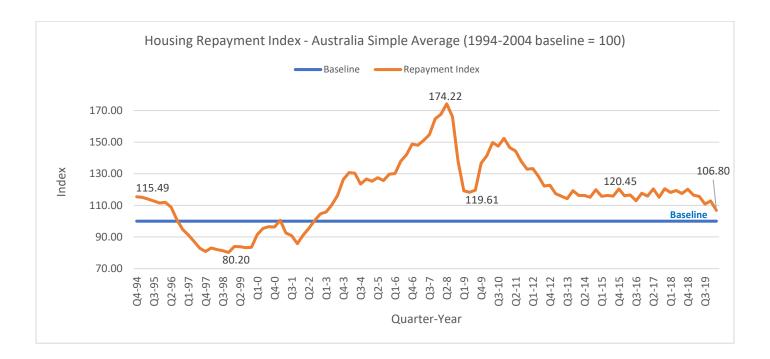


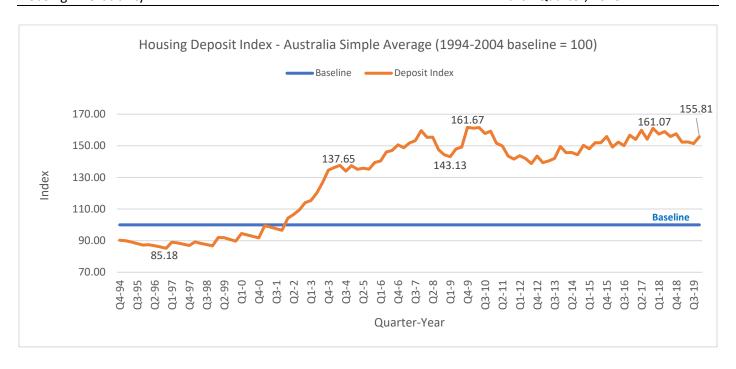
Housing Affordability Index

March Quarter, 2020
A Quarterly Review of Housing Affordability

Highlights

- Repayment costs have decreased over the 1st quarter of 2020, with the repayment index decreasing from 112.8 to 106.8. The cost of average Australian repayments is now lower than 2003 Q3 levels.
- > Deposits costs have also decreased over the 1st quarter. The deposit index decreased from 155.81 to 151.2 over 2020 Q1.
- The decrease in deposit costs is attributable to a decrease in median house prices of \$19,250 across Australia.
- Together with declining house prices, the decrease in variable owner-occupier interest rates from 4.15% to 3.91% has further decrease repayment costs
- The gap between repayment and deposit costs has shrunk, improving access to the housing market for both first home buyers and potential investors
- All capital cities became more affordable, except Hobart, which is the least affordable city in the country with an index figure for repayments of 145.9 and for deposit of 207.9. It saw a decrease in affordability of 7.4 points for repayments and 15.4 points for deposit.
- > Most affordable is Darwin which has a repayments index of 77.8 and deposit index of 113.3.





Summary

The 2020 Quarter 1 Australian housing market saw an increase in the affordability of both housing deposits and repayments – with the housing repayment-deposit gap shrinking. In all capital cities, save for Hobart, deposit costs significantly decreased due to a decline in median house prices, which combined with falling interest rates led to an even greater decrease in repayments. Over 2020 Q1, average house prices fell from \$618,750 to \$599,500 while variable home loan rates fell from 4.15% to 3.91%.

The total number of weeks to raise a deposit, given a 10% savings rate, dropped by an average of 22 weeks across Australia and, most notably, 68 weeks in Sydney. Similarly, the proportion of yearly income used to cover repayments has fallen by 2% across Australia and 4.7% in Sydney, which represents yearly savings of \$1,758 and \$4,241 respectively.

We measure our repayment affordability index using median house prices and calculating the ratio of repayments to average weekly earnings and expressing it as a percentage of the average for the first 10 years of the time series. We measure our deposit affordability index by calculating the ratio of an average 20% deposit to average weekly earnings and expressing it as a percentage of the average figure for the first 10 years of the time series.

	Deposit Inde	x Rep	ayment Index
Sydney	145.7 (-9.7)	103.	.6 (-9.7)
Melbourne	173.7 (-8.4)	123.	.5 (-9.2)
Brisbane	134.6 (-4.0)	94.6	(-5.3)
Adelaide	154.8 (-6.1)	109	.5 (-7.2)
Hobart	207.9 (+15.	4) 145.	.9 (+7.4)
Darwin	113.3 (-6.2)	77.8	3 (-6.4)
Canberra	169.0 (-4.1)	119	.6 (-6.0)
Perth	127.3 (-6.1)	89.9	(-6.7)
Average	151.2 (-4.6)	106	.8 (-6.0)

Graham Young

Executive Director

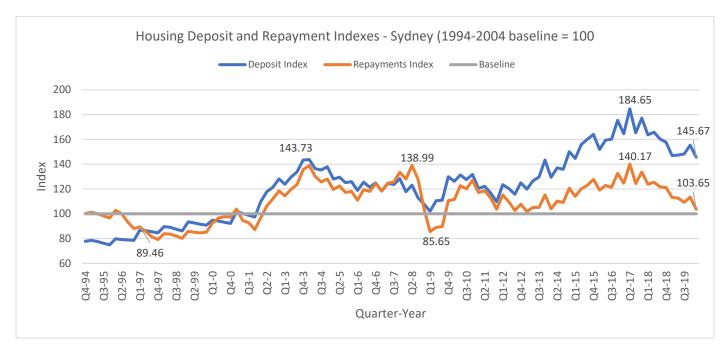
Australian Institute for Progress

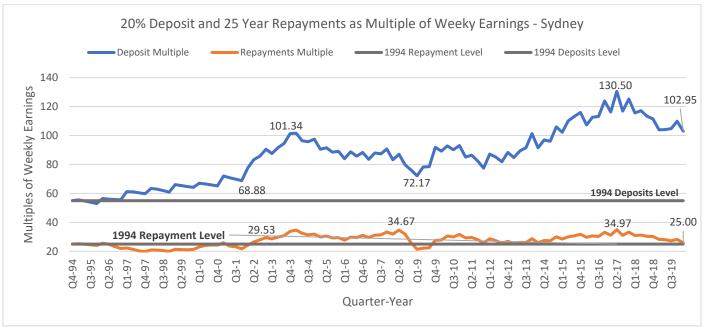
Nicholas Umashev Economic Researcher

Australian Institute for Progress

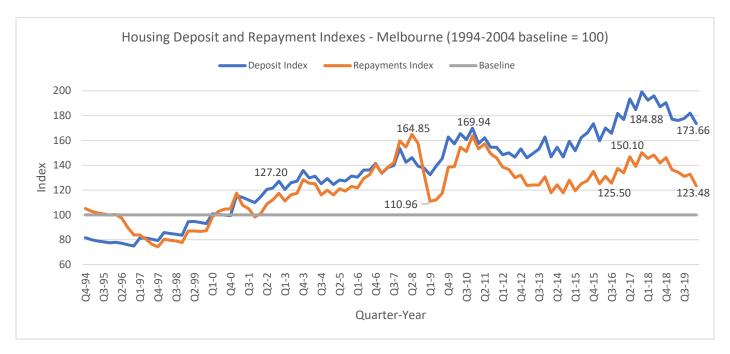
Deposit and Repayment Costs by Capital City

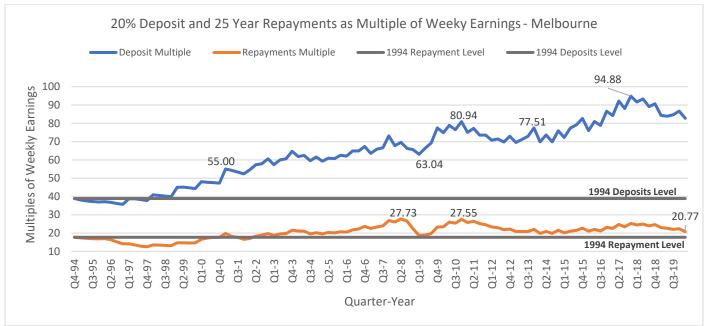
Sydney



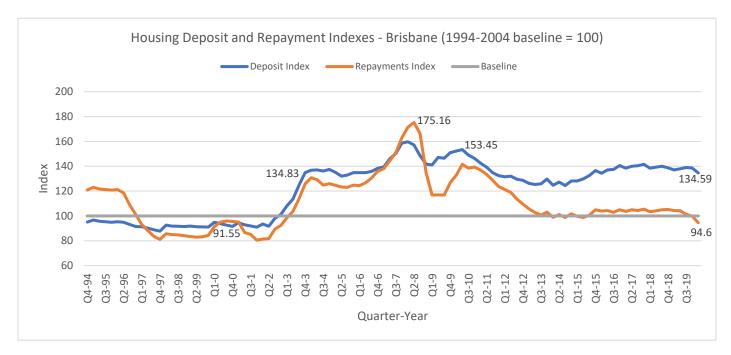


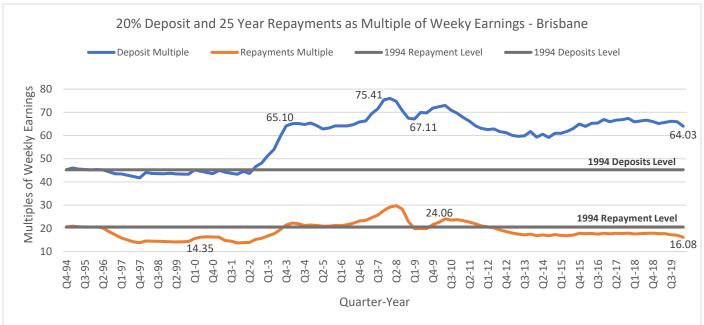
Melbourne



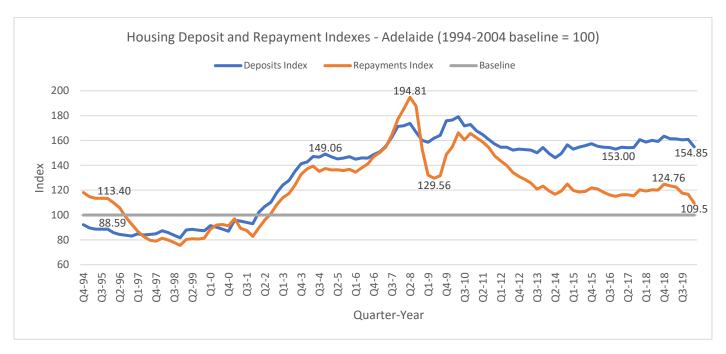


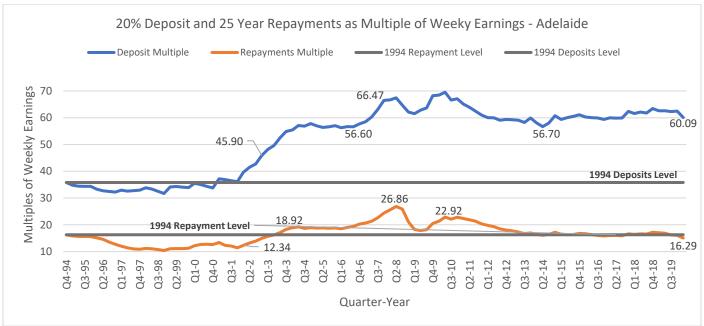
Brisbane



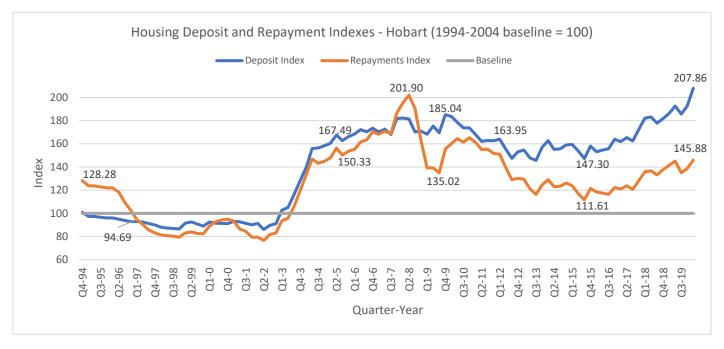


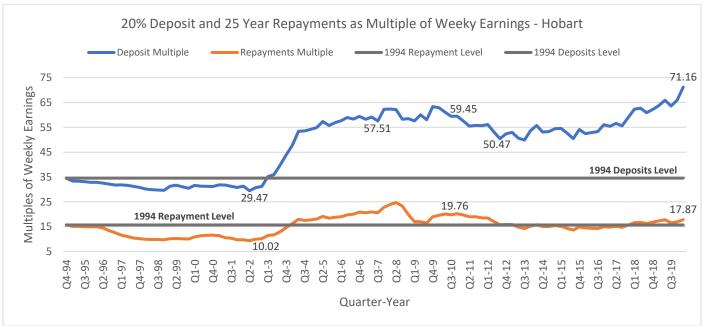
Adelaide



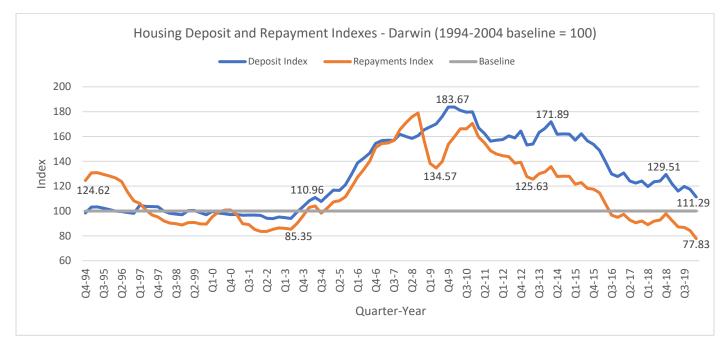


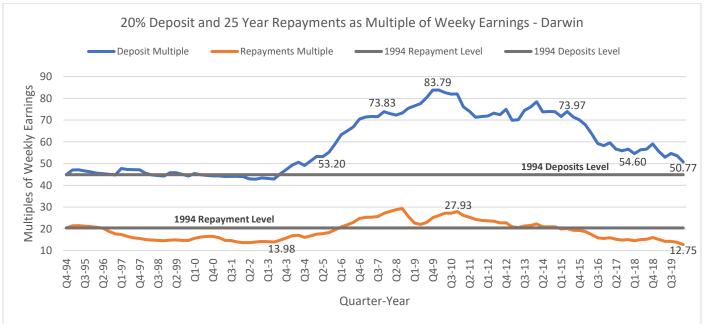
Hobart



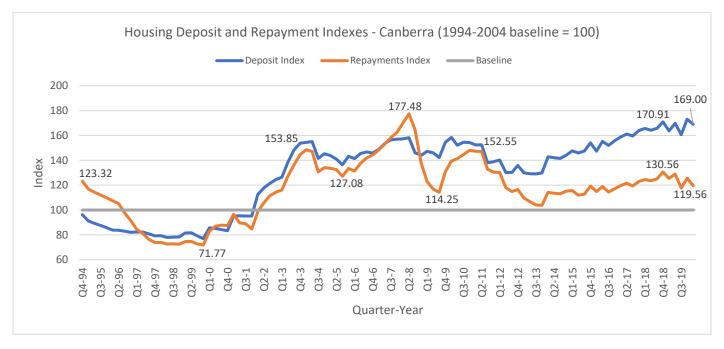


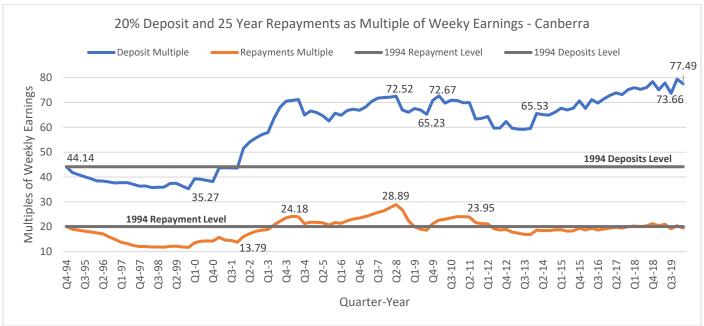
Darwin



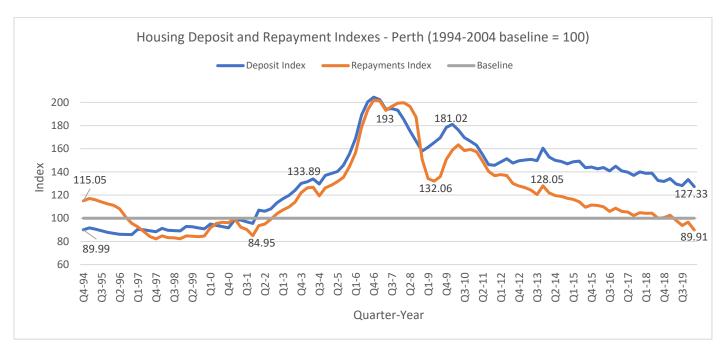


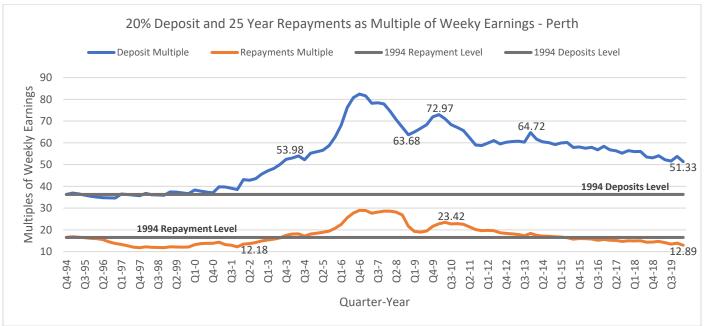
Canberra





Perth





Methodology

Since the majority of Australian's rely on a mixture of debt and equity to purchase real estate, it is necessary to analyse housing affordability based on the cost of deposits and repayments. To reflect the real experience of home buyers, rather than just the increase in capital values, we model the cost of notional deposits and house repayments between Q4:1994 and Q1:2020 across Australia's eight most populous cities.

For the mortgage structure, we assume a 20% home deposit as well as monthly payments and daily compounding over a 25-year mortgage period. We calculate the average owner-occupier home loan rate over a given quarter, providing us with an estimate for the mortgage rate over the following 25-year loan period. In addition to using the median residential price for a given capital city, we also use average weekly earnings reported on the state level.

To calculate the repayment multiplier, we take the total yearly payment for a principal interest loan divided by the average weekly earnings for a given city and quarter. To calculate the deposit multiplier, we instead divide the cost of a deposit by average weekly earnings. Note that due to the limited housing data available, we take the national average to be the simple average of the deposit/repayment weekly multiplier for Australia's 8 most populous cities. Using the deposit/repayment weekly multiplier values, we use a city's average deposit/repayment weekly multiplier over the period Q4:1994 to Q4:2004 as the baseline for that city's index (with the baseline indexed to 100).

The datasets used within this model include: ABS 6302 Average Weekly Earnings, ABS 6412 Residential Property Prices Indexes for post-2002 median capital city house prices, table 1 of Abelson 2003 for pre-2002 median house prices, and RBA F5 Indicator Lending Rates for owner-occupier variable discounted housing loan rates.

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