

# **Fix it or Fail: Why we must cut company tax now**

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### Policy Monograph

PM114 Sinclair Davidson, *The Faulty Arguments Behind Australia's Corporate Tax* (2008).

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## Executive Summary

- Australia needs to cut company tax to 25% to address Australia's poor investment, wages, income and productivity performance.
  - Business investment is currently at recessionary levels despite the economy being nowhere near a recession.
- The boost to the economy is supported by Treasury modelling and substantial international evidence.
- Australia's investment performance is hampered by our uncompetitive company tax system, with our company tax rate above OECD, regional and global averages, and not declining despite cuts in many other countries since 2001.
- The tax to GDP ratio, the tax to profit ratio, and company tax as a share of total revenue are all greatly above OECD averages, including after adjustment for imputation (even though this adjustment is largely unwarranted).
- The benefits of the company tax cut are likely underestimated, because the modelling assumes Australian investors are unaffected by company tax, when in fact the average Australian shareholder probably feels at least one third of the impact of company tax.
- Australia is becoming increasingly reliant on a small number of corporate taxpayers, so the budget is becoming much more exposed to the fortunes of these individual companies.
  - The short run benefit of the tax cut is concentrated on a small number of businesses because the tax revenue is also concentrated.
- The tax cut should not be abandoned just because foreigners (including the US Treasury) benefit. We should not sacrifice an advantage simply because foreigners also gain; this would be self-destructive xenophobia.
- In the longer term, neither big business nor foreigners obtain a big benefit from the tax cut: most of the benefit instead goes to workers.
- The company tax is similar to other import tariffs. It should be cut similarly to Australia's previous tariff reforms, and will provide equivalent (or greater) economic benefits.
- The budget impact of the tax cut is small and can be completely funded by other measures in the recent budget. If the tax cut is abandoned, the tax burden will likely go above previous record highs.
- The tax cut is an investment in the future, just like education and infrastructure; and all investment policies should be subject to detailed analysis of costs and benefits similar to the tax cut policy.
- Cancelling the tax cut because of supposed tax avoidance would penalise the companies who pay the most tax, and won't affect the biggest tax avoiders who pay no tax. It will even encourage tax avoidance to grow.
  - Taxpaying companies are in no way responsible for other companies that don't pay tax. Collective responsibility for the 'sins' of others is antithetical to good public policy.
- The greatest benefit comes from cutting tax on all business, rather than cutting the taxes on small business only.

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Naturally, any errors or omissions remain my responsibility.





# 1 Introduction

The Australian government plans to cut the company tax rate from its current level of 30% to 25% over the next 10 years (a lower rate currently applies to small business).<sup>1</sup> Company tax raised \$64.7 billion dollars in 2015–16, or 3.9% of Australia’s GDP, and revenue is forecast to grow quickly to 4.6% of GDP in 2019–20.<sup>2</sup> This is well above the historical average of 3.6%.<sup>3</sup> This growth in company tax revenue is a major contributor to closing the budget deficit, which is forecast to fall from 2.4% of GDP to 0.3% over the coming four years. Company tax contributes almost one third of this reduction in the deficit, similar to the contribution from personal tax (largely due to bracket creep<sup>4</sup>), so these two taxes alone provide well over half the budget repair in the next four years (see Figure 1).

By contrast, all the reductions in government spending combined contribute only a quarter of the budget repair during that period.<sup>5</sup> The heavy lifting on budget repair is being provided by increases in two taxes: company and personal. The contribution to budget repair is shown in Figure 1, compared with the estimated costs of the company tax cut — the gross cost and the net cost when

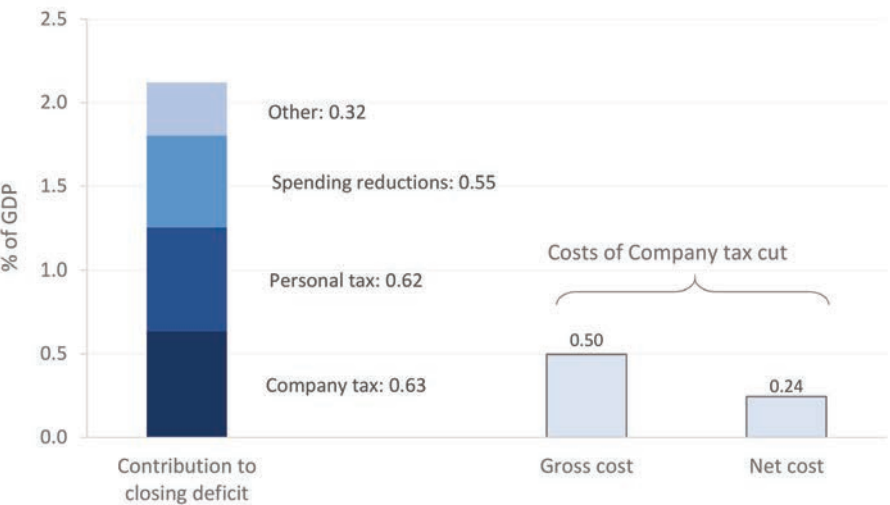
the dynamic benefits of the tax cut are factored in, as discussed in Section 5.1.

Figure 1 shows that the increased tax burden on companies in the next four years is more than the gross cost of the tax cut, and substantially more than the net cost. So the cost of the tax cut could be more than fully funded by the higher tax impost on companies over this four year period. Similarly, the total burden on companies will still be higher than today, even with the tax cut.

This growing company tax burden contrasts with the state of the economy, which is showing some weaknesses and facing substantial risks — as discussed later in this paper. Australia’s company tax system is not well placed to address these risks. The tax rate was 49% in the 1980s, and was cut several times since then to reach 30% in 2001–02,<sup>7</sup> but has not changed since then.

The uncompetitive nature of Australia’s company tax system is examined in this paper, along with the benefits of the tax cut; and responses to some of the arguments presented against the policy.

**Figure 1: Contributions to closing budget deficit over next four years, compared with cost of company tax cut**



**Source:** 2016–17 Budget, Independent Economics (2016) & Kouparitsas et al (2016).<sup>6</sup>The deficit reduction (totalling 2.1% of GDP) relates to the period 2015–16 to 2019–20. “Other” is made up of changes in other taxes and changes in Future Fund earnings.





## 2 Australia's company tax system is uncompetitive

Australia's company tax system imposes a much larger burden than other comparable countries, based on various measures considered in this section. The comparisons are largely with the OECD — which covers most but not all developed countries — and relate to the corporate tax levied by all levels of government except where indicated. Details of the data and calculations are in Appendix B. Further discussion of issues with international tax comparisons can be found in the related CIS publication, *The case against tax increases in Australia: the growing burden*.<sup>8</sup>

### 2.1 Headline tax rate

The simplest comparison between countries is of the headline corporate tax rate at the national level. The Australian company tax rate of 30% is above the unweighted OECD average of 22.8% and the OECD weighted average of 27.3%.<sup>9</sup> However, these comparisons do not account for the relationship between country size and tax rate: smaller economies tend to have lower company tax rates than larger economies (see Figure 2). This means Australia should be comparing itself to economies that are closer to it in size.

Smaller countries tend to have lower tax rates because foreign investment into these countries is more affected by tax, they have more economic activity that is internationally mobile (while businesses in larger economies are more domestically focussed), and larger

countries have (slightly) more control over the global price of capital.<sup>10</sup>

A regression of OECD corporate tax rates in 2015 on economy size, shown in Figure 2, indicates Australia's tax rate is well above what would be expected for an economy of our size. In fact, a rate of between 24.5% and 24.8% would be called for on this analysis (depending on whether the US is included). These figures relate to the combined tax rate of all levels of government; if the national tax rate alone is used, the ideal rate for Australia falls to 22.8%.<sup>11</sup>

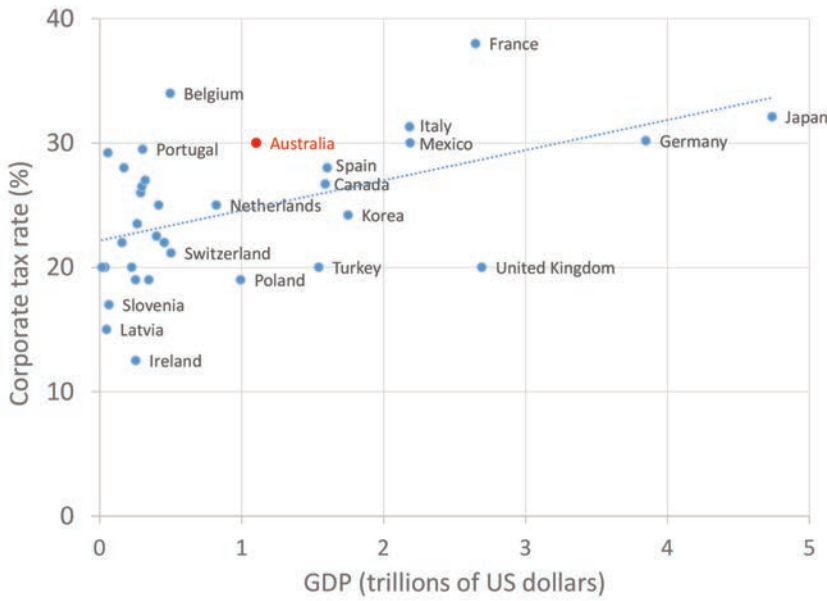
Also note that the high-taxing Nordic countries have lower company tax rates: according to the OECD, the tax rate in Sweden is 22%; Finland is 20%; Denmark is 22%; Iceland is 20%; and Norway is 25%.<sup>12</sup>

#### 2.1.1 Trends in tax rate over time

The analysis should also consider the trend in tax rates, as investment decisions are often made over long time horizons. These trends show that, while Australia's company rate has remained unchanged, the tax rate in the rest of the developed world is declining quickly.

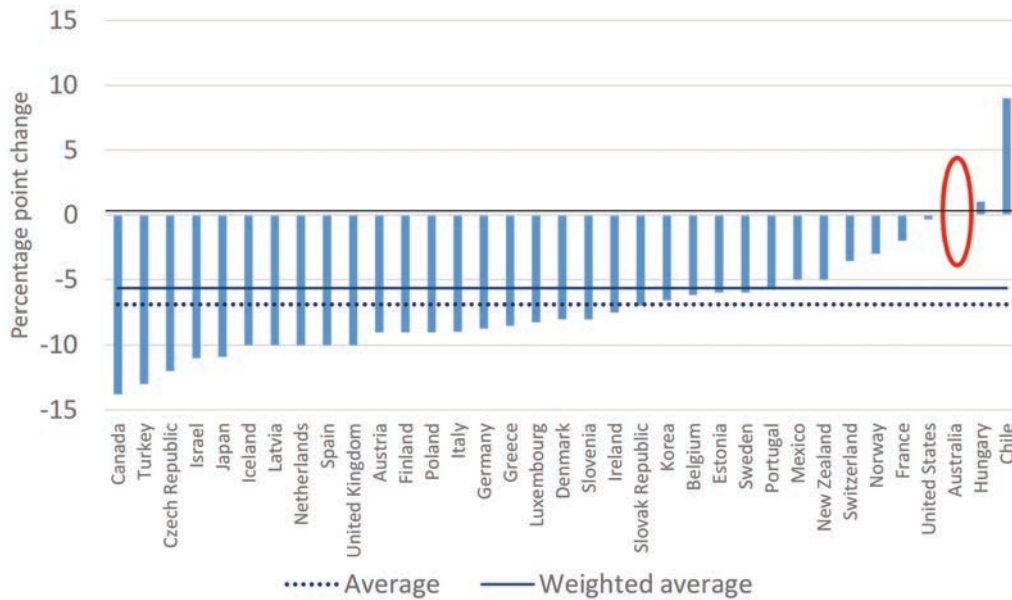
Since the last cut in Australia's corporate tax rate, 32 of the 35 OECD countries in Figure 3 have cut their overall corporate tax rate (the combined rate of all levels of government), with the (weighted) average falling by 5.7 percentage points.<sup>13</sup> This is shown in Figure 3, with Australia's position circled.

**Figure 2: Relationship between company tax rate and economy size for OECD excluding US**



**Source:** OECD Revenue Statistics, OECD.Stat and author's calculations, see Appendix B for details. The company tax rate used is the combined rate for all levels of government in 2015. GDP is converted to US dollars at purchasing power parity. Overlapping labels have been removed. Dotted line is line of best fit. The US is excluded as an outlier in this graph, but the relationship including the US is similar.

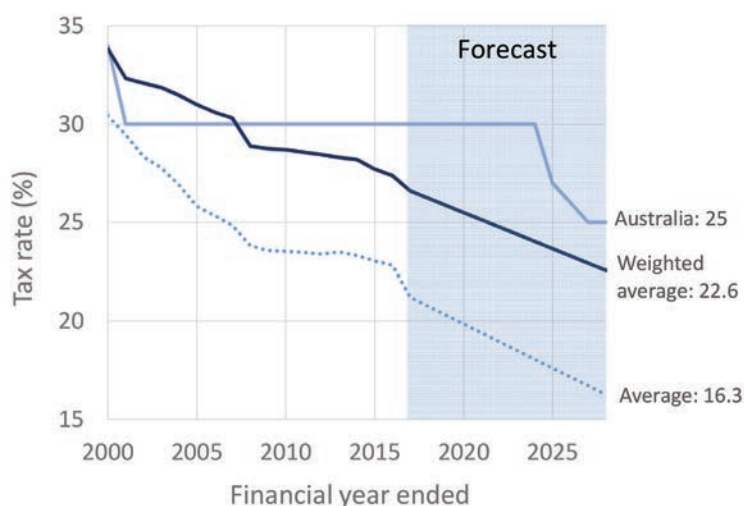
**Figure 3: Change in corporate tax rate in OECD, 2001–2016**



**Source:** OECD Revenue Statistics and OECD.Stat, see Appendix B for details. This shows the combined tax rate for all levels of government (for example the national rate for the US did not change over this period, but state tax rates changed). The average decline in the tax rate is 6.9 percentage points while the weighted average decline is 5.7 points. The changes for the corporate tax rate at the national level are similar.



**Figure 4: Australia’s corporate tax rate — history and forecasts**



**Sources:** OECD Revenue Statistics, OECD.Stat and 2016–17 Budget, see Appendix B for details. Trend lines are extrapolated based on figures from 2000 to 2016. The rate shown for Australia is the rate for the largest businesses.

The OECD weighted average corporate tax rate is falling and will be below 25% in 10 years’ time if trends are projected forward (see Figure 4). Despite the proposed cuts to Australia’s tax rate, we will still be above the weighted and unweighted average in every year, including the year when the tax rate is set to fall to 25% (2026–27).

Australia’s company tax rate also fares poorly in comparison with countries in our region. The KPMG online tax database has the average corporate tax rate for Asia at nearly 22% in 2016 and the average rate

for Oceania at 26%.<sup>14</sup> The Asia average has declined by 7.0 percentage points over the past 10 years, while the Oceania average has declined by 4.6 points. The global average tax rate is 23.6% in 2016, a rate that has declined by 3.9 points since 2006.<sup>15</sup> Over this whole period, Australia’s rate remained unchanged.

It is sometimes argued<sup>16</sup> that Australia’s imputation system makes our company tax system more competitive. This is a dubious claim, as discussed in Box 1.

### **Box 1: How does imputation affect international comparisons?**

Australia’s imputation system gives a credit to Australian shareholders for the tax that has already been paid at the company level.<sup>17</sup> This effectively means that profits are taxed at an Australian investor’s personal tax rate instead of the company tax rate, but only when profits are paid out as dividends. If a company has only Australian shareholders, and distributes all its profits immediately, the company tax rate is not relevant.

Therefore, it is tempting to argue that imputation should be removed in international comparisons of the company tax system. However, this is largely incorrect, because investors do not put full value on imputation credits, and on average discount the value by 50% or more. There are two main reasons for this: foreign investors largely receive no benefit from imputation credits, and the credits are devalued over time for domestic investors because of retention of profits.

First, foreign investors have limited use for imputation (or franking) credits so the imputation system provides little benefit to them.<sup>18</sup> It is this foreign investment that Australia needs to attract, and foreign investors are particularly responsive to company tax (see Section 3.2.2). This means the most relevant comparisons relate to foreign investors, and should not be adjusted for imputation.

Second, Australian investors also devalue imputation credits, mainly because profits are frequently retained in the company, and may not be paid out as dividends for years.<sup>19</sup> As a result, the value of imputation credits can be diminished in present value terms compared to the time when the profits were made. The average profit retention rate for Australian companies is fairly high at around 40–50% as shown in ATO data (see Table 1). The ATO figures also indicate strong yearly growth in franking account balances, which is another indicator of substantial rates of retained earnings.

**Table 1: Profit retention rates & growth in franking credit balances**

Period	Retention rate		Yearly growth in franking accounts
	% of profit	% of taxable income	
2013-14	36%	42%	7.1%
5 year average to 2013-14	47%	44%	8.0%
Whole period average	45%	44%	9.0%

**Source:** ATO Taxation Statistics, see Appendix B for details. Profit retention ratio = percentage of profits or income that aren't paid out as dividends and is equal to 1 - dividend payout ratio.

Figures from the Reserve Bank indicate listed companies in Australia have a profit retention ratio averaging 33% over the period 2005–2015,<sup>20</sup> but this is not representative of *all* Australian companies, where the retention ratio is higher as noted above.

So neither local nor foreign investors place full value on imputation credits. This is supported by the behaviour of both companies and investors. A 2004 survey of companies showed a large majority didn't adjust their cost of capital for imputation, and a very small minority (4%) valued the credits at more than 50% of nominal value.<sup>21</sup>

Similarly, the market discounts the value of imputation credits by a substantial amount, with studies showing the discount to be 50% or more.<sup>22</sup> Assuming the figure is 50%, this means that investors, on average, expect to only recoup 50% of the costs of company tax — or conversely the imputation system only offsets 50% of the impact of company tax.

Nevertheless, figures in the main text do a full adjustment for imputation, with no discount. The figure subtracted is \$19bn, which is Treasury's calculation of the value of imputation credits used by personal taxpayers, charities and superannuation funds.<sup>23</sup>

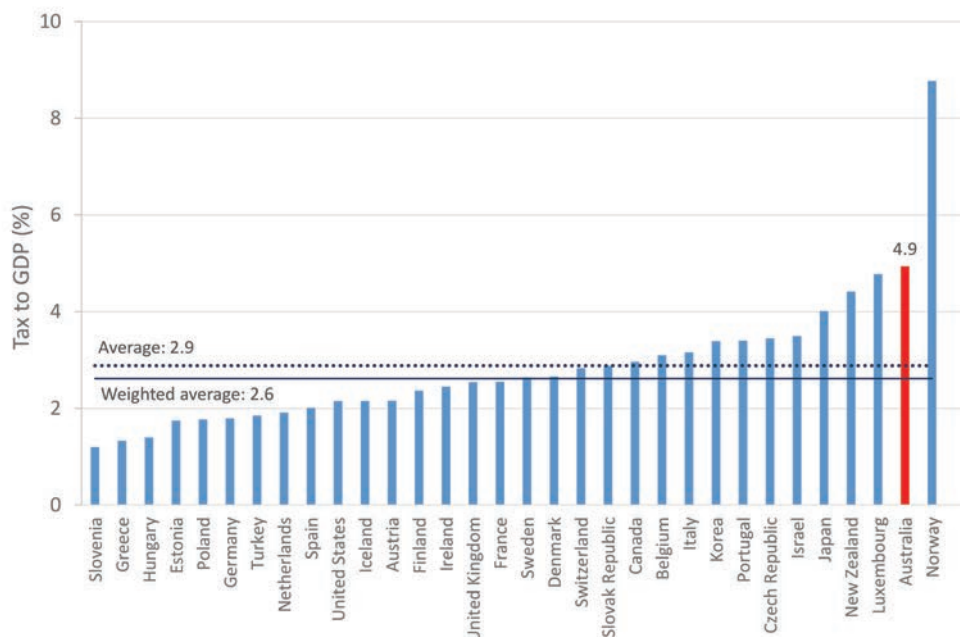
## 2.2 Company Tax to GDP

Australia's corporate tax to GDP ratio was at 4.9% in 2013 (the most recent year with OECD data), which is well above the OECD average of 2.8% and the weighted average of 2.6% for 2013.<sup>24</sup> This is shown in Figure 5. Australia is second highest of the 32 countries included, and has been second or third highest since 2006.<sup>25</sup>

The Australian figures include rent taxes;<sup>26</sup> there is a good argument to remove these taxes as they don't

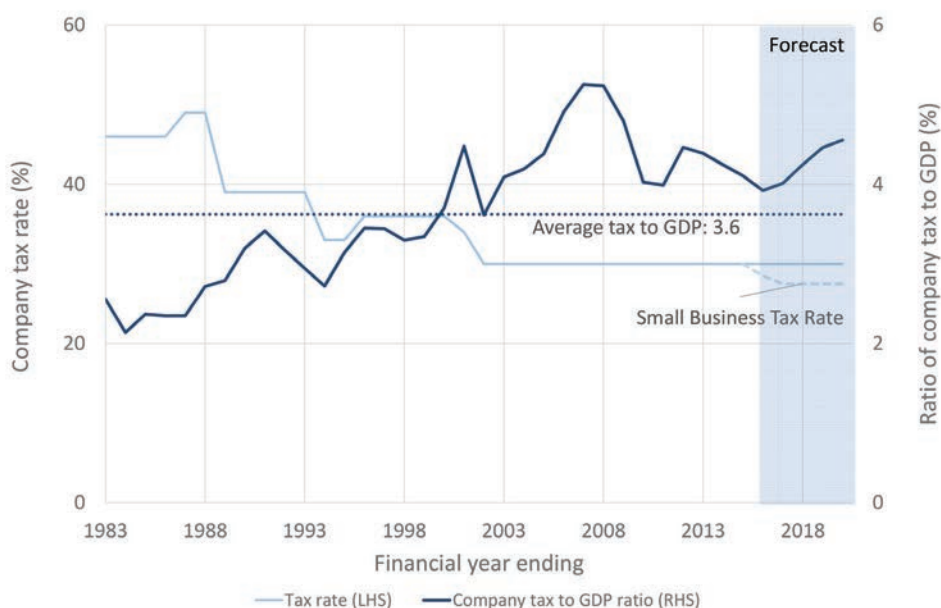
apply to business in general. Making this adjustment, the tax to GDP ratio declines to 4.7%. Taking off the proposed tax cut as well takes the ratio to 4.3%. There is a weaker argument to remove imputation credits (see discussion in Box 1); nevertheless, making this adjustment takes the tax to GDP ratio to 3.1%. In all cases, these adjustments still leave the tax to GDP ratio above both the weighted and unweighted averages.<sup>27</sup>

**Figure 5: Company tax to GDP ratio in OECD**



**Source:** OECD Revenue Statistics and OECD.Stat, see Appendix B for details. Figures are for 2013.

**Figure 6: Company tax to GDP ratio for Australia — history and forecasts**



**Source:** ATO, 2016–17 Budget, PBO & ABS, see Appendix B for details. The average is from 1982–83 to 2015–16.

### 2.2.1 Trends in tax to GDP over time

Australia’s company tax to GDP ratio has increased in recent decades, with some fluctuations around this trend. This increase has even occurred with the various cuts in the tax rate before 2001, as shown in Figure 6: Company tax to GDP ratio for Australia — history and forecasts. The recent weakness in this measure coincides with GFC and the end of the mining boom, when corporate profits have also declined. However, tax revenue is forecast to rebound strongly in coming years, and is a large contributor to the budget repair process (see Introduction). This also means that Australia’s position relative to the OECD may be getting worse over time.

Similar results have occurred in other OECD countries: company tax revenue has actually increased as a share of GDP after the tax rate was cut in the United Kingdom, Canada, Ireland and New Zealand.<sup>28</sup> The reasons for this include increased corporate profits, increased incorporation, and changes to broaden the tax base. Treasury and the OECD have discussed these reasons and analysed in more detail the different measures of tax burden, including the effective tax rate (explored in the next section).<sup>29</sup>

Nevertheless, the increase in revenue after taxes were cut also supports the argument in Section 5.1 that the costs of corporate tax cuts can be partly recouped due to the dynamic benefits of tax cuts.<sup>30</sup>

### 2.3 Effective rate of tax

The effective rate of tax is broadly the ratio of tax paid to company profits. This is generally a better measure of the impact of company tax, because it takes into account deductions and exemptions from the tax base, which carry substantial weight in investment decisions<sup>31</sup> and particularly affects the United States (see Box 2).

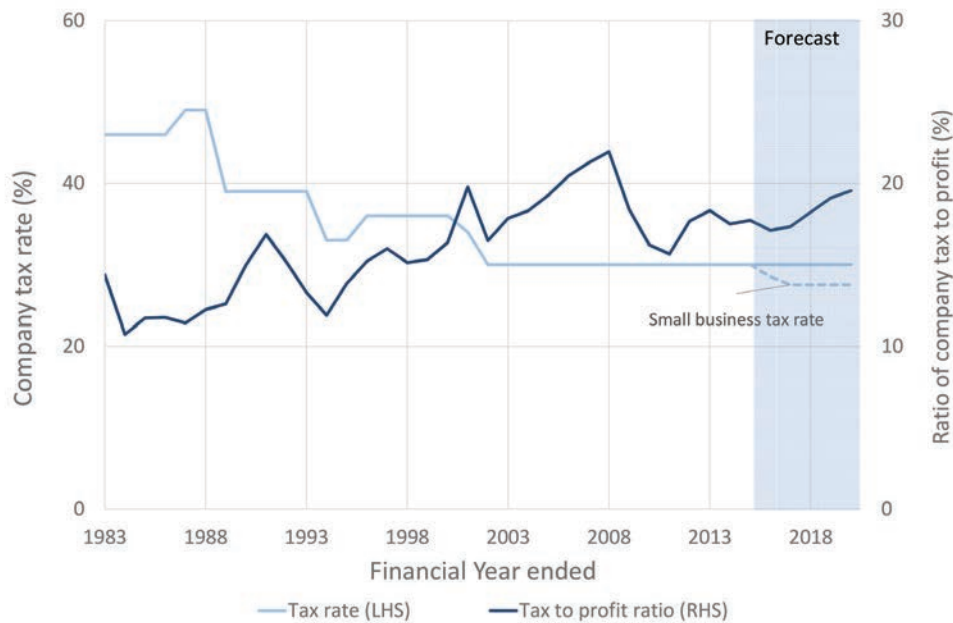
Australia has an uncompetitive effective tax rate, as shown in a number of comparisons.<sup>32</sup>

A report for the US Business Roundtable by PriceWaterhouse Coopers found that the effective tax rate for companies headquartered in Australia was 27.1% from 2006–2009, which is fifth highest of the 28 surveyed countries and well above the average of 22.8%.<sup>33</sup>

The World Bank’s *Doing Business* report for 2016 found the profit tax rate (which measures the tax on profits as a percentage of commercial profit) for Australia is 26%, which is well above the world average (16.2%), the EU/EFTA average (12.6%), non-EU OECD average (16.1%), and the Asia-Pacific average (17.6%).<sup>34</sup>

A report for the Minerals Council of Australia found Australia has one of the highest marginal effective tax rates on investment (tax paid as a share of pre-tax rate of return on capital) among the OECD, as well as among a larger sample of 45 countries. From 2005 to 2015, Australia’s effective tax rate moved from 10<sup>th</sup> highest to 4<sup>th</sup> highest in the OECD.<sup>35</sup>

**Figure 7: Company tax to profit ratio for Australia — history and forecasts**



**Source:** 2016–17 Budget and PBO, see Appendix B for details. Profit is measured by gross operating surplus (GOS), which is similar to profit.<sup>36</sup> Forecasts for GOS are from page 4-9 of the Budget.

### 2.3.1 Trends in effective tax rate over time

Australia’s effective corporate tax rate has been increasing over time, as shown in Figure 7; there have been substantial fluctuations around this long-run trend, particularly due to the Global Financial Crisis.

However, the Budget forecast is for this upward trend to continue in coming years. The upward trend is explained by the same factors that explain the upward trend in tax to GDP — namely increased corporate profits, increased incorporation, changes to broaden the tax base, and partial recoupment of the costs of corporate tax cuts.

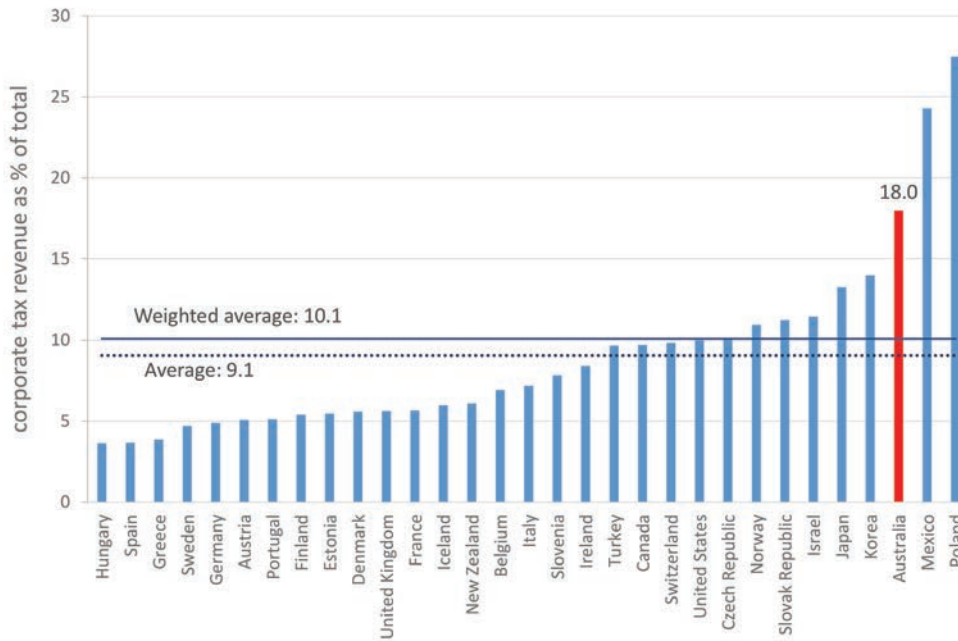
### Box 2: How does the United States handle a high company tax rate?

The US has a high statutory tax rate by world standards, but this is offset by a narrower tax base, so the OECD data (see Section 2.2) has the US with a company tax to GDP ratio of 2.6%, only just above the OECD weighted average of 2.5%. One reason for this is that US multinationals are able to reduce their tax bill by keeping funds offshore, including in Australia. The funds offshore are reportedly more than \$3.1 trillion.<sup>37</sup> This substantially cuts the tax payable by US multinationals (but has a smaller effect on domestic US businesses).

Also as noted in Section 2.1, larger countries such as the US may be able to accommodate higher corporate tax rates because they need less foreign investment, and businesses in larger countries can be, on average, less globally focussed. In addition, the US has higher levels of economic freedom than Australia on some measures;<sup>38</sup> even if the high company tax rate is a major disadvantage, it is offset by a lower tax and regulation burden in other areas.

Finally, the US tax rate may not remain at 35%; Australia shouldn’t be setting its tax rate in 10 years’ time on the basis that the US rate will remain at its current levels.

**Figure 8: Company tax revenue as a share of total tax revenue for OECD**



**Source:** OECD Revenue Statistics and OECD.Stat, see Appendix B for details. Figures are for 2013.

## 2.4 Reliance on company tax

Australia relies more on company tax as a share of total tax revenue than most other developed countries, as shown in Figure 8. Australia’s reliance on company tax is just under double the two averages shown.

If rent taxes are removed from this calculation, the company tax share becomes 17.3%, while adjusting for the proposed company tax cut takes this share to 15.8%. There is a weaker case to adjust these figures for imputation (see Box 1); nevertheless making this adjustment takes the company tax share to 11.4%. In all cases, Australia’s reliance on company tax is still well above both of the averages.

These comparisons show that Australia’s tax mix is heavily skewed towards company tax, compared to other developed countries: and the OECD has stated the company tax is the most harmful to growth of all the major taxes levied in the OECD.<sup>39</sup>

## 2.5 Other measures of competitiveness

Australia is also becoming less competitive on more general measures of regulatory burden, which include the impact of company tax. For example:<sup>40</sup>

- The World Economic Forum has Australia’s Global Competitiveness Ranking falling from 16th in 2007 to 21st in 2016.<sup>41</sup>
- IMD World Competitiveness Yearbook has Australia’s ranking falling from 5<sup>th</sup> in 2010 to 17<sup>th</sup> in 2016.<sup>42</sup>
- The Heritage Foundation Index of Economic Freedom has Australia’s score declining by almost 3 points from 2012 to 2016. Over the same period, the world average freedom index has increased by almost 1 point.<sup>43</sup>

In addition, the Productivity Commission argues that Australia has recently become one of the most restrictive countries for foreign investment.<sup>44</sup> Australia’s high company tax rate is compounding the adverse effects of the uncompetitiveness of Australian regulations.





### 3 Benefits of the company tax cut

The uncompetitive nature of Australia’s company tax system is one reason there are important weaknesses showing up in the economy. The company tax cut will help address these risks and problems. In particular, the policy will boost investment, increase employment and wages, lift labour productivity, stimulate growth in GDP and national income and lead to a rise in exports. These economic benefits result in governments receiving more tax revenue, substantially offsetting the costs of the tax cut.

#### 3.1 Summary of the benefits of a company tax cut

The federal Treasury has modelled the long-run impact of a company tax cut from 30% to 25%, finding under several different assumptions there are multiple and

substantial benefits of the company tax cut, as shown in Table 2.

The actual tax cut proposed by the government is funded from several sources, so the modelling does not reflect the *exact* proposal of the government. The benefits are smallest in the scenario where the funding for the tax cut comes from personal tax increases (Scenario 2),<sup>47</sup> but the funding doesn’t come from this source as argued in Section 5.1. As a result, the benefits are likely to be closer to the figures in scenarios 1 and 3.

The Treasury commissioned separate modelling from Independent Economics and KPMG, who found similar benefits to the figures in Table 2 below.<sup>48</sup> These modelling results are not identical, because of differences in the underlying models and assumptions.

**Table 2: Summary of Treasury modelling of company tax cut**

Variable	Scenario 1: Funded by lump sum tax	Scenario 2: Funded by increased personal tax	Scenario 3: Funded by cutting wasteful government spending
	% change (compared to situation with no tax cut)		
Investment	2.8	2.6	2.9
Employment	0.4	0.1	0.1
Wages after tax	1.1	0.4	1.1
Labour productivity	0.8	0.9	1.0
GDP	1.2	1.0	1.1
National income	0.8	0.6	0.7
Exports	2.2	2.0	2.1
Budget impact	Zero — all scenarios have the cost of the tax cut fully offset by other changes		

**Source:** Kouparitsas et al (2016),<sup>45</sup> Table 1; for productivity, author’s calculations based on Kouparitsas et al (2016), Table 1.<sup>46</sup> Figures are in real (after inflation) terms.

## 3.2 Investment

Australia competes globally with other nations to secure investment: there are substantial global funds seeking places to invest, and businesses can often move to where the investment climate is most friendly. This investment is essential to maintaining and boosting Australia's economic growth, jobs and overall wellbeing. The benefits to Australia from international investment is supported by a number of studies:<sup>49</sup>

- Between 1984 and 1989, foreign capital meant Australia's real national income was 15% higher than otherwise.
- A 10% increase in foreign direct investment over the period 2010 to 2020 would increase real GDP by 1.2%.
- Conversely, a reduction of foreign capital inflow and investment of 1% of GDP would reduce Australia's national income by about 0.5% each year over a ten-year period.

The Productivity Commission and Treasury have argued other benefits of foreign investment include promoting competition, productivity, the transfer of foreign technology and knowledge to Australia and increasing access to global supply chains.<sup>50</sup>

### 3.2.1 Australia has a significant problem with declining investment

The substantial benefits of international investment highlight the problems caused by business investment being very weak. Non-mining investment is at recessionary levels: historically, it has only been this low in the depths of the 1990 recession, as shown in Figure 9.

This is particularly troubling: the economy was clearly much weaker during the 1990 recession than today, but investment is at similar levels. Mining investment is somewhat higher, but is falling at a very fast rate due to the end of the mining boom, as shown in Figure 9. NAB is forecasting mining investment to decline by 70% over the next three years,<sup>52</sup> and mining investment is not being replaced by non-mining investment.

Similarly, the flow of foreign direct investment into Australia slowed in 2015 to be at its lowest level since 2005, with the fall much larger than the decline in other commodity producing nations such as Canada and Brazil. By comparison, global investment flows in 2015 increased by 38%, or 15% excluding corporate restructures.<sup>53</sup>

In Australia, investment funds are not significantly going into business investment, instead funds are going into housing and bonds,<sup>54</sup> as shown in record low yields for bonds and rental properties in key markets.<sup>55</sup> The decline in bond yields is a global phenomenon, so there are substantial global funds looking to invest in low-risk assets. However, returns on Australian equities are not high enough to compensate for risk compared to these other assets.

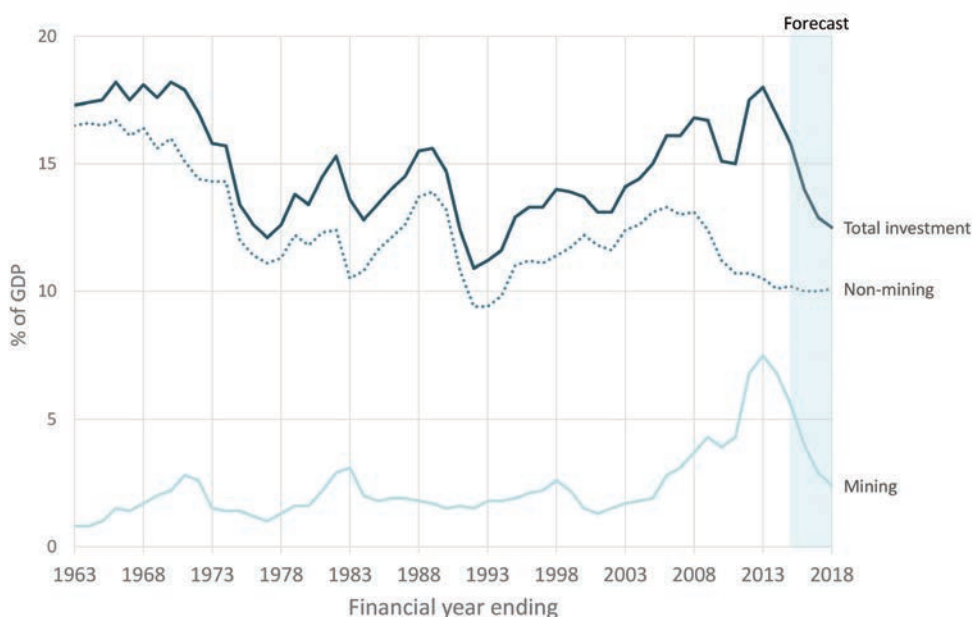
The natural conclusion of this analysis is that business investment in Australia is not attractive.

### 3.2.2 The effect of tax on investment

The substantial impact of the corporate tax rate on investment, including foreign investment, is shown in numerous international studies, including:

- The OECD (2010)<sup>56</sup> found that reducing the company income tax rate by 5 percentage points would lead to an increase in the investment to capital ratio of around 1.9%.

**Figure 9: Business investment in Australia (% of GDP)**



Source: ABS and Treasury.<sup>54</sup> Forecasts are from the 2016–17 Budget.

- Feld and Heckemeyer (2011)<sup>57</sup> synthesised 45 papers on this issue as finding a 1 percentage point reduction in tax rates leads to an increase in foreign investment by between 1.19% and 2.28%.
- The IMF Fiscal monitor for April 2016 examined 103 countries from 1990 to 2013 and found that a 1 percentage point cut in the corporate tax rate is associated with an increase in foreign investment by 4.4% in advanced countries.<sup>58</sup>
- Djankov et al (2010)<sup>59</sup> studied the impact of corporate taxes in 85 countries and found that the effective corporate tax rate (discussed in Section 2.3) has a large and significant adverse effect on total investment, foreign investment and entrepreneurial activity.
- Arnold et al (2011)<sup>60</sup> in a study of 21 OECD countries, including Australia, found that a 5 percentage point reduction in the corporate tax rate implies a long-run increase in the investment to capital ratio by 1.9%.
- Vartia (2008)<sup>61</sup> in an industry-level study of 16 OECD countries, including Australia, found that a 5 percentage point reduction in the corporate tax rate results in an increase in the investment to capital ratio by 1.0% to 2.6% in the long run, depending on the empirical specification.
- Mertens and Ravn (2013)<sup>62</sup> found that a 1 percentage point reduction in the US corporate tax rate leads to an increase in nonresidential investment of up to 2.3%.

The adverse impact of company tax on investment is supported by a number of statements from businesses indicating they have cut Australian investment because of our company tax rate, including CSL which indicated it would build a new project in Switzerland instead of Australia due to factors including a lower company tax rate. The new plant, worth \$500m would have created 500 new jobs.<sup>63</sup>

Similarly, Malaysia-based Catcha Group rejected a proposal to move to Sydney because the Australian company tax rate is too high. Patrick Grove from Catcha Group is reported saying "The tax rate has been a deal breaker for me considering Australia as a hub personally and pursuing investment opportunities there."<sup>64</sup>

### 3.2.3 How cutting company tax will boost investment

The company tax cut will cause a boost in international investment into Australia, by increasing the return after tax for foreign investors. These investors will respond by purchasing more Australian shares, injecting capital into existing businesses, and establishing new Australian businesses, as explained in Box 3.

Treasury estimates that the tax cut policy will lead to an increase in investment by 2.6% to 2.9% (Table 2), based on investment levels in 2013–14.<sup>65</sup> This is an increase of about 0.5% of GDP; given investment is now smaller as a proportion of GDP, this means the percentage growth in investment is potentially much larger at 3.4% to 3.8%, based on 2016–17 investment levels.<sup>66</sup>

#### Box 3: Explaining the impact of the tax cut for foreign investors, according to the modelling

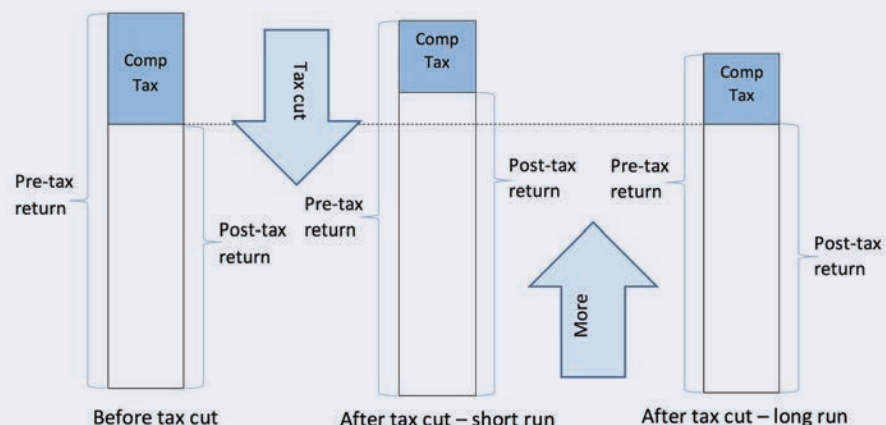
The short and long run effects of the tax cut on foreign investors are shown in the diagram below, based on Treasury explanation of their modelling.<sup>67</sup>

The return on foreign investment before the tax cut is shown in the leftmost column. The tax cut initially results in the post-tax return on capital increasing (middle column below), causing an expansion in investment. This then causes the rate of return on capital to decline due to diminishing returns (each additional dollar of capital produces slightly less than the previous dollar). The modelling assumes this investment occurs until the return is back to its previous level before the tax cut (rightmost column below).

This means there is no long run benefit to foreign investors. While this is unrealistic, the results only change slightly if it is assumed returns don't go back to their previous level and returns to foreign investors remain higher.<sup>68</sup>

The argument that the tax cut should be rejected because it provides benefits to foreigners is critiqued in Section 7.

**Figure 10: Effect of a company tax cut on returns to foreign equity investment**



### 3.2.4 The modelling probably underestimates the benefit to investment

In addition to increased foreign investment, there are two other channels for investment to increase — and these channels are broadly assumed away in the modelling of the tax cut.

First, the modelling, and some of the commentary on the tax cut policy,<sup>69</sup> assumes imputation means company tax does not affect Australian investors. However, this does not reflect reality. As discussed in Box 1, market evidence indicates that investors as a whole value imputation credits at 50% or less. If we assume foreign investors do not value credits at all, this implies that local investors alone put a value on credits of 63% or less on average<sup>70</sup> (as foreign ownership of Australian shares is at about 20%<sup>71</sup>). If foreign investors place a positive value on imputation credits, then the value put on credits by Australians would be below 63%.

This means Australian investors as a whole expect to feel at least one third of the impact of the company tax rate — and the direct effect of the policy on investment decisions by Australians, assumed away in the modelling, is influenced by the company tax cut.<sup>72</sup>

Second, there are companies themselves. The evidence in Box 1 suggests that companies largely ignore imputation credits in their cost of capital calculations, despite Australian shareholders benefiting from imputation. This means that most Australian companies will lower their cost of capital due to the tax cut, and will increase their investment, probably by more than assumed in the modelling.

As a result of these two additional channels, the modelling most likely (a) overstates the impact of imputation, (b) understates the increase in investment from Australians, and therefore (c) underestimates the benefit of a company tax cut.

There are other reasons to expect that investment will occur through these two additional channels:

- The comments of some companies indicate the Australian company tax system affects their investment decisions, with numerous business leaders arguing that more investment will occur with a lower tax rate.<sup>73</sup> For example, Grant King from Origin has argued that a lower company tax rate is crucial to getting future gas investment projects underway, and Andrew Smith, chairman of Shell Australia argued that the company tax rate will therefore have a direct effect on competitiveness of local projects.<sup>74</sup> Again, to the extent these investments are locally financed, this means the benefits are greater than shown in the modelling.
- A survey by COSBOA reportedly showed that 40,000 small businesses will expand their operations due to the tax cut.<sup>75</sup> While this was reported negatively, in fact this result shows that there will be an increase in Australian-financed investment.<sup>76</sup> An expansion by 40,000 businesses is more than the number in the modelling which is about zero (or even negative) by assumption.

## 3.3 Benefit to Wages & Employment

Wages growth is at historically low levels,<sup>77</sup> and the company tax cut rate should help boost this growth rate. The improvement to wages occurs because the tax cut results in more capital being invested in Australia (see Section 3.2). This makes the economy larger, and a larger economy results in increased wages. Another way of explaining this is the increase in capital in the economy means there is more capital per worker. Each worker becomes more productive as a result. The increased productivity of each worker raises the wages paid to workers.

The increase in wages is modelled to lie between 0.4% and 1.1% (See Table 2). The higher figure would add about half a years' growth to wages (at current growth rates). As argued in Section 5.1, the company tax cut is not being financed by a hike in personal taxes, so the wage increase is likely to be closer to the higher figure of 1.1%.

### 3.3.1 Studies showing an increase in wages

A wide array of economic studies support the case that company tax cuts lead to higher wages, or conversely tax increases lead to lower wages, including:

- Arulampalam Devereux, and Maffini (2012)<sup>78</sup> found a rise in corporate tax of \$1 would reduce the wage bill by 49c in the long run and 64c in the short run. This study uses firm-level accounting data for just over 55,000 companies in nine European countries.
- Felix (2007)<sup>79</sup> studied household incomes in 30 countries, including Australia, and estimated that a 10 percentage point increase in the corporate tax rate decreases annual gross wages by 7%, with a similar impact on low- and high-skilled workers.
- Fuest, Peichl & Sieglöcher (2013)<sup>80</sup> found a €1 increase in the corporate tax bill leads to a 77% decline in the wage bill.
- Liu & Altshuler (2013)<sup>81</sup> found that a \$1.00 increase in US corporate tax revenue decreases wages by approximately \$0.60. This paper importantly includes businesses having some market power (or monopoly power), and they find the impact of company tax on wages is greater if markets are more concentrated.
- Andrew Leigh, the Shadow Assistant Treasurer, summarised<sup>82</sup> a report by Gentry (2007)<sup>83</sup> for the US Treasury as finding that an increase in company taxes by 10 percentage points leads to a fall in wages of 6-10%.

### 3.3.2 Impact on employment

In relation to employment, the modelling indicates a smaller gain — but it is still an improvement. This smaller gain is broadly because the models assume there is no involuntary unemployment, a fairly standard assumption in economic models. However, a greater benefit to employment seems likely, as there are workers ready to



take jobs, with unemployment currently 1.6 percentage points above its recent low of 4.0% in August 2008.<sup>84</sup> This implies that the benefit to employment will be larger (and the gain to wages will be smaller).

But regardless of the assumption about employment and wages, workers benefit.

### 3.4 Economic growth & GDP

Australia's economic growth is currently good, particularly compared to other developed countries.<sup>85</sup> However, this report highlights many other measures of economic performance that are much weaker; and Australia will not be able to sustain growth in the longer run without improvements in these other measures, particularly productivity and investment.

#### 3.4.1 Benefit of the tax cut to GDP

The Treasury modelling indicates the company tax cut will increase GDP by 1.0–1.2% because of the boost to investment (see Section 3.2) and employment (Section 3.3). The correct ways to present this increase in GDP are discussed in Appendix A.

Treasury has argued this gain to GDP is substantial, only slightly less than the combined benefit of the major reforms to telecommunications, ports and rail in the 1990s.<sup>86</sup> The gain from the tax cut is also similar to the estimated gain to GDP of 1.1% from an extensive range of reforms proposed by Infrastructure Australia, including large productivity improvements in gas, electricity, the NBN, telecommunications, water and transport.<sup>87</sup> And these two examples are not single reforms, like a company tax cut, but a collection of numerous reforms covering many separate changes to regulations, and taking years to design and enact.

#### 3.4.2 Other evidence for an increase in GDP and growth after company tax cut

Several studies have shown the beneficial impact of corporate tax cuts on GDP and growth including:

- Ferede & Dahlby (2012)<sup>88</sup> found for Canada that a 1 percentage point cut in the corporate tax rate is related to a 0.1–0.2 percentage point increase in the annual growth rate (which can have a large effect when compounded over time).
- Mertens and Ravn (2013)<sup>89</sup> examined US tax changes and found a one percentage point cut in the corporate income tax rate raises real GDP per capita on impact by 0.4% and by 0.6% after one year.
- Arnold et al (2011)<sup>90</sup> in an empirical study of 21 OECD countries, including Australia, found that a 1 percentage point cut in the corporate tax rate is associated with an increase in GDP per person of 2%. The effect of an income tax cut and an income tax increase are roughly symmetrical in this study.

These findings are also consistent with findings of an OECD study that corporate taxes are the most harmful

to growth,<sup>91</sup> and the evidence that company tax is particularly detrimental to economic wellbeing (see Section 3.7).

### 3.5 National income

One measure that is showing significant weakness is national income, which is (broadly) GDP minus payments to foreigners.<sup>92</sup> Gross national income per person is 1.5% below the peak in December 2011 in trend terms, and has been growing at an annual rate of 0.6% since the GFC, compared to the pre-GFC growth rate of 3.0% per year.<sup>93</sup>

Some of the increased production (GDP) from the tax cut needs to be paid to foreigners as income on their investment into Australia. Subtracting these payments from GDP gives the improvement to national income,<sup>94</sup> which is forecast to grow by 0.6%–0.8% in the Treasury modelling — this broadly indicates the extra money that households will have as a result of the tax cut. This boost to national income is about equal to one full year's worth of growth in national income at current growth rates.

Janine Dixon of Victoria University<sup>95</sup> argues that company tax cuts result in increased GDP, employment, productivity and wages, but cause a decline in national income. However, Dixon's modelling is not of the tax cut proposed by the government; it is in fact modelling of a different proposal put forward by the Business Council of Australia.<sup>96</sup> Therefore it is not directly applicable to the policy proposed by the government.

Dixon's results have also been criticised by Warwick McKibbin of ANU who said Dixon's results imply that Australia would benefit from cutting foreign investment,<sup>97</sup> in complete contradiction with the evidence of the large benefits of foreign investment outlined in Section 3.2. More detailed critiques of Dixon's modelling have been provided by Chris Murphy from Independent Economics<sup>98</sup> and Peter Nash and Brendan Rynne from KPMG.<sup>99</sup>

### 3.6 Productivity growth

Productivity is essentially the amount of inputs (including capital and workers) required by business to make a particular output. If more output can be produced with a fixed quantity of inputs, then productivity has improved. Growth in productivity is essential to improvements in household incomes and standards of living.<sup>100</sup>

However, productivity is currently growing weakly, and well below what is needed to maintain historical growth rates in Australia's living standards.<sup>101</sup> Treasury has argued that if labour productivity grows at its long-term average from 2014 to 2025, then income growth per person will slow to less than half the historical rate. Conversely, if we want income growth to be maintained, then productivity will need to grow at almost double its rate since 2000.<sup>102</sup>

Treasury has also noted that Australia's high company tax rate affects productivity;<sup>103</sup> and the evidence that company tax is highly inefficient (see Section 3.6) indicates the productivity benefits of reducing this tax.

The Treasury modelling supports this argument. The modelling results in Table 2 have GDP (output) increasing by more than labour input; this means that the policy should increase labour productivity by 0.8%–1% over time. This is a bit under half a year's worth of historical productivity growth.

This result is consistent with Arnold et al (2011) who found in a study of 21 OECD countries, including Australia, that lower corporate tax rates are estimated to boost productivity;<sup>104</sup> and Vartia (2008) who found in a study of 16 OECD countries, including Australia, that the average effective corporate tax rate had a negative effect on productivity.<sup>105</sup>

### 3.7 Improvement to overall wellbeing

There is common agreement that the company tax is the most harmful federal tax in terms of its adverse effect on the economic wellbeing of Australians. This is often missed in the arguments about the tax cut, and is a powerful counter to the arguments against the policy: cutting a particularly harmful tax should be in the interests of all Australians. While studies differ on *how*

harmful the tax is, all the relevant studies agree that it is the worst federal tax:

- Treasury analysis, cited in the government's Tax discussion paper (*Re:think*), finds that company tax is about twice as harmful to wellbeing as the personal tax, and more than 2.5 times as damaging as the GST.<sup>106</sup>
- Modelling by KPMG Econtech for the Henry Tax Review found that company tax is more than 1.5 times as harmful as a tax on labour, and 5 times as harmful as the GST.<sup>107</sup>
- Modelling by Independent Economics in 2016 found that company tax is much more harmful: over three times as detrimental as personal tax, and more than 7 times as detrimental as the GST.<sup>108</sup>

Here, harm to wellbeing is the amount a household would pay to avoid a tax increase of a dollar.<sup>109</sup> These figures mean that households receive a much greater improvement in their wellbeing from a cut in the company tax rate than a cut in any other federal tax. In addition, the figures also are an indication of the relative inefficiency of company tax compared to other taxes.



## 4 Other arguments for company tax cut

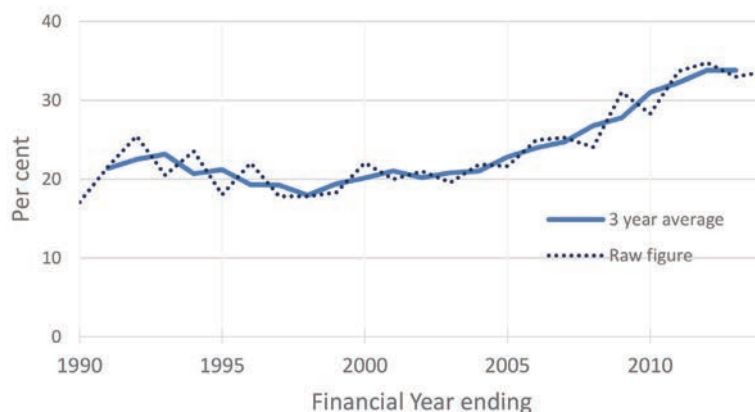
### 4.1 Reliance on a smaller number of taxpayers

The total company tax burden is heavily concentrated, with the top 12 companies paying about one third of all company tax revenue in 2013–14, a substantial increase from the proportion of around one fifth in the 1990s, as shown in Figure 11.

A comparison with two other developed countries is informative. In the United Kingdom, corporate taxpayers with a company tax bill over £50m paid a third (33%) of the total corporate tax bill in 2006, but about a

sixth (16%) in 2015.<sup>111</sup> Over this period, the UK cut its corporate tax rate from 30% to 20%.<sup>112</sup> By contrast, the concentration in the US has grown, and they have not cut their (federal) company tax rate: in 1994, the taxpayers paying more than \$100m paid 43% of total corporate tax revenue, and this has grown to 69% in 2013.<sup>113</sup> This is much faster than the growth in GDP over the same period.<sup>114</sup> So the reliance on large taxpayers has declined in the UK, where there were large tax cuts, while the reliance has grown in the US where there were no tax cuts.

**Figure 11: Proportion of company tax revenue paid by largest 12 taxpayers**



Sources: BCA (2016), Heferen (2015), ATO Tax transparency report.<sup>110</sup>

This indicates the risks to our tax system if there is no change to our company tax rate. Our tax revenue is becoming more and more exposed to the risks and threats facing these individual companies. A bad year for just one of these companies can create a major headache for the government. In addition, the largest taxpayers may have no alternative but to be located in Australia for the moment, but there is a risk that one or more of these companies may be driven to relocate offshore if the gap to other tax rates becomes too great.

In the US, where the federal corporate tax rate remains at 35%, a number of multinational businesses have moved offshore in so-called 'corporate inversions', potentially reducing US tax payments by \$US40 billion over the next 10 years.<sup>115</sup> Similar moves could occur in Australia.

Some companies that could conceivably move offshore are those with substantial international income, such as ANZ Bank (which paid \$1.96 billion in Australian company tax payments in 2013–14), BHP Billiton (tax payments of \$3.95 billion) or Rio Tinto (\$3.05 billion).<sup>116</sup> The loss of one or more of these businesses would be a major hit to Australia's tax revenue. While the move is unlikely at the moment, it can't be ruled out; and it is made more likely as our tax system becomes more and more uncompetitive.

Policymakers should ask: is it worth risking the loss of such large amounts of tax revenue?

#### **4.1.1 Do most of the benefits of the tax cut go to large businesses (including banks)?**

Most of the company tax is paid by the largest businesses, so this means the short-run benefit of the tax cut is focussed on these taxpayers as well. This has been used as an argument *against* the tax cut,<sup>117</sup> but this is the wrong perspective. In fact, this emphasises the problems noted above with the current system, and the major risks faced by failing to reform the tax rate. The tax system is at substantial risk from being so dependent on particular taxpayers, including the risk of one or more leaving Australia.

In addition, the argument that large businesses benefit from the tax cut ignores the evidence that workers obtain substantial benefits from the tax cut in the long run (see Section 3.3), and the rest of the benefit of the

tax cut goes to shareholders, with imputation reducing the impact on Australian shareholders (see Box 1).

The argument that the company tax rate should be cut for small business alone is discussed in Section 8.2.

## **4.2 Company tax is like a tariff on capital imports**

The company tax acts like a tariff on imported capital, as stated by senior Treasury officials.<sup>118</sup> Australia has been well served by reducing its tariffs on imported goods, with studies showing that Australia unilaterally opening for trade has benefited the economy as a whole.<sup>119</sup> A similar argument applies to company tax cuts: Australia as a whole will benefit from cuts to its tariffs on imported capital. Some other perspectives from the tariff debate could be applied to company tax:

- Australia doesn't have different tariff rates on small and large business; similarly, different tax rates shouldn't apply to small and large business (see Section 8.2).
- Tariffs had different effects on different parts of the economy, but the decision to proceed with the cuts was driven by the benefit to the whole economy. The cuts weren't cancelled because one segment of the economy benefitted or lost. Company tax cuts should be analysed along the same lines: look at the benefit to the whole economy (see Section 3).
  - Similarly, tariff cuts provided short run benefits to foreigners who sold products to Australians; the tax cuts weren't cancelled because of this supposed benefit. The same approach should apply to company tax cuts (see Section 7).
- Any concerns about the transitional impact of tariff cuts were partly addressed by phasing in the tariff cuts over time; if there are similar concerns about the company tax cut then phasing it in should address these concerns (see Section 8.1).
- Tariff reform and tax cuts do not need to be budget neutral, noting that the company tax cut combined with other policies is likely to be budget neutral in the long term (see Section 5.1).
- Alternative uses for the revenue from tariffs did not lead to the tariff cuts being cancelled. A similar approach could apply to company tax (see Section 5.3).



## 5 Costs of the company tax cut

### 5.1 Impact of tax cut on Budget

The gross cost of the company tax cut from 30% to 25% is about \$8.2 billion or 0.5% of GDP, assuming no investment response.<sup>120</sup> However, the whole point of the tax cut is for investment to expand and the economy to grow, and this is what the modelling finds (see Table 1). The larger economy results in more tax revenue: company tax, personal tax and other tax revenue increases, partly offsetting the cost of the tax cut. Factoring this in, the net cost of the company tax cut is reduced by up to 49% in the Treasury modelling.<sup>121</sup> This generates a net cost to revenue of 0.3% of GDP (around \$4.2 billion, see Table 3).

- This is consistent with international evidence. For example, the UK Treasury argued that between 45% and 60% of the cost of a UK corporate rate cut will be recouped because of economic growth.<sup>122</sup> A 50% recoupment has been suggested for the US.<sup>123</sup>

The long run cost of the tax cut is almost exactly offset by other measures in the 2016–17 budget: as a result these measures combined have a long-run impact on the budget that is negligible, as shown in Table 3, or an improvement if the superannuation measures announced on 15 September 2016<sup>124</sup> are included.

The government has already stated that the revenue impact of the tax cut is offset by the first anti-avoidance measure;<sup>125</sup> allocating the other two items in Table 3 to fund the tax cut will mean the package as a whole has negligible impact on the budget.

In addition, the net cost of the tax cut on its own (\$4.2 billion) is likely to be an overestimate. As argued in

Section 3.2.4, the modelling underestimates the investment response of the tax cut, thus also underestimating the dynamic benefits to tax revenue. In addition, Treasury’s modelling assumes that companies don’t change their debt to equity ratio,<sup>130</sup> even though companies are likely to reduce debt financing with a company tax cut,<sup>131</sup> reducing their debt deductions and hence the revenue cost of the policy.

This means that the measures in Table 3 in the long run are likely to *improve* the budget position. Therefore, it is misleading to compare the modelling benefits to a supposed budget cost, because the budget cost, at least in the long run, is zero or better. This is discussed further in Appendix A.

In addition, this means that the company tax cut need not be funded by bracket creep (the failure to index personal tax thresholds to inflation or wages growth<sup>132</sup>), as has been argued;<sup>133</sup> it can instead be funded by the revenue raising measures in Table 3.

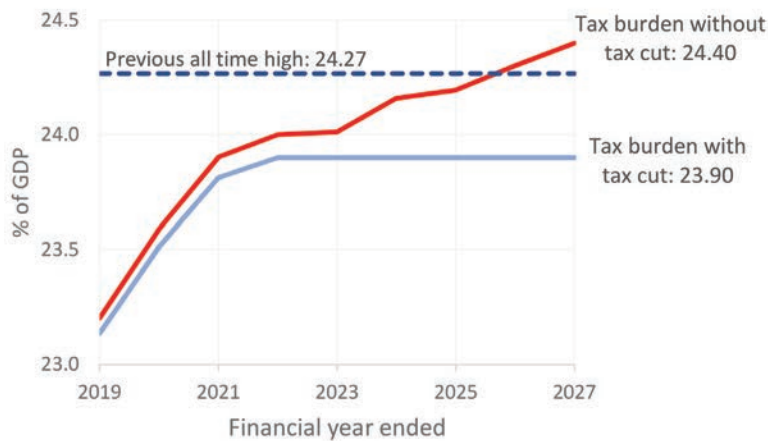
If the measures in Table 3 are seen to be inadequate to fund the company tax cut, then further funding could come from abandoning the legislated increase in the superannuation guarantee (SG) to 12% (therefore maintaining the SG at its current rate of 9.5%). This would increase revenue by an estimated \$2.2 billion.<sup>134</sup> Not only does the SG increase have a significant cost to the Budget, it also is expected to lead to a reduction in GDP, wages, employment, and even investment — all contrary to the expected outcomes of the company tax cut. Evidence for these harmful effects is detailed in Potter (2016).<sup>135</sup>

**Table 3: Funding the company tax cut**

Measure	Long run budget impact in 2015–16 dollars (\$m)	Sources
<b>Company tax cut</b>		
<i>Gross cost</i>	-8,203	Independent Economics.
<i>Net cost</i>	-4,184	Independent Economics, with Treasury’s net cost applied. <sup>126</sup>
<b>Funding measures in 2016–17 Budget — estimated long-run impact</b>		
Anti-tax avoidance measures: diverted profits & integrity	1,417	2016–17 Budget, figure for 2019–20 converted to 2015–16 dollars.
Tobacco tax increase	2,038	2016–17 Budget, figure for 2019–20 converted to 2015–16 dollars.
Superannuation measures (combined effect of all measures)	721	2016–17 Budget, figures for 2019–20 converted to 2015–16 dollars. <sup>127</sup>
<b>Total</b>	<b>4,176</b>	
<b>Net impact</b>	<b>-7</b>	

**Note:** Positive numbers indicate an increase in the budget balance while negative numbers indicate a reduction. The changes to the superannuation measures announced on 15 September 2016<sup>128</sup> are estimated to provide a long run improvement to the budget of \$76m in 2015–16 dollars, so including these changes would mean the package as a whole improves the budget position by about \$69m in the long run.<sup>129</sup>

**Figure 12: Forecast tax burden for federal government**



**Source:** 2016–17 Budget, PBO, author’s calculations. The record for the highest tax burden as a share of GDP (24.27%) was reached in 2004–05. See further discussion in Potter (2016).<sup>136</sup> Note that these figures are for the gross cost of the company tax cut, not the net cost.

## 5.2 Impact of tax cut on overall tax burden

Cancelling the company tax cut will mean that Australia foregoes all the economic benefits detailed earlier in this paper. In addition, the overall tax burden will increase to record highs. The 2016–17 Budget makes the technical assumption that the total tax burden will reach 23.9% of GDP in 2021–22 and be permanently capped at this level.

If the company tax cut is abandoned, the tax burden will breach this assumed cap. The budget will be taking the tax increases in Table 3, but not providing the offsetting cut in company tax.

The impact on the overall tax burden is shown in Figure 12. The forecast total tax burden after 2018–19 (light blue line) is growing strongly. If the tax cut is cancelled, the total tax burden (red line) will grow further, and go above its previous all-time high in 2026–27 (dashed line), based on current forecasts.

However, if the tax cap becomes government policy, then the revenue cost of the tax cut will be fully offset by the measures in Table 3, and the tax cut will not be paid for by bracket creep as has been argued.<sup>137</sup> As a result, the company tax cut will have no impact on the ability to provide personal tax cuts.

## 5.3 Comparison with other policies

It has been argued that the funds for a company tax cut should be used for other policies, such as education.<sup>138</sup> However, a reduction in company tax does not mean that other worthwhile investments must be abandoned. Government decisions do involve tradeoffs between competing goals, but this does not mean that a company tax cut prevents *everything* else from occurring.

Proposals with benefits substantially greater than costs should proceed, regardless of whether there are other policies with substantial benefits. The government only needs to choose between different policies if they have substantial budget costs. However, this does not have to apply to the company tax cut — as argued in Section 5.1, the policy is budget neutral when combined with several other policies from the 2016–17 Budget, meaning there is no need to choose between the tax cut and any other policy.

Therefore, a company tax cut does *not* mean that spending on education cannot occur. They can both occur, and both should be subject to detailed assessment of their costs and benefits to see if the policies are worthwhile — similar to the detailed analysis that has occurred for the company tax cut, with multiple reports being provided into the long and short run impact of the policy.

However, the proposals for large increases in education spending have not been subject to nearly as rigorous analysis as the company tax cut. There have been generic statements about the value of education in the broadest terms, but no cost-benefit analysis of the proposals being put forward, even in rough terms.<sup>139</sup>

Most alternate policies, including education spending or infrastructure spending, involve a cost today for a benefit in the future; but this is similar to the company tax cut. So the concerns that the benefits of the tax cut don’t occur for some time apply equally to the education and infrastructure policies. Conversely, if it is worthwhile spending money today on education to improve economic outcomes in several decades, then it is also sensible to provide a tax cut where the benefit will occur more quickly (as noted in Section 8.1).



## 6 Tax avoidance

Much of the debate over the company tax cut has focussed on tax avoidance, particularly by multinational companies.

### 6.1 Should the tax cut be cancelled because of corporate tax avoidance?

An argument is sometimes made that the company tax cut should not go ahead because of supposedly widespread corporate tax avoidance.<sup>140</sup> This argument is particularly odd: it is effectively arguing that (a) taxes should remain unaffected at zero on the largest tax avoiders who pay no tax; but (b) taxes should remain highest on those businesses who pay the full rate of tax. Similarly, cancelling the tax cut will have the greatest harmful effect on the businesses who pay the most tax and the smallest impact on those who pay the least tax.

In addition, companies supposedly not paying tax have nothing to do with the companies that do pay tax. Why should the tax rate of Australian-focussed businesses such as Woolworths and Wesfarmers (each paying around \$1bn in tax in 2013–14)<sup>141</sup> be determined by the tax practices of the (supposed) multinational tax avoiders? This is like putting a penalty on the local corner store or hairdresser because the local petrol

station had a fuel leak. It is imposing a type of collective responsibility for the 'sins' of others, which is antithetical to good public policy.

Even worse, failing to reduce company tax will actually encourage tax avoidance, as tax avoidance is greater when the tax rate is higher.<sup>142</sup>

Reducing tax avoidance and tax cuts should not be seen as alternatives. They can and should happen simultaneously. In fact, Section 5.1 notes that the company tax cuts are being funded by measures to address tax avoidance.

#### 6.1.1 Evidence of tax avoidance

The overall tax revenue data does not indicate there is currently a major problem with tax avoidance, as Australia's tax to GDP ratio and the effective tax rate are well above historical averages and forecast to increase in coming years (see Section 2). The ATO itself has argued that the evidence does not support the argument that there is widespread corporate tax avoidance.<sup>143</sup>

Nevertheless, there are likely to be individual companies that are reducing their taxes. But this again does not argue against overall tax cuts: the companies that avoid tax have nothing to do with those that don't avoid tax.

The ATO's corporate tax transparency report<sup>144</sup> shows a number of companies paying zero tax, or less than the 30% tax rate, in 2013–14. However, this can occur for entirely valid reasons, including:

- A business making a loss. In each of the last 10 years, between 20% and 30% of the ASX top 500 companies made a loss.<sup>145</sup>
- Businesses making losses in previous years that they carry forward to offset against tax in 2013–14. These companies are being penalised because they effectively can't obtain the full value of the loss for several years.
- Companies receiving foreign income, particularly where the income has been subject to tax overseas.
- Businesses making use of tax incentives, such as the R&D tax concession and accelerated depreciation.

Other reasons for companies paying what might appear to be low rates of tax have been highlighted by the ATO.<sup>146</sup>

All these reasons for low rates of tax payment have been explicitly put into the tax law by Parliament, often with bipartisan support.<sup>147</sup> As a result, the community should welcome, not criticise, the use of these provisions.

### 6.1.2 The future of tax avoidance

While tax avoidance might not be a current issue, it may grow strongly in coming decades, for reasons including:

- More economic activity may move to low tax locations: activities that have no physical location at all (such as the sale of software), or services that can be delivered remotely (such as legal, accounting, design, administration and some medical services). Online services such as Airtasker are facilitating this change.<sup>148</sup>
- Similarly, intangible assets (such as patents, trademarks and goodwill) can be located in low tax

jurisdictions and licenced out to Australian operations at high prices. Because these intangibles are usually unique, it is very hard to argue that these licencing prices are excessive.<sup>149</sup>

- Consumers will be more easily able to bypass taxes imposed on Australian businesses by buying directly from overseas. Examples include digital downloads, and Australian consumers buying insurance direct from offshore insurers. The government has recently imposed GST on these type of transactions, but it is hard to see that any company tax could be imposed.
- Cryptocurrencies will make it easier to conduct transactions that are, at least in theory, completely undetectable and impossible to tax.

A higher company tax rate will encourage this process of erosion of the company tax base,<sup>150</sup> and will penalise the local companies that can't implement these avoidance (or evasion) strategies.

## 6.2 Tax avoidance in the modelling

The modelling includes assumptions that businesses avoid Australian tax through shifting profits to low-tax countries, or other forms of tax avoidance.

The assumptions about tax avoidance have been debated, with some questioning whether tax avoidance is particularly affected by the company tax rate.<sup>151</sup> However, the Treasury modelling is only slightly sensitive to the assumptions about tax avoidance. In addition, if the doubters are correct and avoidance is not particularly responsive to tax rates, then the Treasury modelling says the economic benefit is larger, not smaller.<sup>152</sup>

The Independent Economics results have been criticised because of their assumptions about tax avoidance and they have responded to these criticisms.<sup>153</sup>





## 7 Benefits to foreigners

Australia's imputation system means that company tax has a greater short run impact on foreign shareholders than Australian shareholders (see Box 1). This conversely means that in the short run, the tax cut provides a disproportionate benefit to foreigners.<sup>154</sup>

This has been used as an argument against the tax cut.<sup>155</sup> But it is truly perverse to argue that Australia should forego a benefit to our wages, employment, incomes, GDP, exports and investment, just because some foreigners benefit as well — this is a self-destructive form of xenophobia.

In fact, if there are foreigners who benefit *as well as* Australians, this should strengthen the arguments for the tax cut. A policy that indirectly benefits foreigners should increase our support for the policy, not decrease it: just the same as a policy that caused collateral damage to foreigners should garner lower levels of support.

In addition, the supposed benefit to foreigners is probably overestimated in both the short term and long term:

- The short term benefits of the tax cut for domestic investors are assumed away in the modelling, when in reality Australian investors may feel at least a third of the impact of the tax cut on average (see Section 3.2.4). So this rebalances the short term benefit towards Australians.

- In the long term, the benefit to foreigners is unlikely to last: the Treasury modelling argues that foreign investors obtain no benefit at all in the longer term<sup>156</sup> (see further discussion in Box 3).

### 7.1 Benefit to US Treasury

It has been argued that the proposed tax cut will generate a large 'gift' to the US government, because US companies operating in Australia will pay more US tax if the Australian tax rate is reduced.<sup>157</sup> This is called the treasury transfer effect. However, this argument is a furphy, as stated above: Australia shouldn't forego a benefit to ourselves just because some non-Australians (including the US Treasury) also gain a benefit.

In addition, if this treasury transfer offset occurred dollar for dollar, then every effort of a US multinational to reduce their Australian tax would be completely fruitless, having no impact on their bottom line. Yet we have accusations of large-scale tax avoidance by US multinationals such as Google, Microsoft, Apple and Chevron, contradicting the impact of the treasury transfer effect.

The OECD has downplayed the relevance of the treasury transfer effect,<sup>158</sup> as has the Canadian Department of Finance<sup>159</sup> and the Henry Tax Review,<sup>160</sup> which also cited evidence that foreign investment is very sensitive to company tax rates regardless of whether or not the source country operated a credit system like the US.<sup>161</sup>

In other words, Australian company tax cuts lead to increases in investment from the US just as much as investment from other countries.

Zodrow (2010)<sup>162</sup> states that the treasury transfer effect is of 'severely limited' relevance for numerous reasons. In particular, many US firms are able to defer US tax by keeping funds offshore; the value of these offshore funds are greater than \$3.1 trillion according to reports

(also discussed in Box 2).<sup>163</sup> The incentives for US firms to retain funds in Australia will increase if Australia cuts its company tax rate; this will encourage these businesses to reinvest in Australia. Other reasons cited by Zodrow (2010)<sup>164</sup> include: US firms having excess foreign tax credits; the use of 'tax sparing' provisions; and US firms using avoidance strategies to reduce or eliminate additional US taxes on profits earned offshore.

#### **Box 4: Australia Institute's estimate of the 'benefit' to the US Treasury**

The Australia Institute has argued the benefit of the Australian tax cut to the US Treasury is about \$1 billion in 2026–27.<sup>165</sup> However, this calculation has major flaws, rendering it of no value.

First, the data they use has US companies paying total Australian tax of \$US2.9bn on average, but they are unable to indicate what proportion of this is from Australian *company* tax (as opposed to other Australian taxes). So the report guesses that the proportion is 80%.<sup>166</sup> The report argues that the other possible Australian taxes would make up only a small portion of the total figure, stating that interest withholding taxes are low in value. However, the report doesn't (and probably couldn't) remove the effect of *all* other relevant Australian taxes. Hence there is no real analysis behind the 80% proportion, which the final figure of \$1bn relies on.<sup>167</sup> As this 80% figure is simply fabricated, the overall figure should be treated as being made up as well.

Second, the calculations do not include the impact of excess foreign tax credits. A US company with excess tax credits will not pay extra US tax if Australian company tax is cut; instead the US company will just use up more of the excess credits, as noted by Zodrow (2006).<sup>168</sup> This will partly, or fully, offset the supposed 'transfer' to the US Treasury — but the Australia Institute does not even mention excess foreign tax credits, let alone estimate the impact on their figure.

As a result of these problems, the Australia Institute's figure of the supposed transfer to the US Treasury can be dismissed as having no value for policy analysis.

## 8 Concerns with the policy and alternate approaches

### 8.1 Phasing in/speed of tax cut

The government is proposing that the company tax cut be phased in over 10 years, reaching 25% in 2026–27.<sup>169</sup> However, the government has not provided an adequate explanation of this slow phase in. There is a clear question: if the tax cut has the substantial benefits highlighted in the rest of this paper, why not achieve these benefits sooner? There is a need today for greater investment, higher productivity and faster wages growth (see Section 3), and these benefits will be delayed with a slow phase in of the tax cuts. If the reform is worthwhile doing, it is worthwhile doing now.

While the government hasn't made this clear, the most likely reason for the slow phase in is to limit the short term cost of the policy. However, this approach is not needed: the tax cut, when combined with other measures from the 2016–17 Budget, has no long-term impact on the budget (see Section 5.1). This is similar to the previous company tax cut, from 36% to 30%, which was fully funded by changes to business tax concessions, and was introduced over a much shorter period than the current proposal.

Other possible arguments for phasing in the tax reduction are:

- If the tax cut is seen as 'locked in', then business investment is likely to respond *before* the tax cuts are fully phased in. This brings forward the benefits of the tax cut: the Treasury model argues that the benefits phase in over 20 years;<sup>170</sup> a guaranteed future tax cut will mean the benefits occur earlier, probably by several years (although this bring forward hasn't been quantified precisely).
  - This means there will be increased business investment at *no* budget cost, compared to a tax cut that isn't preannounced.
  - Importantly, this benefit *only* occurs if the tax cut is guaranteed. If there is uncertainty about the policy happening — for example if some politicians commit to repealing the tax cut — then this bring forward will be much smaller or zero.
- The faster investment will bring forward all the other benefits of the tax cut, including higher GDP and wages, and the offsetting boost in tax revenue, a point noted in the Treasury modelling.<sup>171</sup> This may mean that some of the offsetting revenue from the tax cut can occur *before* the cut is fully implemented. This also means the transition costs of the policy are smaller.

- A phase in over time will moderate the incentive for businesses to shift revenue or costs between years when the tax rate changes.
- The phase in will substantially reduce any windfall gain to existing investment (including foreign investors), because of the depreciation of assets over the phase in period.

However, these arguments for phasing can be better addressed by an alternate policy — reducing tax on new (equity) investment only. This would limit the revenue cost, allowing for a larger tax cut on new investment; substantially reduce tax avoidance opportunities (including through profit shifting); and largely eliminate any windfall gains. A paper written for the Henry Tax Review discusses this proposal, implemented as an Allowance for Corporate Equity.<sup>172</sup> This is also better than an investment allowance, which cuts tax on business asset purchases only; this proposal has been critiqued as distortionary and increasing complexity by the government's tax discussion paper (*Re:think*),<sup>173</sup> and the Henry tax review.<sup>174</sup>

### 8.2 Lower rate for small business

The company tax rate is 28.5% for small business, and 30% for all other businesses.<sup>175</sup> This approach could continue, with a lower tax rate for smaller businesses, however defined. While this option has not been modelled, there are a number of reasons to expect that a greater economic benefit occurs from providing the tax cuts to larger businesses.

For example, over the period 2009 to 2015, employment in larger businesses grew much faster than their share in total employment; similarly the value added by larger businesses grew faster than their share of total value added. This is shown in Figure 13.

There are many other characteristics of larger businesses indicating that hampering their growth will be problematic. For example, larger businesses, in comparison to small business, are more likely to:<sup>177</sup>

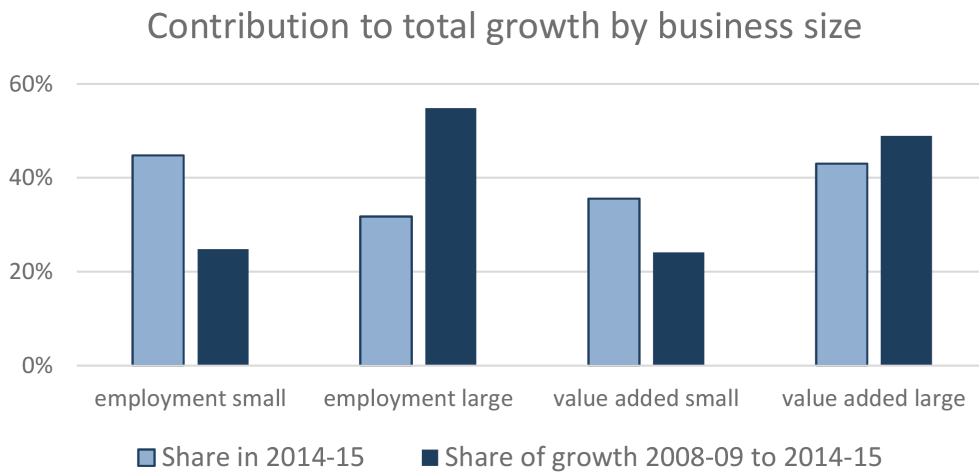
- Provide flexible work hours
- Allow staff to purchase extra annual leave, cash out annual leave or take leave without pay
- Allow selection of roster or shift
- Allow job sharing
- Allow work from home
- Provide paid parental leave

- Provide flexible use of leave (such as to care for other people)
- Collaborate with other businesses
- Export
- Face more competition
- Experience increased profitability, productivity and employment in the year to 2014–15
- Provide increased formal training for employees, and support for community projects, charity contributions or support in the year to 2014–15

Small business have a greater proportional burden from regulation than larger business,<sup>178</sup> but also face advantages over larger business from payroll tax. A small business can pay no payroll tax at all, while a large business can pay more than 6% tax on their payroll costs.<sup>179</sup> So it isn't clear that a lower company tax rate is required to offset other regulatory or tax burdens imposed by the government.

The complexity and cost of having two rates are reasons why a lower tax rate for small business was rejected by the Henry Tax Review,<sup>180</sup> and the UK's Mirrlees Review in 2011,<sup>181</sup> and critiqued by the government's tax discussion paper (*Re:think*).<sup>182</sup>

**Figure 13: Contributions to growth in employment and value added by business size**



Source: ABS (2016).<sup>176</sup>



## Conclusion

It is hard to find an economic policy the Australian government could adopt that would produce the economic benefits of the company tax cut relative to its cost,<sup>183</sup> particularly as the policy can be adjusted so it has no net impact on the budget. The arguments for the policy include:

- Australia's company tax system is uncompetitive on many measures, and is likely to become more so as most other countries continue to reduce their tax rates. This uncompetitiveness exists even when the effect of imputation is fully removed, though the arguments for doing this adjustment are weak.
  - This shows the substantial risks facing the tax system, which are further shown by the growing reliance of company tax on a small number of taxpayers. These risks are being compounded by the failure to reduce the tax rate.
  - The tax cut provides substantial benefits, which should help address Australia's poor investment, wages, income and productivity performance.
    - Nevertheless, the modelling probably underestimates the benefits of the tax cut, particularly by assuming locally-financed investment does not increase due to reductions in the tax rate. The evidence from the financial market and companies themselves suggest the investment response will be larger than assumed.
  - A large number of international studies support these benefits to investment, wages, GDP and productivity.
  - Company tax is similar to import tariffs and should be reformed, similar to Australia's substantial trade liberalisation program.
  - Tax avoidance argues for, not against, the tax cut. There is no argument for cancelling the tax cut for companies paying the full rate of tax because some other unrelated companies are (supposedly) avoiding tax. Individual corporate taxpayers have absolutely no responsibility for unrelated businesses that avoid tax.
  - If additional benefits of the tax cut go to foreigners then this actually enhances the arguments for the tax cut.
  - The long term benefits of the tax cut largely go to workers, rather than large businesses or foreigners.
  - The cost of the measure to the budget is small, or negligible if funded by other budget revenue measures.
- In addition, the benefits of the policy suggest it should be implemented more quickly. The evidence also suggests that the tax cut should not be restricted to small business only, but should be provided to all business.

## Appendix A: how to present benefits of the tax cut

There are numerous ways to present the benefits of the tax cut; some of these ways incorrectly downplay the net benefits of the policy.

The simple rule is: compare the costs and benefits on the same basis.

Most importantly, the modelling results, including the results in Table 2, are net of costs; the benefits shown in the modelling are *after* the costs are subtracted. So it is misleading to compare these results to gross costs. For example, the improvement in national income of 0.6% in Treasury's scenario 2 (see Table 2) is not readily comparable to the reduction in revenue from the tax cut, because this scenario has no impact on total tax revenue: the company tax cut is fully funded from other tax increases. The net revenue cost of this option is zero — or the benefits come at zero *net* cost.

This means the revenue cost should not be compared to the benefits in scenarios where the total tax burden is unchanged. A comparison is less problematic in Treasury scenario 3, which does not involve offsetting tax increases — the tax cut is instead funded by cutting wasteful government spending: this is because the costs of the tax cut are effectively assumed away in this scenario.

Similarly, the company tax cut combined with other measures in the 2016–17 Budget has no long-term impact on the budget (see Section 5.1), again arguing that comparing benefits with revenue cost is misleading.

Even assuming there are none of these offsets to revenue, there are still issues with the way the benefits of the tax cut can be presented as detailed below.

### Approach 1: change in growth rates

If benefits are presented as changes in growth rates, then costs should also be.

It has been argued the modelling has the additional wages growth because of the tax cut as around 0.1% per year over 20 years. But on the same basis, the slowing of federal government revenue growth is also about 0.1% per year over 20 years (noting that the national wage bill is substantially larger than federal government revenue)<sup>184</sup>.

### Approach 2: level of numbers after 25 years

It has been argued the tax cut will mean that income per person will be 45.7% higher in 25 years' time, and without the tax cut incomes will instead be 45.1% higher.<sup>185</sup>

But revenue should also be presented on the same basis: without the tax cut, federal government revenue per person will be 45.7% higher in 25 years' time, and with the tax cut revenue will be 43.6% higher (note that national income is much larger than government revenue<sup>186</sup>). This revenue cost won't dramatically change the government revenue story.

### Approach 3: adding across years

If costs are added together across many years, then the benefits should also be. It is incorrect to compare the benefit in one year with the costs over the next 10 years. So it is also wrong to compare the 10 year cost of \$48bn with the single year improvement in wages of 1.1%. As the benefits of the tax cut occur gradually over time, there are no simple figures on the benefits summed over the next 10 years.

A better comparison is of the long-run yearly cost and long-run yearly benefit: the net revenue cost is \$4.2 billion (see Section 5.2) while the benefit to national income is \$8.9 billion.<sup>187</sup>

## Appendix B: details of data

### International Comparisons

All data for international comparisons is sourced from the OECD unless otherwise specified. Data for the OECD will not match data sourced from Australia, in particular because Australia reports annual data on a financial year basis, while the OECD reports on a calendar year basis.

The OECD does not represent all developed countries, particularly excluding Taiwan. This issue is discussed in Potter (2016),<sup>188</sup> section 5.1. Figures are generally for 2013, as this is the most recent year with Australian data. The weighted average is weighted by GDP at purchasing power parity (using OECD numbers) at the relevant year.

The deductions from international comparisons are as follows:

- The revenue impact of the company tax cut is \$7,727m in 2013 dollars. This is calculated as the estimated cost of \$8,203m for 2015–16 (from Independent Economics),<sup>189</sup> converted to 2013 dollars using nominal GDP as the deflator.
- The value of imputation credits is \$19bn, from the government's tax discussion paper (*Re:think*).<sup>190</sup>
- The revenue from rent taxes is \$1,817m, the total of the figures for the Petroleum Resource Rent Tax and the Mining Resource Rent Tax for the 2012–13 financial year, sourced from the 2014–15 Budget (the figure for the 2013–14 financial year is lower).

### ATO Data on retained earnings

The data on retained earnings is from the ATO Taxation Statistics for 2013–14, Company table 1.<sup>191</sup>

Dividends as percentage of profit covers the period 1995–96 to 2013–14, and is calculated as the ratio of total dividends for all companies divided by total profits for all companies. Dividends as percentage of taxable income covers the period 2009–10 to 2013–14, and is calculated as the ratio of total dividends for all companies divided by total taxable income for all companies. Growth in franking accounts covers the period 1995–96 to 2013–14.

### Australian data

Budget figures are sourced from the 2016–17 Budget and are on a cash basis. Economic figures are from the ABS National Accounts for June 2016. Historical data on company tax rates is from the ATO's Taxation Statistics for 2013–14, Company Table 1.<sup>192</sup> Historical data on company tax revenue is sourced from Parliamentary Budget Office (2014).<sup>193</sup>

As noted above, these figures do not match OECD figures for Australia.

## Endnotes

- 1 Scott Morrison & Mathias Cormann (2016) 2016–17 Budget, Paper 2, page 41.
- 2 Sources: 2016–17 Budget and ABS, see Appendix for details.
- 3 Sources: Parliamentary Budget Office (PBO), 2016–17 Budget and ABS, see Appendix B for details. Average is for the years 1982–83 (the earliest year with available data from the PBO) to 2015–16.
4. See Robert Carling & Michael Potter (2015) *Exposing the Stealth Tax: the Bracket Creep Rip-off*, CIS Research Report 8, 13 December.
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6. 2016–17 Budget; Independent Economics (2016) Company tax scenario, Report prepared for the Department of the Treasury. The net revenue figure is the Independent Economics figure offset by 49%, the revenue dividend in scenario 3 in Michael Kouparitsas, Dinar Prihardini & Alexander Beames (2016) *Analysis of the long term effects of a company tax cut*, Treasury Working Paper 2016-02.
7. See Appendix B.
- 8 Michael Potter (2016) *The case against tax increases in Australia: The growing burden*, CIS Research Report 15, Section 5.1.
- 9 Source: OECD Revenue Statistics. See Appendix B for details. The tax rate is for 2016, while the weighting is based on GDP figures for 2015. The OECD average of 25% sometimes quoted is the unweighted average of the corporate tax rate of all levels of government.
- 10 Céline Azémar, Rodolphe Desbordes & Ian Wooton (2015) "Country Size and Corporate Tax Rate: Rationale and Empirics" CEPR Discussion Papers 10800; and Davide Furceri & Georgios Karras (2011) "Tax Design in the OECD: A Test of the Hines-Summers Hypothesis" *Eastern Economic Journal*, 37(2), pp239-247. See also page 8 of Christopher Heady (2010) *Directions in Overseas Tax Policy*, paper presented to Melbourne Institute – Australia's Future Tax and Transfer Policy Conference.
- 11 Source: OECD Revenue Statistics. See Appendix B for details. Linear regression is of corporate tax rate in 2015 against GDP at purchasing power parity in 2015 (the most recent year available). The r-squared is 29% for the regression including the US, and 24% for the regression excluding the US. The r-squared for regressions on the national corporate tax rate are lower at 13% (including US) and 2% (excluding US).
- 12 Source: OECD Revenue Statistics. Figures are for 2016.
- 13 See Appendix B.
- 14 Source: KPMG Corporate tax rates table, available from: <https://home.kpmg.com/xx/en/home/services/tax/tax-tools-and-resources/tax-rates-online/corporate-tax-rates-table.html>
- 15 Source: KPMG Corporate tax rates table. Note that these are unweighted averages.
- 16 John Daley & Brendan Coates (2016) "The full story on company tax cuts and your hip pocket", *The Conversation*, 18 May; David Richardson (2016) *Company Tax cuts: an Australian Gift to US Internal Revenue Service*, The Australia Institute Briefing Paper, May; and David Richardson (2015) *Cutting the company tax rate: Why would you?* The Australia Institute Discussion Paper, December.
- 17 The ATO explains imputation in more detail at this link: <https://www.ato.gov.au/business/imputation/in-detail/dividends---imputation/reference-guide/imputation-reference-guide/>
- 18 Deloitte Corporate Finance (2014) *Franking credits who is Right?*, November; and Australian Government (2015) *Re:think Tax discussion paper*, page 86. Foreign investors can use imputation credits to offset dividend withholding taxes, but these two cited reports argue that the value to foreign shareholders is limited.
- 19 Other reasons for devaluing imputation credits are stated in Stephen Gray (2016) *JASSA: Dividend imputation and the corporate cost of capital*, Finsia's InFinance, 18 April.
- 20 Michelle Bergmann (2016) "The Rise in Dividend Payments", *RBA Bulletin*, March Quarter.
- 21 Giang Truong, Graham Partington, and Maurice Peat (2008) "Cost-of-Capital Estimation and Capital-Budgeting Practice in Australia" *Australian Journal of Management*, June, 33, pp95-121.
- 22 Deloitte Corporate Finance (2014) *Franking credits who is Right?*; and Gray (2016) *Dividend imputation and the corporate cost of capital*. This paper states the most recent decisions of the Australian Competition Tribunal were that imputation credits should be discounted by 75% (ie valued at 25% of face value).
- 23 Australian Government (2015) *Re:think*, page 83.
- 24 Source: OECD Revenue Statistics, see Appendix B for details.
- 25 As above.
- 26 The OECD figures for company tax revenue include resource rent taxes, see Peter Hendy & Dick Warburton (2006) *International comparison of Australia's taxes*, p51.
- 27 Source: OECD Revenue Statistics and author's calculations, see Appendix B for details.
- 28 Source: OECD Revenue Statistics, see Appendix B for details.
- 29 OECD (2000) *Tax Burdens: Alternative Measures*, OECD Tax Policy Studies No. 2, OECD; and John

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- 33 Source: Figure 2 of PwC & Business Roundtable (2011) Global Effective Tax Rates, April 14. The average in the Business Roundtable paper excludes the United States; the average in this paper includes the US.
- 34 Source: <http://www.pwc.com/gx/en/services/tax/paying-taxes-2016/comparative-modeller.html>  
The World Bank report was written in conjunction with PriceWaterhouse Coopers.
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- 39 OECD (2010) *Tax Policy Reform and Economic Growth*, OECD Tax Policy Studies No 20.
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- 43 The Heritage Foundation Index of Economic Freedom, available from: <http://www.heritage.org/index/>
- 44 Productivity Commission (2016) *Regulation of Agriculture*, Draft Report, p460.
- 45 Kouparitsas et al (2016) Analysis of the long term effects of a company tax cut.
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- 48 Independent Economics (2016) Company tax scenario; KPMG Economics (2016) Modelling the macroeconomic impact of lowering the company tax rate in Australia, report to the Treasury. A table comparing the results of the three models is in Table 3 in The Treasury (2016) Economy-wide modelling for the 2016-17 Budget, 3 May.
- 49 Box 12.1 of Productivity Commission (2016) *Regulation of Agriculture*.
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- 51 Australian Bureau of Statistics (2015) *Australian System of National Accounts, 2014-15*, Cat No 5204; and 2016-17 Budget.
- 52 NAB Group Economics (2016) "The Mining 'Cliff': How far have we come?", 10 June.
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- 64 Ben Potter (2016) "Company tax canned shift to Sydney, Catcha Group's Patrick Grove says", *Australian Financial Review*, 9 June.
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- 67 Kouparitsas et al (2016), p13.
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- 69 For example, Richardson (2016) and Richardson (2015), see citations in endnote 16.
- 70 To generate a weighted average valuation on credits by all investors of 50%, this means the valuation on Australian investors alone is  $0.5/(1-0.207)$  or 63%.
- 71 The foreign ownership of Australian shares is 20.7%, according to Kouparitsas et al (2016), p34.
- 72 While this is not stated explicitly, the modelling likely does include the indirect (second round) effect of the tax cut on Australian investment, through two channels: firstly, the lower pre-tax rate of return in the long run (see Figure 10) means Australian investors have a lower post-tax rate of return (as Australians are assumed to pay personal tax only and not company tax), and will therefore reduce their local investment; secondly, the larger economy means Australian households and businesses will have more funds to invest. These two effects will offset to some extent.
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- 91 OECD (2010) Tax and economic growth.
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- 111 Source: HM Revenue & Customs Statistics, for 2011 and 2016, available from: <https://www.gov.uk/government/collections/analyses-of-corporation-tax-receipts-and-liabilities>  
Note that, all else being equal, we would expect the proportion of the tax bill above a fixed pound (or dollar) threshold to go up over time, not down, because of inflation and growth in GDP.
- 112 Source: OECD Revenue Statistics.
- 113 US Internal Revenue Service SOI Tax Stats – Corporation Data by Size, available from: <https://www.irs.gov/uac/soi-tax-stats-corporation-data-by-size>  
Historical US corporate tax rate: <http://www.taxpolicycenter.org/statistics/corporate-top-tax-rate-and-bracket>
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- 115 Jeffrey Zients, Seth Hanlon (2016) "The Corporate Inversions Tax Loophole: What You Need to Know", Whitehouse blog, 8 April.
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## Michael Potter

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