

# Moral Deficit and Economic Development

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This study investigates the role of morality in economic development. Two representatives of morality used in this study are (1) the organizational ethics such as corruption, transparency and accountability, rule of law and government effectiveness, and (2) the “bad” such as sexual violence, theft and intentional homicide rate. The indicators of economic development include income per capita, growth rate of income per capita, gross savings rate and genuine savings rate. Panel data from 1990 to 2011 and pooled OLS and fixed effects model estimation techniques are employed in order to examine the relationship. Some empirical evidence substantiates the hypothesis that organizational ethics and the “bad” measures do play an important role in determining income per capita and income per capita growth. The organizational ethics appear to influence gross savings and genuine savings rate to some extent. However, no strong empirical findings have been found to link the “bad” to gross savings and genuine savings rates.

*JEL Classifications: O10; Z10.*

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## 1. Introduction

*“...We have created a society in which materialism overwhelms moral commitment, in which the rapid growth that we have achieved is not sustainable environmentally or socially, in which we do not act together to address our common needs. Market fundamentalism has eroded any sense of community and has led to rampant exploitation of unwary and unprotected individuals. There has been an erosion of trust—and not just in our financial institutions. It is not too late to close these fissures....”*

*Joseph E. Stiglitz  
Moral Bankruptcy, 2010*

In pursuit of prosperity, a country tries its best to achieve a rapid economic growth and a high level of income by virtue of capitalism. Along the process, self-interest maximizations of individuals and corporates generate negative externalities to the economy and malign impacts to the society. One has witnessed several economic turmoil, environmental degradation and social illness resulting from this material wealth-seeking endeavor.

Such behaviors of self-interest, greedy and predatory are derivatives of the lack of moral values of individuals in the society. Morality, simply put, is a goodness or rightness of action, which stems from religion, philosophy and belief. Moral values affects every choice one makes, which in turns becomes norms and forms institutions in the society. This implies that morality does influence an economic development. Tabellini (2007) confirms this assertion by proving empirically that a country with higher morality indicators has better economic performance than a country with lower value.

The Philosophy of Sufficiency Economy (PSE) embraces the vital role of morality so that it is a requisite to practice the PSE. With the moral values, one is capable of making the decision that is fruitful to oneself and to the society at the same time. Mongsawad (2010) points out that the morality condition can help shaping strong formal institution (i.e. an honest government) and works as an informal institution (e.g. trustworthiness, honesty, and altruism) that encourages economic and non-economic activities.

This study investigates the impact of morality on a sustainable economic development, which is measured by income per capita, growth of income per capita, gross saving rate and genuine saving rate. Apart from fundamental factors which influence economic development, there are additional variables which will offer better understanding of existing literature on economic development. For morality, two types of representative are used: (1) the organizational ethics and (2) the “bad”. The organizational ethics represents the morality at the organizational or institutional level, which includes corruption perception index (CPI), control of corruption, government transparency accountability and corruption, and government effectiveness, rule of law, regulatory quality, voice and accountability and last but not least, political stability. The “bads” represent baneful acts, which include robbery, theft, sexual violence and intentional homicide rates.

The remainder of this paper is organized as follows. Section 2 introduces data used whereas empirical models employed in this study will be in Section 3. Empirical results are then presented and discussed in Section four. Finally, Section 5 concludes.

### **3. Data and Methodology**

Data used in this study are gathered from four main sources, namely the World Bank (World Development Indicators - WDI), Transparency International, Worldwide

Governance indicators (WGI) and United Nation Office on Drugs and Crime (UNODC) database.

The Worldwide Governance Indicators (WGI) ranging from approximately -2.5 to 2.5, with higher values corresponding to better outcomes.

Control of Corruption (*cc*) captures perceptions of the extent to which public power is exercised for private gain as well as "capture" of the state by elites and private interests. Government Effectiveness (*goveff*) captures perceptions of the quality of public services, the quality of the civil service and the degree of its independence from political pressures, the quality of policy formulation and implementation, and the credibility of the government's commitment to such policies. Political stability (*stab*) captures perceptions of the likelihood that the government will be destabilized or overthrown by unconstitutional or violent means, including politically-motivated violence and terrorism. Regulatory quality (*regq*) captures perceptions of the ability of the government to formulate and implement sound policies and regulations that permit and promote private sector development.

Rule of Law (*rule*) captures perceptions of the extent to which agents have confidence in and abide by the rules of society, and in particular the quality of contract enforcement, property rights, the police, and the courts, as well as the likelihood of crime and violence. Voice and Accountability (*voice*) captures perceptions of the extent to which a country's citizens are able to participate in selecting their government, as well as freedom of expression, freedom of association, and a free media.

The data on economic variables are primarily taken from the World Bank database. GDP per capita (*gdp\_pc*), annual growth rate of GDP per capita (*gdp\_pd\_gr*), gross savings rate (*grossaving*), genuine savings rate (*gs*).

Representative indicators on human capital include literacy rate, primary and lower secondary completion rates; primary, secondary and tertiary enrolment rates.

Initial investment (*ini\_inv*) is measured by gross fixed capital formation (as a percentage of GDP) in 1990 whereas the initial GDP per *capita* (*ini\_gdp\_pc*) is real GDP per capita in 1990. Gross fixed capital formation growth (*grosfixcap\_gr*) is the average annual growth of gross fixed capital formation (formerly known as gross domestic fixed investment) based on constant local currency. *rdexp\_gdp* represents research and development expenditures as a percentage of GDP. The share of R&D might be associated with higher income per capita as R&D could contribute to the country's technology improvement which in turn will favorably affect the level and the growth rate of income per capita.

Corruption Perception Indices (*CPI*) during 1996-2011 are taken from Transparency International. CPI (ranging from 0-10) measures the perceived level of corruption in the public sector, with high values indicating low level of perceived corruption.<sup>1</sup>

The “bads” included in this study are intentional homicide rate (*int\_homi*), theft, robbery and sexual violence. Intentional homicide is defined as unlawful death purposefully inflicted on a person by another person. Sexual violence (*sex\_vio*) means rape and sexual assault; including sexual offences against children. Theft (*theft*) means depriving a person or organization of property without force with the intent to keep it. However, theft does not include burglary; housebreaking; robbery; and theft of a motor vehicle. Robbery (*robbery*) is defined as the theft of property from a person; overcoming resistance by force or threat of force. Robbery should include

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<sup>1</sup> Due to changes in methodology and scale, the CPI in 2012 onwards was incomparable to the indices prior to 2012. Hence, only those from 1996-2011 are included in the dataset.

muggings and also theft with violence; but should exclude pick pocketing and extortion.<sup>2</sup> These four indicators of bads are measured as rates per 100,000 population.

To determine the role of morality on income per capita and growth rate of income per capita, we follow the mainstream school of thoughts in terms of model specification with additional variables on institutional quality and the bads.

Gross savings are the difference between gross national income and public and private consumption, plus net current transfers. Genuine saving is considered as a weak sustainable development indicator. Genuine saving (GS) which is called “adjusted net savings” on the WDI database is calculated as follows:

GS = Net national savings + education expenditure – energy depletion - mineral depletion – net forest depletion – carbon dioxide and particulate emissions damage.

Essentially panel data are utilized in this paper, the estimation techniques employed are pooled OLS estimation and fixed effect panel estimation. The pooled OLS estimation ignores the panel structure of the data – which admittedly is not an ideal estimation technique but it might offer some basic insights of the association of variables of interest. The fixed effect is used to investigate the relationship between explanatory variables and the dependent variable within a country. Each country exhibits individual characteristic which may or may not have an effect on the RHS variables. Using fixed effect estimation enables us to eliminate the influence of time-invariant characteristics so the net effect of explanatory variables on the dependent variable can be evaluated.

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<sup>2</sup> The definitions on the “bad” in this study are consistent with those from the UNODC database.

#### **4. Empirical results**

In this section, empirical results will be presented in four subsection. Each subsection will focus on one aspect on economic development, namely income per capita, growth of income per capita, gross saving rate and finally genuine saving rate. Table 1 presents the empirical results of pooled OLS estimation of income per capita. Tables 1 and 2 present the results from pooled OLS and fixed effect estimation respectively.

In Table 1, both CPI and trans\_acc are statistically significant in some cases implying that corruption perception and perception on transparency, accountability and corruption of the public sector are associated with income per capita to some degree. When controlling income group, the dummy of high income countries is highly and statistically significant whereas enrolment rate becomes statistically insignificant. The governance indicators are statistically significant if they are included in the model individually. This finding suggests that institutional quality does have influence over the level of income per capita. What is interesting is that intentional homicide and robbery rate are negatively associated with income per capita. To be more specific, those countries with high intentional homicide and robbery rates tend to have lower income per capita and vice versa.

The results from fixed effect estimation provides similar findings. That is, some governance indicators as well as the “bad” indicators (three out of four) are highly and statistically significant suggesting strong association between organizational ethics and GDP per capita.

Tables 3 and 4 show the empirical results for growth of GDP per capita. Initial GDP per capita is of negative sign as the literature on absolute convergence predicted. That is those economies with higher initial income would grow at a slower

rate. Gross fixed capital formation (% of GDP) and initial saving rates appear to have a positive effect on the growth rate of income per capita. According to Table 3, both primary and lower secondary completion rates are positively and statistically significant. In terms of corruption perception and transparency and accountability of the public sector, the estimators are significant when both indicators are included in a model suggesting an association between moral at the governmental level and GDP per capita growth. Empirical findings from both pooled OLS and fixed effects model seem to suggest a certain degree of positive relationship between governance indicators and GDP per capita growth. However, the “bad” indicators do not appear to be statistically significant for both estimation techniques, implying that the bads may not play a role in determining the growth rate of GDP per capita.

Table 5 displays fixed effect estimation of gross savings rate. Ln GDP per capita and GDP growth last year appear to have positive effects on gross savings rate whereas dependency ratio and urbanization are negatively correlated with gross savings rate. When quality of formal institutions such as rule of law, regulatory quality are controlled for, resource export ratio and CPI become statistically significant. The “bad” measures, however, do not seem to have any strong relation with gross savings rate. Yet, when all variables are included, intentional homicide rate becomes statistically significant implying that countries with high intentional homicide rates tend to have lower gross savings rate.

Table 6 shows the relationship between genuine savings rate and a number of variables. The results are comparable to those from the estimation of gross savings rate. In terms of ln GDP per capita and lagged value of GDP growth rate, the findings are consistent with what the literature suggests. That is to say countries with higher GDP per capita and lagged GDP growth tend to have higher genuine savings rate.

Urbanization degree remains negatively and statistically significant regardless of model specification suggesting robust correlation with genuine savings rate. CPI and transparency and accountability of public sector do not play any role in determining genuine savings rate whereas some governance indicators are statistically significant, specifically government effectiveness, rule of law, and voice and accountability measures. The four “bad” measures are not statistically significant.

## **5. Concluding remarks**

In this study, we empirically explore the impact of morality on economic development. Four indicators are employed as representatives of economic development, namely income per capita, growth rate of income per capita, gross savings rate and lastly genuine savings rate. The measures of “morality” include theft, robbery, sexual violence and intentional homicide rates (per 100,000 population). Besides obvious variables believed to affect economic well-being, quality of formal institutions are controlled for e.g. regulatory quality, government effectiveness and political stability. The dataset used in this paper are mainly gathered from four sources, namely WDI, WGI, Transparency International and UNODC database. Panel data from 1990 to 2011 and two estimation techniques, specifically pooled OLS and fixed effects models are utilized in order to investigate the relationship between the aforementioned variables.

The empirical findings reveal strong association between two indicators of economic development (income per capita, growth rate of income per capita) and organizational ethics as well as the bad measures. Thus it can be said that organizational ethics such as government effectiveness, rule of law, regulatory quality and the “bad” measures (e.g. intentional homicide rate and sexual violence rate) do have some effect on income per capita and its growth. Furthermore, the organizational

ethics appear to influence gross savings and genuine savings rate to some extent. Yet, no strong empirical findings have been found to link the “bad” indicators to gross savings and genuine savings rates.

## References

- Aidt, T. (2009) "Corruption, Institutions, and Economic development," *Oxford Review of Economic Policy*, vol. 25, no. 2, pp. 271-291.
- Chen, B. (2012) "Moral and Ethical Foundations for Sustainability: A Multi-disciplinary Approach," *Journal of Global Citizenship & Equity Education*, vol.2, no.2, pp. 1-20.
- Dietz, S., Neumayer, E. and I. De Soysa (2007) "Corruption, the Resource Curse and Genuine Saving," *Environment and Development Economics*, no.12, pp. 33-53.
- Friedman, B. (2006) "The Moral Consequences of Economic Growth," *Society*, January/February 2006, pp. 15-22.
- Hamilton, K. and M. Clemens (1999) "Genuine Saving Rates in Developing Countries," *The World Bank Economic Review*, vol.13, no.2, pp.333-356.
- Leite, C. and J. Weidmann (1999) "Does Mother Nature Corrupt? Natural Resources, Corruption, and Economic Growth," International Monetary Fund Working Paper, WP/99/85, Washington D.C.
- Mongsawad, P. (2010) "The Philosophy of Sufficiency Economy: A Contribution to the Theory of Development," *Asia-Pacific Development Journal*, vol. 17, no. 1, pp. 123-143.
- Sato, M., Samreth, S. and K. Yamada (2008) "A Simple Numerical Study on Sustainable Development with Genuine Saving," **Discussion Paper No. 728**, The Institute of Social and Economic Research, Osaka University, Japan.
- Stiglitz, J. (2010) "Moral Bankruptcy," available via the internet:  
<http://www.motherjones.com/politics2010/01/joseph-stiglitz-wall-street-morals>.

Tabellini, G. (2007) “Culture and Institutions: Economic Development in the Regions of Europe,” **CESifo Working Paper No. 1492.**

Table 1 Pooled OLS Estimation of Income per capita (gdp\_pc)

VARIABLES	(1) gdp_pc	(2) gdp_pc	(3) gdp_pc	(4) gdp_pc	(5) gdp_pc
ini_gdp_pc	1.040*** (0.116)	1.322*** (0.020)	1.156*** (0.023)	1.427*** (0.026)	1.261*** (0.032)
ini_inv	39.06 (33.840)	-26.49 (24.080)	-17.19 (22.100)	-80.08*** (29.960)	-63.62** (28.510)
grossfixcap_gr	42.37** (20.830)	3.159 (10.090)	13.76 (9.312)	-5.317 (13.040)	7.18 (12.640)
rdexp_gdp	384.9 (551.300)	1,510*** (214.400)	684.7*** (207.200)	1,162*** (298.000)	349.9 (298.300)
literacy	-2.188 (19.130)				
middle	1,226 (869.600)		1,202** (531.900)		178.7 (657.300)
high	10,489*** (1714.000)		7,520*** (734.500)		6,435*** (997.900)
pricomplet		-2.25 (12.080)	-26.98** (13.540)		
lowseccomplet				15.59*** (6.008)	7.694 (6.390)
Constant	-1,070 (1374.000)	561.2 (1052.000)	1,710* (998.000)	91 (712.300)	358.6 (738.900)
Observations	163	820	820	659	659
R-squared	0.878	0.928	0.94	0.9	0.911

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 1 Pooled OLS Estimation of Income per capita (cont)

VARIABLES	(6) gdp_pc	(7) gdp_pc	(8) gdp_pc	(9) gdp_pc	(10) gdp_pc	(11) gdp_pc
ini_gdp_pc	1.400*** (0.020)	1.223*** (0.025)	1.444*** (0.023)	1.290*** (0.026)	1.403*** (0.020)	1.243*** (0.024)
ini_inv	-68.66*** (22.980)	-68.60*** (22.010)	-70.91*** (25.400)	-52.24** (24.110)	-85.82*** (22.720)	-60.43*** (21.530)
grosfixcap_gr	-9.279 (10.600)	2.881 (10.120)	-10.67 (11.430)	0.736 (10.940)	-10.93 (10.420)	-1.624 (9.896)
rdexp_gdp	968.0*** (223.600)	247.5 (220.800)	361.4 (229.800)	-223.9 (224.500)	227.3 (228.200)	-191.6 (218.700)
middle		658.5 (462.300)		885 (558.700)		44.23 (491.200)
high		6,641*** (686.800)		6,841*** (796.700)		5,816*** (722.900)
prienrogross	-20.52 (16.660)	-21.95 (15.840)				
secenrogross			12.26 (9.279)	-13.46 (9.895)		
tertenrogross					40.60*** (7.873)	19.67** (8.173)
Constant	3,455* (1864.000)	3,125* (1766.000)	683.9 (802.400)	1,484* (779.700)	768.6 (552.100)	786.9 (596.300)
Observations	1,084	1,084	1,002	1,002	988	988
R-squared	0.912	0.922	0.916	0.925	0.924	0.933

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 1 Pooled OLS Estimation of Income per capita (cont)

VARIABLES	(12) gdp_pc	(13) gdp_pc	(14) gdp_pc	(15) gdp_pc	(16) gdp_pc	(17) gdp_pc
ini_gdp_pc	1.275*** (0.028)	1.212*** (0.028)	1.321*** (0.152)	0.792*** (0.174)	1.359*** (0.156)	0.808*** (0.172)
ini_inv	-69.26*** (23.740)	-53.21** (23.040)	24.48*** (6.910)	17.54*** (6.290)	25.72*** (7.129)	19.14*** (6.297)
grosfixcap_gr	-11.35 (11.250)	-2.381 (10.980)	-0.66 (2.318)	-0.11 (2.056)	-0.596 (2.364)	-0.0484 (2.047)
rdexp_gdp	-198.6 (232.700)	-520.9** (229.100)	-80.98 (281.100)	-577.0** (269.600)	-61.6 (285.600)	-587.6** (267.400)
middle		-61.6 (555.400)		743.7*** (155.200)		796.8*** (155.400)
high		4,394*** (831.200)				
tertenrogross	13.78* (8.029)	2.55 (8.348)	-17.01*** (6.282)	-15.19*** (5.578)	-19.90*** (6.653)	-19.21*** (5.755)
cpi	1,048*** (133.000)	703.0*** (138.500)			-214.7 (159.500)	-322.0** (139.500)
trans_acc_cor			344.2*** (111.100)	191.9* (103.400)	462.2*** (162.700)	376.1*** (141.700)
Constant	-1,775** (709.900)	-685.8 (746.700)	-1,176*** (306.000)	-427.8 (312.800)	-922.3*** (345.300)	-55.68 (343.100)
Observations	849	849	87	87	83	83
R-squared	0.937	0.941	0.62	0.706	0.621	0.72

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 1 Pooled OLS Estimation of Income per capita (cont)

VARIABLES	(18) gdp_pc	(19) gdp_pc	(20) gdp_pc	(21) gdp_pc	(22) gdp_pc	(23) gdp_pc
ini_gdp_pc	1.279*** (0.029)	1.270*** (0.027)	1.278*** (0.027)	1.386*** (0.026)	1.321*** (0.025)	1.385*** (0.026)
ini_inv	-46.32* (24.320)	-64.49*** (23.510)	-70.67*** (23.760)	-86.62*** (24.850)	-68.69*** (23.930)	-52.93** (25.270)
grosfixcap_gr	-13.01 (10.910)	-4.73 (10.700)	-8.644 (10.820)	-17.45 (11.250)	-7.691 (10.910)	-12.32 (11.240)
rdexp_gdp	-245.5 (248.400)	-346.1 (242.700)	-371.6 (247.100)	329.6 (255.100)	52.02 (243.100)	128.3 (250.700)
tertenrogross	21.70*** (8.378)	18.44** (8.193)	18.11** (8.318)	21.51** (8.864)	19.14** (8.373)	22.17** (8.812)
control	2,457*** (302.000)					
rule		3,005*** (288.200)				
goveff			2,953*** (311.600)			
stab				1,110*** (252.400)		
regq					2,381*** (270.300)	
voice						1,147*** (259.800)
Constant	1,902*** (593.500)	2,383*** (584.800)	2,155*** (589.700)	1,900*** (634.200)	1,448** (583.300)	1,080* (599.300)
Observations	825	825	823	822	823	825
R-squared	0.929	0.932	0.93	0.925	0.93	0.925

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 1 Pooled OLS Estimation of Income per capita (cont)

VARIABLES	(24) gdp_pc	(25) gdp_pc	(26) gdp_pc	(27) gdp_pc	(28) gdp_pc	(29) gdp_pc
ini_gdp_pc	1.282*** -0.03	1.218*** -0.03	1.327*** -0.03	1.279*** -0.03	1.396*** -0.19	0.793*** -0.21
ini_inv2	-101.0*** -25.37	-80.98*** -24.95	-122.8*** -26.51	-106.3*** -26.10	20.45*** -7.56	13.43* -6.85
grosfixcap_gr	-3.40 -10.66	-0.22 -10.45	-0.53 -11.52	5.12 -11.35	0.20 -2.21	0.34 -1.95
rdexp_gdp	-540.4** -263.80	-702.5*** -258.70	-392.40 -269.30	-613.9** -267.10	-933.0** -411.80	-856.8** -364.40
middle		-772.30 -588.80		-63.36 -610.40		763.4*** -163.90
high		3,052*** -914.40		3,526*** -937.70		
tertenrogross	28.43*** -8.50	21.44** -9.00	16.92** -8.59	8.55 -9.08	-19.86*** -7.37	-20.42*** -6.51
cpi			632.3* -326.30	481.60 -321.40		
trans_acc_cor					162.80 -195.40	139.10 -172.80
control	-342.80 -541.20	-97.88 -533.10	-1,715** -831.20	-1238.00 -823.90	-484.80 -320.40	-437.20 -283.40
rule	3,964*** -751.50	2,764*** -755.80	4,495*** -757.00	3,593*** -760.40	49.63 -358.30	-406.30 -331.50
goveff	101.40 -736.70	211.80 -743.60	-1,473* -762.40	-1,492* -768.30	612.7** -285.40	754.3*** -254.10
stab	-228.10 -293.50	-148.70 -287.90	192.80 -291.50	247.50 -286.70	-174.90 -110.00	34.05 -107.10
regq	1,319** -564.50	1,152** -552.20	2,169*** -584.90	2,053*** -573.80	317.90 -276.90	218.60 -245.70
voice	-2,081*** -404.80	-1,796*** -397.60	-2,579*** -432.50	-2,515*** -423.60	240.10 -227.90	98.97 -203.70
Constant	2,647*** -613.50	2,713*** -714.90	711.90 -1383.00	1002.00 -1388.00	-95.80 -706.60	75.29 -625.70
Observations	822.00	822.00	727.00	727.00	87.00	87.00
R-squared	0.93	0.94	0.94	0.95	0.70	0.77

Notes: Standard errors in parentheses. \*\*\* p&lt;0.01, \*\* p&lt;0.05, \* p&lt;0.1

Table 1 Pooled OLS Estimation of Income per capita (cont)

VARIABLES	(30) gdp_pc	(31) gdp_pc	(32) gdp_pc	(33) gdp_pc	(34) gdp_pc
ini_gdp_pc	1.125*** (0.09)	1.427*** (0.07)	1.354*** (0.03)	1.271*** (0.04)	1.332*** (0.04)
ini_inv2	-611.3*** (125.10)	-550.2*** (127.60)	(41.73) (31.09)	(33.02) (30.91)	(16.92) (34.09)
grossfixcap_gr	(35.04) (44.57)	(34.85) (41.88)	13.38 (16.00)	4.89 (15.39)	1.62 (16.77)
rdexp_gdp	-2,304*** (508.10)	-1,944*** (522.90)	44.73 (323.90)	-649.6** (322.30)	-711.2** (356.60)
middle	8,820*** (2735.00)	8,310*** (2827.00)	793.00 (916.70)	213.70 (960.50)	(34.21) (1016.00)
high	14,684*** (3202.00)	16,227*** (3301.00)	6,210*** (1133.00)	4,446*** (1240.00)	2,945** (1387.00)
tertenrogross	-122.1*** (26.03)	-91.06*** (26.16)	(6.06) (13.59)	(19.45) (12.90)	-34.86** (14.51)
cpi	2,164*** (474.90)			1,037*** (197.40)	1,278*** (242.30)
int_homi	-172.5*** (49.86)	-131.8** (51.24)			
theft			(0.24) (0.25)		
rob				-1.287* (0.70)	
sex_vio					(1.21) (11.16)
Constant	4667.00 (2831.00)	8,615*** (2828.00)	610.00 (1070.00)	(1304.00) (1189.00)	(1764.00) (1269.00)
Observations	196	206	473	432	354
R-squared	0.906	0.895	0.936	0.944	0.940

Notes: Standard errors in parentheses. \*\*\* p&lt;0.01, \*\* p&lt;0.05, \* p&lt;0.1

Table 1 Pooled OLS Estimation of Income per capita (cont)

VARIABLES	(35) gdp_pc	(36) gdp_pc	(37) gdp_pc
ini_gdp_pc	1.573*** (0.03)	1.436*** (0.04)	1.430*** (0.14)
ini_inv2	(36.11) (34.76)	(7.88) (33.32)	-929.2*** (196.30)
grossfixcap_gr	(20.79) (16.72)	3.31 (16.29)	(53.11) (50.21)
rdexp_gdp	(6.02) (361.00)	(553.60) (354.70)	-2,725*** (715.90)
middle		1011.00 (974.00)	14,951*** (4119.00)
high		6,088*** (1237.00)	13,758*** (4482.00)
tertenrogross	(10.02) (14.27)	-33.30** (14.64)	-98.00*** (33.96)
cpi			2,970*** (687.20)
int_homi			-252.9*** (58.02)
theft			-1.619*** (0.54)
rob			-4.148*** (1.20)
sex_vio	13.03 (10.45)	23.30** (10.05)	6.58 (22.16)
Constant	1,591* (927.40)	528.90 (1117.00)	4800.00 (4028.00)
Observations	382.00	382.00	115.00
R-squared	0.93	0.94	0.92

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 2 Fixed effects Estimation of GDP per capita growth (gdp\_pc\_gr)

VARIABLES	(1) gdp_pc	(2) gdp_pc	(3) gdp_pc	(4) gdp_pc	(5) gdp_pc
grosfixcap_gdp	19.37 (66.99)	80.46*** (14.93)	91.17*** (14.48)	49.41*** (17.03)	57.42*** (16.64)
rdexp_gdp	1602.00 (1629.00)	4,086*** (318.50)	3,433*** (316.00)	3,000*** (384.80)	2,311*** (386.30)
literacy	173.7* (98.22)				
middle	226.70 (1642.00)		242.20 (361.70)		193.10 (398.80)
high	2327.00 (2740.00)		2,797*** (475.20)		2,903*** (566.20)
pricomplet		5.30 (11.51)	4.25 (11.16)		
lowseccomplet				4.63 (3.80)	6.441* (3.75)
Constant	(9549.00) (8391.00)	7,344*** (1092.00)	6,726*** (1058.00)	8,439*** (594.10)	7,645*** (620.30)
Observations	178.00	866.00	866.00	702.00	702.00
R-squared	0.08	0.20	0.27	0.10	0.17
Number of country	76.00	112.00	112.00	104.00	104.00

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 2 Fixed effects Estimation of GDP per capita growth (cont)

VARIABLES	(6) gdp_pc	(7) gdp_pc	(8) gdp_pc	(9) gdp_pc	(10) gdp_pc	(11) gdp_pc
grosfixcap_gdp	81.73*** (15.06)	91.08*** (15.17)	96.43*** (18.49)	100.5*** (18.69)	53.25*** (16.24)	64.22*** (16.60)
rdexp_gdp	4,181*** (288.50)	3,774*** (288.30)	4,249*** (327.70)	3,867*** (329.50)	2,349*** (316.10)	2,289*** (315.80)
middle		57.72 (331.40)		279.30 (407.10)		-777.1** (385.50)
high		2,540*** (482.60)		2,576*** (575.10)		174.00 (541.80)
prienrogross	-26.35** (12.42)	-28.68** (12.16)				
secenrogross			-28.94*** (9.93)	-33.01*** (9.92)		
tertenrogross					86.63*** (6.06)	84.06*** (6.27)
Constant	11,730*** (1277.00)	11,133*** (1258.00)	11,981*** (956.90)	11,436*** (952.50)	7,626*** (484.10)	7,854*** (539.30)
Observations	1140.00	1140.00	1058.00	1058.00	1042.00	1042.00
R-squared	0.18	0.22	0.16	0.19	0.32	0.33
Number of country	119.00	119.00	114.00	114.00	112.00	112.00

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 2 Fixed effects Estimation of GDP per capita growth (cont)

VARIABLES	(12) gdp_pc	(13) gdp_pc	(14) gdp_pc	(15) gdp_pc	(16) gdp_pc	(17) gdp_pc
grosfixcap_gdp	59.71*** (17.24)	74.99*** (17.67)	(3.96) (3.62)	(3.91) (3.65)	(4.13) (3.75)	(4.10) (3.79)
rdexp_gdp	2,186*** (309.60)	2,192*** (308.10)	61.74 (236.60)	61.57 (238.40)	54.85 (247.90)	54.86 (250.00)
middle		-1,171*** (406.70)		11.89 (66.72)		6.88 (69.21)
high		(491.10) (548.70)				
tertenrogross	107.4*** (6.65)	105.8*** (6.88)	28.74*** (6.04)	28.27*** (6.63)	29.79*** (6.44)	29.50*** (7.11)
cpi	(3.78) (130.20)	(35.15) (131.60)			44.49 (81.01)	43.57 (82.20)
trans_acc_cor			111.20 (68.95)	109.10 (70.52)	102.30 (72.71)	101.20 (74.09)
Constant	7,145*** (761.40)	7,804*** (786.50)	106.10 (219.80)	116.30 (228.60)	2.83 (306.80)	11.09 (320.30)
Observations	890.00	890.00	93.00	93.00	89.00	89.00
R-squared	0.41	0.41	0.31	0.31	0.32	0.32
Number of country	104.00	104.00	25.00	25.00	24.00	24.00

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 2 Fixed effects Estimation of GDP per capita growth (cont)

VARIABLES	(18) gdp_pc	(19) gdp_pc	(20) gdp_pc	(21) gdp_pc	(22) gdp_pc	(23) gdp_pc
grosfixcap_gdp	63.07*** (17.76)	63.08*** (17.62)	63.35*** (17.73)	70.27*** (17.73)	47.93*** (17.74)	64.90*** (17.61)
rdexp_gdp	2,329*** (342.30)	2,338*** (341.10)	2,351*** (342.90)	2,230*** (342.10)	2,254*** (337.50)	2,435*** (343.10)
tertenrogross	76.52*** (6.94)	75.13*** (7.06)	76.58*** (6.97)	77.78*** (6.91)	76.04*** (6.84)	76.92*** (6.92)
control	(175.50) (378.30)					
rule		533.90 (478.80)				
goveff			43.78 (413.60)			
stab				-917.6*** (270.90)		
regq					1,957*** (405.80)	
voice						1,005** (466.30)
Constant	8,074*** (558.20)	7,859*** (561.70)	7,975*** (565.10)	8,099*** (547.40)	7,445*** (551.50)	7,479*** (596.90)
Observations	871	871	869	868	869	871
R-squared	0.28	0.28	0.28	0.29	0.30	0.28
Number of country	112	112	112	112	112	112

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 2 Fixed effects Estimation of GDP per capita growth (cont)

VARIABLES	(24) gdp_pc	(25) gdp_pc	(26) gdp_pc	(27) gdp_pc	(28) gdp_pc	(29) gdp_pc	(30) gdp_pc
grosfixcap_gdp	77.80*** (18.07)	64.26*** (17.96)	75.82*** (18.32)	76.08*** (17.87)	91.51*** (18.34)	(5.54) (3.55)	(5.29) (3.57)
rdexp_gdp	2,401*** (343.00)	2,156*** (340.00)	2,143*** (339.30)	2,228*** (326.10)	2,287*** (324.70)	80.84 (222.30)	98.96 (224.10)
middle	-856.8** (435.10)		-898.4** (437.40)		-1,124*** (431.20)		59.07 (72.95)
high	211.40 (587.00)		(14.27) (586.40)		(399.00) (570.70)		
tertenrogross	73.13*** (7.14)	77.23*** (6.91)	74.95*** (7.08)	87.92*** (7.48)	85.70*** (7.65)	21.70*** (5.94)	19.87*** (6.37)
cpi				(35.01) (150.00)	(62.07) (152.00)		
trans_acc_cor						88.36 (68.32)	75.32 (70.39)
control		-769.7* (429.30)	-740.9* (430.50)	(435.80) (462.10)	(388.60) (465.50)	-335.4** (162.20)	-311.0* (165.50)
rule		483.90 (586.80)	290.70 (587.00)	1,973*** (559.70)	1,778*** (559.20)	63.22 (189.80)	100.10 (195.80)
goveff		(605.70) (479.60)	(640.60) (478.10)	-1,231*** (462.90)	-1,251*** (460.80)	(122.60) (144.40)	(88.07) (151.00)
stab		-1,369*** (289.20)	-1,364*** (287.70)	-1,124*** (269.90)	-1,142*** (268.10)	134.6** (62.29)	151.2** (65.77)
regq		2,568*** (454.70)	2,515*** (454.20)	1,516*** (446.40)	1,452*** (444.50)	360.8*** (135.40)	356.0** (135.90)
voice	1,011** (464.00)	1,478*** (493.60)	1,549*** (492.00)	695.80 (490.60)	858.2* (490.50)	(172.60) (125.20)	(200.50) (130.20)
Constant	7,713*** (640.20)	6,960*** (596.20)	7,331*** (648.20)	6,801*** (798.90)	7,387*** (816.90)	238.80 (264.60)	337.00 (291.80)
Observations	871	868	868	765	765	93	93
R-squared	0.29	0.33	0.34	0.41	0.42	0.50	0.51
Number of country	112	112	112	104	104	25	25

Notes: Standard errors in parentheses. \*\*\* p&lt;0.01, \*\* p&lt;0.05, \* p&lt;0.1

Table 2 Fixed effects Estimation of GDP per capita (cont)

VARIABLES	(31) gdp_pc	(32) gdp_pc	(33) gdp_pc	(34) gdp_pc	(35) gdp_pc
grosfixcap_gdp	216.4*** (47.48)	218.7*** (44.19)	127.8*** (14.84)	126.9*** (16.45)	112.1*** (16.57)
rdexp_gdp	143.90 (745.80)	(35.70) (708.10)	613.6* (313.60)	657.2* (361.30)	528.00 (386.20)
middle	437.00 (1494.00)	416.70 (1466.00)	-1,043*** (389.90)	(630.70) (496.60)	(622.60) (461.10)
high	1206.00 (1788.00)	1272.00 (1715.00)	32.07 (480.00)	257.50 (584.70)	239.00 (553.40)
tertenrogross	111.3*** (17.87)	109.2*** (16.92)	62.45*** (9.58)	71.77*** (10.36)	51.76*** (10.92)
cpi	(3.63) (369.90)			159.10 (150.20)	233.10 (168.20)
int_homi	14.09 (78.73)	18.44 (72.85)			
theft			-0.501*** (0.14)		
rob				-3.035* (1.59)	
sex_vio					12.93** (6.38)
Constant	13,447*** (2968.00)	13,844*** (2361.00)	12,185*** (687.30)	10,306*** (1093.00)	10,339*** (1173.00)
Observations	201	211	496	454	374
R-squared	0.31	0.31	0.31	0.30	0.23
Number of country	30	31	80	77	65

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 2 Fixed effects Estimation of GDP per capita (cont)

VARIABLES	(36)	(37)	(38)
	gdp_pc	gdp_pc	gdp_pc
grosfixcap_gdp	102.6*** (15.26)	115.7*** (15.48)	329.9*** (40.77)
rdexp_gdp	573.0* (339.70)	489.80 (335.70)	1,184* (705.30)
middle		-703.6* (404.20)	(1027.00) (767.70)
high		307.30 (491.30)	
tertenrogross	50.81*** (10.03)	46.00*** (10.07)	60.59*** (21.47)
cpi			114.70 (400.90)
int_homi			(21.81) (54.58)
theft			-0.847*** (0.21)
rob			(3.34) (2.69)
sex_vio	14.55** (6.07)	15.11** (5.94)	35.82*** (9.48)
Constant	11,662*** (713.20)	11,855*** (722.70)	13,392*** (3553.00)
Observations	403	403	119
R-squared	0.20	0.24	0.54
Number of country	67	67	24

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 3 Pooled OLS estimation of GDP per capita growth

VARIABLES	(1) gdp_pc_gr	(2) gdp_pc_gr	(3) gdp_pc_gr	(4) gdp_pc_gr	(5) gdp_pc_gr
ini_gdp_pc	-0.000218* (0.00)	-7.55e-05*** (0.00)	-5.20e-05*** (0.00)	-9.21e-05*** (0.00)	-5.83e-05*** (0.00)
ini_inv	0.0632* (0.04)	0.103*** (0.02)	0.105*** (0.02)	0.0492** (0.02)	0.0460** (0.02)
grosfixcap_gr	0.159*** (0.02)	0.151*** (0.01)	0.151*** (0.01)	0.140*** (0.01)	0.138*** (0.01)
rdexp_gdp	0.0161 (0.62)	-0.0473 (0.17)	0.0807 (0.18)	-0.102 (0.20)	0.0651 (0.21)
literacy	0.013 (0.02)				
middle	-0.302 (0.97)		0.851* (0.46)		0.0914 (0.47)
high	1.17 (1.91)		-0.186 (0.63)		-1.211* (0.71)
pricomplet		0.0254*** (0.01)	0.0141 (0.01)		
lowseccomplet				0.0296*** (0.00)	0.0307*** (0.00)
Constant	1.135 (1.53)	-1.541* (0.83)	-1.227 (0.86)	-0.543 (0.48)	-0.657 (0.53)
Observations	163	820	820	659	659
R-squared	0.301	0.385	0.392	0.398	0.404

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 3 Pooled OLS estimation of GDP per capita growth (cont)

VARIABLES	(6)	(7)	(8)	(9)	(10)	(11)
	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr
ini_gdp_pc	-6.88e-05*** (0.00)	-5.13e-05*** (0.00)	-7.76e-05*** (0.00)	-6.19e-05*** (0.00)	-6.27e-05*** (0.00)	-5.13e-05*** (0.00)
ini_inv2	0.103*** (0.02)	0.0945*** (0.02)	0.0801*** (0.02)	0.0789*** (0.02)	0.107*** (0.02)	0.103*** (0.02)
grosfixcap_gr	0.156*** (0.01)	0.157*** (0.01)	0.166*** (0.01)	0.166*** (0.01)	0.164*** (0.01)	0.165*** (0.01)
rdexp_gdp	0.0439 (0.15)	0.129 (0.15)	-0.0662 (0.15)	-0.000267 (0.16)	-0.119 (0.17)	-0.0278 (0.17)
middle		1.019*** (0.32)		0.54 (0.38)		1.364*** (0.38)
high		0.0954 (0.48)		-0.0701 (0.55)		0.704 (0.56)
prienrogross	-0.0208* (0.01)	-0.0247** (0.01)				
secenrogross			0.0156** (0.01)	0.0136** (0.01)		
tertenrogross					0.00661 (0.01)	0.00109 (0.01)
Constant	2.769** (1.23)	2.568** (1.22)	-0.0992 (0.52)	-0.35 (0.54)	0.387 (0.41)	-0.428 (0.46)
Observations	1084	1084	1002	1002	988	988
R-squared	0.387	0.396	0.392	0.395	0.391	0.401

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 3 Pooled OLS estimation of GDP per capita growth (cont)

VARIABLES	(12)	(13)	(14)	(15)	(16)	(17)
	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr
ini_gdp_pc	-7.68e-05*** (0.00)	-5.67e-05*** (0.00)	0.00727*** (0.00)	0.00658*** (0.00)	0.00790*** (0.00)	0.00674*** (0.00)
ini_inv2	0.0954*** (0.02)	0.0879*** (0.02)	0.148* (0.08)	0.139* (0.08)	0.177** (0.08)	0.163** (0.08)
grosfixcap_gr	0.193*** (0.01)	0.193*** (0.01)	0.0779*** (0.03)	0.0786*** (0.03)	0.0769*** (0.03)	0.0781*** (0.03)
rdexp_gdp	0.0723 (0.17)	0.217 (0.17)	1.475 (3.13)	0.836 (3.41)	1.744 (3.13)	0.633 (3.39)
middle		1.380*** (0.42)		0.958 (1.96)		1.682 (1.97)
high		0.15 (0.63)				
tertenrogross	0.000158 (0.01)	-0.00308 (0.01)	-0.159** (0.07)	-0.157** (0.07)	-0.209*** (0.07)	-0.208*** (0.07)
cpi	0.0676 (0.10)	0.107 (0.11)			-4.095** (1.75)	-4.321** (1.77)
trans_acc_cor			1.157 (1.24)	0.961 (1.31)	3.891** (1.78)	3.710** (1.80)
Constant	0.421 (0.52)	-0.559 (0.57)	-4.889 (3.41)	-3.925 (3.96)	-1.704 (3.78)	0.126 (4.35)
Observations	849	849	87	87	83	83
R-squared	0.457	0.47	0.27	0.272	0.316	0.323

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 3 Pooled OLS estimation of GDP per capita growth (cont)

VARIABLES	(18) gdp_pc_gr	(19) gdp_pc_gr	(20) gdp_pc_gr	(21) gdp_pc_gr	(22) gdp_pc_gr	(23) gdp_pc_gr
ini_gdp_pc	-8.01e-05*** (0.00)	-7.58e-05*** (0.00)	-9.02e-05*** (0.00)	-8.24e-05*** (0.00)	-7.28e-05*** (0.00)	-4.87e-05** (0.00)
ini_inv2	0.0975*** (0.02)	0.0958*** (0.02)	0.0964*** (0.02)	0.0929*** (0.02)	0.0959*** (0.02)	0.0874*** (0.02)
grosfixcap_gr	0.162*** (0.01)	0.163*** (0.01)	0.164*** (0.01)	0.162*** (0.01)	0.163*** (0.01)	0.161*** (0.01)
rdexp_gdp	-0.177 (0.19)	-0.171 (0.19)	-0.225 (0.19)	-0.103 (0.19)	-0.158 (0.19)	-0.148 (0.19)
tertenrogross	0.00394 (0.01)	0.0041 (0.01)	0.00307 (0.01)	0.00219 (0.01)	0.00445 (0.01)	0.00812 (0.01)
control	0.181 (0.23)					
rule		0.136 (0.23)				
goveff			0.407* (0.24)			
stab				0.287 (0.19)		
regq					0.101 (0.21)	
voice						-0.381* (0.20)
Constant	0.891* (0.46)	0.887* (0.46)	0.955** (0.46)	1.033** (0.48)	0.816* (0.46)	0.795* (0.45)
Observations	825	825	823	822	823	825
R-squared	0.387	0.387	0.389	0.389	0.387	0.39

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 3 Pooled OLS estimation of GDP per capita growth (cont)

VARIABLES	(24)	(25)	(26)	(27)	(28)	(29)	(30)
	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr
ini_gdp_pc	-3.94e-05*	-8.07e-05***	-5.69e-05**	-7.19e-05***	-4.64e-05*	0.00906***	0.0101***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
ini_inv2	0.0805***	0.0641***	0.0577***	0.0542***	0.0461**	0.155*	0.168*
	-0.0189	-0.0202	-0.0202	-0.0209	-0.0207	-0.087	-0.0895
grossfixcap_gr	0.162***	0.162***	0.162***	0.188***	0.188***	0.0804***	0.0802***
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.03)	(0.03)
rdexp_gdp	-0.0473	-0.222	-0.127	0.0535	0.213	-10.03**	-10.16**
	(0.19)	(0.21)	(0.21)	(0.21)	(0.21)	(4.74)	(4.76)
middle	1.908***		1.452***		1.450***		-1.359
	(0.44)		(0.48)		(0.48)		(2.14)
high	1.358**		0.211		-0.136		
	(0.66)		(0.74)		(0.74)		
tertenrogross	-0.000745	0.00605	0.0026	0.000214	-0.00276	-0.172**	-0.171**
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.08)	(0.09)
cpi				0.0632	0.0844		
				(0.26)	(0.26)		
trans_acc_cor						3.967*	4.009*
						(2.25)	(2.26)
control		-0.481	-0.459	-0.721	-0.729	-6.958*	-7.043*
		(0.43)	(0.43)	(0.65)	(0.65)	(3.69)	(3.70)
rule		0.00792	0.596	0.188	0.805	3.857	4.668
		(0.60)	(0.61)	(0.60)	(0.60)	(4.12)	(4.33)
goveff		1.265**	0.846	0.908	0.493	3.934	3.681
		(0.59)	(0.60)	(0.60)	(0.61)	(3.29)	(3.32)
stab		0.463**	0.373	0.599***	0.511**	-2.515*	-2.887**
		(0.23)	(0.23)	(0.23)	(0.23)	(1.27)	(1.40)
regq		0.232	0.235	0.126	0.111	-3.069	-2.892
		(0.45)	(0.45)	(0.46)	(0.46)	(3.19)	(3.21)
voice	-0.447**	-1.208***	-1.290***	-1.141***	-1.161***	2.043	2.294
	(0.20)	(0.32)	(0.32)	(0.34)	(0.34)	(2.62)	(2.66)
Constant	-0.275	1.436***	0.649	1.358	0.505	-12.53	-12.84
	-0.511	-0.488	-0.578	-1.088	-1.101	-8.132	-8.179
Observations	825	822	822	727	727	87	87
R-squared	0.405	0.405	0.418	0.468	0.484	0.385	0.389

Notes: Standard errors in parentheses. \*\*\* p&lt;0.01, \*\* p&lt;0.05, \* p&lt;0.1

Table 3 Pooled OLS estimation of GDP per capita growth (cont)

VARIABLES	(31)	(32)	(33)	(34)	(35)
	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr
ini_gdp_pc	-0.000016 (0.00)	-0.000022 (0.00)	-5.00e-05** (0.00)	-5.46e-05* (0.00)	-6.75e-05** (0.00)
ini_inv2	-0.0207 (0.05)	0.0148 (0.05)	0.0484** (0.02)	0.0382 (0.02)	0.0410 (0.03)
grossfixcap_gr	0.267*** (0.02)	0.234*** (0.02)	0.199*** (0.01)	0.195*** (0.01)	0.192*** (0.01)
rdexp_gdp	-0.19200 (0.19)	-0.27500 (0.19)	0.26300 (0.23)	0.27200 (0.26)	0.30500 (0.27)
middle	1.869* (1.02)	1.42 (1.04)	1.269* (0.65)	2.895*** (0.76)	1.880** (0.78)
high	0.86700 (1.20)	0.67900 (1.22)	-0.59800 (0.80)	0.95200 (0.98)	-0.27100 (1.06)
tertenrogross	-0.00892 (0.01)	-0.01500 (0.01)	-0.00938 (0.01)	-0.00647 (0.01)	-0.00407 (0.01)
cpi	-0.03310 (0.18)			0.03940 (0.16)	0.18400 (0.19)
int_homi	-0.02580 (0.02)	-0.02230 (0.02)			
theft			0.00 (0.00)		
rob				-0.00066 (0.00)	
sex_vio					(0.01) (0.01)
Constant	2.168** (1.06)	2.082** (1.04)	1.412* (0.76)	0.03 (0.94)	0.36 (0.97)
Observations	196	206	473	432	354
R-squared	0.65	0.63	0.53	0.50	0.51

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 3 Pooled OLS estimation of GDP per capita growth (cont)

VARIABLES	(36)	(37)	(38)
	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr
ini_gdp_pc	-9.17e-05*** (0.00)	-4.97e-05* (0.00)	0.0000 (0.00)
ini_inv2	0.0569** (0.02)	0.0524** (0.02)	-0.0257 (0.07)
grosfixcap_gr	0.190*** (0.01)	0.185*** (0.01)	0.286*** (0.02)
rdexp_gdp	0.05 (0.26)	0.31 (0.26)	0.16 (0.27)
middle		1.767** (0.71)	0.63 (1.52)
high		-0.0781 (0.90)	-1.5320 (1.66)
tertenrogress	-0.0042 (0.01)	-0.0064 (0.01)	0.0081 (0.01)
cpi			0.01 (0.25)
int_homi			-0.0298 (0.02)
theft			0.0001 (0.00)
rob			-0.0003 (0.00)
sex_vio	0.00 (0.01)	-0.0021 (0.01)	-0.0067 (0.01)
Constant	1.886*** (0.65)	0.77 (0.81)	2.732* (1.49)
Observations	382	382	115
R-squared	0.49	0.51	0.76

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 4 Fixed effects estimation of GDP per capita growth

VARIABLES	(1) gdp_pc_gr	(2) gdp_pc_gr	(3) gdp_pc_gr	(4) gdp_pc_gr	(5) gdp_pc_gr
grosfixcap_gr	0.182*** (0.03)	0.133*** (0.01)	0.133*** (0.01)	0.121*** (0.01)	0.123*** (0.01)
rdexp_gdp	-0.99 (2.31)	-2.380*** (0.68)	-1.833*** (0.70)	-2.370*** (0.82)	-2.188** (0.85)
literacy	-0.105 (0.14)				
middle	3.538 (2.62)		2.167** (0.85)		2.121** (0.98)
high	3.989 (4.44)		0.205 (1.09)		1.237 (1.31)
pricomplet		0.0445* (0.03)	0.0339 (0.03)		
lowseccomplet				(32473.00) 0.0498*** (0.01)	0.0457*** (0.01)
Constant	9.141 (11.18)	0.573 (2.42)	-0.148 (2.44)	-2.521 (4.87)	-1.399 (1.28)
Observations	163	820	820	659	659
R-squared	0.257	0.286	0.301	0.307	0.314
Number of country	72	107	107	99	99

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 4 Fixed effects estimation of GDP per capita growth (cont)

VARIABLES	(6) gdp_pc_gr	(7) gdp_pc_gr	(8) gdp_pc_gr	(9) gdp_pc_gr	(10) gdp_pc_gr	(11) gdp_pc_gr
grosfixcap_gr	0.141*** (0.01)	0.141*** (0.01)	0.154*** (0.01)	0.154*** (0.01)	0.153*** (0.01)	0.152*** (0.01)
rdexp_gdp	-2.051*** (0.50)	-1.843*** (0.51)	-2.076*** (0.51)	-1.776*** (0.51)	-1.984*** (0.57)	-1.841*** (0.56)
middle		1.991*** (0.61)		1.467** (0.66)		2.304*** (0.73)
high		0.263 (0.88)		-0.367 (0.93)		0.311 (1.03)
prienrogross	0.00868 (0.02)	0.00338 (0.02)				
secenrogross			0.0307* (0.02)	0.0273* (0.02)		
tertenrogross					0.00365 (0.01)	0.0073 (0.01)
Constant	3.493 (2.24)	2.795 (2.25)	1.696 (1.43)	1.162 (1.47)	4.273*** (0.62)	2.754*** (0.87)
Observations	1,084	1,084	1,002	1,002	988	988
R-squared	0.31	0.323	0.339	0.348	0.334	0.348
Number of country	113	113	107	107	109	109

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 4 Fixed effects estimation of GDP per capita growth (cont)

VARIABLES	(12)	(13)	(14)	(15)	(16)	(17)
	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr
grosfixcap_gr	0.192*** (0.01)	0.190*** (0.01)	0.0735*** (0.03)	0.0742*** (0.03)	0.0724** (0.03)	0.0732** (0.03)
rdexp_gdp	-1.184** (0.58)	-1.104* (0.58)	-8.805 (9.66)	-8.755 (9.74)	-9.395 (10.16)	-9.315 (10.25)
middle		0.43 (0.79)		0.653 (2.84)		0.814 (2.97)
high		-1.65 (1.09)				
tertenrogross	-0.00636 (0.01)	0.00221 (0.01)	-0.421 (0.26)	-0.444 (0.28)	-0.441 (0.28)	-0.473 (0.30)
cpi	0.148 (0.24)	0.275 (0.25)			-1.06 (3.47)	-1.217 (3.54)
trans_acc_cor			4.239 (2.85)	4.159 (2.90)	4.492 (3.07)	4.431 (3.10)
Constant	3.039** (1.33)	2.404* (1.43)	3.241 (9.24)	3.654 (9.49)	6.302 (12.94)	7.213 (13.47)
Observations	849	849	87	87	83	83
R-squared	0.451	0.458	0.215	0.216	0.216	0.218
Number of country	100	100	24	24	23	23

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 4 Fixed effects estimation of GDP per capita growth (cont)

VARIABLES	(18)	(19)	(20)	(21)	(22)	(23)
	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr
grosfixcap_gr	0.149*** (0.01)	0.152*** (0.01)	0.151*** (0.01)	0.150*** (0.01)	0.152*** (0.01)	0.150*** (0.01)
rdexp_gdp	-1.725*** (0.65)	-1.894*** (0.65)	-2.012*** (0.65)	-1.756*** (0.66)	-1.924*** (0.65)	-1.854*** (0.66)
tertenrogross	0.00132 (0.01)	-0.00174 (0.01)	-0.00192 (0.01)	0.0002 (0.01)	0.000896 (0.01)	0.0017 (0.01)
control	2.385*** (0.73)					
rule		1.215 (0.97)				
goveff			2.259*** (0.79)			
stab				0.859 (0.53)		
regq					1.424* (0.78)	
voice						0.64 (0.92)
Constant	3.176*** (0.82)	3.963*** (0.80)	3.383*** (0.81)	4.058*** (0.77)	3.583*** (0.84)	4.008*** (0.87)
Observations	825	825	823	822	823	825
R-squared	0.338	0.329	0.335	0.328	0.33	0.328
Number of country	108	108	108	108	108	108

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 4 Fixed effects estimation of GDP per capita growth (cont)

VARIABLES	(24)	(25)	(26)	(27)	(28)	(29)	(30)
	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr
grosfixcap_gr	0.150*** (0.01)	0.148*** (0.01)	0.149*** (0.01)	0.187*** (0.01)	0.185*** (0.01)	0.0803*** (0.03)	0.0773*** (0.03)
rdexp_gdp	-1.784*** (0.65)	-1.797*** (0.67)	-1.738*** (0.66)	-0.889 (0.68)	-0.883 (0.67)	-8.836 (10.19)	-9.685 (10.30)
middle	2.608*** (0.88)		2.818*** (0.92)		0.528 (0.93)		-2.469 (3.39)
high	0.341 (1.19)		0.431 (1.23)		-1.81 (1.25)		
tertenrogross	0.00798 (0.01)	0.000565 (0.01)	0.00559 (0.01)	-0.0145 (0.02)	-0.00569 (0.02)	-0.296 (0.28)	-0.225 (0.30)
cpi				-0.0715 (0.31)	0.0936 (0.32)		
trans_acc_cor						4.047 (3.15)	4.527 (3.23)
control		1.967** (0.84)	1.732** (0.84)	1.606* (0.95)	1.141 (0.96)	5.256 (7.36)	4.17 (7.54)
rule		-0.98 (1.21)	-0.27 (1.21)	-0.219 (1.23)	0.252 (1.24)	0.991 (9.52)	-0.437 (9.76)
goveff		1.554* (0.94)	1.658* (0.93)	2.173** (0.96)	2.363** (0.95)	-3.366 (6.73)	-4.747 (7.02)
stab		0.474 (0.59)	0.363 (0.58)	0.148 (0.57)	0.151 (0.57)	-5.784* (2.95)	-6.392** (3.08)
regq		0.281 (0.89)	0.278 (0.88)	-1.053 (0.90)	-0.923 (0.90)	-1.439 (6.53)	-1.354 (6.56)
voice	0.612 (0.91)	-0.196 (1.00)	-0.35 (0.99)	-0.185 (1.05)	-0.273 (1.04)	5.952 (5.93)	7.201 (6.19)
Constant	2.302** (1.10)	2.853*** (0.95)	0.889 (1.19)	3.039* (1.55)	2.15 (1.64)	2.154 (12.45)	-1.728 (13.59)
Observations	825	822	822	727	727	87	87
R-squared	0.345	0.34	0.358	0.455	0.464	0.301	0.308
Number of country	108	108	108	100	100	24	24

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 4 Fixed effects estimation of GDP per capita growth (cont)

VARIABLES	(31) gdp_pc_gr	(32) gdp_pc_gr	(33) gdp_pc_gr	(34) gdp_pc_gr	(35) gdp_pc_gr
grosfixcap_gr	0.265*** (0.02)	0.265*** (0.02)	0.200*** (0.01)	0.195*** (0.01)	0.186*** (0.01)
rdexp_gdp	-0.735 (1.15)	-1.057 (1.07)	-0.885 (1.00)	-1.351 (1.20)	-1.58 (1.46)
middle	0.424 (2.08)	0.15 (2.06)	0.24 (1.31)	2.364 (1.82)	0.879 (1.77)
high	0.415 (2.47)	-0.371 (2.40)	-2.469 (1.60)	-0.572 (2.10)	-2.54 (2.13)
tertenrogross	-0.0368 (0.02)	-0.0463* (0.02)	-0.0696** (0.03)	-0.0626* (0.03)	-0.0959** (0.04)
cpi	-0.880* (0.52)			0.349 (0.49)	0.425 (0.62)
int_homi	-0.0739 (0.11)	-0.0158 (0.10)			
theft			2.83E-05 (0.00)		
rob				0.00251 (0.01)	
sex_vio					0.00406 (0.02)
Constant	10.12** (3.90)	5.960** (2.77)	8.061*** (2.05)	4.231 (3.56)	7.920* (4.15)
Observations	196	206	473	432	354
R-squared	0.646	0.639	0.509	0.487	0.492
Number of country	28	29	77	74	61

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 4 Fixed effects estimation of GDP per capita growth (cont)

VARIABLES	(36)	(37)	(38)
	gdp_pc_gr	gdp_pc_gr	gdp_pc_gr
grosfixcap_gr	0.180*** (0.01)	0.292*** (0.02)	0.121*** (0.01)
rdexp_gdp	-1.236 (1.23)	0.834 (1.96)	-2.370*** (0.82)
middle	0.532 (1.48)	2.241 (1.72)	
high	-2.749 (1.81)		
lowseccomplet			0.0498*** (0.01)
tertenrgross	-0.0996*** (0.04)	-0.0313 (0.05)	
cpi		-0.0568 (0.95)	
int_homi		-0.0794 (0.12)	
theft		2.34E-05 (0.00)	
rob		0.00314 (0.01)	
sex_vio	-0.00151 (0.02)	-0.00287 (0.02)	
Constant	10.29*** (2.34)	1.316 (7.09)	-0.0875 (1.08)
Observations	382	115	659
R-squared	0.493	0.725	0.307
Number of country	63	23	99

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 5 Fixed effects estimation of Gross saving rate

VARIABLES	(1) grosssaving	(2) grosssaving	(3) grosssaving	(4) grosssaving
lngdp_pc	4.119*** (0.556)	5.301*** (0.496)	10.60*** (1.162)	14.05*** (4.275)
laggdp_gr	0.265*** (0.023)	0.295*** (0.024)	0.118*** (0.032)	0.166** (0.077)
dependency	-0.029 (0.020)	-0.0868*** (0.019)	0.00289 (0.053)	0.351* (0.181)
urbanization	-0.0352 (0.030)	-0.170*** (0.029)	-0.242*** (0.087)	-0.823*** (0.313)
reso_exp		0.0720*** (0.011)		
cpi			-0.887*** (0.285)	
tran_acc				0.821 (1.358)
Constant	-9.846* (5.341)	-10.41** (4.951)	-48.34*** (11.500)	-74.66** (36.170)
Observations	4,865	3,768	1,752	448
R-squared	0.052	0.116	0.089	0.065
Number of country	175	160	154	67

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 5 Fixed effects estimation of Gross saving rate (cont)

VARIABLES	(5) grosssaving	(6) grosssaving	(7) grosssaving	(8) grosssaving
lngdp_pc	9.640** (4.631)	9.841*** (1.067)	8.709* (4.627)	7.42 (5.150)
laggdp_gr	0.130* (0.075)	0.218*** (0.032)	0.208** (0.087)	0.236*** (0.090)
dependency	0.0725 (0.200)	0.0269 (0.048)	0.890*** (0.197)	0.551** (0.224)
urbanization	-1.126*** (0.354)	-0.191** (0.080)	0.831* (0.423)	0.284 (0.480)
reso_exp		0.0689*** (0.018)	0.0351 (0.036)	0.0382 (0.036)
cpi	-0.57 (0.828)	-0.531** (0.257)		-0.391 (0.817)
tran_acc	1.96 (1.458)		0.567 (1.341)	1.734 (1.531)
Constant	-14.25 (39.360)	-50.77*** (10.680)	-139.5*** (38.740)	-88.29** (43.240)
Observations	371	1,613	314	278
R-squared	0.061	0.145	0.119	0.091
Number of country	62	145	55	54

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 5 Fixed effects estimation of Gross saving rate (cont)

VARIABLES	(9)	(10)	(11)	(12)	(13)	(14)
	grosssaving	grosssaving	grosssaving	grosssaving	grosssaving	grosssaving
lngdp_pc	9.625*** (1.236)	9.813*** (1.266)	9.739*** (1.246)	10.84*** (1.297)	11.26*** (1.275)	9.592*** (1.237)
laggdp_gr	0.209*** (0.035)	0.205*** (0.035)	0.207*** (0.035)	0.204*** (0.035)	0.191*** (0.035)	0.206*** (0.035)
dependency	0.0741 (0.055)	0.0709 (0.055)	0.0758 (0.056)	0.0923* (0.055)	0.113** (0.055)	0.0741 (0.056)
urbanization	-0.145 (0.092)	-0.15 (0.093)	-0.153 (0.093)	-0.183** (0.093)	-0.200** (0.092)	-0.139 (0.093)
reso_exp	0.0481** (0.019)	0.0454** (0.019)	0.0479** (0.019)	0.0403** (0.019)	0.0431** (0.019)	0.0474** (0.019)
cpi	-0.565* (0.309)	-0.626** (0.294)	-0.660** (0.287)	-0.532* (0.289)	-0.413 (0.289)	-0.656** (0.290)
cc	-0.84 (0.841)					
goveff		-0.696 (0.906)				
stab			-0.426 (0.498)			
regq				-2.303*** (0.758)		
rule					-4.458*** (0.948)	
voice						-0.451 (0.842)
Constant	-53.51*** (12.170)	-54.23*** (12.290)	-53.81*** (12.200)	-61.89*** (12.470)	-66.10*** (12.370)	-53.21*** (12.170)
Observations	1,391	1,391	1,391	1,391	1,391	1,391
R-squared	0.113	0.113	0.113	0.119	0.128	0.113
Number of country	145	145	145	145	145	145

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 5 Fixed effects estimation of Gross saving rate (cont)

VARIABLES	(15)	(16)	(17)	(18)	(19)
	grosssaving	grosssaving	grosssaving	grosssaving	grosssaving
lngdp_pc	-3.522 (8.390)	-0.162 (8.906)	-1.974 (12.840)	-0.00312 (7.095)	4.703 (17.620)
laggdp_gr	0.371*** (0.119)	0.380*** (0.117)	0.350*** (0.126)	0.240** (0.108)	0.344** (0.148)
dependency	0.0912 (0.505)	0.25 (0.572)	0.508 (0.701)	0.0614 (0.425)	0.671 (1.171)
urbanization	0.524 (0.882)	0.271 (0.878)	0.486 (1.025)	-0.892 (0.977)	0.03 (1.440)
reso_exp	0.0186 (0.076)	0.0273 (0.069)	0.0298 (0.079)	-0.0639 (0.084)	-0.0043 (0.133)
cpi	-0.351 (1.870)	0.859 (1.501)	0.0127 (1.936)	1.224 (1.689)	1.759 (2.133)
tran_acc	4.517 (3.150)	4.553 (2.798)	5.303* (3.076)	2.509 (2.359)	-1.69 (3.987)
cc					19.12* (9.935)
goveff					-24.25** (9.427)
stab					2.803 (4.515)
regq					10.12 (6.168)
rule					-22.32** (10.400)
voice					6.49 (9.193)
theft	-0.00501 (0.007)				-0.0103 (0.012)
robbery		0.0479 (0.043)			0.016 (0.095)
sex_vio			0.00429 (0.026)		0.0467 (0.051)
int_homi				-0.0649 (0.110)	-0.661** (0.318)
Constant	0.56 (89.230)	-29.86 (95.510)	-41.58 (127.400)	40.65 (80.080)	-56.35 (186.700)
Observations	108	118	104	141	76
R-squared	0.18	0.184	0.186	0.142	0.512
Number of country	25	28	25	29	18

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 6 Fixed effects estimation of Genuine Saving rate

VARIABLES	(1) gs	(2) gs	(3) gs	(4) gs
lngdp_pc	8.003*** (0.99)	8.182*** (0.91)	13.45*** (1.11)	17.52*** (5.24)
laggdp_gr	0.190*** (0.03)	0.157*** (0.03)	0.0775** (0.03)	-0.0802 (0.10)
dependency	-0.0347 (0.03)	-0.0667** (0.03)	0.0887* (0.05)	0.314 (0.22)
urbanization	-0.196*** (0.06)	-0.292*** (0.06)	-0.583*** (0.08)	-0.986*** (0.36)
reso_exp		-0.0385** (0.02)		
cpi			0.269 (0.27)	
tran_acc				1.639 (1.73)
Constant	-45.92*** (8.95)	-39.05*** (8.50)	-76.41*** (10.96)	-103.8** (44.48)
Observations	2,951	2,471	1,683	402
R-squared	0.056	0.072	0.116	0.044
Number of country	154	144	142	59

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 6 Fixed effects estimation of Genuine Saving rate (cont)

VARIABLES	(5) gs	(6) gs	(7) gs	(8) gs
lngdp_pc	17.37*** (5.45)	13.86*** (1.09)	12.37** (5.43)	13.87** (5.87)
laggdp_gr	-0.0906 (0.09)	0.126*** (0.03)	0.108 (0.11)	0.114 (0.11)
dependency	0.125 (0.24)	0.0983** (0.05)	0.711*** (0.24)	0.396 (0.27)
urbanization	-1.530*** (0.41)	-0.456*** (0.08)	0.605 (0.50)	-0.267 (0.55)
reso_exp		-0.0528*** (0.02)	-0.0018 (0.04)	-0.00218 (0.04)
cpi	-0.875 (0.98)	0.213 (0.26)		-1.041 (0.93)
tran_acc	2.215 (1.72)		1.15 (1.66)	2.294 (1.70)
Constant	-67.14 (46.82)	-87.01*** (10.86)	-156.0*** (46.33)	-111.0** (50.52)
Observations	343	1,564	293	261
R-squared	0.065	0.145	0.063	0.054
Number of country	56	134	50	49

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 6 Fixed effects estimation of Genuine Saving rate (cont)

VARIABLES	(9)	(10)	(11)	(12)	(13)	(14)
	gs	gs	gs	gs	gs	gs
lngdp_pc	13.54** (5.51)	14.84*** (5.45)	10.04* (5.67)	11.23** (5.63)	13.24** (5.40)	11.59** (5.41)
laggdp_gr	0.108 (0.11)	0.0972 (0.10)	0.103 (0.11)	0.113 (0.11)	0.117 (0.11)	0.102 (0.11)
dependency	0.734*** (0.24)	0.732*** (0.24)	0.678*** (0.24)	0.678*** (0.25)	0.721*** (0.24)	0.719*** (0.24)
urbanization	0.555 (0.50)	0.577 (0.49)	0.703 (0.50)	0.58 (0.50)	0.447 (0.50)	0.712 (0.50)
reso_exp	-0.00514 (0.04)	-0.00374 (0.04)	-0.00427 (0.04)	-0.0019 (0.04)	0.00396 (0.04)	0.000628 (0.04)
tran_acc	1.703 (1.72)	1.741 (1.66)	0.948 (1.67)	1.206 (1.67)	1.197 (1.65)	2.171 (1.72)
cc	-3.351 (2.79)					
goveff		-7.697*** (2.93)				
stab			2.289 (1.65)			
regq				1.978 (2.52)		
rule					-7.851** (3.44)	
voice						-7.521** (3.65)
Constant	-167.0*** (47.20)	-178.5*** (46.57)	-139.7*** (47.70)	-144.4*** (48.66)	-161.3*** (45.99)	-161.5*** (46.10)
Observations	293	293	293	293	293	293
R-squared	0.069	0.09	0.071	0.066	0.083	0.08
Number of country	50	50	50	50	50	50

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 6 Fixed effects estimation of Genuine Saving rate (cont)

VARIABLES	(15) gs	(16) gs	(17) gs
lngdp_pc	14.57*** (1.32)	14.70*** (1.30)	13.85*** (1.25)
laggdp_gr	0.120*** (0.04)	0.113*** (0.04)	0.122*** (0.04)
dependency	0.125** (0.06)	0.135** (0.06)	0.118** (0.06)
urbanization	-0.453*** (0.09)	-0.457*** (0.09)	-0.423*** (0.09)
reso_exp	-0.0629*** (0.02)	-0.0614*** (0.02)	-0.0592*** (0.02)
cpi	0.0903 (0.29)	0.139 (0.29)	0.0388 (0.29)
regq	-1.305* (0.77)		
rule		-2.276** (0.98)	
voice			-0.624 (0.86)
Constant	-93.35*** (12.67)	-94.99*** (12.63)	-88.89*** (12.35)
Observations	1,346	1,346	1,346
R-squared	0.129	0.131	0.128
Number of country	134	134	134

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 6 Fixed effects estimation of Genuine Saving rate (cont)

VARIABLES	(18) gs	(19) gs	(20) gs	(21) gs	(22) gs
lngdp_pc	10.1 (10.28)	12.76 (11.28)	-16.11 (15.59)	4.904 (8.36)	0.136 (20.47)
laggdp_gr	0.283* (0.15)	0.260* (0.15)	0.229 (0.16)	0.159 (0.13)	0.174 (0.19)
dependency	-0.195 (0.66)	0.106 (0.76)	-0.671 (0.88)	-0.48 (0.51)	0.478 (1.40)
urbanization	-0.0433 (1.21)	0.127 (1.12)	1 (1.27)	-1.868 (1.15)	-0.697 (1.67)
reso_exp	-0.0622 (0.09)	-0.0415 (0.08)	-0.122 (0.09)	-0.107 (0.10)	-0.145 (0.15)
cpi	0.236 (2.53)	0.829 (1.88)	0.582 (2.54)	1.531 (2.15)	3.771 (2.87)
tran_acc	5.802 (3.81)	6.822** (3.33)	8.001** (3.62)	5.120* (2.75)	1.059 (4.69)
cc					5.397 (11.54)
goveff					-6.444 (10.98)
stab					9.265* (5.15)
regq					7.632 (7.17)
rule					-35.95*** (11.92)
voice					4.546 (10.70)
theft	0.00315 (0.01)				0.0053 (0.02)
robbery		0.076 (0.05)			0.0996 (0.14)
sex_vio			-0.0142 (0.03)		-0.0271 (0.07)
int_homi				-0.104 (0.13)	-0.636 (0.42)
Constant	-68.12 (119.40)	-121.3 (129.00)	93.12 (156.00)	60.3 (94.16)	-13.81 (220.00)
Observations	98	109	93	129	72
R-squared	0.142	0.162	0.157	0.101	0.469
Number of country	23	25	21	24	16

Notes: Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1