



title
Econ3x3

url
www.econ3x3.org

A web forum for accessible policy-relevant research and expert commentaries on unemployment and employment, income distribution and inclusive growth in South Africa

publisher
Downloads from this web forum are for private, non-commercial use only.
Consult the *copyright and media usage guidelines* on www.econ3x3.org

headerOrFooter
September 2018

Title
heading
The top 1% of incomes are increasing rapidly even with low economic growth

Universities and Publishers
authors
Ihsaan Bassier, University of Cape Town and **Ingrid Woolard**, Stellenbosch University

We use tax data (which include accurate data for the very rich) to investigate the patterns of income growth over the period 2003 to 2016. Despite the need for inclusive economic growth in the light of extreme inequality, the top 5% of incomes grew at about 5% per year compared to national income growth of 3.7% per year. This divergence is striking in the post-recession period and appears to be partially driven by high growth in income from capital.

Headline
heading
Introduction

Content
The work of Thomas Piketty (2013) and others has highlighted the alarming increase in the income share of the richest 1% of people in countries ranging from the USA to India. Policymakers in South Africa have long sought to promote 'inclusive growth' to address unemployment, economic inequality, poverty and economic exclusion. This article reports new findings on income inequality, in particular the incomes of those at the very top of the income distribution – something not possible before (see [Bassier & Woolard 2018](#)).

Headline
heading
Measuring income equality: new data

Content
Regarding research on the highest incomes, Milanovic (2014) notes that '[h]ousehold surveys, which for decades were the bread-and-butter of economists working on inequality ... were shown wanting as they failed to fully capture this new phenomenon: the ineluctable rise of the top... and the stagnation of everybody else'. South Africa is no exception. Despite ample empirical evidence that South Africa has one of the most unequal income distributions in the world, the conventional use of household survey data – such as StatsSA's Living Conditions Survey, or the NIDS (the [National Income Dynamics Study](#), collected by [SALDRU](#) on behalf of

Content

the Department of Planning, Monitoring & Evaluation) – provide an incomplete picture of the incomes of the top groups of income earners. This is for three reasons. One: being very rich is rare, so sample surveys will not necessarily select the very rich. Two: the very rich are less likely than others to participate in household surveys. Three: the very rich may be reticent to reveal the true extent of their incomes.

Tax information captures reported earnings and all kinds of income of taxpayers up to the highest level much more accurately. Therefore, tax data provide a much better view of the distribution of income at higher levels of income in particular (for more detail on the data, see [Bassier & Woolard 2018](#)). In addition to publicly-available annual tax tables released by SARS, we use confidential, anonymised, assessed tax records to estimate the level and growth of the incomes of the richest in South Africa. These records were made available on a confidential basis to selected researchers in the REDI3x3 project.

Here we do not consider the Gini coefficient, which is a measure of inequality in the overall income distribution. Rather, we focus on income shares in order to show the relative position of the top end of the income distribution. All calculations are in terms of real income in 2016, i.e. adjusted for inflation.

Headline heading

Top incomes have diverged from the rest . . .

Content table

Table 1 shows, first, how the top portions of the adult population in 2016, about 35 million people, are distributed in terms of their taxable incomes. The 95th percentile indicates the income level at which the top 5% highest-income individuals begins and their cumulative share of Gross National Income (GNI).¹ For example, row 1 shows that, at annual incomes of about R300 000 and higher, the top 5% of individuals earned 27.4% of GNI.

If, for example, one cuts this down to the top 1%, who have incomes of about R780 000 and higher, we see that their share of GNI is 12.6%. The richest 0.01% of people (about 3 500 people) had an annual income of over R7 million each; their combined share of GNI was 1.2%, which is over a hundred times their share of the population. The relatively large income shares of such small percentages of the total adult population captures, in stark terms, the extent of income inequality.

Footnote

¹ Gross national income is gross domestic product (GDP) plus any net income received from abroad. We use GNI instead of GDP given that all income (including that received from abroad) is taxable.

Content

Table 1: Top percentile shares and incomes in 2016

figure Percentile	figure Threshold income	figure Share of GNI (%)	figure Annual growth 2003–2016 (%)
small 95	figure R309 917	figure 27.4	small 5.1
small 99	figure R777 820	figure 12.6	small 4.4
small 99.9	small R2 288 927	small 3.9	small 4.4
small 99.99	small R7 230 804	small 1.2	small 4.8

ImageDescription

Notes: Incomes adjusted to 2016 Rands. The 95th percentile uses 2014 data.
Source: Bassier and Woolard (2018)

Content

A second issue concerns how this inequality has changed in the past decade or so. The annual income growth rates for the entire period from 2003 to 2016 are shown in the last column of Table 1. For all the top percentiles the growth rate of income was around 5% per year. In comparison, the annual growth rate of Gross National Income for the same period was about 3.7%. Thus the top income groups' income growth was significantly higher than the national average.

Headline

... notably in a recent period of low economic growth

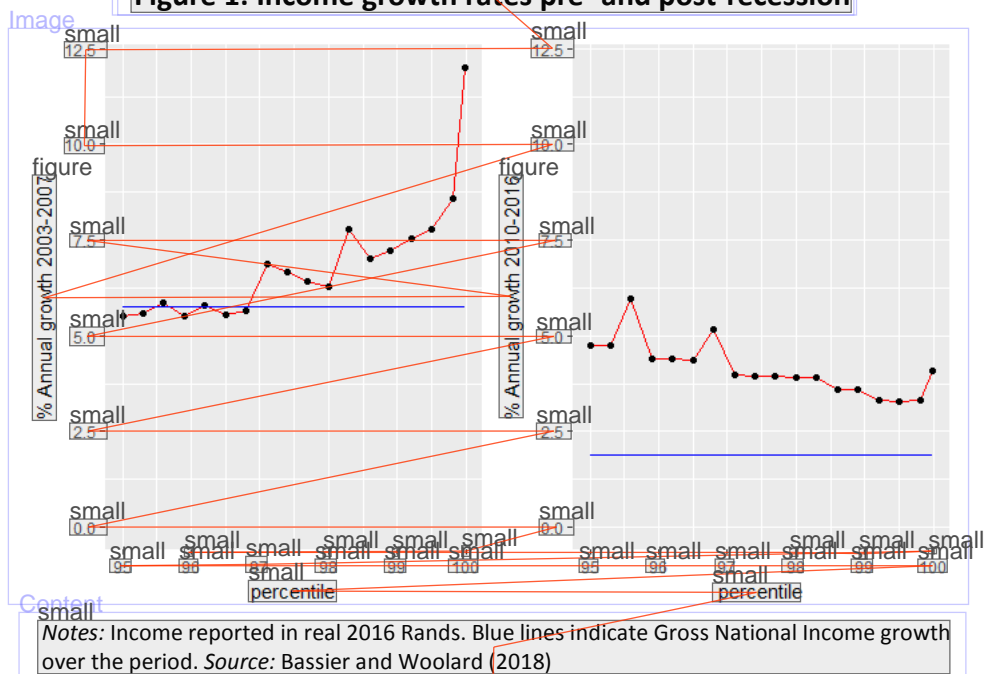
Content

Additional insight is gained when one differentiates between the period 2003–2007 (up to the recession of 2008–09) and the period after the recession, i.e. 2010–2016.

imageDescription

Figure 1 shows the cross-sectional growth rates of the income of people at each percentile for these periods. The blue line shows the average growth rate of national income (GNI) in each period. The left-hand graph shows that growth for the 95–98th percentiles was similar to the average national growth of 5.7% (blue line) in the high-growth upswing before the recession of 2008–09, but that the incomes of the very richest grew much faster. After the recession, when the economy (as measured by GNI) was growing much more slowly at an average of 1.9%, the incomes of the top earners grew more than twice as much as the GNI rate of growth.

Figure 1: Income growth rates pre- and post-recession



How does the income growth of the top earners compare with that of the rest of the people?

We use StatsSA's quarterly labour-force survey (QLFS) data from the Post-Apartheid Labour Market Series (2017) to estimate the income growth rates for the rest of the adult population. (We cannot use tax data for the entire distribution since only individuals above the filing threshold of R350 000 are obliged to submit a tax return.) Figure 2 shows a combined graph with growth rates from both survey and tax data, for the period 2003-2015. The solid line shows the average growth rate of GNI over the period. About 60% of adults have remained on zero labour-market income. The lowest incomes grew substantially, driven by gains off a low base. For example, the 60th percentile earned about R400 per month in 2003, followed by growth at an annual rate of 6%. The bulk of incomes across the distribution saw change of between 1% and 2% only – compared to the top end of the distribution which have income growth rates of about 5%, as noted above.

As a result, over the 12 years, the median income from working in the labour market grew by only 20% while the top 1% of income doubled.² This seems to indicate that economic growth in South Africa in the period 2003–2015 has not been inclusive (also see [Fourie 2014](#) on *Econ3x3*).

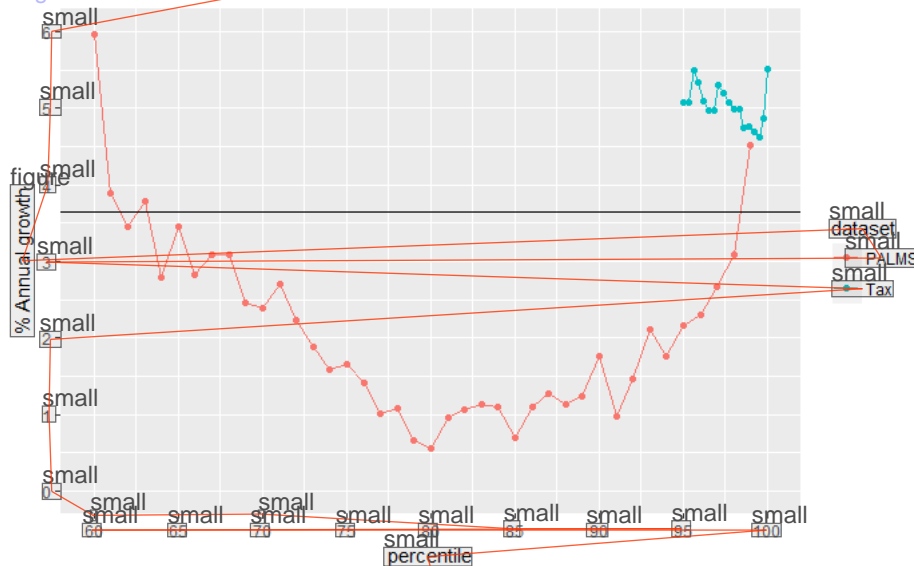
²The top 1% income includes income from sources outside the labour market, such as returns on investments. Note that, in any case, non-labour market income is negligible for the median worker.

Figure 2

Figure 2: Income growth rates 2003–2015 from

combined survey and tax data

Figure 2



Source: Bassier and Woolard (2018)

Notes: The large difference between the estimated growth rates from the 95th percentile for the survey data (red) compared to the tax data (blue) is partly because the survey data only capture labour market income, while the tax data include profits and other capital income. Figure 5 in Bassier & Woolard (2018) shows that the income growth in the QLFS survey is much lower for the top of the distribution than in the tax data, consistent with higher growth of income from capital sources.

Content

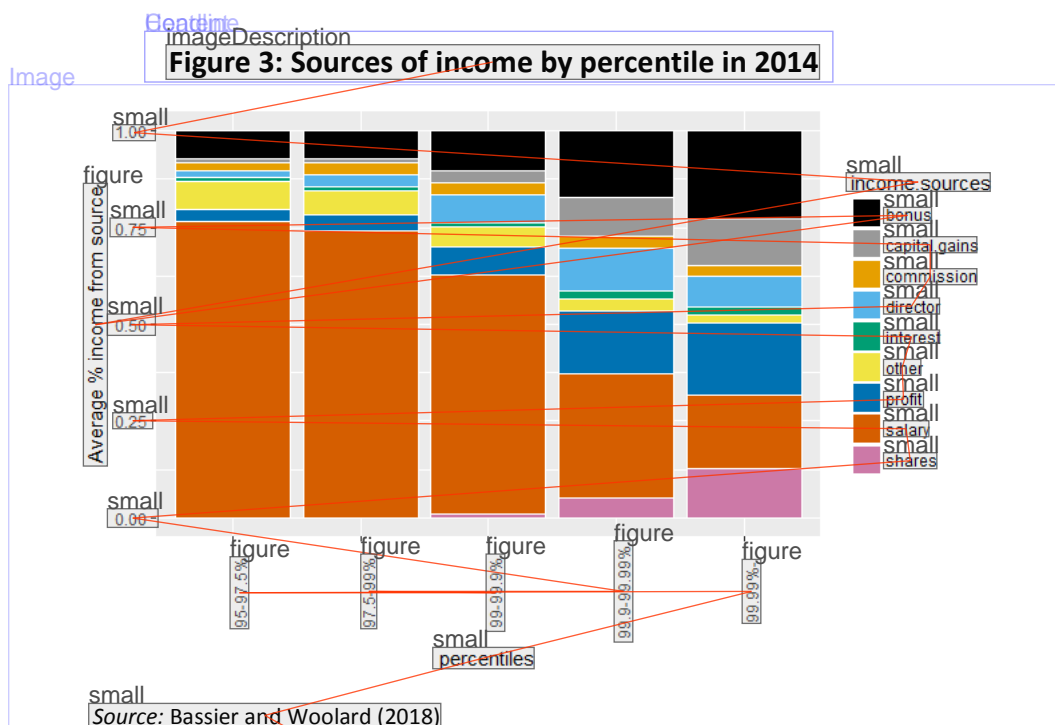
Who are the winners and losers of this growth pattern? First, the survey data show that those with the lowest income growth (at the bottom of the U-shape), i.e. the 75th to 90th percentiles, were earning between R3 350 and R10 800 per month in 2014. Secondly, whites are significantly over-represented in the fast-growing top percentiles, making up 43% of the richest 5% of adults compared to 8% of the full population.

Headline

The income profile of those at the top of the distribution of income

Content

Using confidential tax data from SARS, we can uncover the composition of the top incomes. Figure 3 shows the average amounts from income sources by percentile in 2014.



The first two bars show that until the 99th percentile, salaries and bonuses comprise over 80% of income for earners. For the top 1%, income from salaries and bonuses still make up 50% of all income, but income from shares, profit and capital gains contributes relatively more – and increasingly so for the top 0.1% and 0.01%.

To what extent is top income growth due to the newly rich?

The tax data analysed so far covers the incomes of all taxpayers in each tax year. This group changes over time as new income earners start paying tax and others stop (e.g. due to death). Thus the data do not show how the income of particular individuals grew. However, the public tax tables from SARS provide some information on a selected panel of the same taxpayers over time that were tracked from 2005 to 2014.

Interestingly, the income of taxpayers who were already in the top 1% in 2005 grew much less than the income of all top-income taxpayers together (analysed above): the average growth rate of income over the ten years for the panel was 1.4% compared to 3.8% for all taxpayers in the top group. This may imply that the rapid income growth in the top group has primarily been driven by the growth in the incomes of new entrants (including young professionals) to the top income levels, i.e. the ‘newly rich’.

Headline
heading

Why did top incomes grow so rapidly?

Content

One clue is the high growth of income from capital among the top percentiles. While the economy grew by almost 4% on average per year between 2003 and 2015, income from share options grew at an astonishing 10–15% for the richest 5%. Between 2011 and 2014 alone, the tax data show that income from capital³ grew annually by 10–20% for this group. Indeed, the Johannesburg Stock Exchange All Share Index gave average annual real returns of 9% between 2010 and 2015.⁴

However, the labour-market income of those in the top percentiles also grew faster than the GNI. Atkinson and Piketty (2010:700) note global trends which have increased the incomes at the top of the labour market. These include the increased rewards for the top percentiles that result from globalisation, skills-biased technical change, and ‘winner-take-all’ pay-off structures in which a handful of ‘superstar’ individuals reap huge rewards even if they’re only slightly better at what they do than those just below the top.

Headline
heading

Concluding thoughts

Content

We present new evidence of alarmingly high growth in the incomes of the top percentiles – more than twice the growth rate of national income. First, this establishes that growth has not been inclusive. The gap between the stagnant middle and the prosperous top earners widened, and this continued after the 2008 recession. Secondly, the divergence appears to be partly driven by high returns to capital. This relates to Piketty’s argument that, if the ownership and use of capital are insufficiently regulated, productive labour is discouraged while rent-seeking and political instability are encouraged. Indeed, there may be a relationship between the trends recorded in this paper and the apparent occurrence of ‘state capture’ in recent years.

High growth rates of income from capital are likely to be closely related to high levels of wealth (and thus wealth inequality). We suggest that, similar to the situation in top incomes, wealth has been severely underestimated (for new research on this, see Orthofer 2016 on *Econ3x3*). For example, while Credit Suisse (2016) estimates there are 45 000 dollar millionaires in South Africa, back-of-the-envelope calculations suggest there may be as many

Footnote

³ Specifically, income from: shares, interest, capital gains, profits broadly associated with capital (e.g. royalties, rent), and lump sums (e.g. pension, benefits).

⁴ FTSE Russel Factsheet (2018). FTSE/JSE All-Share Index. Available:

<https://www.ftse.com/Analytics/Factsheets/temp/7eece384-52ac-4961-90de-61149cd91c30.pdf>

Content

as 182 000 dollar millionaires in the country.⁵ The legacies and structures of the historical wealth distribution, designed under colonialism and apartheid to benefit a small white elite to the exclusion of the black majority, remain deeply relevant for South Africa's economic growth trajectories.

Headline

references

References

References

Atkinson A & Piketty T (2010). *Top incomes: A global perspective*. Oxford University Press.

Bassier I & Woolard I (2018). *Exclusive growth: Rapidly increasing top incomes amidst low national growth in South Africa*. REDI3x3 Working Paper.

references

Kerr A, Lam D & Wittenberg M (2017). *Post-apartheid labour market series* [dataset]. Version 3.2. Cape Town: DataFirst [producer and distributor], 2017.

references

Milanovic, B (2014). *The return of 'patrimonial capitalism': Review of Thomas Piketty's Capital in the 21st century*. World Bank Policy Research Working Paper No. 6974.

Piketty T (2013) *Capital in the 21st century*. Harvard University Press

Footnote

⁵ Using SARS tax tables, the top 0.5% have an income threshold of R1,061,478. Using NIDS wave 4, the top 0.5% have a wealth to income ratio of at least 12. An exchange rate of R13 to the dollar implies that the top 0.5% of adults are all dollar-millionaires. This corresponds to 182,000 people.