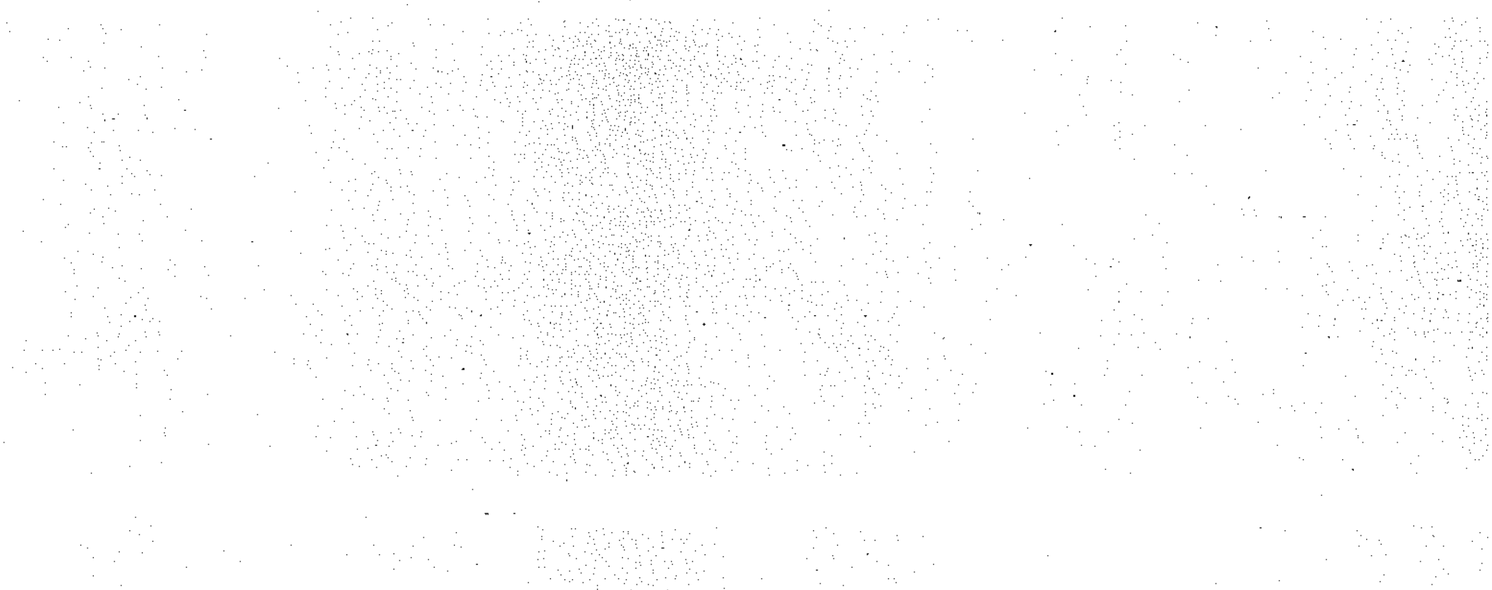
PROGRESS

SHARING THE EARTH SO ALL MAY PROSPER

Total Resource Rents of Australia

Harnessing the Power of Monopoly



PROGRESS

Winter 2013
Number 1109
First published 1904

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Publisher
Prosper Australia Inc.

Cover Design
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PROGRESS is the journal of
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Land Values Research Group

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PROGRESS is supported by a grant from the Henry George Foundation of Australia.
www.hgfa.org.au

Printed by The Print Press
(03) 9569 4412
printpress@bigpond.com
Printed on recycled paper with soy based inks

Our mission is to replace all existing taxes with an annual charge on government granted privileges and natural resources, including land.

Editor's Note

Welcome to a special edition of Progress Magazine - celebrating 109 years in publication with the *Total Resource Rents of Australia report*. Based on the seminal work of Tony O'Brien, this document offers a blueprint for how the economic rents of Australia's common wealth can finance all three levels of government.

As you will read, mainstream economists do not believe the naturally rising value of the earth is capable of such a feat. The power of monopoly is the defining thread for much of today's economic concern. Add the findings of this report to your policy toolbox as we forge toward a new economic era.

About

Prosper Australia is a Melbourne based organisation seeking to advance economic efficiency and social justice through tax reform and education. Along with its partner organisations Earthsharing Australia and the Land Values Research Group (LVRG), it is at the forefront of advocating ideas and policies based upon the work of the U.S. classical economist Henry George (1839-1897), who believed poverty and social disorder stems from the misuse of the third factor of production, land. By advocating the capture of the economic rents from natural resources and licensed monopolies, Prosper Australia promotes the elimination of behaviour-distorting taxes on capital and labour.

The Author

Karl Fitzgerald is the Project Coordinator of Prosper Australia. His major work over the last few years was the documentary Real Estate 4 Ransom. Karl also runs the weekly Renegade Economists radio show. He is the driving force behind the Speculative Vacancy reports started in 2007. He holds a B.Ec from Monash University.

Acknowledgements

Such an extensive range of topics requires considerable assistance. For this David Collyer and Philip Soos must be thanked, alongside Bryan Kavanagh, Dr Gavin Putland, Jess Wright, Alex Stott and Ana Maria Rodrigues.

This report is an update of the late Tony O'Brien's *Total Resource Rents of Australia* (1999). [1]

1 www.earthsharing.org.au/facts-and-figures/australias-resource-yield-2000/

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PART I - Overview

Executive Summary

This report finds:

- Economic rents are a significant component of the Australian economy - 23.5% of GDP.
- 90% of taxes are distortionary, adding 23% to prices of goods and services
- Income, company and sales taxes, along with 122 present taxes should be scrapped
- Those with monopoly rights should face higher tax burdens than risk-taking entrepreneurs
- Almost half of all government revenues could be gained by diverting privatised property bubble land rents for public purposes
- Efficiency dividends of $66 billion could be delivered to the economy by removing deadweight costs
- Low income earners to benefit from lower housing prices and increased demand for labour
- Small business would rapidly expand due to less paperwork, lower commercial rents, reduced monopoly power and greater discretionary incomes
- The mining industry to pay 10.5% of government revenue for the privileges granted in accessing the common wealth
- Fishing licenses, largely given out for free, to be charged a yearly license fee based on the value of fish multiplied by their volume; this principle to apply to all natural monopolies
- Monopolies to be targeted in recognition of the negative economic outcomes they deliver i.e. DNA and seed patents, satellite orbits
- The growing water trading market to pay a yearly license fee, as are other industries where resource privatisation has granted super profits
- Carbon Taxes should be tripled to replace excise duties on fuel and diesel, placing the burden at source
- The rural sector to face a lower tax burden, encouraging decentralisation
- Democratic reform: a radical downsizing in campaign contributions due to a licensing agreement with public airwaves owners allowing free advertising time for political parties
- The ability to finance infrastructure at lowest cost. The heavy fixed investment costs to be financed by property owners according to the benefits they enjoy, effectively repaying State Government bonds over 20 years
- Tax havens and tax loopholes to be dramatically curtailed
- The need for public awareness of new forms of monopoly where super profits can be had with little risk or effort e.g cyber squatting

Assumptions

- Conservative assessments have been adopted
- 2011 – 12 figures used where possible. Figures accounting for inflation were not used.
- Percentages assessed in Table 1 vary according to risk, reward and certainty.
- This is a static analysis; transitional issues are not covered.

Total Resource Rents

In an age of privatisation and increasing inequity, monopoly privilege should be investigated for its capacity as a taxation base. The efficiency outcomes are important to all taxpayers.

The *Total Resource Rents of Australia report* finds that monopoly rents are capable of replacing taxation at all levels of government. In 2011–12, local, state and federal governments required $390.067 billion in operating revenue.[2] The most efficient form of government revenue raising, the taxation of economic rents, can raise 87% ($339,268 million) of revenue needed. By including "sin taxes" and non taxation revenue, a fairer, more equitable tax base is possible.

Monopoly rents can finance government:

Item	Valuation	% of valuation	Raised $m	Sources
Land – Residential	2,794,800	5.5%	153,714	ABS 5204061
Land – Commercial	338,500	6.5%	22,002	ABS 5204061
Land – Rural	237,330	5.5%	13,053	ABS 5204061
Land – Other	287,100	5.5%	15,791	ABS 5204061
Subsoil Minerals – MRRT	67,359 +14.637	40%	32,813	EBITDAX BHP, Rio, Xstrata + div
Oil and Gas – PRRT	20,229	40%	8,092	EBITDAX ABS 8155
Water Rights	50,000	2.6%	1,300	estimate
Taxi Licenses	25,000 p.a	14,402*	360	* Number of licenses
Airports	1,919	40%	765	EBITDA
Utilities	220,000	10%	22,000	EBITDA
Fishing	2,100	40%	840	ABS 1301
Forestry	1,800	2.7%	50	DAFF 2010/11
Gambling	18,450	40%	7,380	Aus Gambling Stats 28th edition
EMS	10,560	20%	2,122	4G spectrum + rest of spectrum
Satellite Orbit Rights	5,100	10%	510	Space Foundation revenue
Internet Infrastructure	64,500	10%	6,450	NBN + estimate
Domain Name Registration License	100	3 million *	300	* 3 million domain names
Banking Licenses	43,427	40%	17,371	Cash basis + dividends
Corporate Commons fee	1,382,000	2%	27,640	ASX market capitalisation
Patents	12,980	0.005%	65	ABS 5310.0.55.002 (indicative)
Parking fees	estimate		250	based on MCC revenue
Public Transport	estimate		2,400	based on MTR EBITDA
Liquor Licenses			4,000	11-12 govt revenues
Vehicle rego, licenses	Govt budget		5,294	ABS 5506
Sin Taxes - Tobacco, Alcohol			12,510	11-12 govt revenues
Carbon Taxes	4,020 +14,200		18,220	Added fuel excise taxes
Non Tax Revenue (Sale of goods)	20,323	50%	10,162	11-12 govt revenues
TOTAL			385,454	$4,613 MILLION DEFICIT

Table 1

2 http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/5512.02011-12?OpenDocument

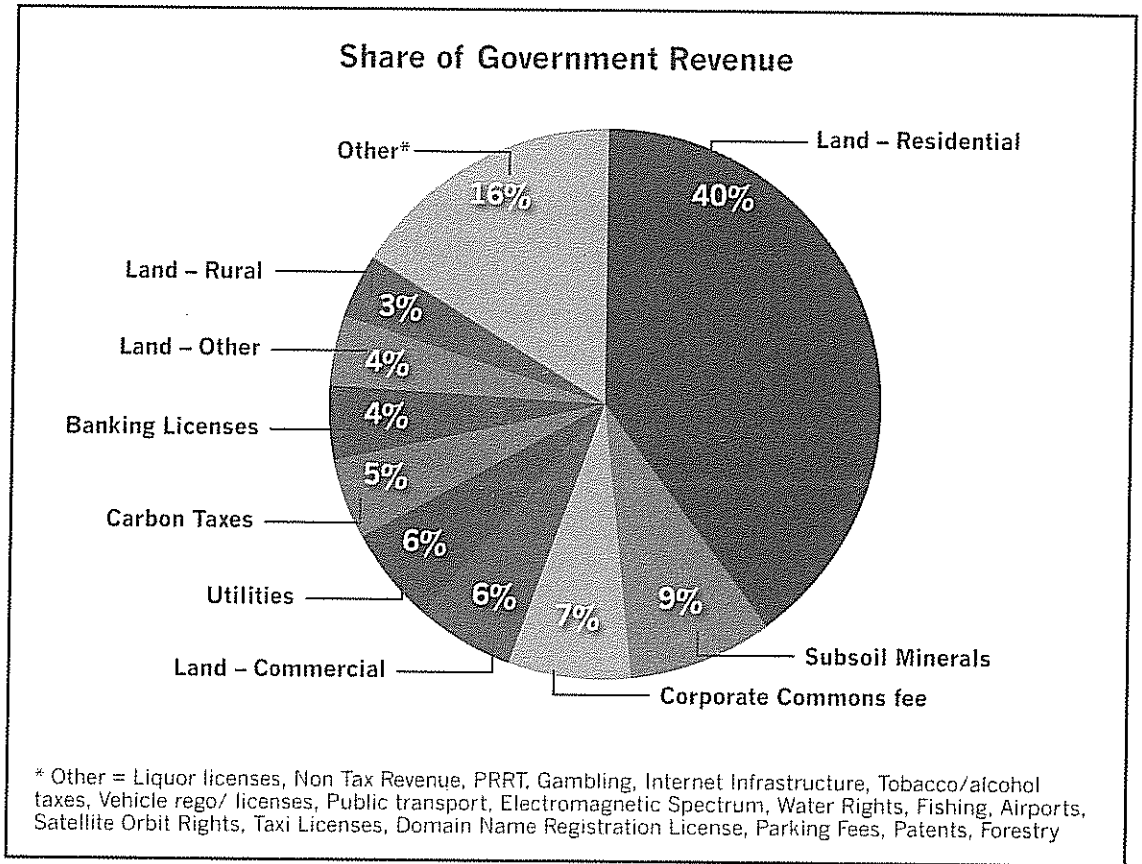

Figure 1

The Need for Tax Reform

Thousands of pages of tax legislation can be questioned in light of recent controversies with Apple, Google and Starbucks structuring their tax affairs according to legalised loopholes.[3] The most recent ATO figures find that 70 Australian millionaires paid their accountants $33 million to massage their incomes down to avoid paying any tax.[4] [5]

In today's world of high capital mobility, more economists are discussing the need to move from mobile to fixed tax bases, where such manipulation is not possible. However, economists in the modern era have consistently disputed the magnitude of economic rents as a significant taxation revenue source.

This report demonstrates the possible revenues available from such a shift and gives a brief overview of potential outcomes. A background is provided to economic rents as each budgetary line item is tracked to explain how revenues could be calculated.

The findings are of immense importance. The taxation of productive labour and industry can legitimately be replaced by a more efficient and equitable system. The privileges enjoyed by monopoly can comfortably finance government at all three levels with significant efficiency and equity outcomes beneficial to all Australians.

3 http://theconversation.edu.au/digital-disruption-is-eroding-australias-tax-base-11061

4 http://www.ato.gov.au/content/00345977.htm?headline=taxstats&segment=home

5 http://www.theage.com.au/business/millionaires-snub-taxman-20130506-2j3pr.html

Monopoly Power

Monopolistic behaviour delivers less product at a higher price. Consumers lose out due to the loss of discretionary income. Additionally, fewer consumers are able to enjoy the product. The combination of these factors is known as a deadweight loss.

The above-average profits monopolists obtain are called economic rents. Monopoly can be either natural or legislated. Economic rents are the profits delivered over and above the normal profit required to bring a product into supply. Natural resources are a gift to all and claim a unique place in any discussion about monopoly. In particular, land costs nothing to bring into production. Any land price above zero reflects an economic rent.

Traditionally, economists have been wary of monopoly power. Monopoly should be abolished wherever possible. Natural monopolies run for the public benefit should not be permitted to be run as private profit centres. However, in an age of corporate influence, privatisation and tax loopholes, the pursuit of easy profit (rent seeking) has blossomed.

The trend in private rent-seeking, though distortionary in economic terms, has developed due to the often hidden nature of unearned incomes.

> "Economic rent taken by landlords, monopolists, and financial institutions has no counterpart in the technological requirements of production, but stems from legal and historical privileges that privatize the free gifts of nature or permit monopolistic power to charge access fees over cost for the use of basic infrastructure. (Classical economist) Patten believed that economies should minimize the cost of living and doing business by becoming as rent-free as possible .... at least taxing land, mining, and other natural resources, and regulating prices to minimize unnecessary rentier charges."[6] (Michael Hudson, 2010)

The value of economic rents has been quantified in Vermont, USA.

> "In terms of its resources, Vermont resembles an economic colony more than a sovereign state. Our major minerals are owned by a foreign corporation, our groundwater is exported by out of state bottling companies, our hydropower resources are owned by TransCanada, and 82% of surface-water withdrawals in Vermont are used by Vermont Yankee for cooling water. The federal government has given away 98% of our "public airwaves" for free, and allows private banks to create 93% of the currency with interest attached. Meanwhile, citizens and businesses are subject to taxation of earned income, which impacts job creation and economic productivity, while resource owners collect massive amounts of unearned income."[7] (G Flomenhoft, 2008)

Winston Churchill quipped that 'Land is the mother of all monopolies'.[8] The economic rents of Australia's land markets are considerable, capitalising to $3.68 trillion (2011 -12).[9] Some say oil is the world's largest market. The total market capitalisation of the Australian Stock

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6 http://michael-hudson.com/2011/10/simon-patten-on-public-infrastructure-and-economic-rent-capture/

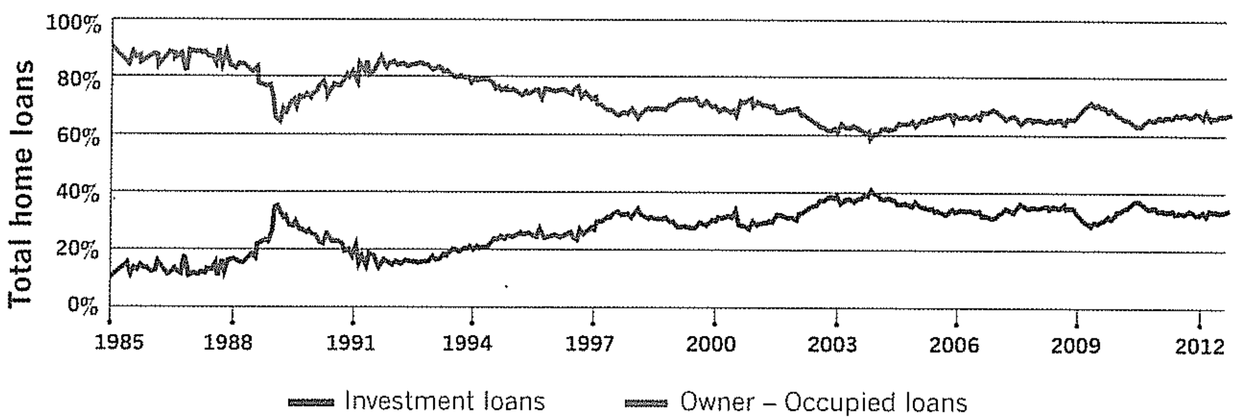
7 Valuing Common Assets for Public Finance in Vermont, Gary Flomenhoft et al, 2008

8 http://www.landvaluetax.org/current-affairs-comment/winston-churchill-said-it-all-better-then-we-can.html

9 Table 61, http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/5204.02010-11?OpenDocument#Publications

exchange, *including* oil companies, is about $1.382 trillion. The land market is nearly triple this - re-iterating why it is so important to get right. Land effects every part of the economy.

Property investors in Australia have some of the most significant incentives and subsidies in the western world, assisting investors to triple in proportion in less than 30 years.[10] [11]



Source: Philip Soos & the RBA[12]

Figure 2

Figure 2 shows the crowding out of owner occupiers by investors in the Australian home ownership market. As a percentage of housing related loans, investors jumped from a 12% average (late 80's) to a 34% average over the last decade.[12]

Compounding affordability pressures, ninety two percent of negative gearing investment has been used to buy existing housing rather than building new dwellings.[13] Such a large jump in investment would see greater supply and lower prices in any other market. Additional demand side pressures include the recent capital gains exemption for self-managed super funds buying into real estate for their future pensions. The recent relaxation of regulation for foreign investment in real estate has also exacerbated matters.

As economic theory would predict, record high land prices resulted, with the property juggernaut continuing to defy reality. When more money is spent in a market with a limited supply, prices are destined to rise. Like gravity is to physics, the relationship between supply and demand for land delivers natural advantages to the owners of scarce locations. These windfall profits can be taxed without distorting productive behaviours.

The low taxation of land clearly works to generate excessive private debt. High land prices have acted as a barrier to entry for an entire generation into housing and attendant family formation, a cornerstone of any economic democracy.[14] Young people cannot choose to be born into the housing markets of the 1850s or 1950s: time, of its very nature, means that "a first come, first served" approach to ownership of resources has therefore been biased under the existing economic regime against future generations.

Pressures on society are mounting in a post-permafrost world. The pressures of climate refugees, aging demographics and the desperate need for investment in public transport are

10 http://www.ahuri.edu.au/publications/download/judith_yates_research_paper

11 http://www.aph.gov.au/Parliamentary_Business/Committees/Senate_Committees?url=hsaf_ctte/report/index.htm

12 The RBA data can only be tracked from 1985, courtesy Philip Soos http://www.rba.gov.au/statistics/tables/index.html#money_credit

13 http://www.prosper.org.au/2012/10/04/written-off-negative-gearing-report/

14 http://www.bloomberg.com/news/2013-02-19/china-housing-slaves-helping-property-rebound-mortgages.html

just beginning to mount. Society will need to question more closely the dire economic consequences of property speculation. Small business should recognise that every extra dollar spent on bubble-priced housing is lost to possible customer expenditure.

The easy gains from land speculation was explained by Mark Twain who famously said 'Buy land - they're not making it any more'.[15] Investment in a finite amount of land without public recoupment of land rents is guaranteed to push prices up.[16]

This report finds that some 53% of government revenues could come from the naturally rising value of land. Such a system will immediately deter property speculation, the revenue gains to be used to cut income and company taxes.

Data Sovereignty

A challenge for this report has been the ability to access nationally aggregated asset values. One wonders at whose behest there are no publicly created national valuations for:

- Fishing licenses
- Forestry licenses
- Water trading licenses
- Domain name asset values
- Patents (particularly patent thickets)
- Satellite orbit rents
- The value of public and privatised utilities

A genuine economic democracy needs regular valuations of the common wealth.

Data sovereignty should be the cornerstone of any economic democracy. World Bank Group President Jim Yong Kim is promoting the need for such transparency.[17] US President Obama has also called for greater transparency of publicly collected data. However, the global trend has been to private gatekeeping of data relating to natural resources - in particular for land and property prices.

Prosper Australia recently paid $6,000 for just a 30 year data set on the turnover of residential and commercial property which was once freely available. Their American colleagues can visit the local library to access the data gratis. Many jurisdictions can access the data free online.

A positive development is the Australian Bureau of Statistics' development of the *System of Environmental Accounts*, a UN-sanctioned measure of resource value and usage.[18]

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15 http://thinkexist.com/quotation/buy_land-they-re_not_making_it/173450.html

16 http://www.contactmusic.com/news/hopes-widow-upsets-la-residents-in-land-sale-deal_1069747

17 http://blogs.worldbank.org/voices/world-bank-president-jim-yong-kim-opens-data-conference-in-washington

18 http://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/4628.0.55.001main+features10May+2012

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PART II - Calculation of Economic Rent

The Capabilities of Economic Rent

The naturally increasing value of the earth (and government gazetted monopolies) suggests itself as a logical financing option for government. It is the missing link in economic analysis and must be modelled. Moves in the UK for government modelling of economic rents as a financing vehicle are an encouraging development.[19] For a reform with so much potential, it is a mystery why modelling has not been undertaken previously. Neo-classical doctrine has traditionally dismissed the notion that fixed asset bases are capable of financing government. In essence, they dispute that economic rent plays a significant role in the economy:

> "Rent is one percent of the US income in 2004", *Economics*, Paul Krugman and Robin Wells, Worth Publishers, 2006, p.283.
>
> "... land rent forms such a small percentage of national income: that 2% is nothing compared to the present tax percentages which is around 30", *Income Distribution*, Jan Pen, Pelican, 1974, p.210.
>
> "The percentage [of property rent in the economy] has dropped to well under one percent today", *New Ideas from Dead Economists: an introduction to modern economic thought*, Todd G Buchholz, Plume, 2007, p.86.

The *2013 Total Resource Rents of Australia report* finds that economic rents can raise 87% ($339,886) of the $390 billion currently required to run government. Based on our annual GDP of $1.45 trillion,[20] the economic rent herein calculated constitutes 23.5% of GDP. This is a significant finding and implies that nearly one quarter of the economy is a 'free lunch', delivering higher rates of return for less effort and less risk to owners of natural monopolies.

Revenues can be broken down as:

	% of GDP	% of Govt Revenue
Land Rent	14.1	52.4
Natural Monopolies	6.6	24.6
Resource Rents	2.8	10.5
Sin Taxes	2.1	7.8
Non-Tax Receipts	0.7	2.6
Total	26.3	97.9

Table 2

Table 2 reflects the disparity between the neo-classical claim of rent at only 1 - 2% of GDP to the 23.5% calculated in this report. Natural monopoly rents, covering airports, utilities and fishing licenses for example, account for 6.6% of GDP alone. Resource rents in mining and petroleum account for 2.8% of GDP. Land Rent is 14.1% of the economy, yet rising property

19 http://www.guardian.co.uk/politics/2012/nov/08/land-value-tax

20 http://www.abs.gov.au/AUSSTATS/abs@.nsf/mf/1345.0?opendocument?opendocument

prices are heralded as a productive outcome for the nation. All of these rents drain the productive sector by pushing prices up higher than need be.

Adam Smith wrote in *The Wealth of Nations*:

> "Both ground- rents and the ordinary rent of land are a species of revenue which the owner, in many cases, enjoys without any care or attention of his own. The annual produce of the land and labour of the society, the real wealth and revenue of the great body of the people, might be the same after such a tax as before. Ground-rents, and the ordinary rent of land are, therefore, perhaps the species of revenue which can best bear to have a peculiar tax imposed upon them."[21]

The role of government is to not only raise revenue, but to encourage productive behaviour by the manner in which revenue is raised. Negative outcomes must be discouraged. Accordingly, the 'sin taxes' on carbon, alcohol and tobacco should raise 9.2% of government revenue.

By deterring rent-seeking behaviours, economy-wide efficiencies will be found, as would a reduced need for welfare and taxes on labour and capital.

We are taxing the wrong things, festering problems that require more taxes, which in turn compound the failure of markets.

Government Impetus

Following the Global Financial Crisis, a number of government reports advocated the harnessing of economic rents for the public benefit. The UK's Mirlees Report,[22] the New Zealand Tax Working Group paper[23] and Australia's Henry Tax Review[24] all advocated the taxing of monopoly rents. At the Australian state level, the NSW Lambert Tax Review[25] and the ACT's Quinlan report[26] also call to some extent for economic rent taxation.

The IMF, World Bank and OECD have also released reports along similar lines.[27]

If "asset bubbles are always followed by tears", the pain of ignoring rent seeking can be seen in Japan (Figure 3). Once the economic powerhouse of the East, Japan has lost two decades of growth. This has been mirrored by over 20 years of land price falls following their 1980's property bubble. The slow correction of land prices has ensured the weight of mortgage debt restrains productive and consumptive activities.

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21 http://www.progress.org/banneker/adam.html

22 http://www.ifs.org.uk/mirrleesReview

23 www.victoria.ac.nz/sacl/cagtr/pdf/tax-report-website.pdf

24 http://www.taxreview.treasury.gov.au/Content/Content.aspx?doc=html/home.htm

25 http://www.treasury.nsw.gov.au/__data/assets/pdf_file/0014/21605/NSW_Financial_Audit_Report_Part_2011-_Full_pdf.pdf

26 http://www.treasury.act.gov.au/TaxReview/Index.shtml

27 http://www.ibtimes.com/oecd-northern-europe-raise-your-property-taxes-412038

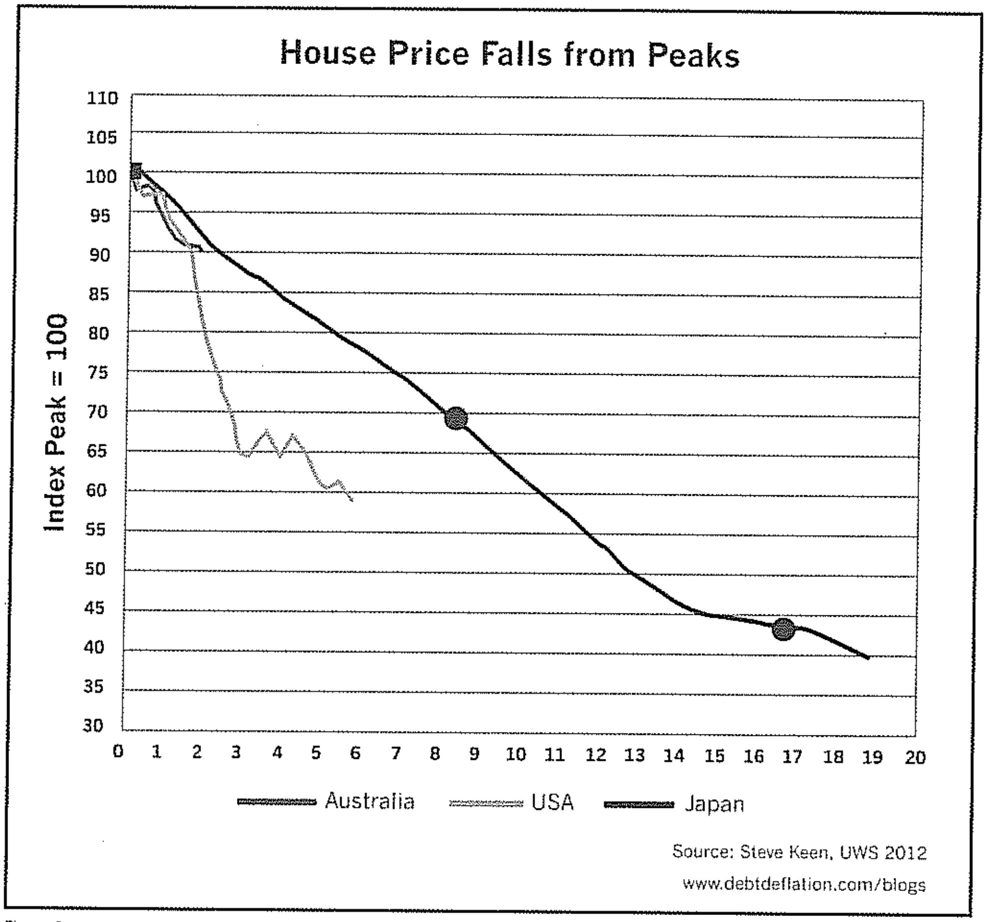

Figure 3

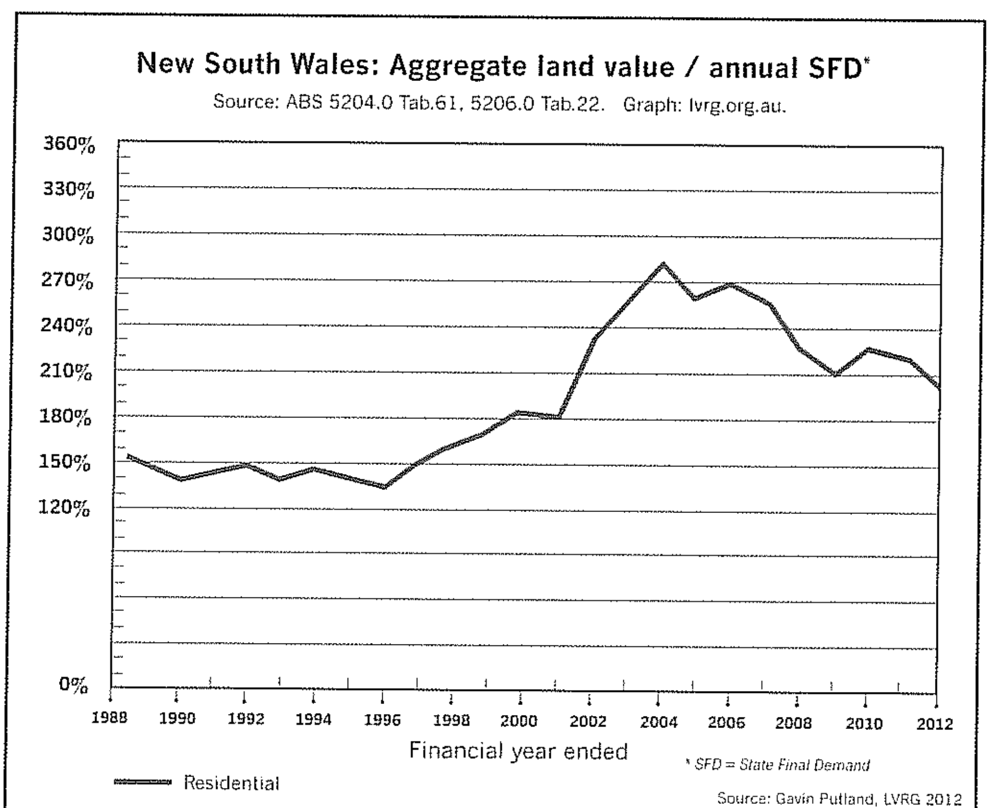

Figure 4

Figure 4 shows New South Wales land prices peaking in 2004. Since then we have seen an orderly fall in land prices to Japan. Unsurprisingly, the NSW economy has acted as a drag on Australia's economic output in recent times.

Similar trends can be seen in the USA. Figure 5 reflects how land prices began falling in the 1st quarter of 2006 and fell until mid 2012.[28]

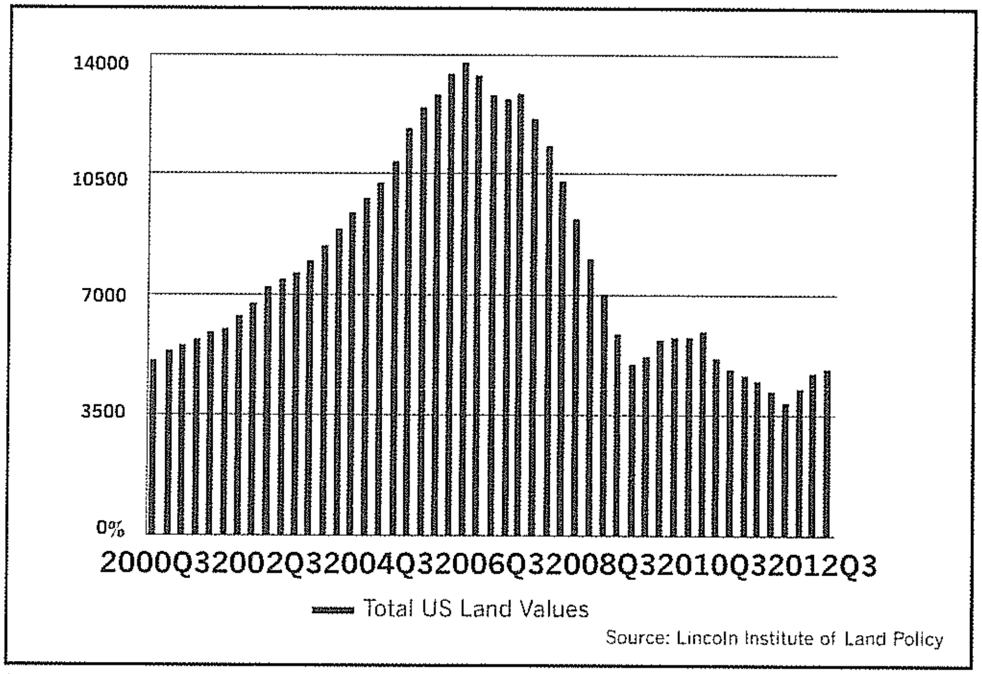

Figure 5

The cost to the US economy is immense:

> "The Flow of Funds report a $13 trillion (15 percent) loss of household wealth between the peak of mid-2007 and March 2009"[29]

The catalyst for the ongoing crisis was falling land prices. As land prices fell, banks had to write down their loan books. The supply of credit shrank. The total economic impact far outweighs the $13 trillion listed above.

Taxation Trends in the EU states:

> "Recurrent taxes on real estate property are considered to be the least detrimental to economic growth given the immobility of the tax base. This reduces the behavioural effects to this type of taxation which in turn minimizes the economic distortions." [30]

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28 http://www.lincolninst.edu/subcenters/land-values/price-and-quantity.asp

29 http://www.brookings.edu/research/papers/2009/11/18-wealth-bosworth

30 http://ec.europa.eu/taxation_customs/resources/documents/taxation/gen_info/economic_analysis/tax_structures/2013/report.pdf p46

However, the global policy response was to increase sales taxes, as demonstrated in the EU:

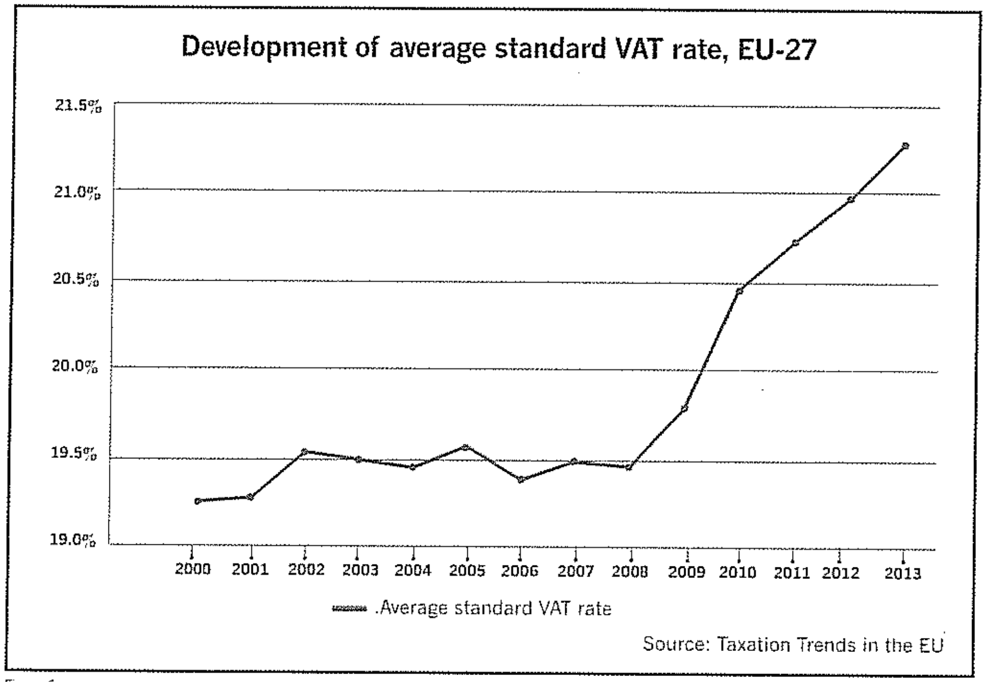

Figure 6

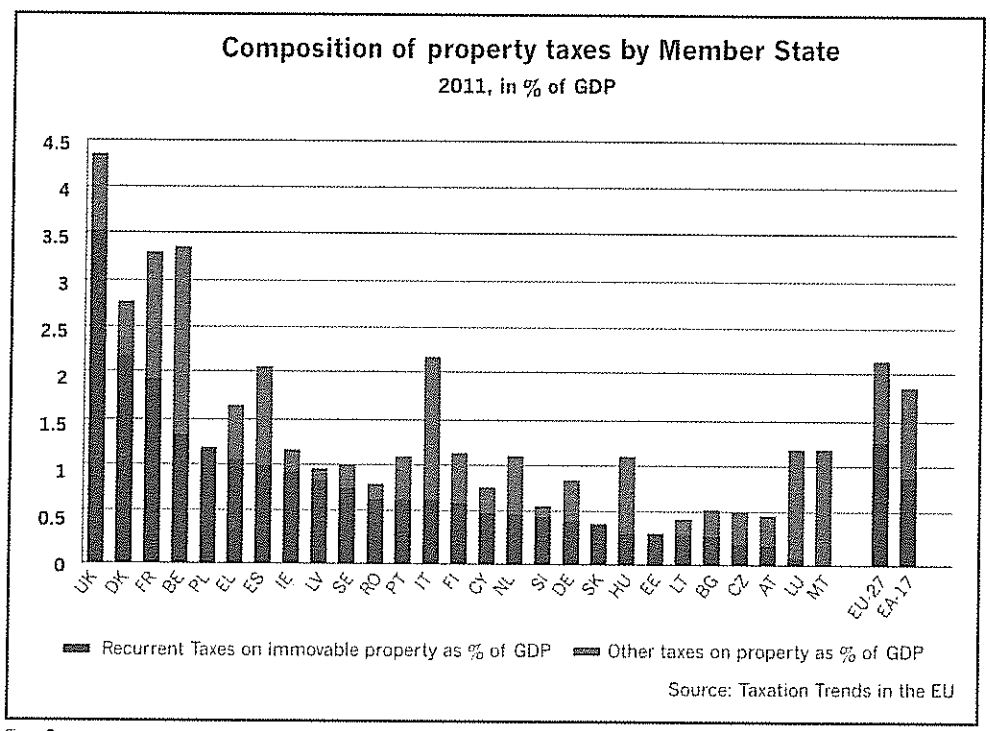

Figure 7

If EU land rents are similar to Australia's 14.1% of GDP, the above graph shows little is being done to counter rent seeking behaviour. Ignoring public capture of land rents allows similar bubbles to re-form. Magnifying the injustice is the regressive nature of sales taxes, set to burden those saving for a house. A 10% sales tax on a $20 shirt is $2. That $2 constitutes more of a low income earners wage than a high income earner - yet there are already calls for extension of the Australian Goods and Services Tax. The failure of public policy to address real estate bubbles has seen austerity policies further slow the global economy, undermining stable incomes for renters to 'buy in' confidently at lower prices.

Efficiency Gains

Harnessing economic rents for the public good offers considerable efficiency gains. Researcher Philip Soos analysed the $390 billion in taxes raised and found an efficiency dividend of some $66.3 billion with such a change. These positive benefits, equating to 17% of total taxation, have not been included in our figures.

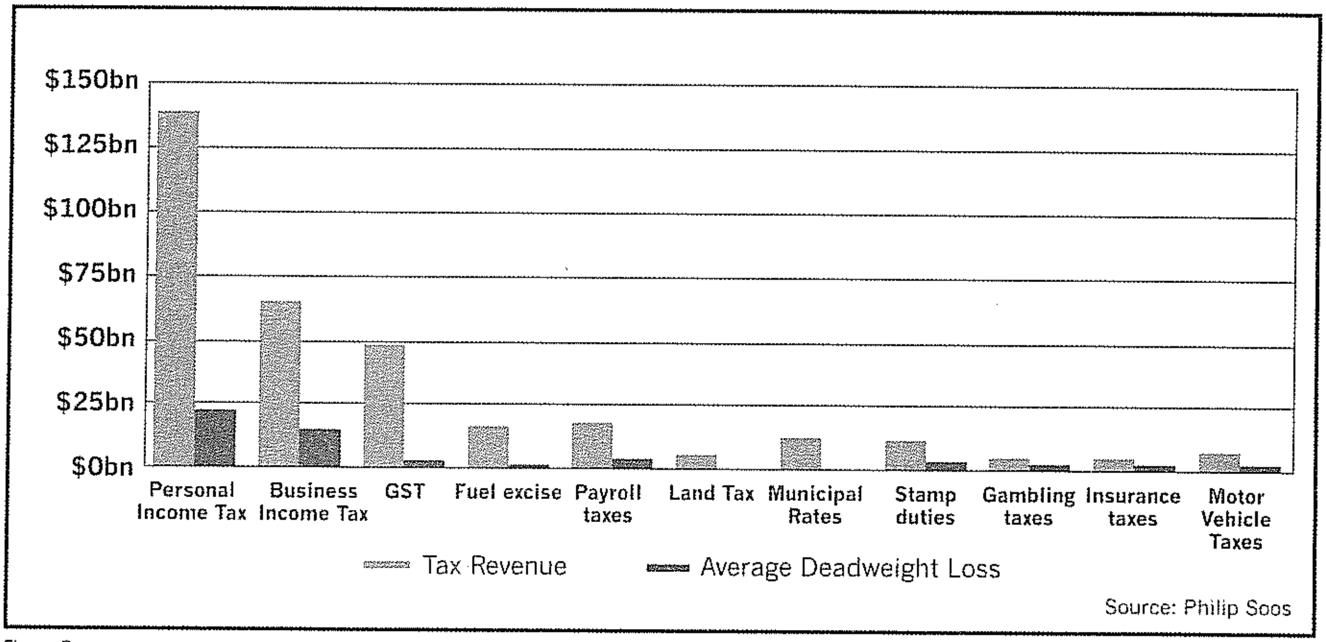

Figure 8

Figure 8 demonstrates how land taxes (and council rates) have the lowest deadweight cost.

Sales taxes are one such deadweight cost, enforcing higher costs and thus lower demand. The 'lost' consumption and productive profit is a deadweight loss.

Replacing Stamp Duty revenues (a sales tax on housing transactions) with a Land Tax delivers an efficiency dividend whilst curbing land speculation. Such a policy switch will assist the movement of labour to more suitable locations according to work and family needs. It will also ensure those who benefit the most from economic rents pay a little more than those who don't.

The Australian Housing and Urban Research Institute (AHURI) states;

> "Economic theory predicts that a broad based land tax is shifted to landowners who receive lower after-tax rents that are in turn capitalised into lower land values. We find that the average plot with a land value of $335,000 (at 2006 prices) will decline by $24,000, or approximately 5 per cent."[31]

Potential buyers will reduce how much they are willing to pay for a house by the expected land tax liabilities over a 20 year period, thereby reducing property prices. Instead, decisions are distorted by cumbersome taxes, like stamp duty, that are passed on in higher prices.[32]

The answer from policy makers following the bursting of the global land bubble in 2007-8 was to increase sales taxes in the UK, France, Portugal, Spain, NZ, Japan and America amongst

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31 AHURI - The spatial and distributional impacts of the Henry Review recommendations on stamp duty and land tax

32 http://www.macrobusiness.com.au/2013/01/developers-go-completely-mad/

others. These are regressive taxes that hurt the average person, whilst doing little to curb the next land bubble.

The Guardian's George Monbiot states:

> "It is altogether remarkable, in these straitened and inequitable times, that land value tax is not at the heart of the current political debate."[33]

Compounding the issue of inequality is that 23% of the cost of goods are made up of layers of taxation passed on down the line of production to the consumer. Sales taxes are a classic example.

That prices constitute 23% of the cost of goods can be calculated by looking at the "major components of total taxation revenue".[34] The components that are not costs of production are:

- taxes on immovable property (6%)
- vehicle taxes (2%)
- gambling taxes (1%)
- "other" (1%)

From this we can deduce that 90% of taxes effect prices and are distortionary.

In the 2010-11 year, taxation accounted for 26% of GDP.[35] Ninety percent of 26% is 23%. Therefore 23% of the economy is distorted by higher prices.

Higher prices lead to less demand, less employment and growth – deadweight costs.

Switching away from stamp duties to land taxes is an important first step to a fairer economic system. This will see those living in better locations pay more for the running of government, as outlined in figure 9 where the wealthier municipalities of Bayside, Boroondara and Stonnington pay more than the poorer Brimbank.

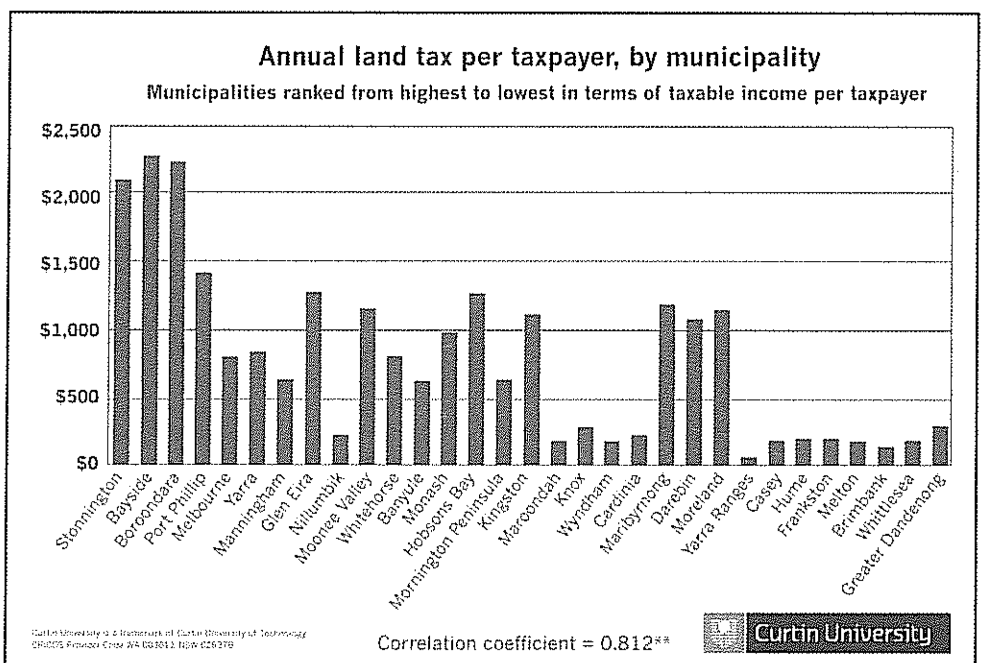

Figure 9

33 http://www.guardian.co.uk/commentisfree/2013/jan/21/i-agree-with-churchill-shirkers-tax/print

34 http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/5506.0Main%20Features32010-11

35 ibid

Classical economists have traditionally seen the rising value of the earth, the economic rent, as the most efficient form of revenue raising. Nobel Prize winners in economics Joseph Stiglitz,[36] William Vickrey, Franco Modigliani, James Tobin and Robert Solow have supported land taxes.[37]

As a revenue raising mechanism, a resource rent system (of which land tax is the most prominent tool) does not distort market prices. The taxes charged cannot be passed on in prices.

Consider the price for iron ore is $120 and a nation implements a 40% resource rent charge. The global price of $120 per tonne ensures that a company will lose market share if they try to pass this tax onto their customers. A resource rent harnesses what would have been easy profits – unearned income that had little to do with productive skill or entrepreneurial activity. The same is true of land tax in the housing market.

Land Rent calculations

The Australian System of National Accounts calculates land values at $3.68 trillion (2011 -12). Land Tax has been set at 5.5%, just below trend growth terms. The ABS calculated gross land rents at $153.3bn (2011-12), which equates to our residential contributions.[38] As seen in Figure 1, the land component is to raise 52.4% of government revenue. Thus land rents account for 14.1% of GDP. At present valuations, the land tax burden will fall as follows:

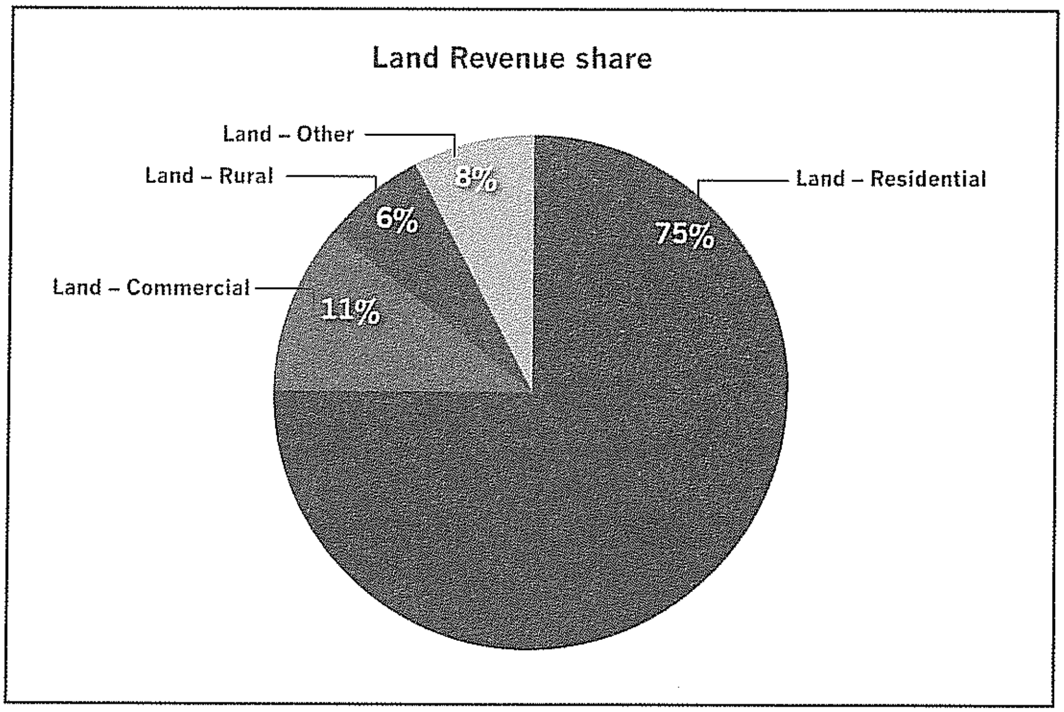

Figure 10

The current land tax exemption on the family home must be removed. This is controversial, but so is the road to massive multi-generational mortgages which now loom on the horizon. Land tax thresholds must also be reformed, such as in Victoria where they are only paid above the $250,000 threshold. In 2001 the threshold was $85,000. As the threshold has been raised

36 The Price of Inequality (2012)

37 http://www.prosper.org.au/2007/11/01/letter-to-gorbachev/

38 http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/5204.02011-12?OpenDocument , Table 49

over the last decade, so has the price of land - as economic theory would predict. Queensland has a $600,000 threshold, effectively eradicating land tax as an affordability tool.[39]

Of great interest will be the reaction of property owners holding 'speculative vacancies'. For the last 5 years Earthsharing Australia has quantified the number of vacant properties in Melbourne with an innovative water consumption proxy for vacancy.[40] This measure quantifies the utility of all residential properties, expanding on the subset of rental properties that the media references for vacancy. This outcome substantiates that not all empty locations are held for their rental income, but also for their capital gain. When capital gains outstrip rental capacity, such obvious distortions will occur in the economy.

The 2011 report found 90,000 residential vacancies in Melbourne.[41] Of note to small business was a 24.2% commercial vacancy rate.

There is little incentive to produce and employ when one can buy and sell for much greater profit at a lower risk, and with a significantly lower tax burden.

A well designed land tax will deter the pursuit of capital gains over rental income, pushing the majority of the 90,000 vacant properties onto the market. Competition will see rents fall. Renters will look for cheaper accommodation. The added competition would demonstrate that the land tax cannot be passed on (when set at a rate of significance). Vacant land will be subdivided according to its highest and best use, further adding to supply side pressures. Any landlord who tries to pass on the land tax will see his tenant vacate the premises for cheaper options.

In Victoria, a block of land now valued at say $330,000 pays $435 per annum in land taxes and about $700 in municipal rates. Little behavioural change will occur when annual capital gains of $30,000 per annum were recently common place.

The commercial land tax rate was set at 6.5% to account for the higher annual yield in that sector. Charities and 'other' users of land are also required to contribute as a quid pro quo for the lower price regime resultant from the removal of 125 taxes. The rural sector is discussed in detail at the end of the report.

We estimate the higher land tax will alter the incidence of the land component as follows:

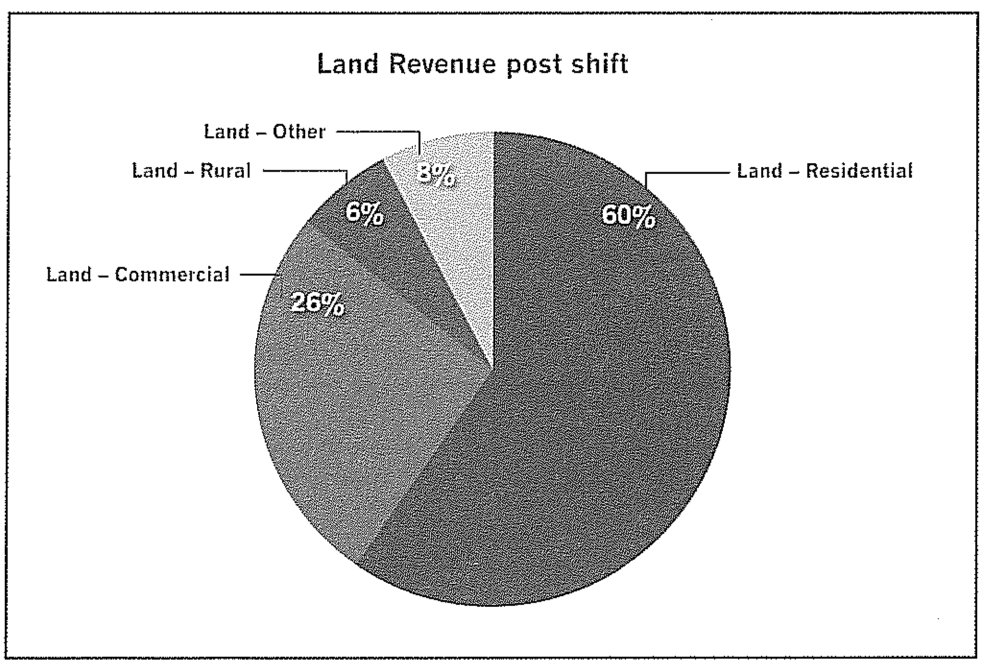

Figure 11

39 https://www.osr.qld.gov.au/land-tax/about-land-tax/land-tax-rates.shtml

40 http://www.earthsharing.org.au/campaigns/

41 http://www.earthsharing.org.au/2012/07/02/speculative-vacancies-in-melbourne-2012/

Behavioural change will occur in two ways – a drop in land prices in outer sprawling areas and a price increase in the CBD and well serviced locations. The commercial property sector will boom with CBD locations hotly pursued due to the added cash flow allowed by the removal of company, sales, payroll and income tax. Land values in these areas will rise, accounting for an estimated 15% increase in the land based commercial tax take. Similar trends occurred in Denmark in the late 1950s when these reforms were proposed.[42]

Land Tax Background

Those who own the earth have a natural advantage over someone running a business or earning a wage. Classical Economists such as Adam Smith and David Ricardo believed the role of the tax system was not only to raise revenue, but to create a level playing field between owners of natural advantages and those without such legal privilege. The by-product was a strong social contract where inequity was minimised and efficiency enhanced. The free movement of capital was encouraged to its best and highest use. Labour and capital were to operate in a low tax jurisdiction. The thinking recognised that high land prices drain a productive economy of its potential.

A yearly land rent (or land tax) based on the locational value was the mechanism Classical economists hoped to rebalance the advantage land owners have over workers and employers. The current system of land tenure gives an owner permanent property rights for that location via a *fee simple* contract. It is a "one-off" deal which locks out future generations from competing (who, by definition cannot attend the sale or auction). The philosophy behind land tax is that the market-based land rent (a *fee annual* contract). Property valuers determine land valuations, just as they do for our municipal rates. This infers the sharing of land rent in place of most other taxes - not the nationalisation of land.

Land Value Tax - How Does it Work?

Land values act as a barometer for the amenities that service a location.

The advantage of living near a train station or library is reflected by higher land values. These publicly funded advantages result in private windfalls. The recent Committee of Melbourne's *Moving Melbourne report* identified the need for 'value capture policy' to finance the infrastructure deficit.[43] Lucy Turnbull has advocated similar policies in Sydney's Cities Expert Panel.[44]

Television shows repeatedly promote 'location, location, location' as a vital real estate investment strategy, but the economics profession continues to ignore such distortionary primal behaviour.

Consider two identical parcels of neighbouring land. Block A pays no Land Tax, Block B does. Over twenty years, the Block A landowner will pay his mortgage, his income, sales and other business taxes. The landowner for Block B will pay on average a lower amount for the land that also helps replace his other taxes. The choice is whether this land rent payment goes to a bank or funds government in lieu of other taxes.

Land tax is in effect a counterweight to mortgage debt.

Today's system encourages a lifetime of debt for the right to live in a community. The value of living in a community is the economic rent, capitalised into the land price.

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42 http://www.earthrights.net/wg/swot-denmark.html

43 http://www.melbourne.org.au/cms-policy/moving-melbourne

44 http://afr.com/p/national/call_to_tax_infrastructure_windfalls_vVz1GPfG2xzCLtPmuzftPl

70% of a mortgage is generally the land component. Under the current system, we allow the banking system to make 25 years of interest-based profit on the land component. There is little to no risk for money lenders in earning 70% of mortgage interest profit on the land component.

Society's development, combined with a naturally rising population, is guaranteed to increase competition for prime locations. Those who own the best sites under today's system have a profound advantage. They can delay selling until their asking price is met. Until then, they have a comparative advantage in that they can borrow against their asset to buy more scarce resources.

Investors, Home Owners and Prices

In 2012, an average Australian house was priced at $550,000. The land portion is estimated at 70% = $385,000. A land tax of 5.5% on $385,000 equals $21,175. Some will be concerned at paying $21,175 towards government revenue each year. It must be remembered:

- land prices will fall in many areas, reducing land tax payments as the difference between land price and land value is rectified.
- the average income earner of $60,000 will take home an extra $19,500 via the removal of income tax alone.
- this is a per landholding charge - the bill is split amongst householders.
- with less paid for rent in many areas, more will be available for business to pay in wages.
- with company tax removed, business will have headroom for wage increases and expansion.
- with less tax paperwork and cheaper rents, a spur to small business is expected.
- some 23% of the prices of goods and services are made up of taxes. Removing these distortive taxes will enhance purchasing power, which when combined with a surge in competitive behaviour, will see supermarket prices fall.
- pensions could be doubled by utilising monopoly rents to assist in transitionary issues.
- renters will not pay extra – a land value tax cannot be shifted by the landholder
- Those who live in better locations will pay more than the less privileged (figure 6).

As a cross referencing measure, the ABS has calculated 8.65 million households exist in Australia in 2012.[45] Under our proposal, the land sector is expected to raise $204.560 billion. This infers that each of the 8.5 million households pay $24,076 on average. With each average income earner saving $19,500 in income tax alone, this is a reasonable burden.

With the tremendous productive impetus given to business with less tax, less compliance and lower deadweight costs, the economy will boom.

Consumers will enjoy higher purchasing power due to the abolition of income and sales taxes. The tripling of the Carbon Tax (moving revenues from fuel excises to the 2012-13 revenue expectations for Carbon Tax) will direct consumption towards more sustainable industries. This infers the removal of the Carbon Tax exemption on petrol.

45 http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/3236.02006%20to%202031?OpenDocument

Resource Rents and investment

The principle of targeting unearned income should apply to all natural resources, once known as the commons (as in common gifts to all).

The ongoing global mining boom has seen more than a dozen sovereign governments recognise the need for those benefitting from the common-wealth to contribute to public services. These nations include Brazil, Zambia, Ecuador, Ghana, Guinea, Zimbabwe, Zambia, South Africa, Peru, Venezuela, Indonesia, Australia and the Democratic Republic of Congo.[46]

Norway charges a 50% resource rent on mineral extractions, plus a 28% corporate income tax. However, their mining companies report reasonable profits. When licenses come up for renewal, more companies clamour for these scarce licenses than are available.[47] This is despite a 78% charge on the rising value of these resources.[48]

Israel is contemplating a 50% resource rents on their gas extractions.[49]

The mining industry has recently raised concerns about the cost of production in Australia, blaming the MRRT (Minerals Resource Rent Tax) and the cost of labour. Little is mentioned of the role high land prices have in undermining labour's cost effectiveness. Bloomberg reports:

A furnished two-bedroom apartment in Port Hedland, the world's biggest bulk export terminal, on Australia's cyclone-battered north-western coast rents for almost the price of a three-bedroom penthouse in Manhattan.[50]

Resource Nationalism – Mining Risk

Ernst & Young produce an annual *Business Risks Facing Mining & Metals* report.[51] Over the last few years the report has warned of the dangers posed by economic rent literacy. In 2009, resource nationalism was ranked at #9 in the Ernst & Young report. To minimise the threat of resource nationalism, mining companies were advised to:

> "Align with multi-lateral agencies, such as the World Bank, to achieve a 'prominent victim' status in the face of mounting resource nationalism".

In the latest report they state:

> "In 2011, resource nationalism became the number one risk for mining and metals companies as governments globally continue to make demands in order to increase their slice of the profit pie."

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46 http://www.bloomberg.com/news/2012-07-08/growing-resource-nationalism-deters-mining-investment-e-y-says.html

47 Arctic Gas, 07/09/2011 (http://www.arcticgas.gov/norway%E2%80%99s-different-approach-to-oil-and-gas-development)

48 http://www.statoil.com/annualreport2010/en/ouroperations/regulation/pages/taxationofstatoil.aspx

49 http://www.ynetnews.com/articles/0,7340,L-4008487,00.html

50 http://www.bloomberg.com/news/2013-04-09/mine-town-rents-beating-manhattan-show-aussie-pain-commodities.html

51 http://www.ey.com/GL/en/Industries/Mining---Metals/Business-risks-facing-mining-and-metals-2012---2013

Resource nationalism is code for the public receiving a share of the profits of their common wealth, as they discuss:

> "Governments are continually assessing the fiscal terms of the economic rent for mining and metals projects in their countries in order to obtain their share of higher mineral prices via taxes or royalties."[52]

The Henry Tax Review championed the efficiency dividends available by switching from company tax towards a system capturing economic rents.

However, the Rudd government's *Super Profits Resource Tax* was pitched to the community as a tax on wealth rather than an issue of legal privilege over the common wealth. 'Wealth envy' became the catch cry of lobbyists rather than a debate over the undeniable legal and economic advantage owners of scarce resources have over other forms of business.

Private property rights must recognise the role the public plays in their property value. If nobody existed in the city of Melbourne, the value of land would fall dramatically. Citizens, as a whole, create the rising value. The very existence of a community influences resource values and thus creates economic rents. The same is true for all natural resources and licensed monopolies. Rio Tinto's 2010-11 production schedule reflects this:[53]

Rio Tinto Australian production (000 tonnes)	2011	2010	Change
Hard coking coal	8,815	8,967	-2%
Semi-soft coking coal	2,859	3,075	-7%
Thermal coal	17,791	18,430	-3%
Uranium (000's pounds)	7,058	11,377	-38%
Gross sales revenue ($ millions)	7,327	5,652	+30%

Table 3

In Table 3, Rio Tinto's production volumes fell in Hard coking coal, Semi soft coking coal, Thermal coal and Uranium. But Gross Sales Revenue rose by 30%. This reflects the scarcity rents associated with these products, where volumes sold can fall but prices rise, delivering easy profits - economic rents.

Dangers of partial resource rents capture

Using this analysis, a global trend is unfolding around the unparalleled flexibility of capital and its pursuit of economic rents. The millionaire formula is to scour the globe looking for developing economies with poor taxation regimes and an abundance of natural resources. Accordingly, Ernst & Young's *Global Oil and Tax Guide* is a useful predictor of investment activity.[54] The key is forecasting a nation's issuing of mining rights. The entrepreneurial skill is to buy the land surrounding the town nearest to the new mining operation. Timing is everything.

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52 Ibid.

53 http://www.riotinto.com/documents/Media/120209_Rio_Tinto_announces_record_underlying_earnings_of__15_5_billion__net_earnings_reduced_by_impairment_charge.pdf

54 http://www.ey.com/Publication/vwLUAssets/2012-global-oil-and-gas-tax-guide/$FILE/EY_Oil_Gas_Tax_Guide_2012.pdf

As Will Rogers famously said - "Buy and wait". Wait for the mine to set up an operation and for the well paid miners to come flocking. Over time the shortage of land and housing due to the boom time nature of development escalates land values.

Nations that capture mining resource rents but leave land rents untouched suffer. The resultant rising value of land will leech away the wage gains miners make for their risky work and local retailers will suffer from rising rents. Teachers and nurses miss out on the income but face higher housing costs. Such examples exist in resource wealthy nations such as Venezuela, Russia and Australia.

"In the Pilbara, a major iron-ore producing area, median housing prices posted an average annual growth of 19 percent over the last five years, according to the Real Estate Institute of Western Australia.

Compared to that, national house prices rose by an average annual rate of about 8 percent, based on government data."[55]

Australia's record property bubble has generated concern about the six times average wage required to buy the average house. Mongolia was declared the world's fastest growing economy in 2012[56] where a similar mining boom is underway. Affordability has plummeted with property doubling in value in just the last five years. With the average per capita income in Mongolia today, it would take 26 - 40 years to purchase an average home.[57]

Of additional concern is governments who adopt a partial resource rents approach being left exposed to criticisms of a tax grab. Despite some return on non-renewables, the public lose out twice with the resultant land bubble and loss of biodiversity.

Significant environmental bonds must be included to ensure that mining is held to account for any damaging consequences.

Calculations for Resource Rents

There are different systems for capturing resource rents that all have their quirks. Royalties are payable on the quantity or value of mineral, even if there is no profit. The large miners do pay company taxes but these are payable on profit even if there is not enough profit to justify the investment. The Marginal Resource Rent system encourages development of marginal mining projects, but currently allows extravagant depreciation allowances.

A reformed MRRT would base revenues on a 40% charge on earnings before interest, depreciation, tax and exploration (EBITDAX). The findings were calculated on the EBITDAX (2011-12) earnings of the big three miners – BHP, Rio and Xstrata of $67.359 billion. An additional $14.637 billion was added to EBITDAX totals to incorporate shareholder dividends paid. At a 40% rate, this sees a contribution from the entire mining sector of $32.8bn.

Of note is BHP's willingness to pay $54 billion to its shareholders over the last ten years.[58] A yearly dividend averaging $5.4 billion is considerable, and investors deserve a return on capital. The Australian people deserve a greater return on the scarce, non-renewable resources which they own. This is exemplified by iron ore, which has appreciated by 900% over the last decade. This uplift in the value of finite resources was through no effort of the mining industry. It is a unique privilege, a great part of which is owed to the Australian people.

In 2011 -12 the Australian government expected to earn $1.5bn from the mining *and* petroleum sector. Shareholders received $14.6bn from just three mining companies. The first year of the MRRT is expected to deliver $200m.

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55 http://www.land.com.au/booming-australia-mining-towns-draw-capital-for-property/

56 http://amanpour.blogs.cnn.com/2012/09/25/whats-the-fastest-growing-economy-in-the-world/?iref=allsearch

57 http://en.wikipedia.org/wiki/Mongolia

58 http://www.bhpbilliton.com/home/investors/reports/Pages/Roll%20up%20Pages/2012-Annual-Report,-Summary-Review-and-Form-20-F.aspx

Petroleum Resource Rent Tax

Widely respected as an effective measure for capturing the rising value of oil and gas, the PRRT helped to raise just $1.5 billion for government (11-12).[59] Woodside Petroleum and Santos are two of the many companies in the Australian industry. They made over $5.5 billion in 2011 (EBITDAX). They paid barely $174m to governments in royalties and the PRRT. Due to accounting separation issues, we were unable to decipher how much the MNC's of Shell, BP, Chevron, Exxon and BHP either made or paid from Australian oil and gas revenues.

Accounting practices turned the PRRT's 40% into an effective 3.2% rate when comparing resource rent charges to profits made (174m/$5.5bn). The PRRT must contribute more to account for the reductions in company, sales and payroll taxes, to name a few.

Calculations

According to the ABS, the oil and gas extractions industry EBITDAX was calculated at $22.229bn (2010 -11).[60] A 40% Resource Rent was levied to calculate the $8.092 billion contribution to government revenue.

Part III - Natural Monopolies

The Digital Dividend

In terms of data sovereignty and understanding the importance of the common wealth, Australia has just engaged in what Minister for Communications Stephen Conroy calls 'the Digital Dividend' - the auctioning of the 700 Mhz electromagnetic spectrum. The sale raised $1.96 billion in one-off revenue for the 15 year license. More than $1 billion of spectrum remains unsold.

Experts have called the 700 Mhz the 'waterfront real estate' of the electromagnetic spectrum. Data transferred across the EMS is now larger than voice related traffic since the advent of smart phones.[61]

AT&T Inc Chief Executive Randall Stephenson says where 10 MHz of spectrum lasted four to five years in the old days, "Today, we'll burn through that in about 10 months."[62] Once iPhone 10 is released and we can, for example, holographically transport ourselves to the other side of the world, this natural resource, the once 'public airwaves' will blossom in value.

US economist J. Snider's report *The Art of Spectrum Lobbying* estimates US spectrum giveaways have ranged between $140 billion and $480 billion between 1993 – 2007.[63] Note, this was largely prior to the advent of smartphones.

Snider has since reported on President Obama's *American Jobs Act of 2011*, whose headline act was to raise taxes on the wealthiest Americans.

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59 http://www.budget.gov.au/2012-13/content/bp1/html/bp1_bst5-06.htm

60 http://www.abs.gov.au/ausstats/abs@.nsf/Products/8155.0~2010-11~Chapter~Industry+performance?OpenDocument

61 http://www.jhunewsletter.com/2011/11/07/mobile-carriers-will-profit-from-data-usage-64313/

62 http://www.reuters.com/article/2011/01/12/us-usa-spectrum-idUSTRE70B7T320110112

63 http://isolon.net/about/board/j-h-snider/j-h-sniders-books-glossy-reports-on-information-policy/praise-for-the-art-of-spectrum-lobbying/

> "But the Act includes a spectrum giveaway worth tens of billions of dollars to some of America's wealthiest and most politically powerful individuals and corporations. Of the Act's 155 pages, 30 are devoted to repurposing U.S. spectrum assets (popularly known as the "public airwaves"), which have been estimated to be worth over $1 trillion."[64]

Senator Conroy wisely placed a floor price on the auction. However the one-off nature of the auction process will lock the government out of economic rents delivered by technological improvements in the future. Despite complaints the floor price was beyond international prices, a recent US sale of similar spectrum dimensions was revealing. AT & T paid Verizon a 30% premium on Conroy's price, suggesting the government has some knowledge of the resource's present-day value.[65]

The remaining $1bn in 700 Mhz spectrum could be leased yearly at an annual valuation determined by professional valuers based on earning capacity. This would take into account the potentials enabled by new technologies. The owner would control a 15 year license for as long as they are willing to pay the yearly EMS lease valuation.

Calculations

In this multimedia age, the $1.96 billion EMS auction price will in years to come be seen as a bargain. The ABS calculates the existing spectrum already allocated at $8.6 billion.[66] A 20% Resource Rent on the $10.56 billion total will see the multimedia industry (radio, TV, mobile) contribute $2.12 billion per annum, depending on current valuations. TV licenses were given away in the 50's.

EMS, Privatisation and Democracy

Joseph Stiglitz, as Chairman of the Council of Economic Advisers for President Bill Clinton, advocated the leasing of the electromagnetic spectrum. He is one of a number of economists who recognise campaign contributions undermine freedom of speech.

"The public owns the airwaves that the TV stations use. Rather than giving these away to the TV stations without restriction – a blatant form of corporate welfare – we should sell access to them; and we could sell it with the condition that a certain amount of airtime be made available for campaign advertising. With free advertising politicians would need less money, and we could constrain those accepting the free advertising in the amount and nature of campaign contributions they accepted. But the TV stations that make such money from campaign advertisers – and from their free gifts of the spectrum – vehemently and successfully opposed the reform."[67]

New Zealand goes part way, using public finance to provide free advertising to parties:
"The Electoral Commission allocates time and money to be spent on television and radio advertisements, and on campaign opening and closing speeches. For example in 2008 $3.2 million and 102 minutes of television time was allocated to 14 parties – with 60% of the money going to Labour and National. Political parties are not permitted to use their own money to buy additional broadcast advertising."[68]

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64 http://www.huffingtonpost.com/jh-snider/spectrum-auction_b_992508.html

65 http://www.businessspectator.com.au/bs.nsf/Article/mobile-spectrum-4G-Telstra-Optus-Conroy-pd20130129-4DR3P

66 Table 59, http://www.abs.gov.au/ausstats/abs@.nsf/mf/5204.0

67 p136, The Price of Inequality, Joseph Stiglitz, 2012

68 http://www.teara.govt.nz/en/elections-and-campaigns/5

Privatising the electromagnetic spectrum undermines democracy - the everyday person has little capacity to compete with corporations and their extensive campaign contributions. This makes the extensive public broadcasting network in Australia all the more important to maintain and improve.

The Corporate Commons

Business will greatly benefit from reduced compliance costs inherent in the removal of over 125 taxes. For these benefits to be realised in a stable society, corporations must contribute for the legal privilege of personhood, limited liability and the maintenance of the legal system. Without well functioning corporate infrastructures, confidence in the fulfillment of private contracts may falter. Additionally, the stock exchange is a powerful vehicle for immense wealth creation. This trading infrastructure was publicly developed over centuries. Peter Barnes wrote in Capitalism 3:

> For those of you who haven't been involved in a public stock offering, investment bankers are like fancy doormen to a free palace. While the public charges almost nothing to use the capital markets, investment bankers exact hefty fees.[69]

Calculations

The market capitalisation of the Australia stock exchange was $1.382 trillion (Jan 31, 2013). A 2% Corporate Commons fee is set to deliver $27.64 billion to public coffers. This equates to 40% of current company taxation levels, ensuring Australia is investment friendly for those engaged in productive, entrepreneurial activities.[70] Admittedly, most companies will pay some form of land tax, and minor charges like Domain Name registration fees. However, the overall tax burden will be significantly lower.

Water

The separation of water title from land title in 1994 by the National Water Commission is delivering positive outcomes for the highest and best use of water. However, public policy must acknowledge that great profit can be made for little effort if there are no public holding charges on entitlements to scarce natural resources. At present, there appears to be little in the form of recompense for the public.

Water can be traded either as a temporary 'allocation' or a permanent 'entitlement'.

In 1990, a water license for a one megalitre (ML) allocation sold for $50 - $100. At the height of the drought in 2007, water licenses sold for $2,600/ML, an increase of 26 times.[71]

The Australian water market doubled in size between 2007-08 and 2009-10. $1.5 billion in water licenses were traded and the market reached $3 billion.

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69 http://capitalism3.com

70 op cit, www.budget.gov.au/

71 www.australianwaterinvestments.com.au

Arbitrage opportunities with irrigation water

Dr Bob O'Brien, Visiting Research Fellow at the Environment Institute of the University of Adelaide, writes:

> "Urban water supply involves recurrent costs of about $2.50 to $3.00 per kilolitre (kL) across Australia. This is the equivalent to $2,500 to $3,000 per mega-litre and it is a recurrent cost which is paid as water is consumed. This compares to the $2,000/ML 'one off' cost for an irrigation water license.
>
> "As well, the cost of urban water is increasing, as Australian governments seek full cost recovery for water. It is expected that potable water will cost Australians about $4.00/kL for every kL of water they use within two to three years.
>
> The movement of irrigation water to industry and mining presents arbitrage opportunities for owners of irrigation water licenses, as superior returns are possible. Arbitrage opportunities indicate that irrigation water licenses in Australia are undervalued."[72]

In March 2012, Blue Sky Water (BWSP) released an Australian Water Market update:

> "Current market prices (where settlement and registration will occur over the next 1-2 months) suggests selective opportunities are present to acquire Water Entitlements in the southern MDB at perhaps a further 10% discount to the volume weighted average prices registered in February 2012."[73]

Reflecting the abundant supply available following the breaking of the drought, the price of water allocations (annual water volumes allocated) have fallen to historic lows in the last few years. Since January 2011, water allocations have traded between $10 and $30 per megalitre (ML) across the southern interconnected trading zones (including the Murray, Murrumbidgee and Goulburn rivers). This compares to an average in the range of $80 to $120/ML over the past ten years and a peak between $800 and $1000/ML during the worse drought period in 2007/08.[74]

72 www.australianwaterinvestments.com.au/.../29_water_prices_being_an_asset_bubble.pdf

73 p1, www.dealersgroup.com.au/kb/quarterly-review-austral-1.pdf

74 ibid, p4

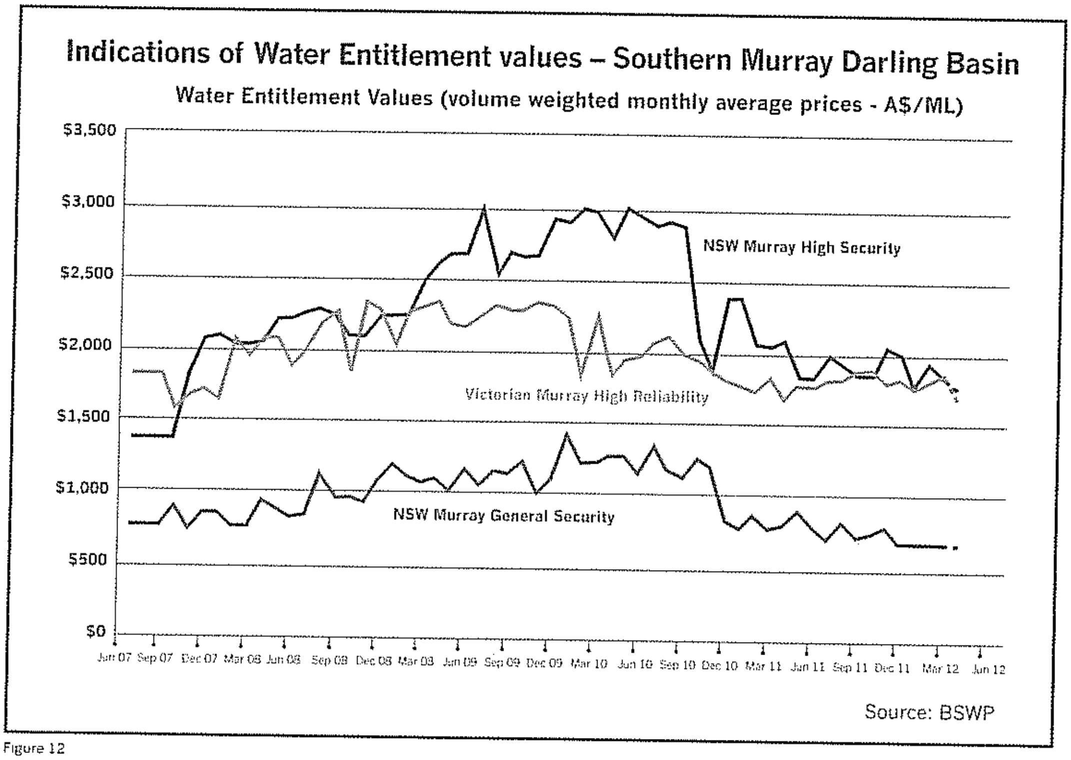

Figure 12

Blue Sky recommend investing in water now due to:[75]

- the Federal government's Murray Darling Draft Basin Plan, reducing water for farming in favour of the environment
- farmers repairing their balance sheets by selling Water Entitlements whilst dams are full
- additional farming production due to the current water availability and
- a return of drought based climate pressures

Blue Sky's website states "BSWP believes Australian Water Entitlements will experience long term capital growth primarily driven by incremental fresh water scarcity as a key input to food, fibre and energy production required by a growing world population."[76]

Water Entitlement holders currently pay no resource rents. The ABS does not value the licenses in the national accounts. Bob O'Brien has estimated the value of the water market at $50 billion.[77] Additionally, the value of access to underground acquifers has not been included and must be in time.

Calculations

With the value of 2012 water entitlements holding up despite the regular rainfall, a 2.6% resource rent on this monopoly right seems fair. We have taken Bob O'Brien's $50 billion valuation estimate to calculate a $1.3 billion contribution. We look forward to a national valuation by government sources.

75 ibid, p5 - 6

76 http://blueskyfunds.com.au/BlueSky_Water/water_in_australia.html

77 ttp://www.eurekareport.com.au/article/2010/4/19/commodities/ultimate-liquid-asset

Utilities

In October 2012, Infrastructure Australia (IA) spearheaded a move to privatise $220 billion in public assets via the sale of 82 government entities.[78]

The effrontery to promote such a strategy as yet another privatised toll road enters bankruptcy – the Brisbane Airlink M7 toll road - strikes at the need for alternative views.[79]

It should be noted that the Infrastructure Australia board has 16 of 20 directors with a vested interest in the resultant trade from such large scale privatisation.[80]

In terms of electricity privatisation, Queensland Energy Minister Stephen Robertson said:

> "Queensland is still significantly below the electricity prices paid in Victoria so if that is what the Federal Government is hanging their hat on as a compelling argument to privatise energy-generating assets then that's a curious way of going about it".[81]

Utilities are unique monopolies due to:

- large start up investments act as a barrier to entry
- the scale of investment encouraging concentration in the industry
- the national economic significance of these inputs requires the lowest utility pricing structures to maintain a competitive economy
- due to lack of substitutes, demand elasticity to price change is low, allowing price gouging

Additional reasons for why electricity privatisation is second best:

- marginal revenues are not sufficient to cover the returns required on multi-billion dollar fixed capital infrastructure.
- directors of privatised utilities are legally bound to prioritise profits for shareholders over customer service.
- the climate shift will put downward pressures on sale prices for power generators and upward pressures in the short term on consumer prices.

The Australia Institute's David Richardson writes in *Electricity and Privatisation: What happened to those promises?*:

> ...productivity across all workers increased by 33.6 per cent, while in the electricity sector it declined by 24.9 per cent.... the number of managers in the sector has grown from 6,000 to 19,000 from 1997 to 2012, a rise of 217 per cent." [82]

78 http://afr.com/p/national/adviser_seeks_bn_privatisation_to_0LDvT11tw50f1sjJRHZzyH

79 http://www.couriermail.com.au/news/queensland/brisbanes-airportlink-m7-tunnel-hits-milestone-but-traffic-still-below-forecast/story-e6freoof-1226550033199

80 http://www.infrastructure.org.au/content/ourboard.aspx

81 http://www.abc.net.au/news/2011-12-13/government-pushes-states-to-privatise-power/3727966

82 https://www.tai.org.au/index.php?q=node%2F19&pubid=1142&act=display

Dividends

Power utilities paid dividends in their last financial year of:
NSW $1.43bn[83]
Qld $1,396bn[84]
Vic $362m[85]

Thus $3.2billion was paid in dividends to government by only three of the 82 entities Infrastructure Australia proposes to privatise.

Calculations

The $220 billion valuation given by IA does not include privatised utilities. The 10% rate on asset bases is higher than other asset stocks to account for already privatised utilities not included in this report. That said, the monopoly rents attributable to utilities in water, power, ports, rail and non-privatised airports allow 10% of the $220 billion in assets to be collected as a resource rent. The resultant $22 billion in payments will help replace public dividends, company tax and indirect taxes etc. As noted above, utilities already pay significant public dividends..

Yearly valuations of assets are to be undertaken. EBITDA analysis would be used to cross reference rents available. In time, the difficulty valuing privatised assets will be included.

Australian Airports

Airports enjoy an unshakable monopoly position: a city usually has only one and all major air traffic movements are obliged to use its facilities. This funnels airlines and, more importantly, affluent passengers through the gates of airport operators.

The unique monopoly status of airports provides operators abnormal returns not available to other investors. Operators are also heavily reliant on government-funded interventions on their behalf – road and rail links, government-provided air services, planning and zoning restrictions on land under flight paths, etc. which further entrench and enrich monopoly owners.

The Australian Competition and Consumer Commission's (ACCC) *Airport Monitoring Report 2010–11 - Price, Financial Performance and Quality of Service Monitoring* has observed that airports' returns are less volatile than those observed in related markets, such as airlines.[86] Even allowing for the limitations of the monitoring results, these observations are consistent with outcomes that would be expected of firms that can exercise market power.

The scope of the ACCC analysis did not include the effect of steep commercial rents upon consumer goods, where a one litre bottle of water can cost $4.50. Compare this to the public outcry when a litre of petrol costs $1.50.

The findings on Melbourne airport car parking were revealing. "The largest increases occurred at the ten hour price point, which increased by a total of $22 (73.3 per cent). The price for three hours and 24 hours each increased by $10, or 55.6 per cent and 23.8 per cent respectively."

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83 NSW Auditor General Volume Four 2012 - Focusing on Electricity

84 QLD audited state-finances-report-2010-11-financial-statements-part-b

85 SP Ausnet annual report 11- 12

86 http://www.accc.gov.au/content/index.phtml/itemId/347781

The ACCC found car parking had a higher operating margin as a percentage of revenue at 75.8% versus the total airport of 64.3%.

Concern over airport monopoly profits saw Clive Domain, Travel writer at the Age write:

> "Airports are more profitable than banks and the fuel companies, whose operating margin – the percentage of revenue that's gross profit – is 40-60 per cent, a return not available to businesses in competitive industries, where 1-2% is accepted by some (like airlines), 10 per cent is OK and 30 per cent is heroic.
>
> The most lucrative of Australia's airports, Sydney, last year made an operating profit of $773 million on $943 million in revenue. That's an operating margin of 82 per cent; the airport had to spend only $170 million to make nearly a billion. Through the miracle of accounting, Sydney airport last year lost $131 million after allowances for depreciation, debt servicing and other devices it is able to use."[87]

These monopoly privileges ought to be separately identified and uniquely taxed as a fairer base for government revenues. For the purposes of this exercise, we set the additional charge at 40 per cent of Earnings Before Interest, Depreciation, Taxation and Amortization (EBITDA).

	Airport Corporation EBIDTA	Potential return to government @ 40% of EIBDTA
Sydney	789	315
Melbourne & Launceston	482	192
Brisbane	355	142
Perth	191	76
Adelaide	102	40
Totals	1919	765

Table 4

Airport pricing ought to be tightly regulated if they are to remain in private hands as there are few opportunities for competition. Airports are a prime example of a well regulated public monopoly being superior to privatisation. Shareholder interests should not trump the need for low cost overheads for business and the community. Australia and the UK are the only two nations on the planet to have succumbed to rent-seekers lobbying for privatised airports.[88]

87 http://www.theage.com.au/travel/blogs/travellers-check/the-true-cost-of-our-airports-20110829-1jha7.html

88 ibid

Taxi Licenses

Taxi Licenses are a government mandated supply constraint that adds scarcity value to the license holders. Dr Ken Henry stated in *Australia's Future Tax System*:

> "Quantity restrictions on taxi licences are an implicit tax on taxi users, from which additional revenue flows to existing taxi plate holders and State governments."[89]

The Victorian Taxi Inquiry states:

> "Melbourne taxi licences are now worth almost half a million dollars and the vast majority are leased out (or assigned) by licence holders to taxi operators for ever increasing prices. This places great cost pressures on taxi operators who, in turn, offer very little to drivers." [90]

There are 5,181 taxi licenses in Victoria. Around 4,000 are privately owned and pay an annual fee of $500 for the privilege. Those licenses are extremely valuable. The taxi directorate advises on their website the average sale price of a Melbourne license last year was $484,250.[91] Brisbane taxi licenses are valued (2003-2011 average) at $420,000.[92]

This tradable asset is the capitalized difference between fares collected and the cost of running a cab – wages, fuel, vehicle, insurance, the network service provider and government charges. The value is created by government limiting license supply below taxi customer demand. Crimping supply makes passengers wait and lifts prices – funneling revenue into the hands of license owners, not the drivers, many who earn just $8 an hour.[93]

Generating top returns takes a level of skill and judgement managing staff, rosters and the vehicle. This, however, is a return to labour, not to the asset.

The annual value – the 'economic rent' – of licenses can be determined from leasing costs. Indeed, 70 per cent of licenses are leased to operators for around $30,000 per year.[94]

The Department of Transport's Victorian Taxi Directorate also leases about 1100 licenses to operators each year, making more than $11 million or around $10,000 per license per year.

The solution is quite simple, as the Victorian Taxi Industry Inquiry led by Professor Alan Fels recommends: raise the annual registration fee for taxi licenses to, say, $25,000 a year, returning some $118 million ($129m less the existing $11m state leases) to the Victorian Treasury to fund tax cuts elsewhere.

This would be tough for the license holders, but they are free riding on the backs of long-suffering taxi users. Remember, those licenses were issued without charge and government is entitled to change the rules around such a gift at any time.

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89 Australian Future Tax System report (p401)

90 p23, http://www.taxiindustryinquiry.vic.gov.au/

91 http://www.taxi.vic.gov.au/owners-and-operators/taxi-owners-and-operators/licence-transfer-and-assignment/metropolitan-taxi-licence-transfer-prices

92 http://www.tmr.qld.gov.au/~/media/busind/Taxi%20and%20limousine/Taxi%20strategic%20plan/Pdf_taxi_industry_review_economic_model.pdf

93 http://www.theage.com.au/victoria/taxi-drivers-stage-mock-funeral-20121128-2acy6.html

94 http://www.taxi.vic.gov.au/owners-and-operators/taxi-owners-and-operators/licence-transfer-and-assignment/metropolitan-taxi-licence-assignment-prices

Estimating the privately captured economic rents at a national level is complicated by differing state classifications and economic models. The simple estimate below acknowledges the limitation of the data, while pointing to a fertile field for the capture of economic rents generated by government licenses.

State/City	Taxi licenses	Annual value @ $25,000
Sydney, NSW	4,458	111,450,000
All Victoria	5,181	129,525,000
Adelaide, SA	1,000	25,000,000
All Western Australia	1,474	36,850,000
South East Queensland	2,289	57,2225,000
National Total	14,402	360,050,000

Table 5

Fishing Licenses

Over 90% of Australia's most valuable fishing licenses – bluefin tuna – are owned by Port Lincoln fishermen. These were freely granted when compulsory licenses were introduced in the mid 90's.

It was reported in the early 1990's, "one of the richest of today's tuna kings, Tony Santic, reportedly sold 337 tonnes of his quota for $72 million, or $214,000 a tonne, to Melbourne businessman Victor Smorgon."[95]

Bluefin tuna fishing has been honed into a fine art. Over just a few weeks, schools of fish are tracked by plane, tug boats net and then haul the catch back to huge fish pens. The tuna then spend the next few months being fattened up. Once prepared, packaged and sent to markets such as Japan, a single fish often sells for $10,000. The record in 2010 was $736,000.[96] Over $1.6 million was paid for a single blue fin tuna fish in 2012.[97]

Victorian Abalone licenses were virtually given away in the 1960's for as little as $6. In 2009 - 10 the industry reported $23 million in production.[98] The 71 licenses cost $30,000 - $40,000 to renew.[99]

In 2011 - 12, Victorian abalone royalties totaled $240,076.14.[100] This equates to a 1% resource rent.

In the drive towards free market efficiencies, 'developing fishery permits' have been available for jellyfishing in an effort to 'create a market' in Victoria. At a one off cost of $11,000, the early movers who take up such a permit are in the front line to gain a license and thus attain

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95 http://www.theage.com.au/news/national/fishy-behaviour-doesnt-worry-the-millionaires-of-port-lincoln/2006/08/18/1155408020865.html?page=fullpage

96 http://www.publicintegrity.org/node/7817/2010/11/07/2335/overview-black-market-bluefin

97 http://www.telegraph.co.uk/news/worldnews/asia/japan/9782074/Bluefin-tuna-sells-for-record-1-million.html

98 http://www.dpi.vic.gov.au/fisheries/commercial-fishing/commercial-fish-production-2011

99 Conversation with John at the DPI 05/02/2013

100 Letter from Minister Walsh 04/02/2013 ref: MW004269

property rights in the market.[101] While this market has not kicked off as expected, the issue is - jellyfish are gifts of nature. There is no recompense for society over time if the world's fastest carbon consuming compound is located in the DNA sequence of such a fish. If this were to occur, all jellyfish licenses immediately escalate in value. Economic rent, the free lunch, would be handed to those privileged license holders.

The Northern Prawn Fishery off the coast of northern Australia is another of our most valuable fisheries. [102] License holders pay administration fees in just the hundreds of dollars for government management of a multi-million dollar resource. In effect, taxes from blue collar workers in the manufacturing industry pay for National Parks officers to protect these 'private' resources. Compounding factors include the prawn fishing license owners benefiting from the CSIRO's world best practice management.[103]

An annual licensing fee based on the market value and volume of the fish caught is 'closed loop' economics. Beneficiaries to such private property rights should pay access rights.

An OECD paper on *Environmental Fiscal Reform for Poverty Reduction*, raises "important issues at the interface of poverty reduction, resource management and economic rent capture, thereby providing important opportunities for Environmental Fiscal Reform."[104] They cite:

> "Improved fishery management and increased rent capture – the case of Namibia. Prior to independence in 1990, access to Namibia's fisheries resources was largely uncontrolled and coastal waters were massively over-fished, primarily by foreign fleets. The newly elected government instituted a new policy, legal and management framework to effectively manage its fisheries and develop a domestic industry. Quota fees – based on total allowable catch for major species – and license fees were introduced with fishing rights biased to Namibian vessels. By-catch fees and a Marine Resources Fund levy were imposed, based on tonnage of landed catch to finance fisheries research and training. As a result, the sector contributed about USD 220 million to GDP in 2000 and was valued at USD 354 million in 2001.
>
> The indirect benefits have also been substantial: the fish processing industry has grown rapidly. The number of whitefish-processing plants has grown from zero in 1991 to more than 20 in 2002, and employment in the sector has grown to about 14 000 people.The government also invested heavily in monitoring activities, with an integrated program of inspection and patrols at sea (i.e. on board observers), on land (monitoring of port landings) and in the air (via satellite). While expensive, this investment pays off. The ratio of monitoring costs to value of landed catch has declined from an annual average of 6% over 1994-1997 to under 4% in 1999, reflecting an increasing value of landed catch. Namibia's rights-based fisheries management system incorporates an effective monitoring and compliance system at a cost that is commensurate with the socio-economic value of the sector. As a result, Namibia enjoys very high levels of compliance by its fishing industry, a situation very different from 1990. In its efforts to improve fisheries

101 Phone conversation with John at the Victorian Dept of Primary Industries, 01/02/2013

102 http://www.csiro.au/Portals/Media/Nothern-Prawn-Fishery-Case-Study.aspx

103 ibid

104 www.oecd.org/tad/fisheries/36371711.pdf

management, Namibia has benefited from assistance from several donors. Source: Nichols (2003)."[105]

Recently, the Federal government established the world's largest network of Marine Parks.[106] In time this will assist fish stock replenishment. Fishing license values will benefit. However, there is little recompense for the public purse under current arrangements. Despite the future windfalls license holders will enjoy, the government took a battering in the press at the time, largely due to short term thinking.[107]

Neither the Australian Fisheries Management Agency nor the ABS keep records of fishing license values. Thirteen fishing Statutory Fishing Rights licenses exist at the federal level. According to the Australian Fisheries Management Authority, just $13.8 million is expected in levy fees this year.[108]

Calculations

The 2009 – 10 value of production in the fishing industry was $2,178,716,000.[109] A 40% Resource Rent on $2.18 billion is $840 million. The license value is ultimately what calculations should focus on.

Forestry

Little detail is available for royalty rates set and revenues raised due to the privatised nature of many Australian forests. South Australian Forestry refused to reveal revenues, claiming the safe haven of 'commercial in confidence'.[110]

A letter from the Victorian Minister for Agriculture and Food Security revealed in 2011- 12:[111]
- $524,000 in royalties from Forest Produce Licenses
- $18,078,093 of combined royalty and haulage fees collected

These figures were not individually listed in the 2011 - 12 budget papers.

At the Federal level, the 2012 ABS Yearbook states that 188,000 hectares of forest were in production.[112]

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105 ibid

106 http://www.abc.net.au/news/2012-06-14/burke-announces-marine-parks-reserve/4069532

107 http://news.smh.com.au/breaking-news-national/marine-parks-will-hurt-small-businesses-20121116-29fmy.html

108 http://www.afma.gov.au/resource-centre/publications-and-forms/corporate/cost-recovery-impact-statement-2010/

109 http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/by%20Subject/1301.0~2012~Main%20Features~Fishing~182

110 Phone conversation with Marcelle 05/12/2012

111 op cit, Minister Walsh

112 http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/by%20Subject/1301.0~2012~Main%20Features~Forestry~181

The Department of Forestry, Fishing and Agriculture (DAFF) collect just five cents per cubic metre of timber.[113] Export woodchip hardwood pays a paltry 3.5 cents per cubic metre.[114]

"In 2010-11, 26.5 million cubic metres of logs were harvested from Australia's production forests for a gross value of around $1.84 billion. Around two-thirds of this log harvest was from plantations with the remainder from native forests."[115]

On these figures, DAFF collected $1.325 million for timber harvested at a value of $1.8 billion. This equates to a royalty payment of 0.007%. Road subsidies and direct government contributions to the industry are many times the revenues collected.

Calculations

An estimate of $50 million was based on the annual production of $1.8bn at a very conservative royalty of 2.7%. In years to come these forests will earn carbon credits and significantly increase in value according to their carbon sequestering capacity. The battle over who earns these carbon credits will be a hot issue.

Gambling Licenses

> ...poker machine playing is a mindless, repetitive and insidious form of gambling which has many undesirable features. It requires no thought, no skill or social contact. The odds are never about winning. Watching people playing the machines over long periods of time, the impressionistic evidence at least is that they are addictive to many people. Historically poker machines have been banned from Western Australia and we consider that, in the public interest, they should stay banned.[116]

Poker machines should be eradicated through regulation. The current addiction by state governments to this subtle form of taxing the poor is lazy social and fiscal policy. A simpler tax system will enable the growth of small business activity, offsetting the short term loss of jobs at casinos. Regular pub and tavern gamblers may well opt to spend the money at the buffet instead, transferring employment within the business from one department to the other.

The Henry Tax Review again re-iterated the importance of economic rent:

> "Gambling taxes should be focused on recouping economic rent generated by government restrictions on the supply of gambling services. If State governments retain gambling taxes, they should increase the focus on capturing rent."[117]

The 2010 poker machine auction was decried by the Victorian Auditor-General as a $3bn giveaway.[118] Such a one-off auction reflects the dangers of fee simple contracts. Poker machines that pull in annual takings of more than $80,000 were auctioned off for as little as

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113 http://www.daff.gov.au/agriculture-food/levies/other_levies/forest__and__wood_products2/rates

114 http://www.daff.gov.au/agriculture-food/levies/other_levies/forest__and__wood_products/rates

115 http://www.daff.gov.au/forestry/national/industries

116 Report of the Royal Commission into Gambling 1974, p. 72

117 Australia's Future Tax Review, Dr Ken Henry, p153, PDF

118 http://www.audit.vic.gov.au/reports_and_publications/latest_reports/2010-11/20110629_electronic_gaming.aspx

$5,500. In this instance, over $50,000 p.a. could be seen as economic rent – money for hospital beds forgone.

The Age stated "The Melbourne Football Club's board allocated $4 million for 92 machines at the Leighoak club, but ended up paying just $370,000."[119]

Three and a half million dollars were spent on consultants for the auction design process.[120]

Calculations

The Queensland Treasury provides the best data on the industry in its Australian Gambling Statistics 28th Edition (Summary Tables). There are 198,725 poker machines in operation nationwide. The latest figures find a net gambling surplus (losses – winnings) of $18.45bn (09-10).[121] A 40% Resource Rent on the surplus delivers $7.38bn. Existing gambling revenues brought in $5.1bn in 10-11.[122]

Public Transport providers

The calculations for this industry are an estimate based on Metropolitan Transit Rail's (Hong Kong) annual report. MTR operates the train network for Hong Kong and now runs Melbourne's trains under a joint venture. With HK's population of just 7 million people, MTR has delivered EBITDA profits in excess of $A1.5bn p.a over the last five years.[123] Government approval of development rights above train stations has played a major part in a profitable public transport system.

Such new land re-zoning gives MTR the ability to develop and on-sell (or rent out) a development such as a shopping centre with apartments above certain stations. The public transport system benefits when such land rents can be used to finance fixed costs (new railway stations, lines). Ticket sales are used only to cover the smaller marginal costs. In urban planning this is known as Land Value Capture.[124] Revenue from such new development rights will constitute the majority of their government contribution. A number of nations throughout East Asia utilise Land Value Capture for profitable rail outcomes.[125]

Calculation

The eight major city public transport systems are expected to contribute $2.4 billion to Australian governments. No company, sales or payroll tax is paid in return. Sydney's RailCorp paid $74 million in payroll taxes and fringe benefits in 2010 – 11.[126]

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119 http://www.theage.com.au/afl/afl-news/pokies-deal-sparks-afl-clubs-feud-20100512-uy3z.html

120 op cit, Victorian Auditor General, p59

121 http://www.oesr.qld.gov.au/products/publications/aus-gambling-stats/aus-gambling-stats-28th-edn-summary-tables.pdf (Table D)

122 ABS 5506, table 18 (2010-11)

123 http://www.mtr.com.hk/eng/investrelation/financialinfo.php

124 www.prosper.org.au/wp-content/uploads/2012/12/LVC_Primer_final.pdf

125 http://www.osmose-os.org/cgi-bin/index.pl?mode=1&ID=39&type=1

126 RailCorp Annual report 2010-11

Part IV - The Frontiers of Monopoly

Patents on Life

Dr. James Watson, co-discoverer of the double helix structure of DNA:

> "... DNA's importance flows from its ability to encode and transmit the instructions for creating humans. Life's instructions ought not be controlled by legal monopolies created at the whim of Congress or the courts."[127]

As biotechnology blooms, a legal debate is underway around the world as companies rush to privatise genome sequences. The ethical considerations of monopolising the building blocks of life for profit must be debated.

MP Malcolm Turnbull wrote:

> "Companies holding these patents are able to charge very high fees to anyone who wants to test to see if the gene exists within their own body. They have, in effect, taken out a patent of part of ourselves. A company holding such a patent is also able to prevent any other person from conducting research on that isolated gene sequence."[128]

In Australia, Genetic Technologies Ltd has used their license over gene's BRAC1 and BRAC2 to challenge the legitimacy of breast cancer research at the Peter MacCallum Hospital.[129]

The company has so far earned $73 million in contracted revenue from licenses to the technology in 24 countries.[130]

Australian courts have accepted the 'manner of manufacture' test to support Genetic Technologies development rights.[131]

If at all allowed, the legal privilege for such a monopoly right must require that a fee is paid back to the community for this encircling of the commons.

The same principles apply to patents of plant and animal life, nanotechnology.

The rising threat patent thickets play in creating barriers to competition must be considered in a genuine free market.[132]

The ABS calculates private Research and Development, a proxy for patent values, at $12.98 billion (07-08). They state "Patent lives do not necessarily represent the lives of all R&D

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127 http://www.reuters.com/article/2012/08/16/us-myriad-patent-idUSBRE87F12K20120816

128 Read more: http://www.smh.com.au/opinion/society-and-culture/humanity-fights-for-ownership-of-its-soul-20101102-17c9d.html#ixzz2CSoGwNbc

129 http://www.abc.net.au/7.30/content/2009/s2561751.htm

130 http://www.lifescientist.com.au/article/416132/gene_patents_challenged_court/

131 http://www.alrc.gov.au/publications/6-patentability-genetic-materials-and-technologies/patentable-subject-matter

132 http://faculty.haas.berkeley.edu/shapiro/thicket.pdf

products and, in principle, an adjustment should be made to account for the fact that not all R&D is patented." [133]

Calculations

As R & D depreciates and includes non-patented development, a minimal 0.005% charge on R & D (proxy for patent) values was placed on the 07-08 ABS valuation of $12.98 billion. This delivers $64.9 million, with annual valuations of this legal privilege to be provided into the future.

Cyber Squatting

This is the practice of purchasing a domain name which a related businesses will one day see value in. This practice has seen domains such as fridges.com.au sell for $20,000, sextoys.com.au for $25,500 and investmentproperty.com.au for $125,000.[134]

On July 1, 2007, it was reported that Apple paid at least US$1 million to Michael Kovatch for the transfer of the iPhone.com domain name. Kovatch registered the domain in 1995.[135]

No economic value is added by the middleman acquiring the domain. For a purchase price of as little as A$1, any price above this is a pure economic rent.

A recent controversy saw the MirandaKerr.com.au domain name taken by cyber squatter James Wester. He claims ownership of 6500 domains in his portfolio worth an estimated $16 million, averaging $2,462 each.[136]

According to Deloitte Access Economics, in August 2011, total domain names on the register in Australia reached 2.18 million (figure 13). Over the year to August 2012, they have grown by 13.8%, now totaling over 3 million.[137]

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133 http://www.abs.gov.au/ausstats/abs@.nsf/Products/5310.0.55.002~September+2009~Main +Features~Chapter+6%20Research+&+Development?OpenDocument

134 http://www.netfleet.com.au/research/

135 http://blog.domaintools.com/2007/07/iphone-now-owned-by-apple/

136 Read more: http://www.smh.com.au/technology/technology-news/saga-of-miranda-and-the-altruist-accused-of-cyber-squatting-20110914-1k8ql.html#ixzz2Bz7qcPVB

137 http://www.auda.org.au/news-archive/auda-17012012/

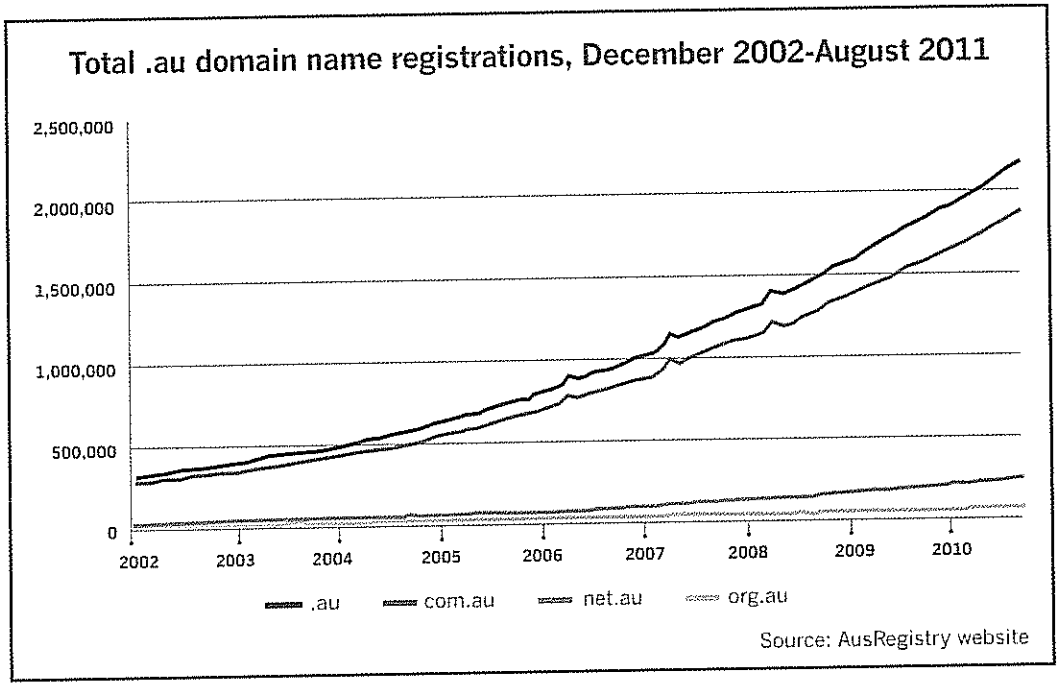

Figure 13

Reflecting investor interest, Mark Lye, the CEO of NetFleet (a leading Australian domain sales portal) glanced around an informal gathering of cyber squatters at a pub, and claimed those present owned 150,000 domains.[138]

Another monopolist of note in the fast moving internet marketplace is Verisign, the US monopolist who verifies .com, .net, and .name generic top-level domains. As far as known, this immense monopoly power was handed to the company by the US government for free in the cottage stage of internet development.

The general public must understand that such a legalised monopoly is bound to deliver economic rent to those with 'gatekeeper' powers. A fee based on the economic value of the license makes economic sense as a return on the legal privilege.

In positive signs for IT economics, the initial price to apply for the newly released generic top level domains (gTLD) will be $185,000, with an annual fee of $25,000.[139] The $25,000 fee acts as a holding charge, deterring would-be cyber squatters.

Calculations

An average $100 holding charge per domain name would be a starting point for deterring this behaviour. Higher rates would be levied on '.com.au' than '.net.au' as the dot coms represent premium Australian web locations. Such a charge will see the price of squatting domains drop as the longer held, the more charged. It becomes uneconomic to hold a dormant domain unless revenues are earned, encouraging productive economic use. Taxes on economic rent are unique in that they take away scarcity rents, rather than pushing up prices.

On 3 million domains, we have calculated the domain industry will deliver $300 million to the government.

In pursuit of simplicity, rather than taxing bona fide users, cyber squatting could be eradicated by requiring a domain name not based on a registered business name to be

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138 Virtual Australian Property Boom article 21/09/2012 (http://www.technologyspectator.com.au/virtual-australian-property-boom)

139 http://en.wikipedia.org/wiki/Generic_top-level_domain

vacated in favour of the registered company or business name owner. The voluntary complaints system at present is reactionary rather than preventative.[140]

Satellite Orbits

Another example of the commons being given away for free is the right to operate satellite orbits over Australian airspace.

> "The international regulation of telecommunications dates back to the International Telegraph Union in 1865, which later evolved into the International Telecommunications Union (ITU). A key issue in international regulation concerns orbital 'parking spots', particularly the coveted 'geostationary gold', which are allocated by the ITU. The ITU confronts a dilemma between states already occupying slots and newer entrants, typically developing countries, which argue early users enjoy an unfair advantage and call for abolition of the currently existing 'first come, first served' policy (Martinez 1985)."[141]

> "Intelsat's 433 earth stations, comprising 79 per cent of those capable of transmitting international traffic, give it a near monopoly status... It owns and operates a fleet of 25 high-powered spacecraft in geosynchronous orbit, far more than any other network; indeed, Intelsat boasts of being virtually the only truly global satellite system. Most international telephone calls (which generate two thirds of its revenues) are routed through Intelsat's satellites, each of which carries tens of thousands of voice circuits."[142]

The Space Foundation estimated in its *Space Report (*2009) the industry generated revenues worth approximately $257 billion in 2008, from public and private sources.[143]

Calculations

The Australian economy is widely quoted as producing 2% of global GDP. Australia's two percent of the satellite industry's $257 billion is $5.1bn. A 10% Resource rent sees a $510 million contribution. This is conservative when considering the immense growth in data traffic since the calculation of these 2009 figures.

Internet Infrastructure

The ability to communicate online at least cost should be seen as a fundamental element to our freedom of speech. That public policy has allowed private interests to control this essential instrument of communication will be closely questioned in future.

The cost of installing Australia's National Broadband Network (NBN) is $43 billion. Existing internet infrastructure is estimated at half that value.

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140 http://www.auda.org.au/news-archive/12092011/

141 Geopolitics of the Satellite Industry, Barney Wharf, 2006

142 ibid

143 Space Economy in the UK, BIS Economics Paper No3, Feb 2010

Calculations

A $64.5 billion asset base at a 10% resource rent sees a $6.45bn contribution from the industry, including NBN and internet service providers such as Bigpond, Optus and Iinet.

Banking Licenses

This section could well have its own report, as the publicly granted privilege to create money out of thin air is priceless. Under the current system, as Professor Michael Hudson has stated, "a property is worth whatever a bank will lend, because that is the price that new buyers will be able to pay for it."[144] The proposed reforms significantly reduce banks ability to profit from capitalised land rents. As a major proportion of their loan book, a reduction in property prices will affect their asset base.

In positives for the banking industry, a surge in commercial activity will be delivered as the removal of company taxes and council rates on improvements delivers discretionary income to both consumers and companies. Capital freed from the mortgage market will reduce pressure on interest rates, assisting small business. Export and manufacturing will benefit from lower tax and compliance burdens, stimulating international competitiveness. Banks will return to their traditional role of judging risk and return on productive activities. Property development of idle locations will see a boom in construction activity. Banking shareholders will appreciate a more stable economic system with less speculative booms and busts.

Calculations

Profits for the big four banks totalled $27.278 billion (cash basis, 2011-12). Dividends paid equaled $16.149bn. A 40% resource rent on these earnings (cash profits plus dividends) delivers $17.371 billion as a return on the priceless value of a banking license. With the inclusion of the rest of the banking industry, the burden on the big four banks will fall. Millions in savings will be delivered to the banks with a simpler tax system requiring less accounting resources.

Part V - Existing Government Revenue

Whilst the vast majority of Australia's 126 existing taxes are to be removed, some revenues will remain.

The vehicle and drivers license contributions of $5.2bn are based on current budget earnings. Ken Henry rightly pointed out in *Australia's Future Tax System* that vehicle licenses were highly regressive. In time economic rents could be channelled to fund the accident insurance component, helping to reduce the registration cost.

The sin taxes on alcohol and tobacco are conservatively listed at 2011-12 revenues. Liquor licenses deliver $4bn according to the same standards. [145]

Carbon Taxes have increased from $4020 to $18,220 million by moving the petrol and diesel excise taxes at source, meeting efficiency outcomes. The revenue should be raised by a carbon tax based on the heat content burnt as measured by the BTU - the British Thermal Unit.[146] The influence of lobbyists on the EU Emissions Trading System (see grandfathering) will undermine its effectiveness for years to come. A carbon tax gives more pricing certainty.[147]

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144 http://michael-hudson.com/2012/12/americas-deceptive-2012-fiscal-cliff/

145 op cit, http://www.budget.gov.au/2012-13/content/bp1/html/bp1_bst5-06.htm

146 http://www.carbontax.org/introduction/#what

147 http://www.carbontax.org/issues/carbon-taxes-vs-cap-and-trade/

Non-government taxation receipts were $20.323bn in 2011-12. This was calculated at a 50% discount as a conservative measure to deliver $10.162bn, further underpinning the ability of the tax system to meet our revenue objective.

Parking Fees

The Melbourne City Council received $39 million in parking fees last financial year.[148] A $250 million national contribution to government revenues is a conservative figure when considering all capital cities, suburbs and regional cities. More data is needed in this area. An improved infrastructure financing system will reduce car reliance as train scheduling increases and walking proximity improves.

Government Expenditure Savings

Tony O'Brien wrote in his landmark Total Resource Rents of Australia report :

> "Potential savings from the introduction of a Site and Resource Rent system and the removal of all other taxes could be extremely large, approaching one third of total current government outlays.
>
> Many of the following expenses would be greatly reduced or in some cases eliminated:
>
> - the cost of assessing, collecting and endeavouring to prevent the evasion of existing taxes
> - the cost of relieving involuntary unemployment and poverty which will decline and disappear as employment revives
> - the use by governments of tax concession and other privileges as "sweeteners" to solicit or hold large corporations.
> - the cost of land acquisition for public purposes."[149]

In 2001/2, revenue required for all three levels of Australian government was $217.909 billion.[150] By 2011/12 this had increased to $390.067 billion, an increase of 34.3% in real terms.[151] We are taxing the wrong things, causing more problems than solving them.

The immense Pharmaceutical Benefits scheme of $9bn could shave billions from the Government budget if economic rents were discouraged in the industry. The pharmaceutical industry is well known for its secretive behaviour. If more was known of their profit margins, governments could act to ensure only a reasonable return was achieved.[152]

The Grattan Institute writes that $1.3bn could be saved by pushing for generic brands to be priced at closer to international benchmarks.[153] That is another way of saying Australia needs to remove the economic rents pharmaceutical companies are claiming. With the health sector

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148 http://www.melbourne.vic.gov.au/AboutCouncil/PlansandPublications/Documents/Annual_Plan_Budget_2011_2012.pdf p62

149 http://www.earthsharing.org.au/facts-and-figures/australias-resource-yield-2000/

150 http://www.abs.gov.au/ausstats/abs@.nsf/mf/5506.0

151 ibid

152 https://theconversation.edu.au/patent-controversy-its-time-big-pharma-took-its-medicine-2697

153 https://theconversation.com/fixing-australias-bad-drug-deal-could-save-1-3-billion-a-year-12707

such a growing share of our economy, this is an important qualification. These possible savings have not been included.

Welfare

With lower land prices amidst a low taxation regime, small business will flourish. With less paid for rent as vacant commercial premises are coerced into use by holding taxes (land tax), there is room for wage increases. As a counter to the economies of scale big business enjoys, large big box stores will soon find themselves under pressure with large landholdings (car-parks) inferring higher Land Tax payments than a traditional suburban shopping strip hardware store. With such a spur to small business, demand for labour will rise, shrinking the pool of the under-worked and unemployed. The natural consequence is less need for welfare. Our $89 billion welfare budget could be expected to shrink, although it must be noted that barely $6.1 billion is used for Newstart.[154] We expect at least a 10% drop in these welfare payments. As we cannot model this, we have not included this possible saving in our calculations.

Part VI - Conclusion

Importance of Land to the economy

Businesses listed on the Australian stock exchange are capitalised at some $1.38 trillion. According to the system of national accounts, Australia's land is worth some $3.6 trillion - nearly three times the value of the stock exchange.

Land is a major factor in our economy, yet we talk about 'house' prices. Houses depreciate. Land's locational advantage delivers the rise in property values.

But land has been removed from our CPI.

> "In 1997 the RBA argued strongly to remove the price of land from the CPI in its submission to the 13th Series CPI review. The RBA argued that including a mortgage interest component in the CPI would result in an inflation measure that is amplified by monetary policy responses to inflation itself."[155]

Land prices have also been enlisted to undermine our perception of productivity.

> "The ABS believes that the exclusion of non-agricultural land biased the measure of MFP (multifactor productivity) downwards in the past. But this only applies to the situation where the value of land assets grows with inflation. When land values significantly exceed inflation, which has especially been the case since 2001, the capital stock component in the denominator of the MFP calculation increases, for no particular reason."[156]

Land is a central element in economic activity. Without it we cannot work and live. Our economic framework must explicitly acknowledge and measure the contribution it makes.

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154 ABS 1301 2012 Yearbook

155 http://www.macrobusiness.com.au/2011/09/how-the-cpi-hid-the-housing-bubble-2/

156 Cameron Murray Land Boom Ruins Productivity Measure http://ckmurray.blogspot.com.au/2012/06/land-boom-ruins-productivity-measure.html

Land related debts effect local communities

Over the last year, the average first home own loan has averaged a staggering $290,000.[157] First home owners in Australia in the decade of the 1990s had mortgage debt closer to $100,000 than the $200,000 in the 2000s.[158] The difference in repayments is money lost to local communities. The multiplier effect of high land prices sees less money spent in local communities. This filters through to less dining out and thus lower employment and investment.

However, banks can use this cash flow to speculate in the carry trade, buying and selling foreign currencies or investing in real estate itself. This is a leakage from local communities into centralised corridors of wealth and power.

An element suppressing economic development is the role played by council rates. State by state there is pressure on councils to raise revenues by Capital Improved Valuation (similar to Net Annual Valuation). This sees a charge on the land and improvements (the building). In effect, it sees the family home paying approximately 30% more than a neighbouring land banker.[159] This tax on housing impinges development, lowers employment, retail investment and local economic activity. Sprawl is encouraged with the accompanying leakages. Site Value Rating (on the land only) is fairer in that both the family and land banker contribute at the same rate in the dollar. The banking system will further benefit from the removal of this deadweight, with vacant inner city locations prompted to redevelop more quickly and comprehensively. The leads to higher employment in SVR municipalities.[160]

Farm Land

The principle of leasing natural resources can be applied to farming land. Farmers live furthest from the major activity centres, so in most cases will face a lower land valuation (and a lower tax burden) than those in the CBD.

Land values oscillate with the health of the economy and the environment. Reflecting reality, farmers would pay slightly more land tax in good years. A drought will see less paid as the land has lower productivity. Yearly assessments will assist this process, aiding the flexibility needed for a carbon challenged future.

More study is needed on the higher capital gains enjoyed by urban land owners. Rural tax payers understand there are inequalities between themselves and city dwellers. Few are aware how significant this is. Public infrastructure expenditures on roads, hospitals and communications technology are often pointed out as a source of disparity in terms of service alone.

The effect on land *values* is more significant. Author of *Ricardo's Law*, Fred Harrison argues that in just a few years of a property boom, urban landlords recapture a lifetime of taxes through the capital gains on just one property.[161]

The nominal value of such capital gains is much lower in rural areas. Despite paying the same income, company and sales taxes, urban property owners benefit to a greater extent than rural owners from the naturally rising value of their location - a subtle form of subsidy.

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157 http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/5609.0Mar%202013?OpenDocument

158 http://www.abs.gov.au/ausstats/abs@.nsf/mf/5609.0

159 http://www.prosper.org.au/rates/

160 http://www.prosper.org.au/wp-content/uploads/2008/08/electedrepfinal08.pdf p8

161 http://www.youtube.com/watch?v=6ZkfmY1PMng

Under a resource rent system, lower land values in rural areas will re-balance this equation. Significant incentives to decentralise out of cities and back to the countryside will exist due to lower land rents. In urban locations, there will be a concentration of activity closer to productive sectors as land taxes deter speculation and thus the need for sprawl.

Conclusion

The failure of the economics profession to recognise the importance of economic rent has undermined its relationship with common sense and simplicity. The debilitating influence of monopoly capitalism on democracy has enabled vested interests to avoid tax whilst pushing costly methods of finance upon the people. The disjoint between hard work for most and easy profit for others has ensconced a form of cognitive dissonance where euphemisms such as 'tax minimisation' are practiced by those who advocate the need for a more efficient society. It is as if we are living in an age of entitlement to the free lunch for the lucky few. Society has been conditioned to ignore economic rents as an entitlement too big to rail against.

Economic rents have largely been ignored because economists deemed them politically sensitive and insignificant. This report sheds light on 23.5% of the economy that delivers (virtually) tax free profit for little risk or effort. If rising inequality is a threat to our democratic foundations, then this is the source of that discontent.

In time, more will recognise that by focusing the tax base on assets that naturally rise in value due to society's own existence, property bubbles can be moderated to channel the desire for somewhere to live into something useful - the financing of government in a just and equitable manner.

This can deliver a three for one outcome:

- higher wages
- lower land and housing costs (less debt)
- cheaper cost of green goods

The first economy to raise public finance in this manner will enjoy a considerable export advantage due to the lower overall cost structure of doing business.

The global land bubble locked many into a lifetime of debt. The economic foundations that fostered such bubbles then proceeded to undermine economic growth with ineffective austerity. It is time the people looked at a genuine alternative – harnessing the powers of monopoly to fund a land of opportunity.

www.prosper.org.au/evidence

www.prosper.org.au/join/

Glossary

Classical economists: The economic era defined by the work of the 18th century Physiocrats, through to Adam Smith, Ricardo, JS Mill, Karl Marx and Henry George. They defined output as reliant upon three factors of production - land, labor and capital. Neo-Classical economics defined the factors of production as labor and capital, with land (representing the earth) as a subset of capital.

Economic Rent: Originally explained by economist David Ricardo (Ricardian rent) as the excess return to some agricultural land- due to its favorable characteristics such as soil fertility, rainfall, access to markets, etc.- from the same effort compared to the output of the least productive land. JS Mill called the excess return from the same effort the "unearned increment". The term economic rent has been expanded to include all unearned income from ownership of a resource, from a monopoly, from natural scarcity, or any other reason resulting in unearned excess profits not due to work, risk or enterprise. It is also defined as the excess revenue over and above what it takes for a business to reap normal profits. This is the origin of the derogative term "rent-seeking", referring to people who reap where they did not sow.

A simple example of economic rent is the recent run-up in oil prices. It has been estimated that oil from the most expensive wells in deep ocean water cost about $60 per barrel to extract including all other costs and normal profit. Easier-to-extract oil costs much less. At the 2008 price of $147 dollar per barrel, oil companies received economic rent of at least $87 per barrel on deepwater wells. The source of their "windfall profits" is economic rent.

Resource rents: Economic rent in relationship to natural resources. Identifying and measuring (or collecting) resource rent depends on the availability of information, market conditions, technology and the system of property rights used to govern access to and management of resources.

Land tax: An annual charge based on a set percentage of the valuation of land. With land naturally rising in value according to population and technology developments, many economists see it as a natural source of government revenue. Land must be valued annually.

Land value tax: Similar to land tax, it merely recognises that land prices will fall back to what can actually be earnt from a location, reflecting its value. Land price includes bubble-like pressures on price. Land values are calculated by property valuers for municipal rates. Generally speaking, they are more conservative in valuations than surrounding property sales evidence may indicate, due to their preference for land values over prices.

Monopoly: The market dominance of an industry by a single entity. In this report, the term is used widely, sometimes in place of the more cumbersome 'oligopoly'. Oligopoly infers the market control of an industry by a small number of firms.

Deadweight costs: The loss to society caused by market distortions that see less product supplied to market at a higher cost. Usually due to taxes that can be passed on.

Compliance costs: The burden of filling out tax paperwork and complying with regulation.

Sales tax: A percentage charge on the cost of goods purchased. Known as the GST (Australia), VAT (EU), Sales Tax (US).

Stamp Duty: A form of sales tax paid at the point of a housing transaction, paid by the buyer.

Common Wealth: Monetary and non-monetary value of the commons in supporting life and well-being. Like stockholders' equity in a corporation, it may increase or decrease from year to year depending on how well the commons is managed.