



***A snapshot of the Bourke local
government area.***

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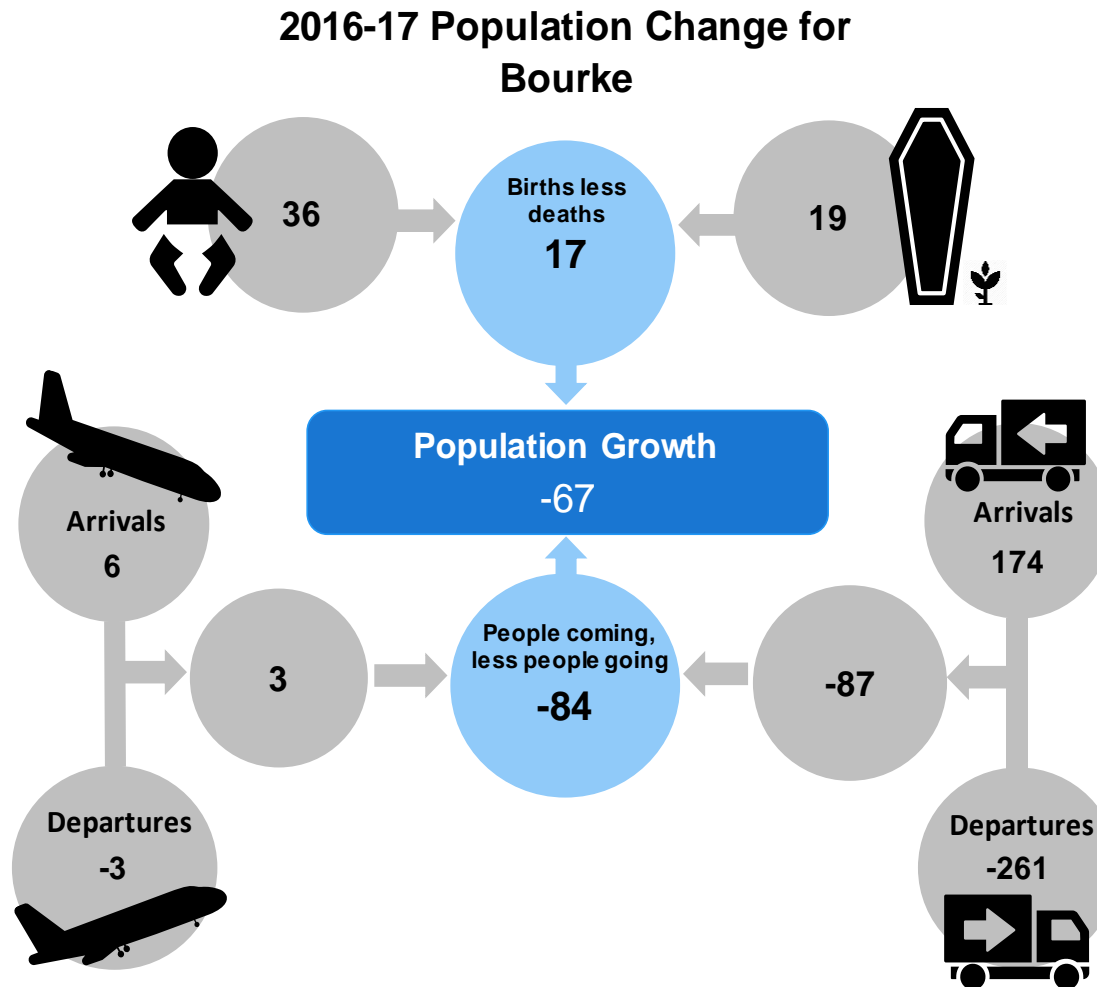
Who are we, and why are we here?

- DPE's NSW population, household and implied dwelling projections are the agreed common planning assumptions for all NSW government policy
- Our team is responsible for producing the projections for the 2018 cycle
- Ensuring that the best local intelligence is used in their production
- Helping the community to understand how they are produced, and what assumptions underpin them
- To help build understanding, and to get the best local knowledge, we want to talk about what the past tells us and assess if this makes sense, and if there are gaps we need to fill
- After your feedback, we will be back later in the year to talk about possible futures

People come and people go: How population changes over time

- Population change is made up of three things:
 - Babies being born
 - People dying
 - People moving in and out of an area
- Babies depend on
 - The number of potential mothers
 - The number of babies each woman has
- The number of people dying depends on
 - The number of people in each age group
 - The likelihood of a person of a given age living or dying throughout the year
- Population on the move – sometimes the biggest change of all – is driven by a range of factors:
- Housing, employment, transport, resource booms and drought cycles, education, family, access to services, lifestyle

What drives population change?



Source: ABS Regional Population Growth 2016-17 (ABS cat. no. 3218.0)

Population change is made up of three things:

1. Babies being born
2. People dying
3. People moving in and out of an area (both locally and from overseas)

Births less deaths gives us the net impact of natural change.

People coming less people going gives us the net impact of migration.



The Australian Bureau of Statistics measures population (and population change) in two ways...

The **Census** of Population and Housing counts people:

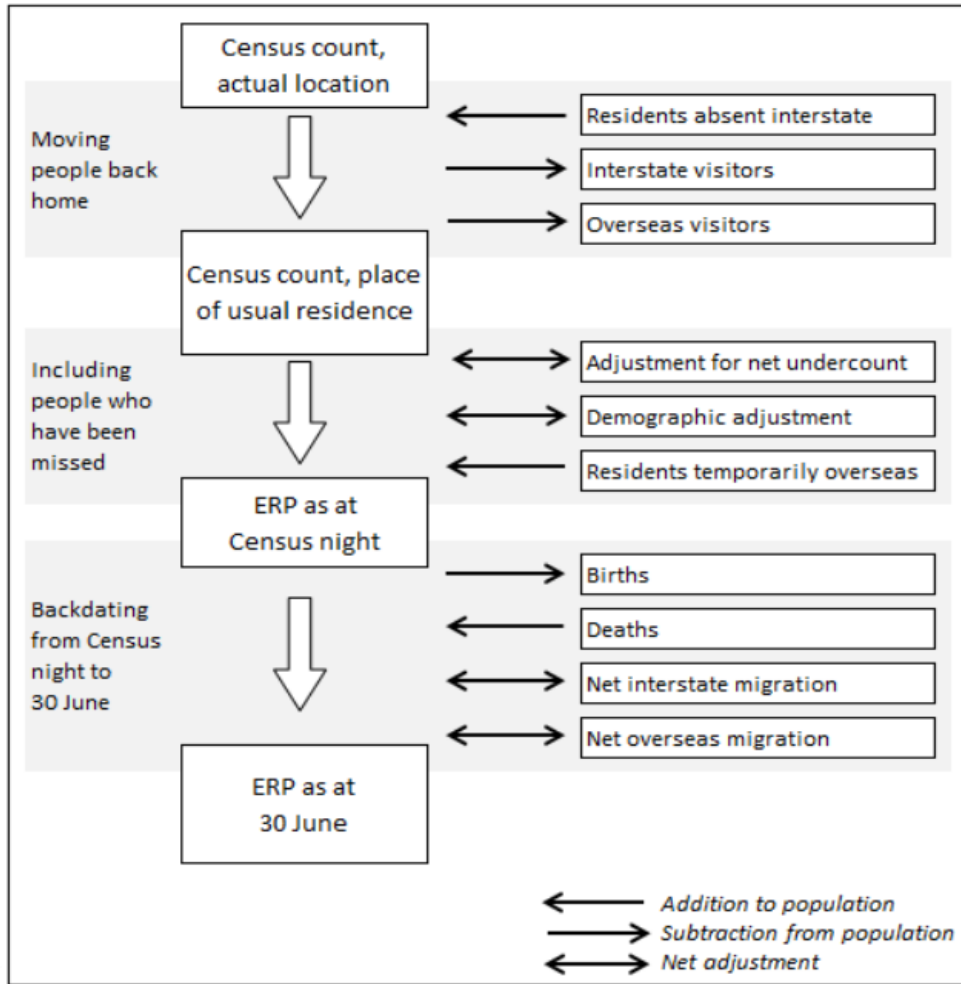
- At their usual residence
 - ... if they were in Australia on Census night (9 August 2016)
 - ... and filled out the form

The **Estimated Resident Population (ERP)** estimates measures the population as at 30 June

- Used to determine the number of representatives from each state and territory to sit in the House of Representatives
 - Used in the allocation of Commonwealth funds for state and local governments
- These concepts are related, but not the same...



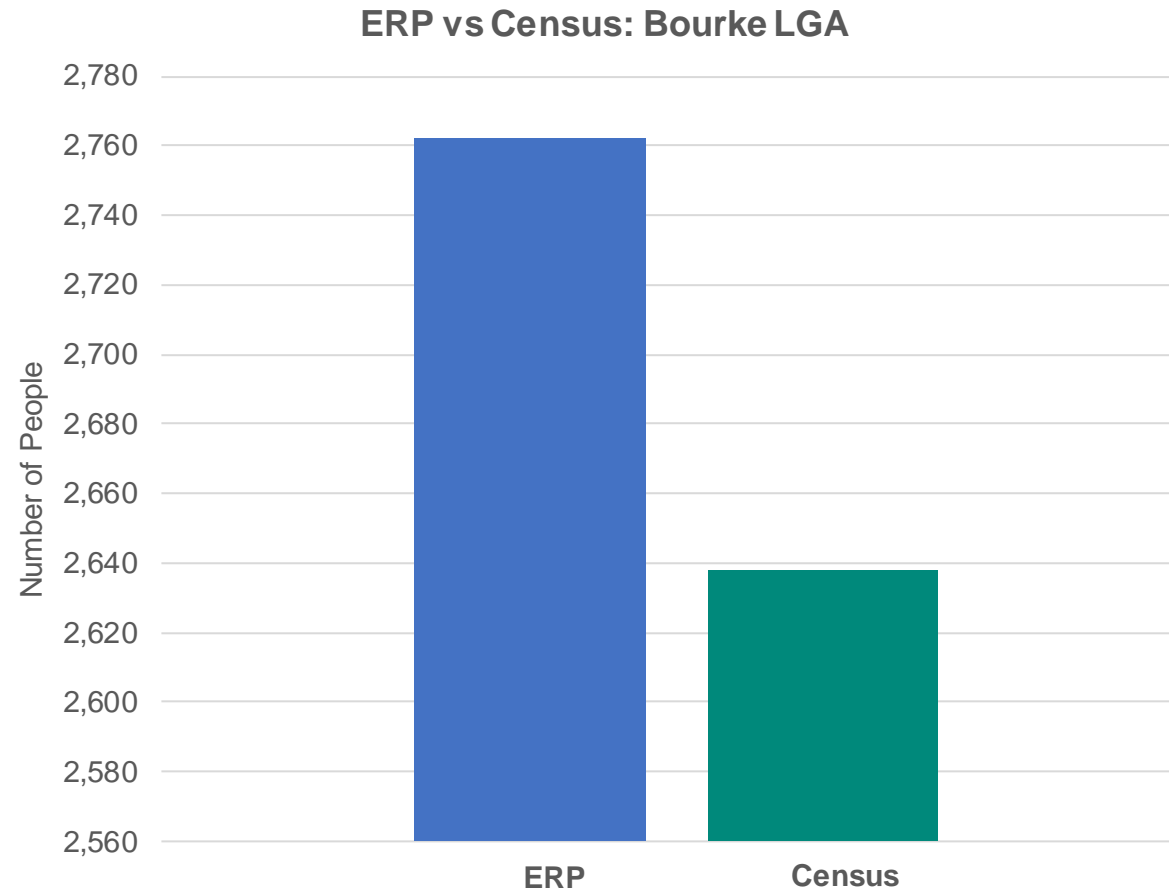
Getting from Census to ERP takes a while...



	NSW '000
Persons	
Components as at 9 August 2016:	
Census count, actual location	7 565.0
plus - Residents absent interstate	84.6
less - Interstate visitors	73.4
less - Overseas visitors	95.9
equals - Census count, place of usual residence	7 480.2
plus - Allowance for under-enumeration(b)	59.2
plus - Demographic adjustment	-3.0
plus - Residents temporarily overseas	212.9
equals - ERP as at 9 August 2016	7 749.3
Backdating components to 30 June 2016	
less - Births	10.7
plus - Deaths	6.4
less - Net interstate migration	-1.0
less - Net overseas migration	13.1
equals - final ERP 30 June 2016	7 732.9

Final rebased 2016 ERP released by ABS 21 June 2018 (ABS cat. No. 3101.0)

A quick look at different population measures

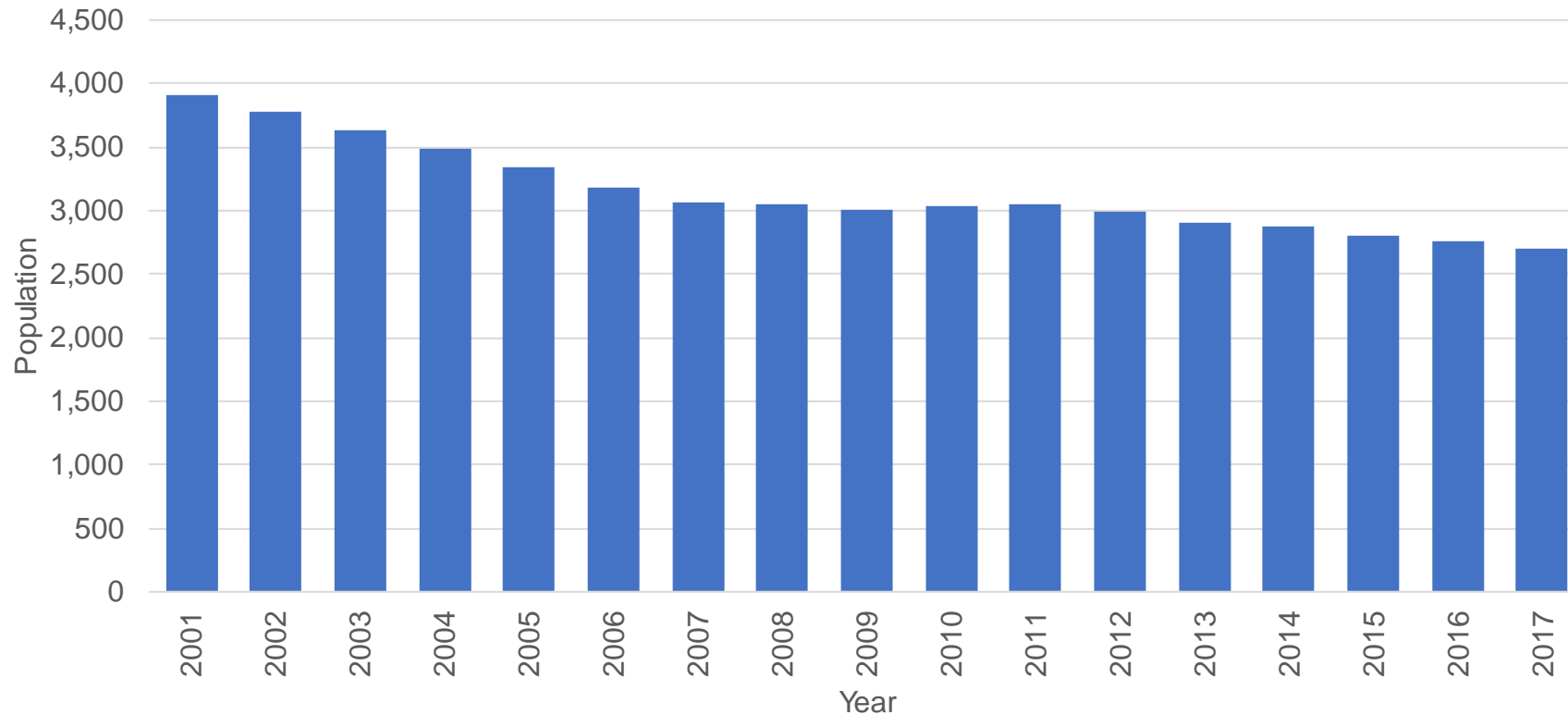


The Estimated Resident Population is always higher than the Census count:

It includes people who were living else where in Australia or overseas (but a usual resident of Australia) on Census night

How the region is changing over time

ERP for the Bourke LGA - 2001 to 2017



The Estimated Resident Population shows long term (15 year+) trends for both current LGAs and also SA2s.

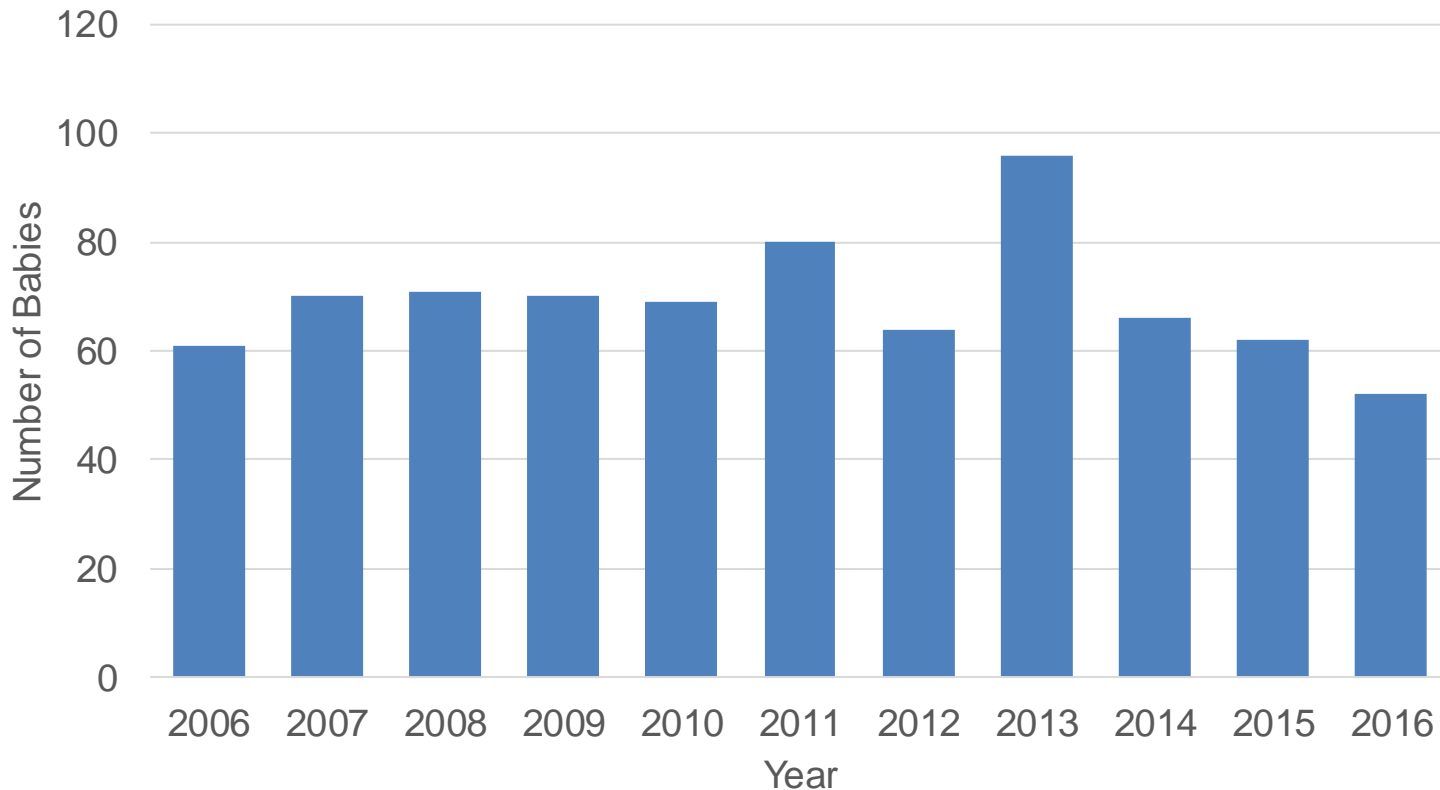
It is a freely available product from the ABS.

Historical population trends are one of the aspects considered for projections.

Source: ABS.Stat, 2018. Customised Table

Babies being born

Number of babies born to mothers in Bourke (ABS Data)



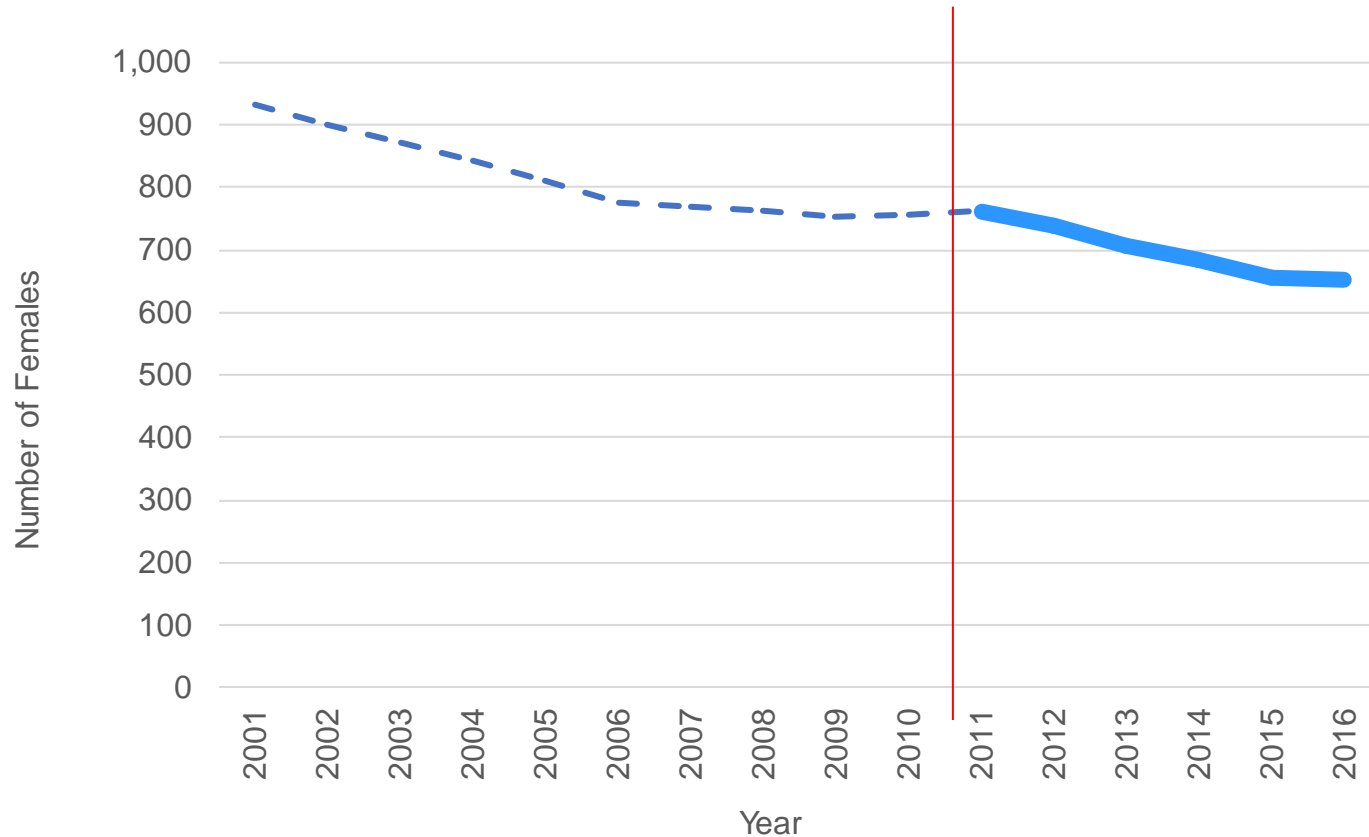
Monitoring the number of births happening can provide good information about future demand for schools and other children facing services.

*However, we **don't** use a historical trajectory of births to project into the future.*



And speaking of babies, what about mothers?

Number of Females Aged 15 to 49 years in Bourke

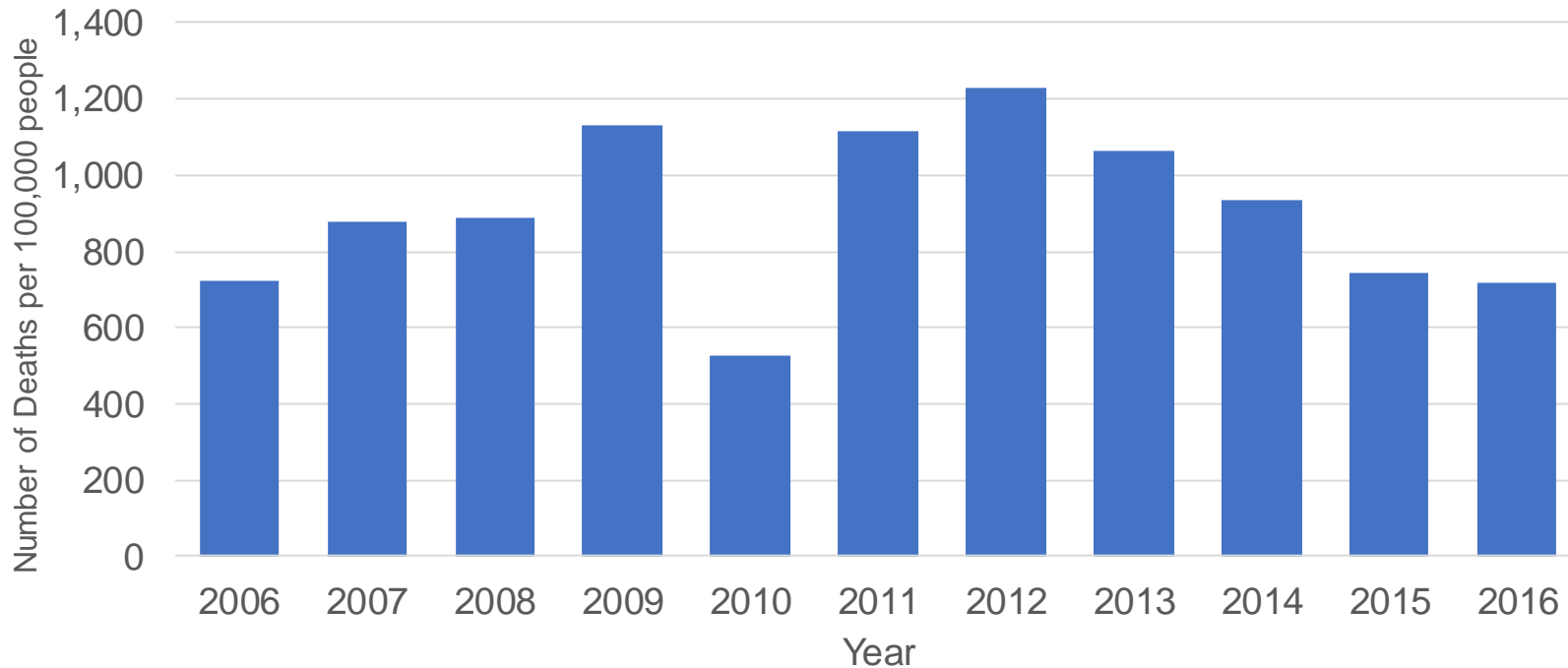


The thicker line highlights the same 5 year window on the previous slide about births.

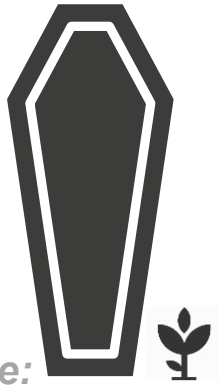
The number of future babies in an area strongly depends on the trajectory of potential mothers. If this population is growing an area will see a growth in the number of babies. If this population is in decline, then fewer babies will be expected in the future.

People dying

Average Crude Death Rate for Bourke



The crude death rate is strongly shaped by an area's population profile:



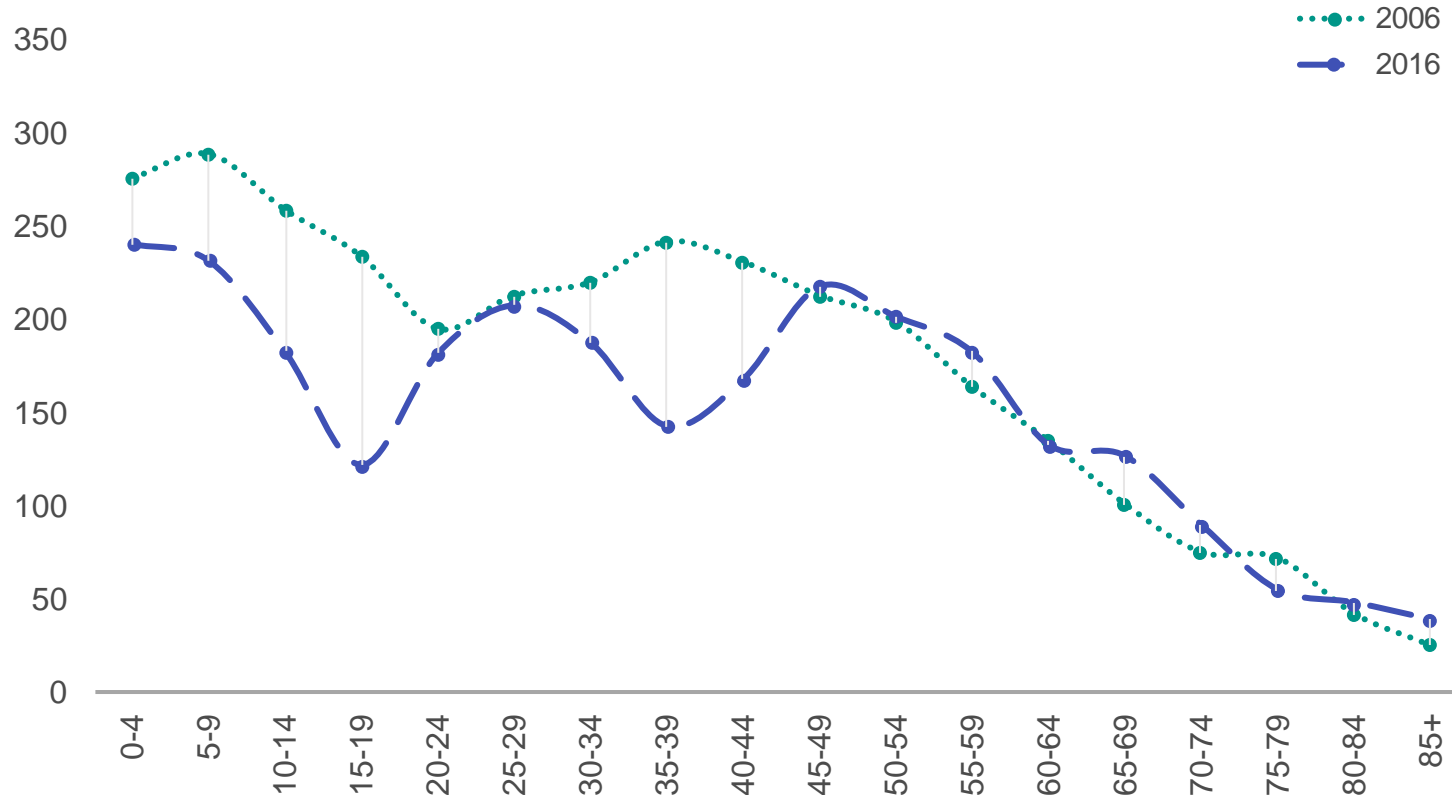
It decreases when more younger people are in an area.

It increases when there are more older people in an area.

Increasing longevity amongst older age groups can also reduce the crude death rate.

How the mix of ages is changing

ERP Age Profile for Bourke (A)

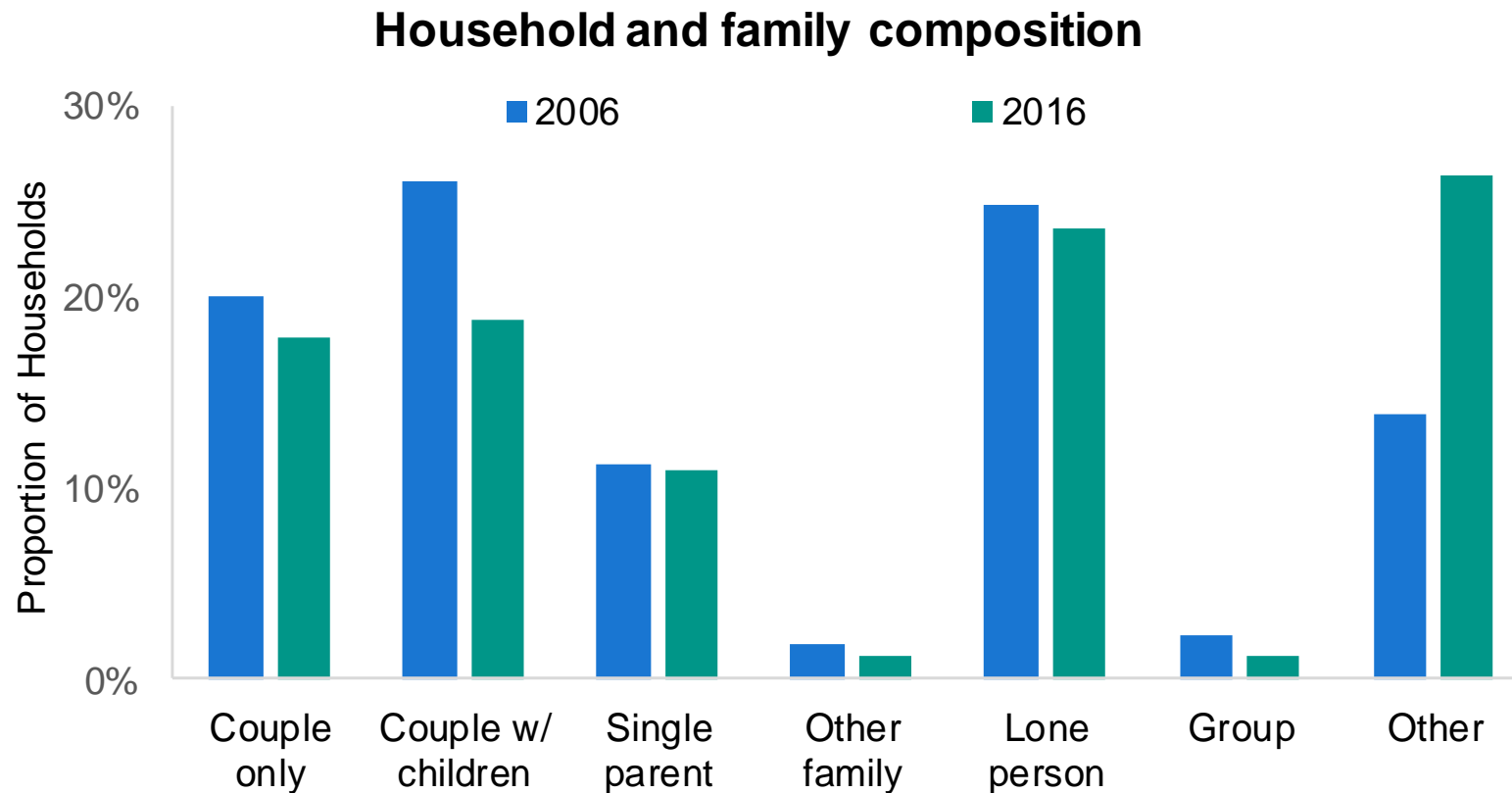


The overall age profile of an area can change substantially, even in less than a decade.

In this graph, if the 2006 line is above the 2016 then the absolute numbers of people in those age brackets has decreased – and vice versa.

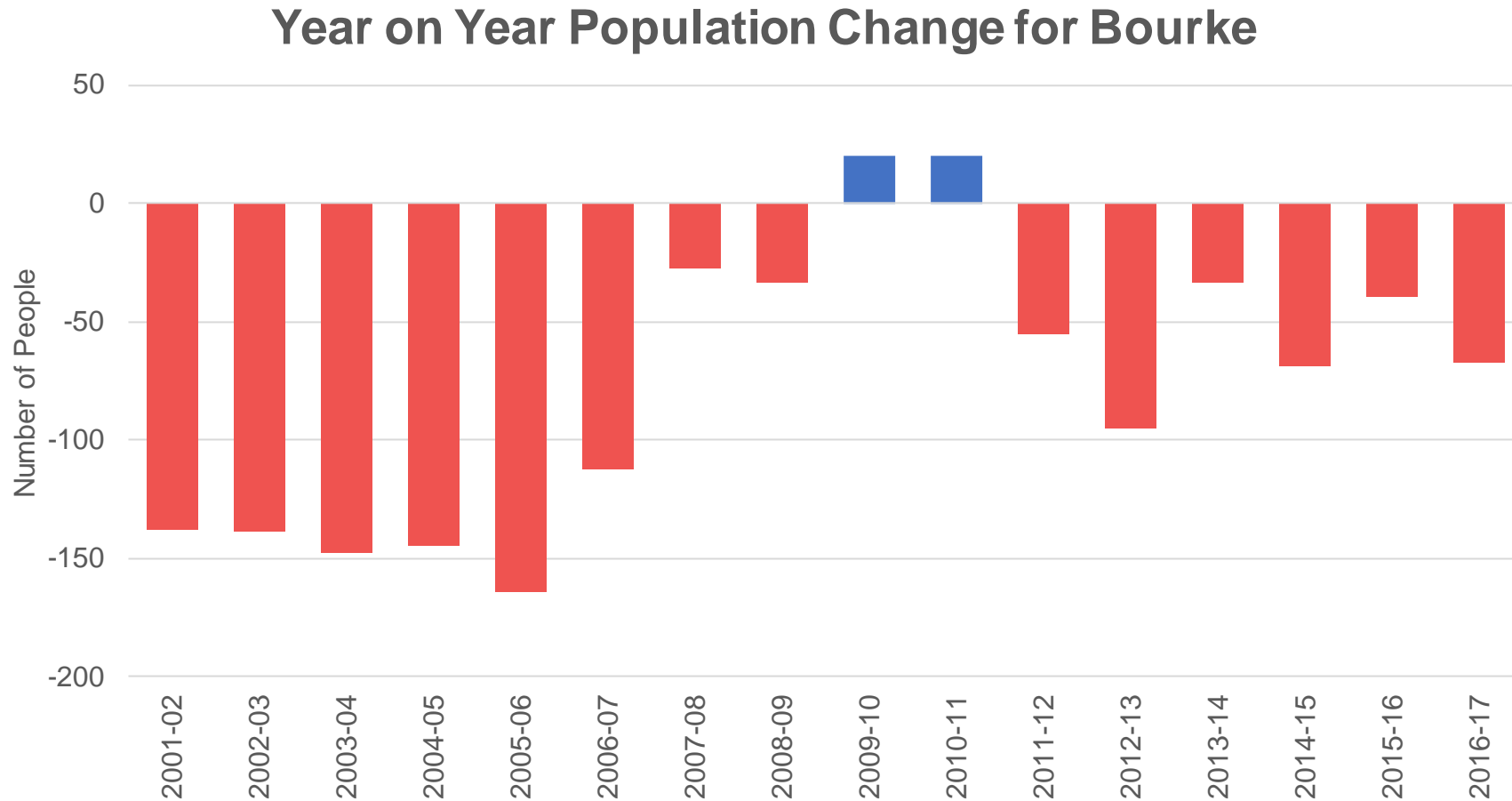
Patterns of ageing in place can be seen if similar peaks are present in 2006 and further to the right in 2016.

How people live: Households and living arrangements



Source: ABS 2016 Census TableBuilder Pro – customised table

The changes differ from year to year



However, population change year-on-year goes through cycles – it is never a straight line or constant.

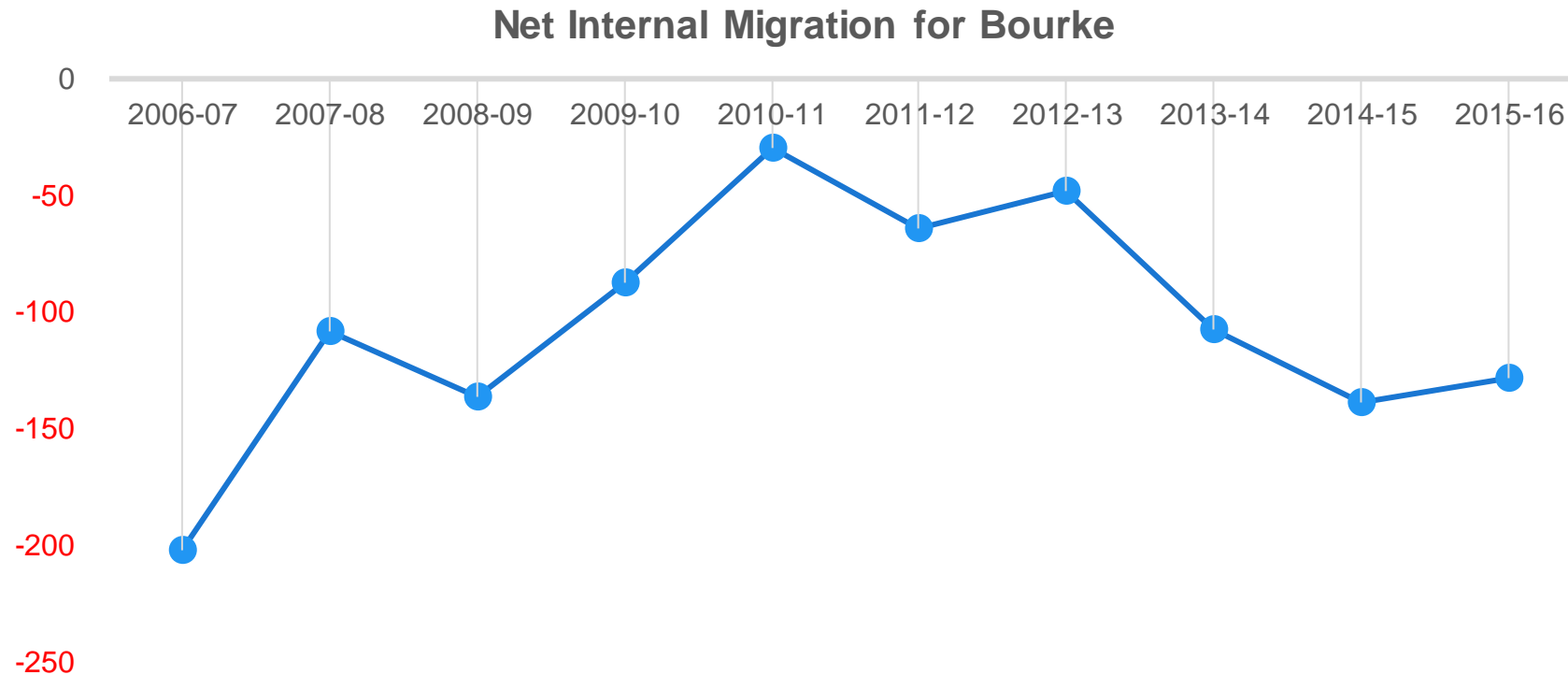
Year-on-year fluctuations can highlight different events or broader longer term trends. Up swings in growth maybe due to new developments coming on line. Down swings due to closures.



On the move: Regional Internal Migration Estimates

- Internal migration – moves to and from Councils and Shires across Australia – shape population change
- In the past we've used Census data to look at internal migration
 - Gives as a detailed picture for a 5 year period;
 - Misses out on changes between Census.
- Regional Internal Migration Estimates (RIME) is based on a range of sources - including Medicare address changes. It is used to look at changes in the overall numbers and fluctuations in the years between Census.

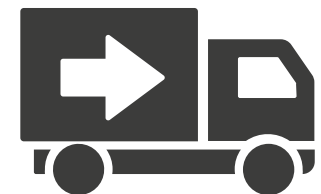
People on the move – the difference between arrivals and departures



Net Internal Migration captures an areas' relationship with the rest of NSW (and Australia).

Some areas are a constant exporter of people (negative numbers in the graph) to the rest of the country and some are a constant importer (positive).

Others have flipped between losing and gaining population over the last 10 years.



Where are people moving from?

- Of the people that moved into a new address in Bourke between 2011 & 2016, 45% had moved from somewhere else in Bourke.
- Those who came from outside the region came from:

Origin LGA of Residents arriving in Bourke		
Ranking	Origin LGA (2011)	Number of People
1	State Undefined (NSW)	39
2	Central Coast (NSW)	21
3	Dubbo Regional	16
4	Wollongong	13
5	Bogan	12
6	Mid-Western Regional	10
7	Brewarrina	8
8	Coffs Harbour	8
9	Penrith	7
10	Gilgandra	7

Greater Capital City Origins		
Ranking	City of residence in 2011	Number of People
1	Greater Sydney	73
2	Greater Brisbane	6
3	Greater Melbourne	3
4	Greater Hobart	0
5	Greater Perth	0
6	Greater Canberra	0
7	Greater Adelaide	0
8	Greater Darwin	0

Where are people moving to?

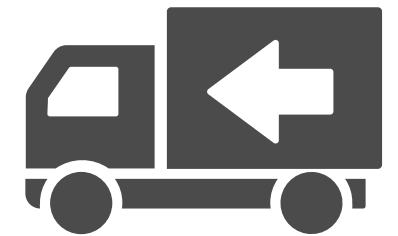
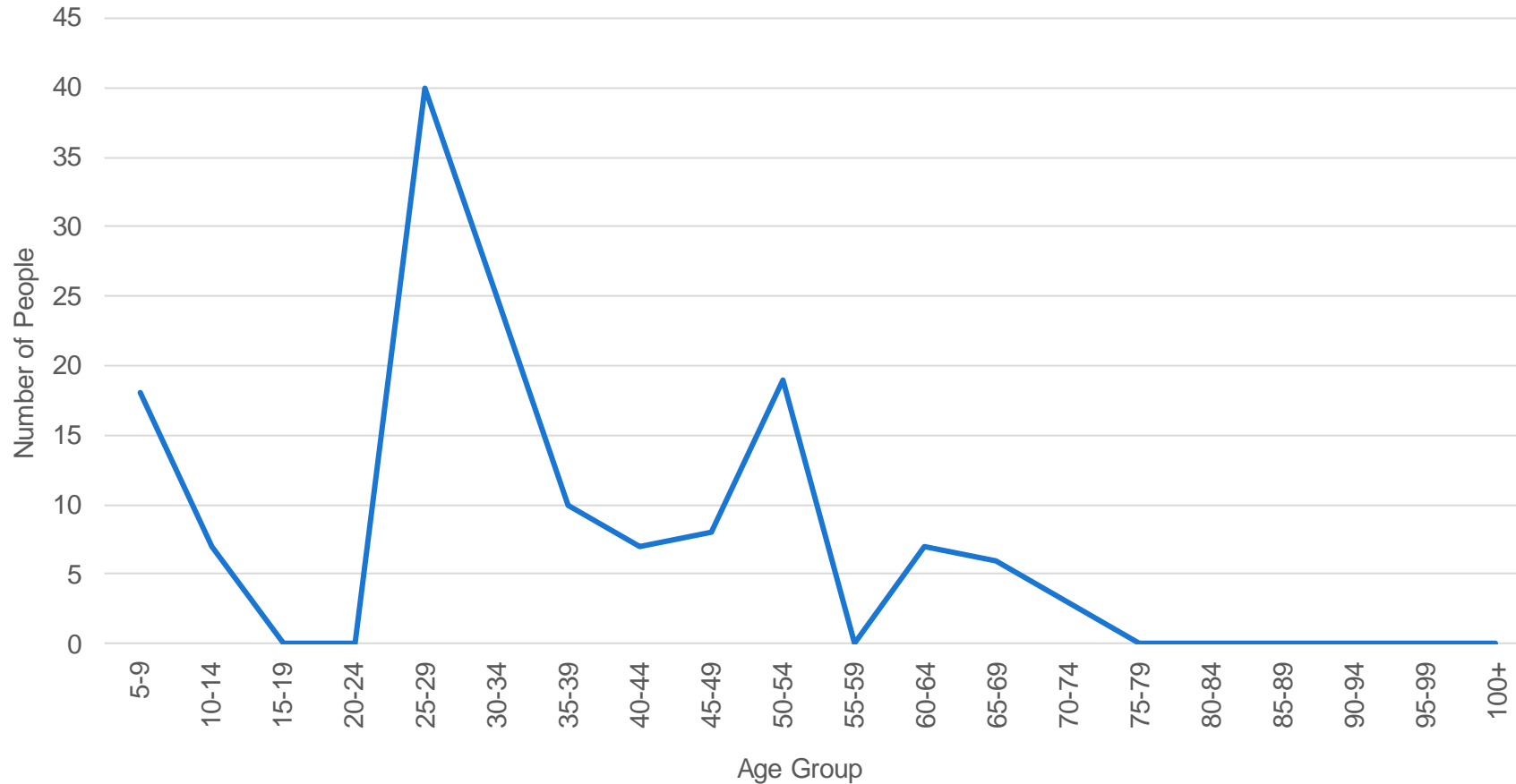
- Of the people who left an Bourke address between 2011 & 2016, 32% moved to somewhere else in Bourke.
- Those who left the Region, went to:

Destination of Residents departing from Bourke		
Ranking	Destination LGA (2016)	Number of people
1	Dubbo Regional	94
2	Orange	23
3	Bathurst Regional	21
4	Port Macquarie-Hastings	18
5	Ballina	17
6	Narromine	17
7	Clarence Valley	16
8	Lake Macquarie	14
9	Mid-Coast	11
10	Tweed	11

Greater Capital City Destinations		
Ranking	City of residence in 2016	Number of People
1	Greater Sydney	58
2	Greater Melbourne	7
3	Greater Canberra	5
4	Greater Brisbane	3
5	Greater Hobart	0
6	Greater Perth	0
7	Greater Adelaide	0
8	Greater Darwin	0

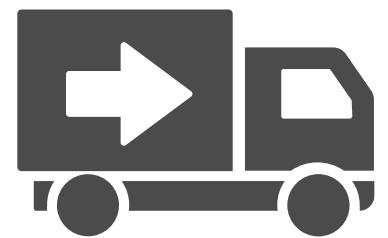
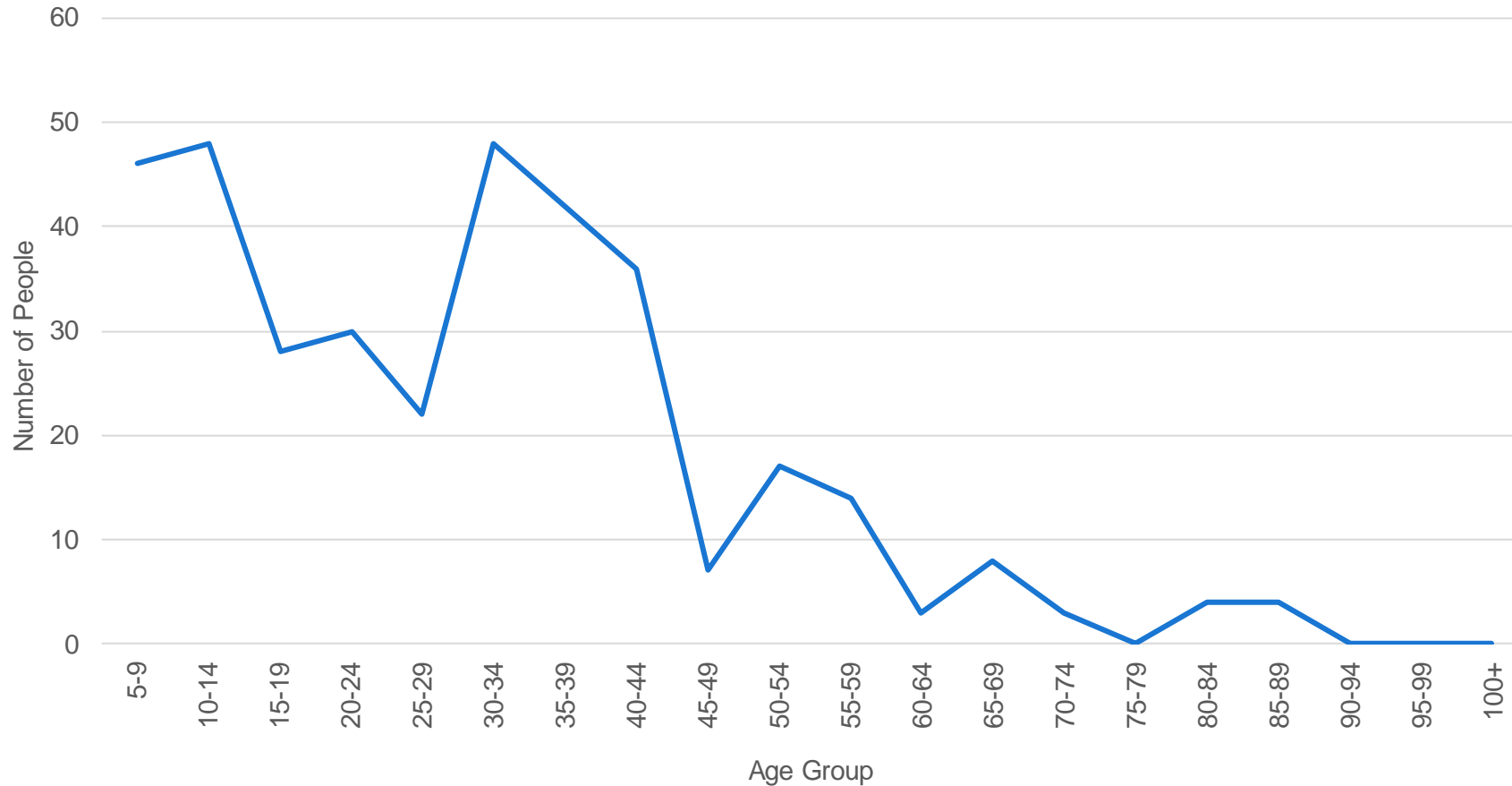
How old were the people that moved here?

Age Profile of People Moving into Bourke



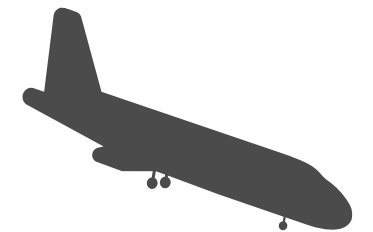
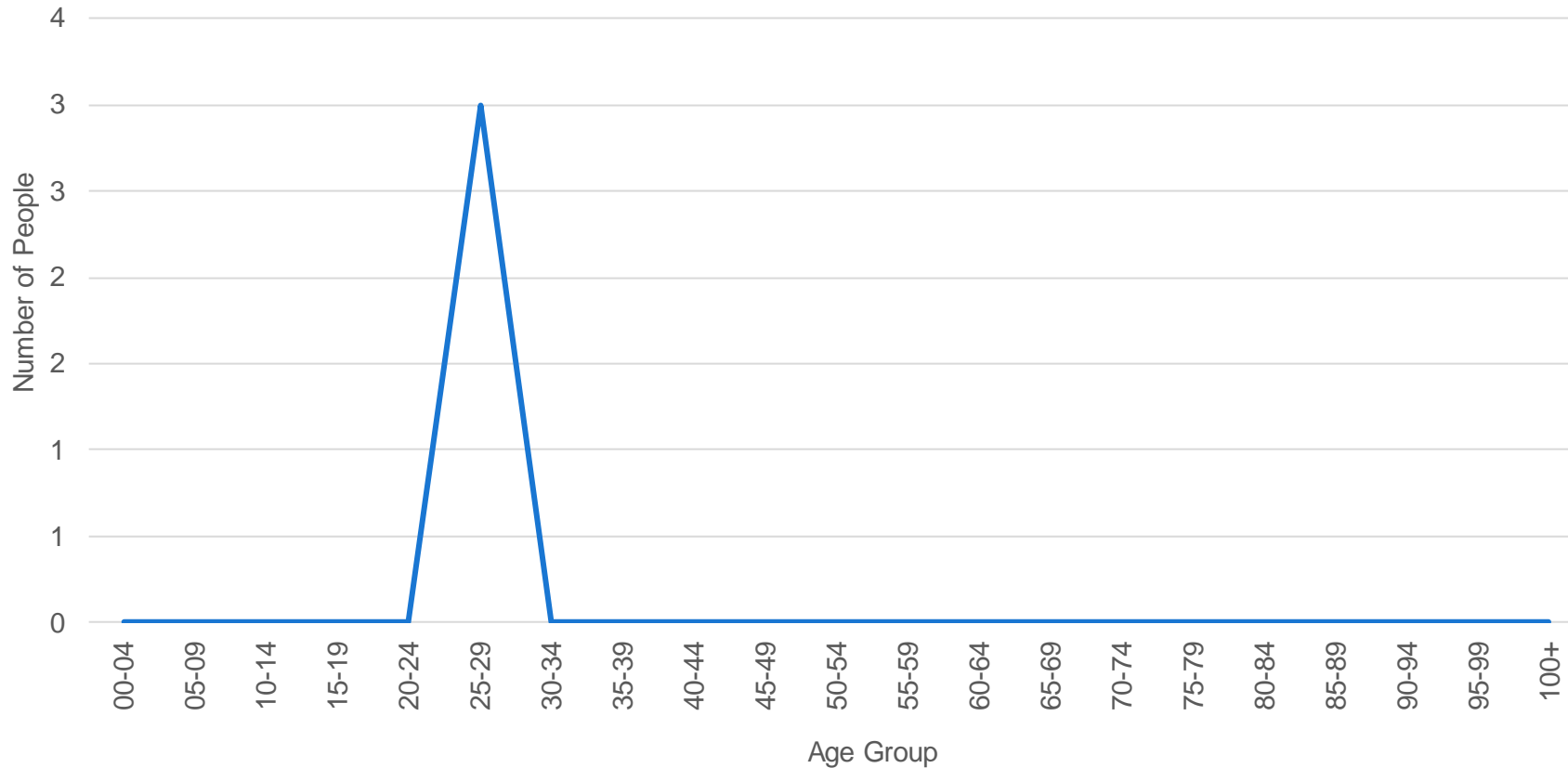
How old were the people that moved away?

Age Profile of People Leaving Bourke



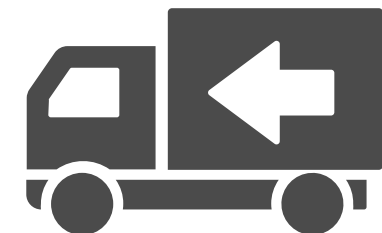
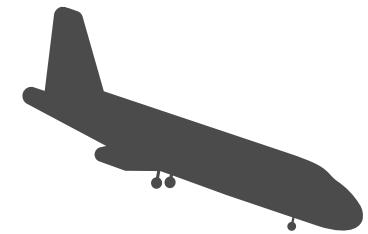
How old were recent arrivals from overseas?

Number of overseas arrivals by age to Bourke between 2012 and 2016



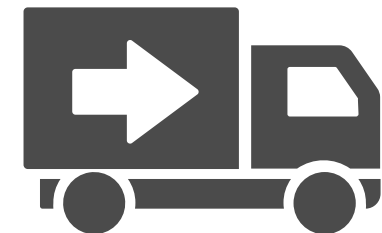
Student Arrivals

Origin of students living in Bourke	
LGA of Residence 5 years ago	Students Moving In
Overseas	9
Penrith	6
Dubbo Regional	6
Cobar	5
Wollongong	5
The Hills Shire	5
Queanbeyan-Palerang Regional	4
Sutherland Shire	4
Brewarrina	3
Central Coast (NSW)	3



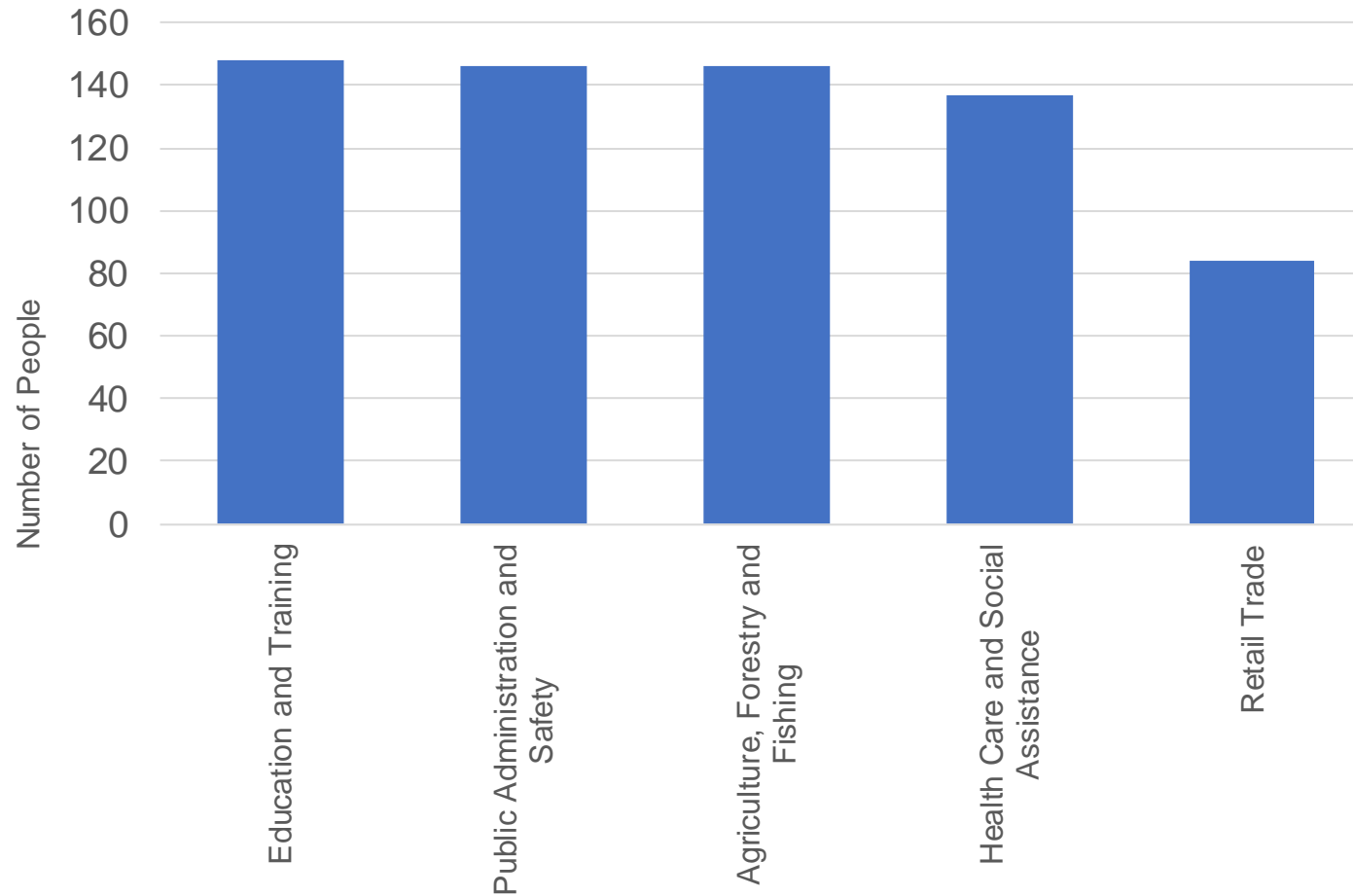
Student Departures

Destination of Students leaving Bourke	
LGA of Current Residence (2016)	Students Moved Out
Dubbo Regional	18
Bathurst Regional	16
Orange	9
Hornsby	8
Narromine	7
Tweed	7
Sydney	6
Randwick	6
Lake Macquarie	6
Coonamble	5

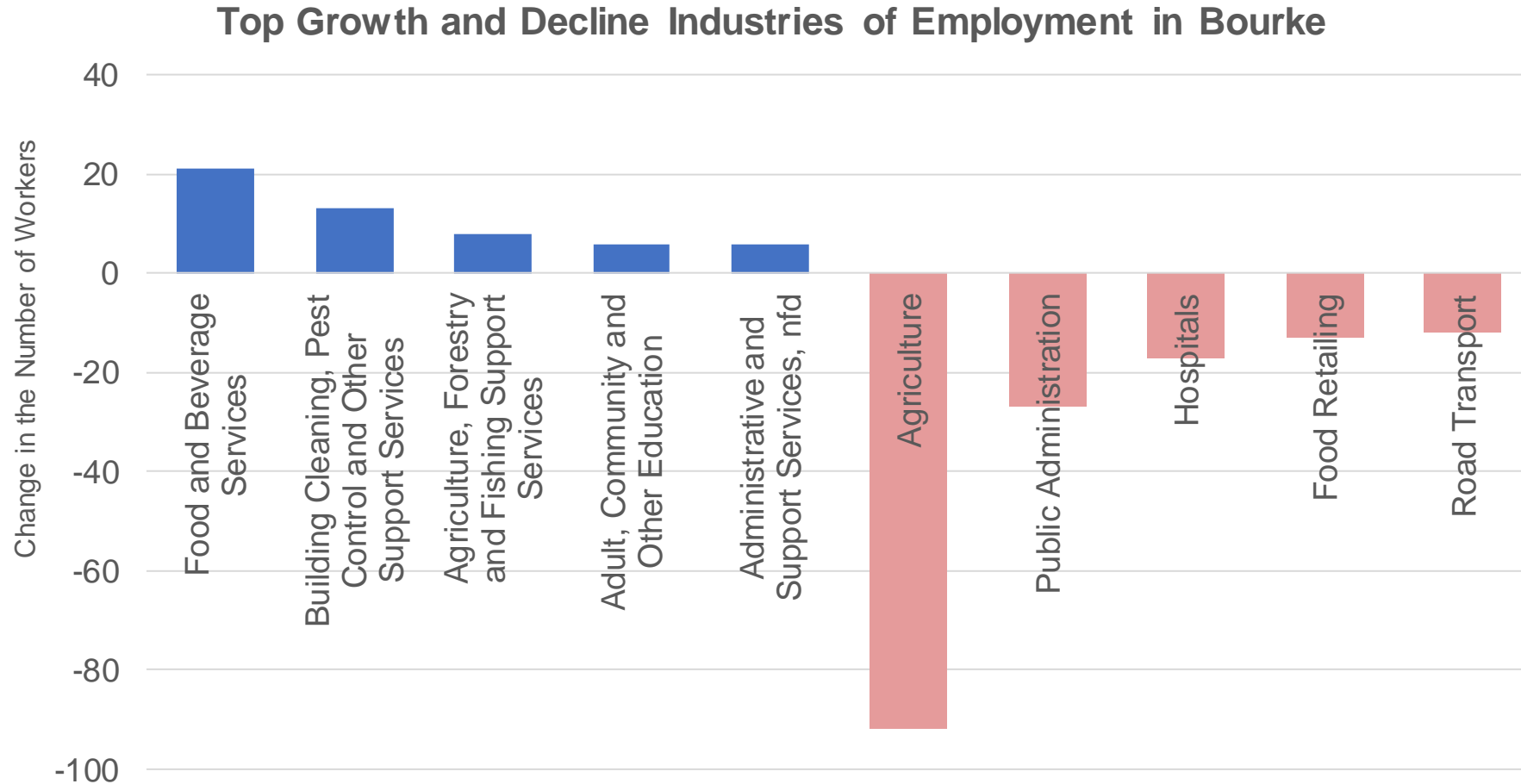


How people work: Top 5 industries of employment in 2016

Top 5 Industries of Employment in Bourke



How people work: Change in Industry 2011 to 2016



The way forward

- The Department has been producing population projections in some form for many years.
- It has been reassuring to see more agencies use these data with more decisions being made on their basis.
- But with their greater use, it is becoming clear that there is a need for improvement.
- We're keen to incorporate local knowledge that might impact on future population growth. This will help us build a more robust and complete profile of your local area.
- Work on the NSW Population Futures is ongoing and we look forward to your continued support to help us develop high quality population projections across NSW and its regions.



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Planning &
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