Exploring the deep determinants of tax revenues

Maius van Oodt

Abstracp A

determinants of tax performance. Bonowing from the development economics literature, this article explores 'deep determinants' or long term variables of tax ratios. I consider how geography, formal institutions, and informal institutions influence tax ratios in a large cross section of countries. A theory based on 'institutional efficiency' is proposed the may partly

African TaxInstitute, University of Pietoria, Pietoria, South Africa, Ensil: manus vancod@upacza

elamel of TaxResearch

Exploring the deep determinents of taxaevenues

1. INTRODUCTION

determinents may also impact the taxicatio directly. Deep determinents show that history matters towards taxice verses and that taxice versus are path dependent.

The focus is on deep determinants since the argument, as borrowed from the

sectors found in countries with large agricultural sectors may also have limited the ability of the countries' governments to increase their taxuatios⁹

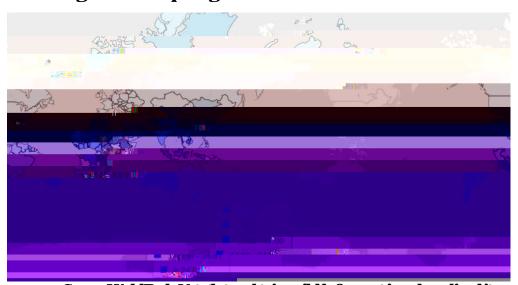


Fig 1: World Map of Agriculture to GDP

Souce WoldBark Notethat no datais available for courties coloured in white

I test the hypothesis that accurity's location has an influence on taxatios with the use of a coss section dataset of at most 141 countries for the year 2014, using alternative models (refer to Table 1). Appendix A provides the sample and a description for all variables used in this actide. The models contain performantly group a discribed as being 'as exogenous a determinent as a necromist can ever hope to get.¹⁰ The only more organized variables are metain risk in 1965 and population size. Metaianiskin 1965 serves as a provident as an exoronist can ever hope to get.¹⁰ The only more organized variables are metain risk in 1965 and population size. Metaianiskin 1965 serves as a possible of the discass environment faced by settles and seens likely to be exogenous to connect taxinations. From a testing for embgreity by using various group thic variables as instruments supports this conclusion. Since onert population size may be embgrous to taxinatios (and the coefficient is relevant for the remainder of the actide), I use population size in 1980 as an instrument for onert population size and two stage least squares as the estimator when including population size. It seens unlikely that population size in 1980 will

⁹ Roger Gordon and Wei Li, 'Tax Structures in Developing Countries: Many Ruzdes and a Rossible Explanation (2009) 98(78) Journal of Public Economics 855

¹⁰ Dari Rochik, Arvind Subanarian and Francesco Thebit, 'Institutions Rule: The Prinacy of Institutions over Geography and Integration in Foormic Development' (2004) 9(2) Journal of Foormic Growth 131, 133

influence taxies encoded as the theory of the transition of the t

Table 1: Country's Location and TaxRatios

	(1)	(2)	(3		
	(4)	(4)	()	(-)	(c)
VARIABLES	OLS				
VALVADLES					

Since the economic development literature finds a strong relationship between the past disease environment and economic development and economic development is shown

eland of TaxReseach

citizers' peferenes¹⁸ Easterly and Levineshow that ethnic diversity advessely affects many public policies associated with economic growth and conduct that their 'nexults lends upport to theories that interest group polarization leads to rest seeking behavior and head rest the consense for public good'.¹⁹ La Pota and co authors show that ethnic head rest the consense for public good'.¹⁹ La Pota and co authors show that ethnic head rest the consense for public good'.¹⁹ La Pota and co authors show that ethnic head rest the consense for public good'.¹⁹ La Pota and co authors show that ethnic head rest the consense for public good'.¹⁹ La Pota and co authors show that ethnic head rest the constant of t

3 INSTITUTIONS AND TAX RATIOS

31 Formel institutions and taxinatios

Dianords discussion, as summised in section 2, focuses on the diffusion of technology and how this led to Eurasian dominance. But the plentiful supply of food and consequent division of labour; population growth, and trade do not only benefit technological development. The interaction between different social groups and societies recessitates the establishment of new institutions. The institutions developed and established in Eurasia were replicated in societies where colorises settled and many continue to exist today.²² Today, nonsettler societies often also enforce formal institutions originating from Eurasian societies. Formal institutions are regarded as deep

Gil ardSalai-Matin).³¹ PessonardTabelliri⁵⁵ findthat pesidential systems decease tax revenues (palianentary systems increase tax revenues), although this result is questioned by the replication study of Blune and coathors, which uses a larger sample³⁸Theresults reported in this section are firm agree terrum ber of observations than these previous studies (141 compared to 88 by Blune and coathors and 76 by Pesson and Tabellin).

The najority of past studies on denocacy and government size measure the

elumi of TaxReseach

political power is note distributed. Rect-seeking behaviour could also influence tax modely decreasing tax compliance 40

Table 5 Influence of a Parliamentary System on Tax Ratios

	(1)	(2)	(3)	(4)	(5)	
VARIABLES	OLS	OLS	OLS	OLS	OLS	

elumi of TaxReseach

eland of TaxReseach

eland of TaxResearch

Table 7 Inglehart Webzel Values Measure

Factor loadings

Traditional values emphasise the following (Secular rational values emphasise the opposite): eland of TaxReseach

Self-expression societies are also on average mue rule abiding (r=072). This is different to traditional societies who are less rule abiding (r=053) although having informal institutions that emphasise rule chedience. It appears that institutions that support the involvement of society in the creation of rules that represent their interests drives rule chedience, rather than institutions emphasising rule chedience. Storger enforcement of formal institutions is not necessarily the answer (as much of the tax literature emphasises). Supporting the development of improved informal institutions and creating formal institutions that represent these informal institutions could be a more fruitful approach. sinilar to Mankwie, suggest that the economic environment of countries at the time of colorisation, emphasising the extent that mineral wealth has been discovered influences current levels of taxizatios.⁵⁸ Although mineral wealth most likely played a part in the policies implemented during colorisation, this article provides an alternative manaive that emphasizes group apply, rather than the economic environment.

It is shown that the past disease environment is a significant determinant of taxatios and that the effect does not run only through the influence of the past disease environment on economic development (as shown by Acomoglu, Johnson and Robinso).⁵⁷ It is suggested that this effect is as a result of the institutions and importantly, the technology and ideas of settles, which were implemented and applied where they settled Adopting foreign technology may be particularly important for developing countries if they are to increase the instantations.

Second fortaxiation the division of powers matter: The results in this article suggest that to vard in cessed taxiatios, demonatic institutions can be perferred to period to authoritation institutions and parliamentary institutions can be perferred to period to authoritation Societies with informal institutions aligned with demonatic principles also exhibit greater taxiations. These results suggest that agreeter division of power is beneficial to taxiations. This suggestion is, however, not supported by the finding that fechal institutions, which likely lead to tax competition, have an egative effect on taxiatios. Taking the findings on demonatic institutions, parliamentary institutions, and fechalism into consideration, it appears that the division of power can increase taxratios, but these effects may be demonatif such division results in tax competition.

Thid, for taxatios formal and informal institutions matter: Since institutions are slow draging advising drages to formal and informal institutions may not be particularly helpful for countries which require additional tax revenues in the short term. For the short term, knowledge of the effect of institutions on tax ratios may be none useful in how tax policy is designed and debated. Incorporating the results presented in this article, Figure 2 provides a theory on how greater cognisance of institutions can be useful in designing tax policy.⁵⁸

⁵⁶11bid

⁵⁷Acencely, Johnson and Robinson, aboven 7.

³⁸The theory does not attempt to include all factors that influence tax ratios. There are narry factors that influence tax design and tax ratios that are not considered in this acticle. Inequality is an example of such a factor; as discussed in Kerneth L. Scholoff and Eric M.Zolt, 'Inequality and Taxation. Evidence from the Americas on How Inequality May Influence Tax Institutions' (2006) 59(2) Tax Law Review 167.

elumi of TaxReseach

these institutions and enforcement characteristics. The theoretical principle that I propose here is institutional efficiency.

When proving a newformal institution (eg tax law), institution efficiency will be high if: (1) the proposed formal institution does not advessely influence the intended outcomes of other existing formal institutions; (2) the proposed formal institution is aligned with the existing informal institutions, and (3) the proposed formal institution does not advessely influence the existing informal institutions. The higher the institutional efficiency, the lower the transaction costs of the policy.

The transaction costs of the policy will include implementation costs, adjustment costs, and enforcement costs. Implementation costs include political costs (for instance, the loss of votes), costs to obtain consensus on the policy, the costs of citizen organisations

require an indepth undestanding of the informal institutions residing in countries, bringing sociology squaely into the field of fiscal policy.

APPENDIXA. SAMPLE, VARIABLES, SOURCES AND MEANING

The sample includes Afgharistan Albaria, Algeria, Angola, Antigua and Babuda, Ameria, Australia, Austria, Azerbeijan, Bahanas, Bahain, Bangladesh, Babados, Belarus, Belgium, Belize, Berin, Bhutan, Bosria, Botswara, Brazil, Bulgaria, Burkira Faso, Cabo Verde, Cambodia, Carada, Central African Republic, Chile, Chira, Colombia, Corgo, Rep., Costa Rica, Cote divoire, Croetia, Cyprus, Czech Republic, Dermark, Dominica, elamel of TaxResearch

		gives citizens the right to vote in an election, fieely and fairly.
Development	WorldBark	GDP percepitz

elamel of TaxResearch

Exploring the deep determinents of taxaevenues

Religion Aleximandothes⁶⁶ Fractionalisation Reflects the probability that two nardomly selected people firom a given country will not