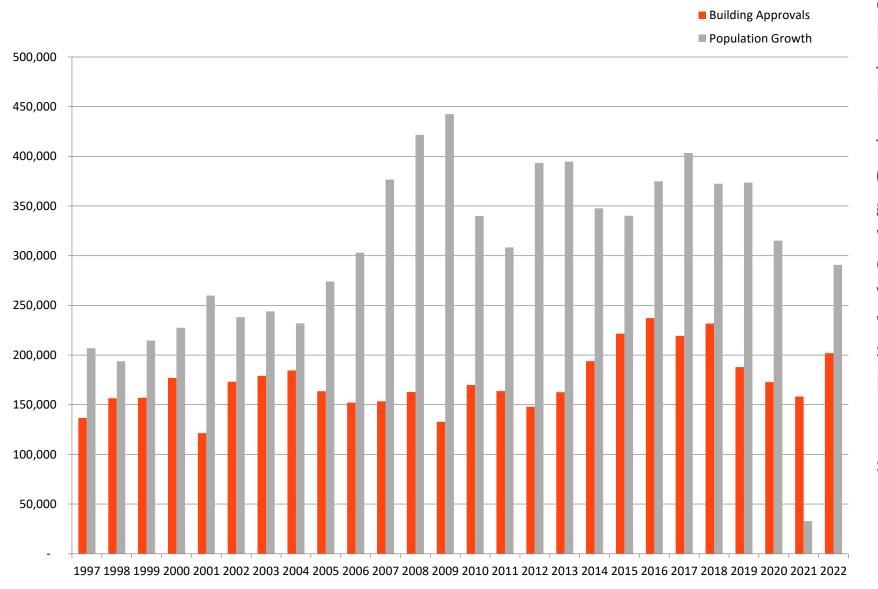
analyse jobs, industry and model economic change

population forecast

plan for the future based on a set of agreed assumptions



National population trends – growth bounce back after COVID



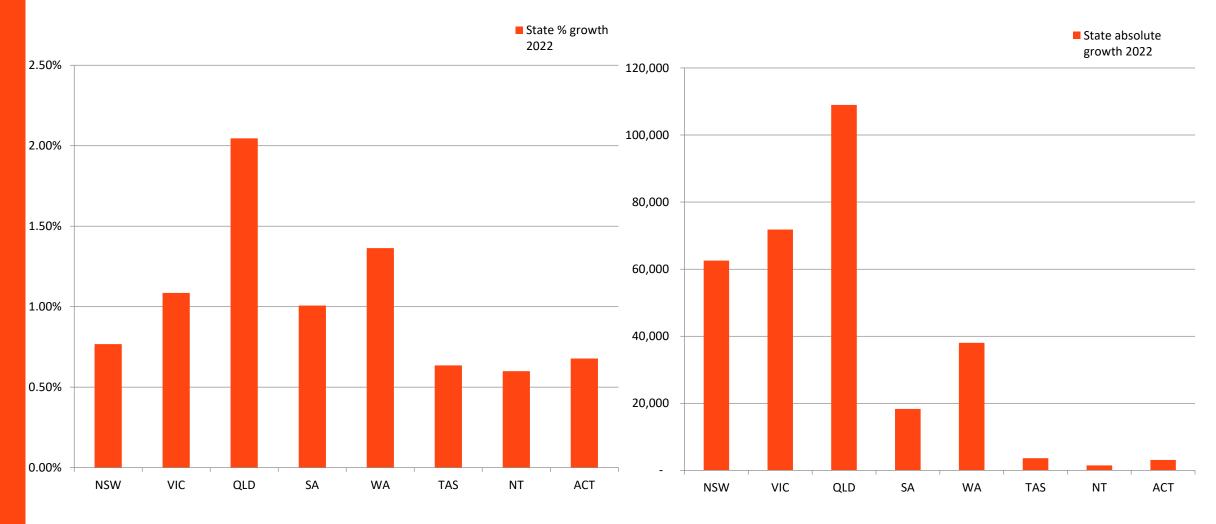
Australia ended a record period of population growth with COVID border closures. The year ended June 2021 was the lowest growth rate in over 100 years.

The growth rate for the year of 0.13% was the lowest national growth rate recorded since 1916, when the population declined due to World War I. The following year (FY 2022) saw a bounce back when the borders reopened, but still lower growth than the previous 15 years.

Building approvals were still quite strong however.



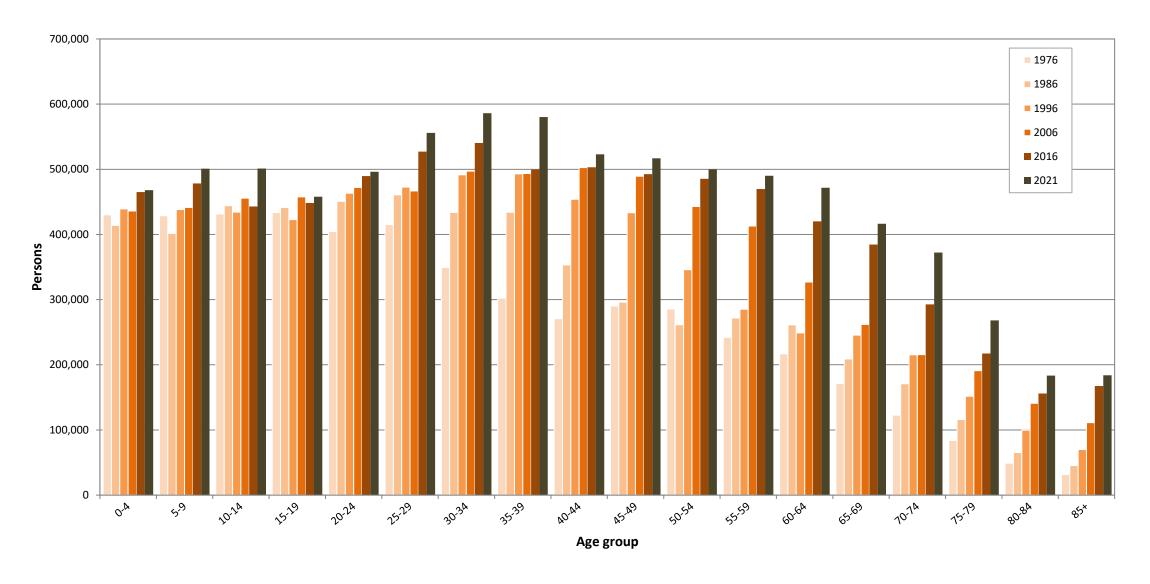
State population change – 2021-22 – percent and absolute

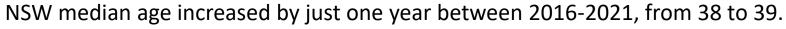


2022 saw a return to growth for all states and territories, with NSW showing a modest 0.8% growth after a flat 2021. Queensland's state growth is now far higher than any other jurisdiction.



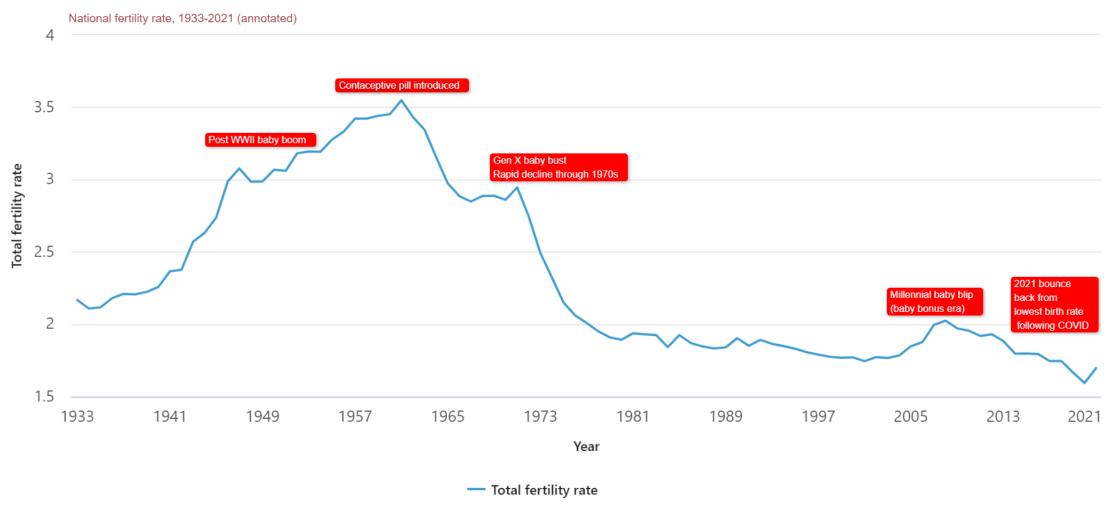
Population by 5 year age groups across 45 years, NSW







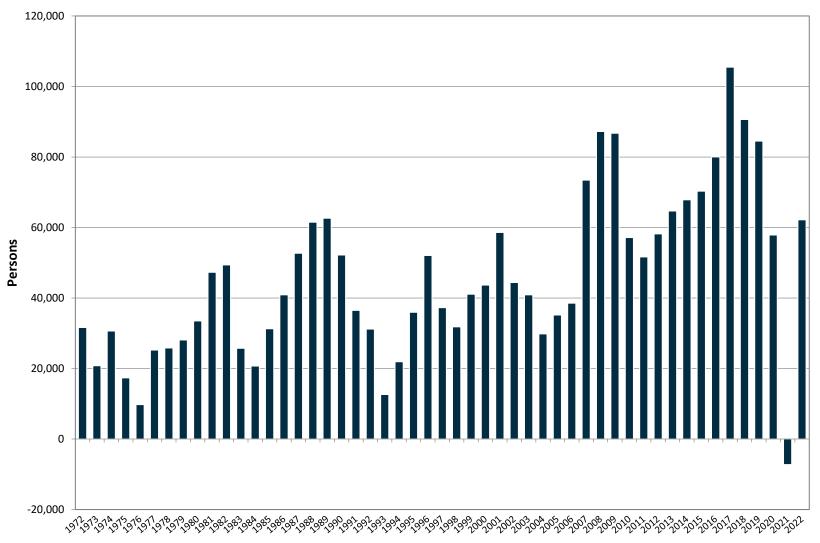
National fertility rate, 1932 to 2021







Net overseas migration – NSW, 1972-2021

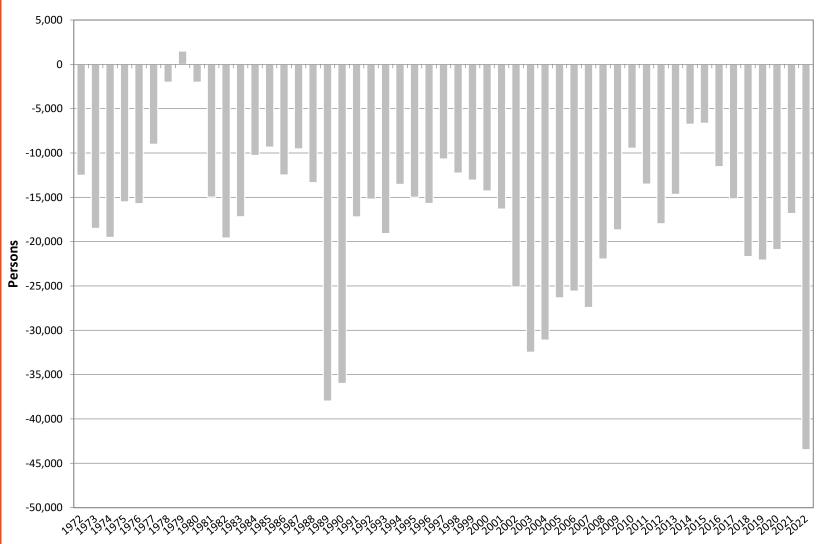


Overseas migration was negative for NSW in 2020-21, but came back strongly in late 2021/early 2022 when the borders reopened, reaching 60,000 for the year, lower than the last 10 years but still fairly strong, and approximately equalling total population growth.

As parts of Sydney get most of the overseas migration, the loss of migration during the pandemic had the largest effect on these areas.



Net interstate migration – NSW, 1972-2021

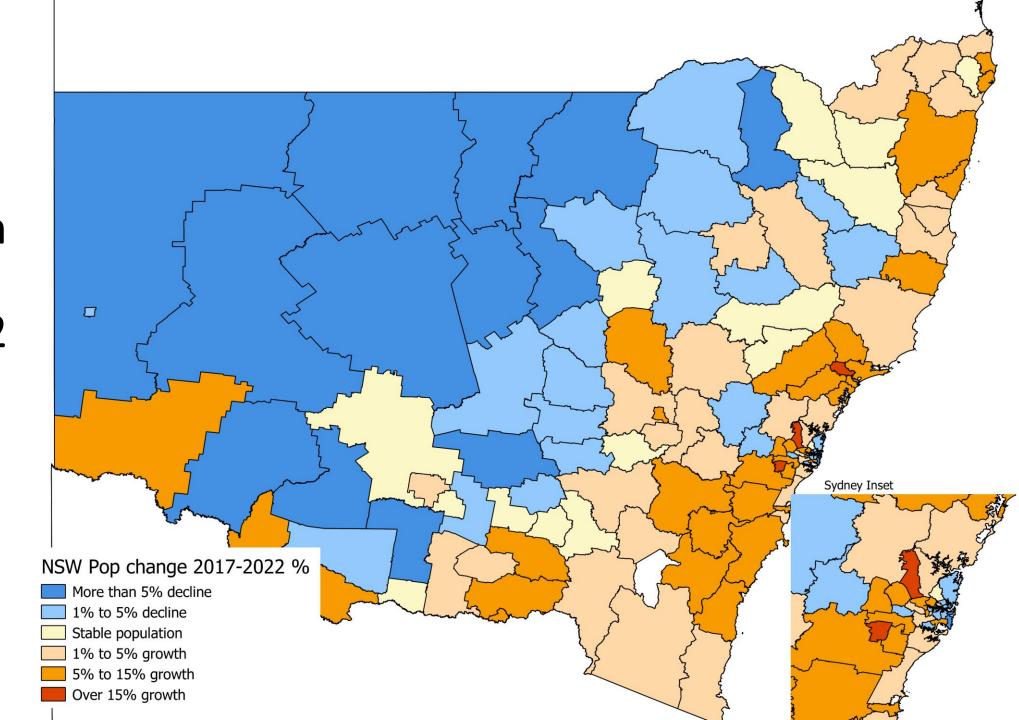


This is the strongest trend in NSW – substantial movement out to (mainly) Queensland and accelerating after lockdowns – 2022 was a record net migration loss (but moderating towards the end of the financial year after lockdowns ended).

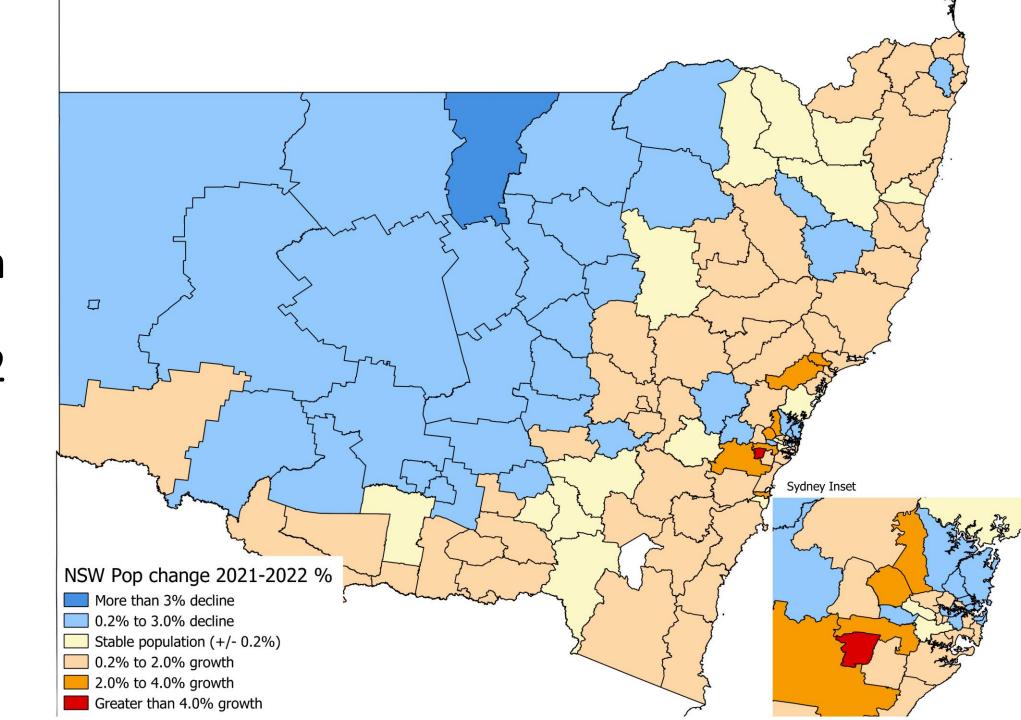
There is also a strong movement out of Sydney to the urban fringe and to Regional NSW, with the widespread availability of Work From Home.



NSW LGA population change, 2017-2022



NSW LGA population change, 2021-2022



Population trends in 2021 (and change from 2016)

TREND	Willoughby Council	New South Wales
Population (ERP – 2021)	76,034 (-1,854 people, -2.3%)	8,093,815 (+360,957, +4.7%)
Population (Census – 2021)	75,613 (+1,311 people, +1.8%)	8,072,163 (+591,935, +7.9%)
Dwelling change 2016-2021	31,170 dwellings (+1,149, +3.8%)	3,364,777 (+297,791, +9.7%)
Average household size	2.58 (-0.02)	2.57 (-0.04)

NSW population estimate is now very close to the Census count because so many more people were counted at home due to lockdowns. For most areas, the Census count has grown more than the population, and Willoughby is no exception. In fact the ABS now says that Willoughby had negative population growth over 5 years (all due to the last 2) yet the Census count actually increased, with fewer people overseas. Dwelling growth is higher again but average household size declined and there were more unoccupied dwellings, with less visitors staying in the area over the COVID lockdown period.

Population trends – 10 years

Small area	2021	2016	2011	5 year change	10 year change
Artarmon	9,417	9,568	8,623	-1.6%	9.2%
Castle Cove - Middle Cove	3,974	3,882	3,797	2.4%	4.7%
Castlecrag	2,965	2,938	2,965	0.9%	0.0%
Chatswood	25,553	24,951	21,004	2.4%	21.7%
Chatswood West - Lane Cove North	3,707	3,694	3,510	0.4%	5.6%
Naremburn	5,924	5,881	5,433	0.7%	9.0%
North Willoughby - Willoughby East	6,022	6,004	5,754	0.3%	4.7%
Northbridge	6,493	6,348	5,925	2.3%	9.6%
Roseville	2,321	2,388	2,272	-2.8%	2.2%
St Leonards	2,106	2,200	2,026	-4.3%	3.9%
Willoughby	7,124	6,448	6,034	10.5%	18.1%
Willoughby City	75,613	74,302	67,355	1.8%	12.3%
Greater Sydney	5,231,147	4,823,991	4,391,636	8.4%	19.1%
New South Wales	8,072,163	7,480,228	6,917,601	7.9%	16.7%
Australia	25,422,797	23,401,890	21,504,691	8.6%	18.2%

2022 population update (1-year and components of change)

TREND	Willoughby	New South Wales
Population (ERP – 2022) and growth (1-year)	75,409 (-625, -0.8%)	8,156,386 (+62,571, +0.8%)
Components of change (1-year)	Natural increase: +236 Overseas migration: +1,086 Internal migration: -1,947	

Thought not losing population at the same rate as the pandemic, the latest figures show that Willoughby continued to decline in population in 2021-22. The components of change show that this is entirely due to continued migration outward to other parts of Australia.



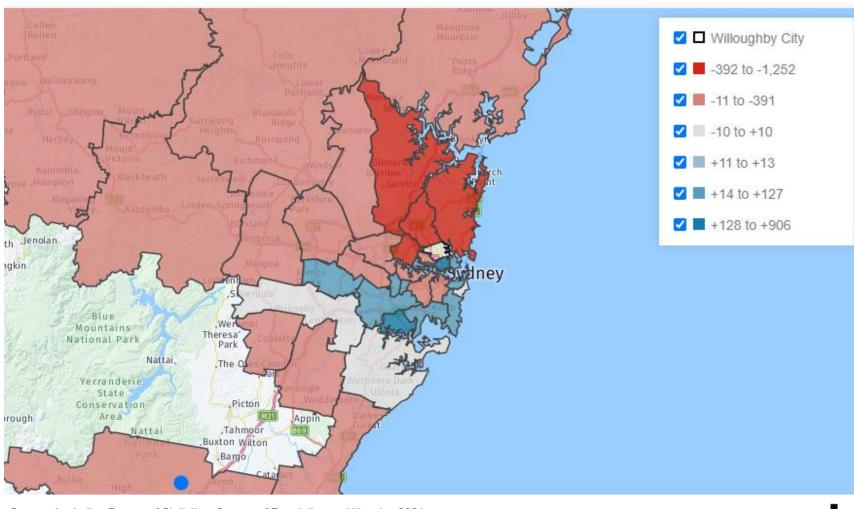
Migration (5 yearly)

For Willoughby, most migration is within a corridor, from central Sydney towards the north Shore and Central Coast. There is a large net loss in this direction, as well as further north to coastal areas of NSW and South East Queensland.

Main areas of movement to and from Willoughby City Council in 5 years 2016-2021	Numbers
North Sydney	+906
Georges River	+250
Randwick	+127
Mosman	+73
Ku-ring-gai	-1,252
Ryde	-856
Northern Beaches	-630
Hornsby	-559
Parramatta	-391
Central Coast	-362

Map of net gains and losses by LGA

Willoughby City Council - between 2016 and 2021



Source: Australian Bureau of Statistics, Census of Population and Housing 2021. Compiled and presented in profile.id by .id (informed decisions).

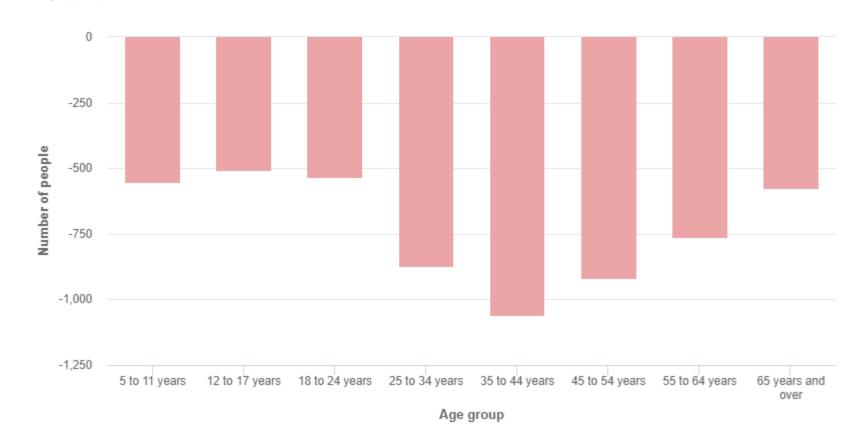


Migration (5 yearly)

There was negative movement out in every age group, but particularly family formation ages in their 20s and 30s.



Willoughby City



Source: Australian Bureau of Statistics, Census of Population and Housing, 2021 (Usual residents data). Compiled and presented in profile.id by id (informed decisions).



profile.id and atlas.id

- Online information tool, for council staff, and for the public.
- 1991, 1996, 2001, 2006, 2011, 2016 and 2021 Census data.
- 39 demographic topics to tell the story of your changing area.
- Broken into 11 suburbs, 4 wards and a Chatswood CBD overlay - with full Census data for each, for all years where available.
- Detailed migration and SEIFA datasets.
- Reporting and data export options designed to integrate with other output tools.
- Communities of Interest module with specific information about sub-population groups.
- 2021 Census data rollout is now complete
- Monthly building approvals and JobSeeker updates.
- http://profile.id.com.au/willoughby
- Atlas spatial mapping to pinpoint communities of interest and points of disadvantaged population.
- http://atlas.id.com.au/willoughby DEMONSTRATION

profile.id

community profile

understand your community over multiple timescales

social atlas

allocate your resources at a local level

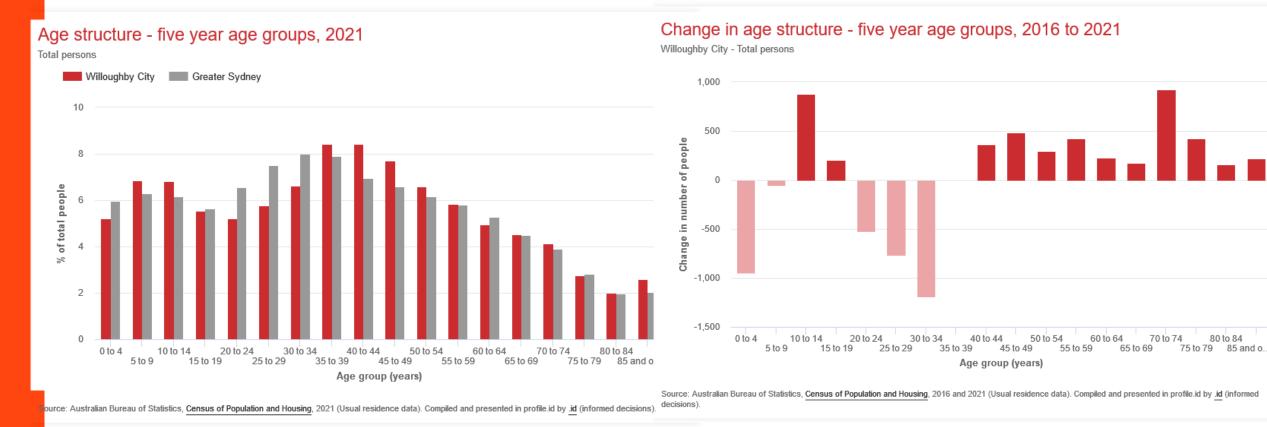
nousing nonitor

population forecast

economic profile



Willoughby City Council Age Structure 2021



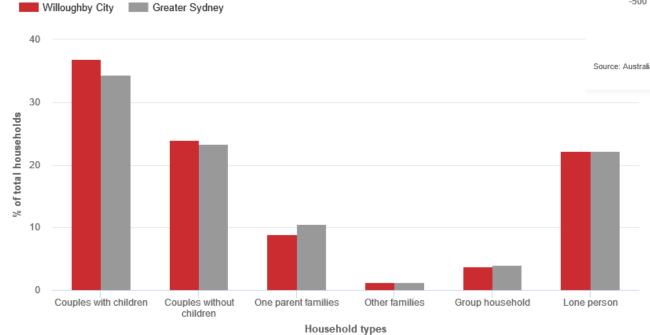
Willoughby has an age structure similar to Sydney overall, but with a few more families and older children, as well as a few more elderly. The median age of 39 has aged 2 years in the past 5, and most of the population growth has been among older children, and baby boomers ageing into their 70s, while families with young children declined.



Household type trends

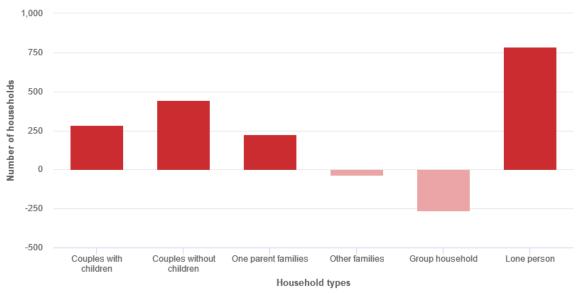
Family households are dominant, particularly those with children

Household type, 2021



Change in household type, 2016 to 2021

Willoughby City

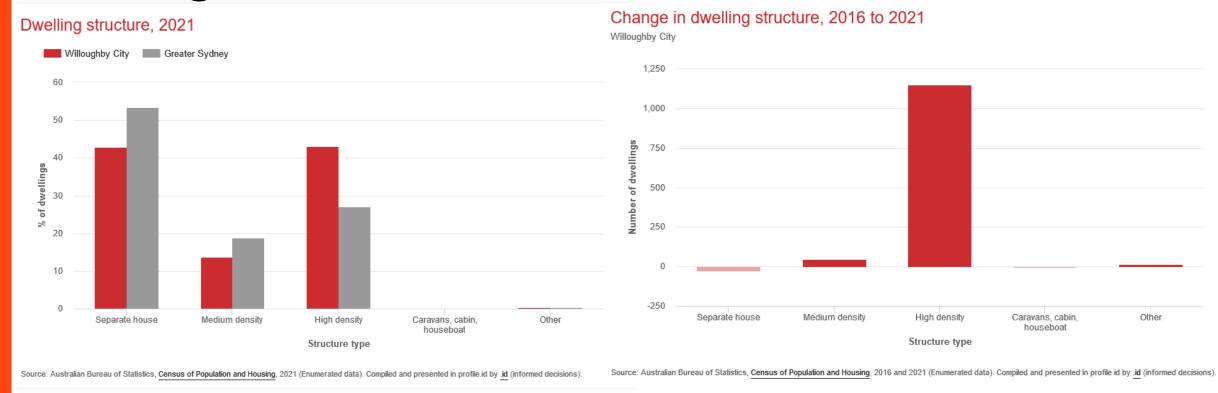


Source: Australian Bureau of Statistics, Census of Population and Housing, 2016 and 2021 (Enumerated data). Compiled and presented in profile id by .id (informed decisions).

There is a significant shift into lone person and couples without children households, and away from the group households — as students and young migrant households are less prominent due to border closures.



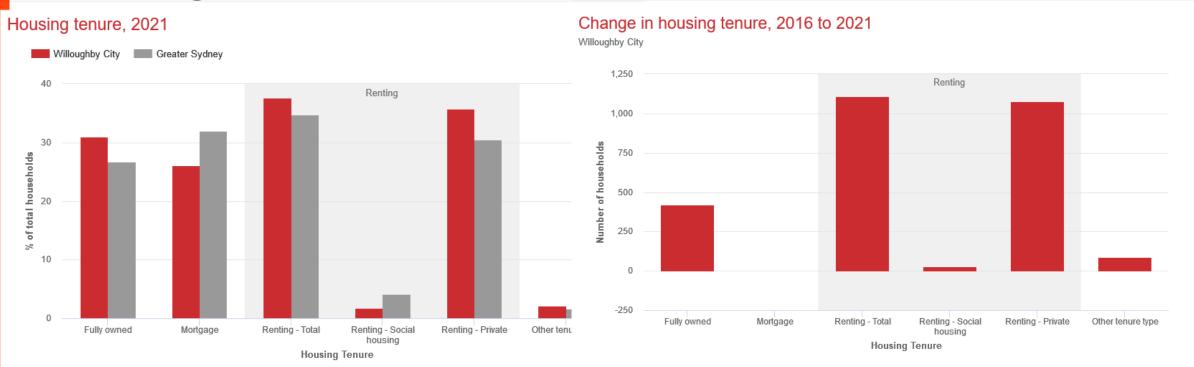
Housing trends



With a large increase in high density dwellings of 1-2 bedrooms, it's a little surprising that household size has not fallen by more.



Housing trends



Source: Australian Bureau of Statistics, Census of Population and Housing, 2016 and 2021 (Enumerated data). Compiled and presented in profile.id by _id (informed decisions).

Source: Australian Bureau of Statistics, Census of Population and Housing, 2016 and 2021 (Enumerated data). Compiled and presented in profile.id by _id (informed decisions).

Full home ownership is quite high, with a slightly older population contributing to this. But renting has increased the most in the last 5 years.



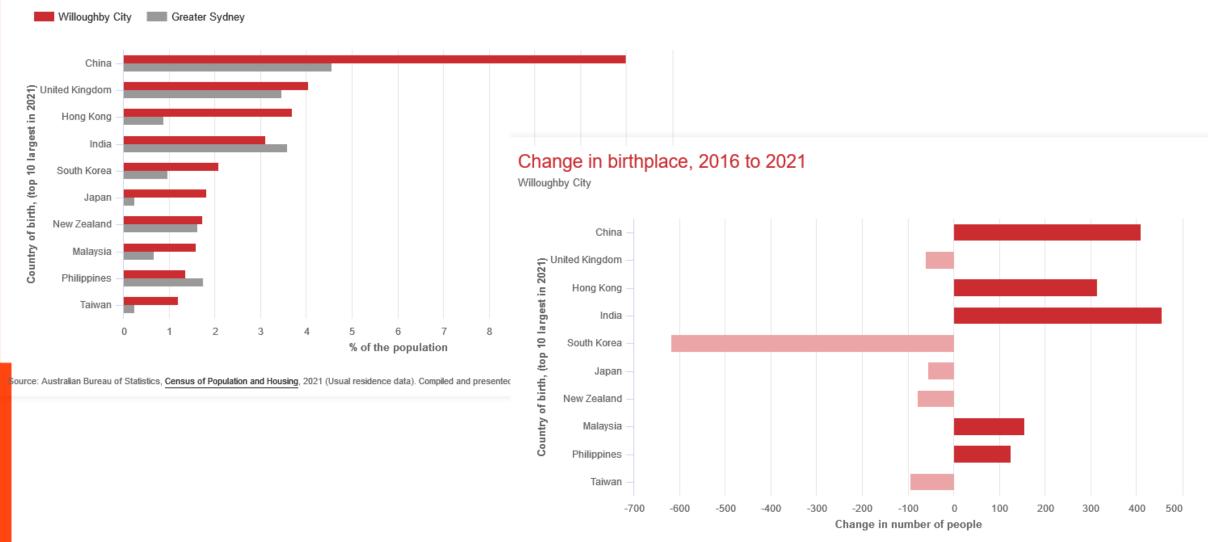
Diverse populations

TREND	Willoughby City Council	New South Wales
Aboriginal and Torres Strait Islander (First Nations)	208 people, 0.3%	3.4%% (+0.5%)
Overseas-born	35,168 people, 46.5%, (+1.1%)	29.3% (+1.7%)
Speaking non-English language at home	31,035 people, 41.0% (+0.8%)	26.6% (+1.5%)
No Religion/secular	43.4% (+6.6%) Main religions – Catholicism, Anglican	33.0% (+7.6%)



Countries of Birth

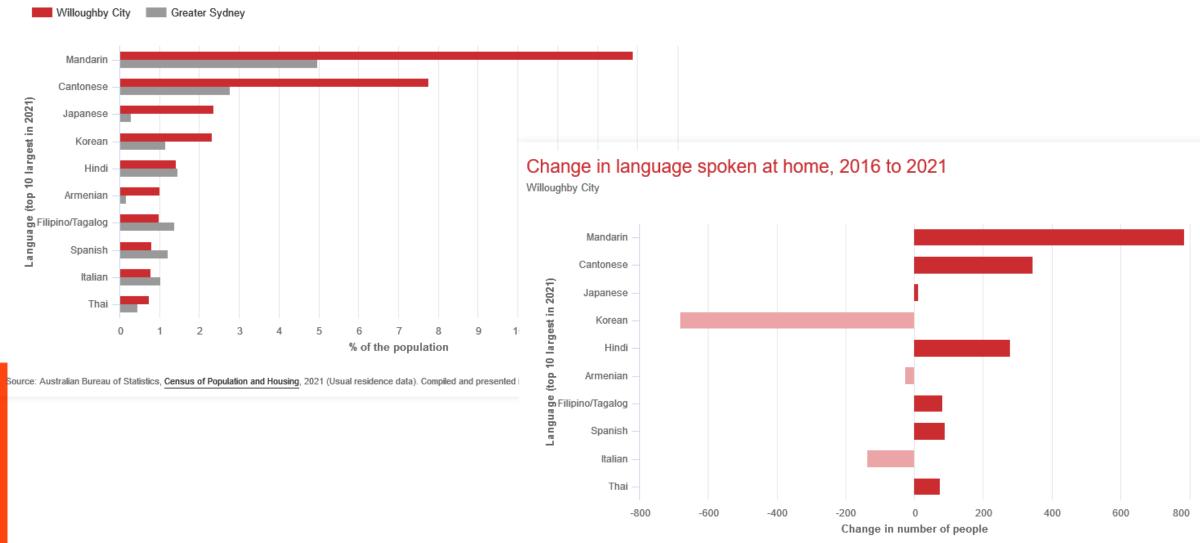
Birthplace, 2021





Languages spoken

Language spoken at home, 2021



Willoughby City Council, Language other than English, 2021, Usual residence, Persons Lindfield ☑ □ SA1 500 m Golf Course Echo Point Lindfield 2000 ft Park Roseville ☐ ☐ Suburbs Manly Chase Platform 2 Reservoir Macquarie park Ave ☑ ☐ Willoughby City Park Bantry Reserve 0% Sir Philip 9.1% to 24.9% Game Reserve Roseville Victoria St Station Roseville Park -North 25.0% to 37.4% Station Balgowlah 37.5% to 51.4% 51.5% to 66.1% 66.2% to 87.1% Percentage of: Total Persons Golf Club Seaforth North Balg Peacock St Ryde Ellery Pde Dethi-Rd Clontarf Middle North Ryde Fisher Bay Common Reserve Middle Harbour Park Nature East Spit West Stringybark Reserve Reserve Ryde Park Lower Creek Stringybark Creek Reserve Quakers Hat Blackman Park Northbridge Field of Golf Club Lane Field of Mars Mars Cove Lane Cove thbridge Reserve West Park Rosherville Reserve Source: Australian Bureau of Statistics, Census of Population and Housing, 2021 (Usual residence data). Compiled and presented in Creek residence data, compiled and presented in atlastid by .id (informed decisions), Note: Due to changes in the ABS rules regarding perturbation of small numbers to protect the confidentiality of individuals in 2016, the totals of all SA1s in an area may not equal the total Galston Awaba St Lane Cove Sofala Ave Bushland Country Club Carter St Burns Bay Reserve derived from the area as a whole. Cammeray Riverview Mosman Crows Linley River Rd Sydney Park Ernest St Point Nest Longueville Greenwich

Falcon St

Wollstonecraft Wollstonecraft

Lindsay Ln

Leaflet | Here.com

Cremorne spencer Rd

Neutral Bay

Riverview

College Wharf

Point

Gladesville

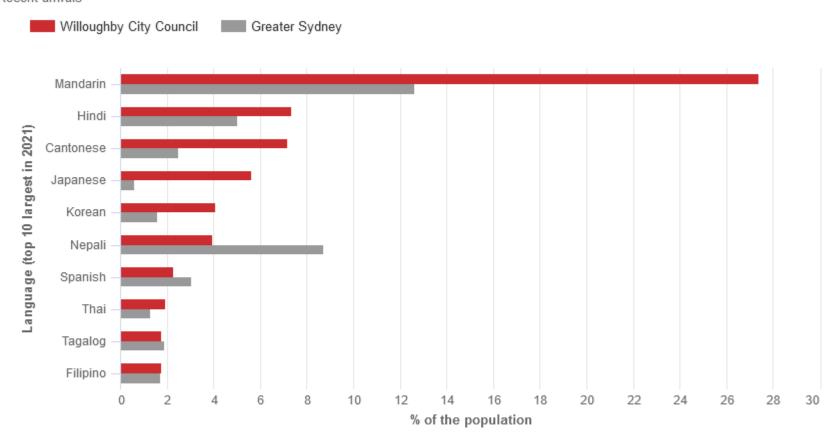
Northwood



Languages spoken by recent arrivals

Language spoken at home, 2021

Recent arrivals



Source: Australian Bureau of Statistics, Census of Population and Housing, 2021 (Usual residence data). Compiled and presented in profile.id by .id (informed decisions).



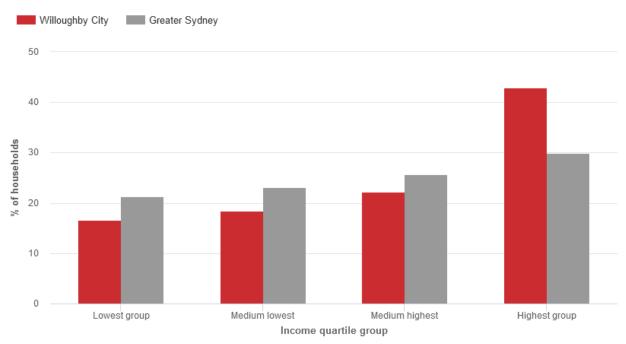
Socio-economic

TREND from 2016 to 2021	Willoughby City	New South Wales
Median weekly household income	\$2,556 +13%	\$1,829 +23%
Median weekly rental payment	\$571, -4%	\$420 +11%
Median weekly mortgage payment (pre- RBA interest rate increases)	\$761 +17%	\$500 +9%
SEIFA Index of Advantage/Disadvantage	1,142	Willoughby is the 8 th most advantaged LGA in NSW. Only really one pocket of disadvantage, in Artarmon.



Household income

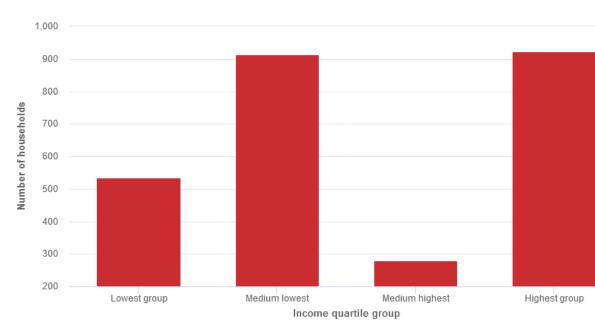
Household income quartiles, 2021



Source: Australian Bureau of Statistics, Census of Population and Housing, 2021 (Enumerated data). Compiled and presented in profile id by .id (informed decisions).

Change in household income quartile, 2016 to 2021

Willoughby City



Source: Australian Bureau of Statistics, Census of Population and Housing, 2016 and 2021 (Enumerated data). Compiled and presented in profile id by .id (informed

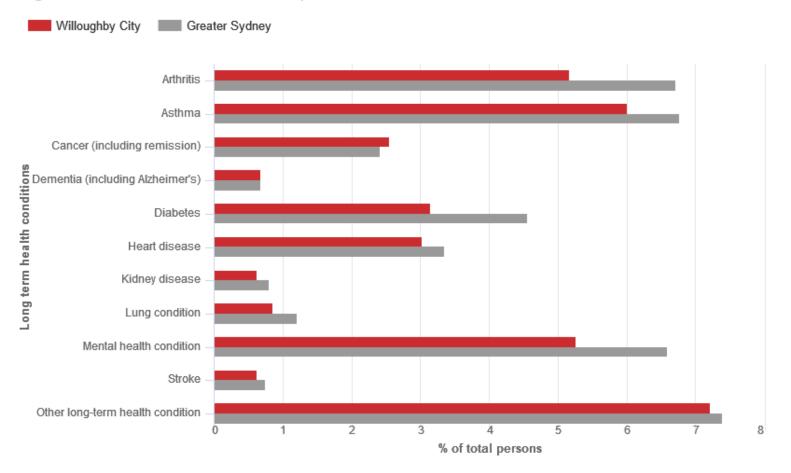


SEIFA Index of Advantage/Disadvantage

Willoughby City Council, Index of Relative Socio-economic Advantage and Disadvantage, 2021, Usual residence, Number SA1 Golf Course Echo Point 2000 ft Roseville ☑ □ Suburbs Platform 2 Chase Macquarie Park ■ Willoughby City Reserve 712 to 1.026 Game Reserve Roseville Park -North Roseville Station Balgowlah 1,147 to 1,180 Roseville Castle Cove - Middle Cove 1,181 to 1,221 Seaforth Balo Peacock St Ryde Ellery Pde North Willoughby - Willough Clontarf Middle **Vorth Ryde** Castlecrag Fisher Bay Chatswood West - Lane Cove North Middle Harbour Wallumatta Nature East Spit West Reserve Reserve Ryde Lower Creek Creek Reserve Quakers Hat Northbridge Field of Lane Cleg St West Rosherville Source: Australian Bureau of Statistics, Census Naremburn of Population and Housing, 2021 (Usual residence data). Compiled and presented in atlas.id by .id (informed decisions). Note: Due to changes in the ABS rules regarding Lane Cove perturbation of small numbers to protect the Bushland Country Club Burns Bay confidentiality of individuals in 2016, the totals of all SA1s in an area may not equal the total Reserve derived from the area as a whole. Cammeray Riverview Crows Linley Sydney Nest Ernest St Greenwich Longueville Riverview Northwood Point College Wharf Cremorne Spencer Rd

Long term health conditions

Long term health conditions, all persons, 2021



Source: Australian Bureau of Statistics, Census of Population and Housing, 2021 (Usual residence data). Compiled and presented in profile id by .id (informed decisions).

The new Census topic sheds a light on the number of people living with a chronic health issue.

Willoughby has a relatively low rate of all health conditions, with 24.8% of the population reporting at least one condition. Lower than the state average of 30.9%.

The rate of cancer is a little higher.



forecast.id

- Currently online for Willoughby City.
- Online information tool, for council staff, and for the public.
- Population, household, dwellings, age structure and household type
- 2016 to 2036, in individual years.
- Broken into detailed suburbs and precincts to understand development patterns.
- Politically independent.
- Based on council input on land supply, current housing policy, and .id's assessment of ongoing demand.
- Incorporates both national and state trends, and local trends at the suburb level.
- Updated to match 2021 Census, further update of assumptions and extension to 2046 shortly.
- http://forecast.id.com.au/willoughby DEMONSTRATION

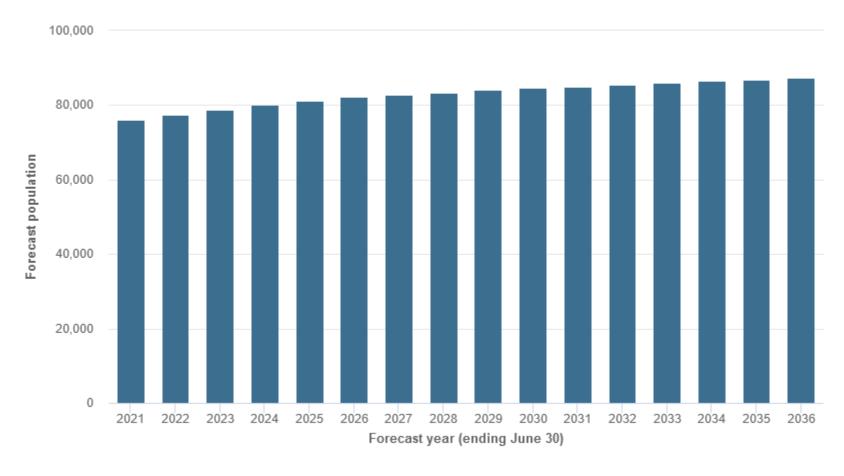




Forecast population

Forecast population

Willoughby City Council



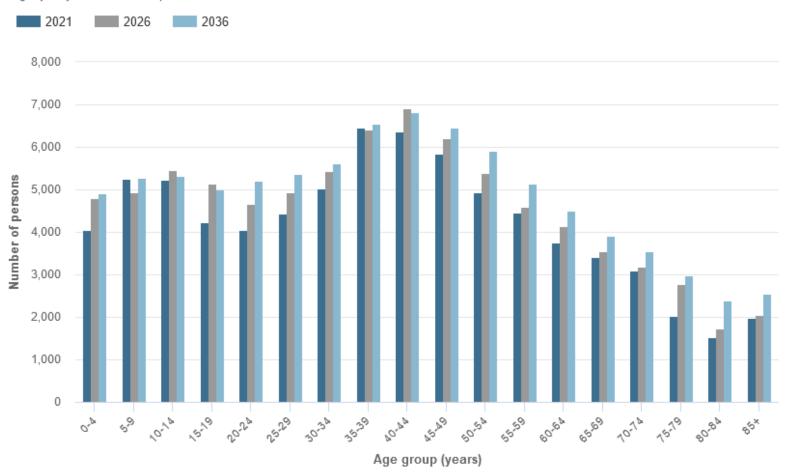
Source: Population and household forecasts, 2021 to 2036, prepared by .id (informed decisions), January 2023.



Forecast population

Forecast age structure - 5 year age groups

Willoughby City Council - Total persons



Growth in most age groups, but more among the older groups than the younger expected by 2036.

Most of the growth is due to new higher densities in Chatswood CBD. This does not take into account recent population declines.





economy.id

- Annually updated, modelled economic data including jobs every year.
- Size of the economy, value and employment in 87 industry sectors
- Detailed journey to work information by industry and occupation.
- Track individual industry change over 15 years.
- Detailed worker profiles and characteristics.
- Economic modelling tool what if? Analysis
- Event impact calculator
- Tourism information
- http://economy.id.com.au/willoughby

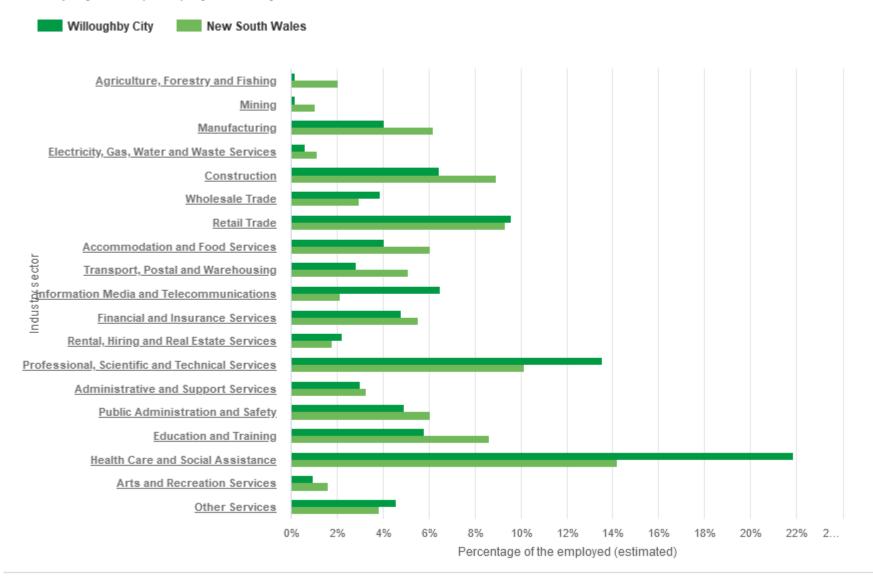
- Census data in economy.id is now updated to 2021. Economic modelled data features 2021-22 financial year.
- DEMONSTRATION INCLUDING IMPACT TOOLS





Willoughby's workforce

Employment (total) by industry 2021/22

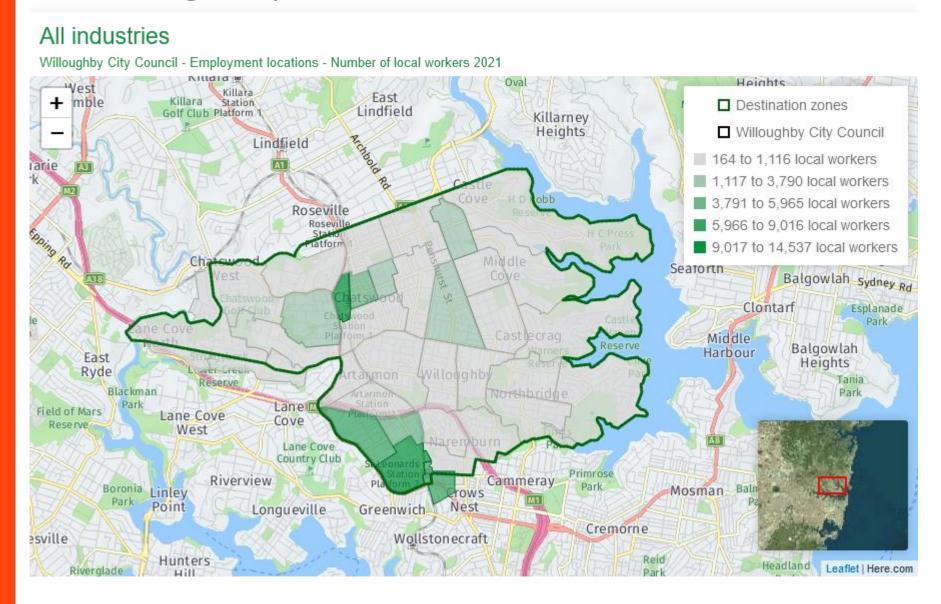


Willoughby's \$12.4 billion economy employs about 70,000 people, with the largest share in Health Care and Social Assistance, and Professional, Scientific and Technical services.

Information, Media and Telecommunications has the largest location quotient, indicating it's an unusual specialty industry in Willoughby.



Willoughby's workforce



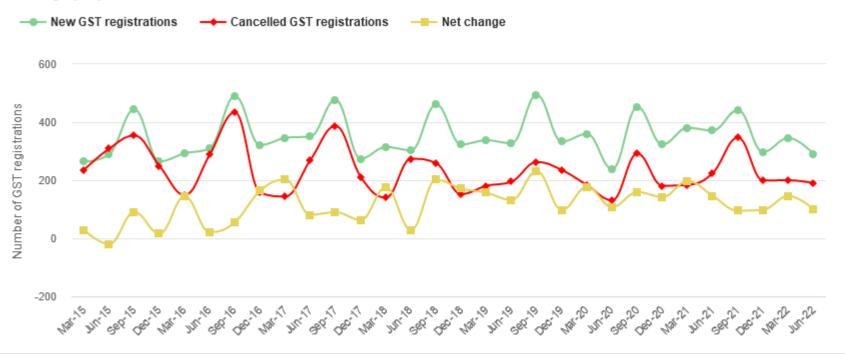
Census shows most of the jobs are in two nodes — Chatswood CBD and St Leonards.



Willoughby's workforce

Change in GST registered business

Willoughby City - All industries



Over 14,000 registered and active businesses with consistent growth every quarter in the registered numbers.

DEMONSTRATION:

Economic Impact Model and Event Impact Calculator

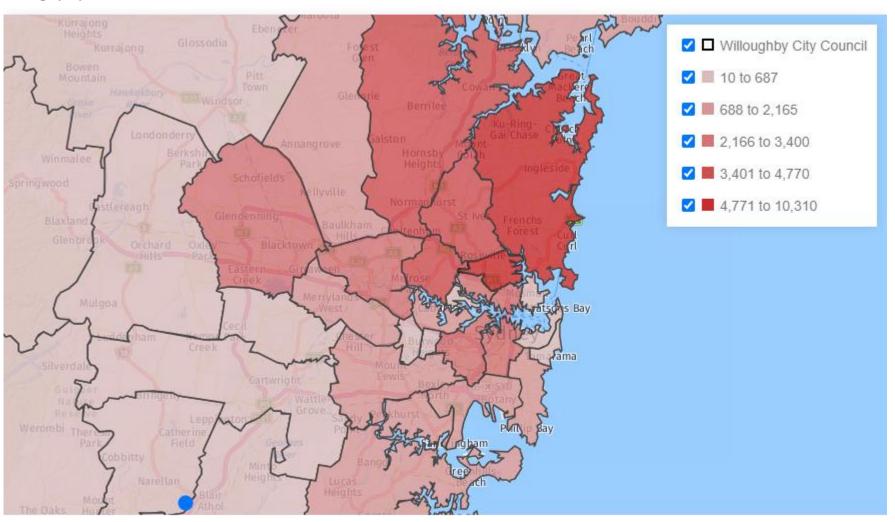
Source: Australian Business Register. @2020 Compiled and presented in economy.id by .id (informed decisions).



Worker origins

Residential locations of workers by LGA, 2021

Willoughby City Council



The Census recorded almost 63,000 workers with jobs in Willoughby. This is an undercount, compared to the modelled estimates.

Only 16.4% live in Willoughby.

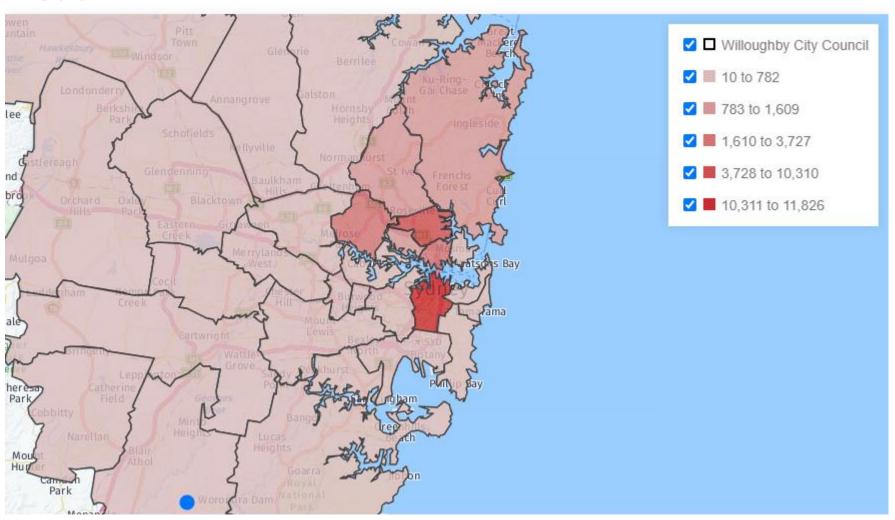
Many did not go to their workplace on Census day 2021



Resident destinations

Employment locations of residents by LGA, 2021

Willoughby City Council



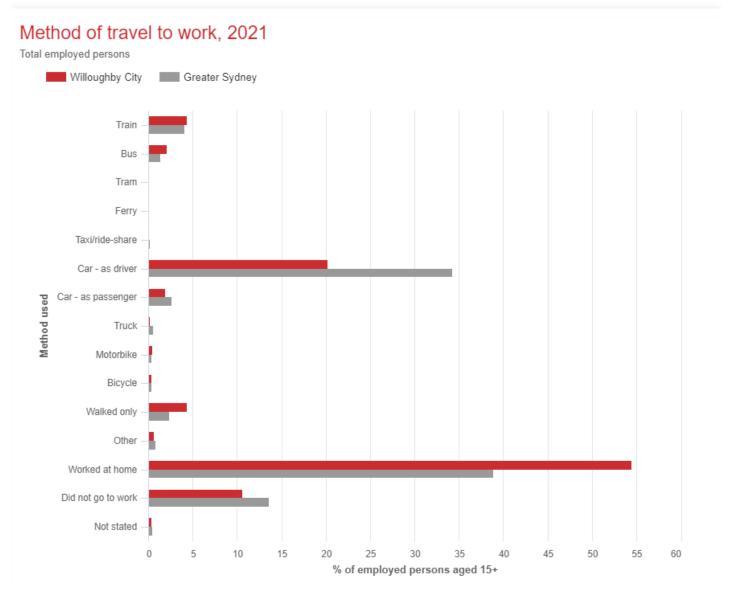
There were fewer employed residents, Census recorded just over 37,000 of those. Of those 28% had a job in the Willoughby LGA.

32% worked in the City of Sydney and another 10% in North Sydney.





Willoughby work from home



With Census conducted in Sydney's lockdown, Willoughby had one of the highest WFH rates in the nation. 54.5% of resident workers worked at home on Census day.

Among the jobs located in Willoughby this was also high, though a bit lower at 42.3%.

With a large number of residents in white-collar jobs, it's likely to still be high, but won't be as high as in lockdown.

