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. We use the World Values Survey cumulative dataset 1981-2020 from www.worldvaluessurvey.org. In all developed countries, without exception, we find that city dwellers are not happier than rural residents.

Happiness, Life Satisfaction, Subjective Wellbeing (SWB), Cities, Urbanicity, Urban-Rural, Urban-Rural Gradient, World Values Survey (WVS)

Research by Berry and Okulicz-Kozaryn (2011) provided evidence of an "urban-rural gradient" in many countries, where happiness levels rise from lowest in the largest cities to highest in the smallest places. The gradient is non-linear—the very largest cities are markedly less happy than all other areas in a country, e.g.: 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 a uniform set of measures. This study shows, for the first time, that city unhappiness is common across the world.

Subjective wellbeing (SWB) 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. The life satisfaction is mostly cognitive and not affective—a respondent evaluates her life as whole globally (professional, personal, family, community, etc.) (Diener 2009). Following usual practice, for simplicity, we use these terms interchangeably: SWB, happiness, and life satisfaction, but we mostly refer to life satisfaction as defined above.

The SWB measure is at least adequately reliable, valid, and considered acceptable for public policy making and public administration (Diener 2009, Stiglitz et al. 2009). It is also used frequently in urban research (e.g., Moeinaddini et al. 2020, Mouratidis 2019, Wang et al. 2019, Mouratidis 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 different 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.

Most research on the urbanicity-happiness relationship points to an urban-rural happiness gradient, where happiness raises from its lowest level in the largest cities, to the highest level in the

smallest rural areas (e.g., Campbell et al. 1976, Berry and Okulicz-Kozaryn 2011, Okulicz-Kozaryn and Mazelis 2016, Okulicz-Kozaryn and Valente 2020). 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. (2010) and Burger et al. (2020).

There are multiple problems with the Gallup data used by Easterlin et al. (2010) and Burger et al. (2020). First, the Gallup data is not meant for research but for commerce—Gallup charges \$30,000 (per year) for data access (authors' inquiry). Second, the urbanicity classification is twice less precise than that in the World Values Survey (WVS) used in the present study: 4 versus 8 categories. Third, while the WVS uses precise population size with numeric cutoffs, Gallup uses fuzzy concepts such as "rural area," "small town or village," and "large city." Fourth, 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" v "village" and so forth. The WVS uses interviewer's information about the place. Fifth, apparently much of the data are missing—Easterlin et al. (2010) notes that in 14 countries "rural area" responses were exceptionally low. About half of the world population is rural, but in Burger et al. (2020) only about a quarter of respondents are of rural residence. Hence, the present study is the first to analyze the urban—rural happiness gradient across countries using a suitable and accurate dataset.

Data And Model

We use the World Values Survey cumulative file 1981-2020 from www.worldvaluessurvey.org, which is representative of about 90% of the world population,² and as elaborated in the previous section, is much better suited for the study than an inadequate and poorly designed Gallup survey. The variables are listed in table 1. Country codes and descriptive statistics are in the Supplementary Online Material (SOM).

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," objective and recorded by the interviewer, not the respondent. There are eight categories ranging from '<2k' to '>500k.' This is an important advantage, because urbanicity or urbanness is a continuum, not a binary urban versus rural dichotomy. We conduct the analysis using a set of dummy variables for all eight categories (leaving out the base case) in the SOM. For simplicity and ease of exposition, however, we present simplified results in the body of the paper using three categories only. Thus, please refer to the SOM for 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 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

¹Easterlin et al. (2010) acknowledge Gallup's limitations and attempts to address them. Burger et al. (2020), on the other hand, does not.

²While 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).

the natural human habitat and are mostly consisting of man-made objects such as asphalt, concrete, glass, etc., and accordingly are likely to be the least happy.

The classification into large cities versus natural areas produces a third category in between for places with a population size of 5–500k. The two cutoffs are driven by theory. It would be a gross oversimplification to use an urban–rural dichotomy with one cutoff, for example, '<100k' vs. '>100k' (or any other value). A place never changes abruptly from rural to urban at some cutoff—it is a continuum—although it can be simplified to carefully chosen extreme categories, one must always start with the continuum. Since this aggregation or simplification into 3 categories is still somewhat arbitrary, we present our alternative aggregations in SOM in addition to the full 8-step urbanness gradient.

Table 1: Variable definitions.

name	description
happiness	'All things considered, how satisfied are you with your life as a whole these days?'
	1='dissatisfied' to 10='satisfied'
place size	'OBSERVATIONS BY THE INTERVIEWER; Code size of town where interview
	was conducted'
year survey	year of survey
age	age
age2	age squared
male	male
married or living together	married or living together as married
as 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	'For each of the following aspects, indicate how important it is in your life. Would
	you say it is: Religion'
autonomy	'Autonomy index'
freedom	'Some people feel they have completely free choice and control over their lives,
	while other 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). Table 1 lists the control variables used in the body of the paper and there are specific controls worth discussing. Young, single, 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 not only predict greater SWB, but are also confounded with and higher in cities.³

One great advantage of city life that is often forgotten is freedom (Park et al. [1925] 1984), 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).

 $^{^3}$ Simply comparing unadjusted means may result in oversimplified or biased research claiming that people are happier in cities (e.g., Burger et al. 2020)—there is confounding of urbanicity with higher income, education and class—see SOM for tables with and without controls.

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 tradeoff in this study between ease of presentation and elaboration as there are dozens of countries and presenting elaborated specifications would result in unwieldy presentation—additional specifications are in the SOM. Here we just present one model that is our full model. It includes all necessary and some additional controls (yet, not over-saturated where too many controls would result in collinearity and many missing observations)—we use here models with controls listed in table 1. The model presented here uses 3 urbanicity categories, <5k (base), 5k-500k, and >500k. Results are set in Table 2. We are interested in the comparison between <5k vs. >500k because places larger than several hundred thousand are the most unnatural environment for humans as compared to natural environments, where our species has evolved.

	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
$_{\mathrm{BGD}}$	0.0	0.7*	2,104
$_{\rm BGR}$	-0.0	-0.5*	1,229
$_{\mathrm{BLR}}$	-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*	3,527
CHN	0.0	-0.4*	2,005
COL	0.0	-0.4	1,376
DEU	-0.1	0.0	4,795
DZA	-0.4*	-0.6	1,596
	-0.4*		
ECU		-0.7*	1,182
EGY	-0.4*	-1.1*	3,428
ESP	-0.1	-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
ITA	-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	845
MDA	0.2*	0.2	2,478
MEX	-0.1	-0.2+	3,544
MKD	-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
		-0.4+ -0.4*	2,539 2.539
SRB	0.1		
SVN SWE	0.2+	-0.2	1,620
	$0.2 \\ 0.1$	0.2	1,769
THA		0.1	$2{,}178$ 826
TUN	0.1	-0.1	$\frac{826}{2,985}$
UKR	$0.0 \\ 0.2$		
URY		0.1	2,017
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 controlling for predictors of SWB listed in table 1.

The results in table 2 show that in 80% of countries with significant happiness differences across urbanicity, 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,⁴ NZL, SWE, and the USA, people in the largest areas have lower happiness levels than those in smaller areas.⁵

This finding is important because it contradicts a common belief that emerged recently, possibly due to ideological reasons (e.g., Glaeser 2011, Glaeser et al. 2016, Burger et al. 2020), claiming that urban areas are happier. 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.

The urban-rural gradient is greatest in EGY, VEN,⁶ and VNM where the effect sizes are larger than 1, while the effect sizes for most other places are small to moderate, around .3 to .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 (5-500k), the majority of the results are negative with only 5 countries yielding a positive result: GHA, MDA, PER, RUS, and ZAF—reiteratively, what is remarkable is that none of these countries are considered developed.

In the vast majority of countries, the results show a negative effect, and are only positive in East European Post Soviet (ALB, ROU, and RUS), and South-Asian countries (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 (for some discussion see Deb 2020). 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 the common pro-urbanism and city triumphalism claim (e.g., Glaeser 2011). One would think that cities are the best places to live as people flock there in doves. Thus, a finding showing no difference for many cases is already surprising.

Even though coefficient estimates are small to moderate, the practical significance of the results is very strong because of the sheer size of urbanization. Even a minuscule negative effect of .1 (on a scale 1-10) on a large place versus a smaller place for a small country of 10 million people translates into an effect equivalent of making 100 thousand people go from the most miserable to the most happy level on the SWB scale 1-10. 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 basic necessities such as shelter, food, water, sanitation, and healthcare. In developed countries, even the smallest places have reasonable access to necessities, and small places 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 Wirth (1938), Simmel (1903), Lederbogen

⁴Results for NLD are only in SOM.

⁵At least in less elaborate specifications shown in the SOM, but even in the most elaborate specifications, even when the coefficient on larger places is insignificant, it is still negative.

⁶Note: result for VEN should be interpreted with caution—this is the main difference with table exT4-3 in SOM 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.

et al. (2011), cities can be useful for human wellbeing at the early stage of a country's economic development.

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

Descriptive Statistics

code	name
ALB	Albania
ARG	Argentina
AUS	Australia
AZE	Azerbaijan
$_{\mathrm{BFA}}$	BurkinaFaso
$_{\mathrm{BGD}}$	Bangladesh
$_{\mathrm{BGR}}$	Bulgaria
BLR	Belarus
BOL	Bolivia
BRA	Brazil
$_{\rm CAN}$	Canada
$_{\mathrm{CHL}}$	Chile
CHN	China
COL	Colombia
DEU	
	Germany
DZA	Algeria
ECU	Ecuador
EGY	Egypt
ESP	Spain
ETH	Ethiopia
FRA	France
GEO	Georgia
GHA	Ghana
GRC	Greece
$_{ m GTM}$	Guatemala
HRV	Croatia
HUN	Hungary
IDN	Indonesia
IND	India
IRN	Iran
$_{ m IRQ}$	Iraq
ITA	Italy
JOR	Jordan
KAZ	Kazakhstan
KGZ	
	Kyrgyzstan
KWT	Kuwait
$_{ m LBN}$	Lebanon
$_{ m LTU}$	Lithuania
LVA	Latvia
MAR	Morocco
MDA	Moldova
MEX	Mexico
MKD	NorthMacedonia
MYS	Malaysia
NGA	Nigeria
NLD	Netherlands
NOR	Norway
NZL	NewZealand
PAK	Pakistan
PER	Peru
$_{\mathrm{PHL}}$	Philippines
POL	Poland
ROU	Romania
RUS	Russia
RWA	Rwanda
SRB	Serbia
	10 01 10 101
SVN	Slovenia
SWE	Sweden
$_{\mathrm{THA}}$	Thailand
TJK	Tajikistan
TUN	Tunisia
TUR	Turkey
UKR	Ukraine
URY	Uruguay
$\overline{\text{USA}}$	UnitedStates
UZB	Uzbekistan
VEN	Venezuela
VNM	Vietnam
ZAF	SouthAfrica
ZWE	Zimbabwe

Table 3: Country codes.

Some countries were dropped if data were missing on major categories. If there were less than 30 observations on both collectively 2 smallest categories or on top category a country was dropped.

code	T 1	T 2	Т 3	T 4	T 5	T 6	T 7	T 8
ALB	743	235	198	74	187	195	201	134
ARG	261	120	80	140	142	160	254	2880 2681
AUS	404	420	440	469	698	621	779	2681
AZE	164	232	65	46 331 371	$\frac{61}{342}$	82 128	80 30 289	272
BFA	60	124	271	331	342	128	30	169
BGD	60 437	1498	781	371	397	223	280	156
BGR	400		103	133	178	247	209	318
BLR	500 917	$\frac{246}{111}$	61	$\frac{155}{252}$	$\frac{178}{251}$	$\frac{247}{160}$	348 1063	812
	917	111	61	232	201	100	1005	012
BOL	423	30	101	71	254	109	378	701
BRA CAN	$72 \\ 1321$	301	340	71 539 372	835 410	109 852 762	378 1740 693	701 2814 1145
CAN	1321	490	537	372	410	762	693	1145
CHL	141	43	9	23	110	702	3466	2206
CHN	$\frac{141}{237}$	274	126	23 373	1812	1999	2139	2568 1940
COL	16	48	225	358	1053	910	1476	1940
DEU	784	825	645	1279	1373	601	1147	996
DZA	784 190	7	364	278	456	544	549	92
ECU	50	132	$\frac{364}{127}$	144	$\frac{456}{179}$	544 301	549 916	92 553
EGY	119	362	1464	1143	1149	504	313	1072
ESP	307	328	365	451	133	362	946	729
ESP ETH	98	328 108	$\frac{365}{360}$	$\frac{431}{291}$	433 207	362 691	904	71
FRA	246	50	39	49 1	47	85	67	387
FRA GEO	240 740	82 442	$\frac{39}{138}$	48 151	100	85 49	309	387 682
CIIA	142	$\frac{442}{1541}$	$\frac{138}{238}$	191	189 374	120	309	004
GHA	159	1541		242	374	139	156	237
GRC GTM	307 98 246 742 159 290 263	30	50	50 77	150	140	50	440
GTM	263	121	92	77	321	151	201	977
HRV HUN	$\frac{2}{375}$ 153	181	4	141	8	104	127	215
HUN	153	$\frac{320}{1204}$	73 1270 1421	189	216	171	223 304	312 1203 1238 1737
IDN	801	1204	1270	796	426	211	304	1203
IND	801 2965 439	2368	1421	1234	987 261 184	211 834 176	1171	1238
IRN	439	384	295	140	261	176	542	1737
IRQ	84	467	73	182	184	85	449	1117
ITA	70	148	135	176	131	124	100	128
IOB	310	489	459	356	676	286	200	754
JOR KAZ	503	449	173	$\frac{356}{225}$	676 193	95	299 702	646
KGZ	310 293 983 114	958	459 173 373	194	168	141	231	695
KWT	114	61	10	70	22	6	207	462
LBN	20	$\frac{61}{265}$	$\frac{19}{336}$	70 336	23 529	$\frac{6}{275}$	297 153	101
LDN	80	200	330	330	329	270	100	191
LTU	$\frac{324}{373}$	12	48	114	66	30	252	163
LVA MAR	373	$\frac{24}{270}$	57	81 474	101	108	57 293	399
MAR	700 1196 475 300	270	292	474	$100 \\ 214$	51	293	921
MDA MEX MKD	700	906	370	202	214	20	261	$\frac{365}{2764}$
MEX	1196	1129	749	653	697	566	1686	2764
MKD	475	253	163	60 282	326	$\frac{566}{343}$	48 735	382
MYS	300	503	269	282	314	276	735	241
NGA	318 308 529	804	669	658 182 251	1044	1123	1774	1428 187 1935
NZL	308	0	270	182	152	190	516	187
PAK	529	1124	566	251	62	10	516 251	1935
PER	590	137	60	108	175 590	339 430	1070	131
PHL	350	295	210	105	590	430	1000	620
POL	590 350 1097	173	111	168	212	277	629	343
ROU	819	1203	568	411	487	482	629 1326	468
RUS	819 1166	600	541	417	784	461	1810	$\frac{468}{2532}$
RUS RWA	15	76	92	128	410	1620	634	50
SRB	601	76 508	92 580	128 316	487 784 419 606 226	758	634 544	732
SVN	$691 \\ 1520$	$\frac{308}{475}$	$\frac{380}{240}$	140	226	738 78	$\frac{544}{278}$	
O V I V	1020			149	220	10		118
SWE	123	56	91	166	377	545	762	766
THA	2450	613	389	164	190	93	45	153
TJK	360	370	80	70	90	90	30	110
TUN	73	468	669	429	251	252	191	80
TUR	96	12	84	48	264	230	1273	408
UKR	962	527	178	327	294	305	806	912
URY	99	129	118	229	493	328	1	1336
USA	410	352	357	636	960	746	972	1168
UZB	500	440	40	40	60	20	260	140
VEN	20	40	172	192	242	$\frac{1}{242}$	484	1008
VNM	$\frac{20}{63}$	708	736	784	190	94	966	154
ZAF	3912	218	194	258	269	238	390	987
ZWE	470	687	317	86	183	$\frac{230}{422}$	323	$\frac{367}{227}$
2112	410	001	011	00	100	722	020	221

^{*} p<0.05, + p<0.1; robust std err

Table 4: Counts by 8 urbanicity categories on X049.

Limitations

We do not use the Gallup dataset. Some may argue that this is a limitation because Gallup covers more countries than the WVS. However, given that the Gallup data cost tens of thousands of dollars, we cannot afford it. In fact, we'd discourage scientists from paying from their tax money to private corporations to do research. Therefore, we actually consider it an advantage not to use the Gallup dataset. Still, many world countries are missing, and using more waves of WVS data in the future as they become available would contribute significantly to the literature.

A limitation is that many countries covered by the WVS were not included as a result of not having many people in the smallest or the largest areas. In addition, cross cultural comparability is a caveat. Hence, 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 societies. Similarly, cities around the world are very different. The breadth of the study is accompanied by oversimplification. Some research in this area claims that urban-rural differentials might be country-specific and not be generalizable at all.

Again, 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 the 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 (Okulicz-Kozaryn 2015).

The limitation of X049 is not only a low top cutoff for the largest cities (500k+), but also the fact that about a third of values are missing. Future research can focus on specific countries using other data or WVS data using the X049CS variable, which has country specific sizes of places, which however are not directly or easily comparable—bins differ across countries and in some cases have unique place names (e.g., 'major city", "Farm/Mountain/Fishing village").

Cities in Developing Countries

Cities can be actually useful for human wellbeing at the early stage of a country's development. Figure 1 and 2 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, people in cities are less happy.

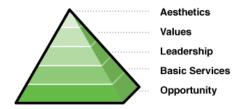


Figure 1: Place Pyramid, (Florida 2008, p 294).

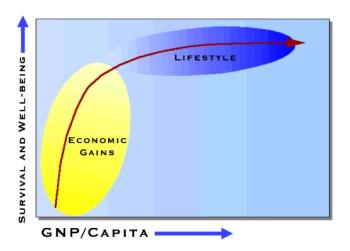


Figure 2: Well-being and income, (Inglehart 1997).

Urbanicity Definition and Operationalization: Alternative Models

We have three different operationalizations of urbanicity: the original 8 categories, and categories collapsed in 2 alternative ways. There are 4 sets of models: bivariate (with year dummies), essentially the mean difference between categories; 2) basic set of controls, necessary/important ones; 3) full/extended (the one reported in the body of the manuscript); and 4) over-saturated models, with many observations missing.

The models are presented in the tables below, where the coding is as follows: T# is the type of setup: T is the original 8 categories on the urbanicity variable; T3 is three categories, and T4 is four categories. The number after the dash (-#) denotes the elaboration of the model: -1 only includes the urbanicity variable and year dummies

- -2 adds age, gender, marital status, education, income, social class, and health
- -3 adds materialism, religiosity, autonomy, freedom and trust
- -4 adds crime and financial satisfaction

	-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
AUS	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
BOL	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
CHL	0.0	0.3	-0.2	-0.2	6657
CHN	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
ECU	0.0	-0.2	-0.1	0.0	2400
EGY	0.0	-0.2+	-0.1	-0.5*	6120
ESP	0.0	-0.0	-0.1	-0.2+	3898
ETH	0.0	-0.5*	0.1 0.3+	$0.1 \\ 0.1$	2719
FRA GEO	0.0	0.0	0.5*	0.1	1000 2676
		0.0	0.5*	0.5*	
GHA GRC	0.0		0.7**	-0.4*	3080 1200
		0.0	0.2		
GTM HRV	0.0	0.6* 0.1	-0.1	0.3* 0.3	$\frac{2202}{1152}$
HUN	0.0	0.0	0.1	0.1	1649
IDN	0.0	0.0*	0.4*	0.3*	6092
IND	0.0	0.6*	0.4	0.5*	11971
IRN	0.0	0.0	-0.3*	0.0	3973
IRQ	0.0	0.2	-0.1	0.2+	2631
ITA	0.0	-0.0	-0.1	0.1	1006
JOR	0.0	0.2*	-0.0	0.1	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
LTU	0.0	0.5+	0.6*	0.6*	996
LVA	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	0.3*	0.2	2882
THA	0.0	0.2 -0.1	-0.1	-0.7*	4086
TJK TUN	0.0	-0.1 0.1	-0.2	-0.1 -0.8*	1200
	0.0	0.1	0.0 0.9*		2405 2405
TUR UKR	0.0	0.7**	0.9	1.0* 0.0	2405 4169
URY	0.0	0.2+	-0.0	0.0	2717
USA	0.0	-0.0	-0.0*	-0.3*	5586
UZB	0.0	-0.0	-0.2+	-0.3*	1493
VEN	0.0	-0.2	-0.2+ -0.2	0.1	2385
VNM	0.0	0.4*	0.5	0.0	3674
ZAF	0.0	0.4*	1.2*	1.1*	6448
ZWE	0.0	0.3	0.2	0.2	2714
* p<0.05, + p<0.1;					

Table 5: exT4-1

ALB ARG 0.0 0.1 -0.1 -0.1 4010 AUS 0.0 0.1 -0.1 -0.1 4010 AUS 0.0 -0.1 -0.1 -0.1 4010 AUS 0.0 -0.1 -0.1 -0.1 4010 AUS 0.0 -0.1 -0.1 -0.1 -0.1 4010 AUS 0.0 -0.1 -0.0 -0.1 -0.1 -0.0 -0.1 -0.0 -0.1 -0.1 -0.0 -0.1 -0.1 -0.0 -0.1 -0.1 -0.1 -0.5 -0.3 -0.1 -0.1 -0.1 -0.5 -0.3 -0.1 -0.1 -0.1 -0.5 -0.1 -0.1 -0.1 -0.5 -0.1 -0.1 -0.1 -0.5 -0.1 -0.1 -0.1 -0.1 -0.2 -0.1 -0.1 -0.1 -0.2 -0.3 -0.1 -0.2 -0.3 -0.1 -0.2 -0.3 -0.1 -0.		-5	5-500k	500k-	N
ARG AUS 0.0 -0.1 -0.1 -0.1 6466 AZE 0.0 -0.4* 0.3 1002 BFA 0.0 -0.1+ 1.5* 4106 BGR 0.0 0.1+ 1.5* 4106 BGR 0.0 0.1- 1.1 2058 BBLR 0.0 0.1 0.1 0.1 0.0* 462 CAN 0.0 0.1 0.1 0.1 0.5* 5720 CHL 0.0 0.1 0.1 0.1 6657 CHN 0.0 0.5* 0.3* 9407 CCOL 0.0 0.1 0.1 0.1 6625 DEU 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	ALB				
AZE BFA 0.0 0.0 0.1 1-1.0 0.0 1421 BGD 0.0 0.1 1-1.5* 4106 BGR 0.0 0.0 0.1+ 1.5* 4106 BGR 0.0 0.0 0.1+ 1.5* 4106 BGR 0.0 0.0 0.1- 0.5* 3603 BOL 0.0 0.0 0.1 0.1 0.1 0.05* 5720 CAN 0.0 0.0 0.1* 0.1* 0.05* 5720 CHL 0.0 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 CHN 0.0 0.0 0.1 0.1 0.1 6625 CBC COL 0.0 0.1 0.1 0.1 0.0 0.2 0.4 2433 ECU 0.0 0.0 0.1 0.0 0.2 0.4 2433 ECU 0.0 0.0 0.1 0.0 0.2 0.4 2433 ECU 0.0 0.0 0.1 0.0 0.2 0.4 2433 ECU ESP 0.0 0.0 0.1 0.0 0.2 0.3 2719 EFH 0.0 0.0 0.2 0.3 2719 EFRA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	ARG				
BFA 0.0 0.0 0.1+ 1.5* 4106 BGR 0.0 0.0 0.7* 0.9* 2014 BLR 0.0 0.0 0.4* 0.5* 3603 BOL 0.0 0.0 0.1- 1.0.1 2058 BRA 0.0 0.1 1.0.0 1.1 2058 BRA 0.0 0.1 1.0.0 1.1 2058 BRA 0.0 0.1 1.0.0 1.1 2058 BRA 0.0 0.1 1.0.0 1.0.1 2058 BRA 0.0 0.1 1.0.1 2058 BRA 0.0 0.1 1.0.0 1.0.1 6657 CHL 0.0 0.0 0.1 0.1 0.1 6657 CHN 0.0 0.5* 0.3* 9407 COL 0.0 0.0 0.1 0.1 0.1 6025 DZA 0.0 0.0 0.1 0.1 0.0 ECU 0.0 0.0 0.1 0.1 0.0 ECY 0.0 0.0 0.1 0.1 0.0 EGY 0.0 0.0 0.1 0.1 0.0 ESP 0.0 0.0 0.1 0.1 0.2* 3898 BETH 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0			-0.1		
BGD 0.0 0.1+ 1.5* 4 106 BCR 0.0 0.7* 0.9* 2014 BLR 0.0 0.4* 0.5* 3603 BOL 0.0 -0.1 0.1 2058 BOL 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 CHN 0.0 0.1 0.1 6657 CHN 0.0 0.1 0.1 6657 CHN 0.0 0.0 -0.0 -0.0 7625 CHN 0.0 0.0 0.0 0.0 0.0 20 DZA 0.0 0.0 0.0 0.0 2433 9479 ECU 0.0 0.0 0.0 0.0 3232799 898 ETH 0.0 0.0 0.0 0.3 2719					
BGR 0.0 0.7* 0.9* 3603 BBLR 0.0 0.0 0.4* 0.5* 3603 BBA 0.0 0.0 0.1 0.0 0.7* 0.9* 3603 BBA 0.0 0.0 0.1 0.0 0.7* 0.25* 5720 CHL 0.0 0.0 0.1 0.1 0.1 0.655 0.3* 9407 COL 0.0 0.1 0.1 0.1 0.1 0.6657 COL 0.0 0.1 0.1 0.1 0.1 0.625 DEU 0.0 0.0 0.1 0.1 0.1 0.1 0.2 0.4 0.2 0.4 0.3 0.2 0.4 0.0 0.2 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0					
BLR BOL 0.0 0.4* 0.5* 3603 BRA 0.0 0.1 1.0.1 2.058 BRA 0.0 0.1 1.0.1 2.058 BRA 0.0 0.1 1.0.1 1.0.1 2.058 BRA 0.0 0.0 0.1 1.0.0 1.0.0 1.0.7 2.0.7 2.0.1					
BOL			0.7*		
BRA O.0 O.1 O.1 O.1 O.1 O.1 O.1 O.1					
CAN CHL 0.0 CHL 0.0 CHL 0.0 CHN 0.0 COL 0.0 COL 0.0 COL 0.0 0.1 COL 0.0 COL 0.0 0.1 COL 0.0 COL 0.0 COL 0.0 0.1 COL 0.0 COL 0.					
CHL					
CHN COL DEU 0.0 0.1 0.1 0.1 0.1 0.2 DEU 0.0 0.0 0.1 0.1 0.1 0.2 DEU 0.0 0.0 0.2 0.4 2433 ECU 0.0 0.0 0.2 0.6* EGY 0.0 0.0 0.1 0.0 0.2 0.3 ESP 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0					
COL 0.0 0.1 0.1 6025 DZA 0.0 0.2 0.4 2433 ECU 0.0 -0.1 0.0 2400 EGY 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 0.6* 0.3* 202 HRV 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.3* 6092 IND 0.0 0.0 0.2* 0.3* 6092 IND 0.0 0.2* 0.3* 6092					
DZA 0.0 0.2 0.4 2433 ECY 0.0 -0.1 0.0 2400 EGY 0.0 -0.1 0.0* 2400 ESP 0.0 -0.1 -0.2* 3898 ETH 0.0 0.0 0.0 1000 GEO 0.0 0.2 0.5* 2676 GHA 0.0 0.0 0.5* 3080 GRC 0.0 0.2 -0.4* 1200 GTM 0.0 0.6* 0.3* 2202 HRV 0.0 0.0 0.3+ 1152 HUN 0.0 0.0 0.3* 192 IND 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+ 2631 ITA 0.0 0.0 0.2+ 2631	COL				
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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* 0.5* 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 3065 SWE 0.0 0.4* 0.1 3065 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 0.1 0.0 4169 URY 0.0 0.1 0.1 0.1 2717 USA 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 VEN 0.0 0.2* -0.3+ 3674 ZAF 0.0 1.0* 1.1* 6448 ZWE 0.0 0.3* 0.2* -0.3+ 2714					
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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 TJK 0.0 -0.2 -0.1 1200 TUN 0.0 0.1 -0.7* 2405 TUR 0.0 0.1 -0.7* 2405 UKR 0.0 0.1 0.0 4169 URY 0.0 0.1 0.0 4169 URY 0.0 0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 VEN 0.0 -1.8* -1.5* 2385	PER	0.0	0.5*	0.5*	2602
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 TJK 0.0 -0.2 -0.1 1200 TUN 0.0 0.1 -0.7* 2405 TUR 0.0 0.1 -0.7* 2405 UKR 0.0 0.1 0.0 4169 URY 0.0 0.1 0.0 4169 UZB 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 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 </td <td></td> <td>0.0</td> <td></td> <td></td> <td>3600</td>		0.0			3600
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 TJK 0.0 -0.2 -0.1 1200 TUN 0.0 0.1 -0.7* 2405 TUR 0.0 0.1 -0.7* 2405 UKR 0.0 0.1 0.0 4169 URY 0.0 0.1 0.0 4169 URY 0.0 0.1 0.1 2717 USA 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 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 <td></td> <td></td> <td></td> <td></td> <td></td>					
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 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 0.1 24169 URY 0.0 0.1 0.1 2717 USA 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 VEN 0.0 0.2* -0.3+ 3674 ZAF 0.0 1.0* 1.1* 6448 ZWE 0.0 0.3* 0.3+ 2714					
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 TJK 0.0 -0.2 -0.1 1200 TUN 0.0 0.1 -0.7* 2405 TUR 0.0 0.1 2.2* 1.4* 2405 UKR 0.0 0.1 0.0 4169 URY 0.0 0.1 0.1 2717 USA 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 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					
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SWE 0.0 0.4* 0.3* 2882 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 0.1 2717 USA 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 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					
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 0.1 2717 USA 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 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					
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
UKR 0.0 0.1 0.0 4169 URY 0.0 0.1 0.1 2717 USA 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 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					
USA 0.0 -0.1 -0.3* 5586 UZB 0.0 -0.1 -0.4* 1493 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	0.1		4169
UZB 0.0 -0.1 -0.4* 1493 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					
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					
VNM 0.0 0.2* -0.3+ 3674 ZAF 0.0 1.0* 1.1* 6448 ZWE 0.0 0.3* 0.3+ 2714					
ZAF 0.0 1.0* 1.1* 6448 ZWE 0.0 0.3* 0.3+ 2714					
ZWE $0.0 0.3^* 0.3 + 2714$					
* n<0.05 ± n<0.1:					
	* n<0.05 + n<0.1.	0.0	0.0	0.57	2114

Table 6: exT3-1

	-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	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*	3603
BOL	0.0	-0.0	-0.1	-0.1	-0.1	0.2	-0.1	0.1	2058
BRA CAN	0.0 0.0	0.1 0.1	0.7* -0.1	0.3 -0.1	0.4 -0.0	0.3 -0.1	0.0 -0.2+	0.1 -0.5*	$7462 \\ 5720$
CHL	0.0	0.1	0.8	0.4	-0.0 0.5+	0.1	-0.2+ -0.1	0.0	6657
CHN	0.0	-0.1	0.6*	0.7*	0.2	0.5*	0.6*	0.0	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	0.8+	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*	1.0*	1.0*	1.1*	0.8*	0.7*	3080
GRC GTM	0.0 0.0	0.2 -0.2	$0.4 \\ 0.1$	-0.1 0.9*	0.2 0.5*	0.5* 1.0*	-0.3 0.7*	-0.3* 0.3+	$\frac{1200}{2202}$
HRV	0.0	-0.2 -0.3	2.0*	0.9	0.5	-0.7*	0.7	0.3+	1152
HUN	0.0	0.3	-0.2	-0.1	0.4+	-0.2	0.7*	0.2	1649
IDN	0.0	0.1	0.2+	0.1	0.8*	0.6*	0.4*	0.4*	6092
IND	0.0	0.4*	0.0	0.7*	0.8*	0.1	0.4*	0.6*	11971
IRN	0.0	-0.2	-0.2	0.3	-0.0	-0.6*	-0.3+	-0.1	3973
IRQ	0.0	-0.5+	-0.4	-0.5	-0.1	-0.3	-0.6+	-0.3	2631
ITA	0.0	-0.4	-0.2	-0.2	-0.3	-0.4	-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 LBN	0.0 0.0	1.5* -0.0	0.4 -0.2	-0.0 -0.1	-0.2 -0.0	0.4 -0.2	0.9* -0.2	0.6* -0.2	$1034 \\ 2159$
LTU	0.0	0.4	0.2	0.5	0.6+	-0.2	0.8*	0.7*	996
LVA	0.0	-0.0	0.4	0.1	-0.0	-0.0	-0.5	-0.4*	1190
MAR	0.0	-0.2	-0.0	0.1	-0.0	0.5	0.6*	0.1	2442
MDA	0.0	0.2*	0.4*	0.3+	0.7*	-2.0*	1.3*	0.9*	3000
MEX	0.0	0.1	0.1	-0.0	0.2*	0.1	0.1	0.0	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		-0.3	-0.2	-0.3	-0.2	-0.4*	0.0	1770
PAK	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*	0.3	0.4*	0.0	$0.2 \\ 0.2$	0.3* 0.8*	0.1 0.6*	3093
ROU RUS	0.0 0.0	0.3**	0.2+ 0.6*	0.1 0.4*	0.5* 0.6*	0.2	0.8**	0.6*	5618 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*	0.2*	0.2*	0.2+	0.4+	0.5*	0.3	3065
SWE	0.0	0.2	0.4	0.3	0.4*	0.4*	0.5*	0.4*	2882
THA	0.0	0.2+	0.2+	0.3+	0.1	-0.1	-0.0	-0.7*	4086
TJK	0.0	-0.1	-0.2	-0.7*	0.2	-0.2	-0.5*	-0.2	1200
TUN	0.0	-0.6	-0.4	-0.6+	0.2	-0.4	-0.2	-1.1*	2405
TUR	0.0	-3.2*	0.6*	0.2	0.9*	0.8*	0.9*	1.0*	2405
UKR	0.0	0.4*	0.1	0.5*	0.1	0.1	0.1	0.2	4169
URY	0.0	0.1	0.2	0.2	0.3	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*	0.5+	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	2385
$rac{ ext{VNM}}{ ext{ZAF}}$	0.0	0.5*	0.4+	1.0* 0.9*	0.3 1.1*	1.2* 1.2*	1.0* 1.2*	0.5 1.2*	3674
ZWE	0.0	-0.1 0.1	0.4* 0.4+	0.9	0.5*	0.1	0.6*	0.4+	6448 2714
* n < 0.05 n < 0.1	0.0	0.1	0.4+	0.1	0.0	0.1	0.0	0.4十	4114

Table 7: exT-1

	10	10 501	50 500	5 001	
ALD	-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	-0.1	-0.2*	-0.5*	3320
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
ECU	0.0	-0.5	-0.6*	-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+	0.1	0.1	2459
IND	0.0	0.5*	-0.4*	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*	-0.4	0.0	639
	0.0	0.2*	0.1		
JOR		0.4*		-0.1 -0.3*	2137
KAZ	0.0		-0.0		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	0.0	-0.3+	0.1	-0.2	1600
MYS	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	0.44	625
PAK	0.0		0.3	0.4*	1131
PER	0.0	0.2	0.7*	-0.3	1122
PHL	0.0	0.2	-0.1	0.1	2343
POL	0.0	-0.2	-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
THA	0.0	-0.2	0.1	0.0	2387
TUN	0.0	-0.1			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	-0.3*	1407
VEN	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
* $p < 0.05$. + $p < 0.1$:					

Table 8: exT4-2

	-5	5-500k	500k-	N
ALB	0.0	-0.2*	-0.1	1864
ARG	0.0	-0.2	-0.1	955
AUS	0.0	-0.2	-0.0*	3895
AZE	0.0	-0.1	0.1	995
BFA	0.0	0.3	-0.0	636
BGD	0.0	0.1	0.9*	2562
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	0.0	-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	0.0	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+	-0.2	4628
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	-0.0	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		901
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
* $p < 0.05$, + $p < 0.1$:				

Table 9: exT3-2

	-2k	2-5k	5-10k	10-20k	20-50k	50-100k	100-500k	500k-	N
ALB	0.0	0.3*	-0.3+	-0.6*	-0.2	-0.3	0.1	-0.0	1864
ARG	0.0	0.9*	-0.3	0.1	0.4	0.0	-0.4	0.1	955
AUS	0.0	0.0	-0.3	0.1	0.0	-0.1	-0.1	-0.2	3895
AZE	0.0	-0.0	-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	0.5*	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 3780
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	-0.2+	-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	0.0	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+	-0.3	-0.5	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*	0.0	-2.0*	-0.2	0.5	0.1	1246
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+	$952 \\ 2459$
IDN	0.0	-0.0	0.0	-0.2	1.0*	0.5+	-0.0	0.1	
IND	0.0	0.2*	-0.2*	0.6*	0.4*	-0.5*	-0.3*	0.4*	6931
IRN	0.0	-0.5*	-0.7*	-0.2	0.1	-1.0+	-0.7*	-0.2+	2208
IRQ	0.0	-0.6+	-0.6	-0.7	-0.3 -0.7*	-0.8+	-1.0*	-0.7*	1233
ITA	0.0	-0.5+	-0.0 -0.2	-0.4+		-0.6*	-0.9*	-0.3	639
JOR KAZ	0.0	-0.1 -0.5*	-0.2 -0.4	0.2 -0.0	0.0	-0.2 -0.6+	0.1 -0.3+	-0.2 -0.6*	$2137 \\ 1497$
KGZ	0.0	-0.3+	-0.4 -0.6*	-0.0 -0.5*	0.1 -0.3	-0.0+ -0.1	0.3+	-0.6*	$\frac{1497}{2427}$
KWT	0.0	-0.2+ 1.7*	0.5	0.2	0.1	1.3*	0.5+ 1.2*	0.8*	953
LBN	0.0	-0.6+	-0.6+	-0.5+	-0.3	-0.4	-0.4	-0.7+	898
LTU	0.0	1.0	0.1	0.2	0.2	-0.4	0.4+	0.5+	889
LVA	0.0	-0.0	0.2	-0.2	-0.2	-0.3	-0.7*	-0.7*	1119
MAR	0.0	-0.2	-0.4	-0.1	-0.2	-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	0.1	0.2	0.1	0.1	-0.1	3782
MKD	0.0	0.9*	-0.1	-0.2	-0.1	0.1	1.4*	-0.0	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	-0.1	-0.3	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	0.2	0.3	0.6*	-0.3	1122
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	0.5*	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	-0.0	1888
THA	0.0	0.2*	0.3*	0.0	-0.2	0.0	0.7*	0.1	2387
TUN UKR	0.0	-0.7 0.4*	-0.5	-0.7	-0.4	-0.2	-0.0	-0.1	901
	0.0	0.4* 0.2	0.1	0.3*	0.0		-0.0 2.1*		3593
URY USA	0.0	-0.2	0.2	0.4+ -0.1	0.5*	0.3	-0.3+	0.2	2511
UZB	0.0		-0.1		-0.1	-0.4*		-0.4* -0.1	3493
VEN	0.0	0.3* 1.3	0.5+ -1.6	0.4 -1.2	-0.1 -1.0	-0.3 -1.2	0.2 -1.6+	-0.1 -0.7	1407
VEN	0.0	0.2	0.1	0.6*	-1.0 -0.1	1.1*	0.0	-0.7 -0.3	1111 2330
ZAF	0.0	-0.3+	0.1	0.0	0.4*	0.2	0.0	0.1	5575
ZWE	0.0	-0.5+ -0.0	0.5+	-0.3	0.4	0.2	0.4	0.1	1492
	0.0	-0.0	0.1	-0.0	0.1	0.1	0.0	0.1	1704

Table 10: exT-2

	-10	10-50k	50-500k	500k-	N
ALB	0.0	-0.4*	-0.2	0.5*	1582
ARG	0.0	0.1	-0.2	-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	-0.0*	0.1	0.6*	2104
BGR	0.0	-0.2	-0.1	-0.5*	1229
BLR	0.0	0.0	-0.1	-0.1	2815
BRA	0.0	-0.3*	-0.1 -0.5*	-0.1	3576
CAN				-0.3*	
	0.0	-0.1	-0.1+		3177
CHL	0.0	0.6+	-0.7*	-0.7*	3527
CHN	0.0	-0.3	-0.4	-0.7	2005
COL DEU	0.0	0.1 -0.2*	0.0	-0.1	1376
DEO	0.0		-0.0	0.0	4795
	0.0	0.3+	0.0	-0.0	1596
ECU	0.0	-0.7*	-0.7*	-0.5+	1182
EGY ESP	0.0	-0.2	0.1	-0.8*	3428
ETH	0.0	-0.1 -1.4+	-0.0 0.1	-0.1 0.1	1487 1017
GEO					2401
GHA	$0.0 \\ 0.0$	-0.0 0.2+	$0.1 \\ 0.1$	0.0 -0.1	2572
HUN	0.0	0.0	-0.1	-0.4*	887
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 MKD	0.0	-0.0 -0.3+	-0.1 0.1	-0.2+	3544
MYS			0.0	0.0	1385 1541
NGA	$0.0 \\ 0.0$	$0.2 \\ 0.2$	0.0 0.2+	-0.4* 0.1	1541 4488
NZL	0.0	0.2	-0.1	0.1	417
PAK	0.0	0.0	0.2	0.2	900
PER	0.0	0.1	0.5*	-0.5	1026
PHL	0.0	0.1	0.3	0.5	2294
POL	0.0	-0.2	-0.1	-0.2	1533
ROU	0.0	-0.2	-0.1	0.3*	3568
RUS	0.0	0.1	0.1	0.3+	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	-0.4	1620
SWE	0.0	0.3	0.1	0.1	1769
THA	0.0	-0.1	0.1	0.0	2178
TUN	0.0	-0.1	5.2	3.0	826
UKR	0.0	0.1	0.0	-0.1	2985
URY	0.0	0.3*	0.0	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	-0.1 -0.2	-0.7+	0.1	1034
VNM	0.0	0.3*	0.2	-1.4*	2039
ZAF	0.0	0.3*	0.2	-0.0	5330
ZWE	0.0	-0.2	0.1	0.0	1487
* p<0.05. + p<0.1:	0.0	-0.2	0.1	0.0	1401

Table 11: exT4-3

		F F061	F001	
AID	-5	5-500k	500k-	N
ALB	0.0	-0.4*	0.4+	1582
ARG	0.0	-0.2	-0.0	855
AUS AZE	0.0	-0.0 -0.1	-0.1 0.3	3728 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	-0.0 -0.1	-0.1	2815
BRA	0.0	-0.2	-0.4*	3576
CAN	0.0	-0.1+	-0.4	3177
CHL	0.0	-0.7*	-0.7*	3527
CHN	0.0	0.0	-0.4*	2005
COL		0.0	-0.4	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
LVA	0.0	-0.1	-0.6*	963
MAR	0.0	0.0	-0.2	845
MDA	0.0	0.2*	0.2	2478
MEX	0.0	-0.1	-0.2+	3544
MKD	0.0	-0.2	-0.1	1385
MYS	0.0	0.1	-0.4*	1541
NGA	0.0	-0.1	-0.1	4488
NZL PAK	0.0	-0.1	0.3	417
PER	0.0	0.4+ 0.3*	-0.5	900
PHL	0.0	0.4	0.5	1026 2294
POL	0.0	-0.1	-0.1	1533
ROU	0.0	-0.1	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* -0.4*	2539
SVN	0.0	0.1	-0.4	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 12: exT3-3

	-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 0.6+	-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
					-0.0	-0.7		-0.9	3370
CAN	0.0	-0.1	-0.1	-0.1	-0.2	-0.3*	-0.1	-0.4*	3177
CHL	0.0	0.8+	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	0.2	2401
GHA		0.1	0.8*	0.6*	0.6*		0.3		$\frac{2401}{2572}$
HUN	0.0	0.4	0.8	-0.1	0.6* 0.2	0.5+	0.0	0.2 -0.4	2572 887
IDN	0.0	-0.2	-0.3	-0.1 -0.1	0.2	-0.1 0.2	-0.1	-0.4 -0.1	2056
	0.0				0.4				2000
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
LTU	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	0.0	-0.2	0.0	-0.1	-0.0	-0.2	0.0	417
PAK	0.0	0.1	0.5	0.0	-0.1	-0.0	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	0.0	-0.5	-0.2	0.1	0.4	0.4	0.5	2294
POL	0.0	-0.1	0.1	-0.2 -0.1	0.5 -0.2	0.0	-0.1	-0.2	1533
ROU			-0.2	-0.1 -0.7*	-0.2	-0.5*		0.2	3568
DUC	0.0	-0.1		-0.7	-0.2		-0.2		3000
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
			-0.2	-0.1	-0.1	-0.3*	-0.3+	-0.4*	3372
USA		-0.2			-0.1	-0.5	-0.0T	0.4	0014
USA	0.0	-0.2	-0.2		0.1	0.5	0.2	0.2	1947
USA UZB	0.0 0.0	0.3*	0.3	0.3	-0.1	-0.5 0.6	0.2	-0.2	1247
USA UZB VEN	0.0 0.0 0.0	0.3* 1.6	0.3 -0.9	0.3 -0.2	-0.4	-0.6	-0.9	-0.1	$1247 \\ 1034$
USA UZB VEN VNM	0.0 0.0 0.0 0.0	0.3* 1.6 0.1	0.3 -0.9 -0.0	0.3 -0.2 0.4+	-0.4 -0.1	-0.6 1.0*	-0.9 0.1	-0.1 -1.4*	1247 1034 2039
USA UZB VEN	0.0 0.0 0.0	0.3* 1.6	0.3 -0.9	0.3 -0.2	-0.4	-0.6	-0.9	-0.1	$1247 \\ 1034$

Table 13: exT-3

In table 8 several places appear happier like BGD, IND, LTU, PAK, ROU, and RUS, when adding more controls and full town categories that disappear except for 4 countries.

The results in table 13 are remarkable. In most countries, large cities are less happy than small settlements. Without exception, in no developed country the city is a happier place than the smallest areas.

ARG AUS 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 845 AUS AUS 0.0 0.0 0.3 0.2 0.4* 958 BLR 0.0 0.0 0.2 0.2 0.1 1124 BRA 0.0 0.0 0.8* 0.7* 0.0 0.8* 0.7* 0.0 0.0 0.1 0.1 0.1 1254 BRA 0.0 0.0 0.8* 0.7* 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		-10	10-50k	50-500k	500k-	N
AZE BLR 0.0 0.0 -0.2 -0.1 0.1 1254 BRA 0.0 -0.2 -0.1 0.1 1254 CHL 0.0 0.8* -0.7* -0.5* 1155 COL 0.0 0.1 0.1 0.1 1353 DEU 0.0 0.0 0.2 0.1 0.1 1353 DEU 0.0 0.0 0.2 0.1 1353 DEU 0.0 0.0 0.2 0.1 732 ECU 0.0 0.0 0.1 0.1 0.1 0.3* 1157 GHA 0.0 0.0 0.1 0.1 0.1 0.3* 1157 GHA 0.0 0.0 0.1 0.1 0.1 0.3* 1157 GHA 0.0 0.0 0.1 0.1 0.0 11 0.1 10.3* 1157 GHA 0.0 0.0 0.1 0.1 0.0 11 0.2 1434 IND 0.0 0.0 0.2* -0.3* -0.4 2507 IRQ 0.0 0.0 0.1 0.1 -0.2 1124 KAZ 0.0 0.0 0.1 -0.2 1125 LBN 0.0 0.0 0.1 -0.1 -0.2 1125 LBN 0.0 0.0 0.3+ -0.0 0.0 1.0 0.0 1225 LBN 0.0 0.0 0.1 -0.1 -0.2 1811 MYS 0.0 0.0 0.4 0.1 -0.1 -0.2 1811 MYS 0.0 0.0 0.4 0.1 -0.2 1811 MYS 0.0 0.0 0.4 0.1 -0.1 -0.8* 390 NGA 0.0 0.0 0.4 0.1 -0.0 0.3 1576 NLD 0.0 0.0 0.4 0.1 0.0 0.3 1576 NLD 0.0 0.0 0.4 0.1 0.0 0.3 1576 NLD 0.0 0.0 0.4 0.1 0.0 0.3 1576 NLD 0.0 0.0 0.1 0.0 0.1 0.0 0.3 1576 NLD 0.0 0.0 0.1 0.0 0.3 1576 NLD 0.0 0.0 0.1 0.0 0.3 1576 NLD 0.0 0.0 0.1 0.0 0.1 0.0 0.3 1576 NLD 0.0 0.0 0.1 0.0 0.3 1576 NLD 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ARG				0.2	845
BLR O.0 O.0 O.2 O.2 O.2 O.5* I154 CHL O.0 O.8* O.7* O.0* O.0 O.2* I175 COL OL O.0 O.0 O.1 O.1 O.1 O.1 O.1 I353 DEU O.0 O.0 O.2 O.1 T32 ECU O.0 O.0 O.1 O.1 O.1 O.1 O.1 T353 DEU O.0 O.0 O.2 O.1 T32 ECU O.0 O.0 O.1 O.1 O.1 O.1 O.3* I157 GHA O.0 O.1 IND O.0 IND O.0 IND O.0 I1255 IND O.0 IND O.	AUS	0.0	0.1	0.1	-0.1	925
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 1353 DEU 0.0 -0.2* -0.0 -0.1 1832 DZA 0.0 0.2 0.1 732 ECU 0.0 -0.7* -0.5* 1182 GEO 0.0 0.1 0.1 0.3* 1157 GHA 0.0 0.1 -0.2 1434 1157 1158 1157 GHA 0.0 0.1 -0.2 147 1058 100 0.0 0.0 0.0 1159 102 947 102	AZE	0.0	0.3	0.2	0.4*	958
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 0.1 732 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 1434 IND 0.0 0.1 -0.2 1434 IND 0.0 0.1 -0.2+ -0.4 2507 IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.2	BLR	0.0	-0.2	-0.1	0.1	1254
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 0.1 732 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 1434 IND 0.0 0.1 -0.2 1434 IND 0.0 0.1 -0.2+ -0.4 2507 IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.2	BRA	0.0	-0.2	-0.2	-0.5*	1154
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 0.1 732 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 1434 IND 0.0 0.2* -0.3* -0.4 2507 IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2+ 1443 MC 1124 KAZ	CHL	0.0	0.8*	-0.7*	-0.5*	797
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 0.1 732 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 1434 IND 0.0 0.2* -0.3* -0.4 2507 IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2 1124 KAZZ 0.0 0.1 -0.2 1124 KAZZ 0.0 0.2 -0.0 -0.2+ 1443 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0	CHN			0.0		
DEU 0.0 -0.2* -0.0 -0.1 1832 DZA 0.0 0.2 0.1 732 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 1434 IND 0.0 0.1 -0.2 1434 IND 0.0 0.1 -0.2+ -0.2 947 IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2 1124 KAZ 0.0 0.0 -0.1 0.0 1225 LBN 0.0 0.3+ -0.0 0.3 692 MEX 0.0 0.4+ 0.1 -0.8* 390 NGA 0.0	COL	0.0	0.1			1353
DZA 0.0 0.2 0.1 732 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 1434 IND 0.0 0.2* -0.3* -0.4 2507 IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2 947 JOR 0.0 0.1 -0.2 947 JOR 0.0 0.1 -0.2+ -0.4 2507 IRQ 0.0 0.1 -0.2 947 JOR 0.0 0.1 -0.2 947 JOR 0.0 0.1 -0.2 1124 KAZ 0.0 0.0 -0.1 -0.2 181 MYS 0.0 0.0 0.3 1576		0.0	-0.2*	-0.0	-0.1	1832
GEO 0.0 0.1 0.1 0.1 0.3* 1157 GHA 0.0 0.1 -0.2 1434 IND 0.0 0.2* -0.3* -0.4 2507 IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2+ -0.2 1124 KAZ 0.0 0.0 0.1 -0.2 1124 KAZ 0.0 0.0 0.0 -0.1 0.0 1225 LBN 0.0 0.0 0.3 692 MEX 0.0 0.3+ -0.0 0.3 692 MEX 0.0 0.4 0.1 -0.1 -0.2 1811 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 0.0 -0.2 -0.2 0.1 1308 URY 0.0 -0.2 -0.2 0.1 1308 URY 0.0 0.2 -0.2 0.1 1308 URY 0.0 0.2 0.1 10.0 1179 ZAF 0.0 0.1 0.1 179 ZAF 0.0 0.1 0.1 1478	DZA	0.0	0.2	0.1		
GEO 0.0 0.1 0.1 0.1 0.3* 1157 GHA 0.0 0.1 -0.2 1434 IND 0.0 0.2* -0.3* -0.4 2507 IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2+ -0.2 1124 KAZ 0.0 0.0 0.1 -0.2 1124 KAZ 0.0 0.0 0.0 -0.1 0.0 1225 LBN 0.0 0.0 0.3 692 MEX 0.0 0.3+ -0.0 0.3 692 MEX 0.0 0.4 0.1 -0.1 -0.2 1811 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 0.0 -0.2 -0.2 0.1 1308 URY 0.0 -0.2 -0.2 0.1 1308 URY 0.0 0.2 -0.2 0.1 1308 URY 0.0 0.2 0.1 10.0 1179 ZAF 0.0 0.1 0.1 179 ZAF 0.0 0.1 0.1 1478	ECU	0.0	-0.7*	-0.7*	-0.5*	1182
GHA 0.0 0.1 -0.2 1434 IND 0.0 0.2* -0.3* -0.4 2507 IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2 1124 KAZ 0.0 0.0 -0.0 -0.2+ 1443 KGZ 0.0 0.0 -0.1 0.0 1225 LBN 0.0 0.3+ -0.0 0.3 692 MEX 0.0 -0.1 -0.1 -0.2 1811 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 408 PER 0	GEO	0.0	0.1	0.1	0.3*	1157
IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2 1124 KAZ 0.0 0.2 -0.0 -0.2+ 1443 KGZ 0.0 0.0 -0.1 0.0 1225 LBN 0.0 0.3+ -0.0 0.3 692 MEX 0.0 -0.1 -0.1 -0.2 1811 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL </td <td>GHA</td> <td>0.0</td> <td></td> <td>-0.2</td> <td></td> <td></td>	GHA	0.0		-0.2		
IRQ 0.0 0.1 -0.2+ -0.2 947 JOR 0.0 0.1 -0.2 1124 KAZ 0.0 0.2 -0.0 -0.2+ 1443 KGZ 0.0 0.0 -0.1 0.0 1225 LBN 0.0 0.3+ -0.0 0.3 692 MEX 0.0 -0.1 -0.1 -0.2 1811 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU <td>IND</td> <td>0.0</td> <td>0.2*</td> <td>-0.3*</td> <td>-0.4</td> <td>2507</td>	IND	0.0	0.2*	-0.3*	-0.4	2507
JOŘ 0.0 0.1 -0.2 1124 KAZ 0.0 0.2 -0.0 -0.2+ 1443 KGZ 0.0 0.0 -0.1 0.0 1225 LBN 0.0 0.3+ -0.0 0.3 692 MEX 0.0 -0.1 -0.1 -0.2 1811 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 408 PER 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU 0.0	IRO		0.1	-0.2+	-0.2	
KGZ 0.0 0.0 -0.1 0.0 1225 LBN 0.0 0.3+ -0.0 0.3 692 MEX 0.0 -0.1 -0.1 -0.2 1811 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 408 PER 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.2 0.0 0.1 1665 RWA			0.1			
LBN 0.0 0.3+ -0.0 0.3 692 MEX 0.0 -0.1 -0.1 -0.2 1811 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.4 0.5 1448 NZL 0.0 0.1 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 0.0 0.0 -0.2 793 ROU 0.0 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.1 -0.2 0.1 1665 RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 0.0 -0.5* -0.3 922 TUN 0.0 0.0 0.0 -0.2 -0.3* -0.1 1308 URY 0.0 0.2 -0.2 -0.2 0.1 1308 URY 0.0 0.2 -0.2 0.1 1308 URY 0.0 0.2 -0.2 0.1 1308 URY 0.0 0.2 -0.2 0.1 1308 ZWE 0.0 0.1 0.1 -0.1 179 ZAF 0.0 0.1 0.1 0.0 0.1 1478	KAZ	0.0	0.2	-0.0	-0.2+	1443
MEX 0.0 -0.1 -0.1 -0.2 1811 MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981	KGZ	0.0	0.0	-0.1	0.0	1225
MYS 0.0 0.4 0.1 -0.8* 390 NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.2 0.0 0.1 1365 RWA 0.0 -0.2 0.0 0.1 1665 RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN	LBN	0.0	0.3+	-0.0	0.3	692
NGA 0.0 0.3+ 0.0 0.3 1576 NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.2 0.0 0.1 1365 RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 UKR 0.0 -0.2 -0.3* -0.1 1308 URY 0.0 0.2	MEX	0.0	-0.1	-0.1	-0.2	1811
NLD 0.0 0.4 0.4 0.5 1448 NZL 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.2 0.0 0.1 1665 RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 UKR 0.0 -0.2 -0.3* -0.1 1308 URY 0.0 0.2 -0.2 0.1 1465 UZB 0.0 -0.0 <td>MYS</td> <td>0.0</td> <td>0.4</td> <td>0.1</td> <td>-0.8*</td> <td>390</td>	MYS	0.0	0.4	0.1	-0.8*	390
NZL 0.0 0.1 0.0 408 PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.2 0.0 0.1 1665 RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 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 0.1 <td></td> <td></td> <td>0.3+</td> <td></td> <td></td> <td>1576</td>			0.3+			1576
PER 0.0 0.2 0.4* -0.7 1018 PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.2 0.0 0.1 1665 RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 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 0.1 0.0 0.1 1478					0.5	
PHL 0.0 0.4 0.6 0.5 1142 POL 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.2 0.0 0.1 1665 RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 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 0.1 0.0 0.1 1478		0.0	0.1			408
POL 0.0 0.0 0.0 -0.2 793 ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.2 0.0 0.1 1665 RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 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 3058 ZWE 0.0 0.1 0.0 0.1 1478						
ROU 0.0 -0.1 -0.2 0.1 1323 RUS 0.0 -0.2 0.0 0.1 1665 RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 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 3058 ZWE 0.0 0.1 0.0 0.1 1478						
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RWA 0.0 -0.1 -0.1 0.2 1251 SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 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 3058 ZWE 0.0 0.1 0.0 0.1 1478						
SVN 0.0 0.4* -0.1 -0.5 807 SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 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 3058 ZWE 0.0 0.1 0.0 0.1 1478						
SWE 0.0 0.1 0.0 0.1 981 THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 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 3058 ZWE 0.0 0.1 0.0 0.1 1478						
THA 0.0 -0.5* -0.3 922 TUN 0.0 0.0 822 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 3058 ZWE 0.0 0.1 0.0 0.1 1478						
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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 3058 ZWE 0.0 0.1 0.0 0.1 1478				-0.3		
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 3058 ZWE 0.0 0.1 0.0 0.1 1478						
UZB 0.0 -0.0 0.1 -0.1 1179 ZAF 0.0 0.2 0.1 3058 ZWE 0.0 0.1 0.0 0.1 1478						
ZAF 0.0 0.2 0.1 3058 ZWE 0.0 0.1 0.0 0.1 1478						
ZWE 0.0 0.1 0.0 0.1 1478	UZB			0.1	-0.1	
	ZAF					
		0.0	0.1	0.0	0.1	1478

Table 14: exT4-4

	-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, $+ p < 0.1$:				

Table 15: exT3-4

	-2k	2-5k	5-10k	10-20k	20-50k	50-100k	100-500k	500k-	N
ARG	0.0	0.6	0.0	0.2	0.3	0.0	-0.1	0.2	845
AUS	0.0	0.0	-0.2	0.2	-0.0	0.0	0.1	-0.1	925
AZE	0.0	-0.1	-0.4	-0.3	0.5	0.3	-0.0	0.4+	958
BLR	0.0	-0.4	-1.2*	-0.2	-0.3+	-0.2	-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*	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
JOŘ	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		-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
* n < 0.05 + n < 0.1									

Table 16: exT-4