

The Australian Economic Review, vol. 49, no. 4, pp. 389-412



Markets, Monopolies and Moguls: The Relationship between Inequality and Competition

Andrew Leigh and Adam Triggs*

Abstract

Analysing private market research data, we estimate the degree of market concentration across 481 industries in the Australian economy. On average, the largest four firms control 36 per cent of the market. Some industries are considerably more concentrated. In department stores, newspapers, banking, health insurance, supermarkets, domestic airlines, Internet service providers, baby food and beer, the biggest four firms control more than 80 per cent of the market. We suggest ways in which high market concentration may increase inequality and discuss some policy ideas to address the problem.

* Leigh: Shadow Assistant Treasurer, Shadow Minister for Competition and Federal Member for Fenner, Australian Capital Territory 2600 Australia; Triggs: Crawford School of Public Policy, Australian National University, Australian Capital Territory 0200 Australia. Corresponding author: Leigh, email <Andrew.Leigh.MP@aph.gov.au>. This is an edited and extended version of the John Freebairn Lecture in Public Policy, delivered by the firstnamed author in Melbourne on 19 May 2016. The firstnamed author is grateful to Bill Griffiths for the invitation to deliver the lecture. Our thanks to several people—including John Asker, Chris Bowen, Jim Chalmers, John Daley, Craig Emerson and Nick Green—for valuable feedback on earlier drafts. Responsibility for any error lies with us alone.

1. Introduction

In 1992, packaging businessman Ed Zac started cardboard box manufacturer, Zacpac, with a leased factory in Caringbah and then a permanent factory in Ingleburn in Sydney. He had just one cutting machine and one folding–glueing machine (Zacpac 2016). A family-run operation, Zacpac hoped—like many small businesses—to grow large enough to employ more staff and expand its operations.

The cardboard box manufacturing industry is significant because such a large share of consumer products come packed in cardboard. Indeed, some have even suggested that if you want to see how the output of the overall economy is doing, you should look at the output of cardboard box manufacturers (Obel 2009). If people are not buying boxes, the theory goes, they are not buying products.

At the time when Zacpac began, the Australian cardboard box market was worth around \$2 billion. Not surprisingly, the firm's management wanted a share of the action. They did not expect to become billionaires, but they figured if they worked hard and played by the rules, they would be able to expand their operations.

Unfortunately for Zacpac, others had different ideas. Between them, two companies—Visy and Amcor—controlled over 90 per cent of the cardboard box market and they were not merely large—they were actively colluding. Over a 5 year period from 2000 to 2005, senior representatives of the two firms began a series of clandestine meetings (see Beaton-Wells and Brydges 2008).

In scenes reminiscent of spy thrillers, they met in hotels and motels, including the Rockman's Regency Hotel in central Melbourne and the Tudor Motel in Box Hill, Melbourne. They made phone calls from public phones and prepaid mobiles and met up in parks, including Westerfolds Park in Templestowe and Myrtle Park in North Balwyn, Melbourne (see Beaton-Wells and Brydges 2008).

The collusion went to the highest level in the firm and included a 2001 meeting at the All Nations Hotel in Richmond, Melbourne, between the firms' two chief executives: Amcor's Russell Jones and Visy's Richard Pratt.

Eventually, as sadly happens in so many clandestine affairs, things broke down. Since the start of their collusion, Visy's market share had grown from 47 per cent to 55 per cent of the market, but Amcor's had shrunk from 45 per cent to 36 per cent. At the end of 2004 (Beaton-Wells and Brydges 2008), Amcor went to the Australian Competition and Consumer Commission (ACCC) and announced it was willing to confess its role in the collusion in exchange for immunity from prosecution.

The ACCC took action, ultimately leading to a court judgement which imposed a \$36 million fine on Visy for price-fixing, the largest fine in Australian history at that time, and \$2 million worth of fines for the individuals involved (ACCC 2016). The ACCC also sought a criminal conviction against Richard Pratt for providing false evidence. This charge was ultimately abandoned on account of his poor health (Pratt died in 2009). A few years later, a class action brought by Maurice Blackburn on behalf of more than 1,000 businesses affected by the price-fixing led to Amcor and Visy paying out \$95 million (Maurice Blackburn Lawyers 2011).

In 2009, Australia criminalised cartel conduct with a jail term of up to 10 years. This put Australia in line with the United States, United Kingdom, Germany, Ireland and Canada. ¹ Those involved in the cardboard box cartel were fortunate that their cartel did not operate a few years later or they might have found themselves behind bars for serious cartel conduct.

The combined market share of Amcor and Visy is still large—at 84 per cent—but significantly down from the 91 per cent that it was at the peak of their duopoly (Beaton-Wells

and Brydges 2008; IBISWorld 2016). And what about Zacpac? Their Sydney factory has now expanded to five cutting machines and four folding–glueing machines—far more computerised than when it began (Zacpac 2016). Zacpac recently opened a second factory in Stapylton, on the Gold Coast. In the past few years, their business has grown at an annual rate of over 30 per cent (Hoy 2014).

Like a large tree that overshadows the saplings around it, firms that abuse their market power prevent newer competitors from growing. They hurt entrepreneurs and often reduce the scope for innovation. Consumers suffer through higher prices, lower quality and less choice.

But, some of the benefits of market power invariably go to the people who run the firms. At the time of his secret meeting at the All Nations Hotel, Richard Pratt was the thirdrichest person in Australia (Beaton-Wells and Brydges 2008).

But, are not moguls who made their money through wielding market power the exception? What about the story of ingenious entrepreneurs creating value for the community? Such examples do exist—think of Boost Juice founder, Janine Allis, Red Balloon founder, Naomi Simson, or Atlassian founders, Mike Cannon-Brookes and Scott Farquhar.

Alas, when it comes to the wealthiest Australians, breakthrough innovators are not the norm. Analysing how the richest Australians made their money, Frijters and Foster (2015) estimated that just five out of 200 had become rich primarily by inventing a new product or service. Far more commonly, the most affluent operated in industries with limited competition or with significant reliance on government decisions.

One analysis from the 1990s looked at the industries in which the rich-listers made their fortunes. It concluded that about one-quarter grew wealthy in an industry that was uncompetitive at the time (Siegfried and Round 1994). Since then, the problem may have become worse. As Stensholt (2012, p. 50) noted, 'There is a dearth of new, young and entrepreneurial people on the latest BRW rich list.'

The remainder of this article is structured as follows. We begin by looking at the extent to which the largest players dominate markets in Australia and how this has changed over time. Next, we discuss the relationship between uncompetitive markets and the rising inequality Australia has experienced in the past generation. We conclude by suggesting some ways in which competition laws might be amended in order to reduce inequality.

2. New Estimates of Market Concentration in Australia

Like us, we expect you are always looking for economic games to play at your next dinner party. So, here is one that we learned from John Daley, head of the Grattan Institute. Try seeing how many industries your guests can name that are *not* dominated by a few large players. We can guarantee you, this is a game that will not tie up the conversation all night.

Moving from anecdote to data, it turns out that an empirical analysis of market concentration in Australia is harder than one might think. Unlike the US Census Bureau, the Australian Bureau of Statistics (ABS) does not compile data on the market share of the largest firms. So instead, we are left to rely on private market research. In what follows, we present data drawn from IBISWorld Industry Reports, from which we were able to compile comparable market share data for 481 industries. All estimates are for 2016 and represent the shares of industry revenues. Appendix 1 lists the four-firm concentration ratios for all 481 sub-industries.

To take a few industry-specific examples, in department stores, newspapers, banking, health insurance, supermarkets, domestic airlines, Internet service providers, baby food and beer and soft drinks, the biggest four firms control more than four-fifths of the market. In petrol retailing, telecommunications, credit unions, cinemas, liquor retailing, bottled water and fruit juice, the largest four companies control more than two-thirds of the market. In pharmacies, pharmaceuticals, hardware, gyms, snack foods, magazines, newsagents

and international airlines, the big four account for more than half of the market.

The data also give a few answers for that dinner party game. Car dealers, hairdressers, dentists and law firms are all industries where the top four firms account for less than one-tenth of the market. Since it would be unwieldy to show a chart with all these industries, Figure 1 depicts market concentration for the 20 largest industries in Australia based on industry revenues.

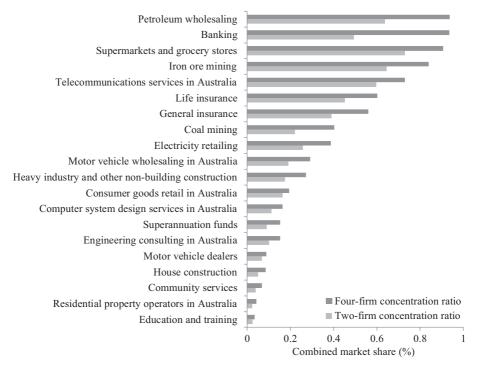
Although there is no set rule, a market with a four-firm concentration ratio of more than one-third is often considered to be concentrated. On this measure, almost half of the 481 IBISWorld industries are concentrated markets. Market concentration in Australia is a cradle-to-grave affair, running from baby food to funeral services. In the 481 industries covered, the weighted average market share of the largest four firms is 36 per cent (the unweighted four-firm concentration ratio is 38 per cent).

To see how market concentration differs across different sectors of the economy, we aggregate these 481 industries into the 19 sectoral classifications used by the Australian and New Zealand Standard Industrial Classification system.² In aggregating concentration estimates within each sector, we weight the data according to the share of total sectoral revenues that each industry comprises.

Figure 2 shows the four-firm concentration ratios for each of the 19 sectors that make up the Australian economy. The most concentrated sector is *Information, media and telecommunications*, followed by *Arts and recreation services* and *Mining*. The least concentrated sectors are *Construction* and *Education and training*. We return later in the article to look at possible correlates of market concentration across sectors.

While international comparisons of markets are complicated by definitional differences, it is worth noting that a recent analysis looked at 893 industries in the United States (The Economist 2016). On average, the largest four firms controlled 33 per cent of the US market—slightly less market concentration than our 36 per cent estimate for Australia. While it is

Figure 1 Market Concentration in the 20 Largest Australian Industries Based on Industry Revenues



Source: Authors' calculations, based on IBISWorld (2016).

possible that the US analysis is defining markets more broadly, this does suggest that large Australian firms are more dominant in our markets than large US firms are in that country.

By way of comparison, Figure 3 looks at 12 markets for which we were able to obtain four-firm concentration ratios for both countries. In three cases (pharmacies, bottled water and beer), Australia has equally or less concentrated markets than the United States. But in the remaining nine markets, Australia has more concentrated markets than the United States. The differences are largest for liquor retailing (where the top four US firms have 10 per cent, while the top four Australian firms have 78 per cent), commercial banking (US 26 per cent, Australia 94 per cent), supermarkets (US 31 per cent, Australia 91 per cent), health insurance (US 35 per cent, Australia 93 per cent) and cardboard manufacturing (US 36 per cent, Australia 88 per cent).

Admittedly, the United States is an imperfect competition benchmark for Australia, given that its population is 13-fold larger than ours. However, analyses focused on particular sectors have sometimes suggested that Australia has highly concentrated markets in specific sectors. The Finkelstein (2012) media inquiry found that, across 26 countries, Australia was the only one in which the leading press company accounted for more than half of daily newspaper circulation.

The ACCC's (2008b, p. xvi) grocery inquiry found that:

The lack of incentives for Coles and Woolworths to compete strongly across the board on prices reflects the high levels of concentration in the industry and frequent monitoring of competitors' prices. Evidence indicates that if one player attempts to lead prices down, the other will follow, making it extremely difficult for either to win significant numbers of customers from the other through an aggressive pricing strategy.

Information media and telecommunications Arts and recreation services Mining Manufacturing Transport, postal and warehousing Financial and insurance services Electricity, gas, water and waste services Public administration and support services Retail trade Wholesale trade Health care and social assistance Rental, hiring and real estate services Administrative and support services Accommodation and food services Professional, scientific and technical services Personal services Agriculture, forestry and fishing Education and training ■ Four-firm concentration ratio Construction ■ Two-firm concentration ratio 0.2 0.3 0.4 0.5 0.6 0.7 0.8 Combined market share (%)

Figure 2 Market Concentration across Sectors

Source: Authors' calculations, based on IBISWorld (2016).

Comparing our market with other countries, it noted that:

International comparisons show that market structures vary widely between countries. In some [Organisation for Economic Co-operation and Development] OECD member nations, including New Zealand and Austria, the grocery industry is dominated by two participants. The United Kingdom and Canada have a larger number of retailers, although there is one clear leader in each country. [ACCC 2008b, p. 41]

While recent years have seen a significant degree of price competition among supermarkets, the Australian majors have been among the most profitable supermarkets in the world (Evans 2015).

In the case of banking, Figure 4 shows a comparison across advanced nations, covering the period from 2009 to 2013. This suggests

that in these years, our banking sector was slightly more concentrated than the OECD average, with Australia ranking the 15th most-concentrated out of 33 nations (World Bank 2013).³ Charles Littrel from the Australian Prudential and Regulation Authority recently noted that the combined market share of the big four banks has doubled from 1990 to 2016. As reported by Whalley (2016, p. 76), Littrel warned of systemic risks, on the basis that because all four Australian lenders are 'in the same business model they're all hugely exposed to each other'.

Looking across countries, the World Economic Forum's 2015–16 Global Competitiveness Report has similarly found that Australia ranks poorly on a number of indicators relating to competition. On 'intensity of local competition',

Liquor retailing Commercial banking Supermarkets Health insurance Cardboard manufacturing Petrol retailing Soft drink manufacturing Domestic air travel Department stores Beer manufacturing Bottled water Pharmacies 10 20 30 40 50 60 70 80 90 100 ■ Australia ■ United States

Figure 3 Four-Firm Market Concentration in Australia and the United States

Sources: Authors' calculations, based on The Economist (2016); IBISWorld (2016).

Australia ranks nineth. But, on 'effectiveness of anti-monopoly policy', Australia is back at 32nd. When asked to rate 'the extent of market dominance' in Australia, the World Economic Forum's experts put Australia still further back, at 47th (World Economic Forum 2015).

Another piece of evidence about Australian market concentration can be seen from looking at the largest firms' share of the Australian economy. In Figure 5, we analyse the 10, 50 and 100 largest firms in Australia, both in terms of stocks (revenues) and flows (market capitalisation). To look at revenues, we combine IBISWorld Industry Reports with national accounts data from the ABS, which gives each firm's gross value added to the Australian economy. To look at market capitalisation, we analyse firms that are listed on the Australian Securities Exchange (ASX), using data from the *MorningStar DATAnalysis* database.

In terms of revenues, the 10 largest firms collectively account for 5 per cent of the Australian economy. The 50 largest firms

collectively account for 11 per cent and the 100 largest firms account for 14 per cent of the economy.⁴ In terms of market capitalisation, the 10 largest firms account for 62 per cent of the ASX. The 50 largest firms account for 89 per cent of the share market and the 100 largest listed firms account for 95 per cent of the share market.⁵

Is market concentration increasing? In the United States, economic Census data show that since the late 1990s, two-thirds of markets have experienced an increase in concentration. Across nearly 900 markets, the share of the largest four firms rose from 26 per cent in 1997 to 33 per cent in 2012 (The Economist 2016).

While the available data do not allow a parallel analysis for Australia, particular industries have become more concentrated. For example:

 In supermarkets, Australia has benefited from the entry of Aldi and Costco. But since 2008, the combined market share of Coles and Woolworths has risen from 60 per cent

Figure 4 Three-Firm Concentration Ratios in Banking across OECD Countries (average from 2009 to 2013)

Source: World Bank, Global Financial Development Database, 2013.

to 73 per cent (ACCC 2008b; IBISWorld 2016).

- In banking, the 2008 acquisition of St George by Westpac constituted a merger between the third- and fifth-largest banks in Australia. Depending on market definition, Westpac's market share went from between 12 per cent and 17 per cent to between 19 per cent and 25 per cent, according to the ACCC's (2008a) public competition assessment.
- In 2013, a joint venture saw Virgin airlines acquire 60 per cent of Tiger Airlines.
 Virgin's market share was 30 per cent and Tiger's was 2 per cent (ACCC 2013).
- In meat processing, the 2011 merger between Teys Bros (Holdings) Pty Ltd and Cargill Beef Australia led to increased market concentration (though the complexity of defining this market makes it difficult to quantify) (see ACCC 2011).
- In bottled drinks, the acquisition by Asahi (which owns Schweppes) of P&N beverages removed a competitor (P&N), which was

well known for supplying beverages at the lower end of the price spectrum. In bottled water, Schweppes went from 9 per cent to 19 per cent, and in fruit juice, Schweppes went from 5 per cent to 16 per cent (ACCC 2010).

 Among Internet service providers, the TPG merger with iiNet increased iiNet's share of fixed broadband services from 15 per cent to 27 per cent (ACCC 2015).

However, it is worth noting that the high degree of concentration on the ASX (shown in Figure 5) does not appear to have increased over the period 2000–2015.

Another approach to looking at changes in market concentration is to count the minnows, rather than measuring the whales. In Figure 6, we use ABS figures to look at the number of firms in the industry, compared to that industry's gross value added. From 2011–12 to 2014–15, the number of firms operating across all industries fell by 1 per cent, while gross value added increased by 11 per cent.

In some industries, the drop was particularly pronounced:

100 ■ Share of Australian GDP (LHS) ■ Share of total market 90 14 capitalisation (RHS) 80 12 70 10 60 % 8 50 40 6 30 4 20 2 10 0 Λ Top 10 firms Top 50 firms Top 100 firms

Figure 5 Shares of the Australian Economy Represented by the Largest Firms

Note: GDP denotes gross domestic product, LHS denotes left hand side and RHS denotes right hand side.

Sources: Authors' calculations, based on MorningStar DATAnalysis database, 2000–2015; ABS (2016); IBISWorld (2016).

- In mining, the number of firms fell by 2 per cent, while gross value added increased by 38 per cent.
- In rental, hiring and real estate services, the number of firms increased by 3 per cent but gross value added increased by 37 per cent.
- In retail trade, the number of firms fell by 8 per cent, while gross value added increased by 13 per cent.
- In information, media and telecommunications, the number of firms increased by 2 per cent, while gross value added increased by 19 per cent.
- In public administration and safety, the number of firms fell by 7 per cent, while gross value added increased by 14 per cent.
- In arts and recreation services, the number of firms fell by 6 per cent, while gross value added increased by 8 per cent.

The 'long tail' of small- and medium-sized businesses has shortened somewhat in recent years.

What might explain the observed degree of market concentration in Australia? The most obvious is market size and proximity to larger markets. As ACCC chair, Rod Sims, has observed: 'Australia has many markets that are highly concentrated, which is perhaps not surprising given the relative size of our population' (Sims 2013).

However, this does not explain why markets should have become *more* concentrated. Since the turn of the century, Australian population growth has been among the fastest in the advanced world and incomes per person have also risen (though not in recent years) (Infrastructure Australia 2015). If all that mattered was market size, there should be less market concentration in Australia, not more.

Yet a range of factors has pushed in the opposite direction. As the US Council of Economic Advisors (2016, p. 1) recently noted:

The causes underlying a possible decrease in competition and corresponding increase in market power are not clear, but candidate explanations include efficiencies associated with scale, increases in merger and acquisition activity, firms' crowding out existing or potential competitors either deliberately or through innovation,

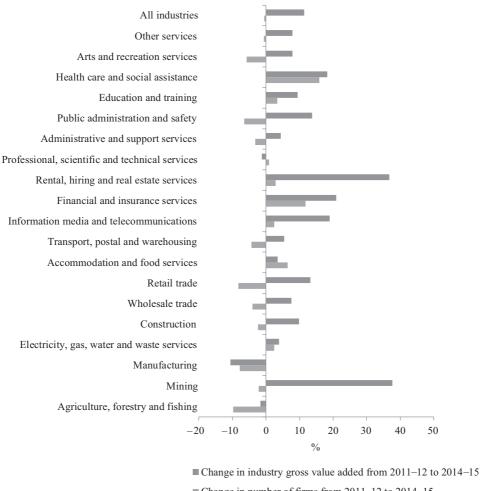


Figure 6 Changes in Number of Firms and Industry Value Added

■ Change in number of firms from 2011–12 to 2014–15

Sources: Authors' calculations, based on ABS (2015); IBISWorld (2016).

and regulatory barriers to entry such as occupational licensing that have reduced the entry of new firms into a variety of markets.

The Institute for Mergers, Acquisitions and Alliances tracks merger activity in Australia back to 1992. Over this period, the Institute reports that the number of mergers has risen from 394 (with a combined value of US\$12 billion) to 1,460 in 2015 (with a value of US\$117 billion). Merger activity peaked in Australia in 2007. In that year, Australia saw 3,094 mergers, valued at US\$344 billion (Institute for Mergers, Acquisitions and Alliances 2015).

Worldwide, the Institute for Mergers, Acquisitions and Alliances (2015) estimates that in the past three decades there has been almost a 10-fold increase in the number and value of mergers. Admittedly, not all merger activity will result in increased market concentration. In some cases, the counterfactual might be that one of the firms fails altogether. In other cases, merging companies may not be competitors. But in general, mergers tend to increase market concentration.

A similar pattern can be seen in new business formation. As we noted earlier, the total number of businesses in Australia fell by 1 per cent between 2011–12 and 2014–15 (Figure 6). As you might imagine, there is considerable churn in the business sector. Australia has around 2 million businesses. Each year, about 10–15 per cent of them shut down, while another 10–15 per cent start up (Figure 6).

In principle, a decline in the number of firms could be driven either by more exits or fewer entrants. In practice, the main trend has not been business collapse—indeed, the number of business exits has fallen slightly—but a slowing in new business formation. From 2011 to 2015, the rate of new business formation in Australia declined by 2 per cent. Over time, fewer new businesses are likely to lead to more market concentration.

Since the 1950s, services have steadily increased their share of the economy. As a higher proportion of the economy becomes weightless, the challenge of concentrated markets becomes harder still. In information technology industries, some early commentators had speculated that market concentration might be lower because barriers to entry and switching costs were lower. In many sectors, this now looks to be a forlorn hope. Google dominates search. Apple dominates smart phones. Facebook and Twitter dominate social media. Amazon and Alibaba are key players in online retailing (Team 2015). In the sharing economy, Uber and AirBNB have a significant share of their respective markets. Competitors struggle to make inroads due to a combination of intellectual property, network effects and merger activity. Ironically, the best hope for consumers is the prospect that the steady expansion of online platforms, such as Facebook and Google, will bring them into competition with one another.

3. Competition and Inequality

Analyses of inequality have tended to ignore the prospect that a lack of competition might be a significant driver of inequality. For example, work by Leigh (2013) sketched out the evidence that inequality has risen since the late 1970s. Over that period, Australia has seen

greater inequality in wages, household income, top income shares and top wealth shares. For example, Figure 7 depicts the divergence in real earnings over the period 1975–2014. Over four decades, earnings rose by 23 per cent at the 10th percentile, 44 per cent at the median and 72 per cent at the 90th percentile. For other analyses of long-run inequality in Australia, see Atkinson and Leigh (2007), Burkhauser, Hahn and Wilkins (2015), Wilkins (2015) and Katic and Leigh (2016).

As measured by top income shares, inequality in Australia today is as high as it has been in three-quarters of a century. However, when it came to analysing the drivers of inequality, Leigh (2013) focused on union membership, top tax rates, technology, globalisation and education—making only passing mention of uncompetitive markets.

By contrast, Atkinson (2015) is an excellent analysis of competition and inequality which looks at the interplay between competition and inequality. That work discusses how concentrated markets can lead to a more concentrated distribution of income and how competition policy should be different in a high-inequality society than in a low-inequality society.

As we teach undergraduates, increased market power leads to more producer surplus. In an era of high unionisation, some of this surplus would have been shared with shop floor employees, but as the power of organised labour has waned, this becomes less prevalent (Baker and Salop 2015). Instead, modern-day market power tends to benefit shareholders and top executives at the expense of consumers. Because both capital owners and senior executives are wealthier than the median consumer, market power tends to increase inequality.

Two Australian studies which look at the relationship between competition and inequality are Creedy and Dixon (1998, 1999). They found that monopoly power has a larger impact on lower income groups and increases inequality. The 1998 study used Australian Household Expenditure Survey data to generate demand elasticities for 14 commodity groups to obtain estimates of the relative welfare loss for households with different income levels. They found that the welfare loss associated with

120,000 10th percentile 100,000 50th percentile 90th percentile 80,000 60,000 40,000 20,000 0 1975 1980 1990 1995 1985 2000 2005 2010 Year

Figure 7 Inequality in Earnings in Australia (2014 dollars)

Source: ABS (2014).

monopoly power is largest for poor households, which depend on government pensions and benefits for their principal source of income. The 1999 study extended this analysis with more detailed measures of welfare (through equivalent variations) and inequality (using a larger number of households in the Household Expenditure Survey) and confirmed their findings that reduced competition can have substantial effects on the distribution of welfare.

Surveying the literature in both developed and developing nations, Begazo and Nyman (2016) from the World Bank similarly concluded that a lack of competition tends to hurt the poorest households the most. Comanor and Smiley (1975) found that past and current monopoly have had a major impact on the current degree of inequality in the United States. They found that possibly one-half of existing wealth holdings by the richest 2.4 per cent of American households was due entirely to capitalised monopoly gains. Importantly in terms of policy responses, Dutt (1984) found that policies that reduce monopoly power can have positive effects on both growth and income distribution.

A similar conclusion flows from Piketty's (2014) model of inequality, in which inequality

is said to rise when the rate of return to capital (r) exceeds the rate of economic growth (g). As is well known, the market equilibrium under monopoly is one in which prices are higher, output is lower and profits are higher than under perfect competition. Therefore, an increase in market power is likely to both increase the rate of return on capital and slow the rate of economic growth.

In an analysis of competition in the US economy, Dayen (2015) notes that since the 1980s, greater numbers of mergers have been approved by antitrust agencies, leading him to suggest the existence of an easier regulatory burden in recent decades. (One way in which this might occur is if the number of regulatory staff did not rise to match the number of mergers.) As a result, Dayen (2015, pp. 50–1) contends:

... monopolies drive inequality. Executives and Wall Street traders make astronomical incomes, while wages are squeezed. Post-merger price increases, from health care to cable TV service to airline tickets, translate into a decline in real wages. Big mergers also encourage reduction in actual wages, when consolidations produce layoffs and limit avenues for employment. And though high skills are supposedly a defense against wage cuts, cartel behavior by Silicon Valley firms to prevent raiding each other's workers kept wages for coders and engineers low.

Suppliers to platform monopolies experience a price crunch across the spectrum, reducing their own profits and funnelling them to the biggest firms, where they pass to executives.⁶

Dayen (2015, p. 51) quotes Joseph Stiglitz: 'High concentration in the [personal computer] PC platform market with Microsoft gives rise to the richest person in the country. Monopoly increases wealth at the top, and for average Americans real wages decrease.' Similarly, an analysis of American markets in *The Economist* magazine notes the lack of competition in many sectors and points out: 'High profits can deepen inequality in various ways. The pool of income to be split among employees could be squeezed. Consumers might pay too much for goods' (The Economist 2016).

It is sometimes suggested that monopoly power ultimately benefits consumers by spurring innovation. While this is theoretically possible, it is easy to think of examples in which market power *reduces* social welfare in innovative industries; for example, by exclusive contracts that lock in inferior technologies. Moreover, this argument does not apply to all industries. In the example of the cardboard box cartel that we opened with, it is difficult to see any evidence that the duopoly's market power encouraged greater innovation.

At a macroeconomic level, others have suggested that the US economy is exhibiting the hallmarks of excessive market power. Krugman (2016, p. A21) observes that:

Profits are at near-record highs, thanks to a substantial decline in the percentage of GDP going to workers. You might think that these high profits imply high rates of return to investment. But corporations themselves clearly do not see it that way: their investment in plant, equipment, and technology (as opposed to mergers and acquisitions) hasn't taken off, even though they can raise money, whether by issuing bonds or by selling stocks, more cheaply than ever before.

As Krugman points out, if high corporate profits reflect growing monopoly power, then 'the result would be what we see: an economy with high profits but low investment, even in the face of very low interest rates and high stock prices' (Krugman 2016, p. A21).

Similarly, Summers (2016a) has suggested that his theory of 'secular stagnation' may be partially driven by rising market power. Like Krugman, Summers (2016b) notes that:

The rate of profitability in the United States is at a nearrecord high level, as is the share of corporate revenue going to capital. The stock market is valued very high by historical standards, as measured by Tobin's q ratio of the market value of the nonfinancial corporations to the value of their tangible capital. And the ratio of the market value of equities in the corporate sector to its GDP is also unusually high.

A high rate of return to old capital would imply that there is a high payoff to investment in new capital. Yet, as Summers (2016b) points out, 'business investment is either in line with cyclical conditions or a little weaker than would be predicted by cyclical conditions'. He suggests one way of reconciling this:

It could be that higher profits do not reflect increased productivity of capital but instead reflect an increase in monopoly power. If monopoly power increased one would expect to see higher profits, lower investment as firms restricted output, and lower interest rates as the demand for capital was reduced. This is exactly what we have seen in recent years!

Although most of the theories about competition and inequality posit economy-wide effects, it is nonetheless worth looking at the available industry-level data to see whether there is any relationship between the degree of market concentration in a sector and the wage share of total factor income. As Figure 8 depicts, the relationship is modestly negative—suggesting that the wage share is lower in more concentrated industries—but does not approach statistical significance.

4. Possible Policy Responses

The speech version of this article (Leigh 2016) was delivered during the federal election campaign. As Shadow Minister for Competition, Leigh announced four policies that Labor intended to pursue if elected. Sadly (from our perspective), Labor narrowly lost the 2016 election.

100 90 Employee compensation as a percentage 80 70 of total factor income 50 40 30 20 10 0 0 20 40 80 60 Four-firm weighted concentration ratio (%)

Figure 8 Market Concentration and the Wage Share

Sources: IBISWorld (2016); ABS (2016).

Nonetheless, even the world of the secondbest can be made better. So in the interests of improving policy development, we set out below four ideas that might be implemented by a future government seeking to help tilt the playing field towards the most disadvantaged.

First, amend section 76 of the *Competition* and *Consumer Act 2010* (Cwlth) to allow the court to apply higher penalties for conduct that targets or disproportionately impacts disadvantaged Australians or apply lower penalties when firms have provided adequate compensation to those affected. Consumer rip-offs are always reprehensible, but they have a different impact on the most affluent, compared with the most vulnerable. To a high income consumer, losing a few thousand dollars might be an annoyance. To a low income consumer, losing a few thousand dollars might be life-changing.

Second, include a requirement in the *Competition and Consumer Act* that the ACCC prioritise investigations of conduct that targets or disproportionately impacts disadvantaged Australians. The growth of inequality may make it desirable to enact an explicit legislative requirement for the competition regulator to put the most vulnerable first.⁸

Third, task government to investigate the impacts of increased market concentration on income inequality in Australia and produce policy recommendations on how the negative

effects of market concentration can be mitigated. This kind of high-level exercise could explore ways in which highly concentrated markets widen the gap, as well as suggesting practical ways in which competition and consumer laws can reduce inequality.

Fourth, encourage states and territories to include competition principles in planning and zoning legislation, as recommended by the Harper Review, with a specific focus on shortfalls of appropriately zoned land for key services in disadvantaged communities. Traditionally, inner-city zoning issues have attracted a disproportionate share of public attention, leaving zoning in outer suburbs to be neglected. Ensuring that states and territories provide proper attention to outer suburbs and apply competition principles might improve the sustainability of these communities.

5. Conclusion

The past generation has been very kind to those at the top of the income distribution. The top 1 per cent share has doubled. The top 0.1 per cent share has tripled. Never in Australian history has such a large share of the population owned private jets, private helicopters, Porsches and Maseratis.

Yet, at the same time, a significant share of the population is doing it tough. Nearly one-quarter of Australians say that they could not raise \$3,000 in an emergency without doing something drastic (Melbourne Institute of Applied Economic and Social Research, University of Melbourne 2014). One in five families says that they cannot afford a week's holiday away from home once per year. One in eight cannot afford dental care. One in 20 cannot afford Christmas presents for family and friends (Leigh 2013).

Looking at industry data for 481 markets, Australia's product markets appear highly concentrated. Applying the rule of thumb that a market is concentrated if the largest four firms control one-third or more, over half of the industries in the Australian economy are concentrated markets.

Concentrated markets are not solely responsible for rising inequality, but it seems likely that they have played a part in the steady rise in inequality over the course of the past generation. Engendering more competition in Australia would not only have efficiency benefits, but most likely equity impacts as well.

Similarly, on the policy side, competition and consumer laws will never be the only way in which governments seek to fight inequality, but they should be enjoined in the battle. By tilting competition and consumer laws towards the most disadvantaged, it might be possible to help ameliorate the rising gap between the rich and the rest.

July 2016

Appendix 1: Four-Firm Concentration Ratios across Industries

Table A1 lists the four-firm concentration ratios for all 481 sub-industries.

Table A1 Four-Firm Concentration Ratios

No.	Industry	Market share of the top four firms (%)
	odation and food services	12.00
	s, bars and nightclubs food services	13.90 42.70

Table A1 Continued

		Market share of the top four
No.	Industry	firms (%)
3	Restaurants	4.00
4	Social clubs	4.00
5	Catering services	53.30
6	Hotels and resorts	18.90
7	Cafes and coffee shops	12.60
8	Serviced apartments	4.00
9	Motels	4.00
10	Caravan parks and camping	4.00
11	Holiday houses	4.00
Adn	inistrative and support services	
12	Temporary staff services	22.10
13	Employment and recruitment	
	services	14.00
14	Commercial cleaning	15.60
15	Travel agents	39.20
16	Packaging services	4.80
17	Event promotion	10.80
18	Payroll and other administration	
	services	9.00
19	Call centres	13.60
20	Building pest control	4.00
21	Debt collection	36.10
22	Credit agencies	75.70
Agri	culture, forestry and fishing	
23	Grain growing in Australia	4.00
24	Beef cattle farming	4.00
25	Grain sheep or grain beef cattle	
	farming	5.40
26	Shearing, cropping and agriculture	
	support services	4.00
27	Dairy cattle farming	4.00
28	Forestry and logging	20.00
29	Sheep-beef cattle farming	4.00
30	Beef cattle feedlots	21.10
31	Outdoor vegetable growing	5.00
32	Sheep farming	20.00
33	Citrus, banana and other fruit	19.30
34	Cotton ginning	51.70
35	Fishing in Australia	5.80
36	Hay and other crop growing	4.00
37	Pig farming	35.60
38	Aquaculture	39.70
39	Sugar cane growing	6.00
40	Grape growing	4.00
41	Horse farming	13.50
42	Apple, pear and stone fruit	
	growing	4.00
43	Cotton growing	12.30
44	Egg farming	74.30
45	Nursery production	4.00
46	Forestry support services	16.70
47	Rice growing	93.40
48	Poultry meat farming	13.70
		Continued

Continued

Table A1 Continued

Table A1 Continued

49 Undercover vegetable growing 36.00 50 Floriculture production 25.10 Education and training 25.10 Education and training 25.10 Education and training 25.10 25.10 Education and training 25.10 2	Market share of the top four firms (%)	Industry		Market share of the top four firms (%)	Industry	No.
51 Turf growing 4.00 92 Education and training Arts and recreation services 93 Universities 52 Lotteries 85.50 94 Technical and vocational education 53 Casinos 97.40 and training 54 Sports administrative services 42.00 95 Art and non-vocational education 55 Horse and sports betting 85.40 96 Sports instructors 56 Sports and physical recreation clubs 19.30 97 Electricity retailing 58 Art galleries and museums 20.60 98 Electricity trailing 59 Horse and dog racing 37.20 99 Water supply 60 Cyms and fitness services 63.50 100 Gas supply 61 Sports and physical recreation 101 Sewerage and waste services 62 Nature reserves 22.80 103 Waste remediation 63 Zoological and botanical gardens 46.70 104 Electricity transmission 64 Amusement parks 59.80 105 Waste remediation 65 Performing arts venues 39.90 services 66 Heavy industry and other non-building construction 8.50 pentation 67 House construction 8.50 pentation pentation 68 Commercial and	17.60	Insulation services		36.90	Undercover vegetable growing	49
Arts and recreation services		cation and training	uca	25.10	Floriculture production	50
52 Lotteries 85.50 94 Technical and vocational education 37.40 and training 45.45 Sports administrative services 42.00 95 Art and non-vocational education 55.45 Sports and sports betting 85.40 96 Sports instructors 56 Sports and physical recreation clubs 10.90 Electricity; gas, water and waste services 57 Music and theatre 19.30 97 Electricity; distribution 97.20 98 Electricity distribution 98 Electricity distribution 98 Electricity distribution 99 Water supply 100 Good Gyms and fitness services 63.50 100 Gas supply 101 Sewerage and waste services 63.50 100 Gas supply 101 Sewerage and waste services 64.70 104 Electricity transmission 102 Solid waste collection services 103 Waste remediation 103 Waste remediation 103 Waste remediation 104 Electricity transmission 105 Waste treatment and disposal 107 Eliquid waste collection services 107 Eliquid waste collection services 107 Eliquid waste collection services 108 Wind and other electricity generation 107 Eliquid waste collection 107 Eliquid waste collectricity generation 107 Eliquid waste collection 107 Eliquid waste collectricity 107 Eliquid waste collection 107 Eliquid waste collection 107 Eliquid waste collection 107 Eliquid waste collectricity 107 Eliquid waste collect	3.50	Education and training		4.00	Turf growing	51
53 Casinos 97.40 and training 54 Sports administrative services 42.00 95 Art and non-vocational education 55 Horse and sports betting 85.40 96 Sports instructors 56 Sports and physical recreation clubs 10.90 Electricity, gas, water and waste services 57 Music and theatre 19.30 97 Electricity tistribution 58 Art galleries and museums 20.60 98 Electricity distribution 59 Horse and dog racing 37.20 99 Water supply 60 Gyms and fitness services 63.50 100 Gas supply 61 Sports and physical recreation 62 Nature reserves 22.80 103 Waste remediation 63 Zoological and botanical gardens 46.70 104 Electricity transmission 64 Amusement parks 59.80 105 Waste treatment and disposal services 65 Performing arts venues 39.90 105 Waste treatment and disposal services 66 Heavy industry and other non-building construction 27.20 108 Wind and other electricity generation 66 Heavy industry and other non-building construction 9.50 109 Superannuation funds 67 House construction 9.50 109 Superannuation funds 68 Commercial and industrial building construction 17.20 111 Life insurance 111 Life insurance 69 Site preparation services 8.80 113 Health insurance 70 Multi-unit apartment and townhouse construction 28.00 114 Foreign banks in Australia 115 Custody, trustee and stock exchange services 120 Institutional building construction 13.00 117 Insurance brokerage 121 Investment banking and securities services 121 Investment banking and securities services 122 Financial planning and securities brokerage 121 Investment banking and securities brokerage 122 Financial planning and investment advice and security alarm installation 20.80 122 Financial planning and investment advice and security alarm installation 20.80 122 Financial planning and investment advice 20.90 123 Money market dealers 121 Investment banking and securities brokerage 122 Financial planning and investment advice 20.90 123 Money market dealers 121 Investment banking and securities brokerage 20.90 122 Financial planning and investment advice 20.90 123 Money market dealers 20.90 1	27.50	Universities		9	and recreation services	Arts
54 Sports administrative services 55 Horse and sports betting 56 Sports and physical recreation clubs 57 Music and theatre 58 Art galleries and museums 58 Art galleries and museums 59 Horse and dog racing 50 Gyms and fitness services 51 Sports and physical recreation 52 Horse and hopsical recreation 53 Art galleries and museums 54 Art galleries and museums 55 Horse and dog racing 56 Gyms and fitness services 57 Music and theatre 58 Art galleries and museums 59 Horse and dog racing 50 Gyms and fitness services 61 Sports and physical recreation 50 facilities 51 Sports and physical recreation 51 Sewerage and waste services 62 Nature reserves 63 Zoological and botanical gardens 64 Amusement parks 65 Performing arts venues 65 Performing arts venues 66 Performing arts venues 67 Performing arts venues 68 Comstruction 69 Site preparation services 69 Site preparation services 60 Liquid waste collection services 60 July Waste terathent and disposal services 60 July Waste collection services 61 House construction 60 Heavy industry and other non- 61 building construction 61 House construction 62 Site preparation services 63 July Waste collection services 64 Commercial and industrial puilding construction 75 July Waste collection services 76 House construction 77 Multi-unit apartment and townhouse construction 78 Ilectrical services 79 Road and bridge construction 79 Plumbing services 70 Air conditioning and heating sub-division 71 Ilectrical services 71 Metal cladding, water-proofing and sub-division 72 Land development and sub-division 73 Institutional building construction 74 Plumbing services 75 Air conditioning and heating services 76 Carpentry services 77 Metal cladding, services 78 Air conditioning and heating services 79 Air conditioning and heating services 80 Painting and decorating services 81 Landscaping services 82 Plastering and ceiling services 83 Structural steel erection services 84 Tiling and carpeting services 85 Fire and security alarm installation 86 Roofing services 87 Bricklaying services 88 Construct		Technical and vocational education		85.50	Lotteries	52
55 Horse and sports betting 56 Sports and physical recreation clubs 57 Music and theatre 58 Art galleries and museums 59 Horse and dog racing 50 Go Gyms and fitness services 50 Go Gyms and physical recreation 50 Facilities 51 Sports and physical recreation 52 Facilities 53 Sports and physical recreation 53 Acture reserves 54 Land betaring 55 Auture reserves 55 Land development and 56 Site preparation services 57 House construction 58 Site preparation services 59 Site preparation services 50 Site preparation services 51 Land development and sub-division 52 Land development and sub-division 53 Land development and sub-division 54 Landscaping services 55 Land development and sub-division 56 Carpentry services 57 Air conditioning and heating services 58 Concriting services 59 Air conditioning and heating services 50 Pairs and physical recreation clubs 50 Pairs and physical recreation services 51 Concriting services 52 Concriting services 53 Concriting services 54 OP Plansbirg services 55 Land development and sub-division 56 Site preparation services 57 Air conditioning and heating services 58 Concriting services 59 Air conditioning and heating services 50 Plastering and ceiling services 51 Conditioning and heating services 52 Conditioning and heating services 53 Concriting services 54 OP Plansbirg and ceiling services 55 Fire and security alarm installation 56 Concriting services 57 Concriting services 58 Gridaling services 59 Glazing services 60 Contruction machinery and 60 Capentri preparation services 61 Capentri planning and investment and ceiling services 62 Concriting services 63 Construction machinery and 64 Capentri preparation services 65 Construction mach	9.10	and training		97.40	Casinos	53
56 Sports and physical recreation clubs 10.90 Electricity, gas, water and waste services 57 Music and theatre 19.30 97 Electricity retailing 58 Art galleries and museums 20.60 98 Electricity distribution 59 Horse and dog racing 37.20 99 Water supply 60 Gyms and fitness services 63.50 100 Gas supply 61 Sports and physical recreation 101 Sewerage and waste services 62 Nature reserves 22.80 103 Waste remediation 63 Zoological and botanical gardens 46.70 104 Electricity transmission 64 Amusement parks 59.80 105 Waste treatment and disposal 65 Performing arts venues 39.90 services Construction 27.20 108 Wind and other electricity generation 66 Heavy industry and other non- 107 Liquid waste collection services 67 House construction 8.50 108 Wind and other electricity generation	9.00	Art and non-vocational education		42.00	Sports administrative services	54
57 Music and theatre 19.30 97 Electricity retailing 58 Art galleries and museums 20.60 98 Electricity distribution 59 Horse and dog racing 37.20 99 Water supply 60 Gyms and fitness services 63.50 100 Gas supply 61 Sports and physical recreation facilities 35.70 102 Solid waste collection services 62 Nature reserves 22.80 103 Waste remediation 63 Zoological and botanical gardens 46.70 104 Electricity transmission 64 Amusement parks 59.80 105 Waste treatment and disposal services 65 Performing arts venues 39.90 services Construction 27.20 108 Wind and other electricity generation 66 Heavy industry and other nonbuilding construction 8.50 109 Wind and other electricity 67 House construction 9.50 109 Superannuation funds 68 Commercial and industrial building construction <t< td=""><td>4.80</td><td>Sports instructors</td><td></td><td>85.40</td><td>Horse and sports betting</td><td>55</td></t<>	4.80	Sports instructors		85.40	Horse and sports betting	55
58 Art galleries and museums 20.60 98 Electricity distribution 59 Horse and dog racing 37.20 99 Water supply 61 Sports and physical recreation facilities 35.70 100 Gas supply 61 Sports and physical recreation facilities 35.70 102 Solid waste collection services 62 Nature reserves 22.80 103 Waste remediation 63 Zoological and botanical gardens 46.70 104 Electricity transmission 64 Amusement parks 59.80 105 Waste treatment and disposal services 64 Heavy industry and other non-building construction 106 Hydro-electricity generation 66 Heavy industry and other non-building construction 8.50 109 Wind and other electricity generation 67 House construction 8.50 109 Superannuation funds 68 Commercial and industrial building construction 17.20 110 Banking 70 Multi-unit apartment and townhouse construction 17.20 112 General insurance 71 Electrical services 8.80	;	tricity, gas, water and waste services	ctr	10.90	Sports and physical recreation clubs	56
Horse and dog racing 37.20 99 Water supply	38.70	Electricity retailing		19.30	Music and theatre	57
60 Gyms and fitness services 61 Sports and physical recreation facilities 50 Solid waste collection services 62 Nature reserves 63 Zoological and botanical gardens 64 Amusement parks 65 Performing arts venues 66 Performing arts venues 67 House construction 68 Commercial and industrial building construction 69 Site preparation services 60 Multi-unit apartment and townhouse construction 70 Multi-unit apartment and townhouse construction 71 Electrical services 72 Road and bridge construction 73 Institutional building construction 74 Plumbing services 75 Land development and sub-division 76 Carpentry services 77 Metal cladding, water-proofing and services 78 Concreting services 79 Air conditioning and heating services 70 Painting and decorating services 71 Painting and decorating services 72 Painting and decorating services 73 Structural steel erection services 74 Painting and decorating services 75 Fire and security alarm installation 80 Painting and ceiling services 81 Construction services 82 Plastering and ceiling services 83 Structural steel erection services 84 Tiling and carpeting services 85 Fire and security alarm installation 86 One Glazing services 87 Bricklaying services 88 Glazing services 89 Glazing services 90 Glazing services 910 Jage and waste services 910 Jage and waste remediation 101 Selectricity transmission 104 Electricity transmission 105 Waste treatment and disposal services 106 Hydro-electricity generation 107 Liquid waste collection services 108 Wind and other electricity 109 Superannuation funds 110 Financial and insurance services arrives services 111 Life insurance 112 Custody, trustee and stock exchange services 115 Custody, trustee and stock exchange services 116 Financial asset investing 117 Insurance brokerage 118 Superannuation funds management services 119 Non-depository financing 120 Find management services 121 Investment banking and securities 122 Financial planning and investment 123 Money market dealers 124 Mortyagae brokers 125 Fire and security alarm installation 126 Commun	50.80	Electricity distribution		20.60	Art galleries and museums	58
61 Sports and physical recreation facilities 35.70 102 Solid waste collection services 62 Nature reserves 22.80 103 Waste remediation 63 Zoological and botanical gardens 64 Amusement parks 59.80 105 Waste treatment and disposal services 65 Performing arts venues 39.90 66 Heavy industry and other non- building construction 66 Heavy industry and other non- building construction 68 Commercial and industrial building construction 69 Site preparation services 60 Multi-unit apartment and townhouse construction 70 Multi-unit apartment and townhouse construction 71 Electrical services 8.80 113 Health insurance 71 Electrical services 8.80 113 Health insurance 71 Electrical services 8.80 113 Health insurance 71 Institutional building construction 18.20 115 Custody, trustee and stock exchange services 75 Land development and sub-division 13.00 117 Insurance brokerage 118 Superannuation funds management services 108 Auto-division 13.00 119 Non-depository financing 110 Financial asset investing services 111 Insurance brokerage 112 Financial planning and investment services 113 Non-depository financing 114 Foreign banks in Australia 115 Financial asset investing 116 Financial asset investing 117 Insurance brokerage 118 Superannuation funds management services 119 Non-depository financing 110 Financial asset investing 110 Financial asset investing 111 Insurance brokerage 112 Fund management services 113 Health insurance 114 Foreign banks in Australia 115 Custody, trustee and stock exchange services 116 Financial asset investing 117 Insurance brokerage 118 Superannuation funds management 119 Non-depository financing 110 Fund management services 110 Investment banking and securities 110 brokerage 111 Insurance Insurance 112 Investment banking and investment 113 Insurance are decided assistance 114 Publication decided assistance 115 Financial planning and investment 116 Financial asset investing 117 Insurance brokerage 118 Durance brokerage 119 Non-depository financing 110 Fund management services 111 Investment banking and inve	41.50	Water supply		37.20	Horse and dog racing	59
facilities 35.70 102 Solid waste collection services 22.80 103 Waste remediation 32.20 23.80 104 Electricity transmission 44.70 104 Electricity transmission 59.80 105 Waste treatment and disposal 59.80 106 Hydro-electricity generation 60 Heavy industry and other non-	43.00			63.50	Gyms and fitness services	60
62 Nature reserves 22.80 103 Waste remediation 63 Zoological and botanical gardens 46.70 104 Electricity transmission 64 Amusement parks 59.80 105 Waste treatment and disposal services 65 Performing arts venues 39.90 services Construction 106 Hydro-electricity generation 66 Heavy industry and other nonbuilding construction 27.20 108 Wind and other electricity 67 House construction 8.50 generation 68 Commercial and industrial building construction Financial and insurance services 69 Site preparation services 6.00 110 Banking 70 Multi-unit apartment and townhouse construction 17.20 112 General insurance 71 Electrical services 8.80 113 Health insurance 71 Relactional building construction 18.20 115 Custody, trustee and stock exchange services 72 Road and bridge construction 18.20 115 Custody, trustee and stock exchange services 75 Land development and sub-div	40.60	Sewerage and waste services	l		Sports and physical recreation	61
63 Zoological and botanical gardens 46.70 104 Electricity transmission 64 Amusement parks 59.80 105 Waste treatment and disposal 65 Performing arts venues 39.90 services Construction 106 Hydro-electricity generation 66 Heavy industry and other nonbuilding construction 107 Liquid waste collection services 67 House construction 8.50 generation 68 Commercial and industrial building construction Financial and insurance services 69 Site preparation services 6.00 110 Banking 70 Multi-unit apartment and townhouse construction 17.20 112 General insurance 71 Electrical services 8.80 113 Health insurance 71 Electrical services 8.80 114 Foreign banks in Australia 72 Road and bridge construction 18.20 115 Custody, trustee and stock exchange services 74 Plumbing services 2.00 114 Foreign banks in Australia 75 Land development and sub-division 13.00 117 </td <td>34.10</td> <td></td> <td></td> <td>35.70</td> <td>=</td> <td></td>	34.10			35.70	=	
64 Amusement parks 59.80 105 Waste treatment and disposal services Construction 106 Heavy industry and other non-building construction 27.20 108 Wind and other electricity generation Financial and insurance services Commercial and industrial 50 uilding construction 9.50 109 Superannuation funds Building construction 9.50 109 Superannuation funds Building construction 9.50 110 Banking Multi-unit apartment and 111 Life insurance townhouse construction 17.20 112 General insurance Telectrical services 8.80 113 Health insurance Road and bridge construction 18.20 115 Custody, trustee and stock exchange services Plumbing services 2.00 117 Insurance brokerage Carpentry services 4.00 118 Superannuation funds management services Metal cladding, water-proofing and scaffolding services 3.00 120 Fund management services Air conditioning and heating services 8.00 120 Fund management services Painting and decorating services 9.80 121 Investment banking and securities brokerage Planting and decorating services 9.80 122 Financial planning and investment advice Planting and celling services 9.80 124 Mortgage brokers Tiling and carpeting services 6.00 Health care and social assistance Fire and security alarm installation 20.80 126 Building societies Roofing services 4.00 127 General hospitals Construction machinery and operator hire 18.20 129 Aged care residential services Billaging services 9.10 130 Personal welfare services	19.20	Waste remediation	3	22.80	Nature reserves	62
Construction	84.40	Electricity transmission	1	46.70	Zoological and botanical gardens	63
Construction 66 Heavy industry and other non-building construction 67 House construction 68 Commercial and industrial 69 Site preparation services 69 Site preparation services 60 Multi-unit apartment and 69 townhouse construction 69 Site preparation services 60 Multi-unit apartment and 60 townhouse construction 61 Electrical services 61 Electrical services 62 Road and bridge construction 63 Institutional building construction 64 Electrical services 65 Electrical services 66 Electrical services 67 Road and bridge construction 78 Institutional building construction 79 Land development and 69 Superannuation funds 70 Multi-unit apartment and 71 Electrical services 71 Electrical services 72 Road and bridge construction 73 Institutional building construction 74 Plumbing services 75 Land development and 76 Superannuation funds management 77 Metal cladding, water-proofing and 78 Superannuation funds management 79 Air conditioning and heating 79 Air conditioning and heating 79 Services 79 Air conditioning and heating 70 Painting and decorating services 71 Superannuation funds management services 72 Planting and decorating services 73 Structural steel erection services 74 Planting and celling services 75 Land development and 76 Carpentry services 77 Metal cladding, water-proofing and 78 Concreting services 79 Air conditioning and heating 70 Services 71 Superannuation funds management 72 Services 73 Structural steel erection services 74 Superannuation funds management 75 Services 76 Planting and decorating services 77 Superannuation funds management 78 Concreting services 79 Air conditioning and heating 70 Services 71 Superannuation funds management 72 Services 73 Services 74 Superannuation funds management 75 Superannuation funds management 76 Superannuation funds management 77 Superannuation funds management 78 Superannuation funds management 79 Superannuation funds management 70 Superannuation funds management 71 Superannuation funds management 71 Superannuation funds management 71 Superannuation funds management 72 Su		Waste treatment and disposal	5	59.80	Amusement parks	64
Construction 66 Heavy industry and other non-building construction 67 House construction 68 Commercial and industrial 69 Site preparation services 69 Site preparation services 60 Multi-unit apartment and 69 townhouse construction 69 Site preparation services 60 Multi-unit apartment and 60 townhouse construction 61 Electrical services 61 Electrical services 62 Road and bridge construction 63 Institutional building construction 64 Electrical services 65 Electrical services 66 Electrical services 67 Road and bridge construction 78 Institutional building construction 79 Land development and 69 Superannuation funds 70 Multi-unit apartment and 71 Electrical services 71 Electrical services 72 Road and bridge construction 73 Institutional building construction 74 Plumbing services 75 Land development and 76 Superannuation funds management 77 Metal cladding, water-proofing and 78 Superannuation funds management 79 Services 79 Air conditioning and heating 70 Services 70 Painting and decorating services 71 Superannuation funds management 72 Services 73 Structural steel erection services 74 Plumbing and celing services 75 Land development and 76 Carpentry services 77 Metal cladding, water-proofing and 78 Services 79 Air conditioning and heating 70 Services 70 Painting and decorating services 71 Services 72 Services 73 Structural steel erection services 74 Services 75 Land development and 76 Carpentry services 77 Metal cladding, water-proofing and 78 Concreting services 80 Painting and decorating services 80 Painting and celing services 81 Landscaping services 82 Plastering and celing services 83 Structural steel erection services 84 Tiling and carpeting services 85 Fire and security alarm installation 86 Roofing services 87 Bricklaying services 88 Construction machinery and 89 Glazing services 99 Glazing services 90 Glazing services 90 Pain development and services 91 Aged care residential services 91 Aged care resid	45.90	services		39.90	Performing arts venues	65
66Heavy industry and other non-building construction27.20108Wind and other electricity67House construction8.50generation68Commercial and industrial building construction9.50109Superannuation funds69Site preparation services6.00110Banking70Multi-unit apartment and townhouse construction17.20112General insurance71Electrical services8.80113Health insurance72Road and bridge construction18.20115Custody, trustee and stock exchange services73Institutional building construction18.20115Custody, trustee and stock exchange services74Plumbing services2.00services75Land development and sub-division13.00117Insurance brokerage76Carpentry services4.00118Superannuation funds management services77Metal cladding, water-proofing and scaffolding services4.00119Non-depository financing78Concreting services3.00120Fund management services80Painting and decorating services8.00120Fund management services81Landscaping services8.00122Financial planning and investment advice82Plastering and ceiling services9.80122Financial planning and investment advice83Structural steel erection services6.00124Mortgage brokers84Tiling and carpeting	88.00	Hydro-electricity generation	6		_	Cons
building construction 27.20	49.40				Heavy industry and other non-	66
67 House construction 68 Commercial and industrial		Wind and other electricity	3	27.20	•	
building construction 9.50 109 Superannuation funds Site preparation services 6.00 110 Banking Multi-unit apartment and townhouse construction 17.20 112 General insurance Electrical services 8.80 113 Health insurance Road and bridge construction 28.00 114 Foreign banks in Australia Institutional building construction 18.20 115 Custody, trustee and stock exchange services Plumbing services 2.00 services Carpentry services 4.00 118 Superannuation funds management services Metal cladding, water-proofing and scaffolding services 4.00 119 Non-depository financing Concreting services 4.00 119 Non-depository financing Concreting services 8.00 120 Fund management services Painting and decorating services 9.80 121 Investment banking and securities brokerage Painting and decorating services 9.80 122 Financial planning and investment advice Plastering and ceiling services 2.00 123 Money market dealers Structural steel erection services 6.00 124 Mortgage brokers Tiling and carpeting services 3.50 125 Credit unions Fire and security alarm installation 20.80 126 Building societies Roofing services 4.00 127 General hospitals Construction machinery and operator hire 18.20 129 Aged care residential services Glazing services 9.10 130 Personal welfare services	43.00	•			House construction	67
69 Site preparation services 70 Multi-unit apartment and townhouse construction 71 Electrical services 72 Road and bridge construction 73 Institutional building construction 74 Plumbing services 75 Land development and sub-division 76 Carpentry services 77 Metal cladding, water-proofing and scaffolding services 78 Air conditioning and heating services 88 Painting and decorating services 89 Plastering and carpeting services 80 Paicklaying services 81 Construction services 82 Construction services 84 Construction services 85 Glazing services 86 Construction services 86 Glazing services 87 Gonstruction services 88 Construction services 89 Glazing services 80 Painting and decorating services 80 Glazing services 80 Painting and carpeting services 80 Glazing services 90 Glazing services 90 Glazing services 91 Glazing services		ncial and insurance services	an]	Commercial and industrial	68
69 Site preparation services 70 Multi-unit apartment and townhouse construction 71 Electrical services 72 Road and bridge construction 73 Institutional building construction 74 Plumbing services 75 Land development and sub-division 76 Carpentry services 77 Metal cladding, water-proofing and scaffolding services 78 Air conditioning and heating services 88 Painting and decorating services 89 Plastering and carpeting services 80 Paicklaying services 81 Construction services 82 Construction services 84 Construction services 85 Glazing services 86 Construction services 86 Glazing services 87 Gonstruction services 88 Construction services 89 Glazing services 80 Painting and decorating services 80 Glazing services 80 Painting and carpeting services 80 Glazing services 90 Glazing services 90 Glazing services 91 Glazing services	15.30	Superannuation funds)	9.50	building construction	
70Multi-unit apartment and townhouse construction17.20112General insurance71Electrical services8.80113Health insurance72Road and bridge construction28.00114Foreign banks in Australia73Institutional building construction18.20115Custody, trustee and stock exchange74Plumbing services2.00services75Land development and sub-division13.00117Insurance brokerage76Carpentry services4.00118Superannuation funds management77Metal cladding, water-proofing and scaffolding services4.00119Non-depository financing78Concreting services4.00119Non-depository financing79Air conditioning and heating services121Investment banking and securities80Painting and decorating services9.80122Financial planning and investment81Landscaping services8.00122Financial planning and investment82Plastering and ceiling services6.00123Money market dealers83Structural steel erection services6.00124Mortgage brokers84Tiling and carpeting services3.50125Credit unions85Fire and security alarm installation20.80126Building societies86Roofing services4.00127General hospitals87Bricklaying services4.00127General h	93.50			6.00	-	69
townhouse construction 17.20 112 General insurance Read and bridge construction 28.00 114 Foreign banks in Australia Institutional building construction 18.20 115 Custody, trustee and stock exchange services Plumbing services 2.00 services Land development and sub-division 13.00 117 Insurance brokerage Carpentry services 4.00 118 Superannuation funds management services scaffolding services 4.00 119 Non-depository financing Concreting services 3.00 120 Fund management services Air conditioning and heating services 8.00 121 Investment banking and securities services Painting and decorating services 9.80 122 Financial planning and investment advice Plastering and ceiling services 6.00 124 Mortgage brokers Tiling and carpeting services 3.50 125 Credit unions Fire and security alarm installation 20.80 126 Building societies Roofing services 4.00 127 General hospitals Construction machinery and operator hire 18.20 129 Aged care residential services	60.20	Life insurance	l			70
72Road and bridge construction28.00114Foreign banks in Australia73Institutional building construction18.20115Custody, trustee and stock exchange74Plumbing services2.00services75Land development and sub-division13.00117Insurance brokerage76Carpentry services4.00118Superannuation funds management services77Metal cladding, water-proofing and scaffolding services4.00119Non-depository financing78Concreting services3.00120Fund management services79Air conditioning and heating services8.00brokerage80Painting and decorating services9.80122Financial planning and investment advice81Landscaping services8.00advice82Plastering and ceiling services2.00123Money market dealers83Structural steel erection services6.00124Mortgage brokers84Tiling and carpeting services3.50125Credit unions85Fire and security alarm installation20.80126Building societies86Roofing services4.00127General hospitals88Construction machinery and operator hire18.20129Aged care residential services89Glazing services9.10130Personal welfare services	56.10	General insurance	2	17.20	<u>*</u>	
73Institutional building construction18.20115Custody, trustee and stock exchange74Plumbing services2.00services75Land development and sub-division13.00117Insurance brokerage76Carpentry services4.00118Superannuation funds management services77Metal cladding, water-proofing and scaffolding services4.00119Non-depository financing78Concreting services3.00120Fund management services79Air conditioning and heating services121Investment banking and securities brokerage80Painting and decorating services9.80122Financial planning and investment advice81Landscaping services8.00advice82Plastering and ceiling services2.00123Money market dealers83Structural steel erection services6.00124Mortgage brokers84Tiling and carpeting services3.50125Credit unions85Fire and security alarm installation20.80126Building societies86Roofing services6.00Health care and social assistance87Bricklaying services4.00127General hospitals88Construction machinery and operator hire18.20129Aged care residential services89Glazing services9.10130Personal welfare services	72.40	Health insurance	3	8.80	Electrical services	71
73Institutional building construction18.20115Custody, trustee and stock exchange74Plumbing services2.00services75Land development and sub-division13.00117Insurance brokerage76Carpentry services4.00118Superannuation funds management services77Metal cladding, water-proofing and scaffolding services4.00119Non-depository financing78Concreting services3.00120Fund management services79Air conditioning and heating services121Investment banking and securities brokerage80Painting and decorating services9.80122Financial planning and investment advice81Landscaping services8.00advice82Plastering and ceiling services2.00123Money market dealers83Structural steel erection services6.00124Mortgage brokers84Tiling and carpeting services3.50125Credit unions85Fire and security alarm installation20.80126Building societies86Roofing services6.00Health care and social assistance87Bricklaying services4.00127General hospitals88Construction machinery and operator hire18.20129Aged care residential services89Glazing services9.10130Personal welfare services	35.30	Foreign banks in Australia	1	28.00	Road and bridge construction	72
74Plumbing services2.00services75Land development and sub-division13.00117Insurance brokerage76Carpentry services4.00118Superannuation funds management services77Metal cladding, water-proofing and scaffolding services4.00119Non-depository financing78Concreting services3.00120Fund management services79Air conditioning and heating services8.00brokerage80Painting and decorating services9.80122Financial planning and investment advice81Landscaping services8.00advice82Plastering and ceiling services2.00123Money market dealers83Structural steel erection services6.00124Mortgage brokers84Tiling and carpeting services3.50125Credit unions85Fire and security alarm installation20.80126Building societies86Roofing services6.00Health care and social assistance87Bricklaying services4.00127General hospitals88Construction machinery and operator hire18.20129Aged care residential services89Glazing services9.10130Personal welfare services		Custody, trustee and stock exchange	5	18.20	Institutional building construction	73
The financial asset investing sub-division 13.00 117 Insurance brokerage 76 Carpentry services 4.00 118 Superannuation funds management services scaffolding services 4.00 119 Non-depository financing 78 Concreting services 3.00 120 Fund management services 79 Air conditioning and heating 121 Investment banking and securities services 8.00 brokerage 80 Painting and decorating services 9.80 122 Financial planning and investment Landscaping services 8.00 advice 81 Landscaping services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 4.00 127 General hospitals 88 Construction machinery and 128 Community services operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services	25.00	•				74
sub-division 13.00 117 Insurance brokerage 76 Carpentry services 4.00 118 Superannuation funds management 77 Metal cladding, water-proofing and scaffolding services 4.00 119 Non-depository financing 78 Concreting services 3.00 120 Fund management services 79 Air conditioning and heating services 8.00 brokerage 80 Painting and decorating services 9.80 122 Financial planning and investment 81 Landscaping services 8.00 advice 82 Plastering and ceiling services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 4.00 127 General hospitals 88 Construction machinery and operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services	8.60	Financial asset investing	5	:		75
76 Carpentry services 77 Metal cladding, water-proofing and scaffolding services 78 Concreting services 79 Air conditioning and heating services 80 Painting and decorating services 81 Landscaping services 82 Plastering and ceiling services 83 Structural steel erection services 84 Tiling and carpeting services 85 Fire and security alarm installation 86 Roofing services 87 Bricklaying services 88 Construction machinery and operator hire 89 Glazing services 99 112 Superannuation funds management services 9 119 Non-depository financing 90 1120 Fund management services 91 121 Investment banking and securities 91 122 Financial planning and investment 91 advice 92 Pinancial planning and investment 93 advice 94 Money market dealers 95 Credit unions 96 Building societies 96 Building societies 96 Community services 97 Aged care residential services 98 Glazing services 99 10 130 Personal welfare services	79.80	Insurance brokerage	7	13.00		
77 Metal cladding, water-proofing and scaffolding services 4.00 119 Non-depository financing 78 Concreting services 3.00 120 Fund management services 79 Air conditioning and heating 121 Investment banking and securities services 8.00 brokerage 80 Painting and decorating services 9.80 122 Financial planning and investment 81 Landscaping services 8.00 advice 82 Plastering and ceiling services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 6.00 Health care and social assistance 87 Bricklaying services 4.00 127 General hospitals 88 Construction machinery and 128 Community services operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services					Carpentry services	76
78 Concreting services 3.00 120 Fund management services 79 Air conditioning and heating services 8.00 brokerage 80 Painting and decorating services 9.80 122 Financial planning and investment 81 Landscaping services 8.00 advice 82 Plastering and ceiling services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 6.00 Health care and social assistance 87 Bricklaying services 4.00 127 General hospitals 88 Construction machinery and 128 Community services 9 Glazing services 9.10 130 Personal welfare services	18.30				Metal cladding, water-proofing and	77
79 Air conditioning and heating services 8.00 brokerage 80 Painting and decorating services 9.80 122 Financial planning and investment 81 Landscaping services 8.00 advice 82 Plastering and ceiling services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 6.00 Health care and social assistance 87 Bricklaying services 4.00 127 General hospitals 88 Construction machinery and 128 Community services operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services	22.00	Non-depository financing)	4.00	scaffolding services	
79 Air conditioning and heating services 8.00 brokerage 80 Painting and decorating services 9.80 122 Financial planning and investment 81 Landscaping services 8.00 advice 82 Plastering and ceiling services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 6.00 Health care and social assistance 87 Bricklaying services 4.00 127 General hospitals 88 Construction machinery and 128 Community services operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services	65.60				Concreting services	78
services 8.00 brokerage 80 Painting and decorating services 9.80 122 Financial planning and investment 81 Landscaping services 8.00 advice 82 Plastering and ceiling services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 6.00 Health care and social assistance 87 Bricklaying services 4.00 127 General hospitals 88 Construction machinery and 128 Community services 9 Glazing services 9.10 130 Personal welfare services					Air conditioning and heating	79
81 Landscaping services 8.00 advice 82 Plastering and ceiling services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 6.00 Health care and social assistance 87 Bricklaying services 4.00 127 General hospitals 88 Construction machinery and operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services	32.40			8.00		
81 Landscaping services 8.00 advice 82 Plastering and ceiling services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 6.00 Health care and social assistance 87 Bricklaying services 4.00 127 General hospitals 88 Construction machinery and operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services		Financial planning and investment	2	9.80	Painting and decorating services	80
82 Plastering and ceiling services 2.00 123 Money market dealers 83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 6.00 Health care and social assistance 87 Bricklaying services 4.00 127 General hospitals 88 Construction machinery and 128 Community services 9 Glazing services 9.10 130 Personal welfare services	43.40					
83 Structural steel erection services 6.00 124 Mortgage brokers 84 Tiling and carpeting services 3.50 125 Credit unions 85 Fire and security alarm installation 20.80 126 Building societies 86 Roofing services 6.00 Health care and social assistance 87 Bricklaying services 4.00 127 General hospitals 88 Construction machinery and 128 Community services 9 Glazing services 9.10 130 Personal welfare services	72.10	Money market dealers	3	2.00		82
 85 Fire and security alarm installation 86 Roofing services 87 Bricklaying services 88 Construction machinery and operator hire 89 Glazing services 80 Description 80 Description 81 Description 82 Description 83 Description 84 Description 85 Description 86 Description 87 Description 88 Description 89 Description 80 Description 	50.80	Mortgage brokers	1	6.00		83
 Roofing services Bricklaying services Construction machinery and operator hire Glazing services Glazing services Health care and social assistance General hospitals Community services Aged care residential services Glazing services 130 Personal welfare services 	67.10	Credit unions	5	3.50	Tiling and carpeting services	84
 Roofing services Bricklaying services Construction machinery and operator hire Glazing services Bricklaying services Aged care residential services Glazing services 130 Personal welfare services 	88.80	Building societies	6	20.80	Fire and security alarm installation	85
88 Construction machinery and 128 Community services operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services						86
operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services	66.40	General hospitals	7	4.00	Bricklaying services	87
operator hire 18.20 129 Aged care residential services 89 Glazing services 9.10 130 Personal welfare services	6.70				• •	88
89 Glazing services 9.10 130 Personal welfare services	11.80	•		18.20		
e	8.20	e				89
70 Elevator instanation and 151 General practitioner medical		General practitioner medical	l		Elevator installation and	90
maintenance 71.70 services	9.50	_		71.70	maintenance	
Continued	Continued					

Table A1 Continued

Table A1 Continued

No.	Industry	Market share of the top four firms (%)	No.	Industry	Market share of the top four firms (%)
132	Specialist medical services	5.10		Iron smelting and steel	J (. ,
133	Child care services	20.00	100	manufacturing in Australia	45.40
	Dental services	9.90	169	Motor vehicle manufacturing	63.90
	Other health services	12.10		Printing in Australia	14.30
136		46.00		Pharmaceutical products	150
137		12.00		manufacturing	57.60
138		88.90	172	Aluminium smelting in Australia	67.10
139	Ambulance services	87.50		Poultry processing in Australia	67.80
140	Optometry services	45.90		Structural steel fabricating in	
141	Physiotherapy services	9.00		Australia	41.20
142	Chiropractic services	4.00	175	Chocolate and confectionery	
143	Psychiatric hospitals	68.50		manufacturing in Australia	48.80
Infor	mation media and telecommunicatio	ns	176	Butter and dairy product	
144	Telecommunications services in			manufacturing in Australia	53.50
	Australia	72.90	177	Alumina production in Australia	97.70
145	Wireless telecommunications		178	Fruit and vegetable processing in	
	carriers in Australia	97.80		Australia	30.70
146	Wired telecommunications		179	Ready-mixed concrete	
	network operation in Australia	87.00		manufacturing in Australia	70.80
147	Telecommunications resellers in		180	Wine production in Australia	39.60
	Australia	8.70	181	Tea, coffee and other food	
148	Free-to-air television broadcasting			manufacturing in Australia	27.20
	in Australia	67.30	182	Wooden structural component	
	Pay television in Australia	78.20		manufacturing in Australia	25.50
150	Internet service providers in		183	Fabricated metal product	
	Australia	89.60		manufacturing in Australia	16.40
151	Newspaper publishing in Australia	86.10	184	Aluminium door and window	
152				manufacturing in Australia	11.70
	in Australia	68.20	185	Mining and construction machinery	
153	Motion picture and video			manufacturing in Australia	42.60
	production in Australia	14.00	186	· ·	83.60
154	1 0	51.20		Beer manufacturing	89.90
155	Motion picture and video	46.20	188	Prepared animal and bird feed	60.40
150	distribution in Australia	46.30	100	manufacturing in Australia	69.40
156	Internet publishing and	72.60	189	Cured meat and smallgoods	47.00
157	broadcasting in Australia	73.60	100	manufacturing in Australia	47.80
157		69.10	190	Power automation products and	
158 159	Radio broadcasting in Australia Book publishing	65.90 30.30		other electrical equipment manufacturing in Australia	49.00
160	Libraries and archives in Australia	14.90	191	Motor vehicle parts and accessories	49.00
161		14.90	191	•	16.70
101	Data processing and web hosting services in Australia	37.20	102	manufacturing in Australia Aircraft manufacturing and repair	10.70
162	Data storage services in Australia	51.60	1/2	services in Australia	62.40
163	Music publishing and sound	31.00	193	Motor vehicle body and trailer	02.40
103	recording in Australia	57.60	173	manufacturing in Australia	23.10
164	Video post-production services in	27.00	194	Industrial gas manufacturing in	23.10
10.	Australia	34.60		Australia	47.10
Man	ufacturing	5	195	Artisanal bakery product	10
	Meat processing	52.20		manufacturing in Australia	21.40
	Petroleum refining and petroleum		196	Fertiliser manufacturing in	
	fuel manufacturing in Australia	90.60		Australia	69.90
167	Gold and other non-ferrous metal	/ - / -	197	Flour and grain mill product	
	processing in Australia	43.40		manufacturing in Australia	67.20
		Continued			Continued

Table A1 Continued

Table A1 Continued

		Market share of the top four	_		Market share of the top four
No.	Industry	firms (%)	No.	Industry	firms (%)
198	Medical and surgical equipment		226	Snack food manufacturing	53.50
	manufacturing in Australia	62.70	227	Prefabricated metal building	
199	Glass and glass product			manufacturing in Australia	24.80
	manufacturing in Australia	45.00	228	Sheet metal product manufacturing	
200	Pulp, paper and paperboard			in Australia	8.90
	manufacturing in Australia	64.40	229	Agricultural machinery	
201	Paint and coatings manufacturing			manufacturing in Australia	6.30
	in Australia	56.50	230	Household appliance	
202	Plastic injection-moulded product			manufacturing in Australia	40.00
	manufacturing in Australia	24.40	231	Timber resawing and dressing in	
203	Sugar manufacturing in Australia	78.50		Australia	25.50
204	Explosives manufacturing in		232	Industrial machinery	
	Australia	76.30		manufacturing in Australia	17.00
205	Shipbuilding	71.10	233	Milk and cream processing in	
206	Bread production in Australia	55.70		Australia	96.10
207	3		234	Cut and sewn textile product	
	manufacturing in Australia	30.20		manufacturing in Australia	13.60
	Cheese manufacturing in Australia	58.80	235	Electric cable and wire	
209	Cooking oil and margarine			manufacturing in Australia	61.20
	manufacturing in Australia	49.40	236	Soap and cleaning compound	
210	Railway equipment manufacturing			manufacturing in Australia	46.40
	and repair in Australia	75.60	237	Glass wool, stone and non-metallic	
211	Cereal, pasta and baking mix			mineral product manufacturing in	
	manufacturing in Australia	49.60		Australia	20.20
212	Basic inorganic chemical		238	Lubricants and other petroleum	
	manufacturing in Australia	42.80		product manufacturing in	
213	Corrugated paperboard container			Australia	72.90
	manufacturing in Australia	89.30	239	Metal drum, can and bin	
214	Metal coating and finishing in			manufacturing in Australia	62.40
	Australia	21.40	240	Basic organic chemical	
215	Structural metal product			manufacturing in Australia	13.50
	manufacturing in Australia	20.70	241	Plastic blow-moulded product	
216	Copper, silver, lead and zinc			manufacturing in Australia	79.70
	smelting and refining in Australia	90.00	242	Cake and pastry manufacturing in	
217	Cement and lime manufacturing in			Australia	31.20
	Australia	78.80	243	Communication equipment	
218	Concrete product manufacturing in			manufacturing in Australia	16.00
	Australia	67.20	244	Audio visual electronic equipment	
219	Conveyor and crane manufacturing			manufacturing in Australia	14.40
	in Australia	31.70	245	Fabricated wood manufacturing in	
220	Jewellery manufacturing in			Australia	54.60
	Australia	14.40	246	Heating, cooling and ventilation	
221	Plastic bag and film manufacturing			equipment manufacturing in	
	in Australia	40.30	2.45	Australia	34.60
222	Measurement and other scientific		247	Tailoring and clothing accessories	
	equipment manufacturing in			manufacturing in Australia	16.00
222	Australia	23.30	248	Pump and compressor	50.00
223		10.00	0.40	manufacturing in Australia	53.80
22 :	seat manufacturing in Australia	19.00	249	Seafood processing in Australia	32.20
224	Sanitary paper product	70.60	250	Ice cream manufacturing in	77.20
225	manufacturing in Australia	79.60		Australia	77.20
225	Plaster product manufacturing in	(2.00	251	Spring and wire product	60.20
	Australia	62.90		manufacturing in Australia	60.30

Table A1 Continued

Table A1 Continued

No.	Industry	Market share of the top four firms (%)	No.	Industry	Market share of the top four firms (%)
	•	jimis (70)		•	
252	Copper tubes and wire	50.10	281	Iron and steel forging in Australia	66.40
252	manufacturing in Australia	50.10	282	Plastic foam product manufacturing	41.00
233	Boatbuilding and repair services in	15.60	202	in Australia	41.90
254	Australia	15.60	283	Spirit manufacturing in Australia	61.70
234	Pesticide manufacturing in Australia	99.90	284	2	73.30
255		99.90	263	Veterinary pharmaceutical	96 10
233	Aluminium rolling, drawing and	50.20	206	manufacturing in Australia Leather and leather substitute product	86.10
256	extruding in Australia	30.20	200	*	71.50
230	Machine tool and parts manufacturing in Australia	22.00	207	manufacturing in Australia	/1.30
257	_	32.90 24.30	287	Metal furniture manufacturing in Australia	12.00
		24.30	200		12.00
238	Milk powder manufacturing in	00.70	288	1	76.60
250	Australia	88.70	200	in Australia	76.60
259	Plastic flooring and other polymer	16.00	289	Footwear manufacturing in	20.20
260	product manufacturing in Australia	16.90	200	Australia	30.30
260	Clay brick manufacturing in	06.10	290	Synthetic and natural textile	24.40
261	Australia	96.10	201	manufacturing in Australia	24.40
261	Boiler and tank manufacturing in		291	Reproduction of recorded media in	
	Australia	18.80		Australia	43.30
262	Cosmetics, perfume and toiletries		292	Ceramic product manufacturing in	
	manufacturing in Australia	50.30		Australia	23.50
263	Steel pipe and tube manufacturing		293	Women's and girls' wear	
	in Australia	63.40		manufacturing in Australia	17.20
264	Food processing machinery		294	Gaming and vending machines	
	manufacturing in Australia	25.00		manufacturing in Australia	78.50
265	Natural rubber product		295	Photographic and optical good	
	manufacturing in Australia	7.00		manufacturing in Australia	24.50
	Biscuit manufacturing in Australia	86.80	296	Toy and sporting good	
267	Computer and electronic office			manufacturing in Australia	9.90
	equipment manufacturing in		297	Wicker and fibreglass furniture	
	Australia	12.40		manufacturing in Australia	7.00
268	Paper stationery manufacturing in		298	1 ,	
	Australia	65.20		clothing manufacturing in	
	Fruit juice manufacturing	75.70		Australia	7.00
270	Electric lighting equipment		299	Prefabricated wooden building	
	manufacturing in Australia	32.10		manufacturing in Australia	9.60
271	Metal roof and guttering		300	Printing support services in	
	manufacturing in Australia	85.60		Australia	29.30
272	Paper bag and other paper product		301	Rope, cordage and twine	
	manufacturing in Australia	53.10		manufacturing in Australia	6.00
273	Fibreglass product manufacturing		302	Men's and boys' wear	
	in Australia	4.40		manufacturing in Australia	6.40
274	Wood chipping in Australia	73.50	303	Wet baby food	95.00
275	Adhesive manufacturing in Australia	42.30	304	Knitted product manufacturing in	
276	Pallets and other wood product			Australia	5.00
	manufacturing in Australia	17.00	305	Non-ferrous metal casting in	
277				Australia	12.00
	manufacturing in Australia	58.90	306	Dry baby food	96.00
278	Bottled water manufacturing	75.80	Mini	•	
279	_		307	Iron ore mining	83.90
	manufacturing in Australia	28.40		Coal mining	40.20
280	Nut, bolt, screw and rivet		309	· ·	49.10
	manufacturing in Australia	38.80	310	•	47.70
		Continued			Continued

Table A1 Continued

Table A1 Continued

3.7		Market share of the top four	3.7		Market share of the top four
No.	Industry	firms (%)	No.	Industry	firms (%)
311	Mining support services in	7.70		essional, scientific and technical serv	ices
212	Australia	7.70	342	Computer system design services	16.20
	Copper ore mining in Australia	65.50	2.42	in Australia	16.30
313	Silver, lead and zinc ore mining in	90.50		Engineering consulting in Australia	15.20
214	Australia	80.50		Legal services in Australia Accounting services in Australia	8.60
	Petroleum exploration in Australia	17.00		Dental services	24.80 9.90
313	Rock, limestone and clay mining in Australia	31.40		Management consulting in	9.90
316	Nickel ore mining in Australia	77.10	347	Australia	16.40
	Bauxite mining	97.90	348	Architectural services in Australia	3.60
	Manganese and other mineral	97.90	349		3.00
310	mining in Australia	76.20	347	Australia	37.60
310	Mineral sand mining in Australia	72.10	350	Environmental science services in	37.00
	Salt and other mineral mining in	72.10	330	Australia	31.80
320	Australia	47.70	351	Specialised design services in	31.60
321	Mineral exploration in Australia	16.00	331	Australia	2.00
	Brown coal mining in Australia	98.60	352	Surveying and mapping services in	2.00
	Uranium mining in Australia	100.00	332	Australia	10.60
	Gravel and sand quarrying in	100.00	353	Veterinary services in Australia	13.00
324	Australia	59.00		Advertising agencies	32.20
325	Diamond and gemstone mining in	39.00		Advertising agencies in Australia	32.20
323	Australia	89.40		Market research and statistical	32.20
Derce	onal services	02.40	330	services in Australia	27.80
	Motor vehicle engine and parts repair		357	Media buying agencies in Australia	31.60
320	and maintenance in Australia	8.00		Public relations services in	31.00
327	Community associations and other	0.00	330	Australia	20.20
321	interest groups in Australia	4.00	Publ	ic administration and support service	
328	Motor vehicle body, paint and	4.00		Police and firefighting services in	3
320	interior repair in Australia	9.00	337	Australia	60.10
320	Heavy machinery repair and	9.00	360	Investigation and security services	00.10
32)	maintenance in Australia	10.00	300	in Australia	24.50
330	Hairdressing and beauty services in	10.00	361	Correctional and detention services	24.50
330	Australia	7.10	301	in Australia	84.00
331	Laundry and dry-cleaning services	7.10	Rent	al, hiring and real estate services	04.00
331	in Australia	30.90		Residential property operators in	
332	Motor vehicle electrical services in	30.70	302	Australia	4.30
332	Australia	4.00	363	Office property operators in	4.50
333	Computer and electronic	4.00	303	Australia	7.10
333	equipment repair in Australia	5.00	364	Retail property operators in	7.10
334	Parking services in Australia	52.30	304	Australia	20.20
	Babysitting and other personal	32.30	365	Real estate services in Australia	10.70
333	services in Australia	5.00		Industrial and other property	10.70
336	Domestic appliance repair and	5.00	300	operators in Australia	10.90
330	maintenance in Australia	4.00	367	Machinery and scaffolding rental	10.50
337	Funeral directors, crematoria and	4.00	307	in Australia	27.00
331	cemeteries in Australia	44.80	368	Furniture, appliance and equipment	27.00
338	Weight loss services in Australia	38.00	200	rental in Australia	13.40
	Photographic film processing in	50.00	369	Passenger car rental and hiring in	13.40
	Australia	25.00	307	Australia	29.30
340	Clothing and footwear repair in	23.00	370		27.50
210	Australia	34.70	370	vehicle rental in Australia	38.40
341		5 70	371	Video and DVD hire outlets in	50.40
1	services in Australia	8.00	5/1	Australia	67.70
		0.00		3000 0000	37.70

Table A1 Continued

Table A1 Continued

Industry	Market share of the top four firms (%)	No.	Industry	Market share of the top four firms (%)
maustry	jirms (%)			jims (%)
1 4 11 1 A 4 11	10.20	407	Video game and recorded music	0.4.40
ner goods retail in Australia	19.30	400	retailing in Australia	84.40
narkets and grocery stores	90.60	408	Personal accessory retailing in	20.60
vehicle dealers	8.80	400	Australia	39.60
tailing in Australia	71.20		Toy and game retailing in Australia	48.90
ment stores in Australia	94.30	410	Stationery goods retailing in	
ig retailing	14.70		Australia	65.60
ng retailing in Australia	13.20	411	Bread and cake retailing in	
are and building supplies			Australia	31.40
ling in Australia	52.80		Flower retailing in Australia	4.00
ncies	58.50	413	Photographic equipment retailing	
tic appliance retailing in			in Australia	48.00
ralia	46.70		sport, postal and warehousing	
retailing	78.30		Road freight transport in Australia	16.90
re retailing in Australia	35.60		International airlines	61.00
neat, fish and poultry		416	Domestic airlines	90.50
ling in Australia	7.40	417	Rail passenger transport in	
onists and specialised			Australia	92.70
ery retailing in Australia	25.50	418	Rail, air and sea freight forwarding	
ter and software retailing in			in Australia	41.10
ralia	39.60	419	Rail freight transport	72.40
vehicle parts retailing in		420	Rail freight transport in Australia	72.40
ralia	36.40	421	Postal services in Australia	97.50
etailing in Australia	46.60	422	Urban bus and tramway transport	
and camping equipment			in Australia	32.00
ling in Australia	36.90	423	Taxi and limousine transport in	
nience stores in Australia	22.90		Australia	7.00
nd vegetable retailing in		424	General warehousing and cold	
ralia	4.00		storage in Australia	34.10
aper and book retailing in		425	Airport operations in Australia	72.20
ralia	24.60		Courier pick-up and delivery	
tic and toiletry retailing in			services in Australia	22.30
ralia	13.40	427	Water transport terminals in	
and jewellery retailing in			Australia	58.20
ralia	46.90	428	Port operators in Australia	58.70
overings retailing in	.0.,0		Grain storage in Australia	49.10
ralia	45.00		Road freight forwarding in	15.10
ear retailing	37.20	150	Australia	9.00
e and used goods retailing in	37.20	431		93.90
ralia	26.30		Pipeline transport in Australia	70.60
suppliers retailing	8.50		Stevedoring services in Australia	87.10
supplies retailing in	8.50	433	Navigation, towage and services to	67.10
ralia	8.50	7.77	water transport in Australia	79.40
ester retailing in Australia	48.90	435	Removalists in Australia	24.80
	46.90			24.60
cal and lighting stores in	17.00	430	Long distance bus transport in	15.60
ralia	17.80	427	Australia	15.60
and caravan dealers in	6.00	437	Water freight transport in Australia	92.70
ralia	6.00	438	Scenic and sightseeing transport in	14.00
ycle dealers	8.50	420	Australia	14.80
ware retailing in Australia	9.00	439	Water passenger transport in	25.20
equipment retailing in	44.0		Australia	35.30
ralia		440		
ree stores in Australia	57.00		Australia	15.40
rali	a	a 11.10 stores in Australia 57.00	a 11.10 440	a 11.10 440 Non-scheduled air transport in Stores in Australia 57.00 Australia

Table A1 Continued

No.	To disease	Market share of the top four
	Industry	firms (%)
w no 441	lesale trade	
	Motor vehicle wholesaling in Australia	29.10
442	Petroleum product wholesaling in Australia	93.60
443	Telecommunications and other electrical goods wholesaling in Australia	17.70
444	Metal and mineral wholesaling in Australia	31.10
445	General line grocery wholesaling	
446	in Australia Computer and computer peripheral wholesaling in Australia	64.40 39.30
447	Farm and construction machinery	
448	wholesaling in Australia Soft drink and pre-packaged food	12.00
449	wholesaling in Australia Cereal grain wholesaling in	4.00
450	Australia Medical and scientific equipment	55.80
	wholesaling in Australia	9.00
451	Hardware wholesaling in Australia	30.00
452	Livestock and other agricultural supplies wholesaling in Australia	21.20
453	Meat, poultry and smallgoods wholesaling in Australia	7.00
454	Industrial and agricultural chemical product wholesaling in Australia	18.30
455	Pharmaceuticals wholesaling in Australia	77.90
456	Motor vehicle new parts wholesaling in Australia	14.30
457	Fruit and vegetable wholesaling in Australia	7.00
458	Mining and industrial machinery	
459	wholesaling in Australia	30.80
460	Household appliance wholesaling Household appliance wholesaling in Australia	23.80
161		23.80
461 462	Clothing wholesaling in Australia Cosmetics and toiletry wholesaling	8.50
463	in Australia Paper product wholesaling in	20.20
464	Australia Commercial vehicle wholesaling in	19.00
465	Australia Plumbing goods wholesaling in	50.90
	Australia	37.90
466	Liquor wholesaling	77.00
467	Liquor wholesaling in Australia	77.00
468	Timber wholesaling Timber wholesaling in Australia	27.70
469	Timoer wholesaling in Australia	21.50

Table A1 Continued

No.	Industry	Market share of the top four firms (%)
470	Furniture and floor covering	
	wholesaling in Australia	9.10
471	Fish and seafood wholesaling in	
	Australia	5.70
472	Toy and sporting goods	
	wholesaling in Australia	11.10
473	Dairy produce wholesaling in	
	Australia	4.00
474	Wool wholesaling in Australia	34.10
475	Tobacco product wholesaling in	
	Australia	87.10
476	Textile product wholesaling in	
	Australia	8.30
477	Kitchen and diningware wholesaling	
	in Australia	6.40
478	Footwear wholesaling in Australia	18.20
479	Jewellery and watch wholesaling	
	in Australia	17.80
480	Book and magazine wholesaling in	
	Australia	56.90
481	Motor vehicle dismantling and	
	used parts wholesaling in	
	Australia	9.00

Endnotes

- 1. For example, in 2015, the antitrust division of the U.S. Department of Justice brought criminal charges against 66 individuals and 20 firms and collected a total of US\$3.6 billion in criminal fines and penalties (Gidley et al. 2016).
- 2. These are accommodation and food services; administrative and support services; agriculture, forestry and fishing; arts and recreation services; construction; education and training; electricity, gas, water and waste services; financial and insurance services; health care and social assistance; information media and telecommunications; manufacturing; mining; personal services; professional, scientific and technical services; public administration and support services; rental, hiring and real estate services; retail trade; transport, postal and warehousing; and wholesale trade.
- 3. Concentration is defined as: 'assets of three largest commercial banks as a share of total commercial banking assets. Total assets include total earning assets, cash and due from banks, foreclosed real estate, fixed assets, goodwill, other intangibles, current tax assets, deferred tax assets, discontinued operations and other assets'.
- 4. The gross value added of individual firms to the Australian economy is obtained by identifying the largest firms in Australia based on revenues, calculating each firm's share of a sector's total revenues and multiplying

- this share by the ABS's calculation of that sector's gross value added contribution to gross domestic product (GDP).
- 5. These figures are obtained by calculating the share of total market capitalisation of firms listed on the ASX held by the largest 10, 50 and 100 firms.
- 6. Similarly, World Bank experts have recently argued that cartels in Latin America harm the poorest by raising prices of milk, domestic gas, sugar, tortillas and passenger transport (see Licetti and Goodwin 2015).
- 7. This perspective was summed up by Justice Scalia in *Verizon Communications Inc. v Law Offices of Curtis V. Trinko, LLP* (2004) 540 U.S. 398: 'The mere possession of monopoly power, and the concomitant charging of monopoly prices, is not only not unlawful; it is an important element of the free-market system. The opportunity to charge monopoly prices—at least for a short period—is what attracts "business acumen" in the first place; it induces risk taking that produces innovation and economic growth. To safeguard the incentive to innovate, the possession of monopoly power will not be found unlawful unless it is accompanied by an element of anticompetitive conduct.'
- 8. At present, the ACCC's compliance and enforcement policy lists 12 factors that will be taken into account when considering whether to give priority to a matter. One of these is if the matter relates to 'conduct detrimentally affecting disadvantaged or vulnerable consumer groups'. However, the ACCC's compliance and enforcement policy is simply an ACCC policy document, which could readily be changed without reference to the Parliament. On the ACCC's current enforcement policy, including the way in which it prioritises Indigenous consumers, see Sims (2016).

References

- Atkinson, A. 2015, *Inequality: What Can Be Done*?, Harvard University Press, Cambridge, Massachusetts.
- Atkinson, A. and Leigh, A. 2007, 'The distribution of top incomes in Australia', *Economic Record*, vol. 83, pp. 247–61.
- Australian Bureau of Statistics 2014, *Employee Earnings and Hours*, Cat. no. 6306.0, ABS, Canberra.
- Australian Bureau of Statistics 2015, *Counts of Australian Businesses*, Cat. no. 8165.0, ABS, Canberra.
- Australian Bureau of Statistics 2016, *Australian System of National Accounts*, Cat. no. 5204.0, ABS, Canberra.
- Australian Competition and Consumer Commission 2008a, 'Public competition assessment, Westpac Banking Corporation –

- Proposed acquisition of St George Bank Limited', ACCC, Canberra, 13 August.
- Australian Competition and Consumer Commission 2008b, Report on the ACCC Inquiry into the Competitiveness of Retail Prices for Standard Groceries, ACCC, Canberra.
- Australian Competition and Consumer Commission 2010, 'Statement of issues, Asahi Holdings (Australia) Pty Ltd Proposed acquisition of P&N Beverages (Australia) Pty Ltd', ACCC, Canberra, 2 December.
- Australian Competition and Consumer Commission 2011, 'Public competition assessment, proposed merger between Teys Bros (Holdings) Pty Limited and Cargill Beef Australia', ACCC, Canberra, 21 September.
- Australian Competition and Consumer Commission 2013, 'Statement of issues, Virgin Australia Proposed acquisition of 60% of Tiger Airways Australia', ACCC, Canberra, 7 February.
- Australian Competition and Consumer Commission 2015, 'Public competition assessment, TPG Telecom Limited Proposed acquisition of iiNet Limited', ACCC, Canberra, 22 December.
- Australian Competition and Consumer Commission 2016, 'Cartels case studies and legal cases, Visy and Amcor', ACCC, Canberra, viewed July 2016, https://www.accc.gov.au/business/anti-competitive-behaviour/cartels/cartels-case-studies-legal-cases.
- Baker, J. and Salop, S. 2015, 'Antitrust, competition policy, and inequality', *Georgetown Law Journal*, vol. 104, pp. 1–28.
- Beaton-Wells, C. and Brydges, N. 2008, 'The cardboard box cartel case: Was all the fuss warranted?', *Australian Business Law Review*, vol. 36, pp. 6–28.
- Begazo, T. and Nyman, S. 2016, 'Competition and poverty. How competition affects the distribution of welfare', Viewpoint, Note no. 350, World Bank Group, Washington, DC.
- Burkhauser, R., Hahn, M. and Wilkins, R. 2015, 'Measuring top incomes using tax record data: A cautionary tale from Australia', *Journal of Economic Inequality*, vol. 13, pp. 181–205.

- Comanor, W. and Smiley, R. 1975, 'Monopoly and the distribution of wealth', *Quarterly Journal of Economics*, vol. 89, pp. 177–94.
- Council of Economic Advisors 2016, 'Benefits of competition and indicators of market power', Council of Economic Advisers Issue Brief, Washington, DC, April.
- Creedy, J. and Dixon, R. 1998, 'The relative burden of monopoly on households with different incomes', *Economica*, vol. 65, pp. 285–93.
- Creedy, J. and Dixon, R. 1999, 'The distributional effects of monopoly', *Australian Economic Papers*, vol. 38, pp. 223–37.
- Dayen, D. 2015, 'Bring back antitrust', *American Prospect*, vol. 26, no. 4, pp. 46–53.
- Dutt, A. K. 1984, 'Stagnation, income distribution and monopoly power', *Cambridge Journal of Economics*, vol. 8, pp. 25–40.
- The Economist 2016, 'Too much of a good thing', 26 March.
- Evans, S. 2015, 'ACCC chairman Rod Sims says Woolworths has fat margins as suppliers fear profits shrinkage', *Australian Financial Review*, 9 March, viewed July 2016, http://www.afr.com/business/retail/fmcg/acccchairman-rod-sims-says-woolworths-hasfat-margins-as-suppliers-fear-profits-shrinkage-20150306-13xekz.
- Finkelstein, R. 2012, Report of the Independent Inquiry into the Media and Media Regulation, Department of Broadband, Communications and the Digital Economy, Canberra.
- Frijters, P. and Foster, G. 2015, 'Rising inequality: A benign outgrowth of markets, or a symptom of cancerous political favours?', *Australian Economic Review*, vol. 48, pp. 67–75.
- Gidley, J. M., Toto, M., Pace, J., Chung, J. and Abrams, H. 2016, *Cartels and Other Alleged Illegal Agreements: White & Case's Expert View*, White & Case, London.
- Hoy, T. 2014, 'Zacpac makes \$25 million Qld expansion', *ProPrint*, 28 October, viewed July 2016, http://www.proprint.com.au/News/389106,zacpac-makes-25m-qld-expansion.aspx.
- IBISWorld 2016, IBISWorld Industry Research Reports 2016, IBISWorld, https://www.ibisworld.com.au/industry/home.aspx>.

- Infrastructure Australia 2015, 'Population estimates and projections', Australian Infrastructure Audit Background Paper, Infrastructure Australia, Canberra.
- Institute for Mergers, Acquisitions and Alliances 2015, 'M&A statistics Number and value and largest M&A transactions by region', viewed July 2016, https://imaa-institute.org/statistics-mergers-acquisitions/>.
- Katic, P. and Leigh, A. 2016, 'Top wealth shares in Australia 1915–2012', Review of Income and Wealth, vol. 62, pp. 209–22.
- Krugman, P. 2016, 'Robber baron recessions', *New York Times*, 18 April, p. A21.
- Leigh, A. 2013, *Battlers and Billionaires: The Story of Inequality in Australia*, Black Inc., Melbourne.
- Leigh, A. 2016, 'Markets, monopolies and moguls: The relationship between inequality and competition', John Freebairn Lecture in Public Policy, University of Melbourne, 19 May.
- Licetti, M. and Goodwin, T. 2015, 'Bad news for cartels, good news for the poor in Latin America', *World Bank Blog*, 23 October, viewed July 2016, http://blogs.worldbank.org/psd/bad-news-cartels-good-news-poor-latin-america-0.
- Maurice Blackburn Lawyers 2011, 'Cartel victims to get \$95m plus costs from Amcor and Visy', Maurice Blackburn Lawyers, 10 March.
- Melbourne Institute of Applied Economic and Social Research, University of Melbourne 2014, 'Household, Income and Labour Dynamics in Australia Survey, 2014 wave', Melbourne Institute of Applied Economic and Social Research, University of Melbourne.
- Obel, M. 2009, 'Economic indicator: Look inside the cardboard box', *Tampa Bay Times*,
 7 April, viewed July 2016, http://www.tampabay.com/news/business/economic-indicator-look-inside-the-cardboard-box/990416.
- Piketty, T. 2014, *Capital in the Twenty-First Century*, Harvard University Press, Cambridge, Massachusetts.
- Siegfried, J. and Round, D. 1994, 'How did the wealthiest Australians get so rich?', *Review of Income and Wealth*, vol. 40, pp. 191–204.

- Sims, R. 2013, 'Thoughts on market concentration issues', speech at Australian Food and Grocery Council Industry Leaders Forum, Canberra, 30 October.
- Sims, R. 2016, 'ACCC compliance and enforcement priorities for 2016', speech at Committee for Economic Development of Australia, Sydney, 23 February.
- Stensholt, J. 2012, 'Portrait of rich change: Ageing fortunes', *Australian Financial Review*, 26–27 May, pp. 50–1.
- Summers, L. 2016a, 'The age of secular stagnation', *Foreign Affairs*, March/April, pp. 2–9.
- Summers, L. 2016b, 'Corporate profits are near record highs. Here's why that's a problem', *Washington Post Wonkblog*, 30 March, viewed July 2016, https://www.washingtonpost.com/news/wonk/wp/2016/03/30/larry-summers-corporate-profits-are-near-record-highs-heres-why-thats-a-problem/.

- Team, T. 2015, 'A comparative look at the valuation of Amazon, Alibaba and eBay', Forbes, 9 October, viewed July 2016, http://www.forbes.com/sites/greatspeculations/2015/10/09/a-comparative-look-at-the-valuation-of-amazon-alibaba-and-ebay/#2fa64dcc747e.
- Whalley, J. 2016, 'Debt threat to big four's bottom line', *Daily Telegraph*, 15 April, p. 76.
- Wilkins, R. 2015, 'Measuring income inequality in Australia', *Australian Economic Review*, vol. 48, pp. 93–102.
- World Bank 2013, 'Global Financial Development Database: Bank Concentration', World Bank, Washington, DC.
- World Economic Forum 2015, *The Global Competitiveness Report 2015–2016*, World Economic Forum, Geneva.
- Zacpac 2016, 'Zacpac packaging solutions and suppliers', Zacpac Australasia, Sydney.