The Urban-Rural Happiness Gradient Across Countries

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This study shows, for the first time, that city unhappiness is common across the world. In all developed countries, people are happier in smaller places than in large places. Without exception, we find that city dwellers are not happier than rural residents. This finding is important because it contravenes a common belief that emerged claiming that urban areas are happier, arguably for ideological reasons (e.g., Glaeser 2011b, Glaeser et al. 2016, Burger et al. 2020). The effort to contravene the findings that cities tend to be less happy than smaller areas, is arguably due to economics axioms: money is centered in cities (production, productivity, income, and consumption increase with population size), and therefore, cities have greater utility, so they must be happier. Yet, empirical evidence says otherwise.

Research by Berry and Okulicz-Kozaryn (2011) provided evidence of an "urban-rural gradient" in most countries, where happiness levels rises from lowest in largest cities to highest in smallest places. The gradient is non-linear—the very largest cities are markedly less happy than all other areas in a country, for example: New York City (Okulicz-Kozaryn and Mazelis 2016, Senior 2006), London (Office for National Statistics 2011, Chatterji 2013), Helsinki (Morrison 2015), Bucharest (Lenzi and Perucca 2016), and Sydney (cited in Morrison 2011). The goal of this paper is to test the gradient across countries using one dataset with uniform variables. This study shows, for the first time, that city unhappiness is common across the world ¹

The intersection of Quality of Life (QOL), or Subjective Wellbeing (SWB)², and Urban Studies is an exciting new area of research. Academics, policymakers, administrators, and people in general, have started to pay more attention to quality of life indicators, and not just to monetary measures such as GDP or income. It is now commonly accepted, even among economists (Stiglitz et al. 2009), that money does not capture the full dimension of subjective wellbeing, being therefore timely to observe human flourishing and examine determinants of happiness for improving quality of life. This occurs at a time when the world is experiencing massive urbanization—arguably, the most dramatic change to our way of life Wirth (1938), Hanson (2015). Hence, it raises the question, how do cities affect the human condition? Specifically, do cities affect subjective wellbeing?

Modern research on the effect of cities on human wellbeing should be rooted on extensive classic urban sociological research (Tönnies [1887] 2002, Wirth 1938, Simmel 1903, Park 1915, Park et al. [1925] 1984), which contended about the negative effect of cities on humans. Quantitative research on the urban-rural happiness gradient dates back to Gurin et al. (1960) and Campbell et al. (1976), who found a negative effect of urbanicity on humans. Over the past several decades, several dozen studies mostly found a negative effect of urbanicity on human wellbeing as well [blind for peer-review].

Yet, most research in the area examines the United States, Western Europe, and recently China and handful of other countries. Most studies are conducted focusing on a single country. Hence, we contribute to the literature by using a uniform dataset across countries.

In what follows, we investigate the relationship between urbanicity and happiness across the world. We begin by defining SWB and the mechanisms likely to link the size of a place to SWB, then discuss the evolving literature on urbanicity and wellbeing, and provide a critical review of economic theory. Then, we present our model, documenting how we used the received literature to control for sources of individual variation, discuss results, and conclude by discussing our the findings that urban dwellers are unhappier across the world, when compared to rural residents.

¹Most extant research about the urban-rural happiness gradient is about the United States, Western Europe, recently China, and a handful of other countries. These studies were conducted in single countries, but not using a uniform dataset across countries. The three apparent exceptions (Berry and Okulicz-Kozaryn 2009, Burger et al. 2020, Easterlin et al. 2010a) do not actually examine the gradient—they all use binary urban-rural operationalizations and present simple mean differences for each country and aggregate results to group of countries in regressions. Similarly, Gallup data used by Burger et al. (2020) and Easterlin et al. (2010a) are problematic as elaborated later on in this paper.

²SWB and QOL overlap, but there are important differences, notably QOL is more of an index/aggregate of domains and more subjective, while SWB is subjective mostly an evaluation of one's life as a whole–for a discussion see Okulicz-Kozaryn and Valente (2019). For simplicity, we use the terms interchangeably throughout the paper.

Subjective Wellbeing

Subjective wellbeing is an umbrella term for various subjective measures of wellbeing, notably positive and negative affects, happiness, and life satisfaction. Most of the SWB research, including this study, uses the life satisfaction measure, which is a global self evaluation of one's life as a whole. This measure is mostly cognitive and not affective—a respondent evaluates her life as whole globally (everything, including professional, personal, family, community, etc). The measure captures everything that is going on in one's life—that's a major advantage of the SWB measure over other social and economic indicators aiming at measuring the human condition, progress, and development. The SWB measure is simply the most comprehensive measure possible dwarfing earlier measures such as income, education, or life expectancy. For a review see Diener (2009). Following usual practice, for simplicity, we use these terms interchangeably: SWB, happiness, and life satisfaction, but specifically we mostly mean life satisfaction as defined above.

The SWB measure is also at least adequately reliable and valid and considered good enough for public policy making and public administration (Diener 2009, Stiglitz et al. 2009). And it has been used multiple times in urban research (e.g., Moeinaddini et al. 2020, Mouratidis 2019, Wang et al. 2019, and 2017, Ma et al. 2017, Wkeziak-Bialowolska 2016, Valente and Berry 2016, Chen et al. 2015).

There are cross-cultural comparability caveats, however, and SWB may not be adequately comparable across countries (Kahneman et al. 1999, Diener 2009). This limitation should be kept in mind when comparing results across countries in the present study. More focus should be on within-country differences, and this is what this study is mostly about—the difference between smaller and larger places in terms of SWB within countries. We treat each country separately and do not pull the data together. In short, one should focus on within-country differences across urbanicity and exercise caution when comparing effects across countries.

Definition, Theory, and Potential Causal Mechanism

This is an observational study, not an experiment, and we don't test causality, nevertheless it is important to discuss the potential causal mechanisms driving unhappiness in the largest places.

It is useful to start with the theory that defines urbanicity and predicts how it would affect SWB. We start with the classic urban sociological theory of urban malaise (Tönnies [1887] 2002, Wirth 1938, Simmel 1903, Park 1915, Park et al. [1925] 1984): cities produce superficiality, transitoriness, withdrawal, impersonality, superficiality, deviance, shallowness, anomie, alienation, and cognitive overload.³ Sociological theory does not specify at which point urban malaise arises, there is clearly no hard cutoff point, rather, the more urban, the more malaise. There may be a certain threshold though, at which malaise intensifies as hinted at by Fischer (1973): in the largest cities. In classical urban sociology, a city is defined by a large population size, its density, and heterogeneity (Wirth 1938), and clearly it is not a binary distinction, but a gradient:"we should not expect to find abrupt and discontinuous variation between urban and rural" (Wirth 1938, p. 2). To sum up, urbanicity has mostly negative effect on humans, and it is rather a continuum than a binary, although a threshold at a population of several hundred thousand may exist where malaise intensifies.

Another indication of continuity in the effect of the size of a place on the human condition comes from physics. There is a physical city constant of 1.15: if you double the area's population size, many phenomena (crime, GDP, income, patents) increase by 15% (Bliss 2014, Bettencourt et al. 2010, Bettencourt and West 2010, Bettencourt et al. 2007).⁴

We would like to especially highlight that for over 95% of our evolutionary history⁵ we have lived outside of cities as hunter-gatherers usually in small bands of 50–80 people (Maryanski and Turner 1992). This way of life, only started to slowly change in about 10,000 years B.C. with the domestication of animals and agriculture. The first large cities (larger than several hundred thousand) only emerged after 500 B.C. and there were just handful of them. It was only after industrialization that large cities started to house noticeable proportion of the population, and only in the 20th century that we saw an urbanization explosion—in 1800 a mere 1.7% of the world population lived in cities larger than 100k, it slowly increased to 2.3% in 1850, by another 50 years it doubled to 5.5% in 1900, and then it doubled again to 13% in 1950 (Davis 1955).

The larger the place, the more the environment differs from the habitat in which we have evolved: dense and crowded, airports, subway or rapid transit, tall buildings in downtown, etc. And while urbanness is a continuum, there is a threshold, likely around several hundred thousands of people, when the built environment changes significantly. There are at least several significantly different stages of urbanness on the urbanness continuum: wilderness, open country, villages, small towns, large towns, cities, large cities, and very large cities. Surely, it is difficult to capture urbanness in its entirety—most datasets only allow us to analyze a few stages, including

³The classics argued that poor social ties existed in cities, but refer to later arguments by Fischer and his subcultural theory (Fischer 1995, 1975, 1972).

⁴For example, supposed there's a city with a population of 1 million and a murder rate of 10 per 100k, for a city with a population of 2 million, the murder

rate would be 11.5 per 100k, and so on.

⁵Per human species evolutionary history, for instance, see encyclopedia Britannica http://www.britannica.com/EBchecked/topic/277071/hunting-and-gathering-culture. For post-medieval history see White and White (1977).

⁶There are striking examples of crowding in largest cities. To be sure, the majority of urban population does not live in such extreme crowding, the trend however is in that direction as cities are becoming larger and less affordable. And, even without extreme crowding, the usual population density is related to crime (Bettencourt and West 2010). There is also evidence that density relates to negative consequences: interestingly, there is evidence that density impacts pathology more than crowding (Levy and Herzog 1974). Yet, it is not only density and crowding, other factors such as social support matter as well (Cassel 2017). Some studies didn't find a negative effect of density or crowding and the results were mixed (Collette and Webb 1976). While it seems to be reasonable to assume that density and crowding are positively related, some studies do not find this to be the case (Webb 1975, Rodgers 1982). Crowding probably has become more common in recent years as cities are becoming less affordable. Misra (2015), Florida and Schneider (2018), Weinberg (2011), Solari (2019), Schuetz (2019), Kotkin (2013) For a nice discussion and overview of density, crowding and human behavior see Boots (1979), Choldin (1978).

the data used here. But the point is that treating urbanness as an urban-rural dichotomy (Glaeser 2011b, Burger et al. 2020) is an oversimplification without much theory to support it.

The biological/evolutionary perspective can be complemented by recent neurological evidence. Urban living is unhealthy to the human brain (Lederbogen et al. 2011) and urban living contributes to the development of psychosis (Abrahamyan Empson et al. 2020).

Utilitarianism and Happiness

The discipline of economics is largely driven by "axioms" (the self-evident truths) or "laws." One axiom is that the more money (income or consumption), the greater the utility (e.g., Autor 2010):

$$money = utility \approx happiness$$
 (1)

Utility, however, cannot be measured, thus, it is often operationalized as "happiness" in the discipline.⁸ Although, Easterlin (2015, 2010b) (and many others) found that over time, in the long run at country level, income is unrelated to happiness: the so called Easterlin Paradox, some researchers have argued to the contrary. Stevenson and Wolfers (2013), for example, challenged the Easterlin Paradox by claiming to have conflicting "evidence." Except, that they study something different—they examine a different unit of analysis (data at the household level, or across countries at one point in time), and log transform the data.

The effort to contravene the findings that cities tend to be less happy than smaller areas, is arguably due to economics axioms: money is centered in cities⁹, and therefore, cities have greater utility, so they must be happier.

Another case in point, is Glaeser (2011b) who examines only poor countries for his urbanicity–happiness analysis, and argues that the relationship holds in general. He basically argues that the positive relationship and the effect is "driven primarily by poorer countries"—but he makes an impression as if the overall relationship is positive for all countries and stronger for poorer countries. Empirical evidence however is incongruent: for most countries the relationship is negative and it is only positive in a few cases, typically in the very poorest countries. Concurrently, (Burger et al. 2020), who states, "In line with earlier research, we found that urban populations are, on average, happier than rural populations in that they return higher levels of happiness," builds his case by focusing on exceptional outliers, mostly poor African countries.

Similarly, Glaeser et al. (2016) analyses US counties, but retains only cities and drops all other areas. In additional, the analysis is saturated with many controls, and by adding state-fixed effects, which correlates with population size, the relationship flips from a negative to a positive correlation with urbanicity. In contrast, ? using the very same data finds a negative relationship by examining all areas. These studies have contributed to the notion that cities are happier than smaller places, yet, the overwhelming evidence points to the contrary (Gurin et al. 1960, Campbell et al. 1976, Berry and Okulicz-Kozaryn 2011, Okulicz-Kozaryn and Mazelis 2016, Senior 2006, Office for National Statistics 2011, Chatterji 2013, Morrison 2015, Lenzi and Perucca 2016, Morrison 2011, Okulicz-Kozaryn and Valente 2020).

What We Know So Far: The Literature

Most research on the urbanicity—happiness relationship points to an urban-rural happiness gradient, where happiness raises from its lowest level in largest cities, to the highest level in smallest rural areas (e.g., Campbell et al. 1976, Berry and Okulicz-Kozaryn 2011, Okulicz-Kozaryn and Mazelis 2016, Okulicz-Kozaryn and Valente 2020). [blind for peer review]

Yet, most research has been conducted in the US or Western Europe, and there are only three cross-country investigations using a common dataset: Berry and Okulicz-Kozaryn (2009), Easterlin et al. (2010a), Burger et al. (2020).

Easterlin et al. (2010a) focuses on the effect of economic growth by urban–rural and only a small part of the study is about urban–rural differences in SWB, and their results are similar to Berry and Okulicz-Kozaryn (2009), who found that in developed countries people are less happy in cities. All three studies, however, are limited. First, there is no urban–rural gradient in these studies—they all use binary operationalizations, urban v. rural (or three categories). Also, they mostly present simple mean differences for each country and aggregate results to groups of countries in regressions and fail to control for necessary predictors of SWB.

Most critically, there are multiple problems with the Gallup data used by Easterlin et al. (2010a), Burger et al. (2020). First, it is not meant for research but for commerce—Gallup charges \$30,000 for data access (per one year!). Second, the urbanicity classification is twofold less precise than in the World Value Survey (WVS), which we used in the present study: 4 versus 8 categories.

⁷Note that no other social science discipline has axioms, and for a good reason—they do not exist in the social world, and so they should not appear in social science. See Feynman (1981) and Davies (2018) for elaboration.

⁸Curiously, some economists who do happiness research are skeptical about it at the same time, and do not consider happiness worthy investigation (e.g., Deaton 2013, Glaeser et al. 2014, 2016).

⁹Production, productivity, income, and consumption increase with population size Glaeser (2011a, 2007), Glaeser et al. (2001), Rosenthal and Strange (2002, 2003, 2008).

 $^{^{10}}$ Easterlin et al. (2010a) acknowledge Gallup's limitations and attempts to address them. Burger et al. (2020), on the other hand, does not.

¹¹Gallup charges \$30,000 per year for the use of their happiness data (author's email inquiry)—private corporations are making a fortune from tax dollars and students tuition—scholars should resist corporatization of academia (Mills 2012a, Cox 2013, Mills 2012b, Catropa and Andrews 2020, Schmidlin 2015), and corporatization of happiness research (Davies 2015).

Third, while the WVS uses precise population size with numeric cutoffs, Gallup uses fuzzy concepts such as "rural area", "small town or village", "large city". Fourth, (and this compounds with the third problem), Gallup uses self-reports of urbanicity, which is highly subjective and problematic in this case—many, if not most people, would likely classify themselves completely arbitrarily into "rural area" versus "village" and so forth. The WVS uses interviewer's information about the place. Fifth, apparently much of the data are missing—Easterlin et al. (2010a) notes that in 14 countries "rural area" responses were exceptionally low. Also, about half of the world population is rural, but Burger et al. (2020) reports that in their dataset only about a quarter of respondents report rural residence.

Urbanness or urbanicity is a degree, not a dichotomy. 12

This study is the first to study the urban-rural happiness gradient across countries using a more robust and accurate dataset.

Data And Model

We use the www.worldvaluessurvey.org, which is representative of about 90% of the world population, ¹³ and as elaborated in the previous section, is much better suited for the study than an inadequate and poorly designed Gallup data. The variables are listed in table 1. Country codes and descriptive statistics are in SOM (Supplementary Online Material).

The SWB question reads, "All things considered, how satisfied are you with your life as a whole these days? Using this card on which 1 means you are "completely dissatisfied" and 10 means you are "completely satisfied" where would you put your satisfaction with your life as a whole?"

Urbanicity is operationalized with the WVS variable "X049"—note that it is objective and recorded by interviewer, not respondent. There are eight categories ranging from '< 2k' to '> 500k.' This is an important advantage, because as elaborated earlier, urbanicity or urbanness is a continuum, not a binary urban v rural dichotomy. We conduct the analysis using a set of dummy variables for all eight categories (leaving out the base case) in the SOM. However, for simplicity and ease of exposition we present simplified results in the body of the paper using three categories only. In other words, this study will use 8 categories of urbanicity, and summarize results for ease of presentation with 3 categories. Thus, please refer to the Supplemental Material for all the results of all categories.

Because in many countries, there are either no observations or few observations in the first two bottom categories -2k and 2-5k, we combined them together for the analyses in the main body of the paper. These two categories together proxy a city-free natural environment most closely resembling the natural human habitat where we have evolved, and it includes: wilderness, open country, and small villages. The other critical category that must be measured based on earlier review of theory is large cities, there is likely to be a threshold at several hundred thousand, hence we use the top category on the WVS variable "X049" which is '>500k' as a proxy of large cities. Such places, are the least resembling of the natural human habitat and are mostly consisting of man-made objects such as asphalt, concrete, glass, etc., and as per theory, are likely to be least happy. The third category in our main analyses are the places in between, 5-500k. The cutoffs for the two extremes are important and must be driven by theory, it cannot be, say, everything up to 100k versus everything more than 100k (or any other values) as in some of the other research. A place never changes abruptly from rural to urban at some cutoff, it is a continuum, it can be simplified to carefully chosen extreme categories, but one must always start with the continuum. And because this aggregation or simplification into 3 categories is still somewhat arbitrary, we present our alternative specifications in the supplemental material in addition to the full 8-step urbanness gradient.

Table 1 lists the control variables used in the body of the paper.

¹²Strikingly, Burger et al. (2020) argues that there is a uniform way to measure urbanicity, which is a mere 3 categories: 1) Cities, 2) Towns and semi-dense areas and 3) Rural areas; yet, uses a dichotomy in their study.

¹³While the WVS is conducted in about 100 countries that represent about 90% of the world population, due to missing data for the particular variables of interest, the present's study coverage is slightly smaller covering about 70 countries (depending on the model and specification).

Table 1: Variable definitions.

name	description
happiness	"All things considered, how satisfied are you with your life as a whole these days?" 1="dis-
	satisfied" to 10="satisfied"; WVS
place size	"OBSERVATIONS BY THE INTERVIEWER; Code size of town where interview was con-
•	ducted"
Year survey	year of survey
age	age
age2	age squared
male	male
married or living together as	married or living together as married
married	
divorced/separated/widowed	divorced/separated/widowed
education	"Highest educational level attained"
income	"Scale of incomes"
class	"Social class (subjective)"
health	"State of health (subjective)"
postmaterialist	"Post materialist index "
god important	"How important is God in your life? Please use this scale to indicate- 10 means very important
	and 1 means not at all important."
religion important	"WVS2000: For each of the following aspects, indicate how important it is in your life.
, and the second	Would you say it is: EVS1999: Please say, for each of the following, how important it is in
	your life. Religion"
autonomy	"Autonomy index"
freedom	"Some people feel they have completely free choice and control over their lives, while other
n ccuom	people feel that what they do has no real effect on what happens to them. Please use this
	, , , , , , , , , , , , , , , , , , , ,
	scale where 1 means 'none at all' and 10 means 'a great deal' to indicate how much freedom
	of choice and control you feel you have over the way your life turns out."
trust	"Most people can be trusted"

In the choice of controls we generally follow (Okulicz-Kozaryn and Valente 2020). There are specific controls worth discussing. Young, single and childless persons and young men with tertiary education are relatively more satisfied with urban areas as a place of residence (Carlsen and Leknes 2019). Income, class, and education are important controls—they not only predict greater SWB, but are also confounded and higher in cities.¹⁴

One great advantage of city living that is often forgotten is freedom, "City air makes men free (Stadt Luft macht frei)" Park et al. ([1925] 1984, p. 12)¹⁵, hence we control for freedom.

Likewise, trust is important, as it predicts SWB, and it is lower in cities (Milgram 1970).

Health is a key predictor of SWB, and the subjective health measure used here is a reasonable measure of actual health (Subramanian et al. 2009).

We use a standard OLS regression with robust standard errors. We treat the 10-step happiness variable as continuous. An ordinal happiness variable can be treated as a continuous variable (Ferrer-i-Carbonell and Frijters 2004). OLS has become the default method in happiness research (Blanchflower and Oswald 2011). Theoretically, while there is still debate about the cardinality of SWB, there are strong arguments to treat it as a cardinal variable (Ng 1996, 1997).

Results

There is a considerable tradeoff in this study between ease of presentation and elaboration as there are dozens of countries and presenting different specifications would result in unwieldy presentation—additional specifications are in SOM. Here we just present one model that is full including all necessary and some additional controls (yet, not over saturated where too many variables result in too many missing observations)—we use here models with controls listed in table 1 also the model presented here uses just 3 categories, <5k (base), 5k-500k, and 500k>. Results are set in table 39. We are interested in the comparison between <5 versus 500k> because this is according to theory: evolution/ingroup versus most unnatural environment (as this data allows).

¹⁴As shown later comparing unadjusted means results, research reporting that people are happier in cities (e.g. (Burger et al. 2020)) is notably due to the confounding of higher income education and class—see appendix for tables with and without controls.

¹⁵It originated in the Middle Ages, and it meant freedom from feudalism, non-feudal islands in a sea of feudalism (Harvey 2012).

	5-500k	500k-	N
ALB	-0.4*	0.4+	1,582
ARG	-0.2	-0.0	855
AUS	-0.0	-0.1	3,728
AZE	-0.1	0.3	964
BFA	0.3	0.0	567
BGD	0.0	0.7*	2,104
BGR	-0.0	-0.5*	1,229
BLR	-0.1	-0.1	2,815
BRA	-0.2	-0.4*	3,576
CAN	-0.1+	-0.3*	3,177
CHL	-0.7*	-0.7* -0.4*	3,527
CHN COL	0.0 0.0	-0.4** -0.1	2,005
DEU	-0.1	0.0	1,376 4,795
DZA	-0.1 -0.4*	-0.6	1,596
ECU	-0.9*	-0.0* -0.7*	1,182
EGY	-0.4*	-1.1*	3,428
ESP	-0.4	-0.1	1,487
ETH	0.3	0.4	1,017
GEO	0.1	0.1	2,401
GHA	0.3*	-0.0	2,572
HUN	0.0	-0.4*	887
IDN	0.1	-0.0	2.056
IND	-0.0	0.3*	5,857
IRN	-0.3*	-0.0	2,119
IRQ	-0.1	-0.0	1,123
ITÀ	-0.1	0.2	585
JOR	0.1	-0.2	2,089
KAZ	-0.0	-0.3*	1,497
KGZ	-0.1	-0.3*	2,293
LBN	0.1	0.2	731
LTU	0.3	0.3	750
LVA	-0.1	-0.6*	963
MAR	0.0 0.2*	-0.2	845
MDA MEX	-0.1	0.2 -0.2+	2,478 3,544
MKD	-0.1 -0.2	-0.2+ -0.1	1,385
MYS	0.1	-0.4*	1,541
NGA	-0.1	-0.1	4,488
NZL	-0.1	0.1	417
PAK	0.4+	0.3	900
PER	0.3*	-0.5	1,026
PHL	0.4	0.5	2,294
POL	-0.1	-0.1	1,533
ROU	-0.2*	0.3*	3,568
RUS	0.2*	0.2*	3,253
RWA	-0.7*	-0.4+	2,398
SRB	0.1	-0.4*	2,539
SVN	0.2+	-0.2	1,620
SWE	0.2	0.2	1,769
THA TUN	0.1 0.1	0.1	2,178 826
UKR	0.1	-0.1	2,985
URY	0.2	0.1	2,903
USA	-0.1	-0.2*	3,372
UZB	0.0	-0.3*	1,247
VEN	-1.7*	-1.2*	1,034
VNM	0.1	-1.5*	2,039
ZAF	0.2*	0.0	5,330
ZWE	0.1	0.2	1,487
* p<0.05,			•
+ p<0.1;			
robust std			
err			

Table 2: OLS regressions of SWB on place size for each country separately including year dummies (not shown).

The results in table 39 show that out of countries with significant happiness differences across urbanicity, in 80% of countries, people are less happy in cities than in smaller areas. The only exceptions are in the East European Post Soviet countries (ALB, ROU, RUS), and in South-Asian countries (BGD and IND). Notably, these are all poor or developing countries. In all developed countries, people are happier in smaller places than in large places. Without exception, we find that city dwellers are not happier than rural residents.

The conclusion is that in all developed countries studied here, AUS, CAN, DEU, ESP, ITA, NLD, 16 NZL, SWE, USA, the largest areas are less happy than smaller areas. 17

The urban-rural gradient is greatest in EGY, VEN,¹⁸ and VNM have effect sizes larger than one, while effect sizes for most other places are small to moderate, around .3–.5 (on the 1–10 SWB scale). Yet, as indicated earlier, because of the limited cross-cultural comparability of the SWB measure, when interpreting our results, the focus should be on within–country SWB differences across urbanicity, and not on comparing cross–country effect sizes.

It is worth noting that in the first column, the majority of the results are negative with only 5 countries yielding a positive result: GHA, MDA, PER, RUS, and ZAF—again, what is remarkable is that none of these countries are considered "developed."

¹⁶results only in appendix for NLD

¹⁷At least in less elaborate specifications shown in the appendix, but even in the most elaborate specifications, even when the coefficient on larger places is insignificant, it is still negative.

¹⁸Note: result for VEN should be interpreted with caution this is the main difference with table ?? and probably has to do with the fact that there are only 60 obs on the base case category. Other results are similar between the two tables.

Conclusion And Discussion

Throughout most of our evolutionary history, humans have lived in small homogeneous groups with low density. As hunters gatherers, humans lived in small bands of 50 to 80 people, later on in simple horticultural society in groups of 100 to 150 people, and in more advanced society these groups reached five to six thousand people (Maryanski and Turner 1992). Hence, unlike other species living in heterogeneous, dense, and large settlements (city living) is simply unnatural to human beings. It is not city problems, such as crime and poverty, but the city itself and their core characteristics that results in lower wellbeing (Okulicz-Kozaryn and Mazelis 2016)—the mechanism is important to understand; how and why would urbanness affect human wellbeing? As discussed throughout, contrary to economics, classic urban sociological theory, biological/evolutionary mechanism, and neurological evidence point to lower human wellbeing in cities.

In the vast majority of countries the results show a negative effect, only positive in these countries: East European Post Soviet ALB, ROU, RUS, and South-Asian BGD and IND. East European Post Soviet countries are still quite centralized where power, opportunity, and resources are located in the large cities. India and Bangladesh are curious outliers. [blind for peer-review] Also note that in about a third or even half of the countries (depending on the model), there is no SWB difference across urbanicity. This is also a finding worth reporting as it runs counter to common pro-urbanism and city triumphalism (e.g., Glaeser 2011b). One would think that cities are the best places to live as people flock there in doves. Thus, findings showing no difference for many cases is already surprising.

Even as coefficient estimates are small to moderate, the practical significance of the results is very strong because of the sheer size of urbanization. Say, even a minuscule negative effect of .1 (on a scale 1-10) on a larger place versus a smaller place for a small country of 10 million translates into an effect equivalent to making 100 thousand people from the most miserable to the most happy on the SWB scale 1-10 if everyone lived in smaller versus larger place. Globally, for billions of people living in cities, there is a massive amount of human misery produced.

Why are people less happy in large cities in the developed world, yet happier in some developing countries? There is at least one reason. In many developing countries, life is simply unbearable outside of the city lacking necessities such as shelter, foot, water, sanitation, and healthcare. In the developed countries, even the smallest places have reasonable access to necessities, and they do not suffer from urban disamenities.

As per Maslow's pyramid of needs (Maslow [1954] 1987), survival and opportunity come first, and this arguably can explain much of the paradox found in this paper—despite the city being biologically, neurologically, and socially negative for humans, cities can be helpful for human wellbeing at an early stage of a country's development.

It is important to underscore an alarming trend in higher education, and in research in general, which is the corporatization of higher education and research (Mills 2012a, Cox 2013, Mills 2012b, Catropa and Andrews 2020, Schmidlin 2015). This includes happiness research (Davies 2015). 'The 'World Happiness Report" (Helliwell et al. 2020) and its chapter about the urban–rural gap in happiness (Burger et al. 2020) uses data from a private corporation. Indeed, the report is largely an advertisement for Gallup. Gallup then sells the happiness data at \$30,000 (per year!)¹⁹—arguably this is not meant for research (most researchers cannot afford it). The goal is incongruous with what research is meant to do, which is to produce unbiased knowledge. Instead, the objective is to make money—after all, the sole responsibility of a business is to profit (Friedman 1970).

1 Takeaway for Practice

Humans are worse off in cities (in terms of happiness), but sometimes what makes us happy is not the right thing to do (Linden 2011, Haybron 2008, Nussbaum 2005). Notably, climate change is more important than human happiness, and cities are the most environmentally friendly type of settlement (Meyer 2013). Also, there are some limited things that can be done to make cities less miserable—we know what makes a city a happy place of residence (Ballas 2013).

Perhaps the clearest takeaway for practice is that we suffer from overpopulation. It could be argued that we only need cities because of overpopulation and climate change (Pachauri et al. 2014), and not because of production, or productivity, or consumption premium, of cities. In fact, consumption is superabundant in the US, and we need less consumption (Dittmar et al. 2014, Kasser 2003, Leonard 2010). In fact, we arguably also need less production and less economic growth (Kallis et al. 2012, Kallis 2011, Van den Bergh 2011). While cities are the most environmentally friendly way to squeeze human overpopulation to deal better with climate change, cities directly cause climate change by being centers of production and consumption that drives climate change—it's a vicious cycle.

Concurrently, we would need cities less if we had fewer people (e.g. contraception, family planning, sterilization). It is only when there are fewer people, that we can have a meaningful discussion about the right city size as we used to have a couple decades ago [blind for peer review] 20

¹⁹Authors' inquiry with Gallup to use their data.

²⁰It is actually remarkable that there is no discussion about this. How could we have gone so wrong to think that the bigger the better and that there is no limit—cities are ballooning—Tokyo has about 40 million people, and there are many cities with 20 million residents; In comparison, the greatest and largest cities of antiquity, the Ancient Athens had 140 thousand people and Rome had a population of 450 thousand.

References

- (2017): "Built environment and social well-being: How does urban form affect social life and personal relationships?" Cities.
- ABRAHAMYAN EMPSON, L., P. S. BAUMANN, O. SÖDERSTRÖM, Z. CODELUPPI, D. SÖDERSTRÖM, AND P. CONUS (2020): "Urbanicity: The need for new avenues to explore the link between urban living and psychosis," *Early intervention in psychiatry*, 14, 398–409.
- AUTOR, D. (2010): "Lecture 3: Axioms of Consumer Preference and the Theory of Choice," MIT Open Course Ware.
- BALLAS, D. (2013): "What makes a 'happy city'?" Cities, 32, S39–S50.
- BERRY, B. J. AND A. OKULICZ-KOZARYN (2011): "An Urban-Rural Happiness Gradient," Urban Geography, 32, 871-883.
- BERRY, B. J. L. AND A. OKULICZ-KOZARYN (2009): "Dissatisfaction with City Life: A New Look at Some Old Questions," *Cities*, 26, 117–124.
- BETTENCOURT, L. AND G. WEST (2010): "A unified theory of urban living," Nature, 467, 912-913.
- BETTENCOURT, L. M., J. LOBO, D. HELBING, C. KÜHNERT, AND G. B. WEST (2007): "Growth, innovation, scaling, and the pace of life in cities," *Proceedings of the National Academy of Sciences*, 104, 7301–7306.
- BETTENCOURT, L. M., J. LOBO, D. STRUMSKY, AND G. B. WEST (2010): "Urban scaling and its deviations: Revealing the structure of wealth, innovation and crime across cities," *PloS one*, 5, e13541.
- BLANCHFLOWER, D. G. AND A. J. OSWALD (2011): "International happiness: A new view on the measure of performance," *The Academy of Management Perspectives*, 25, 6–22.
- BLISS, L. (2014): "Moving Toward an Evolutionary Theory of Cities," .
- BOOTS, B. (1979): "Population density, crowding and human behaviour," Progress in Geography, 3, 13-63.
- BURGER, M. J., P. S. MORRISON, M. HENDRIKS, AND M. M. HOOGERBRUGGE (2020): "Urban-Rural Happiness Differentials across the World," World Happiness Report.
- CAMPBELL, A., P. E. CONVERSE, AND W. L. RODGERS (1976): The quality of American life: perceptions, evaluations, and satisfactions, Russell Sage Foundation, New York NY.
- CARLSEN, F. AND S. LEKNES (2019): "The paradox of the unhappy, growing city: reconciling evidence?" Unpublished.
- CASSEL, J. (2017): "Health consequences of population density and crowding," in People and buildings, Routledge, 249–270.
- CATROPA, D. AND M. ANDREWS (2020): "Bemoaning the Corporatization of Higher Education," insidehighered.com.
- CHATTERJI, A. (2013): "London is the Unhappiest Place to Live in Britain," *International Business Times*.
- CHEN, J., D. S. DAVIS, K. WU, AND H. DAI (2015): "Life satisfaction in urbanizing China: The effect of city size and pathways to urban residency," *Cities*, 49, 88–97.
- CHOLDIN, H. M. (1978): "Urban density and pathology," Annual Review of Sociology, 4, 91–113.
- COLLETTE, J. AND S. D. WEBB (1976): "Urban density, household crowding and stress reactions," *The Australian and New Zealand Journal of Sociology*, 12, 184–191.
- Cox, R. W. (2013): "The corporatization of higher education," Class, race and corporate power, 1, 8.
- Davies, W. (2015): The Happiness Industry: How the Government and Big Business Sold us Well-Being, Verso Books.
- ——— (2018): Economic Science Fictions, MIT Press.
- DAVIS, K. (1955): "The origin and growth of urbanization in the world," American Journal of Sociology, 429–437.
- DEATON, A. (2013): "Subjective Well-Being and Policy: Interview With Angus Deaton, Princeton University," YouTube, https://www.youtube.com/watch?v=tz3D-36RuLo.
- DIENER, E. (2009): Well-being for public policy, Oxford University Press, New York NY.

- DITTMAR, H., R. BOND, M. HURST, AND T. KASSER (2014): "The relationship between materialism and personal well-being: A meta-analysis." *Journal of personality and social psychology*, 107, 879.
- EASTERLIN, R. (2015): "Keynote," 2015 ISQOLS.
- EASTERLIN, R. A., L. ANGELESCU, AND J. ZWEIG (2010a): "The Impact of Modern Economic Growth On Urban-Rural Differences in Subjective Well-Being," WEAI Conference, Portland, OR, June 29 July 3.
- EASTERLIN, R. A., L. A. McVey, M. Switek, O. Sawangfa, and J. S. Zweig (2010b): "The happiness-income paradox revisited," *Proceedings of the National Academy of Sciences*, 107, 22463–22468.
- FERRER-I-CARBONELL, A. AND P. FRIJTERS (2004): "How Important is Methodology for the Estimates of the Determinants of Happiness?" *Economic Journal*, 114, 641–659.
- FEYNMAN, R. (1981): "Richard Feynman on Pseudoscience and Uncertainty," The BBC Horizon The Pleasure of Finding Things Out Video Interview.
- FISCHER, C. S. (1972): "Urbanism as a Way of Life (A Review and an Agenda)," Sociological Methods and Research, 1, 187–242.
- ——— (1973): "Urban malaise," Social Forces, 52, 221–235.
- ——— (1975): "Toward a subcultural theory of urbanism," American Journal of Sociology, 80, 1319–1341.
- ——— (1995): "The subcultural theory of urbanism: A twentieth-year assessment," American Journal of Sociology, 543–577.
- FLORIDA, R. (2008): Who's your city?, Basic Books, New York NY.
- FLORIDA, R. AND B. SCHNEIDER (2018): "The Global Housing Crisis. Scarce, unaffordable housing is not a local problem in a few places, but is baked into the 21st-century global city. It's time for cities, nations, and global leaders to start acting like it." City Lab.
- FRIEDMAN, M. (1970): "The social responsibility of business is to increase its profits," The New York Times Magazine.
- GLAESER, E. (2011a): "Cities, productivity, and quality of life," Science, 333, 592-594.
- ——— (2011b): Triumph of the City: How Our Greatest Invention Makes Us Richer, Smarter, Greener, Healthier, and Happier, Penguin Press, New York NY.
- GLAESER, E., J. GOTTLIEB, AND O. ZIV (2014): "Maximising happiness does not maximise welfare," Vox.
- GLAESER, E. L. (2007): "The economics approach to cities," Tech. rep., Harvard.
- GLAESER, E. L., J. D. GOTTLIEB, AND O. ZIV (2016): "Unhappy Cities," Journal of Labor Economics, 34, S129-S182.
- GLAESER, E. L., J. KOLKO, AND A. SAIZ (2001): "Consumer city," Journal of economic geography, 1, 27-50.
- GURIN, G., J. VEROFF, AND S. FELD (1960): Americans view their mental health: A nationwide interview survey., Basic Books, New York NY.
- HANSON, V. D. (2015): "The Oldest Divide. With roots dating back to our Founding, America's urban-rural split is wider than ever." *City Journal*, Autumn 2015.
- HARVEY, D. (2012): Rebel cities: From the right to the city to the urban revolution, Verso Books.
- HAYBRON, D. (2008): "Happiness, Well-Being, and the Good Life: A Primer (ch. 2)," *The Pursuit of Unhappiness. The Elusive Psychology of Well-Being*, 29–42.
- Helliwell, J., R. Layard, J. Sachs, and J. De Neve (2020): "World happiness report 2020," New York: Sustainable Development Solutions Network. Saatavilla https://happiness-report. s3. amazonaws. com/2020/WHR20. pdf.
- INGLEHART, R. (1997): Modernization and postmodernization: Cultural, economic, and political change in 43 societies, Princeton Univ Pr, Princeton NJ.
- KAHNEMAN, D., E. DIENER, AND N. SCHWARZ (1999): Well-being: Foundations of hedonic psychology, Russell Sage Foundation.
- Kallis, G. (2011): "In defence of degrowth," *Ecological Economics*, 70, 873–880.
- KALLIS, G., C. KERSCHNER, AND J. MARTINEZ-ALIER (2012): "The economics of degrowth," Ecological Economics, 84, 172–180.

- KASSER, T. (2003): The high price of materialism, MIT press.
- KOTKIN, J. (2013): "Richard Florida concedes the limits of the creative class." The Dailybeast.
- LEDERBOGEN, F., P. KIRSCH, L. HADDAD, F. STREIT, H. TOST, P. SCHUCH, S. WUST, J. C. PRUESSNER, M. RIETSCHEL, M. DEUSCHLE, AND A. MEYER-LINDENBERG (2011): "City living and urban upbringing affect neural social stress processing in humans," *Nature*, 474.
- LENZI, C. AND G. PERUCCA (2016): "The Easterlin paradox and the urban-rural divide in life satisfaction: Evidence from Romania," Unpublished; http://www.grupposervizioambiente.it.
- LEONARD, A. (2010): The story of stuff: How our obsession with stuff is trashing the planet, our communities, and our health-and a vision for change, Simon and Schuster.
- LEVY, L. AND A. N. HERZOG (1974): "Effects of population density and crowding on health and social adaptation in the Netherlands," *Journal of Health and Social Behavior*, 228–240.
- LINDEN, D. (2011): The Compass of Pleasure: How Our Brains Make Fatty Foods, Orgasm, Exercise, Marijuana, Generosity, Vodka, Learning, and Gambling Feel So Good, Viking Press.
- MA, J., G. DONG, Y. CHEN, AND W. ZHANG (2017): "Does satisfactory neighbourhood environment lead to a satisfying life? An investigation of the association between neighbourhood environment and life satisfaction in Beijing," *Cities*.
- MARYANSKI, A. AND J. H. TURNER (1992): The social cage: Human nature and the evolution of society, Stanford University Press.
- MASLOW, A. ([1954] 1987): Motivation and personality, Longman, 3 ed.
- MEYER, W. B. (2013): The Environmental Advantages of Cities: Countering Commonsense Antiurbanism, MIT Press, Cambridge MA.
- MILGRAM, S. (1970): "The experience of living in cities," Science, 167, 1461-1468.
- MILLS, N. (2012a): "The corporatization of higher education," *Dissent*, 59, 6–9.
- ——— (2012b): "The Corporatization of Higher Education." dissentmagazine.org.
- MISRA, T. (2015): "New York City Apartments Are Getting Even More Crowded," City Lab.
- MOEINADDINI, M., Z. ASADI-SHEKARI, M. AGHAABBASI, I. SAADI, M. Z. SHAH, AND M. COOLS (2020): "Applying non-parametric models to explore urban life satisfaction in European cities," *Cities*, 105, 102851.
- MORRISON, P. (2015): "Capturing effects of cities on subjective wellbeing," European Regional Science Association Conference, Lisbon.
- MORRISON, P. S. (2011): "Local expressions of subjective well-being: The New Zealand experience," Regional studies, 45, 1039–1058.
- MOURATIDIS, K. (2019): "Compact city, urban sprawl, and subjective well-being," Cities, 92, 261–272.
- NG, Y.-K. (1996): "Happiness surveys: Some comparability issues and an exploratory survey based on just perceivable increments," *Social Indicators Research*, 38, 1–27.
- ——— (1997): "A case for happiness, cardinalism, and interpersonal comparability," The Economic Journal, 107, 1848–1858.
- NUSSBAUM, M. C. (2005): "Mill between Aristotle and Bentham," in *Economics and Happiness*, ed. by L. Bruni and P. L. Porta, Oxford University Press, New York NY, 170–184.
- OFFICE FOR NATIONAL STATISTICS (2011): "Analysis of Experimental Subjective Well-being Data from the Annual Population Survey," The National Archives.
- OKULICZ-KOZARYN, A. AND J. M. MAZELIS (2016): "Urbanism and Happiness: A Test of Wirth's Theory on Urban Life," *Urban Studies*.
- OKULICZ-KOZARYN, A. AND R. VALENTE (2020): "The perennial dissatisfaction of urban upbringing," Cities.
- OKULICZ-KOZARYN, A. AND R. R. VALENTE (2019): "Livability and subjective well-being across European cities," *Applied Research in Quality of Life*, 14, 197–220.

- PACHAURI, R. K., M. ALLEN, V. BARROS, J. BROOME, W. CRAMER, R. CHRIST, J. CHURCH, L. CLARKE, Q. DAHE, P. DASGUPTA, ET AL. (2014): Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, IPCC.
- PARK, R. E. (1915): "The city: Suggestions for the investigation of human behavior in the city environment," *The American Journal of Sociology*, 20, 577–612.
- PARK, R. E., E. W. BURGESS, AND R. D. MAC KENZIE ([1925] 1984): The city, University of Chicago Press, Chicago IL.
- RODGERS, W. L. (1982): "Density, crowding, and satisfaction with the residential environment," *Social Indicators Research*, 10, 75–102.
- ROSENTHAL, S. S. AND W. C. STRANGE (2002): "The urban rat race," Syracuse University Working.
- ——— (2003): "Agglomeration, Labor Supply, and the Urban Rat Race," Center for Policy Research Working Paper.
- ——— (2008): "Agglomeration and hours worked," *The Review of Economics and Statistics*, 90, 105–118.
- SCHMIDLIN, K. (2015): "The corporatization of higher education: With a system that caters to the 1 percent, students and faculty get screwed. Low-paid teachers are fighting back against exploitation in public & private colleges. No more poverty wages," salon.com.
- Schuetz, J. (2019): "Cost, crowding, or commuting? Housing stress on the middle class," Brookings.
- SENIOR, J. (2006): "Some Dark Thoughts on Happiness," New York Magazine.
- SIMMEL, G. (1903): "The metropolis and mental life," The Urban Sociology Reader, 23–31.
- Solari, C. D. (2019): "America's Housing Is Getting More Crowded. How Will That Affect Children?" Urban Institute.
- STEVENSON, B. AND J. WOLFERS (2013): "Subjective well-being and income: Is there any evidence of satiation?" *The American Economic Review*, 103, 598–604.
- STIGLITZ, J., A. SEN, AND J. FITOUSSI (2009): "Report by the Commission on the measurement of economic performance and social progress," *Available at www.stiglitz-sen-fitoussi.fr.*
- SUBRAMANIAN, S., M. A. SUBRAMANYAM, S. SELVARAJ, AND I. KAWACHI (2009): "Are self-reports of health and morbidities in developing countries misleading? Evidence from India," *Social science & medicine*, 68, 260–265.
- TÖNNIES, F. ([1887] 2002): Community and society, DoverPublications.com, Mineola NY.
- VALENTE, R. AND B. J. BERRY (2016): "Dissatisfaction with city life? Latin America revisited," Cities, 50, 62-67.
- VAN DEN BERGH, J. C. (2011): "Environment versus growth–A Criticism of "degrowth" and a plea for "a-growth"," *Ecological Economics*, 70, 881–890.
- WANG, D., T. SCHWANEN, AND Z. MAO (2019): "Does exposure to richer and poorer neighborhoods influence wellbeing?" *Cities*, 95. 102408.
- Webb, S. D. (1975): "The meaning, measurement and interchangeability of density and crowding indices," *The Australian and New Zealand Journal of Sociology*, 11, 60–62.
- WEINBERG, N. (2011): "How Can Cities be Preemptive and Effective in Preventing Overcrowding?" Datasmart-Harvard.
- WHITE, M. G. AND L. WHITE (1977): The intellectual versus the city: from Thomas Jefferson to Frank Lloyd Wright, Oxford University Press, Oxford UK.
- WIRTH, L. (1938): "Urbanism as a Way of Life," American Journal of Sociology, 44, 1-24.
- WKEZIAK-BIALOWOLSKA, D. (2016): "Quality of life in cities–Empirical evidence in comparative European perspective," *Cities*, 58, 87–96.

2 SOM: ONLINE APPENDIX (THIS WILL NOT BE A PART OF THE PAPER

2.1 Country Codes

Note that for ease of presentation numbers were rounded to full digits.

Table 3: .

сс	S C	ls .	town	2.400
1 2 3	ALB ARG	Albania	5 7.300	3.400 6.900
3	AUS	Argentina Australia	7.500	5.900
4	AZE	Azerbaijan	5.800	4.500
4 5 6	BFA	BurkinaFaso	5.600	4.500
6	BGD	Bangladesh	6.500	3.300
7	BGR	Bulgaria	4.900	4.400
8	BLR	Belarus	5.100	5.100
9 10	BOL	Bolivia	7.500	5.400
11	BRA CAN	Brazil Canada	7.500 7.800	6.400 4.500
12	CHL	Chile	7.200	7
13	CHN	China	7	6.200
14	COL	Colombia	8.300	6.400
15	DEU	Germany	7.200	4.700
16 17	DZA ECU	Algeria	6 7.900	5.100 6.200
18	EGY	Ecuador Egypt	5.500	4.800
19	ESP	Spain	7	5.300
20	ĒTH	Ethiopia	5.300	5.400
21	FRA	France	6.900	5
22	GEO	Georgia	5	4.300
23 24	GHA GRC	Ghana	6.300	3.400
24 25	GTM	Greece Guatemala	6.200 7.700	5.100 5.800
26	HRV	Croatia	6.200	4
27	HUN	Hungary	6.400	4.800
28	IDN	Indonesia	7.300	4.100
29	IND	India	6.200	3.700
30	IRN	Iran	6.400	5.700
31 32	IRQ ITA	Iraq Italy	4.900 6.900	5.900 4.500
33	JOR	Jordan	6.600	4.800
34	KAZ	Kazakhstan	7.100	5.100
35	KGZ	Kyrgyzstan	7.300	3.600
36	KWT	Kuwait	7.200	6.200
37	LBN	Lebanon	6.600	4.600
38 39	LTU LVA	Lithuania Latvia	5 4.900	4.500 4.700
40	MAR	Morocco	5.700	5.600
41	MDA	Moldova	4.600	3.400
42	MEX	Mexico	8	5.200
43	MKD	NorthMacedonia	5.400	4.300
44	MYS	Malaysia	7	4.600
45 46	NGA NLD	Nigeria Netherlands	6.400 7.600	5.400 5.800
47 47	NOR	Norway	7.800	4.100
48	NZL	NewZealand	7.700	4.900
49	PAK	Pakistan	6.600	4.900
50	PER	Peru	6.900	5
51 52	PHL POL	Philippines	7 6.800	5.400
53	ROU	Poland Romania	6.100	4.100 4.300
54	RUS	Russia	5.700	5.400
55	RWA	Rwanda	5.700	5.800
56	SRB	Serbia	5.900	4.600
57	SVN	Slovenia	7	2.700
58 59	SWE THA	Sweden Thailand	7.700 7.100	6.200 2.100
60	TJK	Tajikistan	7.900	3.100
61	TUN	Tunisia	5.600	3.900
62	TÜR	Turkey	6.500	6.400
63	UKR	Ukraine	4.900	4.700
64	URY	Uruguay	7.400	6.100
65 66	USA UZB	UnitedStates	7.500	5.400 3.300
66 67	VEN	Uzbekistan Venezuela	7.900 7.100	6.500
68	VNM	Vietnam	7.200	4.400
69	ZAF	SouthAfrica	6.600	3
70	ZWE	Zimbabwe	5.100	3.900
* = <0.05 = <0.1 = = = = = = = = = = = = = = = = = =				
* p<0.05, + p<0.1; robust std err	bla 4. I	a.t		

Table 4: Ictry

these were dropped as data were missing on major categories if there less than 30 obs on both collectively 2 smallest categories or on top category: enumerate here: **TODO**

note for ease of presentation numbers rounded to full digits TODO discuss in depth interesting differences lol

Table 5: .

СС	T 1 ALB	T.2	T 3	T 4	T 5	T 6	T 7	T 8	
1 2 3	ALB	743	235	198	74	187	195	201	134
2	ARG	261	120	80	140	142	160	254	2880
4	AUS	404 164	420 232	440 65	469 46	698 61	621 82	779 80	2681 272
4 F	AZE DEA	60	124	271	331	342	02 128	30	
5 6	BCD	437	1498	781	371	397	223	289	169 156
7	AZE BFA BGD BGR BLR	500	246	103	133	178	247	348	318
8	BLR	917	111	61	252	251	160	1063	812
9	BOI	423	30	101	71	254	109	378	701
10	BOL BRA CAN	72	301	340	539	835	852	1740	701 2814
11	CAN	1321	490	537	372	410	762	693	1145
12	CHL	141	43	9	23	110	702	3466	2206
13	CHN	237	274	126	373	1812	1999	2139	2568
14	COL	16	48	225	358	1053	910	1476	1940
15	DEU	784	825	645	1279	1373	601	1147	996
16 17	DEU DZA ECU	190 50	7	364	278 144	456	544	549	92
18	ECV	119	132 362	127 1464	1143	179 1149	301 504	916 313	553 1072
19	ESP	307	328	365	451	433	362	946	729
20	EGY ESP ETH	98	108	360	291	207	691	904	71
21	FRA	246	82	39	48	47	85	67	387
22	FRA GEO	742	442	138	151	189	49	309	682
23	GHA	159	1541	238	242	374	139	156	237
24	GRC GTM HRV HUN	290	30	50	50	150	140	50	440
25	GTM	263	121	92	77	321	151	201	977 215
26	HKV	375	181	4	141	8	104	127	215
27 28	HON	153 801	320 1204	73	189 796	216	171 211	223 304	312 1203 1238
29	IDN IND	2965	2368	1270 1421	1234	426 987	834	1171	1203
30	IRN	439	384	295	140	261	176	542	1737
31	IDO	84	467	73	182	184	85	449	1117
32	ITA	70	148	135	176	131	124	100	128
33	JOR	310	489	459	356	676	286	299	754
34	KAZ KGZ	293	449	173	225	193	95	702	646
35	KGZ	983	958	373	194	168	141	231	695
36	KWT LBN LTU	114	61	19	70	23	6	297	462
37	LBIN	80	265	336	336	529	275	153	191
38 39	LIU	324 373	12 24	48 57	114	66 101	30 108	252 57	163
40	LVA MAR	373 44	2 4 270	292	81 474	101	51	293	399 921
41	MDA	700	906	370	202	214	20	261	365
42	MDA MEX MKD MYS	1196	1129	749	653	697	566	1686	2764
43	MKD	475	253	163	60	326	343	48	382
44	MYS	300	503	269	282	314	276	735	241
45	NGA	318	804	669	658	1044	1123	1774	1428
46	NZL	308	0	270	182	152	190	516	187
47	PAK	529	1124	566	251	62	10	251	1935
48 49	PHI	590 350	137 295	60 210	108 105	175 590	339 430	1070 1000	131 620
50	NGA NZL PAK PER PHL POL ROU RUS RWA SRB SVN	1097	173	111	168	318	277	629	343
51	ROU	819	1203	568	411	487	482	1326	468
52	RUS	1166	600	541	417	784	461	1810	2532
53	RWA	15	76	92	128	419	1620	634	50
54	SRB	691 1520	508	580	316	606	758	544	732
55	SVN	1520	475	240	149	226	78	278	118
56	SWE	123	56	91	166	377	545	762	766
57 58	THA TJK	2450 360	613 370	389 80	164	190 90	93 90	45 30	153 110
58 59	TUN	73	468	669	70 429	90 251	90 252	191	80
60	TUR	73 96	468 12	84	429 48	264	232	1273	408
61	UKR	962	527	178	327	294	305	806	912
62	HRY	99	129	118	229	493	328	1	1336
63	ÜSA	410	352	357	636	960	746	972	1168
64	UZB	500	440	40	40	60	20	260	140
65	USA UZB VEN	20	40	172	192	242	242	484	1008
66	VNM	63	708	736	784	190	94	966	154
67	ZAF	3912	218	194	258	269	238	390	987
68	ZWE	470	687	317	86	183	422	323	227

* p<0.05, + p<0.1; robust std err **Table 6:** Icount

3 descriptive stats

like in eb paper maybe also like min and max and everything in app but order somehow anyway but yeah can see diff in mean across categories from bivariate but still median and sd by cat would be useful!

3.1 Limitations

We do not use the Gallup data. Some may argue it is a limitation because these data cover more countries than the WVS. However, apparently Gallup data cost tens of thousands of dollars and we cannot afford it. In fact, we'd discourage scientists from paying from tax money to private corporations to do research. Therefore, we actually consider it an advantage not to use the Gallup data.

Many world countries are missing, using more WVS data in the future as they become available would contribute significantly.

A limitation is that many countries were not included as a result of not having many people in the smallest or in the biggest areas. Cross cultural comparability is a caveat, we run separate analysis for each country and don't pool the data together, but still, it should be kept in mind that happiness can mean something different in different countries. Similarly, cities around the world are very different, the breadth of the study is accompanied by oversimplification. Research in this area claims that "that urban-rural differentials might be country-specific and not be generalisable at all

Reiteratively, we would like to have more gradation at the top of the distribution, but 500 thousand is a reasonable and adequate cutoff to distinguish a large city from other places. Unfortunately, there are no other data better suited for this purpose and we do best we can with what's available. The results are conservative—if we had a cutoff at 750 thousand or 1 million, they'd be stronger. MY BOOK AND CITIES WHEN CITY IS TOOO BIG.

Cities in Developing Countries

Cities can be actually be useful for human wellbeing at the early stage of a country's development. The graphs below elaborate the Maslow's pyramid mentioned in the body of the paper. At first, one needs to focus on necessities such as survival and cities do help, which could explain why people in developing countries are happier there; Yet, it is remarkable that in all developed countries studied here, cities are less happy!



Figure 1: Place Pyramid, (Florida 2008, p 294).

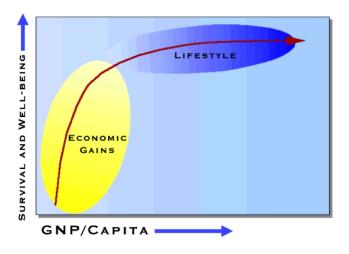


Figure 2: Well-being and income, (Inglehart 1997).

Urbanicity Definition and Operationalization

we have 3 different operationalizations of urbanicity: the original 8 categories, collapse one way and collapse the other way; and 3 sets of models: bivariate (with yr dummies), esentially mean diff betwenn cat; basic set of controls; necessary/important ones; full//extened (one in the body); and there is 4th one over saturated but has most missing obs and hence postponed to the next section.

where i dicuss controls in data and to literature where i slam burger and indeed as shown later comparing unadjusted means results in cities being happier notably due to confounding of higher income education and class

Table 7:

	•	able 7: .			
	-10	10-50k	50-500k	500k-	N
ALB	0.0	0.1	0.2*	0.4*	1960
ARG	0.0	0.2+	-0.0	-0.1	4010
NUS	0.0	-0.0	-0.0	-0.0	6466
AZE	0.0	-0.2	-0.3	0.4*	1002
BFA	0.0	-0.3*	0.6*	-0.0	1421
BGD	0.0	-0.2*	0.4*	1.5*	4106
BGR	0.0	0.6*	0.7*	0.8*	2014
BLR	0.0	0.5*	0.4*	0.5*	3603
3OL	0.0	-0.1	-0.0	0.1	2058
BRA	0.0	-0.0	-0.3*	-0.3*	7462
CAN	0.0	-0.1	-0.1*	-0.5*	5720
CAN CHL	0.0	0.3	-0.2	-0.2	6657
CHN COL	0.0	0.2	0.4*	0.2+	9407
COL	0.0	-0.0	-0.0	-0.1	6025
DEU	0.0	-0.1*	0.0	-0.0	7625
DZA	0.0	0.3+	0.1	0.4	2433
CU	0.0	-0.2	-0.1	0.0	2400
GY	0.0	-0.2+	-0.1	-0.5*	6120
ESP	0.0	-0.0	-0.1	-0.2+	3898
TH	0.0	-0.5*	0.1	0.1	2719
RA	0.0	0.0	0.3+	0.1	1000
GEO	0.0	0.0	0.5*	0.5*	2676
GHA	0.0	0.7*	0.7*	0.5*	3080
GRC	0.0	0.0	0.2	-0.4*	1200
GTM	0.0	0.6*	0.8*	0.3*	2202
HRV	0.0	0.1	-0.1	0.3	1152
HUN	0.0	0.0	0.1	0.1	1649
DN	0.0	0.2*	0.4*	0.3*	6092
ND	0.0	0.6*	0.1+	0.5*	11971
RN	0.0	0.0	-0.3*	0.0	
	0.0			0.0	3973
RQ TA	0.0	0.1 -0.0	-0.1 -0.1	0.2+	2631 1006
		0.2*		0.1	
JOR	0.0		-0.0		3622
KAZ	0.0	0.1	0.1	-0.0	2761
KGZ	0.0	-0.2	0.2	-0.7*	3731
KWT	0.0	-0.6*	0.4+	0.1	1034
LBN	0.0	0.0	-0.1	-0.1	2159
_TU	0.0	0.5+	0.6*	0.6*	996
_VA	0.0	-0.0	-0.2	-0.4*	1190
MAR	0.0	0.2 +	0.7*	0.2	2442
MDA	0.0	0.3*	0.9*	0.7*	3000
MEX	0.0	0.1	0.0	-0.0	9329
MKD	0.0	-0.1	0.2	0.4*	2031
MYS	0.0	0.1	0.0	-0.1	2919
NGA	0.0	-0.0	0.1	0.5*	7807
NZL	0.0	-0.1	-0.2+	0.1	1770
PAK	0.0	0.6*	0.1	0.4*	3677
PER	0.0	0.3+	0.6*	0.5*	2602
PHL	0.0	0.6*	0.4+	0.7*	3600
POL	0.0	0.1	0.2*	0.0	3093
ROU	0.0	0.1	0.4*	0.4*	5618
RUS	0.0	0.2*	0.1	0.4*	8187
RWA	0.0	-0.0	-0.2	-0.3	3030
SRB	0.0	0.2*	0.4*	0.2+	4654
SVN	0.0	0.3*	0.4*	0.1	3065
SWE	0.0	0.2	0.4*	0.1	2882
ГНА	0.0	0.2	-0.1	-0.7*	4086
ΓJK	0.0	-0.1	-0.2	-0.1	1200
TUN	0.0	0.1	0.0	-0.8*	2405
TUR	0.0	0.7*	0.9*	1.0*	2405
JKR	0.0	0.2+	0.0	0.0	4169
JRY	0.0	0.1	-0.0	0.1	2717
JSA	0.0	-0.0	-0.2*	-0.3*	5586
JZB	0.0	-0.2	-0.2+	-0.4*	1493
√EN	0.0	-0.2	-0.2	0.1	2385
/NM	0.0	0.4*	0.5	0.0	3674
ZAF ZWE	0.0	0.9*	1.2*	1.1*	6448
7\A/E	0.0	0.2	0.2	0.2	2714

Table 8: exT4-1

Table 9: .

ALB					
ALB ARG 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1		-5	5-500k	500k-	N
ARG AUS 0.0 0.0 0.1 0.1 0.1 0.6466 AZE 0.0 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.0 0.1 0.1 0.0 0.1 0.1 0.0 0.1 0.1 0.0 0.1 0.1 0.0 0.1 0.1 0.0 0.1 0.1 0.8 0.0 0.0	ALB				
AUS AZE 0.0 -0.4* 0.3 1002 BFA 0.0 -0.1 -0.0 1421 BGD BGD 0.0 0.1+ 1.5* 4106 BGR 0.0 0.0 -0.1 -0.0 1421 BLR 0.0 0.0 -0.1 -0.0 1.201 BLR 0.0 0.0 -0.1 -0.5* 2014 BLR 0.0 0.0 -0.1 -0.0 7462 CAN 0.0 -0.1* -0.5* 5720 CHL 0.0 -0.1* -0.5* 5720 CHL 0.0 0.5* 0.3* 9407 COL CHL 0.0 0.5* 0.3* 9407 COL 0.0 0.1 -0.1 -0.1 6657 CHN 0.0 0.5* 0.3* 9407 COL EGY 0.0 -0.0 -0.0 -0.0 -0.0 7625 DZA 0.0 0.0 -0.1 -0.0 -0.0 7625 DZA 0.0 0.0 -0.1 -0.0 -0.0 7625 DZA 0.0 0.0 -0.1 -0.0 -0.0 920 EGY 0.0 -0.0 -0.0 -0.0 -0.0 920 ESP 0.0 0.0 -0.1 -0.2* 3898 ETH 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.					
AZE BFA 0.0 -0.1 -0.0 1421 BGD 0.0 -0.1 -1.0 0.1 1421 BGD 0.0 0.1+ 1.5* 4106 BGR 0.0 0.7* 0.9* 2014 BLR 0.0 0.4* 0.5* 3603 BOL 0.0 0.1 -1.0 1.1 2058 BRA 0.0 0.1 -1.0 -0.0 7462 CAN 0.0 -0.1* -0.5* 5720 CHL 0.0 -0.1* -0.5* 5720 CHL 0.0 0.0 -1.1 -0.1 6657 CHN 0.0 0.0 1.1 -0.1 6657 CHN 0.0 0.0 0.1 0.1 6025 DEU 0.0 0.0 0.1 0.1 6025 DEU 0.0 0.0 0.1 0.1 6025 DEU 0.0 0.0 0.2 0.4 2433 ECU 0.0 0.2 0.4 2433 ECU 0.0 0.0 -0.6* -1.0* 6120 ESP 0.0 0.0 -0.6* -1.0* 6120 ESP 0.0 0.0 -0.1 -0.2* 3898 ETH 0.0 0.2 0.3 2719 FRA 0.0 0.0 0.2 0.3 2719 FRA 0.0 0.0 0.3* 0.5* 2676 GHA 0.0 0.7* 0.5* 308 GRC 0.0 0.3* 0.5* 2202 HRV 0.0 0.0 0.6* 0.3* 2202 HRV 0.0 0.0 0.6* 0.3* 2202 HRV 0.0 0.0 0.0 0.0 0.0 0.0 1000 GFO GTM 0.0 0.0 0.0 0.3* 0.5* 3081 ITA 0.0 0.0 0.0 0.0 0.3+ 1152 ITS IRN 0.0 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.0 0.1 1006 IND 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.1 0.0 0.2 0.3 ITA 0.0 0.0 0.0 0.1 1000 IND 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.0 0.1 1000 IND 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.0 0.1 1000 IND 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.0 0.1 1000 IND 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.1 0.1 1006 IND 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0					
BFA BGD BGR 0.0 0.1+ 1.5* 4106 BGR BGR 0.0 0.0 0.1+ 1.5* 4106 BGR BLR 0.0 0.0 0.4* 0.5* 3603 BOL BRA 0.0 0.0 0.1 0.1 0.0 0.7* 0.9* 2014 BBRA BRA 0.0 0.0 0.1 0.1 0.0 0.74 62 CAN CAN 0.0 0.0 0.1* 0.0 0.1* 0.0 0.74 62 CHL 0.0 0.0 0.1* 0.0 0.1* 0.05* 5720 CHL 0.0 0.0 0.1 0.1 0.1 0.657 CCHN 0.0 0.0 0.5* 0.3* 9407 COL 0.0 0.0 0.1 0.1 0.1 0.0 0.5* 0.3* 9407 COL 0.0 0.0 0.1 0.1 0.0 0.2 0.4 2433 ECU 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.					
BGD 0.0 0.1+ 1.5* 4106 BGR 0.0 0.7* 0.9* 2014 BLR 0.0 0.4* 0.5* 3603 BOL 0.0 0.1 0.1 2058 BRA 0.0 0.1 0.0 7462 CAN 0.0 -0.1* -0.5* 5720 CHI 0.0 -0.1 -0.1 6657 CHN 0.0 -0.1 -0.1 6657 CHN 0.0 0.1 1.1 6025 CHN 0.0 0.0 0.1 1.1 6025 CHN 0.0 0.0 0.1 0.0 602 0.0 6625 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.0 24433 8407 ECU 60.0 0.0 0.0 0.0 0.0 2.0 2.3 2719 FRA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 <		0.0			
BGR BLR 0.0 0.4* 0.5* 3601 BOL 0.0 0.4* 0.5* 3603 BOL 0.0 0.0 0.1 0.1 0.0 0.7* 0.9* 3601 BRA 0.0 0.0 0.1 0.1 0.0 0.7* 0.9* 3602 BRA 0.0 0.0 0.1 0.1 0.0 0.7* 0.9* 3602 BRA 0.0 0.0 0.1 0.1 0.1 0.0 0.5* 5720 CHL 0.0 0.0 0.1 0.1 0.1 0.2 0.4 0.2 0.4 2433 ECU 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.0 0.2 0.4 2433 ECU 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.0 0.2 0.4 2433 ECY 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.					
BLR BOL 0.0					
BOL BRA 0.0 0.1 -0.1 -0.5* 5720 CHL 0.0 -0.1* -0.5* 5720 CHL 0.0 -0.1 -0.1 -0.1 6657 CHN 0.0 0.0 -0.1 -0.1 -0.1 6657 CHN 0.0 0.0 -0.1 -0.1 -0.1 6657 CHL 0.0 0.0 -0.1 -0.1 -0.1 6657 CHL 0.0 0.0 -0.1 -0.1 -0.1 6655 DEU 0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0					
BRA 0.0 0.1 -0.0* 7462 CAN 0.0 -0.1* -0.5* 5720 CHL 0.0 -0.1 -0.1 6657 CHN 0.0 0.1 -0.1 6657 COL 0.0 0.0 -1.0 1.0 6025 DEU 0.0 -0.0 -0.0 -0.0 7625 802 ECU 0.0 0.0 -0.1 0.0 240 2433 ECU 0.0 -0.1 0.0 2400 ESP 6120 8898 ECU 868 1.0* 6120 8898 867 871 871 8989 871					
CAN CHL 0.0 CHL 0.0 CHL 0.0 CHL 0.0 CHN 0.0 COL 0.0 CHN 0.0 COL 0.0 CHN 0.0 COL 0.0 CHN 0.0 COL 0.0 CHN 0.0 CH					
CHL CHN COL ON COL COL COL ON COL					
CHN COL DEU DEU DOL DEU DOL DEU DOL DEU DOL DEU DOL DEU DOL DOL DEU DOL DOL DEU DOL DOL DEU DOL					
COL 0.0 0.1 0.1 6025 DZA 0.0 -0.0 -0.0 7625 DZA 0.0 -0.1 -0.0 2433 ECU 0.0 -0.1 0.0 2400 EGY 0.0 -0.0* -1.0* 6120 ESP 0.0 -0.1 -0.2* 3898 ETH 0.0 0.2 0.3 2719 FRA 0.0 0.0 0.0 1000 GEO 0.0 0.0 0.0 0.0 1000 GEO 0.0 0.2* -0.4* 1200 GRC 0.0 0.2* -0.4* 1200 GTM 0.0 0.0 0.2* -0.4* 1200 GTM 0.0 0.0 0.0 0.3* 2202 HRV 0.0 0.0 0.0 0.3+ 1200 IDN 0.0 0.0 0.0 0.3+ 1202 IDN <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
DEU DZA 0.0 -0.0 -0.0 -0.0 7625 ECU 0.0 -0.1 -0.2 0.4 2433 ECU 0.0 -0.6* -1.0* 6120 ESY 0.0 -0.6* -1.0* 6120 ESP 0.0 -0.1 -0.2* 3898 ETH 0.0 0.2 0.3 2719 FRA 0.0 0.0 0.0 0.0 1000 GEO 0.0 0.0 0.0 0.0 1000 GEO GRC 0.0 0.0 0.7* 0.5* 3080 GRC GRC 0.0 0.0 0.2 -0.4* 1200 GTM 0.0 0.6* 0.3* 2202 HRV 0.0 0.0 0.6* 0.3* 1152 HUN 0.0 0.0 0.6* 0.3* 1152 HUN 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.2 0.4* 11971 IRN 0.0 0.0 0.0 0.2 0.4* 11971 IRN 0.0 0.0 0.1 -0.0 3973 ITA 1.0 0.0 0.1 -0.0 1.1 1006 JOR 0.0 0.1 -0.0 0.1 1006 JOR 0.0 0.1 -0.0 2761 KGZ 0.0 0.1 -0.0 2761 KGZ 0.0 0.1 -0.0 2761 KGZ 0.0 0.1 -0.0 2761 VAA 0.0 0.1 0.1 0.1 1034 LBN 0.0 0.1 0.1 0.1 1034 LBN 0.0 0.0 0.1 -0.2 2159 LTU 0.0 0.6* 0.7* 996 LVA 0.0 0.0 0.0 0.0 0.0 9329 MKD 0.0 0.0 0.0 0.0 0.0 9329 MKD 0.0 0.0 0.0 0.0 0.0 0.0 9329 MKD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9329 MKD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9329 MKD 0.0 0.0 0.0 0.0 0.0 0.0 1770 PAK 0.0 0.0 0.0 0.0 0.0 1770 PAK 0.0 0.0 0.0 0.0 0.0 1770 PAK 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1770 PAK 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1770 PAK 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1770 PAK 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1770 PAK 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0					
DZA 0.0 0.2 0.4 2433 EGY 0.0 -0.1 0.0 2400 EGY 0.0 -0.6* -1.0* 6120 ESP 0.0 -0.1 -0.2* 3898 ETH 0.0 0.2 0.3 2719 FRA 0.0 0.0 0.0 1000 GEO 0.0 0.3* 0.5* 2676 GHA 0.0 0.7* 0.5* 3080 GRC 0.0 0.2 -0.4* 1200 GTM 0.0 0.2 -0.4* 1200 GTM 0.0 0.0 0.3* 2202 HRV 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.0 3.3+ 1152 HRV 0.0 0.0 0.0 3.3+ 1152 HBV 0.0 0.0 0.2* 0.3* 6092 IND 0.0 0.2* <td< td=""><td>COL</td><td>0.0</td><td></td><td>0.1</td><td></td></td<>	COL	0.0		0.1	
ECU 0.0 -0.1 0.0 2400 EGY 0.0 -0.6* -1.0* 6120 ESP 0.0 -0.1 -0.2* 3898 ETH 0.0 0.0 0.2 0.3 2719 FRA 0.0 0.0 0.0 0.0 1000 GEO 0.0 0.3* 0.5* 2676 GHA 0.0 0.7* 0.5* 3080 GRC 0.0 0.0 0.2* 0.4* 1200 GTM 0.0 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.2* 0.3* 6092 IND 0.0 0.2* 0.4* 11971 IRN 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.2+ 2631 ITA 0.0 0.0 0.1 0.0 0.2+ 2631 ITA 0.0 0.0 0.1 0.0 0.2 KAZ 0.0 0.1 0.1 0.1 3622 KAZ 0.0 0.1 0.1 0.1 3622 KAZ 0.0 0.1 0.1 0.1 1034 LBN 0.0 0.1 0.1 0.1 1034 LBN 0.0 0.1 0.1 0.1 1034 LBN 0.0 0.0 0.1 0.1 1034 LBN 0.0 0.1 0.1 0.1 1034 LBN 0.0 0.0 0.1 0.1 1034 LBN 0.0 0.1 0.1 0.1 1034 LBN 0.0 0.1 0.1 0.1 1034 LBN 0.0 0.1 0.1 0.1 1034 LBN 0.0 0.0 0.6* 0.7* 996 LVA 0.0 0.0 0.0 0.0 0.0 9329 MKD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9329 MKD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9329 MKD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9329 MKD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.					
ESY 0.0 -0.6* -1.0* 6120 ESP 0.0 -0.1 -0.2* 3898 ETH 0.0 0.0 -0.1 -0.2* 3898 ETH 0.0 0.0 0.2 0.3 2719 FRA 0.0 0.0 0.0 0.0 0.0 1000 GEO 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.					
ESP ETH 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0					
ETH FRA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.					
FRA GEO GEO GEO O.0 GEO O.0 O.0 O.3* O.5* C676 GHA O.0 O.0 O.7* O.5* S080 GRC O.0 O.0 O.0 O.2 O.4* I 1200 GTM O.0 O.0 O.0 O.0 O.0 O.0 O.3* C22 O.4* I 1200 GTM O.0					
GEO GHA GHA O.0 O.7* O.5* 3080 GRC O.0 O.0 O.2 GTM O.0 O.0 O.3* D.3* D.2 D.3* D.0					
GHA GRC O.0 O.0 O.2 O.4* I200 GTM O.0 O.0 O.6* O.3* D.200 HRV O.0 O.0 O.0 O.0 O.0 O.3+ D.5* HUN O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 HUN O.0					
GRC GTM 0.0 0.0 0.6* 0.3* 2202 HRV 0.0 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.2+ 0.3* IRQ 0.0 0.0 0.0 0.2+ 0.3* IRQ 0.0 0.0 0.0 0.0 0.2+ 0.3* IRQ 0.0 0.0 0.0 0.0 0.1 0.0 0.2+ 0.3* IRQ 0.0 0.0 0.0 0.1 0.1 0.1 0.2 IDD 0.0 0.0 0.1 0.1 0.1 0.0 0.0 0.1 0.1 0.1			0.3*	0.5*	
GRC GTM 0.0 0.0 0.6* 0.3* 2202 HRV 0.0 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.0 0.2* 0.3* 6092 IND 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.2+ 0.3* IRQ 0.0 0.0 0.0 0.2+ 0.3* IRQ 0.0 0.0 0.0 0.0 0.2+ 0.3* IRQ 0.0 0.0 0.0 0.0 0.1 0.0 0.2+ 0.3* IRQ 0.0 0.0 0.0 0.1 0.1 0.1 0.2 IDD 0.0 0.0 0.1 0.1 0.1 0.0 0.0 0.1 0.1 0.1		0.0	0.7*	0.5*	3080
GTM HRV 0.0 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.0 0.2* 0.4* 11971 IRN 0.0 0.0 0.0 0.0 0.0 0.2+ 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	GRC	0.0	0.2	-0.4*	1200
HRV	GTM	0.0	0.6*	0.3*	2202
HUN IDN IDN IDN IDN IDN IDN IDN IDN IDN ID					
IDN		0.0	-0.0		
IND	IDN			0.3*	6092
IRN					
IRQ					
ITA					
JOR KAZ KAZ 0.0 0.1 0.1 -0.0 2761 KGZ 0.0 0.1 -0.7* 3731 KWT 0.0 0.1 0.1 1034 LBN 0.0 -0.1 0.1 1034 LBN 0.0 -0.1 0.0 1.0 1.0 1.0 1.0 1.					
KAZ 0.0 0.1 -0.0 2761 KGZ 0.0 -0.1 -0.7* 3731 KWT 0.0 0.1 0.1 1034 LBN 0.0 -0.1 -0.2 2159 LTU 0.0 0.6* 0.7* 996 LVA 0.0 -0.0 -0.4* 1190 MAR 0.0 0.0 -0.4* 1190 MAR 0.0 0.0 -0.4* 1190 MEX 0.0 0.0 -0.4* 1190 MKD 0.0 0.0 -0.0 9329 MKD 0.0 0.0 0.3* 2031 MYS 0.0 0.1 -0.1 2919 NGA 0.0 -0.2* 0.2* 7807 NZL 0.0 -0.3* 0.0 1770 PAK 0.0 -0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602					
KGZ 0.0 -0.1 -0.7* 3731 KWT 0.0 0.1 0.1 1034 LBN 0.0 -0.1 -0.2 2159 LTU 0.0 0.6* 0.7* 996 LVA 0.0 -0.0 -0.4* 1190 MAR 0.0 0.4* 0.3 2442 MDA 0.0 0.5* 0.8* 3000 MEX 0.0 0.0 -0.0 9329 MKD 0.0 0.0 -0.0 9329 MKD 0.0 0.0 0.3* 2031 MYS 0.0 0.1 -0.1 2919 NGA 0.0 -0.2* 0.2* 7807 NZL 0.0 -0.3* 0.0 1770 PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600					
KWT 0.0 0.1 0.1 1034 LBN 0.0 -0.1 -0.2 2159 LTU 0.0 -0.6* 0.7* 996 LVA 0.0 -0.0 -0.4* 1190 MAR 0.0 0.4* 0.3 2442 MDA 0.0 0.5* 0.8* 3000 MEX 0.0 0.0 -0.0 9329 MKD 0.0 0.0 0.3* 2031 MYS 0.0 0.1 -0.1 2919 NGA 0.0 0.1 -0.1 2919 NGA 0.0 0.2* 0.2* 7807 NZL 0.0 -0.3* 0.0 1770 PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
LBN LTU D.0 D.0 D.6* D.7* D.96 LVA D.0 D.0 D.6.* D.7* D.96 LVA D.0 D.0 D.0 D.4* D.3 D.4* D.0 D.0 D.5* D.8* D.0					
LTU 0.0 0.6* 0.7* 996 LVA 0.0 -0.0 -0.4* 1190 MAR 0.0 0.4* 0.3 2442 MDA 0.0 0.5* 0.8* 3000 MEX 0.0 0.0 0.0 -0.0 9329 MKD 0.0 0.0 0.0 -0.0 9329 MKD 0.0 0.1 -0.1 2919 NGA 0.0 -0.2* 0.2* 7807 NZL 0.0 -0.3* 0.0 1770 PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.3* 0.6* 3600 POL 0.0 0.3* 0.6* 3600 POL 0.0 0.3* 0.6* 3600 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 0.3* 0.5* 8187 RWA 0.0 0.3* 0.5* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA					
LVA MAR 0.0 MAR 0.0 0.4* 0.3 2442 MDA 0.0 0.5* 0.8* 3000 MEX 0.0 0.0 0.0 0.0 0.0 0.0 MKD 0.0 0.0 0.0 0.0 0.0 0.3* 2031 MYS 0.0 0.0 0.1 0.1 1-0.1 2919 NGA 0.0 0.0 0.2* 0.4* 3677 PER 0.0 0.0 0.5* 0.5* 2602 PHL 0.0 0.0 0.3* 0.6* 3600 POL POL 0.0 0.3* 0.6* 3600 POL ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.0 0.3* 0.5* 8187 RWA 0.0 0.0 0.3* 0.5* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA					
MAR 0.0 0.4* 0.3 2442 MDA 0.0 0.5* 0.8* 3000 MEX 0.0 0.0 -0.0 9329 MKD 0.0 0.0 0.3* 2031 MYS 0.0 0.1 -0.1 2919 NGA 0.0 -0.2* 0.2* 7807 NZL 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086					
MDA 0.0 0.5* 0.8* 3000 MEX 0.0 0.0 -0.0 9329 MKD 0.0 0.0 0.3* 2031 MYS 0.0 0.1 -0.1 2919 NGA 0.0 -0.2* 0.2* 7807 NZL 0.0 -0.3* 0.0 1770 PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.1 -0.7* 4086					
MEX 0.0 0.0 -0.0 9329 MKD 0.0 0.0 0.3* 2031 MYS 0.0 0.1 -0.1 2919 NGA 0.0 -0.2* 0.2* 7807 NZL 0.0 -0.3* 0.0 1770 PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.1 -0.7* 4086					
MKD 0.0 0.0 0.3* 2031 MYS 0.0 0.1 -0.1 2919 NGA 0.0 -0.2* 0.2* 7807 NZL 0.0 -0.3* 0.0 1770 PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.1 -0.7* 4086					
MYS 0.0 0.1 -0.1 2919 NGA 0.0 -0.2* 0.2* 7807 NZL 0.0 -0.3* 0.0 1770 PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.1 -0.7* 4086					
NGA 0.0 -0.2* 0.2* 7807 NZL 0.0 -0.3* 0.0 1770 PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086					
NZL 0.0 -0.3* 0.0 1770 PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086					
PAK 0.0 0.2* 0.4* 3677 PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086					
PER 0.0 0.5* 0.5* 2602 PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086			-0.3*	0.0	
PHL 0.0 0.3* 0.6* 3600 POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086			0.2*	0.4*	
POL 0.0 0.2* 0.1 3093 ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086					
ROU 0.0 0.3* 0.4* 5618 RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086					
RUS 0.0 0.3* 0.5* 8187 RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086					
RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086					
RWA 0.0 -0.6* -0.7* 3030 SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086		0.0			
SRB 0.0 0.3* 0.2* 4654 SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086	RWA		-0.6*	-0.7*	
SVN 0.0 0.4* 0.1 3065 SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086			0.3*		
SWE 0.0 0.4* 0.3* 2882 THA 0.0 0.1 -0.7* 4086			0.4*		
THA 0.0 0.1 -0.7* 4086					
	TJK	0.0	-0.2	-0.1	1200
TUN 0.0 0.1 -0.7* 2405					
TUR 0.0 1.2* 1.4* 2405					
UKR 0.0 0.1 0.0 4169					
URY 0.0 0.1 0.0 4109 URY 0.0 0.1 0.1 2717					
				0.1	
USA 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493				-0.5	
VEN 0.0 -1.8* -1.5* 2385					
VNM 0.0 0.2* -0.3+ 3674					
ZAF 0.0 1.0* 1.1* 6448					
ZWE 0.0 0.3* 0.3+ 2714		0.0	0.3*	0.3+	2/14

* p<0.05, + p<0.1; robust std err

Table 10: exT3-1

Table 11: .

	-2k	2-5k	5-10k	10-20k	20-50k	50-100k	100-500k	500k-	N
ALB	0.0	0.3+	-0.0	0.0	0.2	0.1	0.5*	0.5*	1960
ARG	0.0	0.5*	0.2	0.4*	0.4*	0.6*	-0.2	0.0	4010
AUS	0.0	0.1	-0.1	0.1	-0.1	0.0	-0.1	-0.0	6466
AZE	0.0	-0.1	-0.8*	-0.5	-0.2	-0.3	-0.6*	0.2 -0.5*	1002
BFA	0.0	-0.8*	-0.4+	-1.0*	-0.6*	0.2	-0.1	-0.5*	1421
BGD	0.0	-0.4*	-0.1	-0.6*	-0.3*	0.1	0.1	1.2*	4106
BGR	0.0	0.5*	0.6*	0.7*	0.8*	0.9*	1.0*	1.0*	2014
BLR	0.0	0.7*	0.1	0.8*	0.3+	0.7*	0.5*	0.6* 0.1	3603
BOL BRA	0.0 0.0	-0.0	-0.1	-0.1 0.3	-0.1	0.2	-0.1	0.1	2058
CAN	0.0	0.1 0.1	0.7* -0.1	-0.1	0.4 -0.0	0.3 -0.1	0.0 -0.2+	-0.5*	7462 5720
CHL	0.0	0.6+	0.8	0.4	0.5+	0.1	-0.1	0.0	6657
CHN	0.0	-0.1	0.6*	0.7*	0.2	0.5*	0.6*	0.3+	9407
COL	0.0	-0.9+	-0.5	-0.7+	-0.5	-0.5	-0.6	-0.6+	6025
DEU	0.0	0.1	0.1	-0.0	-0.1	0.1	0.0	0.0	7625
DZA	0.0	1.9*	0.1	0.2	0.5*	0.2	0.3	0.5	2433
ECU	0.0	-0.2	-0.2	-0.1	-0.6+	-0.3	-0.2	-0.1	2400
EGY	0.0	0.6*	-0.2	-0.1	-0.2	0.0	-0.4	-0.5+	6120
ESP	0.0	-0.2	-0.2	-0.3+	-0.1	-0.1	-0.3*	-0.3*	3898
ETH	0.0	+8.0	0.9*	0.2	0.3	0.8*	1.1*	1.0*	2719
FRA	0.0	-0.3	-0.8*	-0.3	0.1	0.3	0.0	-0.1	1000
GEO	0.0	0.1	0.4*	0.1	0.1	1.0*	0.5*	0.6*	2676
GHA	0.0	0.3	0.9* 0.4	1.0*	1.0*	1.1*	0.8*	0.7*	3080
GRC	0.0	0.2 -0.2	0.4	-0.1 0.9*	0.2 0.5*	0.5* 1.0*	-0.3 0.7*	-0.3* 0.3+	1200
GTM HRV	0.0	-0.2	0.1	0.9*	0.5*	1.U**	0.7"	0.3+	2202
HUN	0.0 0.0	-0.3 0.3	2.0* -0.2	0.1 -0.1	0.4 0.4+	-0.7* -0.2	0.3 0.7*	0.2 0.2	1152 1649
IDN	0.0	0.3	-0.2 0.2+	0.1	0.4+	0.6*	0.4*	0.4*	6092
IND	0.0	0.1 0.4*	0.0	0.7*	0.8*	0.1	0.4*	0.6*	11971
IRN	0.0	-0.7	-0.2	0.3	-0.0	-0.6*	-0.3+	-0.1	3973
IRQ	0.0	-0.2 -0.5+	-0.4	-0.5	-0.1	-0.3	-0.6+	-0.3	2631
ITA	0.0	-0.4	-0.4 -0.2	-0.5 -0.2	-0.3	-0.4	-0.6+ -0.3	-0.1	1006
JOR	0.0	0.0	-0.0	0.3	0.2	-0.1	0.1	0.1	3622
KAZ	0.0	-0.1	-0.1	-0.3+	0.4*	0.4	-0.0	-0.1	2761
KGZ	0.0	-0.1	-0.2	-0.4*	-0.2	-0.5*	0.4*	-0.8*	3731
KWT	0.0	1.5*	0.4	-0.0	-0.2	0.4	0.9*	0.6* -0.2	1034
LBN	0.0	-0.0	-0.2	-0.1	-0.0	-0.2	-0.2	-0.2	2159
LTU	0.0	0.4	0.2	0.5	0.6+	-0.0	0.8* -0.5	0.7*	996
LVA	0.0	-0.0	0.4	0.1	-0.0	-0.0	-0.5	-0.4*	1190
MAR MDA	0.0	-0.2 0.2*	-0.0 0.4*	0.1 0.3+	-0.0 0.7*	0.5 -2.0*	0.6* 1.3*	0.1 0.9*	2442 3000
MEX	0.0	0.2	0.4	-0.0	0.7*	0.1	0.1	0.9	9329
MKD	0.0	0.8*	0.0	0.3	0.1	0.3+	1.4*	0.6*	2031
MYS	0.0	0.4*	0.4*	0.4*	0.4*	0.2	0.3*	0.2	2919
NGA	0.0	-0.3+	-0.8*	-0.7*	-0.4*	-0.4*	-0.3+	0.0	7807
NZL	0.0	0.5	-0.3	-0.2	-0.3	-0.2	-0.4*	0.0	1770
PAK	0.0 0.0	0.1	0.2+	1.9*	0.4	2.3*	0.2	0.5*	3677
PER	0.0	0.1	-0.1	0.3	0.3	0.4*	0.7*	0.5*	2602
PHL	0.0	0.3	0.1	0.5+	0.8*	0.4+	0.7*	1.0*	3600
POL	0.0	0.2	0.3	0.4*	0.0	0.2	0.3*	0.1	3093
ROU	0.0	0.3*	0.2+	0.1	0.5*	0.2	0.8*	0.6*	5618
RUS	0.0	0.6*	0.6*	0.4*	0.6*	0.4*	0.4*	0.7*	8187
RWA	0.0	-0.7+	-1.5*	-1.3*	-1.0*	-1.3*	-1.0*	-1.3*	3030
SRB	0.0	0.3*	0.2	0.2	0.4*	0.7*	0.3*	0.3*	4654
SVN	0.0	0.3*	0.3*	0.7*	0.2+	0.4+	0.5*	0.2	3065
SWE	0.0	0.2 0.2+	0.4	0.3	0.4*	0.4* -0.1	0.5*	0.4*	2882 4086
THA	0.0	0.2+	0.2+	0.3+	0.1	-0.1	-0.0	-0.7*	4086
TJK	0.0 0.0	-0.1	-0.2 -0.4	-0.7*	0.2	-0.2	-0.5* -0.2	-0.2	1200 2405
TUN		-0.6 2.2*		-0.6+	0.2 0.9*	-0.4 0.8*		-1.1*	
TUR UKR	0.0 0.0	-3.2* 0.4*	0.6* 0.1	0.2 0.5*	0.9** 0.1	0.8* 0.1	0.9* 0.1	1.0* 0.2	2405 4169
URY	0.0	0.4	0.1	0.5	0.1	0.1	1.6*	0.2	2717
USA	0.0	-0.3*	-0.2	-0.1	-0.2*	-0.4*	-0.3*	-0.5*	5586
UZB	0.0	0.3*	-0.2 0.5+	0.1	-0.2	-1.0*	-0.0	-0.3+	1493
VEN	0.0	1.5	-1.1	-0.9	-0.6	-0.8	-0.8	-0.5 -0.5	2385
VNM	0.0	0.5*	0.4+	1.0*	0.3	1.2*	1.0*	0.5	3674
ZAF	0.0	0.5* -0.1	0.4*	0.9*	1.1*	1.2*	1.2*	1.2*	6448
ZWE	0.0	0.1	0.4+	0.1	0.5*	0.1	0.6*	0.4+	2714
* p<0.05, + p<0.1; robust std err									
. , , , , , , , , , , , , , , , , , , ,			-	2. ovT 1					

Table 12: exT-1

Table 13: .

	-10	10-50k	50-500k	500k-	N
ALB	0.0	-0.3*	-0.1	-0.0	1864
ARG	0.0	0.2	-0.2	0.1	955
AUS	0.0	0.1	-0.1	-0.1	3895
AZE	0.0	0.1	-0.2	0.2	995
BFA	0.0	-0.2	0.3	-0.4	636
BGD	0.0	-0.2	0.1	0.9*	2562
BGR	0.0	0.0	0.1	-0.1	1637
BLR	0.0	0.0	-0.0	0.0	3394
BRA	0.0	-0.2	-0.5*	-0.5*	3780
CAN	0.0	-0.2	-0.2*	-0.5*	3320
CHL	0.0	0.5	-0.2*	-0.6*	3823
CHN	0.0	0.5	0.3*	0.1	4371
COL	0.0	0.2	0.1	-0.0	4376
DEU	0.0	-0.2*	-0.0	0.0	5137
DZA	0.0	0.3+	0.0	-0.1	1806
ECU	0.0	-0.5	-0.6*	-0.1 -0.5+	1187
EGY	0.0	-0.2	-0.0	-0.8*	3466
ESP	0.0	0.1	-0.0	-0.2+	1652
ETH	0.0	-1.8*	-0.2	-0.4	1246
GEO	0.0	-0.0	0.0	0.1	2602
GHA	0.0	0.3*	0.1	-0.2	2602
HUN	0.0	-0.1	-0.0	-0.6*	952
IDN	0.0	0.2+ 0.5*	0.1 -0.4*	0.1	2459
IND	0.0			0.5*	6931
IRN	0.0	0.3	-0.5*	0.1	2208
IRQ	0.0	0.2	-0.4*	-0.2	1233
ITA	0.0	-0.3*	-0.5*	0.0	639
JOR	0.0	0.2*	0.1	-0.1	2137
KAZ	0.0	0.4*	-0.0	-0.3*	1497
KGZ	0.0	-0.3	0.3*	-0.5*	2427
KWT	0.0	-0.4	0.5*	0.1	953
LBN	0.0	0.1	0.1	-0.2	898
LTU	0.0	0.2	0.3	0.5+	889
LVA	0.0	-0.2	-0.5*	-0.7*	1119
MAR	0.0	0.2	0.2	-0.2	888
MDA	0.0	0.1	0.1	0.2	2740
MEX	0.0	0.0	-0.1	-0.3*	3782
MKD MYS	0.0	-0.3+	0.1	-0.2 -0.2	1600 1559
NGA	0.0	0.3+ 0.1	0.1 0.1	0.1	4628
NZL	0.0	0.1	-0.2	0.1	625
PAK	0.0	0.2	0.3	0.4*	1131
PER	0.0	0.2	0.7*	-0.3	1122
PHL	0.0	0.2	-0.1	0.1	2343
POL	0.0	-0.2	-0.1	-0.3+	2683
ROU	0.0	-0.2*	-0.0	0.3*	3966
RUS	0.0	0.2+	0.1	0.2*	3999
RWA	0.0	-0.1	-0.3*	0.3	2432
SRB	0.0	-0.1	0.3*	-0.5*	3128
SVN	0.0	-0.1 0.2+	0.3	-0.3	1896
SWE	0.0	0.2+	0.1	0.1	1888
THA	0.0	-0.2	0.1	0.0	2387
TUN	0.0	-0.2	0.1	0.0	901
UKR	0.0	0.0	-0.2*	-0.2*	3593
URY	0.0	0.3*	0.2	0.1	2511
USA	0.0	0.0	-0.2*	-0.2*	3493
UZB	0.0	-0.0	0.0	-0.2*	1407
VEN	0.0	-0.0	-0.8*	-0.3	1111
VNM	0.0	-0.5 0.3*	-0.8**	-0.1 -0.5	2330
ZAF	0.0	0.3*	-0.0 0.3*	-0.5 0.1	2330 5575
ZWE	0.0	-0.1	0.3** 0.1	-0.0	5575 1492
* p < 0.05 p < 0.1; rebust std err	0.0	-0.1	U.I	-0.0	1492

* p<0.05, + p<0.1; robust std err

Table 14: exT4-2

Table 15: .

	-5	5-500k	500k-	N
ALB	0.0	-0.2*	-0.1	1864
ARG	0.0	-0.2	-0.0	955
AUS	0.0	-0.1	-0.2*	3895
AZE	0.0	-0.2	0.1	995
BFA	0.0	0.3	-0.0	636
BGD		0.3	0.9*	2562
	0.0			
BGR	0.0	0.0	-0.1	1637
BLR	0.0	-0.0	-0.0	3394
BRA	0.0	0.1	-0.1	3780
CAN	0.0	-0.2*	-0.5*	3320
CHL	0.0	-0.5	-0.5	3823
CHN	0.0	0.4*	0.2+	4371
COL		0.0	-0.1	4376
DEU	0.0	-0.1	0.0	5137
DZA	0.0	-0.4+	-0.6	1806
ECU	0.0	-1.0*	-0.8*	1187
EGY	0.0	-0.4*	-1.1*	3466
ESP	0.0	-0.0	-0.3+	1652
ETH	0.0	0.0	-0.2	1246
GEO	0.0	0.1	0.1	2602
GHA		0.1		
	0.0	0.3*	-0.1	2602
HUN	0.0	-0.1	-0.6*	952
IDN	0.0	0.1	0.1	2459
IND	0.0	-0.0	0.4*	6931
IRN	0.0	-0.4*	-0.0	2208
IRQ	0.0	-0.2	-0.2	1233
ITA	0.0	-0.2	0.1	639
JOR	0.0	0.1	-0.1	2137
KAZ	0.0	0.1	-0.3*	1497
KGZ	0.0	-0.1	-0.5*	2427
KWT	0.0	0.3	0.2	953
LBN	0.0	-0.0	-0.3	898
LTU	0.0	0.2	0.5+	889
LVA	0.0	-0.3+	-0.7*	1119
MAR	0.0	0.0	-0.3	888
MDA	0.0	0.2+	0.2+	2740
MEX	0.0	-0.0	-0.3*	3782
MKD	0.0	-0.2+	-0.3	1600
MYS	0.0	0.1	-0.3	1559
NGA	0.0	-0.2+	-0.3	4628
NZL			-0.2	625
	0.0	0.0	0.5*	
PAK	0.0	0.5*	0.5*	1131
PER	0.0	0.5*	-0.3	1122
PHL	0.0	-0.0	0.1	2343
POL	0.0	-0.1	-0.3+	2683
ROU	0.0	-0.1+	0.3*	3966
RUS	0.0	0.3*	0.3*	3999
RWA	0.0	-0.8*	-0.3	2432
SRB	0.0	0.1	-0.6*	3128
SVN	0.0	0.2*	-0.3	1896
SWE	0.0	0.2	0.2	1888
THA	0.0	0.1	0.1	2387
TUN	0.0	0.1	0.1	901
			0.2*	
UKR	0.0	-0.1	-0.2*	3593
URY	0.0	0.3*	0.1	2511
USA	0.0	-0.1	-0.2*	3493
UZB	0.0	0.1	-0.3+	1407
VEN	0.0	-2.2*	-1.6*	1111
VNM	0.0	0.1	-0.5+	2330
ZAF	0.0	0.3*	0.2	5575
ZWE	0.0	0.2	0.1	1492

Table 16: exT3-2

Table 17: .

	-2k	2-5k	5-10k	10-20k	20-50k	50-100k	100-500k	500k-	N
ALB	-2K 0.0	2-5K 0.3*	-0.3+	-0.6*	-0.2	-0.3	0.1	-0.0	1864
ARG	0.0	0.9*	-0.3 -0.3	0.1	0.4	0.0	-0.4	0.1	955
AUS	0.0	0.0	-0.3	0.1	0.4	-0.1	-0.4	-0.2	3895
AZE	0.0 0.0	-0.0	-0.3 -0.4	-0.2	0.1	-0.1	-0.4	0.1	995
BFA	0.0	0.1	0.6+	-0.2	0.3	0.6+	0.7	-0.0	636
BGD	0.0	-0.4*	-0.2	-0.4*	-0.5*	-0.1	-0.3	-0.0 0.5*	2562
BGR	0.0	0.5*	0.1	0.2	0.2	0.0	0.4*	0.1	1637
BLR	0.0	0.3	-0.2	0.2	-0.1	0.1	-0.0	0.0	3394
BRA	0.0	-0.3	0.4	-0.1	-0.1	-0.2	-0.5	-0.4	3780
CAN	0.0	-0.0	-0.2	-0.2	-0.1 -0.2+	-0.3*	-0.2*	-0.5*	3320
CHL	0.0	0.5	1.0	-0.1	1.2*	-0.2	-0.3	-0.2	3823
CHN	0.0	0.0	0.5*	0.8*	0.1	0.2	0.6*	0.4+	4371
COL			0.0	0.8* 0.0	0.1 0.2 -0.2*	0.1	0.0	-0.0	4376
DEU	0.0	-0.1	-0.0	-0.2*	-0.2*	-0.0	-0.0	-0.0	5137
DZA	0.0	1.7*	-0.5*	-0.1	-0.1	-0.5+ -1.1*	-0.3 -0.9*	-0.5 -0.8*	1806
ECU	0.0	0.1	-1.2	-1.0*	-0.7*	-1.1*	-0.9*	-0.8*	1187
EGY	0.0	0.6+	0.0	-0.1	-0.1	0.3	-0.3	-0.7*	3466
ESP	0.0	-0.2	-0.2	-0.2	0.1	-0.0	-0.2	-0.4+	1652
ETH	0.0	0.7	2.2* 0.3+	0.0	-2.0*	-0.2	0.5	0.1	1246 2602
GEO	0.0	0.2+	0.3+	0.2	0.0	1.1*	-0.0	0.2+	2602
GHA	0.0	0.3+	0.8*	0.7*	0.6*	0.5+	0.3	0.1	2602
HUN	0.0	0.1	-0.3	-0.3	0.1	0.1	-0.0	-0.5+	952
IDN	0.0 0.0	-0.0	0.0	-0.2	1.0*	0.5+ -0.5*	-0.0	0.1 0.4*	2459
IND	0.0	0.2*	-0.2*	0.6*	0.4*	-0.5*	-0.3*	0.4*	6931
IRN	0.0 0.0	-0.5*	-0.7*	-0.2	0.1	-1.0+	-0.7*	-0.2+ -0.7*	2208
IRQ	0.0	-0.6+	-0.6	-0.7	-0.3	-0.8+	-1.0*	-0.7*	1233
ITA	0.0	-0.5+	-0.0	-0.4+	-0.7*	-0.6*	-0.9*	-0.3	639
JOR	0.0	-0.1 -0.5*	-0.2	0.2	0.0	-0.2 -0.6+	0.1	-0.2	2137
KAZ	0.0	-0.5*	-0.4	-0.0	0.1	-0.6+	-0.3+	-0.6*	1497
KGZ	0.0	-0.2+	-0.6*	-0.5*	-0.3	-0.1	0.3+	-0.6*	2427
KWT	0.0 0.0	1.7* -0.6+	0.5	0.2 -0.5+	0.1 -0.3	1.3*	1.2*	0.8* -0.7+	953 898
LBN LTU	0.0	-0.6+ 1.0	-0.6+ 0.1	-0.5+ 0.2	0.2	-0.4 -0.4	-0.4 0.4+	-0.7+ 0.5+	889
LVA	0.0	-0.0	0.1	-0.2	-0.2	-0.4	-0.7*	-0.7*	1119
MAR	0.0 0.0	-0.0	-0.4	-0.1	-0.2	-0.3 -0.2	-0.0	-0.4	888
MDA	0.0	0.3*	0.4*	0.3+	0.5*	-3.0*	0.5*	0.4*	2740
MEX	0.0	0.2+	0.1	0.5+	0.2	0.1	0.3	-0.1	3782
MKD	0.0 0.0	0.9*	-0.1	-0.2	-0.1	0.1	0.1 1.4*	-0.0	3782 1600
MYS	0.0	0.1	-0.0	0.2	0.4	-0.2	0.2	-0.2	1559
NGA	0.0	-0.0	-0.6	-0.2	-0.2	-0.4	0.2 -0.1	-0.3	1559 4628
NZL	0.0		0.2	0.4	0.0	-0.1	-0.1		625
PAK	0.0	0.0	0.5+				0.4	0.5*	1131
PER	0.0	-0.1	-0.4	0.1 -0.5	0.2	0.3 -0.2	0.6* -0.0	-0.3	1122 2343
PHL		0.0		-0.5	0.2	-0.2	-0.0	0.1	2343
POL	0.0	-0.1	0.0	0.2	-0.4*	-0.0	-0.1	-0.3+	2683
ROU	0.0	0.0	0.0	-0.5*	-0.1	-0.4*	0.0	0.3*	3966
RUS	0.0 0.0	0.5*	0.5*	0.5*	0.5*	0.3*	0.5*	0.5*	3999
RWA	0.0	-0.3	-1.3*	-1.0+	-0.8	-1.2*	-0.8	-0.5	2432
SRB	0.0	0.2	0.0	0.1	-0.0	0.4*	0.2	-0.5*	3128
SVN	0.0	0.1	0.3*	0.4*	0.2	0.2	0.1	-0.3	1896
SWE	0.0	-0.7*	-0.0	0.2	0.0	0.0	0.0 0.7*	-0.0	1888
THA	0.0	0.2*	0.3*	0.0	-0.2	0.0	0.7*	0.1	2387
TUN	0.0	-0.7	-0.5	-0.7	-0.4	0.0	0.0	0.1	901
UKR	0.0	0.4*	0.1	0.3*	0.0	-0.2	-0.0	-0.1	3593
URY	0.0	0.2	0.2	0.4+	0.5*	0.3	2.1*	0.2	2511
USA	0.0	-0.2	-0.1	-0.1	-0.1	-0.4*	-0.3+	-0.4*	3493
UZB	0.0 0.0	0.3* 1.3	0.5+ -1.6	0.4 -1.2	-0.1	-0.3 -1.2	0.2	-0.1	1407
VEN					-1.0		-1.6+	-0.7	1111
VNM ZAF	0.0	0.2	0.1	0.6*	-0.1 0.4*	1.1*	0.0 0.4*	-0.3	2330 5575
ZWE	0.0 0.0	-0.3+ -0.0	0.3+ 0.4	0.2 -0.3	0.4	0.2 0.1	0.4	0.1 0.1	1492
* n<0.05 + n<0.1: robust std err	0.0	-0.0	0.4	-0.5	0.1	0.1	0.5	0.1	1434

* p<0.05, + p<0.1; robust std err

Table 18: exT-2

Table 19: .

	-10	10-50k	50-500k	500k-	N
ALB	0.0	-0.4*	-0.2	0.5*	1582
ARG	0.0	0.1	-0.3	-0.0	855
AUS	0.0	0.1	0.0	-0.0	3728
AZE	0.0	0.1	-0.0	0.3*	964
BFA	0.0	-0.0	0.3	-0.2	567
BGD	0.0	-0.2*	0.1	0.6*	2104
BGR	0.0	-0.0	-0.1	-0.5*	1229
BLR	0.0	0.0	-0.1	-0.1	2815
BRA	0.0	-0.3*	-0.5*	-0.6*	3576
CAN	0.0	-0.1	-0.1+	-0.3*	3177
CHL	0.0	0.6+	-0.7*	-0.7*	3527
CHN	0.0	-0.3	-0.4	-0.7	2005
COL	0.0	0.1	0.0	-0.1	1376
DEU	0.0	-0.2*	-0.0	0.0	4795
DZA	0.0	0.3+	0.0	-0.0	1596
ECU	0.0	-0.7*	-0.7*	-0.5+	1182
EGY	0.0	-0.2	0.1	-0.8*	3428
ESP	0.0	-0.1	-0.0	-0.1	1487
ETH	0.0	-1.4+	0.1	0.1	1017
GEO	0.0	-0.0	0.1	0.0	2401
GHA	0.0	0.2+	0.1	-0.1	2572
HUN	0.0		-0.1	-0.4*	887
		0.0			
IDN	0.0	0.3*	0.2	0.1	2056
IND	0.0	0.5*	-0.4*	0.4*	5857
IRN	0.0	0.3	-0.5*	0.0	2119
IRQ	0.0	0.3+	-0.3*	-0.0	1123
ITA	0.0	-0.2	-0.3+	0.0	585
JOR	0.0	0.2*	-0.0	-0.2	2089
KAZ	0.0	0.2	-0.1	-0.3*	1497
KGZ	0.0	-0.1	0.2	-0.3*	2293
LBN	0.0	0.3+	0.1	0.2	731
LTU	0.0	0.3	0.3	0.2	750
LVA	0.0	-0.1	-0.4*	-0.7*	963
MAR	0.0	0.1	0.2	-0.1	845
MDA	0.0	0.2+	0.2	0.1	2478
MEX	0.0	-0.0	-0.1	-0.2+	3544
MKD	0.0	-0.3+	0.1	0.0	1385
MYS	0.0	0.2	0.0	-0.4*	1541
NGA	0.0	0.2	0.0 0.2+	0.1	4488
NZL			-0.1	0.1	417
	0.0	0.0		0.2	900
PAK	0.0	0.1	0.2		
PER	0.0	0.1	0.5*	-0.5	1026
PHL	0.0	0.4	0.4	0.5	2294
POL	0.0	-0.2	-0.1	-0.2	1533
ROU	0.0	-0.3*	-0.2*	0.3*	3568
RUS	0.0	0.1	0.1	0.2+	3253
RWA	0.0	-0.1	-0.2*	0.1	2398
SRB	0.0	0.0	0.2*	-0.4*	2539
SVN	0.0	0.3*	-0.1	-0.3	1620
SWE	0.0	0.2	0.1	0.1	1769
THA	0.0	-0.1	0.2	0.0	2178
TUN	0.0	-0.1			826
UKR	0.0	0.1	0.0	-0.1	2985
URY	0.0	0.3*	0.1	0.1	2017
USA	0.0	0.0	-0.1	-0.2*	3372
UZB	0.0	-0.1	0.0	-0.2*	1247
VEN	0.0	-0.2	-0.7+	0.1	1034
VNM	0.0	0.3*		-1.4*	2039
ZAF			0.2		
	0.0 0.0	0.2+ -0.2	0.1 0.1	-0.0 0.0	5330 1487
ZWE					

Table 20: exT4-3

Table 21: .

	-5	5-500k	500k-	N
ALB	0.0	-0.4*	0.4+	1582
ARG	0.0	-0.2	-0.0	855
AUS	0.0	-0.0	-0.1	3728
AZE	0.0	-0.1	0.3	964
BFA	0.0	0.3	0.0	567
BGD	0.0	0.0	0.7*	2104
BGR	0.0	-0.0	-0.5*	1229
BLR	0.0	-0.1	-0.1	2815
BRA	0.0	-0.2	-0.4*	3576
CAN	0.0	-0.1+	-0.3*	3177
CHL	0.0	-0.7*	-0.7*	3527
CHN		0.0	-0.4*	2005
COL		0.0	-0.1	1376
DEU	0.0	-0.1	0.0	4795
DZA	0.0	-0.4*	-0.6	1596
ECU	0.0	-0.9*	-0.7*	1182
EGY	0.0	-0.4*	-1.1*	3428
ESP	0.0	-0.1	-0.1	1487
ETH	0.0	0.3	0.4	1017
GEO	0.0	0.1	0.1	2401
GHA	0.0	0.3*	-0.0	2572
HUN	0.0	0.0	-0.4*	887
IDN	0.0	0.1	-0.0	2056
IND	0.0	-0.0	0.3*	5857
IRN	0.0	-0.3*	-0.0	2119
IRQ	0.0	-0.1	-0.0	1123
ITA	0.0	-0.1	0.2	585
JOR	0.0	0.1	-0.2	2089
KAZ	0.0	-0.0	-0.3*	1497
KGZ	0.0	-0.1	-0.3*	2293
LBN	0.0	0.1	0.2	731
LTU	0.0	0.3	0.3	750 063
LVA MAR	0.0	-0.1	-0.6* -0.2	963
MDA	0.0 0.0	0.0 0.2*		845 2478
MEX	0.0	-0.1	0.2 -0.2+	3544
MKD	0.0	-0.1	-0.2+ -0.1	1385
MYS	0.0	0.1	-0.1*	1541
NGA	0.0	-0.1	-0.4	4488
NZL	0.0	-0.1	-0.1	417
PAK	0.0	0.4+	0.3	900
PER	0.0	0.3*	-0.5	1026
PHL	0.0	0.4	0.5	2294
POL	0.0	-0.1	-0.1	1533
ROU	0.0	-0.2*	0.3*	3568
RUS	0.0	0.2*	0.2*	3253
RWA	0.0	-0.7*	-0.4+	2398
SRB	0.0	0.1	-0.4*	2539
SVN	0.0	0.2+	-0.2	1620
SWE	0.0	0.2	0.2	1769
THA	0.0	0.1	0.1	2178
TUN	0.0	0.1		826
UKR	0.0	0.0	-0.1	2985
URY	0.0	0.2	0.1	2017
USA	0.0	-0.1	-0.2*	3372
UZB	0.0	0.0	-0.3*	1247
VEN	0.0	-1.7*	-1.2*	1034
VNM	0.0	0.1	-1.5*	2039
ZAF	0.0	0.2*	0.0	5330
ZWE	0.0	0.1	0.2	1487
* p<0.05, + p<0.1; robust std err				

Table 22: exT3-3

Table 23: .

ARG 0.0 0.6+ 0.0 0.0 0.0 0.0 0.0 0.0		-2k	2-5k	5-10k	10-20k	20-50k	50-100k	100-500k	500k-	N
ARG 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	A I D									
AUS		0.0	0.2	-0.5	-0.0	-0.4	-0.5 0.1	0.0	0.4	955
AZE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		0.0		0.0	0.0	0.5	-0.1 0.1	-0.5	0.1	3728
BGC	A7F	0.0		-0.2	-0.2	0.0	-0.1	-0.0	0.1	964
BGC	RFA	0.0	0.3	0.5	0.1	0.5	0.8		0.3	567
BGR	BGD			-0.6*	-1.0*	-0.8*	-0.5*	-0.6*	-0.0	
BRA							-0.1		-0.3±	
BRA	BLR	0.0	0.1	-0.3	0.5	-0.0	0.1	-0.1		2815
CAN			-0.6±	-0.2	-0.6+		-0.7*	-0.1		3576
CHIL (CHN (DA)		0.0				-0.2	-0.7*		-0.4*	
CHN COL 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0					0.1	1 1*	-0.3	-0.3		
COL OCU OCU OCU OCU OCU OCU OCU	CHN	0.0	0.0	0.0	0.1	-0.4	-0.4	-0.3	-0.7	2005
DZA 0.0 1.6* -0.6* -0.2 -0.1 -1.0* -1.3* -0.8* -1.0* -0.8* -1.0* -0.9* -0.8* -1.0* -1.3* -0.8* -1.0* -0.9* -0.8* -1.0* -1.3* -0.8* -1.0* -1.3* -0.8* -1.0* -1.0* -1.3* -0.8* -1.0* -0.9* -0.8* -1.0* -1.3* -0.8* -1.0* -0.9* -0.8* -1.0* -1.3* -0.8* -1.0* -0.8* -1.0* -1.0* -1.3* -0.8* -1.0* -0.8* -1.0* -1.3* -0.8* -1.0* -0.3* -0.2 -0.2 -0.3 -0.4 -0.3+ -0.	COL			0.0	0.5	-0.0	0.2	-0.1	-0.1	1376
DZA 0.0 1.6* -0.6* -0.2 -0.1 -1.0* -1.3* -0.8* -1.0* -0.8* -1.0* -0.9* -0.8* -1.0* -1.3* -0.8* -1.0* -0.9* -0.8* -1.0* -1.3* -0.8* -1.0* -1.3* -0.8* -1.0* -1.0* -1.3* -0.8* -1.0* -0.9* -0.8* -1.0* -1.3* -0.8* -1.0* -0.9* -0.8* -1.0* -1.3* -0.8* -1.0* -0.8* -1.0* -1.0* -1.3* -0.8* -1.0* -0.8* -1.0* -1.3* -0.8* -1.0* -0.3* -0.2 -0.2 -0.3 -0.4 -0.3+ -0.		0.0	-0.0	-0.0	-0.2+	-0.2*	-0.1	-0.1	-0.0	4795
ECU 0.0 -0.0 -1.0 -1.3* -0.8* -1.0* -0.9* -0.8* 1182 ESP 0.0 0.4 -0.1 -0.2 -0.2 0.3 -0.4 -0.8* 3428 ESP 0.0 -0.4+ -0.4 -0.4* -0.4* -0.2 -0.2 -0.3+ -0.3+ 1487 ETH 0.0 -0.3 2.3* 0.2 -2.0* -0.2 -0.3+ -0.3+ 1487 ETH 0.0 -0.3 2.3* 0.2 -2.0* -0.2 0.4 0.2 1017 ECO 0.0 0.1 0.2 0.1 -0.0 0.8* 0.0 0.1 2401 EVEN 0.0 0.1 0.2 0.1 -0.0 0.8* 0.0 0.1 2401 EVEN 0.0 0.1 0.2 0.1 -0.0 0.8* 0.0 0.1 2401 EVEN 0.0 0.1 0.2 0.1 -0.0 0.8* 0.0 0.1 2401 EVEN 0.0 0.1 0.2 0.1 0.0 0.8* 0.0 0.1 0.1 2401 EVEN 0.0 0.1 0.2 0.3 -0.1 0.4 0.2 0.1 -0.1 0.2 0.5* EVEN 0.0 0.0 0.1 0.2 0.3 -0.1 0.4 0.2 0.1 -0.1 0.1 0.2 0.5* EVEN 0.0 0.0 0.1 0.2* 0.0* 0.0* 0.0 0.4* 0.0 0.1 0.2 0.1 0.1 0.2 0.1 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2			1.6*		-0.2	-0.1	-0.4	-0.4+		
EGY 0.0 0.4 -0.1 -0.2 -0.2 0.3 -0.4 -0.8* 3428 ESP 0.0 -0.4+ -0.4 -0.4 -0.2 -0.2 -0.3 + -0.3+ 1487 ETH 0.0 -0.3 2.3* 0.2 -2.0* -0.2 -0.3 + -0.3+ 1487 ETH 0.0 0.3 2.3* 0.2 -2.0* -0.2 0.4 0.2 -0.3+ 10.3+ 1487 ETH 0.0 0.0 0.3 2.3* 0.2 -2.0* -0.2 0.4 0.2 0.1 10.1 2401 EGO 0.0 0.0 0.1 0.2 0.0 0.8* 0.0 0.0 0.0 0.0 0.0 0.1 2401 EGO 0.0 0.0 0.1 0.2 0.0 0.8* 0.0 0.0 0.0 0.0 0.1 2401 EGO 0.0 0.0 0.1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 2401 EGO 0.0 0.0 0.1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			-0.0		-1.3*	-0.8*	-1.0*	-0.9*		
ESP	EGY	0.0			-0.2	-0.2	0.3			
ETH 0.0 0.3 2.3** 0.2 0.1 0.0 0.8** 0.0 0.1 1.02 0.1 0.0 0.8** 0.0 0.1 1.02 0.1 0.0 0.8** 0.0 0.1 1.02 0.1 0.0 0.8** 0.0 0.1 1.02 0.1 0.0 0.5** 0.5** 0.5** 0.5** 0.1 0.1 0.2 0.1 0.0 0.1 0.2 0.1 0.1		0.0		-0.4	-0.4*	-0.2	-0.2	-0.3+	-0.3+	
GEO GHA 0.0 0.1 0.2 0.1 0.8 0.6 0.6 0.5 0.5 0.5 0.5 0.1 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.1 0.3 0.4 0.4 0.3 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.5 0.4 0.4 0.5 0.4 0.4 0.5 0.5 0.6 0.6 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.5 0.4 0.4 0.4 0.5 0.4 0.4 0.5 0.6 0.6 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8		0.0		2.3*	0.2	-2.0*	-0.2		0.2	1017
GHA O.0 O.4* O.8* O.6* O.6* O.6* O.5+ O.1 O.0 O.0 O.1 O.2 O.1 O.2 O.1 O.0 O.0 O.2 O.3 O.1 O.4 O.5* O.5* O.4 O.5* O.4 O.5* O.5* O.4 O.5* O.5* O.4 O.5* O.5* O.5* O.4 O.5* O.5* O.5* O.4 O.5* O.5* O.4 O.5* O.5* O.5* O.4 O.5* O.5* O.5* O.5* O.4 O.5* O.5* O.4 O.5* O.5* O.5* O.5* O.5* O.6 O.7 O.7 O.2 O.1 IIVA O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.	GEO	0.0		0.2	0.1	-0.0	0.8*	0.0	0.1	2401
HUN 0.0 0.1 0.2 0.1 0.2 0.1 0.4 0.2 0.1 0.4 0.2 0.1 0.4 0.2 0.1 0.4 0.2 0.1 0.4 0.2 0.1 0.4 0.2 0.1 0.4 0.2 0.1 0.4 0.2 0.1 0.4 0.2 0.4 0.3 0.8 0.8 0.8 0.0 0.0 0.1 0.2 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.6 0.7 0.1 1123 117A 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	GHA	0.0	0.4*	0.8*		0.6*	0.5+	0.3	0.2	2572
IND	HUN	0.0	0.1	0.2	-0.1	0.2	-0.1	0.0	-0.4	887
IND		0.0	-0.2	-0.3	-0.1	0.4	0.2	-0.1	-0.1	2056
IRN		0.0	0.1	-0.2*	0.5*	0.4*	-0.5*	-0.4*	0.3*	
ITA		0.0					-0.9	-0.7*	-0.2	
JOR KAZ 0.0 -0.5* -0.6* -0.3 -0.1 0.2 0.2 -0.2 0.0 -0.2 2089 KAZ 0.0 0.0 -0.5* -0.6* -0.3 -0.1 -0.5+ -0.4* -0.7* 1497 KGZ 0.0 0.0 0.0 -0.5 -0.5 -0.3 -0.2 0.2 0.2 0.2 0.2 0.3* 2293 LBN 0.0 0.0 0.5 -0.5 -0.3 0.1 -0.4 -0.2 -0.2 0.2 731 LTU 0.0 0.6 0.3 0.4 0.3 -0.4 0.4+ 0.3 750 LVA 0.0 0 -0.2 0.3 -0.1 -0.1 -0.3 -0.5+ -0.7* 963 MAR 0.0 0.0 1.1 -0.2 0.0 -0.0 -0.0 0.0 0.0 -0.2 845 MDA MDA 0.0 0.4* 0.5* 0.5* 0.6* 2.9* 0.7* 0.4* 2478 MEX 0.0 0.1 0.0 0.5 -0.0 0.0 0.0 -0.0 0.0 0.0 0.0 0.2 845 MKD MKD 0.0 0.5+ -0.3 -0.6+ -0.1 0.1 1.3* 0.1 1385 MYS 0.0 0.1 0.1 0.0 0.0 -0.0 -0.0 0.1 1.3* 0.1 1385 MYS NGA NGA NGA NGA NO 0.0 0.1 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 PER 0.0 0.0 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 30 PER NO PER 0.0 0.0 0.5 0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 PER 0.0 0.0 0.2 -0.5 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0				0.3	-0.2	-0.4	-0.1	1123
JOR KAZ 0.0 -0.5* -0.6* -0.3 -0.1 0.2 0.2 -0.2 0.0 -0.2 2089 KAZ 0.0 0.0 -0.5* -0.6* -0.3 -0.1 -0.5+ -0.4* -0.7* 1497 KGZ 0.0 0.0 0.0 -0.5 -0.5 -0.3 -0.2 0.2 0.2 0.2 0.2 0.3* 2293 LBN 0.0 0.0 0.5 -0.5 -0.3 0.1 -0.4 -0.2 -0.2 0.2 731 LTU 0.0 0.6 0.3 0.4 0.3 -0.4 0.4+ 0.3 750 LVA 0.0 0 -0.2 0.3 -0.1 -0.1 -0.3 -0.5+ -0.7* 963 MAR 0.0 0.0 1.1 -0.2 0.0 -0.0 -0.0 0.0 0.0 -0.2 845 MDA MDA 0.0 0.4* 0.5* 0.5* 0.6* 2.9* 0.7* 0.4* 2478 MEX 0.0 0.1 0.0 0.5 -0.0 0.0 0.0 -0.0 0.0 0.0 0.0 0.2 845 MKD MKD 0.0 0.5+ -0.3 -0.6+ -0.1 0.1 1.3* 0.1 1385 MYS 0.0 0.1 0.1 0.0 0.0 -0.0 -0.0 0.1 1.3* 0.1 1385 MYS NGA NGA NGA NGA NO 0.0 0.1 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 PER 0.0 0.0 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 30 PER NO PER 0.0 0.0 0.5 0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 PER 0.0 0.0 0.2 -0.5 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ITA	0.0		-0.0	-0.4	-0.5+	-0.5	-0.7*	-0.2	585
KGZ LBN 0.0 -0.5 -0.5 -0.3 0.1 -0.4 -0.2 -0.2 -0.7 731 LTU 0.0 0.6 0.3 0.4 0.3 -0.4 0.4 -0.2 -0.7 731 LTU 0.0 0.0 -0.5 -0.5 -0.3 0.1 -0.1 -0.4 0.4 -0.2 -0.7 963 MAR 0.0 -0.1 -0.2 0.3 -0.1 -0.1 -0.3 -0.5 -0.7 963 MAR 0.0 0 -0.1 -0.2 0.0 -0.0 -0.0 0.0 -0.0 -0.2 845 MEX 0.0 0 0.1 0.0 0.5 0.5 0.6 -2.9 0.7 0.4 2478 MEX 0.0 0.1 0.0 0.5 -0.3 -0.6 -0.0 -0.1 -0.0 -0.1 3544 MKD 0.0 0.5 -0.3 -0.6 -0.1 0.1 -0.1 -0.2 0.3 -0.1 1.385 MYS 0.0 0.1 0.1 0.1 0.2 0.3 -0.1 0.1 1.3 0.1 1385 NGA 0.0 0.5 -0.0 0.3 0.3 -0.1 0.1 0.1 -0.4 1541 NGA NZL 0.0 0 0.5 -0.0 0.3 0.3 0.1 0.1 0.1 -0.4 1541 NZL 0.0 0 0.0 0.5 -0.0 0.3 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 0.0 0.1 0.5 0.0 0.1 0.4 0.4 0.4 0.4 0.4 0.5 0.2 0.4 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0		0.0		-0.1	0.2	0.2	-0.2	0.0	-0.2	2089
LVA MAR 0.0 -0.1 -0.2 0.3 -0.1 -0.1 -0.3 -0.5+ -0.7* 963 MDA 0.0 -0.1 -0.2 0.0 -0.0 -0.0 0.0 -0.0 0.0 -0.2 845 MDA 0.0 0.4* 0.5* 0.5* 0.6* -2.9* 0.7* 0.4* 2478 MEX 0.0 0.1 0.0 0.0 -0.0 -0.1 -0.0 -0.1 -0.0 -0.1 3544 MKD 0.0 0.5+ -0.3 -0.6+ -0.1 0.1 1.3* 0.1 1385 MYS 0.0 0.1 0.1 0.1 0.2 0.3 -0.1 0.1 0.1 -0.4+ 1541 NGA NZL 0.0 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 -0.0 0.3 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 0.0 0.1 0.5 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	KAZ	0.0			-0.3	-0.1	-0.5+	-0.4*	-0.7*	
LVA MAR 0.0 -0.1 -0.2 0.3 -0.1 -0.1 -0.3 -0.5+ -0.7* 963 MDA 0.0 -0.1 -0.2 0.0 -0.0 -0.0 0.0 -0.0 0.0 -0.2 845 MDA 0.0 0.4* 0.5* 0.5* 0.6* -2.9* 0.7* 0.4* 2478 MEX 0.0 0.1 0.0 0.0 -0.0 -0.1 -0.0 -0.1 -0.0 -0.1 3544 MKD 0.0 0.5+ -0.3 -0.6+ -0.1 0.1 1.3* 0.1 1385 MYS 0.0 0.1 0.1 0.1 0.2 0.3 -0.1 0.1 0.1 -0.4+ 1541 NGA NZL 0.0 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 -0.0 0.3 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 0.0 0.1 0.5 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	KGZ	0.0	0.0		-0.2	-0.2	0.2	0.2	-0.3*	
LVA MAR 0.0 -0.1 -0.2 0.3 -0.1 -0.1 -0.3 -0.5+ -0.7* 963 MDA 0.0 -0.1 -0.2 0.0 -0.0 -0.0 0.0 -0.0 0.0 -0.2 845 MDA 0.0 0.4* 0.5* 0.5* 0.6* -2.9* 0.7* 0.4* 2478 MEX 0.0 0.1 0.0 0.0 -0.0 -0.1 -0.0 -0.1 -0.0 -0.1 3544 MKD 0.0 0.5+ -0.3 -0.6+ -0.1 0.1 1.3* 0.1 1385 MYS 0.0 0.1 0.1 0.1 0.2 0.3 -0.1 0.1 0.1 -0.4+ 1541 NGA NZL 0.0 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 -0.0 0.3 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 0.0 0.1 0.5 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0		-0.5	-0.3	0.1	-0.4	-0.2		731
MAR 0.0 -0.1 -0.2 0.0 -0.0 -0.0 -0.2 845 MDA 0.0 0.4* 0.5* 0.6* -2.9* 0.7* 0.4* 2478 MEX 0.0 0.1 0.0 0.0 -0.0 -0.1 -0.0 -0.1 3544 MKD 0.0 0.5* -0.0 0.6* -0.1 0.1 1.3* 0.1 13854 MYS 0.0 0.5* -0.0 0.3 -0.3 0.1 0.1 1.3* 0.1 1.385 MYS 0.0 0.1 0.1 0.2 0.3 0.1 0.1 0.4* 0.4* 0.3 4488 NZL 0.0 0.5 -0.0 0.1 0.0 0.0 0.1 0.0 </td <td></td> <td>0.0</td> <td></td> <td>0.3</td> <td>0.4</td> <td>0.3</td> <td>-0.4</td> <td>0.4+</td> <td>0.3</td> <td>750</td>		0.0		0.3	0.4	0.3	-0.4	0.4+	0.3	750
MDA 0.0 0.4* 0.5* 0.5* 0.6* -2.9* 0.7* 0.4* 2478 MEX 0.0 0.1 0.0 0.0 -0.0 -0.1 -0.0 -0.1 3544 MKD 0.0 0.5+ -0.3 -0.6+ -0.1 0.1 1.3* 0.1 1385 MYS 0.0 0.1 0.1 0.2 0.3 -0.1 0.1 -0.4+ 1541 NGA 0.0 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 0.1 0.5 0.0 0.1 -0.2 0.0 -0.2 0.4 0.3 0.3 90 PER 0.0 0.1 0.5 0.0 0.1 0.4 0.4* -0.6 1026 POL 0.0 -0.1 0.1 -0.1 -0.2 0.0 -0.1 -0.2 2.0 0 -0.1 -0.2 2.05* 0.3 0.4<		0.0		0.3		-0.1	-0.3			963
MEX 0.0 0.1 0.0 0.0 -0.0 -0.1 -0.0 -0.1 3544 MKD 0.0 0.5+ -0.3 -0.6+ -0.1 0.1 1.38* 0.1 1385 MYS 0.0 0.1 0.1 0.2 0.3 -0.1 0.1 -0.4+ 1541 NGA 0.0 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 -0.2 0.0 -0.1 -0.0 -0.2 417 PAK 0.0 0.1 0.5 0.3 0.4 0.4* 0.0 10.6 1026 PHL 0.0 -0.2 0.5 0.0 0.1 0.4 0.4* 0.5 2294 2294 2294 20 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		0.0		-0.2			-0.0	0.0		
MKD MYS 0.0 0.1 0.1 0.1 0.2 0.3 0.3 0.2 0.4 0.4 0.3 4488 NZL 0.0 0.0 0.5 0.0 0.0 0.5 0.0 0.0 0.0 0.0		0.0		0.5*	0.5*		-2.9*	0.7*	0.4*	2478
NGA NZL 0.0 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 -0.2 0.0 -0.1 -0.0 -0.2 2 417 PAK 0.0 0.1 0.5	MICD	0.0		0.0	0.0			-0.0		
NGA NZL 0.0 0.5 -0.0 0.3 0.3 0.2 0.4 0.3 4488 NZL 0.0 -0.2 0.0 -0.1 -0.0 -0.2 2 417 PAK 0.0 0.1 0.5	MYS	0.0	0.5+	-0.3	-0.0+	-0.1	0.1	0.1	0.1	1585
PAK PER O.0 O.0 O.1 O.2 O.5 O.0		0.0	0.1	0.1	0.2		-0.1	0.1	-U.4+ 0.2	1341
PAK PER O.0 O.0 O.1 O.2 O.5 O.0	N7I	0.0	0.5	-0.0	0.3		-0.2 -0.0	-0.4	0.3	4400 417
PHL POL 10.0 -0.1 -0.1 -0.2 -0.7* -0.2 -0.5* -0.0 -0.1 -0.2 -0.5* -0.2 -0.5* -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.5 -0.2 -0.3 -0.4 -0.3 -0.4 -0.3 -0.4 -0.3 -0.4 -0.3 -0.4 -0.3 -0.4 -0.3 -0.3 -0.4 -0.3 -0.3 -0.4 -0.3 -0.3 -0.3 -0.1 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.1 -0.3 -0.3 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1	PAK	0.0	0.1	0.5	0.0	-0.1	-0.0	0.2	0.3	900
PHL POL 10.0 -0.1 -0.1 -0.2 -0.7* -0.2 -0.5* -0.0 -0.1 -0.2 -0.5* -0.2 -0.5* -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.2 -0.5 -0.2 -0.5 -0.2 -0.3 -0.4 -0.3 -0.4 -0.3 -0.4 -0.3 -0.4 -0.3 -0.4 -0.3 -0.4 -0.3 -0.3 -0.4 -0.3 -0.3 -0.4 -0.3 -0.3 -0.3 -0.1 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.1 -0.3 -0.3 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1		0.0	-0.2	-0.5	0.0	0.1	0.4	0.4*	-0.6	
POL	PHL		0.0		-0.2	0.5	0.3	0.4	0.5	2294
ROU	POL	0.0	-0.1	0.1	-0.1	-0.2	0.0	-0.1	-0.2	1533
RWA SRB 0.0 0.2 0.0 0.2 0.0 0.2 0.1 0.3+ 0.3+ 0.3+ 0.3+ 0.3* 2539 SVN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.				-0.2	-0.7*	-0.2	-0.5*	-0.2	0.2	3568
RWA SRB 0.0 0.2 0.0 0.2 0.0 0.2 0.1 0.3+ 0.3+ 0.3+ 0.3+ 0.3* 2539 SVN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	RUS			0.4*	0.3	0.4*	0.3+	0.4*	0.4*	3253
SRB 0.0 0.2 -0.0 0.2 0.1 0.3+ 0.3+ -0.3* 2539 SVN 0.0 -0.0 0.2 0.6* 0.2 -0.0 -0.0 -0.3 1620 SWE 0.0 -0.8* -0.1 0.1 -0.0 -0.1 -0.1 -0.1 1769 THA 0.0 0.3* 0.3* 0.2 -0.2 0.0 1.0* 0.1 2178 TUN 0.0 -0.4 -0.2 -0.4 -0.1 826 0.1 0.1 2985 URY 0.0 0.4* 0.2 0.4* 0.0 0.2 0.1 0.1 2985 URY 0.0 -0.5+ -0.3 -0.1 0.0 -0.3 1.2* -0.3 2017 USA 0.0 -0.2 -0.2 -0.1 -0.1 -0.3* -0.3+ -0.4* 3372 UZB 0.0 0.3* 0.3 0.3 -0.1 -0.5 0.2 -0.2 1247 VEN 0.0 0.1 -0.0	RWA	0.0		-1.6*	-1.2*	-1.1*	-1.4*	-1.1*	-1.0*	2398
SVN 0.0 -0.0 0.2 0.6* 0.2 -0.0 -0.0 -0.3 1620 SWE 0.0 -0.8* -0.1 0.1 -0.0 -0.1 -0.1 -0.1 1769 THA 0.0 0.3* 0.3* 0.2 -0.2 0.0 1.0* 0.1 2178 TUN 0.0 -0.4 -0.2 -0.4 -0.1 826 <	SRB	0.0	0.2	-0.0	0.2	0.1	0.3+	0.3+	-0.3*	2539
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SVN	0.0	-0.0	0.2	0.6*	0.2		-0.0	-0.3	1620
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SWE	0.0	-0.8*	-0.1	0.1	-0.0	-0.1	-0.1	-0.1	1769
TUN 0.0 -0.4 -0.2 -0.4 -0.1 826 UKR 0.0 0.4* 0.2 0.4* 0.0 0.2 0.1 0.1 2985 URY 0.0 -0.5+ -0.3 -0.1 0.0 -0.3 1.2* -0.3 2017 USA 0.0 -0.2 -0.2 -0.1 -0.1 -0.3* -0.3+ -0.4* 3372 UZB 0.0 0.3* 0.3 0.3 -0.1 -0.5 0.2 -0.2 1247 VEN 0.0 1.6 -0.9 -0.2 -0.4 -0.6 -0.9 -0.1 1034 VNM 0.0 0.1 -0.0 0.4+ -0.1 1.0* 0.1 -1.4* 2039 ZAF 0.0 -0.5* 0.3 0.2 0.3+ -0.0 0.3+ -0.0 5330 ZWE 0.0 0.1 0.4+ -0.3 0.2 0.2 0.3+ -0.0 2.3+ -0.0 5330	THA	0.0	0.3*	0.3*	0.2	-0.2				2178
USA 0.0 -0.2 -0.2 -0.1 -0.1 -0.3* -0.3+ -0.4* 3372 UZB 0.0 0.3* 0.3 0.3 -0.1 -0.5 0.2 -0.2 1247 VEN 0.0 1.6 -0.9 -0.2 -0.4 -0.6 -0.9 -0.1 1034 VMM 0.0 0.1 -0.0 0.4+ -0.1 1.0* 0.1 -1.4* 2039 ZAF 0.0 -0.5* 0.3 0.2 0.3+ -0.0 0.3+ -0.0 5330 ZWE 0.0 0.1 0.4+ -0.3 0.2 0.2 0.3+ 0.2 0.3+ 0.2 1487	TUN	0.0		-0.2	-0.4	-0.1				826
USA 0.0 -0.2 -0.2 -0.1 -0.1 -0.3* -0.3+ -0.4* 3372 UZB 0.0 0.3* 0.3 0.3 -0.1 -0.5 0.2 -0.2 1247 VEN 0.0 1.6 -0.9 -0.2 -0.4 -0.6 -0.9 -0.1 1034 VMM 0.0 0.1 -0.0 0.4+ -0.1 1.0* 0.1 -1.4* 2039 ZAF 0.0 -0.5* 0.3 0.2 0.3+ -0.0 0.3+ -0.0 5330 ZWE 0.0 0.1 0.4+ -0.3 0.2 0.2 0.3+ 0.2 0.3+ 0.2 1487	UKR	0.0		0.2	0.4*	0.0	0.2	0.1	0.1	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	URY	0.0		-0.3			-0.3	1.2*		
VEN 0.0 1.6 -0.9 -0.2 -0.4 -0.6 -0.9 -0.1 1034 VMM 0.0 0.1 -0.0 0.4+ -0.1 1.0* 0.1 -1.4* 2039 ZAF 0.0 -0.5* 0.3 0.2 0.3+ -0.0 0.3+ -0.0 5330 ZWE 0.0 0.1 0.4+ -0.3 0.2 0.2 0.3+ 0.2 0.3+ 0.2 1487	USA	0.0					-0.3*	-0.3+	-0.4*	3372
VEN 0.0 1.6 -0.9 -0.2 -0.4 -0.6 -0.9 -0.1 1034 VMM 0.0 0.1 -0.0 0.4+ -0.1 1.0* 0.1 -1.4* 2039 ZAF 0.0 -0.5* 0.3 0.2 0.3+ -0.0 0.3+ -0.0 5330 ZWE 0.0 0.1 0.4+ -0.3 0.2 0.2 0.3+ 0.2 0.3+ 0.2 1487	UZB	0.0		0.3	0.3		-0.5	0.2		1247
VNM 0.0 0.1 -0.0 0.4+ -0.1 1.0* 0.1 -1.4* 2039 ZAF 0.0 -0.5* 0.3 0.2 0.3+ -0.0 0.3+ -0.0 5330 ZWE 0.0 0.1 0.4+ -0.3 0.2 0.2 0.3+ 0.2 1487	VEN	0.0	1.6	-0.9	-0.2	-0.4	-0.6		-0.1	1034
ZWE 0.0 0.1 0.4+ -0.3 0.2 0.2 0.3+ 0.2 1487		0.0			0.4+	-0.1				2039
					0.2	0.3+		0.3+		5330
		0.0	0.1	0.4+	-0.3	0.2	0.2	0.3+	0.2	1487

* p<0.05, + p<0.1; robust std err

Table 24: exT-3

this one should be in appendix: 2 out of 10 again, but not rporting this this is oversaturated and missing most countries

Table 25: .

		F F001	5001	
4.0.0	-5	5-500k	500k-	N
ARG	0.0	-0.0	0.1	845
AUS	0.0	0.0	-0.1	925
AZE	0.0	0.1	0.4*	958
BLR	0.0	-0.3*	-0.0	1254
BRA	0.0	-0.1	-0.4+	1154
CHL	0.0	-0.6*	-0.6*	797
CHN		0.0	-0.2*	1175
COL		0.0	0.0	1353
DEU	0.0	-0.2*	-0.2	1832
DZA	0.0	-0.4+		732
ECU	0.0	-0.9*	-0.8*	1182
GEO	0.0	0.2	0.4*	1157
GHA	0.0	0.2+		1434
IND	0.0	0.0	-0.4	2507
IRQ	0.0	-0.1	-0.2	947
JOŘ	0.0	-0.1		1124
KAZ	0.0	-0.0	-0.3*	1443
KGZ	0.0	-0.1	-0.0	1225
LBN	0.0	0.1	0.2	692
MEX	0.0	-0.1	-0.2+	1811
MYS	0.0	-0.5	-1.4*	390
NGA	0.0	-0.1	0.0	1576
NLD	0.0	-0.7*	-0.5+	1448
NZL	0.0	-0.0		408
PER	0.0	0.3+	-0.7	1018
PHL	0.0	0.6	0.5	1142
POL	0.0	0.0	-0.2	793
ROU	0.0	-0.2	0.0	1323
RUS	0.0	-0.1	0.0	1665
RWA	0.0	-0.6*	-0.4	1251
SVN	0.0	0.2+	-0.4	807
SWE	0.0	0.0	0.1	981
THA	0.0	-0.3*		922
TUN	0.0	0.1		822
UKR	0.0	-0.3*	-0.1	1308
URY	0.0	0.1	0.1	465
UZB	0.0	0.1	-0.1	1179
ZAF	0.0	0.3*		3058
ZWE	0.0	0.2	0.2	1478
* p<0.05. + p<0.1: robust std err				

Table 26: exT3-4

so i think start with exT4-2 clean and easy and simple; then exT-3 to show detail and robustness

TODO meh yeah i guess drop this first table!!! note that all developed countres are less happy in cities, AUS (insiginifacnt but sig in next table (todocheck!)

Table 27: .

	-10	10-50k	50-500k	500k-	N
ALB	0.0	-0.3*	-0.1	-0.0	1864
ARG	0.0	0.2	-0.2	0.1	955
AUŚ	0.0	0.1	-0.1	-0.1	3895
ΧZE	0.0	0.1	-0.2	0.2	995
BFA	0.0	-0.2	0.3	-0.4	636
BGD	0.0	-0.2	0.1	0.9*	2562
BGR	0.0	0.0	0.1	-0.1	1637
BLR	0.0	0.0	-0.0	0.0	3394
BRA	0.0	-0.2	-0.5*	-0.5*	3780
CAN	0.0	-0.2	-0.2*	-0.5*	3320
			-0.2*		
CHL	0.0	0.5	-0.7*	-0.6*	3823
CHN	0.0	0.2	0.3*	0.1	4371
COL	0.0	0.2	0.1	-0.0	4376
DEU	0.0	-0.2*	-0.0	0.0	5137
DZA	0.0	0.3+	0.0	-0.1	1806
CU	0.0	-0.5	-0.6*	-0.5+	1187
GY	0.0	-0.2	-0.0	-0.8*	3466
SP	0.0	0.1	-0.0	-0.2+	1652
TH	0.0	-1.8*	-0.2	-0.4	1246
GEO	0.0	-0.0	0.0	0.1	2602
GHA	0.0	0.3*	0.1	-0.2	2602
HUN	0.0	-0.1	-0.0	-0.6*	952
DN	0.0	-0.1 0.2+	0.1	0.1	2459
ND	0.0		-0.4*	0.5*	
		0.5*			6931
RN	0.0	0.3	-0.5*	0.1	2208
RQ	0.0	0.2	-0.4*	-0.2	1233
TA	0.0	-0.3*	-0.5*	0.0	639
JOR	0.0	0.2*	0.1	-0.1	2137
KAZ	0.0	0.4*	-0.0	-0.3*	1497
KGZ	0.0	-0.3	0.3*	-0.5*	2427
KWT	0.0	-0.4	0.5*	0.1	953
LBN	0.0	0.1	0.1	-0.2	898
LTU	0.0	0.2	0.3	0.5+	889
LVA	0.0	-0.2	-0.5*	-0.7*	1119
MAR	0.0	0.2	0.2	-0.2	888
MDA	0.0	0.1	0.1	0.2	2740
MEX	0.0	0.0	-0.1	-0.3*	3782
MKD MYS	0.0 0.0	-0.3+	0.1	-0.2	1600
	0.0	0.3+	0.1	-0.2	1559
NGA	0.0	0.1	0.1	0.1	4628
NZL	0.0	0.2	-0.2		625
PAK	0.0		0.3	0.4*	1131
PER	0.0	0.2	0.7*	-0.3	1122
PHL	0.0	0.2 -0.2	-0.1	0.1	2343
POL	0.0		-0.0	-0.3+	2683
ROU	0.0	-0.3*	-0.1	0.3*	3966
RUS	0.0	0.2+	0.1	0.2*	3999
RWA	0.0	-0.1	-0.3*	0.3	2432
SRB	0.0	-0.1	0.3*	-0.5*	3128
SVN	0.0	0.2+	0.1	-0.3	1896
SWE	0.0	0.2	0.1	0.1	1888
ГНА	0.0	0.2 -0.2	0.1	0.0	2387
ΓUN	0.0	-0.2	0.1	0.0	901
			-0.2*	-0.2*	
JKR	0.0	0.0			3593
JRY	0.0	0.3*	0.2	0.1	2511
JSA	0.0	0.0	-0.2*	-0.2*	3493
JZB	0.0	-0.0	0.0	-0.3*	1407
√EN	0.0	-0.5	-0.8*	-0.1	1111
VNM	0.0	0.3*	-0.0	-0.5	2330
ZAF	0.0	0.3*	0.3*	0.1	5575
ZWE	0.0	-0.1	0.1	-0.0	1492

p<0.1; robust std err **Table 28:** exT4-2 OLS regressions of swb on place size, controls (not shown) are: enumerate

in atble ?? several appear happier like BGD, IND, LTU, PAK, ROU, and RUS, when adding more controls and full town cat that disappers except for 4 ctrioes

Results in table ?? are remarkable. In most countries large cities are less happy than small settlements. Remarkably, without exception, in no developed country city is happier than smallest areas. The only four countries where people ar ehappier in large cities are:

Table 29: .

	-2k	2-5k	5-10k	10-20k	20-50k	50-100k	100-500k	500k-	N
ALB	0.0	0.2	-0.5*	-0.6*	-0.4*	-0.5*	0.0	0.4*	1582
ARG	0.0	0.6+	-0.0	0.0	0.3	-0.1	-0.3	0.1	855
AUS	0.0	0.0	-0.2	0.1	0.0	-0.1	-0.0	-0.1	3728
AZE	0.0	0.0	-0.5	-0.2	0.3	-0.0	-0.1	0.3	964
BFA	0.0	0.3	0.7+	0.1	0.6+	0.8+	0.8	0.2	567
BGD	0.0	-0.8*	-0.6*	-1.0*	-0.8*	-0.5*	-0.6*	-0.0	2104
BGR	0.0	0.4*	0.3	0.3	0.1	-0.1	0.2	-0.3+	1229
BLR	0.0	0.5*	-0.3	0.1	-0.0	0.1	-0.1	-0.0	2815
BRA	0.0	-0.6+	-0.2	-0.6+	-0.6*	-0.7*	-0.9*	-0.9*	3576
CAN	0.0	-0.1	-0.1	-0.1	-0.2	-0.3*	-0.1	-0.4*	3177
CHL	0.0	+8.0	0.3	0.8	1.1*	-0.2	-0.3	-0.3	3527
CHN			0.0	0.1	-0.4	-0.4	-0.3	-0.7	2005
COL			0.0	0.5	-0.0	0.2	-0.1	-0.1	1376
DEU	0.0	-0.0	-0.0	-0.2+	-0.2*	-0.1	-0.1	-0.0	4795
DZA	0.0	1.6*	-0.6*	-0.2	-0.1	-0.4	-0.4+	-0.5	1596
ECU	0.0	-0.0	-1.0	-1.3*	-0.8*	-1.0*	-0.9*	-0.8*	1182
EGY	0.0	0.4	-0.1	-0.2	-0.2	0.3	-0.4	-0.8*	3428
ESP	0.0	-0.4+	-0.4	-0.4*	-0.2	-0.2	-0.3+	-0.3+	1487
ETH	0.0	-0.3	2.3*	0.2	-2.0*	-0.2	0.4	0.2	1017
GEO	0.0	0.1	0.2	0.1	-0.0	0.8*	0.0	0.1	2401
GHA	0.0	0.4*	0.8*	0.6*	0.6*	0.5+	0.3	0.2	2572
HUN	0.0	0.1	0.2	-0.1	0.2	-0.1	0.0	-0.4	887
IDN	0.0	-0.2	-0.3	-0.1	0.4	0.2	-0.1	-0.1	2056
IND	0.0	0.1	-0.2*	0.5*	0.4*	-0.5*	-0.4*	0.3*	5857
IRN	0.0	-0.4*	-0.5*	-0.1	0.2	-0.9	-0.7*	-0.2	2119
IRQ	0.0	-0.0	-1.0	-0.4	0.3	-0.2	-0.4	-0.1	1123
ITA	0.0	-0.5+	-0.0	-0.4	-0.5+	-0.5	-0.7*	-0.2	585
JOR	0.0	-0.0	-0.1	0.2	0.2	-0.2	0.0	-0.2	2089
KAZ	0.0	-0.5*	-0.6*	-0.3	-0.1	-0.5+	-0.4*	-0.7*	1497
KGZ	0.0	0.0	-0.3	-0.2	-0.2	0.2	0.2	-0.3*	2293
LBN	0.0	-0.5	-0.5	-0.3	0.1	-0.4	-0.2	-0.2	731
LTÜ	0.0	0.6	0.3	0.4	0.3	-0.4	0.4+	0.3	750
LVA	0.0	-0.2	0.3	-0.1	-0.1	-0.3	-0.5+	-0.7*	963
MAR	0.0	-0.1	-0.2	0.0	-0.0	-0.0	0.0	-0.2	845
MDA	0.0	0.4*	0.5*	0.5*	0.6*	-2.9*	0.7*	0.4*	2478
MEX	0.0	0.1	0.0	0.0	-0.0	-0.1	-0.0	-0.1	3544
MKD	0.0	0.5+	-0.3	-0.6+	-0.1	0.1	1.3*	0.1	1385
MYS	0.0	0.1	0.1	0.2	0.3	-0.1	0.1	-0.4+	1541
NGA	0.0	0.5	-0.0	0.3	0.3	0.2	0.4	0.3	4488
NZL	0.0		-0.2	0.0	-0.1	-0.0	-0.2		417
PAK	0.0	0.1	0.5				0.3	0.3	900
PER	0.0	-0.2	-0.5	0.0	0.1	0.4	0.4*	-0.6	1026
PHL		0.0		-0.2	0.5	0.3	0.4	0.5	2294
POL	0.0	-0.1	0.1	-0.1	-0.2	0.0	-0.1	-0.2	1533
ROU	0.0	-0.1	-0.2	-0.7*	-0.2	-0.5*	-0.2	0.2	3568
RUS	0.0	0.5*	0.4*	0.3	0.4*	0.3+	0.4*	0.4*	3253
RWA	0.0	-0.7	-1.6*	-1.2*	-1.1*	-1.4*	-1.1*	-1.0*	2398
SRB	0.0	0.2	-0.0	0.2	0.1	0.3+	0.3+	-0.3*	2539
SVN	0.0	-0.0	0.2	0.6*	0.2	-0.0	-0.0	-0.3	1620
SWE	0.0	-0.8*	-0.1	0.1	-0.0	-0.1	-0.1	-0.1	1769
THA	0.0	0.3*	0.3*	0.2	-0.2	0.0	1.0*	0.1	2178
TUN	0.0	-0.4	-0.2	-0.4	-0.1				826
UKR	0.0	0.4*	0.2	0.4*	0.0	0.2	0.1	0.1	2985
URY	0.0	-0.5+	-0.3	-0.1	0.0	-0.3	1.2*	-0.3	2017
USA	0.0	-0.2	-0.2	-0.1	-0.1	-0.3*	-0.3+	-0.4*	3372
UZB	0.0	0.3*	0.3	0.3	-0.1	-0.5	0.2	-0.2	1247
VEN	0.0	1.6	-0.9	-0.2	-0.4	-0.6	-0.9	-0.1	1034
VNM	0.0	0.1	-0.0	0.4+	-0.1	1.0*	0.1	-1.4*	2039
ZAF	0.0	-0.5*	0.3	0.2	0.3+	-0.0	0.3+	-0.0	5330
ZWE	0.0	0.1	0.4+	-0.3	0.2	0.2	0.3+	0.2	1487
*** p<0.001, ** p<0.01, * p<0.05, +									
p<0.1; robust std err									

Table 30: exT-3; note robustness chech results are in SOM.

and tehre is even one more elaborate model#4 in app with satfin and crime like about **todo count lol** 20/70 neg of all and nly 4/18 of sig are pos about 80 perc are neg :) or 5/21 in exT4-3

and the point is that the only ones that are sig and positive are wiers small poor and most miserable countries except india which is a big puzzle

TODO repreat it multiple times! **TODO** add **NOR NLD** so the conclusion is that in all develped countries AUS, CAN, DEU, ESP, ITA, NZL, SWE, USA, cities are less happy ²¹ in vast majority of countries effect in ngeative, only positive in these 4: russia, moldova and albania are all post soviet countries, they are likely to still be very centralized where power opportunity and resources are located in large cities; india is clearly an outlier here and we dont have a good explanation [blind for peer review]

The limitation of X049 is not only a low top bin for largest cities (500k+), but also about a thrird of values missing. Future research can focus on specific countries using other data or WVS data using X049CS variable, which has country specific sizes of places, which

²¹at least in less elaborate specs, but even in most elaborate even if insig, still neg

however are not directly or easily comparable—bins differ across countries and in some cases place is names "major city", "Farm / Mountain / Fishing village," etc).

show distributuion of place size by country!

3.1.1 original 8 categories

3.1.2 0-5k v 500k+

yeah this is following berry, but better have 0-5 so that more obs lol

3.2 Crime and Cost of Living/financial satisfaction

missing obs but here as a robustness check

TO WHERE I HAVE WE NEED TO CONTROL FOR CRIME: Urban unhappiness is not only due to urban problems such as crime and poverty. Cities themselves, their core defining characteristics, size and density, are related to unhappiness (Okulicz-Kozaryn and Mazelis 2016).

yeh so one limitation is lack of crime; so bias on results cities wiuld be happier otherwhise

Table 31: .

	-10	10-50k	50-500k	500k-	N
ARG	0.0	0.2	-0.1	0.2	845
AUS	0.0	0.1	0.1	-0.1	925
AZE	0.0	0.3	0.2	0.4*	958
BLR	0.0	-0.2	-0.1	0.1	1254
BRA	0.0	-0.2	-0.2	-0.5*	1154
CHL	0.0	0.8*	-0.7*	-0.5*	797
CHN			0.0	-0.2*	1175
COL	0.0	0.1	0.1	0.1	1353
DEU	0.0	-0.2*	-0.0	-0.1	1832
DZA	0.0	0.2	0.1	0.2	732
ECU	0.0	-0.7*	-0.7*	-0.5*	1182
GEO	0.0	0.1	0.1	0.3*	1157
GHA	0.0	0.1	-0.2	0.5	1434
IND	0.0	0.2*	-0.2*	-0.4	2507
IRQ	0.0	0.1	-0.3 -0.2+	-0.2	947
JOR	0.0	0.1	-0.2	-0.2	1124
KAZ	0.0	0.2	-0.2	-0.2+	1443
KGZ	0.0	0.0	-0.1	0.0	1225
LBN	0.0	0.3+	-0.1	0.0	692
MEX	0.0	-0.1	-0.1	-0.2	1811
MYS	0.0	0.4	0.1	-0.2*	390
NGA	0.0	0.4	0.0	0.3	1576
NLD	0.0	0.4	0.4	0.5	1448
NZL	0.0	0.4	0.4	0.5	408
PER	0.0	0.1	0.0	-0.7	1018
PHL	0.0	0.2	0.6	0.5	1142
POL	0.0	0.4	0.0	-0.2	793
ROU	0.0	-0.1	-0.2	0.1	1323
RUS	0.0	-0.1	0.0	0.1	1665
RWA	0.0	-0.2	-0.1	0.1	1251
SVN	0.0	0.4*	-0.1	-0.5	807
SWE	0.0	0.4	0.0	0.1	981
THA	0.0	-0.5*	-0.3	0.1	901
TUN	0.0	0.0	-0.3		922 822
			0.0*	0.1	
UKR	0.0	-0.2	-0.3*	-0.1	1308
URY	0.0	0.2	-0.2	0.1	465
UZB	0.0	-0.0	0.1	-0.1	1179
ZAF	0.0	0.2	0.1	0.1	3058
ZWE	0.0	0.1	0.0	0.1	1478
* p $<$ 0.05, + p $<$ 0.1; robust std err					

Table 32: exT4-4

Table 33: .

	-5	5-500k	500k-	N
ARG	0.0	-0.0	0.1	845
AUS	0.0	0.0	-0.1	925
AZE	0.0	0.1	0.4*	958
BLR	0.0	-0.3*	-0.0	1254
BRA	0.0	-0.1	-0.4+	1154
CHL	0.0	-0.6*	-0.6*	797
CHN		0.0	-0.2*	1175
COL		0.0	0.0	1353
DEU	0.0	-0.2*	-0.2	1832
DZA	0.0	-0.4+		732
ECU	0.0	-0.9*	-0.8*	1182
GEO	0.0	0.2	0.4*	1157
GHA	0.0	0.2+		1434
IND	0.0	0.0	-0.4	2507
IRQ	0.0	-0.1	-0.2	947
JOŘ	0.0	-0.1		1124
KAZ	0.0	-0.0	-0.3*	1443
KGZ	0.0	-0.1	-0.0	1225
LBN	0.0	0.1	0.2	692
MEX	0.0	-0.1	-0.2+	1811
MYS	0.0	-0.5	-1.4*	390
NGA	0.0	-0.1	0.0	1576
NLD	0.0	-0.7*	-0.5+	1448
NZL	0.0	-0.0		408
PER	0.0	0.3+	-0.7	1018
PHL	0.0	0.6	0.5	1142
POL	0.0	0.0	-0.2	793
ROU	0.0	-0.2	0.0	1323
RUS	0.0	-0.1	0.0	1665
RWA	0.0	-0.6*	-0.4	1251
SVN	0.0	0.2+	-0.4	807
SWE	0.0	0.0	0.1	981
THA	0.0	-0.3*	•	922
TUN	0.0	0.1		822
UKR	0.0	-0.3*	-0.1	1308
URY	0.0	0.1	0.1	465
UZB	0.0	0.1	-0.1	1179
ZAF	0.0	0.3*	J. 2	3058
ZWE	0.0	0.2	0.2	1478
* p<0.05, + p<0.1; robust std err	0.0			
p < 0.00, p < 0.1, 100005t 3td CII				

Table 34: exT3-4

Table 35: .

	01	0.51	F 101	10.001	00 50	FO 100I	100 500	E001	N
ARG	-2k 0.0	2-5k	5-10k	10-20k	20-50k	50-100k	100-500k	500k-	N 845
	0.0	0.6 0.0	0.0 -0.2	0.2 0.2	0.3 -0.0	0.0 0.0	-0.1 0.1	0.2 -0.1	925
AUS AZE	0.0	-0.1	-0.2 -0.4	-0.3		0.0	-0.0	-0.1 0.4+	925 958
	0.0	-0.1 -0.4	-0.4 -1.2*		0.5	-0.2			
BLR				-0.2	-0.3+		-0.2+	-0.0	1254
BRA	0.0	-0.5	-0.2	-0.4	-0.6+	-0.2	-0.7*	-0.8*	1154
CHL	0.0	0.8	-0.0	1.0+	1.1*	-0.5	-0.3	-0.2	797
CHN			0.0	0.2	0.1	0.0	0.0	-0.2*	1175
COL			0.0	0.3	-0.1	0.2	-0.0	0.0	1353
DEU	0.0	0.1	-0.1	-0.2	-0.3*	-0.2	0.0	-0.1	1832
DZA	0.0		-0.6*	-0.1	-0.3	-0.4	-0.2		732
ECU	0.0	-0.2	-1.0	-1.3*	-0.9*	-1.1*	-1.0*	-0.9*	1182
GEO	0.0	-0.1	0.3	0.4	-0.0	0.7	0.1	0.3*	1157
GHA	0.0	-0.1	0.2	0.1	0.2	-0.1	0.1		1434
IND	0.0	-0.2+	-0.2	0.2*	-0.6*	-0.5*	-0.2	-0.4	2507
IRQ		0.0			0.1	-0.3	-0.2	-0.2	947
JOR	0.0	0.1	-0.1	0.1	-0.0	-0.3			1124
KAZ	0.0	-0.5*	-0.5*	-0.1	-0.2	-0.5	-0.4*	-0.6*	1443
KGZ	0.0	-0.1	-0.2	-0.1	0.1		-0.2	-0.0	1225
LBN	0.0	-0.3	-0.4	-0.2	0.5	-0.3	-0.2	0.0	692
MEX	0.0	0.1	-0.1	0.0	-0.2	-0.1	-0.1	-0.2	1811
MYS	0.0	-0.8	-1.7+	-0.7	-0.9	-1.1	-1.1	-1.9*	390
NGA	0.0	0.4	-0.0	0.6+	0.3	0.1	0.2	0.4	1576
NLD		0.0	-1.2*	-0.6*	-0.6*	-0.7*	-0.6*	-0.5+	1448
NZL	0.0		-0.1	0.1	-0.1	0.0	-0.0		408
PER	0.0	-0.1	-0.5	0.1	0.1	0.3	0.4*	-0.7	1018
PHL		0.0	0.1	-1.2	0.4	0.7	0.6	0.5	1142
POL	0.0	-0.1	0.1	0.7+	-0.2	0.2	-0.0	-0.2	793
ROU	0.0	-0.6	-0.6	-0.9*	-0.4	-1.0*	-0.7+	-0.5	1323
RUS	0.0	0.5*	-0.0	-0.1	-0.1	0.3	0.1	0.2	1665
RWA		0.0	-0.9*	-0.6*	-0.5*	-0.7*	-0.5*	-0.3	1251
SVN	0.0	0.4*	0.3+	1.0*	0.4+	0.5	0.0	-0.4	807
SWE	0.0	-1.4*	-0.3	-0.0	-0.1	-0.2	-0.2	-0.2	981
THA	0.0	0.2	-0.1	-0.1	-0.6*	-0.2	-1.2*		922
TUN	0.0	0.4	0.4	0.4	0.4				822
UKR	0.0	0.2	-0.1	-0.3	-0.1	-0.3	-0.2	-0.0	1308
URY	0.0	-1.6*	-1.3*	-1.0+	-1.1+	-1.5*	-0.4	-1.2*	465
UZB	0.0	0.3*	0.2	0.3	-0.0	-0.5	0.3*	0.0	1179
ZAF	0.0	-0.3	0.5+	0.2	0.2	0.1			3058
ZWE	0.0	0.2	0.4+	-0.1	0.5*	0.2	0.2	0.3	1478
* p<0.05, + p<0.1; robust std err									

Table 36: exT-4

4 !!!PLAYING DROP THIS LATER

Table 37: .

	-10	10-50k	50-500k	500k-	N
ALB	0.0	-0.3*	-0.1	0.0	1864
AND	0.0	-0.2			931
ARG	0.0	0.2	-0.2	0.1	955
ARM	0.0	-0.2	-0.2	0.5	1057
AUS	0.0	0.1	-0.0	-0.0	3895
AZE	0.0	0.1	-0.2	0.2	995
BFA	0.0	-0.2	0.3	-0.4	636
BGD	0.0	0.1	0.3*	0.8*	2562
BGR	0.0	0.0	0.1	-0.1	1637
BIH	0.0	-0.6*	0.2*		2190
BLR	0.0	0.2+	0.1	-0.1	3394
BRA	0.0	-0.2	-0.5*	-0.6*	3780
CAN	0.0	-0.2	-0.2*	-0.4*	3320
CHE	0.0	-0.2	-0.0		926
CHL	0.0	0.5	-0.7*	-0.6*	3823
CHN	0.0	0.3*	0.4*	0.2	4371
COL	0.0	0.2	0.1	0.0	4376
CYP	0.0	-0.1	-0.0	-0.7	1931
DEU	0.0	-0.1*	-0.0	0.1	5137
DOM	0.0	1.5+	0.9	0.4	321
DZA	0.0	0.1	-0.1	-0.4	1806
ECU	0.0	-0.5	-0.6*	-0.5+	1187
EGY	0.0	-0.3*	0.1	-0.9*	3466
ESP	0.0	0.1	-0.0	-0.3+	1652
EST	0.0	-0.3+	-0.5*		1428
ETH	0.0	-1.8*	-0.2	-0.4	1246
GEO	0.0	0.1	0.0	0.1	2602
GHA	0.0	0.3*	0.1	-0.1	2602
HTI	0.0	-0.0	0.0	0.7	1584
HUN	0.0	-0.1	-0.0	-0.6*	952
IDN	0.0	0.2+	0.1	0.1	2459
IND	0.0	0.6*	-0.2*	0.3*	6931
IRN	0.0	0.3	-0.5*	0.1	2208
IRQ	0.0	0.6*	-0.0	0.0	1233
ITA	0.0	-0.3*	-0.5*	0.0	639
JOR	0.0	0.3*	-0.2	-0.4*	2137
KAZ	0.0	0.4*	-0.0	-0.3*	1497
KGZ	0.0	-0.3	0.3*	-0.5*	2427
KWT	0.0	-0.4	0.5*	0.1	953
LBN	0.0	0.1	0.1	-0.2	898
LBY	0.0	-0.3*	-0.5*	1.2*	1880
LTU	0.0	0.2	0.3	0.5+	889
LVA	0.0	-0.2	-0.5*	-0.7*	1119
MAR	0.0	0.2	0.1	0.6*	888
MDA	0.0	0.3*	-0.3	0.4*	2740
MEX	0.0	0.1	-0.2*	-0.3*	3782
MKD	0.0	-0.3*	0.0	-0.2	1600
MLI	0.0	2.2*	0.9	1.6+	82
MNE	0.0	0.1	0.5*	1.0⊤	939
MYS	0.0	0.3*	0.1	-0.2	1559
NGA	0.0	-0.0	0.1	0.0	4628
NLD	0.0	0.3	0.1	0.4	1581
NOR	0.0	-0.1	-0.1	0.4	1830
NZL	0.0	0.2	-0.1		625
PAK	0.0	0.2	0.3	0.4*	1131
PER	0.0	0.2	0.5*	-0.3	1122
PHL	0.0	-0.2	-0.4	-0.3 -0.2	2343
POL	0.0	-0.2	-0.4	-0.2 -0.2+	2683
PRI	0.0	0.0	-0.1	-0.2	1669
ROU	0.0	-0.2*	-0.3*	0.3*	3966
RUS	0.0	0.1	0.1	0.2*	3999
RWA	0.0	-0.1	-0.3*	0.3	2432
SAU	0.0	-0.1	0.0	0.5*	1311
SRB	0.0	-0.0	0.3*	-0.5*	3128
SVK	0.0	0.0	0.5	-0.5	902
SVN	0.0	0.0+	0.1	-0.3	1896
SWE	0.0	0.2+	0.1	0.1	1888
THA	0.0	-0.1	0.1	-0.0	2387
TTO	0.0	0.1	0.1	-0.0	957
TUN	0.0	0.2 -0.1			901
TWN	0.0	0.3	0.3	0.2	2914
UKR	0.0	-0.1	-0.4*	-0.4*	3593
URY	0.0	0.1	-0.4	-0.4	2511
USA	0.0	0.0	-0.2	-0.1	3493
UZB	0.0	-0.0	0.0	-0.2	1407
VEN	0.0	-0.5	-0.8*	-0.1	1111
VNM	0.0	0.3*	-0.3	-0.1	2330
YEM	0.0	1.3	-0.3 1.7*	1.3*	567
ZAF	0.0	0.2+	0.2+	0.0	5575
ZMB	0.0	0.47	0.47	0.0	1013
ZWE	0.0	-0.1	0.1	-0.0	1492
* p<0.05, + p<0.1; robust std err	0.0	V.1	0.1	0.0	1174
p \ 0.00, \ \ p \ 0.1, IODUSE SEU EII					

Table 38: ex1

Table 39: .

	-5	5-500k	500k-	N
ALB	0.0	-0.3*	-0.0	1864
AND	0.0	-0.1		931
ARG	0.0	-0.2	-0.0	955
ARM AUS	0.0 0.0	0.0 -0.1	0.6 -0.1	1057 3895
AZE	0.0	-0.2	0.1	995
BFA	0.0	0.3	-0.0	636
BGD	0.0	0.2*	0.8*	2562
BGR	0.0	0.0	-0.1	1637
BIH	0.0	-0.3*		2190
BLR	0.0	0.1	-0.1	3394
BRA	0.0	0.0	-0.2	3780
CAN CHE	0.0	-0.2* -0.4*	-0.5*	3320 926
CHL	0.0	-0.5+	-0.5	3823
CHN	0.0	0.5*	0.3*	4371
COL	0.0	0.0	-0.1	4376
CYP	0.0	-0.1	-0.7	1931
DEU	0.0	-0.0	0.1	5137
DOM	0.0	0.5	0.0	321
DZA	0.0	-0.5*	-0.9*	1806
ECU	0.0	-1.0*	-0.8*	1187
EGY ESP	0.0 0.0	-0.7* -0.0	-1.4* -0.3+	3466 1652
EST	0.0	-0.0*	0.5	1428
ETH	0.0	0.0	-0.2	1246
GEO	0.0	0.1	0.2	2602
GHA	0.0	0.3*	-0.1	2602
HTI	0.0	-0.0	0.7	1584
HUN	0.0	-0.1	-0.6*	952
IDN	0.0	0.1 0.0	0.1	2459
IND IRN	0.0	-0.4*	0.2+ -0.0	6931 2208
IRQ	0.0	0.1	0.0	1233
ITA	0.0	-0.2	0.1	639
JOR	0.0	0.1	-0.4+	2137
KAZ	0.0	0.1	-0.3*	1497
KGZ	0.0	-0.1	-0.5*	2427
KWT	0.0	0.3	0.2	953
LBN LBY	0.0	-0.0 -0.5*	-0.3 0.9	898 1880
LTU	0.0 0.0	0.2	0.9 0.5+	889
LVA	0.0	-0.3+	-0.7*	1119
MAR	0.0	-0.1	0.4*	888
MDA	0.0	0.2*	0.5*	2740
MEX	0.0	-0.0	-0.3*	3782
MKD	0.0	-0.2+	-0.3+	1600
MLI	0.0	1.7*	1.7+	82
MNE	0.0	0.3*	0.0	939
MYS NGA	0.0	0.1 -0.3*	-0.2 -0.3*	1559 4628
NLD	0.0	-1.3*	-1.1*	1581
NOR	0.0	-0.1	-1.1	1830
NZL	0.0	0.0		625
PAK	0.0	0.5*	0.5*	1131
PER	0.0	0.5*	-0.3	1122
PHL	0.0	-0.3	-0.2	2343
POL PRI	0.0	-0.1 0.0	-0.2+	2683 1669
ROU	0.0	-0.1+	0.3*	3966
RUS	0.0	0.1	0.3*	3999
RWA	0.0	-0.8*	-0.3	2432
SAU		0.0	0.5*	1311
SRB SVK	0.0	0.1	-0.5*	3128
SVK	0.0	-0.1		902
SVN	0.0	0.2*	-0.3	1896
SWE	0.0	0.2 0.1	0.2 0.0	1888
THA TTO	0.0 0.0	0.1	0.0	2387 957
TUN	0.0	0.1		901
TWN		0.0	-0.2+	2914
UKR	0.0	-0.2*	-0.4*	3593
URY	0.0	0.1	-0.1	2511
USA	0.0	-0.0	-0.2	3493
UZB	0.0	0.1	-0.3+ 1.6*	1407
VEN VNM	0.0 0.0	-2.2* 0.1	-1.6* -0.9*	1111
YEM	0.0	0.1 -0.1	1.2*	2330 567
ZAF	0.0	0.2*	0.0	5575
ZMB		J. <u>L</u>	0.0	1013
ZWE	0.0	0.2	0.1	1492
* p<0.05, + p<0.1; robust std err				

Table 40: ex1

4.1 very first results

Table ?? shows resuls of regression of SWB on place size dummies (controlling for year dummies), which essentially differences in means for each size category. Results are mixed, but large cities (500k-) and even medium sized (100-500k) are often happier than the

smallest category (the base case or reference category, -2k). Usually differences are small to moderate, about .5 (on 1-10 SWB scale), but sometimes large, larger than 1. Do mention the extremes and think about why—but we do not have explanation for those.

This is what the literature reports, tht results are mixed, in some cases cities are happier, in some cases they are not. A key finding of this study is that once we properly control for key predictors of SWB, almost uniformly large cities (500k-) are less happy than the smallest settlements (-2k). Results are shown in the body in table 39.

Results in table ?? are remarkable. In most countries large cities are less happy than small settlements. Remarkably, in no developed country city is happier than smallest areas (with exception of KWT and SAU-these are middle eastern and oil rich, where cities are glorious indeed)—and they are not developed countries according to IMF or UN anyway neither have very high HDI.