# Affordability of services over the nbn® network

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How

# affordable

are services over the **nbn** network?



Weekly spend on services over the **nbn** network by the average Australian household 1.1%

Cost of services over the **nbn** network as a proportion of the average Australian household income



Australians spend less on services over the **nbn** network than on electricity, and the same as water

Electricity (1.6% of income)



Water (1.1% of income)

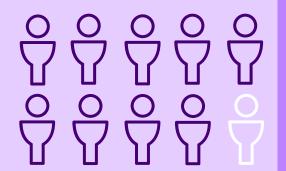


**nbn** (1.1% of income)



9 in 10

**nbn** users surveyed reported no concerns with the affordability of services over the **nbn** network



9 of 10

Small business owners who work from home reported **no concerns** with the affordability of their service over the **nbn**network





6<sup>th</sup>

Most affordable broadband amongst 13 OECD countries

# **Executive Summary**

#### Introduction

The rising cost of living is squeezing household budgets across Australia. While prices of goods and services are rising, wages are not keeping up. As a result, services over the **nbn** network are more important than ever, as households turn to online activities to save money.

In this context, it is important to understand whether services over the **nbn** network continue to be affordable.<sup>1</sup>

This report builds on findings from last year's report Consumer affordability of **nbn** services to answer this question. It draws on insights from a range of data sources, including information on services over the **nbn** network, international broadband prices, Australian household characteristics and the results from a bespoke consumer survey.

## What does affordability really mean?



A product or service is affordable if a given consumer has sufficient money to purchase it.

Affordability is challenging to assess; it varies from one person to the next and views of affordability will vary with time in line with changes in price, an individual's financial situation and society's expectations of reasonable costs. To capture this complexity, this report brings together the results of these different affordability approaches.

#### **Key Results**

This report assesses the affordability of services over the **nbn** network against seven key metrics. Table 1 below summarises these seven assessment approaches and the headline results.

Table 1: Summary of affordability metrics and key results

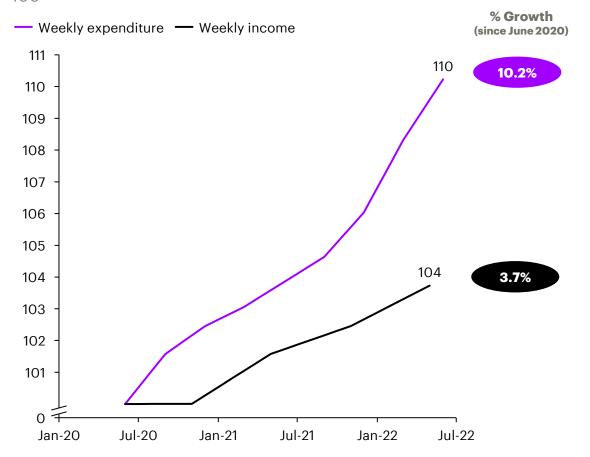
	2022	Change from 2021
$\bigcirc$ What does the average Australian household pay for services over the <b>nbn</b> network?	\$16.90/week	Largely stable (\$16.80/week in 2021)
What is this cost as a proportion of average household income?	1.1%	Unchanged (1.1% in 2021)
What percentage of <b>nbn</b> users are on high speed tiers?	19%	Higher (16% in 2021)
How does spending on services over the <b>nbn</b> network compare to other household essentials, as a proportion of average household income?	Australians spend less on the <b>nbn</b> services than on electricity (1.6%) and around the same on water (1.1%).	Largely stable
Are Australians concerned about the affordability of services over the <b>nbn</b> network relative to other utilities?	9 in 10 are unconcerned	Largely stable (88% in 2021)
Is the price of services over the <b>nbn</b> network reliable, compared to other utilities?	61% experience stable prices (rarely experience bill shock), higher than most utilities	[New metric]
Are work-from-home small business owners concerned about the affordability of services over the <b>nbn</b> network relative to other utilities?	9 in 10 are unconcerned	[New metric]
Is Australian broadband affordable compared to other countries?	6 <sup>th</sup> most-affordable compared to 13 other OECD countries	Unchanged (6 <sup>th</sup> in 2021)



# Facing rising living costs, over half of **nbn** users are turning to online activities as a way to save money

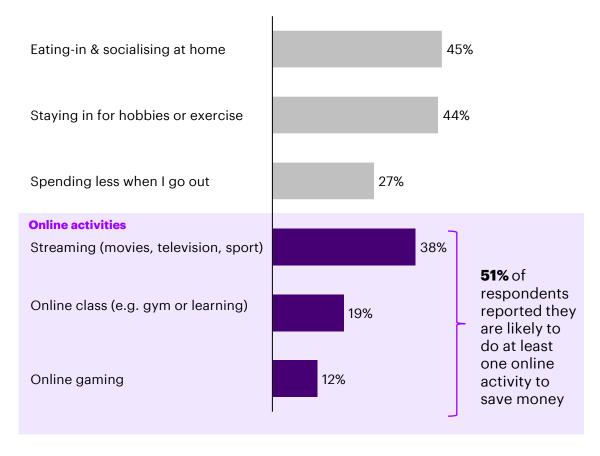
# As household expenses are rising faster than income...

Indexed average household weekly expenditure and income,<sup>1</sup> June 2020 = 100



# ...51% of **nbn** users are turning to online activities to save money

Response to: What actions are you likely to take to maintain your quality of life while saving money? % survey respondents<sup>2</sup>

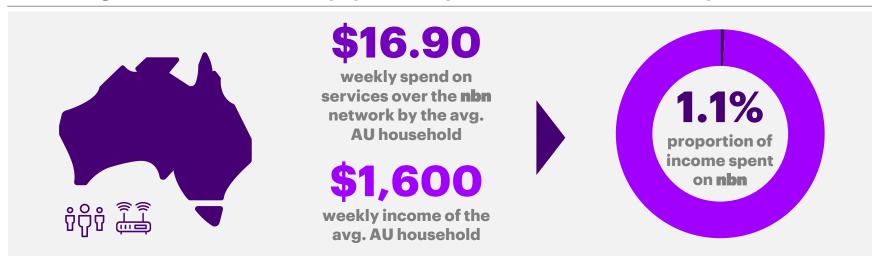


Notes: 1. Household weekly expenditure adjusts latest data (2016-17) by CPI; Household weekly income adjusts latest data (2019-20) by proportional increase in individual weekly income. 2.

Multiple response question so totals do not sum to 100%. Sources: ABS Household Income and Wealth, Average Weekly Earnings, Household Expenditure Survey and CPI; Accenture/nbn consumer survey n=2,001; Accenture analysis.

# Today the average Australian household spends less than \$17 a week on services over the **nbn** network, which represents only 1.1% of income

# The average Australian household pays \$16.90 per week or 1.1% of income spent on **nbn** services

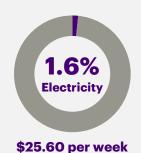


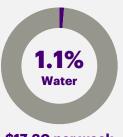
The average household spends \$16.90 a week on services over the **nbn** network. This equates to \$73 per month (\$16.90 x 4.34 weeks).

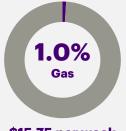
Relative to the average weekly household income of \$1,600 (post tax), the spend on services over the **nbn** network is only 1.1%. The following page details difference by plan and income.

# This is less than on electricity (1.6% of income) and about the same as on water (1.1%)









similar proportion of average income on other essentials like water (\$17.30 per week, 1.1%) and electricity (\$25.60 per week, 1.6%) and slightly more than gas (\$15.75) per week, 1.0%).

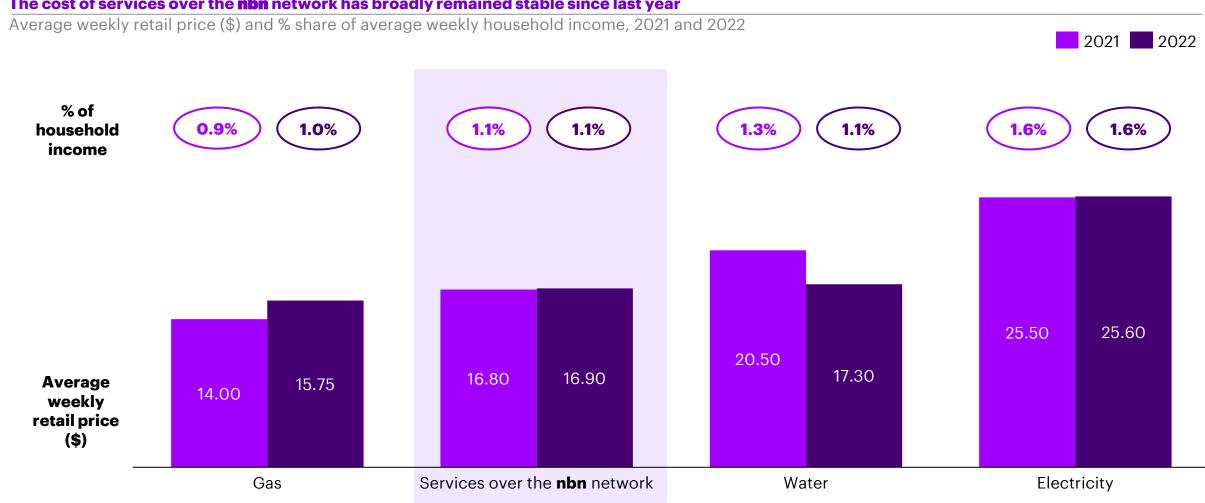
Australian households spend a

**\$17.30** per week

**\$15.75** per week

# For the average Australian household, the price of services over the **nbn** network is ~\$17 a week or 1.1% of income and has remained stable since 2021

# The cost of services over the **nbn** network has broadly remained stable since last year



# For low-income households, services over the **nbn** network cost between 1% and 2.3%, depending on the chosen speed tier

## For low-income households, services over the **nbn** network represents up to 2.3% of income

Share of average weekly household income (%), percentage points (pp) change since 2021

Entry level services over the **nbn** network costs **up to 1.2%** of income for low income households and **2.0%** for very low income households, representing no increase since 2021

Faster services over the **nbn** network costs **up to 2.3%** of income for low income households, and up to **3.8%** for very low income households

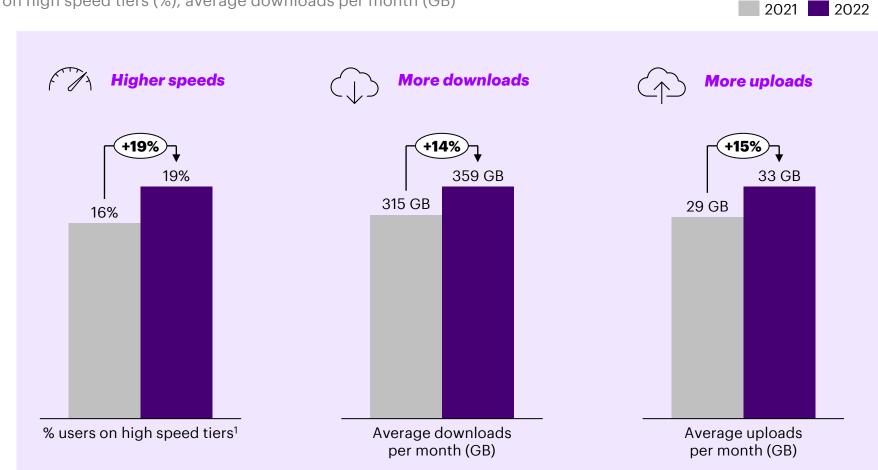
	Very low income (~\$750 p.w.)	<b>Low income</b> (~\$1,250 p.w.)	Medium income (~\$1,400 p.w.)	<b>High</b> <b>income</b> (~\$1,850 p.w.)	Very high income (~\$2,750 p.w.)
mbn12	1.62%	1.00%	0.87%	0.66%	0.45%
	↓0.18pp	\$0.1pp	\$0.03pp	\$0.04pp	↓0.05pp
HD ← nbn25	1.97%	1.18%	1.05%	0.80%	0.54%
	↓0.04pp	#0.12pp	\$0.05pp	J0.10pp	\$0.04pp
<u>4Κ</u> ζ <sub>√↑</sub> nbn50	2.23%	1.34%	1.20%	0.90%	0.61%
	↓0.07pp	JO.17pp	-	J0.10pp	&0.01pp
	2.80%	1.68%	1.50%	1.13%	0.76%
	#0.3pp	#0.18pp	\$0.3pp	\$0.13pp	\$0.16pp
<u>®K</u> ←	3.78%	2.34%	2.05%	1.56%	1.05%

Notes: 1. **nbn250+** plans are newly analysed for 2022 and was not included in last year's report due to data availability issues. 2. Weekly average household income is rounded to nearest 50; 3. Weekly income is post tax and calculated using the five AU income tax bracket rates across the ABS income quintile groups; 4 **nbn** is the wholesale provider of services over the **nbn** network and does not set retail prices. The prices paid by consumers for access to the **nbn** network are determined by Retail Service Providers (RSPs). Unless specified otherwise, reference to the affordability of **nbn** in this report refers to the affordability of prices of services over the **nbn** network. Only non-bundled plans are used to calculate the average price of plans. Sources: ABS Household Financial Resources 2020: **nbn** internal data: Accenture analysis.

# **nbn** users received more value for money in 2022; higher speeds and more data for a similar price compared to 2021

## **nbn** users are enjoying higher speeds and more downloads and uploads for the same price

Average retail price per week (\$), % users on high speed tiers (%), average downloads per month (GB)



Similar price

\$16.80/week \$16.90/week

Average retail price per week (\$)



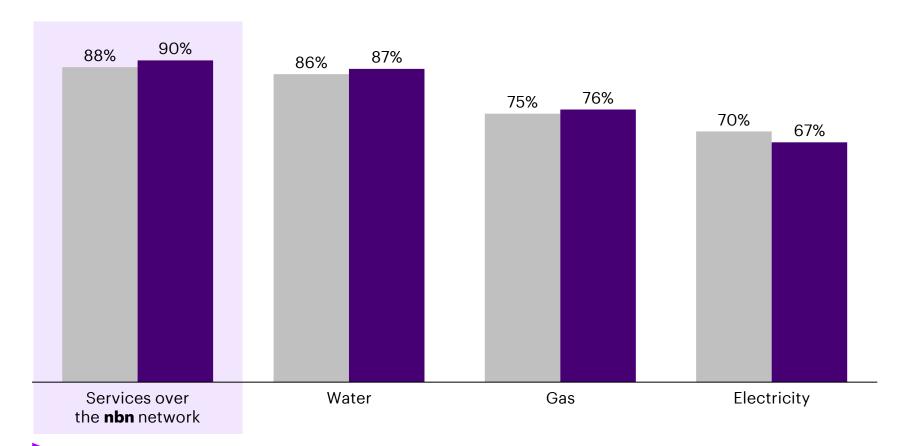
# Despite rising costs of living, 9 in 10 **nbn** users are unconcerned about the affordability of services over the **nbn** network

# **nbn** users consider services over the **nbn** network to be more affordable than other household utilities

% survey respondents; Survey question: How would you rate the following in terms of affordability?

A: 'Highly affordable', 'Affordable' or 'Unsure/neutral'

2021 2022



Despite rising costs of living and the squeeze on household budgets, the vast majority of **nbn** users continue to be unconcerned about the affordability of services over the **nbn** network.

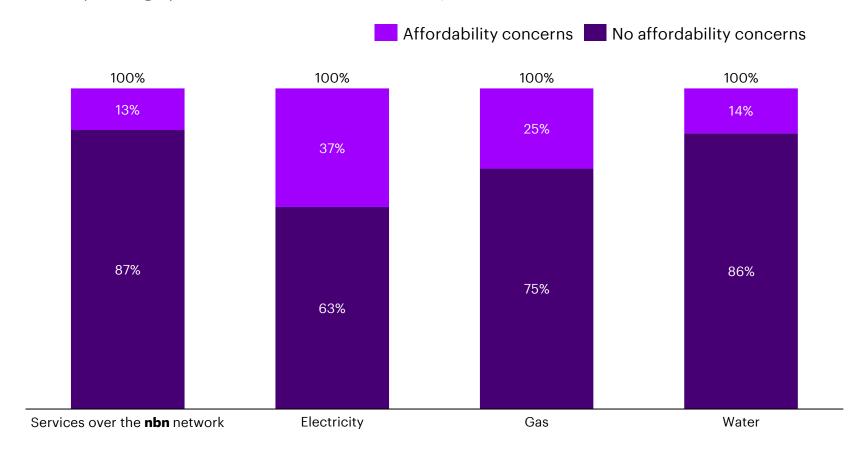
In 2022, 9 in 10 of **nbn** users were unconcerned with the price of services over the **nbn** network – a 2pp improvement from 2021.

Fewer users find the cost of water, gas and electricity to be affordable. Notably, only 67% of users find electricity to be affordable.

# Low-income households are more likely to be concerned about the affordability of other critical utilities

## Low-income households consider services over the **nbn** network to be more affordable than other utilities

% low-income survey respondents; Survey question: How would you rate the following in terms of affordability? A: 'Highly affordable', 'affordable' or 'unsure/neutral'

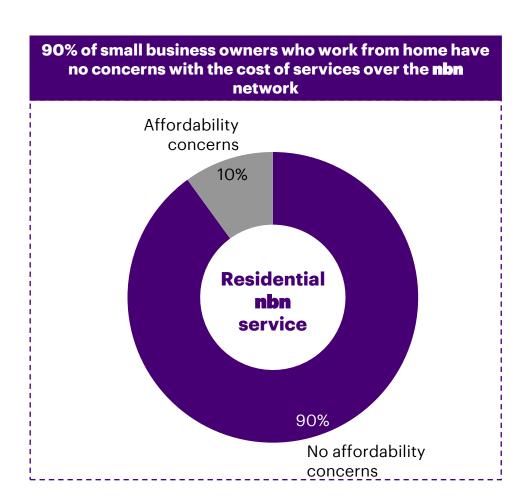


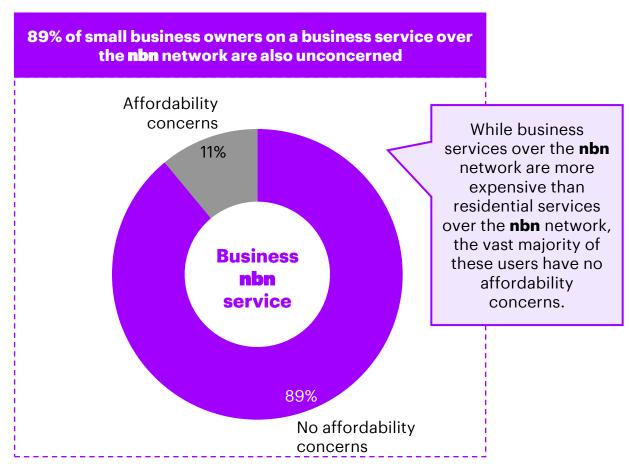
Generally, low income households seem more concerned about the affordability of household utilities than middle and high income households.

However, a large majority of low-income<sup>1</sup> households are unconcerned about the affordability of services over the **nbn** network - 87% have no concerns.

For middle income<sup>2</sup> households, this number increases to 88%. And for high income<sup>3</sup> households, it increases once more to 95%.

# The cost of services over the **nbn** network is not a concern for 9 in 10 small business owners who work from home







# Across the four key speed tiers, the affordability of Australia's broadband ranks in the top half of 13 OECD countries

Australia ranks in the top half of OECD countries in terms of affordability when taking into account relative purchasing power and income levels. Affordability has been assessed separately across download speed category (12, 25, 50 and 100 Mbps).<sup>4</sup>

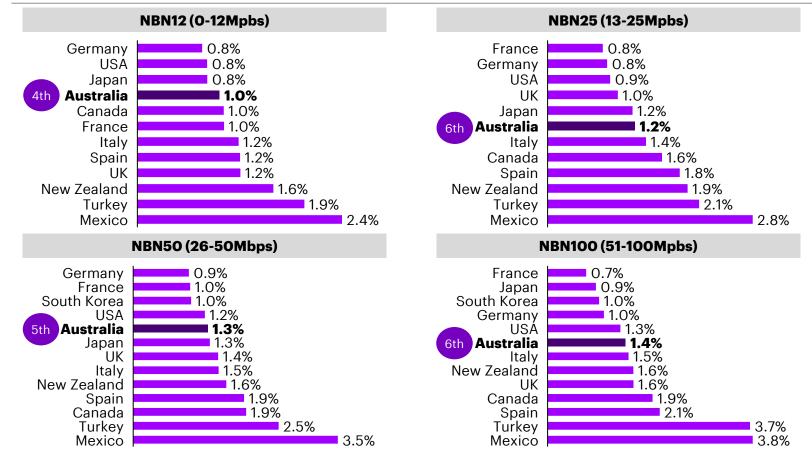
Australia ranks 5<sup>th</sup> highest in the NBN50 speed tier which represents its largest customer base (60%).

Affordability appears to be consistent across various speed tiers with Australia consistently placing between 4<sup>th</sup> and 6<sup>th</sup> amongst its OECD peers.

It is also interesting to note that New Zealand, which represents a similar geographic, cultural and economic comparison, consistently ranks behind Australia.

## Broadband affordability (measured as a share of income) across speed tiers for 13 OECD countries<sup>1,2,3</sup>

Median broadband price (excluding bundles & inclusions) as a share of per capita income, %



Notes: 1. The OMDIA dataset includes information for Data for 20 OECD countries. Eight countries have been excluded due to data limitations (such as insufficient data) or data that can not be compared with Australia due to differences in speed tiers or broadband offerings. The excluded countries are Brazil, China, India, Indonesia, Nigeria, Russia, Saudi Arabia and South Africa. The countries included are consistent with the previous report. New Zealand broadband plans are from 2018 Q1, 2021 Q1 and are not sourced from the OMDIA dataset. 2. Countries that have less than 5 broadband plans within a speed tier are excluded from the rankings for that tier 3. The latest available data from 2016 to 2021 is used for each country from the OMDIA dataset. For Australia, the OMDIA dataset includes a mix of **nbn** and non-**nbn** plans and does not contain any plans from 2016. 4. The analysis does not include NBN250+ as for Australia only a small percentage of connections are on these speed tiers, and the dataset only has 2 plans in this speed tier in 2021; METHOD: More detail on the methodology can be found in the Appendix. Sources: OMDIA Broadband Pricing Interactive Tracker; World Bank; Accenture analysis; NZ broadband plans data - broadbandcompare.co.nz, Wayback Machine (Internet Archive), Desktop Research.

# Overall, Australia has the 6th most affordable broadband of 13 OECD countries

## Australia's broadband has stayed consistent at 6th most affordable of the 13 OECD countries

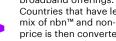
Ranking based on broadband price as a share of per capita income

	Country	Average rank 2022	Average rank 2021	Change (2021-22)
1	Germany	1	1	=
2	France	2	2	=
3	South Korea	3	3	=
4	USA	4	5	<b>û</b> 1
5	Japan	5	4	<b>Д</b> 1
6	Australia	6	6	=
7	UK	=8	=8	=
8	Italy	=8	=8	=
9	Canada	9	9	=
10	New Zealand <sup>1</sup>	10	11	҈ 1
11	Spain	11	10	Д1
12	Turkey	12	12	=
13	Mexico	13	13	=

After equating the cost of broadband across each country using Purchasing Power Parity and taking into account each country's relative capacity to pay for broadband, Australia ranks 6th amongst 13 comparable OECD countries.

This overall rank is based on the average rank across the four key speed tiers. Measures of affordability are consistent across four speed tiers, ranking between 4th and 6th.

New Zealand, a similar country in terms of geography, culture and economy ranks 11th out of these 13 OECD countries.



O5 Appendix



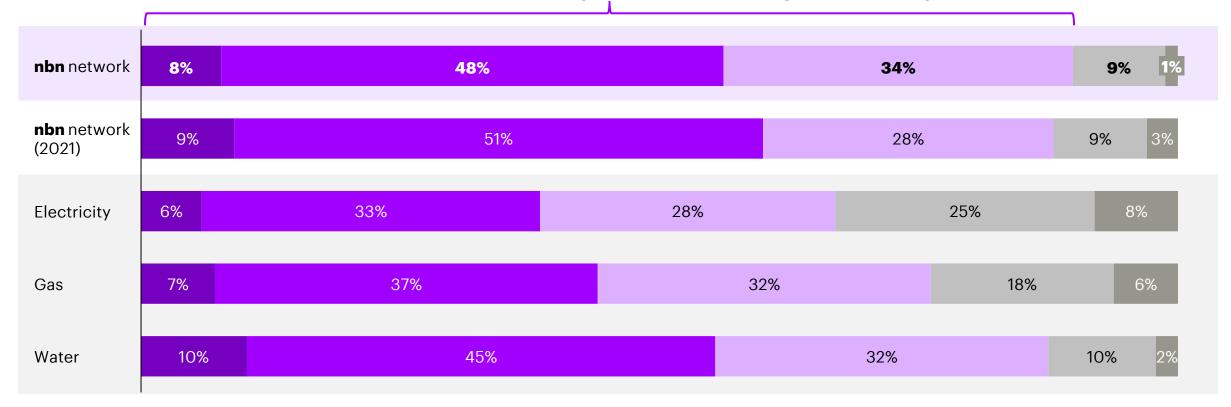
# **nbn** user perceptions of the affordability of household utilities

## **nbn** users consider services over the **nbn** network to be more affordable than other household utilities

% of respondents; Survey question: How would you rate the following in terms of affordability?

Highly affordable Affordable Unsure/Neutral Unaffordable Highly unaffordable

# 90% have no concerns with the affordability of the **nbn** network, compared to 88% last year



O6 Sources and methodology



# **Methodology: Data sources used for this report**

Note: Analysis for this report was conducted in late-2022. Data used was the latest available at the time, and where relevant the date has been noted against each source below.

Source	OMDIA International Broadband Price Tracker	nbn	<b>C</b> onsumer survey	Public data sources and reports
Information	<ul> <li>Information:         <ul> <li>Features and price of broadband plans over time across different countries, from December 2012 to December 2021, OMDIA International Broadband Price Tracker, as at December 2021.</li> <li>Note: NZ broadband plans were sourced separately using secondary research (see 'secondary research' section to the right).</li> <li>Sample size: 12 countries, 2,841 broadband plans (excl. NZ)</li> </ul> </li> </ul>	<ul> <li>Information:         <ul> <li>nbn customer share and retail prices across different speed tiers, includes 394 plans across 33 RSPs, nbn RSP Price Tracker, June 2022</li> <li>Download and uploads activity on the nbn network by service, nbn Activity Data January 2020 to July 2022</li> </ul> </li> </ul>	<ul> <li>Information:         <ul> <li>Consumer sentiment towards affordability of services over the nbn network (Accenture/nbn consumer survey, September 2022)</li> <li>Representative sample of Australian population</li> <li>The survey has the following components:</li> <li>Survey of nbn users (n=2,001). This includes small business owners who work from home using services over the nbn network (n=197)</li> <li>Survey of the 'unconnected', i.e. no-nbn connection at home (n=305)</li> </ul> </li> <li>Total survey size: 2,306</li> </ul>	<ul> <li>Information:</li> <li>General population data</li> <li>Australian population: ABS Census, 2021</li> <li>Household income and expenditure: ABS Household Financial Resources, June 2020; ABS Household Income and Wealth, 2019-20, ABS Household Expenditure Survey, June 2016</li> <li>Wage-price index: ABS Wage Price Index, June 2022</li> <li>Inflation: ABS CPI, June 2022</li> <li>Average expenditure on essential utilities <ul> <li>Electricity: Australian Energy Market Commission, November 2021</li> <li>Water: CANSTAR Blue Research, August 2021</li> <li>Gas: CANSTAR Blue Research, November 2021</li> </ul> </li> <li>Essential utilities value for money: productreview.com.au data, as at September 2022</li> <li>Public information about nbn: <ul> <li>Market share of RSPs: ACCC's nbn Wholesale Market Indicators Report, June 2022</li> <li>Distribution of broadband connections across speed tiers and market share: nbn Services in Record Keeping Rules disclosures to ACCC, June 2022</li> </ul> </li> <li>NZ broadband plan data: broadbandcompare.co.nz data from September 2022. To ensure consistency, NZ Data was collected in a manner closely aligned to data collection methodology used for the OMDIA data. A larger sample of NZ plans was used (-550) to reduce sampling bias and the mix of plans was reviewed to ensure it was broadly representative of the NZ broadband market.</li> <li>Images from Pexels and Unsplash.</li> </ul>

# Methodology: Overview of the affordability assessment approaches used in this report

### The value of multiple approaches

Affordability is challenging to define because it depends on price, consumers' financial situations and society's expectation and perceptions of 'reasonable' costs. To account for this, price comparisons have considered household income, expenditure and 'purchasing power' (which captures the relative prices of goods and services in Australia), and qualified using survey data to capture consumer sentiment. Additionally, prices have been compared to peer OECD countries. The combination of these methods enables a broad assessment of affordability.

### Table 2: Summary of affordability metrics methodologies



What does the average Australian pay for the nbn?

What are Australians' perceptions on the affordability of services over the nbn?

money?

€

Is Australian broadband affordable when compared to broadband prices in other countries?

What is the cost of services over the **nbn** network as a proportion of average household income?

How does this cost compare to other household essentials like electricity, gas and water?

network relative to other utilities? An important means of

Are Australians concerned about the

affordability of services over the **nbn** 

To validate results, we also considered external sources of consumer sentiment of affordability using

the **nbn** network to be value for

Do consumers consider services over

ProductReview.com Analysis of more than 45,000 reviews of broadband plans on Product Review was used. We

looked at the average rating for 'Value for money' and 'Rates and fees' on ProductReview.com to determine, from a score of five, how many people on average found the product to be 'Value for money'.

For this analysis, we considered the **nbn** network to include fixed line, fixed wireless and Sky Muster, and non-nbn broadband to include non**nbn** fibre, cable, ADSL and Starlink.

Affordability was assessed by comparing broadband prices to those in comparable OECD countries, relative to incomes in those countries.

We considered broadband data from over 2.8001 plans in the OMDIA Broadband Pricing Tracker. To accurately compare plans, we adjusted the quoted price by removing the value of additional features and inclusions and isolating the value of broadband through a regression technique. Naked prices were compared across countries, allowing for varying purchasing power and incomes.

#### The most common method of assessing affordability is to consider price relative to income.

Retail prices of currently sold services over the **nbn** network have been collected and compared to income data across quintiles. sourced from the ABS.

To find the average cost, we weight the unbundled price of services over the **nbn** network by the market share of RSPs and by the number of connections per speed tier on the **nbn** network. For this analysis, we considered only services over the **nbn** network that are fixed line and excluded fixed wireless and satellite services, due to low data availability and for consistency with previous reports.

#### Another affordability lens is to compare the cost of services over the **nbn** network to other household utilities.

The cost of services over the **nbn** network as a percentage of income has been compared to the average cost of electricity, gas and water as a percentage of income.

From CANSTAR and the Australian Energy Market Commission, we take the average price of utilities on a perstate basis, then weight this by distribution of the Australian population using ABS Census data.

# determining affordability is to measure consumer sentiment directly.

A survey of 2,306 people was undertaken, asking various questions about perceived affordability.

We surveyed both nbn users and the 'unconnected' about affordability. We also surveyed small business owners who work from home at least one day (i.e. seven or more hours) a week.

Respondents were selected from a cross section of Australian households: demographics and were reviewed to ensure sufficient representation.

# Methodology: International comparison – the affordability of Australian broadband has been compared to 12 OECD countries

# Australian broadband affordability was compared to 12 other OECD countries

OECD countries in the OMDIA Broadband Pricing Tracker<sup>7</sup> Top 2 Technologies4 (used for comparison) Average income per **Connections per OECD** country Major providers of broadband<sup>3</sup> **Fibre** DSL Cable 100 people<sup>2</sup> capita (\$USD)1 62,800 33 AT&T, Comcast, Verizon, Time Warner ✓ Germany 55,900 40 Vodaphone, Deutsche Telecom, Unity Australia 50,300 32 Telstra, Optus, TPG, iiNet ✓ ✓ Canada 38 48,900 Rogers, Shaw, Telus, BCE Canada 48.200 44 Orange, Free, Numericable/SFR ✓ 46,000 39 Virgin, BT, BSkyB, Sky ✓ New Zealand Vodafone, Spark, Orcon, 2degrees ✓ 43.900 34 43,700 Japan 32 NTT (East & West), JCOM, KDDI Italy 43.000 27 Telecom Italia, Wind/Infostrada, Fastweb ✓ South Korea 42,500 41 SK Broadband, LG U+, Korea Telecom ✓ Spain 41.200 31 Orange, Telefonica, Vodafone ✓ Turkey 27.500 15 TTNet, Turksat, Superonline Mexico 19.500 14 Telmax, Axtel, Cablemas ✓

Australia's broadband prices were compared with a selection of peer countries with similar broadband products and average incomes per capita. This approach was informed by the OMDIA Broadband Pricing Tracker, which captures broadband prices across countries and over time. The dataset<sup>5,6,7</sup> includes around 2,800 plans across 13 OECD countries.

Several important adjustments were made to further ensure fair comparisons across countries:

- The quoted prices were adjusted by extracting the value of additional features and inclusions and isolating the value of the broadband alone (i.e. the 'naked' broadband price) using a regression model.
- To fairly compare naked prices and factor in capacity to pay across countries, prices are converted to a single currency (\$USD), adjusted for purchasing power ('Purchasing Power Parity') and divided by average income per capita.

Notes: 1 Measured as 'Gross National Income' per capita, World Bank; 2; Fixed broadband subscriptions (per 100 people), 2021, World Bank; 3 This is not an exhaustive list and order is not reflective of market share. 4 Indicative only, showing the major two technologies in the OMDIA dataset. 'Fibre' includes: FTTB, FTTH, FTTx; 'DSL' includes DSL, ADSL, XDSL, VDSL. 5. The latest available data from 2016 to 2021 is used for each country from the OMDIA dataset; 6. For Australia, the OMDIA dataset includes a mix of **nbn** and non-**nbn** retail plans and does not contain any plans from 2016. 7. The OMDIA dataset does not include data for New Zealand. NZ broadband plans were sourced using broadbandcompare.co.nz, Wayback Machine (Internet Archive), Desktop Research.

# Methodology: Comparing affordability of Australian broadband to other countries



## **Method overview**

- Train multivariate regression model using OMDIA broadband plan data.
   The model considers features including download speed, data caps, mobile data included, etc to predict the price of broadband plans.
- 2. Calculate the 'naked' broadband price by subtracting the value of additional plan inclusions (e.g TV channels included, mobile data included etc) from the quoted price.
- Convert local currency, 'naked' broadband prices into an 'affordability' metric in two steps –
  - a. Convert into \$USD using PPP (purchasing power parity)
  - Divide by Gross National Income per capita (available in PPP, \$US) for each country.
- 4. Compare the median 'naked' prices as a share of income for each country across different download speed tiers.
- 5. Obtain **final rankings** for affordability for each country by aggregating the speed-tier specific rankings.

## The fairest approach to compare affordability of broadband across countries is measuring price as a share of income

International comparisons across different metrics for NBN100 (51-100Mbps) broadband plans; as an example

## **Price comparison**

\$US converted at market exchange rates

- The simplest option to compare broadband prices across countries is to convert all of them into a single currency such as \$US.
- However the problem with this approach is that it leads to the trivial conclusion that the price of broadband is higher in richer countries (Balassa-Samuelson effect).

#### France South Korea 26 30 Japan Turkey 30 Mexico Italy 40 Germany Spain 49 UK New Zealand Australia 65 USA Canada

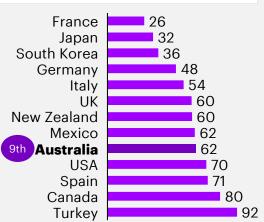
# Purchasing power comparison \$US converted at purchasing power parity

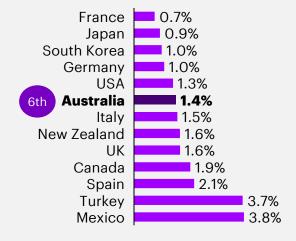
- An alternate approach is to convert prices into \$US at purchasing power parity (PPP). Comparing broadband in PPP terms effectively compares the ratio of broadband prices in each country with the price of other goods and services.
- While PPP is useful in comparing prices across countries, it doesn't shed light on how 'affordable' goods & services are, since it does not factor in the capacity to pay across countries.

# **Affordability comparison**

Prices as share of income

- Our approach is to compare prices in each country relative to the average income in that country (e.g. in Australia the median broadband price for NBN100 (51-100 Mbps) plans is 1.4% of income per capita, while in Canada it is 1.9%)
- This approach accounts for differences in income across countries and presents a true measure of affordability.







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