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# The geography of corporate tax avoidance

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Weenpincally examine the relation between firms' head parters location and their level of taxavoidance. Employing multiple measures of taxavoidance, we consistently find significant location fixed effects on firms' tax behaviour across different geographic access in the US, after controlling for firm fixed effects, time varying firm characteristics and state income taxaves. Additional analyses show that location fixed effects are note procurred for firms that have been located in an area for a longer period and that have lower geographic divestification. We then explore a range of regional characteristics as determinents of location fixed effects and firm location specific resources and his states, but not cultural factors, are associated with time invariant differences in corporate tax avoidance across regions. Our study has important practical implications for taxauthorities, suggesting that taxes forcement, education, and impediors should be tailored to take account of firms' geographical location.

: taxavoidance geographic area location fixed effects, location based characteristics

Geographical location affects individual decision making leading to uneven distributions of economic and social outcomes such as innovations, health, crime and violence, as well as pro-antlanti-social behaviour (eg, Shaw&McKay, 1942, Land, McCall & Cohen, 1990, Jaffe, Trajterberg & Hendeson, 1998, Glasser, Sacedote & elamel of TaxResearch

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## questionable tax strategies and legitimate means to reduce tax burdens, it is important

Afterestablishing significant location fixed effects, we investigate whether these effects are associated with observable regional chracteristics. Specifically, we regress the vectors of estimated MSA fixed effect coefficients obtained from the EIR, CEIR, UIB, and CEIR5 models on that particular MSA's (1) information and resource factors (possied by workforce population, education level, external accounting and finance expertise from and the finance of the external accounting and finance expertise from and the finance of the external accounting and finance expertise from and the finance of the external resource factors (2) economic, regulatory, and behavioural risk attitudes (as captured by average personal wage, GDP per capita, proximity to IRS, and weather pattern); and (3) social and cultural environment (including come rates and religiosity).<sup>1</sup> We find

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literature to examine whether firms' geographic locations help explain pessistent variation in tax avoidance that prior research has found across firms (Dyreng et al., 2008).

Orstuly is related to two recerts turies (Crenet al., 2022, and Suet al., 2019) which examine the relation betweing cographical location and tax avoidance. Suet al. (2019) finds a negative effect of geographic dispession on tax avoidance as the result of increased difficulty ininitia firminitianal control and composed governance. Chenet al. (2022), on the other hand, show a positive effect of geographic posimity between parent companies and subsidiaries on tax avoidance through intragroup increases fifting to low tax jurisdictions at lower costs. Both sturies focus on the posimity/dispession of firms or units in the same composed goup and how geography facilitates the internal information flow and condination. Our study differs from their work as we focus our attention on investigating whether geography is an important factor influencing the tax avoidance of provinate firms regardless of whether they are in the same composed structure. We also examined the relation of compate tax avoidance with location based rescure, economic, risk and culture factors, rather than the geography-related internal information and condimition effects on composed tax strategies.

The geographical effects on corporate decision making have been well documented in many settings. For example, investors have stronger preferences for geographically local investment (e.g., Baik, Kang & Kim, 2010). Dockas & Pantzalis, 2003); autitors provide higher quality autit services to local clients (e.g., Orci et al., 2012); analysts are more accurate in forecasting the performance of geographically provinate firms (e.g., Malloy, 2005); anthegulators are none likely to investigate firms that are located closer to their local offices (e.g., Kedia & Rejgopal, 2011). The systematic geographic differences are also present in firm performance and corporate decisions, including innovative activities (Aurletsch & Felchan, 1996). Jaffe et al., 1998), dividend decisions (Johnetal., 2011) arise (

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Thegeography of component activity of the second se

## implementation of taxstrategies. Thus, the information and resource charmel suggests



EIR, CEIR, UIB and CEIR5 \_\_ aetaxaoidaneneasues for a finni inyer t IOC is armainvaible of interest, an inicator vaible for the grogaphic urit, i.e., MSA, in armain regession, where we denote each specific urit (location fixed effects). If the coefficients on LOC are jointly significant, the results will support or hypothesis FIRM

squared by approximately 1.2 procentage points. The sizes of the incremental explanatory powerficent/MSA fixed effects are similar for CEIR and CEIR5 as shown in Parels B and D. The impact of MSA fixed effects on the R-squared is consistently larger than that of year fixed effects, which could mean that regional variation is more statistic on the particular coefficient is significant based on two sided tests. Table 4 (Significance Levels of MSA Fixed Effects, Appendix) presents the numbers and percentages of individual MSAs with statistically significant fixed effects from Model 6 in Table 3 (for EIR, CEIR, UIB, and CEIR5 respectively). geographical features tend to influence films' tax decisions in a similar way. Results also indicate that there is no clear pattern of location fixed effects dominating in one period of time

The fifth set of tests at less on itted vaiible issues. We control for coposite governme factors, such as board size, pacentage of independent ductors, garder diversity on the board CEO and chair duality, and CFOs' board membership and CFO total compensation (Amsterget al., 2015) Gaverner, 2014). The location fixed effects remain significant after we include in Equation (1) executive fixed effects (Dynerget al., 2010) Yorker, 2017).

Weeped location fixed effects to be storger for firms with lengthier durations in their outer the location and lover geographic diversification. We perform two cross sectional tests by partitioning the sample based on how long the firm has been in a given location and whether it has material subsidiaries in another US state and/or foreign country. Table 5 (MEA Fixed Efficities Variation Length of chinalisation and Soling aprical Diversification, Appendix) presents the results

First, we test location fixed effects an corporate tax avoid me when the firm has been located in the same MSA for more than the eyeans (Long) or less than requel to the years (Short). As shown in Parel A of Table 5, we find that the location fixed effects are highly significant for the Long sample and less or even not significant for the Short sample, which is consistent with location fixed effects being affected by the length of time a firm has been located in a given location

We conjecture that the location fixed effects could attenuate for geographically diversified firms with a material presence in locations other than their headparters 0 **10**/2016/10 Thistis solid case file Badaila MoV (10000 diversified firms' subsidiaries could dilute the location fixed effects from the headparters. We can interfrispossibility using data collected by Scott DD yareg from Exhibit 21 in 10K filings formaterial subsidiary disclosures <sup>7</sup> The main samples are divided into firms the theven aterial subsidiaries in at least one state or country other than the headparter location in a given year (Diversified) and those thet donot (Nignott

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Sofa; we have do une ned significant spatial variations in corporate tax avoidance To further undestand the geographic effects on tax avoidance behaviou; we examine some possible channels through which geographic locations might affect tax avoidance decisions. Accordingly, we obtain demographic, social, economic, regulatory, and 46925 and the mean arnual personal income USD 41,814. The weighted average education level of workforce population incur samples wings from 7.26 in the bottom percentile to 7.78 in the top percentile. The median average or invester is 3.45% of the

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- Goetznam, WN & Zhu N 2005 'Reinorshine Where is the weather effect?', European Financial Management, vol. 11, no 5 pp 559578
- Guenther; D.A., Matsunga, S.R. & Williams, B.M.2017, 'Is tax avoid mendated to fimmisk?', The Accounting Review vol. 92, no 1, pp 115 136
- Gupta S & Newberry, K 1997, 'Determinants of the variability incorporate effective taxaates Evidence ficon longitudinal data, Journal of Accounting and Public Policy, vol. 16 no. 1, pp. 1-34
- Harlon, M&Heitznan, S2010, 'A review of taxies saidh, Journal of Accounting and Economics, vol. 50, nos 23, pp. 127, 178

Hasan I, Hoi, CK (S), Wu Q& Zhang H2017a, 'Does social capital matter incorporate decisions?

EIR	29,298	0315	0174	0241	0335	0381
ŒIR	<b>29,298</b>	0259	0227	0102	0241	<b>03</b>
UIE	18,925	0012	0023	0000	0004	0013
ŒIR5 ~	20,707	0256	0119	0180	028	0338
SZF	<b>29,298</b>	<b>5988</b>	2004	<b>4616</b>	6083	7364
ROA	<b>29,298</b>	0129	0107	0057	0102	0169
NI	<b>29,298</b>	0412	0492	0000	0000	1000
NI	<b>29,298</b>	0111	0390	0000	0000	0010
LEV	<b>29,298</b>	0201	0198	0015	0168	0330
F	<b>29,298</b>	0018	0087	0000	0000	0021
<b>GHE</b>	<b>29,298</b>	0489	0366	0200	0395	0699
INIANG	<b>29,298</b>	0161	0182	0010	0028	0267
EQIN	<b>29,298</b>	0001	0004	0000	0000	0000
ME	<b>29,298</b>	2969	3379	1331	2141	3533
<b>R&amp;D</b>	<b>29,298</b>	0085	0059	0000	0000	0084
CASE	<b>29,298</b>	0162	0177	0027	0095	0210
CAPEX	<b>29,298</b>	0128	0097	0062	0100	0163
AD.	<b>29,298</b>	0011	0086	0000	0000	0008
SG8A	<b>29,298</b>	0239	0167	0112	0212	0330
SALES	<b>29,298</b>	0154	0281	0013	0098	0215
INSIPERC	<b>29,298</b>	0575	0328	0413	0695	0823
MKIPRES	<b>29,298</b>	1947	4777	0000	0000	2000
ANALYSI	<b>29,298</b>	1796	1470	0000	2079	3015
ALCCAL	<b>29,298</b>	0594	0590	0000	1000	1000
SIR	<b>29,298</b>	6774	3082	6000	7500	<b>881</b> 0

This Table reports descriptive statistics for the variables used in our main analyses. All continuous tax and control variables (except for STR) are vinsorised at the 1% and 99% level to mitigate the influence of outlies. All variables are defined in Parel A of Table 7. \_\_\_\_\_

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	(-1477)	(-1411)	(-241)	(-654)	(-1339)	(021)
INIANG	-0081***	-0015	-0051***	-0022**	-0082***	-0016
	(-344)	(-169)	(-269)	(-212)	(-353)	(-081)
EGIN	-1036***	-0999***	-1233***	-089***	-0919***	<b>-1.131</b> **
V	(-349)	(-339	(-279)	(-269)	(-316)	(-255)
ME	-0001***	<b>CO1</b> ***				

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	(223)	(313)	(-144)	(130)	(209)	(-037)
SG8A	0077***	0078***	0028	0056***	0074***	0088***
	(11.21)	(11.45)	(195)	(692)	(1041)	(27)
SALES	-0055***	-0065***	-0026***	-0051***	-0061***	-0025***
	(- <b>146</b> )	(-1436)	(-7,49)	(-11.83)	(-1380)	(-717)
INSIFERC	0016***	0080***	-0002	0014***	0014***	0013***
	(536)	(954)	(083)	(457)	(475)	(418)
MKIPRES	0001***	0001***	0000	0000**	0001***	0000
	(399)	(444)	(1.57)	(246)	(409)	(088)
ANALYSI	-0008***	-0008***				
	(-877)					

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NLCCS	198	198	198	198	147	130	156	146
RSQ	0490	0621	0457	0529	0827	OSEB	0750	0822

### Thegeography of compare tax avoidance

# Dependent Variables

	120	0271	0228	0211	0285	0318
	120	0767	0265	0681	0807	0892
	86	0021	0014	0012	0022	0027
	77	0159	0107	0092	0172	0224
Integentert Variables						
IPOF	120	12791	1,205	11.910	12685	13707
IWACES	120	10623	0183	10488	10609	10729
ICIF	120	10718	0270	10551	10723	10872
FDL	120	7510	0362	7261	7.475	7781
CRIMES	120	3436	1080	2728	3445	4021
RELICION	120	0653	0082	0607	0650	0705
IAUDICR	120	0656	0767	0000	0347	1409
IDISTANCEIRS	120	3711	1954	3483	4283	<b>481</b> 0
LWEATHER	120	9696	0110	9595	9678	9797
LOSIFIRMPCI	120	0067	90082	0014	0035	90082

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	1									
	1									
	-001	21								
		-0013	1							
IFCF			-0017	1						
LWACES	00353		0051		1					
IGDF			-0014			1				
FDL	0052	-0015					1			
CRIMES		-0008						1		
RELIGION	0017 -008	3							1	
LAUDITOR	-0056									1
LUISIANCEIRS										

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RSQ	0084	0098	0168	0076
Ftest	1.17	165	<b>243</b> **	100

\*, \*\*, \*\*\* represent statistical significance at the 10% 5% and 1% levels, respectively.

Parel A reports descriptive statistics for regression of MSA fixed effects and MSA characteristics. Parel B reports Peason conclusion coefficients for the variables used in Equation (2). All variables are defined in Parel B of Table 7.

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The coefficients estimated when UIB is the dependent variable in Equation (1)

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Incrnainsample, weedure firmyear observations with regative pre tax income following prior studies (Dyang et al., 2010). Kubick et al., 2017), which results in a significant reduction in the samplesize. This section tests the sensitivity of corresults to including those loss observations. Specifically, we employ an usare of corporate tax avoidance that uses the market value of assets in place of pre-tax income in its deroninator. Or measure of EIR, is calculated as the difference between cash taxes prid and the poduct of pre-tax income and the corporate statuto y tax rate, scaled by market value of assets (Henry and Sansing 2018). EIR uses GAAP tax expense instead of cash taxes prid of EIR5 is OEIR

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Ν	55,226	55,226	55,226	55,226	55,226	55,226
NYEARS		24				24
NFIRMS			7,559			7,559
NINDS				371		
NLCCS					330	330
RSQ	0274	0289	0521	0288	0285	0535
T						
Jontsignin						
MEAN		<b>3605</b> **				5181***
FIRM			355***			354***
INC				<b>32*</b> **		
1.01 (M6A)					281***	220***
Ν	55,226	55,226	55,226	55,226	55,226	55,226
NYEARS		24				24
NFIRMS			7559			7,559
NINDS				371		
NLOCS					330	330
RSQ	0308	0318	0554	0318	0314	0569
JointSigrifi	cance(F-stati	istics)		~		
YFAR		37.99***				<b>9573</b> ***
FIRM			1087***			1092***
INC				<b>1661</b> ***		
101 (MBA)					825***	337***

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Thegeography of compare tax avoidance

## Ormainfindings of the location fixed effect on corporate taxavoid an early based on the basic geographic unit, MSAs. We also consider alternative

Thegeography of corporate tax avoid me

YFAR		11.59***						1221***	1208**	1078***
FIRM			<b>254</b> **					254**	251***	252***
INC				298***						
LOC (state)					267***			1.55**		
LCC (carty)						217***			<b>161</b> ***	
LCC (zipcode)							205***			<b>18</b> ***
CONIRCLS	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
N	29293	<b>2929</b> E	<b>2929</b> E	29293	<b>2929</b> E	<b>2929</b> E				
NYEARS		24						24	24	24
NFIRMS			<b>5,19</b>					<b>519</b>	<b>5,19</b>	<b>5,19</b>
NINDS				36						

150

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NINDS				254					
NLCCS					164	<b>164</b>			
RSQ	0072	0076	0410	0172	0118	0450			

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JointSignificance(F-statistics)

**YA** 

NINDS

**168** 

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YEAR		<b>69*</b> **				<b>645</b> ***
FIRM			317**			
N				<b>30‡</b> **		296***
ICC					186***	1.71***
(M6A)						
Cantads	YES	YES	YES	YES	YES	YES
N	24,285	24,285	24,285	24,285	24,285	24,285
NYFARS		24				24
NFIRMS			4258			
NINDS				363		363
NLCCS					212	212
RSQ	0073	0079	0446	0114	0088	0132

<b>JartSigrif</b>	icance(F.statis	tics)				
YEAR		<b>108#</b> **				<b>1039</b> ***
FIRM			<b>265</b> ***			
INC				288***		277***
IX					223***	201***
(M6A)						
Cantads	YES	YES	YES	YES	YES	YES
N	24,285	24,285	24,285	24,285	24,285	24,285
NYEARS		24				21
NFIRMS			4253			
NINDS				3633		363

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NLOCS RSQ	0168	0198	0711	0297	162 0208	162 0319			

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Pior studies find that governme factors such as bond independence and CEO compensations are concluded with compose tax avoidance (Amsterget al., 2015) Gaetrer; 2014). This, we additionally control for governme factors and CEO compensation to examine whether the geographic effects may work through the governance mechanisms. Specifically, we include measures of bond size, procentage of independent directors, gender diversity on the bond, CEO and Cheir duality, and CFOs' bond membership and CEO total compensation. These data are

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INC				265***			192**
LCC (MSA)					195***		230***
ŒC						<b>249</b> **	240***
Cantads	YES	YES	YES	YES	YES	YES	YES
Ν	12,289	12,289	12,289	12,289	12,289	12,289	12,280
NYEARS		21					21
NFIRMS			1,676				
NINDS				306			306
NLOCS					172		172
NCEO						2,807	2,807
RSQ	0088	0096	0354	0145	0112	0475	0498

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Interest in the issue of tax compliance costs has goven significantly over the last two decades in large part de to the work of academics and government agencies concerned about their irrichme and perverse impacts<sup>1</sup> Tax compliance costs are defined as 'the costs barre by businesses and individuals for complying with taxaed lation excluding the costs of the taxes then gelves'.<sup>2</sup> Ehier line, a variety of a proaches have been used togagettesize and nature of the tax compliance bucken<sup>3</sup> Two prominent examples ndedinthe calier value added tax (VAT) project include the 'Standard Cost Model'<sup>4</sup> (which is widely used by and on behalf of the European Commission) and the World Bark's 'Doing Business (DB)'<sup>5</sup> series Additionally, jurisdictional revenue authorities may publish very limited data<sup>6</sup> While each of these methodologies have several useful features, they also have conceptual and practical limitations<sup>7</sup> which in part led to the commencenertofe-ploatoyworkatheOganisationforEconomicCooperationand Development (OECD) in 2012 13 to develop as upper or methodology. However, due to cometing pionities in particular the Base Ecological Politic Shifting (BEPS) project, the CECD cased and a start work on the attenuity englobed by <sup>8</sup> Subsequently, in **2015 taxaadmics at UNSWageed that further exploration on the development of a** diagnostic tool was wan and and initially focused on VAT with the intention to estend the dagnostic tool concept to other business taxes inducouse This cubin median the VAT compliance hudenpilot project,<sup>9</sup> and its subsequent coll-cut<sup>10</sup>

The pilot study inclued 13 counties and was launded by UNSWSydrey inearly 2017, to test the VAT diagnostic tool. The findings boardy aligned with expectations and participants wavegeneally of the view that the tool displayed mention assessing the likely relative VAT compliance burden and its main divers<sup>11</sup> The project was then

<sup>&</sup>lt;sup>1</sup> Hil Ligie; Chis Evas ad Birh Tian Nan, 'Tagled Up in Tape The Continuing Tax Compliance
buckendagnostic tool adapts the definition of OT in the OFOD's Revene Statistics database<sup>10</sup>Specifically, OT refeasion constant this levied on the profits of anertity, usually accoupany, not on the shareholders who ownit <sup>20</sup> Hovever; given the adaption of the OFOD definition, takes paid on the profits of partneships and the income of institutions, such as life insurance or persion funds, are also classified as OT if they are draged on the partneship or institution as an entity,<sup>21</sup> In these cases, the term 'corporation' in this rating sheet includes these kircles of entities

As a stating point, the firm evolution the diagnostic tool was established though the identification of four factors precived to be the main divers of aggregate OF compliance tools at the first widted juist a factor level. Each of the four factors was then "," sub categorised into indicators. Whilst much of the groundwork for the OF diagnostic tool was laid by the VAT compliance buck mpoject, the OF tool also incorporates specific indicators workshops in Sychey and Exeter:

The Sydney workshop hosted at the Sydney offices of KPMG on 34 April 2018 was attended by many of participants from the original VAT pilot study to review the VAT diagnostic tool and identify access for refinement. In addition, one of the objectives of the workshop was to explore, at a high level, on cone tagordsid V Hp E@

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A diagnostic tool for assessing the corporate incone tax compliance burden

# As outlined above, Step 1 required the identification of a four factor framework to

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# Number of special CIT regimes that complicate tax computation and compliance 1-4

pactical experience A consistent approach will also be adopted in any further relicut of the CIT study.

Α	1C	35	037	3754	1425
В	10	35	026	<b>26</b> 5	1008
С	7	35	0215	1.505	7095
D	3	ę	0144	0433	1.299

	8344-10783	1	<b>X</b> 7 <b>X</b>
	10781-13223	2	veryLow
Rangeoficial	13224-15662	3	<b>T</b>
veighted scales	15663-18102	4	LOW
00444-00700	18108-20541	5	
8344032738	20542-22980	6	IVECULII
	<b>22981 - 25420</b>	7	Links
	25421-27859	8	ngi
	27880-30299	9	VeryHigh



These two Tables also highlight that attempts to derive a definitive or precise quartification of the compliance bucken may be publicantic since reducing the compliance bucken to a single figure index masks unkelying heterogeneity in the scores Forexample, China's compliance bucken index of 4608 rounds up to e against comparative data to accretain the reliability of the compliance burden classifications Thebest available data for this exercise is the PviC Paying Taxes 2020 report which formed part of the World Bark's Doing Business study.<sup>28</sup> This report ranks the ease of paying taxes access 190 jurisdictions and includes data up to and including 2018<sup>29</sup> The Paying Taxes indicator consists of several components, the nost relevant of which for our validation purposes, is the 'total time to comply' which is expressed in hours<sup>30</sup> This is disaggegated into the time to comply for the the emajor tax types being OIF, labor tax and consumption tax.

A compaisance the findings of the pilot study and the 'time to comply' data is provided in Table 11. For compaisan purposes, the PwC data has been categorised into quintiles as follows: 023 hous = 'very low'; 24 37 hous = 'low'; 38 40 hous = 'nedium'; 50 79 hous = 'high'; and 80+ hous = 'very high'.



juisdictions (Australia, Egypt and New Zealand).<sup>31</sup> There are three 'outlier' juisdictions (Hong Kong South Africa and USA) with Hong Kong having vasily divergent results A possible reason for the latter is that the results for Hong Kong included seven' default indicators' compared to four for Gennary and Japan and one for Australia, Chimand New Zealand This may have und ly influenced the results for this juisdiction

#### A diagnostic tool for assessing the corporate incone tax compliance burden

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assisted with completion	2) Revenuebody: Naneardenail address
	3
	4
	5)

A. ComplianceBuckenfiromCareElements of CIT Relicy		
Conpliancebucknindicatos	Relevant nating	
Exectexconstation		

A1. Number of taxiates for different types of entities (e.g. baserate entities, small business entities, etc.): (Note)

- 1. Orerate
- 2 Tyonates
- 3 Maethentworates

Note: Sone countries may impose different taxaates for different types of income or highly specialised entities including mining comparies, life comparies, aediturions, I.

#### A dagrostic tool for assessing the corporate incone tax compliance burden

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Contignals who interfectors	Relevant	
	rating	
A5 The CIT regine has the following special CIT regimes which simplify tax	1	
conputationardcompliance		
1. Oreregine (eg snæll business orgra ptærægines)	3	
2 Tvotothængines	4	
3 Maethanthæiegines		
4 Nosimplifiedregimes exist		
A6 Percentage of taxpayers using the special OT regimes identified in Question A5	1	
whichsimplify tax computation and compliance	2	
	3	
	4	
3 25%49%	5	
4 Lesstran25%	J	
5 Nosuchiegine		
CI prices that complicate tax computation and compliance	1	
A7 Alignert between financial accounts and taxietums number of adjustments from	1	
firmia accurts greatly requied in CIT returns	2	
1. Noacjustment required	3	
2 Fevertran5adjustments	4	
3 5to20adjustments	-	
4 Maethen 20 adjustments		
A8 The CIT regime has the following special CIT regimes which <u>complicate</u> tax		
conputationant compliance		
1. Oreregine (eg CFC, transferpricing arti-hybridades)	1	
2 Tvotothæregines	2	
3 Maetranthæregines	3	
4 Nosimplifiechegines exist	4	
As recenzed tappy subgray of the special CI regimes identified in Question	1	
As with complete tax completion and compliance	2	
	3	
	4	
4 J/ournale		
All required legislative anerthenis of the CIT law ching 2019 liscal yea:		
	2	
	3	
3 bio luayear	4	
4 Moethen Wayeer		

#### A diagnostic tool for assessing the corporate incone tax compliance burden

Confliancebucknimicatos	Relevant nating	
(If you vish to dabaate on any ratings in this section, please do so here F	orinstance,	
please highlight any rules or features in your country's CIT regime that are not covered in the above		
inicatos bithaesignificatinpatoncomplianebuder)		

## C Revenebody capabilities in meeting tappayers' service and compliance needs

Contigon Burketers		
Complete Duce in tracts		
<b>OrlineServices</b>		
<b>C1.</b> Quility of revenue body's vebsite for <b>CIT</b> (eg competensiveness ar lease of	1	
navigation) is generally.	2	
1. Excellent	3	
2 Good	4	
3 Resonable	4	
4 Roor	5	
5 Nonexistent		
C2 Recentage of CIT provide an acte checity through even e body's a line payment	1	
facilities rather tranthed parts acilities (eg barks):	2	
1. 75% annue	3	
2 Between 50% 74%	4	
3 Betveen 25% 49%	4	
4 Lessthen25%	5	
5 Noorlinepayment faility		

C3 Recentage of taxpayers using revenue body's or line filling facilities to file CIT

ConflianceBucknIndicators	Relevant nating
(If youvishtodaboateonaryratings inthissection, pleased so here instance, please highlight ary rules or features in your country's CIT regime that are not of the above indicators, but have significant in part on compliance burder)	For oveledin

## D. Monetary costs/herefits associated with compliance

Constrance Dasha katara	Relevant
ComparteBuceninticatos	rating

D1. Tinegreally required for revenue body to process CIT refurcts after taxpayers

identified in Question AS which complicate tax computation and compliance

<b>B</b> 9	Recentage of verification actions that result in disputed CIT assessments	Weappeciaethettheenightmtbearystatistical sourcesforthe'%volume aspect of this indicator: Howeve; page-448 of ArnexA (TaxAchinistration 2019 OEO) which details OT verification and it activity for OT may provide some guidance Page 67 of ArnexA also details the antithit rate for OT. Nonetheless, this indicator may require judgment call ficm experienced in country tax/accounting
C2	Recentage of CIT payments made directly through revenue body's or line payment facilities rather than third party facilities (eg barks)	professionals See TaxAchinistration 2019 OEOD referenced below (page 289 of ArnexA) which details whether electronic payment ims] f ( Ê ce
	This descritinduce payments made through third parties but rather focuses on the	

revenue body's capabilities





# How tax gap can inform tax policy and achinistration a case study of Australia's individual incometax

**RichardHighlield and Neil Wanen** 

Animesing number of revence agencies are deploying 'tax gap' analysis to assess their overall performance Tax gap – the

Howtaxgepcaninformta
estinates that are both or edible and reliable and which can be used to inform the wider community on the health of the tax system<sup>3</sup> Overcycles of such escarch, the ATO is a ining to be able to assess the trend of its gap estimates over time and, in particular; to ascertain whether policy reforms and/or its compliance improvement strategies are, in net overall terms, having an impact. The tax gap fiancework displayed in Figure 1 highlights the key components of the overall gap estimation approach of the ATO for each tax.

Source ATO, 'How we measure tax gps', https://www.atogs.au/About ATOResearchand statistics/indetail/Tax-gp/Biroiples and apporters to measuring gps/?pgs=4#flax\_gp\_fianework (accessed 25. January 2023).

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The substantially higher net tax gap for the IISB segnent (i.e., 126%), compared with the tax gap of the INB segnent (i.e., 64%), is largely attributedetothefactthetmethof the incone of these taxpayers is not subject

# Grossing up the resulting values to the projected full population reveals how the income

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While the analysis in Table 6 outlines the vertical equity impact of tax generated income, it does not informus on how TG impacts on individuals with seeningly equivalent income. This is the issue of horizontal equity or how the tax burch differs between individuals with similar incomes. Table 6 only illustrates how tax generated income impacts the pre- and post-tax distribution of income between individuals similarly ranked. However, since horizontal equity is about ensuing the tax system exhibit equal tax treatment of equals, an important question about noncompliance is whether it is board based and common across all tax pages. If it was then we could What Figure 4 stabily demonstrates is the substantial remarking of tax files when taxable income not reported to the ATO in lockements is taken into considuation Hoizantal equity of the individual income tax is therefore severely companised by rencendiarce with the law Futhemene, this finding must ultimately bring into question the vertical equity observations in Table 6 where TL is used to rank individuals because it closes not advowledge the substantial venarking of the individual files when tax geprelated income is taken into considuation One appoach to addressing this limitation is to rark individuals by TI+TGI and not TI. These results are presented in the final columnof Table 6 and highlight how the inequality measure (G) is worsered for TI+TGI when individuals are carled by TI+TGI instead of TI. Combined with the finings in Figue 2 while lower income groups might be appred in noncompliance itisfammesigificat for the higher income groups in terms of their share of TI+TGL Wentheinpact of taxpaid(I) as against taxliable by law(T=T+TG) is taken from TI+TCI, it is shown that post taxing one inequality improves, which is to be expected giventhepogesive zets checkle (Table 5) and the generative brefit to higher income gaustionnoondime Relaighetasgapheefaentalyinpoesvetical equity, it also significantly improves horizontal equity.

Howee; inpactice tax gaps have no single source and occur in nany ways as shown in Table 3. Undestanding how those sources differentially inpact different income groups is an inportant consideration not only to undestanding the cause of any resulting inequality, but to appreciate the likely distributional impact of any strategy designed to reduce a particular source of tax gaps, such as work related dependes. Figure 5 outlines the contribution to total tax gap by over claimed work related ded utions, undereported business architectal income, and other forms of non-compliance

In continuitor with Figure 2 (red section), Figure 5 illustrates how significantly the composition of noncompliance varies accoss tax ble income goups. For those on lower incomes, work related ! eViar high/karies cenem .

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Without the availability of taxgap data, revene againes have only limited, and more than likely unspectrative, data on why and how individuals' do not pay all taxifable because it is obtained through compliance activities arising from isk based nodels of non-compliance from a 'known'<sup>8</sup> population which are subject to infrequent review. The benefit of tax gap analysis is its holistic approach, forcing the estimation of non compliance across both the 'known' (current tax payers) and the unknown (or people outside the tax system (ROIS)).

Explaining and understanding tax gapestimates therefore requires a boorder view and understanding of the attributes and behaviour of both tax payers and those outside the tax system Hare, tax gap studies can potentially benefit from strategies developed by

Deductions for WRE have been aproblematic feature of Australia's incone taxsystem for many decades With the relevant tax law expressed in very broad terms, most employee taxpayers have, very often with the assistance of tax agents, identified opportunities for making WRE deduction dains in their tax returns. The average deduction daims in 2016 17 was AUD 2/495 with just under 50% of dains less then

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# income producing assets against other categories of income has led to extensive use of

#### measures (Table 7) that, an efally established, are expected to increase tax revenues by a and AUD 1,400 million peryea:

201718	Extension of the Taxable Payments Reporting System (IPRS) to contractors in the courier & clearing industries	194
	One year extension of furting for ATO compliance activities	19
2018 19	Expansion of the TPRS to the following industries a) security provides and investigation services; b) readfieight transport; and c) computer system design and related services	

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		WRE claims contained in 2016 17 tax neturns (clawing on the ATO sample file		
		pplatice) to identify their likely impact on income taxaevenue, the assessment of loan		
		repayments wight the tax system, and any unusual patterns in the jincidently of WIRE	**	<b>\$ &amp;</b>
pa	<b>20</b> a	- <b>depetionslegtveindjilSka</b> úthen <b>SiljiLtæpsye</b> tsa # & <sup>3</sup> p	in	а

<20	67,000	70,440	200,311	65
2029	1,084000	<b>1,139,619</b>	1,372,464	17
3039	517,000	543,541	702,317	23
4049	225,000	236,551	355,576	33
5059	88,000	92,518	156322	41
6069	25000	26,283	61,885	58
<b>70</b> +	4000	4,205	23,697	82

Situces ATOSanpleTisleedulSISL telulation, autautuus' conputations autasumptions /1. These data accessinates based on prior year patients of taxieum loggment.

TheATOs published tax gap findings concerting people who should lodge neuros but fail to do so – who the ATO dosoribes as 'people outside the system' (POIS) – are extremely limited in detail and don't shed any light on the drassesistics of POIS, including those with STSL debts. Furthermore, the ATOs includeds 2% sample only includes tax payers who lodge neuros and necesive assessments within the 16 month period following the end of the nelewart financial year. The topic of POIS at large is discussed in section 532

Some individuals drosent to report their assessable incomes simply by not lodging a tax return. In its published tax gap research findings, the ATO uses m ! roM

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understood, increaseds	ubstantial	ly(ie	,+80%)	<b>in201</b>	2 <b>1</b> 3vi	henthet	æfie	ethe	hdd		
was increased from Al	LD 6000	<b>to</b> AL	D 18,2	<b>D Wi</b>	hthes	ubstantia	al irro	ensei	nthe		
taxfice theshold, ore	night re	asonal	ly have	exped	edan	ectred	<b>ate c</b> f	gov	thin		
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burden and as a resul	lt, withhd	ding	at sourc	e The	sigrifi	cart ris	eint	e lev	d of		
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besupising to nary observers, when viewed in a boock context the gapestimate can be easily explained

Over 2 million inividals tappy es report retrent a income in their returns each year and neither payments of rental income morinteest draged connot gags, the major expense item in respect of such income, are subject to any form of systematic third party reporting to the ATO as is the case for most of the significant categories of income Inthe absence of such reporting and given the very low rates of an it coverage of these tappy es, almost all this reported income and expenditure goes unverified each year: For the 2016 17 income year; the ATO Taxation Statistics (2019) indicate that over 22 million tappy es reported around AUD 44 b esc cat

## Does the definition of repayment income<sup>2</sup> require further adjustment?

SILS repayments are calculated having regard to an individual's level of 'repayment income' which is broader than taxable income because it inducks specific other anounts i) total net investment losses (which inclucks rental income losses); ii) total reportable employee finge benefits; iii) reportable supercontributions; and iv) exempt elamel of TaxResearch

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## of tax agents in Australia<sup>19</sup>

Howtaxgapcaninformtaxpolicyandachinistration
The Austalia's Futue Tax System Review Parel report advowledged that a major banier to reform was the traditional 'agency by agency' approach to developing and delivering government services, which still appears to be much implace. It envisaged the need for a new more bolistic (whole of system), approach that bought together policy design and implementation across agencies and portfolios to achieve the transformation envisaged

In seeking to by a path for future developments, the Australia's Future Tax System Review Parel report (2009) concluded that a focus on six emblers would position Australia to deliver an improved client experience when engaging with the tax and transfersystem Inbrief, these were

- 1. The development of a tax and transfer dient account for every citizen and the impressive of defaults and nucleus, including petilled tax returns
- 2 Policy danges to align definitions and processes and to simplify rules for determining taxilabilities and transferentitlements
- 3 Greater use of real-time third party reporting
- 4 Information standards to support interpretability.
- 5 Andenpivayardseoecyfianework
- 6 Institutional reform

Adoption of these recommendations would do much to reduce the income tax gap and a possible catalyst for such danges could be the development of a single diert account applied account and governments – fecheal, state, and local. The Australia's Future Tax System Review Panel report (2009) recommended such applicy at the fecheal level in 2009) again generated report (2009) recommended such applicy at the fecheal level in 2009) again generated report (2009) recommended such applicy at the fecheal level in 2009) again generated report (2009) recommended such applicy at the fecheal level in 2009) again generated report (2009) recommended such applicy at the fecheal level in 2009) again generated report (2009) recommended such applicy at the fecheal level in 2009) again generated report (2009) recommended such applications of accounts of accounts) with government, which could be viewed and managed online. This would provide convenient access to information about all their tax and transfer affairs and help them better and scorer understand the breadth of their obligations. The account would also provide access to all third party information reported to government that was relevant to the intax colligations and transfer entitlements.

Whilenewarthewarped thid patyrepoting measues have been introduced in event yeas (e.g., Taxble Paynents Armal Reporting (IPAR)<sup>22</sup> and Single Touch Payroll<sup>23</sup>), tax gap analysis has shown that there is a strong case for expansion of reporting in respect of other important compliance risk areas such as rental incomes and further categories of human and statements are such as rental incomes and further categories of humans and self-employment income The Australia's Future TaxSystem Review Parel report (2009) Pt 2 Vol. 2 p 711) emphasised that 'dosent or cell time' reporting as opposed to armal reporting of such information and the visibility of these flows through a passon is client account would emble the system to be man responsive to dampes in circumstances and more transport to individuels.

<sup>&</sup>lt;sup>22</sup> ATO, 'Taselle payments annel report (IPAR)', https://www.ato.gow.auhusiness/reports.and returns/taselle payments annel report/ (accessed/25.Janary 2023).

<sup>&</sup>lt;sup>23</sup> ATO, 'Single Touch Payoll', https://www.ato.gow.auBusiness/Single Touch Payoll/ (accessed 25 January 2023).

- Hischton, J(SeconfConnissionerofTazation) 2019 'Future of taxachinistration, paperdelivered to the RicevaterhouseCoopers Global Tax Symposium Paris, 14 November: Available at https://www.ato.gov.au/Media.centreSpeeches/Other/Future of taxachinistration/ (accessed 25.January 2023).
- HMRevene & Custons 2019 Measuring taxgaps 2019 edition Taxgapestinates for 2017 to 2018 Available at

htps://webachivenationalachives.gox.uk/ukgva/2020001/215139htps://www.gox.uk/gove mment/statistics/measuing\_tax.gaps (accessed 25. Jan.ary 2023).

- Huse of Representatives Starting Committee on Economics 2017, Report on the impiry into tax deductibility, Carbena, June, https://www.aphgow.au?adianentary\_Business/Committees/Huse/Economics/Taxteductibi lity/Report (accessed 25 January 2023).
- Huse of Repesentatives Stanling Committee on Tax and Revenue 2018, Taxpayer engagement with the taxsystem Carbena, August, https://www.aphgox.au?Palianentary\_Business/Committees/Huse/Forner\_Committees/Tax\_\_\_\_\_\_and\_Revenue/Taxpayeengagement/Report\_1 (accessed 25. January 2023).
- McMarus, J&Wanen, N2006, 'The case for measuring tax gap', eloured of Tax Research, vol. 4, no 1, pp 61-79
- Waren, N 2016, 'efiling and compliance risk Evidence from Australian personal income tax deductions', Australian TaxForum, vol. 31, no 3, pp 577602
- Waren N 2019 'Estineting tax gap is everything to an informed response to the digital eral, eloural of Tax Research vol. 16 no 3 pp 536 577.
- Waten N & McMants J 2007, 'The impact of tax gap on future tax reforms', Australian Economic Review vol. 40 no 2 pp 200207.

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## For the INB population, the ATO reported that '[i] in the full sample of 1,408 cases the incidence of adjustment was 75% with 80% of agent-prepared returns being adjusted

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For all tappyes, the data reveal only minor differences across the three regional groupings. Both the incidence rate and average claim value are boody similar across the three regional groupings, while the marginally lower tax gap impact of WRE claims imregional unbrances is most likely attributable to the lower average incomes (and associated marginal rates of tas) of tappyers in this regional grouping. For tax agent prepared returns, the incidence of WRE claims, their average claim value, and average WRE tax gap are marginally higher in major unbrane gions.





The aveage WRE daim value varies significantly (i.e, by a factor of 100%) accoss occupational groupings, with significantly higher averages observed mainly for taxpayers in 'white collar' groupings (i.e,

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Excluding tappages agalunder 25, both the incidence rate of reported business income and relative amount of average business income reported all increase consistently access aggroups up to 50 59 years. However, a weage incomes reported park in the 40 40 aggrouping and fall threafter, especially for uses of tax agents. For tax agent pepared returns, both the incidence rate of net business income and amount of average business income reported are significantly higher than self prepares across all aggroupings. The projected average tax agroups as shown in Figure 18 are substantially higher relatively to those of self-prepares across all age groupings.



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From 1 January 2019 students studying medicine, dentistry and veterinary science courses benefited firm a substantial increase in their local limit, firm an estimated AUD 130552 in 2019 to a new limit of AUD 150000) an increase of 15 percent. Students studying all other courses have a local limit of AUD 104,440 These amounts will continue to be indexed annually.

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A rewconbinedSISL loanlimit has been introduced, effective from 1 January 2020 evi Outymew Hill S HEDB bollowing counts HEAM champus on sSISL loanlimit, however existing FEE SISL entitlements already incured are being canied over (FEE HELP, With during an area in the second second

# The ATO sample file population of Study and Training Support Loans (SISL) is detailed in Table 20

No of records in sample file	40,2018	23698	277,202
No of taxpayer records with WRE dains-total	<b>26816(668</b> %)	149555(631%)	176/401
No of taxpayer records with WRE dains- aged 20-22	14,616(544%)	24,927(167%)	<b>39,54</b>
No of taxpayer records with WRE claims- aged 3(-3)	7,385(184%)	36796(246%	<b>44,181</b>
No of taxpayer records with WRE dains- aged 4C-4E	<b>2924(109</b> %		

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#### 6D PartnerStatus



#### **6E Geographical region**







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Table8Scuces

Cdum1-https://www.absgox.au/AUSSTATS/abs@.mf/DetailsPage/52040201819

Column2- https://www.atogox.au/inflvid.els/Taxietum/2019/Taxietum/Income questions 1-12;

Colum3- https://www.atogov.au/individ.els/income and deductions/income tests;

Column4- https://www.atogow.au/individ.als/Study-and taining support loans/Wienmust your equation of the support your equation of the support

Cdum5- https://www.atogpx.au/inivid.als/nedicate.ard\_pivate.helith.insuarce/nedicate.levy.suchage/

Colum6htps://wwwh.manervices.gow.au/int/vid.els/services/centelink/age.pensionhowm.chycu.canget/assets.test.and https://wwwh.manervices.gow.au/int/vid.els/topics/what-adjusted tavable income/29571

(accessed 25. Janary 2023)

# The inpact of demographic variables on value added tax compliance in South Africa

AnulienScheman

Research into the impact of demographic variables - including gender, age, formal education and tax knowledge - on tax

## Ore of the commic detenence factors identified as influencing tax compliance is tax

### Ingreal, the studies on individual taxpayer compliance argue that older taxpayers tend
## A betweensubjects online experiment following a pre-test and post-test design was conducted, involving four treatment groups that were conficuted with a VAT rate dangeficenthecument 15% rate

those with a five procentage point decrease in the VAT rate (10%): the large decrease group

those with a crepercentage point decrease in the VAT rate (14%): the small decrease group

the with a crepercentage point in rease in the VAT rate (16%): the small increase group and

the with a five pacentage point increase in the VAT rate (20%): the large increase group

The experiment commenced with questions to obtain the demographic publics of the

## the decide to participate or not and were asked to forward the message containing the link to people who they thought were qualifying participants (Sam best al., 2016).

Betwen Line 2018 and Janary 2019, 557 responses were received, withorly 131 valid and usble for the analyses. Responses were invalid where participants didnot agree to participate in the study (8); participants didnot meet the qualifying requirements (based on the income level of the business and being in a management, decision making position in the business) (211); the attention decks were answered inconectly (46); the experiment was not sufficiently completed for comparative purposes (160); and the participants' comments clearly indicated that they did not undestand the experiment and therefore did not answer appropriately (1). The participants were randomly allocated by Qualitics to the various treatment groups, asset out in Table 1.

Lagedcoccego.p(10%)	3
Snall decrease group (14%)	Э

The inpact of demographic variables on value added tax compliance in South Africa

Furthermore, it is evident that: females tend to be more compliant than males, individuals between 51 and 65 years of agreen to be the least compliant, but those over 65 tend to be the most compliant; individuals with the lowest qualifications tend to be the least compliant; and those with the best VAT knowledge tend to be the most compliant.

**Figue2(saks)** and **Figue3(puchases)** illustrate the compliance peritem within each demographic variable after the dampe in VAT rate as ite a **the** after the dampe in VAT rate as ite a **the atter** as ite a **the atter at** 



The inpact of demographic variables on value added tax compliance in South Africa



- Rupert, T.J. Single, L.E & Wiight, A.M.2008 'The impact of floors and phase outs on taypayers' decisions and undestanding of marginal tax rates', Journal of the American Tazation Association, vol. 25, no 1, pp 72:86
- Sanders, MNK, Lewis, P & Thorrhill, A 2016, Research methods for business students, 7thech, ReasonEducation, Hadowy UK
- Scolard, J 2012, 'Exploring the philosophical underpinnings of research Relating ontology and epistemology to the methodology and methods of the scientific, interpretive, and critical research paradigms', English Largrage Teaching vol. 5 no 9 pp 916
- Stedish WR, Cock, TD & Campbell, DT 2002, Experimental and quesi-experimental designs for generalized causal inference Wackworth Cengage Learning Belmort, CA.
- Shafe; WE & Warg Z 2018 'Madiavelliarism social roms, and taxpayer compliance', Business Effics, the Environment and Responsibility, vol. 27, no 1, pp 42:55
- Snall Enterprise Development Agency 2019 SMME quarterly update 3rd quarter 2018 Pretoria March Available at: http://www.sech.org.za/R.blications/R.blications/SMME%20Quarterly,%20018QBptf.
- Song Y-d& Yabough TE 1978 'Taxethics and tappyer attitudes A survey', Public Achiristration Review vol. 38 no 5 pp 442452
- South African Revence Service (SARS) 2012, Compliance programme 2012/13-2016/17, Petoria Available at: https://www.gov.za/sites/default/files/gois\_document/201409/sascompliancepogram 2012/ind2/30marchpdf.
- SouthAfricanRevenueService(SARS) 2015 Guideforventors, Pretoria
- SouthAfricanReveneService (SARS) 2017, Annual performance plan 2017/18, Pietoria Available at: https://www.sas.gov.za/vpccntert/uploads/Enterprise/Strat/SARS-Strat=19SARS-Annual-Performance Plan 2017 to 2018 15 June 2017 pdf.
- Statistics South Africa 2018, Quarterly labour force survey, quarter 3–2018, Pietonia Available at http://www.statssagpx.za/p.blications/PO211/PO2113dQuarter2018.pdf.
- Theon, C 2016, '#VATMLstRise An uppular solution to a very real problem, The Young Independents, 20 November: Available at https://www.tyi.coza/yourlife/news/vatm.strise anuppular solution to a very real-problem
- Tagle; B 2008 'Beyond purishment: A tax compliance experiment with taxpayers in Costa Rica', Revista de Análisis Económico vol. 18 no 1, pp 2256
- VanOod; ML 2016 Aquantitative masurement of policy options to informatue added taxaeform in South Africa, upublished Doctoral thesis, University of Pietoria, Pietoria Available at http://repository.upac.za/handle/2263/53009
- Wenel, M 2005, 'Motivation or rationelisation? Causal relations between ethics, mms and tax compliance, Journal of Economic Psychology, vol. 26 no 4 pp 491-508
- Wijayarti, P, Saasvati, NKartika, I & Mutcharch 2020, 'The improvement strategy of tax compliance

## Tax professionals' perceptions on Malaysian HNWIs' compliance behaviour

Natish Saad, Abdul Salam Mas'ud, Saliza Abdul Aziz, Nor Aziah Abdul Maref and Muhammad Achal Mashedi

Documented exidence has shown that a significant number of high net worth individuals (HNWs) whose contribution accounted formate than 11% of pasceral incontext collections have been carget in textual feasure over the period of 2009 2013 through IREM taxacits. Therefore, this atticle examines the influence of probability of detection, perceived severity of purishment, political affiliation, role of tax professionels, conditional cooperation, and vertical fairness on HNWs' non compliance behaviour. Survey questionnines wave achimistered among tax professionels, and data was analysed using PLS software. The results reveal that the probability of detection, severity of purishment, political affiliation and role of tax professionels have a significant influence on tax monompliance behaviour among HNWs.

: HNWIs rencompliance probability of detection severity of purishment; pulitical affiliation

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Since 2009 when the Ogarisation for Economic Cooperation and Development (CECD) first published august about the orgagement of High Net Worth Individuals (HNWIs) on tax compliance, this category of tax payees has been easimportant subject in tax research. While there is no universal definition of HNWIs, the nost community applicable definition is the tof OECD (2009) which defined HNWIs as individuals with a networth of at least USD 1 million held either directly or indirectly through turts and controlled entities. OECD (2009) claified that there are four considerations for the recent focus on HNWIs among revenue attroities. The first is the complex nature of mishet that 1 p. Wis MID plt o " et lion is

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Taxpofessionels' perceptions on Melaysian HNWIs' compliance behaviour

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Taxpofessionels' perceptions on Melaysian HNWIs' compliance behaviour

who have the ability to devise schemes for tax avoidance and evasion. Through a dit data, Rosli et al. (2018) found a significant relationship between the influence of tax professionals and noncompliance. However, whether or not tax professionals aided aggressive tax planning the connecult in tax noncompliance of HNMs in Malaysia is an issue the treeds further evidence. Therefore, the following hypothesis is developed

: There is a positive relationship between the role of taxprofessionals in aggressive

relation to HNWIs, Rosli et al. (2018) examined the influence of tax rate on tax milfeasance in Malaysia, and the result revealed an insignificant relationship. It was concluded that the majority of HNWIs will pay tax inespective of the rate imposed Hovever; Rosli et al. (2018) cattioned that when the rate is high, there could be a likelihoodfor HNWIstotal etherisk for aggressive tax planning by shifting their waith or income to lower tax jurisdictions. Infact, they concluded that the study of tax rate alone could not be the only factor influencing HNWIs' decisions to evade tax Consequently, inview of this gap, it is proposed that there exists to be an investigation on the proception regarding vertical fairness and whether HNWIs proceive that the rate is fair enough to encurage compliance. Consequently, the following hypothesis is developed

: Three is a regative relationship between vertical fairness and tax non compliance of HNVIs in Malaysia

This section describes the research model, research design, population and sample selection and datacellection method and data arelysis techniques

The research multimatics study is supported by Allingham and Samho's (1972) economic determent economy as well as suggestions made by Hasel dime and Belbington (1991) and James and Alley (2002) for integrating sociopsychological and fiscal psychological factors in developing at accompliance model. Specifically, the model is designed to explore the extent of the relationship between the probability of detection, perceived severity of purishment, political affiliation, role of tax professionels, combined cooperation, and vertical fairness as independent variables and tax non compliance of HNWIs as the dependent variable. The presentation of the model through boths chematic presentations is as depicted in Figure 1 and through multiple regression analysis as derived in Equation 1.

Taxpofessionals' perceptions on Malaysian HNWIs' compliance behaviour

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## 331 Noncompliance behaviour

Snall Fim	Œ	60%
Missing	1	1%
Fenale	4	43%
Melic	55	56%
Taxpofessionels' perceptions on Melaysian HNWIs' compliance behaviour

Taxpofessionels' perceptions on Melaysian HNWIs' compliance behaviour

Ibdige HNWs mitical affiliation synt					
comletelvinnet consingtases*.	100	1	5	238	099
		-	•	~~	

I blieve HNWIs vaak benne likely toppy taxif at hes within their inconegrap are paying	100	1	5	396 092
I believe HNWIs vould alsofeet obligated to contribute and pay their taxes if many citizens pay their taxes	100	1	5	391 086
Tomyundustandingsome HNWIs wishtofulfil the social normof puging their taxes by just behaving according to society's rules	100	2	5	357 73
Inviewof vertical reciprocity, theorem of 058 This means that tax professi comply impaying taxis incheotly muti the government. Hence, willing ress to tax payers perceiving that the public wo	all mean orais beli wated bas occriticu uid be be	ieportedis ieve that t edonthe te to ta melit	357 T	ion sto sto
TomyundestandingHNWIs would agree to a tax innerse if the extra nonzy is used to finance the provision of better public goods and services	100	1	5	364 1.11
Tom/undextariles/HNWsnaceiveIREMInsbaa asupative institution museurg abligations	n		5	085

Taxpofessionels' perceptions on Melaysian HNWIs' compliance behaviour



## 432 Structural model result

The previous section presented the measurement model for underreporting income which deady showed that the data met the validity and reliability oriteria which is a precondition for the structural model result as pointed by Henderet al. (2009) and Hair et al. (2011). These oriteria are (1) an assessment of path coefficient using 5000 bootstaps ample, (2) an assessment of  $\mathbb{R}^2$ ; (3) the effects size (1<sup>2</sup>) of all the independent variables to the dependent variable using 0002, 013 and 035 as small, medium, and large, respectively (Cohen, 1989; and (4) the predictive relevance of the model using Rather, it is more a result of self-interest or on an individual basis. This is logical considering that underreporting of income is an illegal act which should not be disclosed to others.

The next hypothesis, HEb data with the relation hip between vertical recipicative and non-compliance. In this instance, it is proposed that good recipical cooperation between the HNWIs and the government leads to less engagement in under reporting of incomes. However, the result as indicated in Table 13 (= -003, t = 0.35, p = 0.35) does not provide support to the postulation. Although the chection is consistent with the hypothesis, it is not significant. The potential explanation could be due to the fact that the respondents have different proceptions between their cooperation with the tast and power ment. They may have good proceptions with the government but not solve to IREM as indicated in the descriptive results. To recap, the mean value for cooperation with the IREM is 345, which is slightly lower than the mean values for cooperation with government which are 368 and 364.

Hypothesis 6 (H3) postulates that there is a negative relationship between vertical



The coult of the R<sup>2</sup> as indicated in Table 14 was determined using the recommendation of Hair et al. (2011). Hair et al. (2014) stated that the R<sup>2</sup> values huld be at least 0.10 for a good model. Specifically, R<sup>2</sup> of 0.26 and above is considered substantial, 0.13 is considered modelate and 002 is considered week (Cohen, 1999). Based on this evidence, we can deduce that the R<sup>2</sup> value of 207% of the cument model is considered modelate because the value is greater than 13% but less than 26% as recommended by Hair et al. (2014). This highlights that the exogenous latent construct can only explain 207% of the value in the cument model, indicating that there are other constructs which explain the remaining 793% of the value of TaxNor-Conpliance(Unde-



This atide investigates the influence of publicity of detection, severity of purishment, political affiliation, role of tax professionals, conditional cooperation and vertical fairness on tax runcompliance of HNMIs, from the pespective of tax professionals. Results indicate that tax professionals believe that publicity of detection, severity of purishment, political affiliation and level tax professionals believe that publicity of detection, severity of purishment, political affiliation and level tax professionals believe that publicity of detection, severity of purishment, political affiliation and level tax professionals believe that publicity of detection, severity of purishment, political affiliation and level tax professionals believe that an effect on the runcompliance behaviour of HNMIs in Malaysia, while conditional cooperation and vertical fairness had no significant influence on their behavious. The firstings suggest that publibility of detection may play an important role incubing runcompliance among HNMIs. Untubed by, tax professionals believe that the IRBM is capable of detecting undersporting of a large amount of income committed by HNMIs. This is because the IRBM is proceed to have adequate mechanisms to detecture reporting of small amounts of taxiliability and also has the expertise that could easily detect the overstatement of asnall deduction. Hence, anone aggressive tax and tshuld be conducted on this group of tax pages with the IRBMs capability and ability of detecting runcompliance.

Similarly, severity of purishment appears to have a significant relationship with = n Ma " his M

However, this response rate is a greerally acceptable rate in Malaysia for a survey. Notwithstanding its limitations, this research indirectly enhances and improves the body of knowledge on the roncompliance of HNWIs. However, there is still roomfor improvements and gaps to be covered infiture research. For instance, conducting a comparison study between contriles may provide interesting findings. Conducting interviews with HNWIs may also offer explanations as to their compliance behaviour decision making.

- Abother, FM, Ariffin, ZZ & Saad, N 2018, 'Effect of political factors on tax noncompliance behaviour among Libyan self-employed taxpayers', Academy of Accounting and Financial Studies Journel, vol. 22, no 4, pp 1-9
- Alkhatib, A.A., Abdul-Jabbar, H&Marimuthu, M2018, 'The effects of datemente factors on income tax evasion among Palestinian SMEs', International Journal of Academic Research in Accounting Finance and Management Sciences, vol. 8 no 4, pp. 144-152.

## Earthat, D & Friesen, L 2014, Certainty of purishnert versus severity of purishnert: Detenence and the coording out of intrinsic notivation, University of Kanas Department of Economics University of Queensland School of Economics working paper: Available at: https://composite sustainability.org/vpcontent/uploads/Certainty-of-Purishnert.pdf.

- The Star 2017, 'Number of ultrahighnet-worth Malaysians growing', 13 April. Available at https://www.thestar.commy/business/business-news/2017/04/13/n.mber.of-ultrahighnetworthmalaysians-growing/ (accessed/22November/2018).
- Togler, B 2009, 'Speaking to theorists and searching for facts Tax mode and tax compliance in experiments', Journal of Economic Surveys, vol. 16 no 5 pp 657683
- Togler, B, Schaffner, M& Macintyne, A 2007, 'Tax compliance, tax notale and governme quality', Center for Research in Economics, Management and the Ants Working Paper No. 2007 17, Basel.
- Van Vuuen, C.M.J.2016, Taxauthorities' detection and detening of taxevasion of high net worth individuals: Accomparative study, MCcondissentation, North West University, South Africa
- Willians, C.C. & Hoochic, I.A. 2016, 'Tackling the unded accoromy in the European Union American de aduation of the tax nucle approach, Industrial Relations Journel, vol. 47, no. 4, pp. 322, 340
- Yarkelovich, Skelly & White, Inc. 1984, Taxpayer Attitudes Survey, Final Report, Public Opinion Survey Prepared for the Public Affains Division, Internal Revenue Service, New York
- Yau, A, Saad, N & Mas'ud, A 2020, 'Effects of economic detenence valiables and royalty rates on petroleumpolit tax compliance in Nigeria Amempirical analysis', International Journal of EnergySector Management, vol. 14, no 6, pp. 1275–1296