

Supplementary Online Appendix, Not for Publication "Informality, Consumption Taxes and Redistribution"

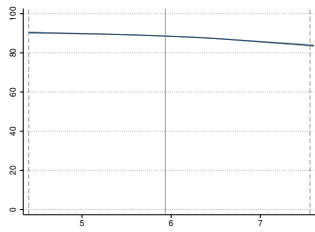
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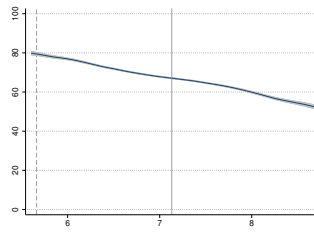
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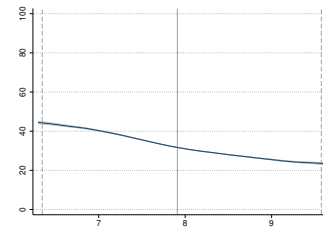
Figure E1: Informality Engel Curves



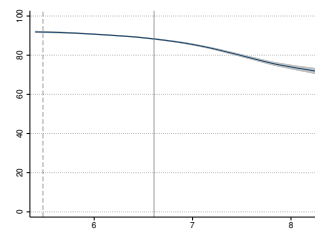
(a) Benin



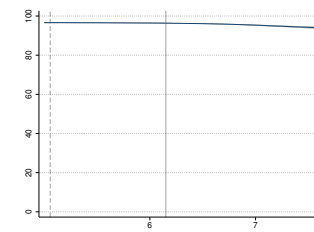
(b) Bolivia



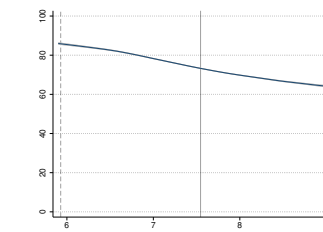
(c) Brazil



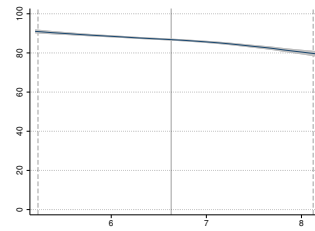
(d) Burkina Faso



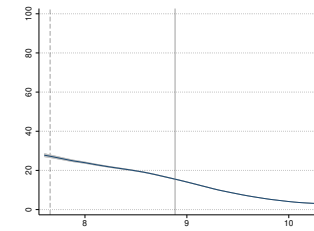
(e) Burundi



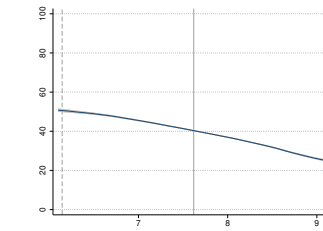
(f) Cameroon



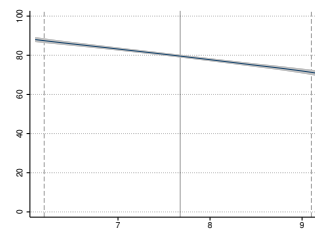
(g) Chad



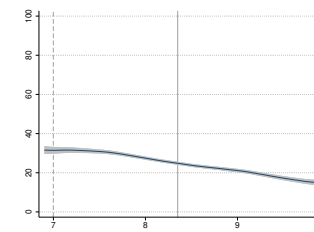
(h) Chile



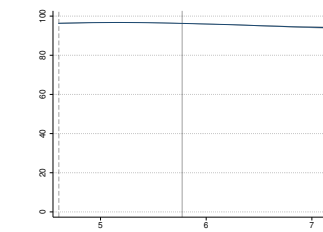
(i) Colombia



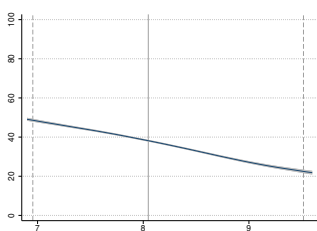
(j) Comoros



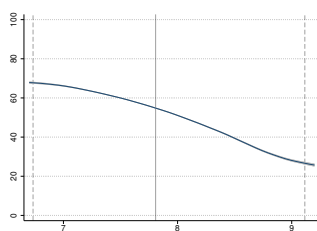
(k) Costa Rica



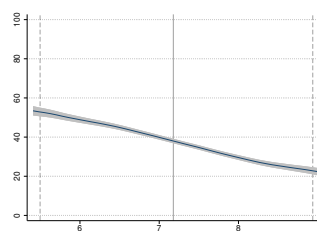
(l) Dem. Rep. of Congo



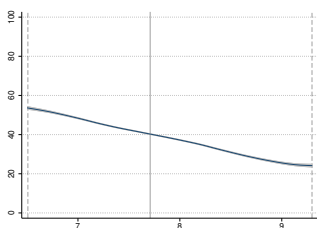
(m) Dominican Rep.



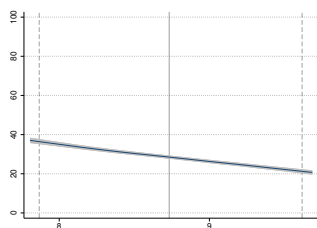
(n) Ecuador



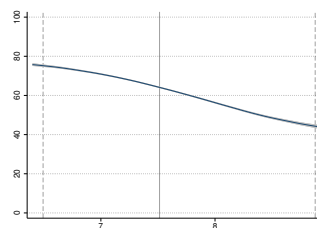
(o) Eswatini



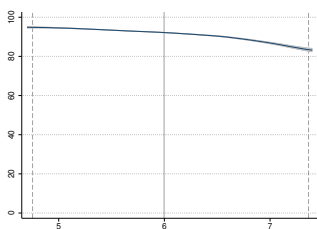
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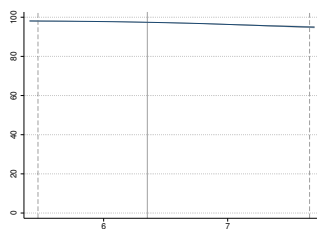
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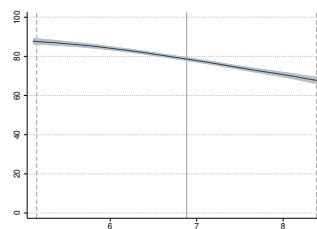
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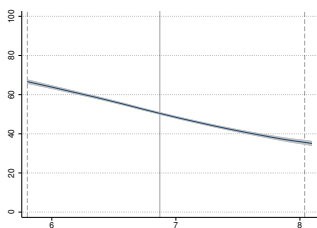
(s) Mozambique



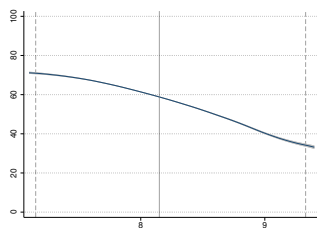
(t) Niger



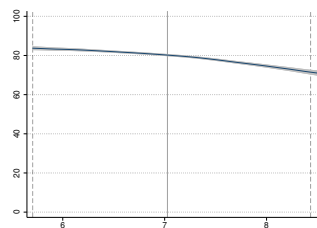
(u) Papua New Guinea



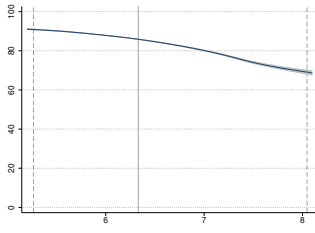
(v) Paraguay



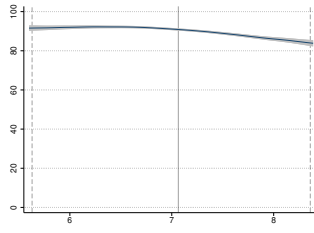
(w) Peru



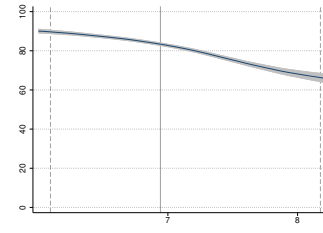
(x) Rep. of Congo



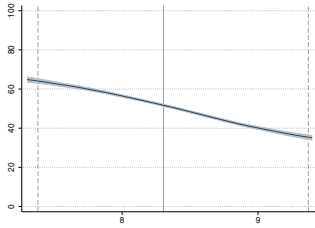
(y) Rwanda



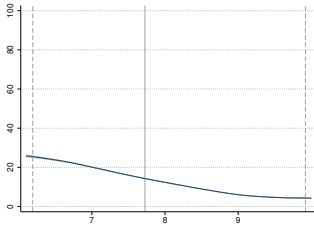
(z) Sao Tome



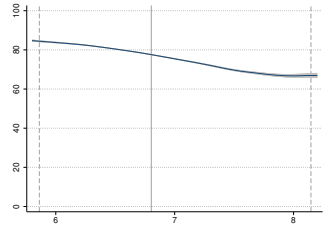
(aa) Senegal



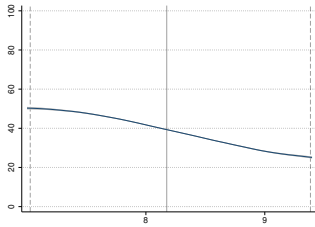
(ab) Serbia



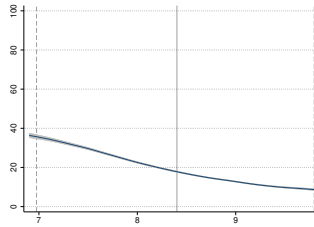
(ac) South Africa



(ad) Tanzania



(ae) Tunisia



(af) Uruguay

Local polynomial fit of the Informality Engel Curves in all 32 core sample countries. Per person total expenditure on the horizontal axis is measured in log. Informal budget share is on the vertical axis. The shaded area around the polynomial fit corresponds to the 95% confidence interval. The solid grey line corresponds to the median of each country's expenditure distribution, while the dotted lines correspond to the 5th and 95th percentiles. The construction of informality Engel curves is presented in section 4.1.

Figure E2: Average Share of Unspecified Category by COICOP

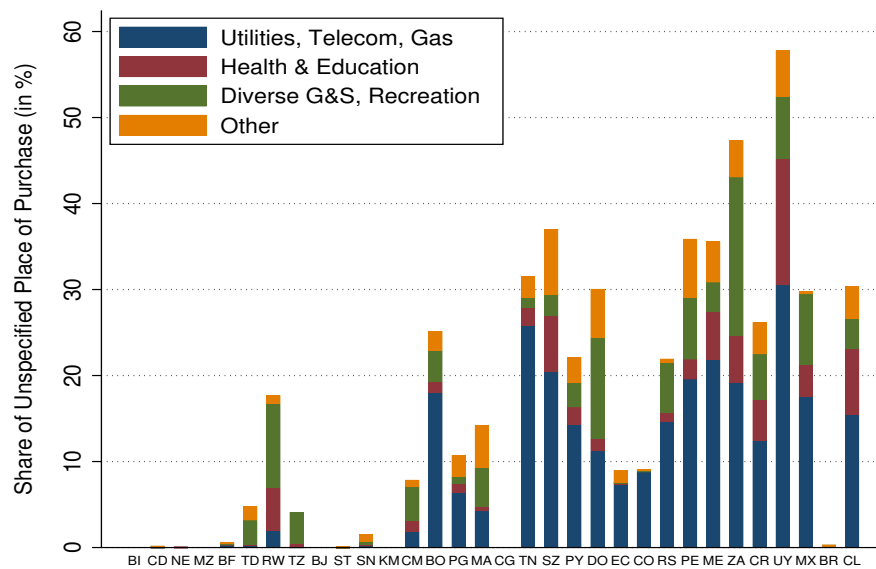
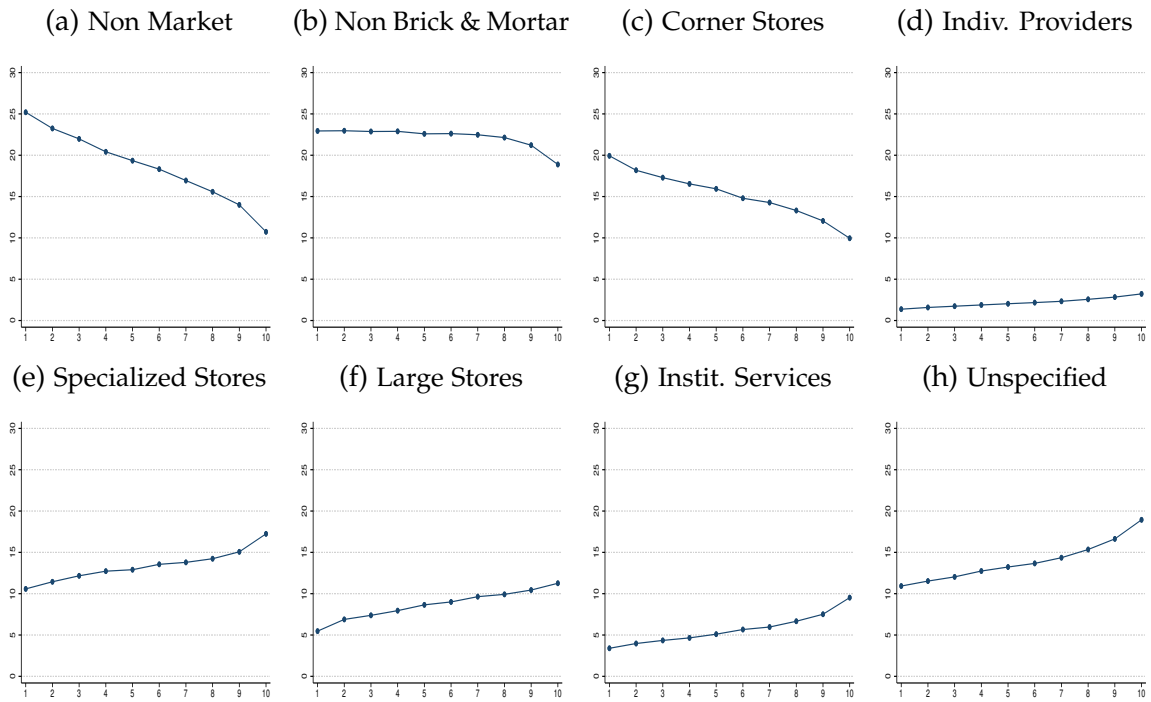
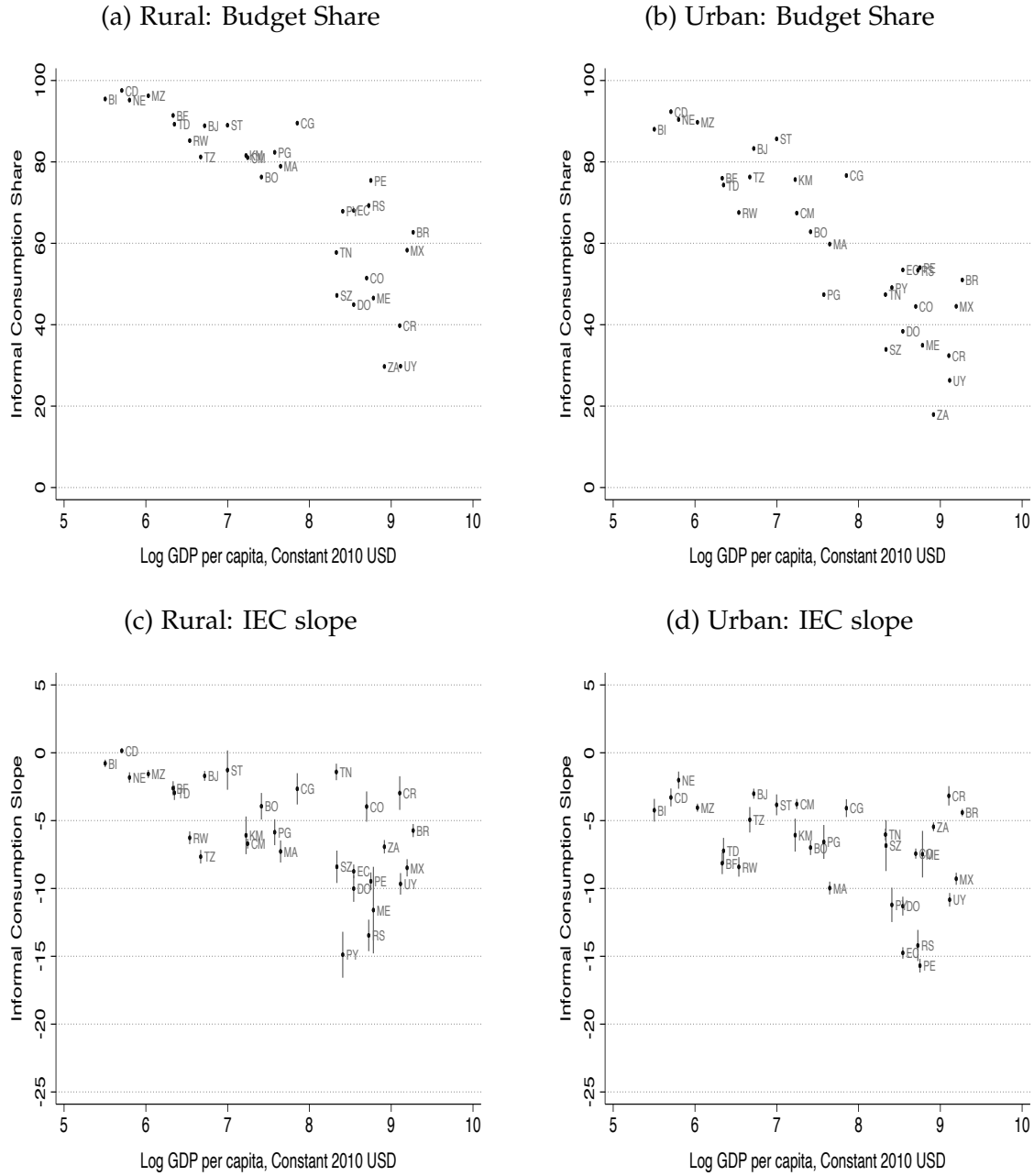


Figure E3: Average Expenditure of Each Decile by Place of Purchase



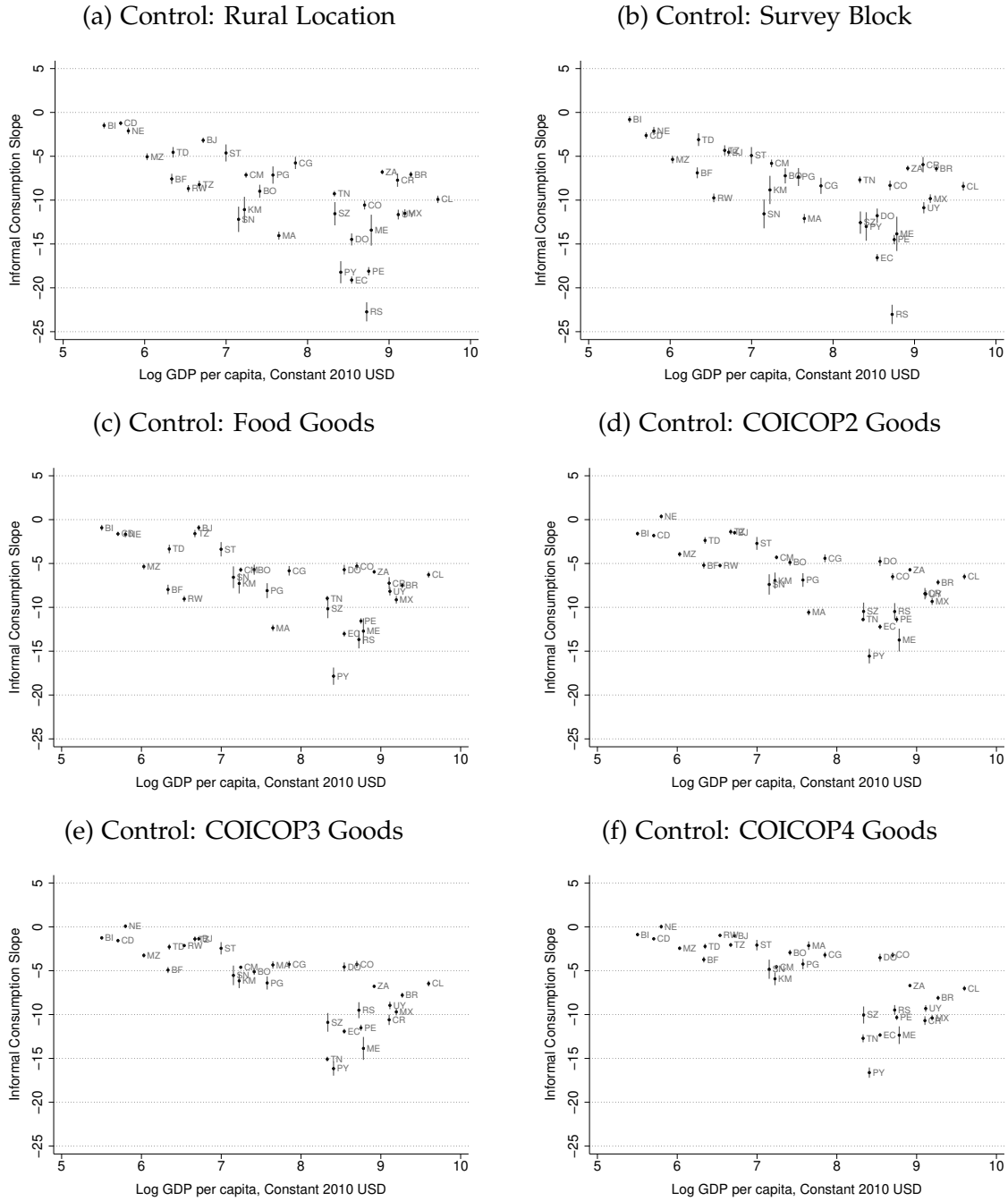
This figure shows the average expenditure of each decile across countries by type of retailer, following the retailer taxonomy described in section 3.2. Panel (a), (b), (c), (d) show the places of purchase classified as informal and Panel (e), (f), (g) and (h) show the places of purchase classified as formal in the central scenario of the paper.

Figure E4: Rural vs Urban Informal Consumption



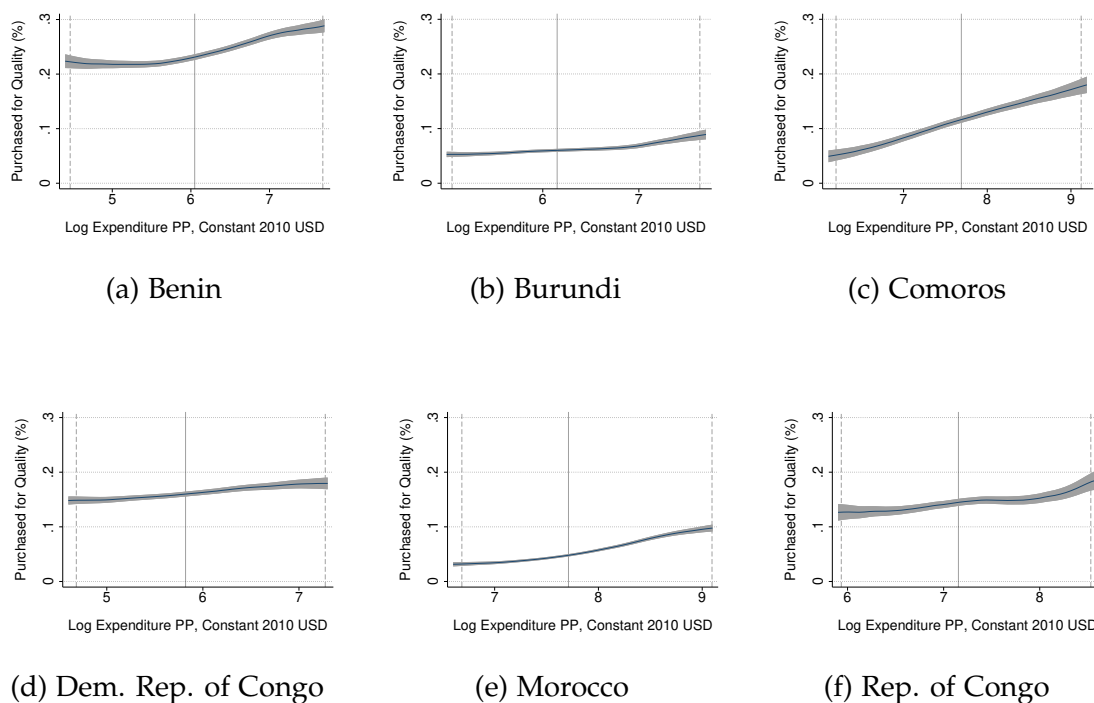
This figure plots informality levels and the slopes of the informality Engel curves for households located in rural regions (graphs a and c) and urban regions (graphs b and d). It only contains 30 countries instead of 32, since the expenditure surveys in Chile and Senegal concern urban population only.

Figure E5: Informality Engel Curve Slopes with Controls



This figure shows each countries Informality Engel curves' slopes on GDP per capita, controlling for geographical variables or increasingly narrow products, discussed in Section 4.2. Panel (a) controls for an indicator for whether the household resides in a rural location, panel (b) controls for survey enumeration blocks. Panel (c) controls for food products, panel (d) for the 12 COICOP2 good categories, panel (e) for the 47 COICOP3 categories, and panel (f) for the 117 COICOP4 categories.

Figure E6: Share of Purchases where Store is Chosen for its Quality by Income



Local polynomial fit of the share of households buying any product for its quality on household's total expenditure per person (log), as discussed in Section 4.2. Each panel corresponds to one of the six countries, for which the expenditure survey asks respondents why they chose this place of purchase for each expenditure. The solid vertical line corresponds to the median household total expenditure, while the dotted lines correspond to the 5th and 95th percentile.

Table E1: Household Expenditure Surveys

Country name	Survey	Year	Source	# HH	# items/HH	Exp/HH	Urban	HH Size	# PoP	# Modules	Product Code	Comments
Cst. 2010 USD												
Benin	EMICOV	2015	World Bank	19872	31.9	261	48.2%	4.3	12	22	COICOP	
Bolivia	ECH	2004	Stat. Office	9149	49.4	585	60.7%	4.2	24	3	COICOP	
Brazil	POF	2009	Stat. Office	56049	48	3892	84.4%	3.3	33	8	Country-specific	
Burkina Faso	EICVM	2009	Stat. Office	8404	161.6	563	29.3%	6.7	45	1	COICOP	
Burundi	ECVM	2014	World Bank	6681	90.2	242	9.0%	4.8	13	23	COICOP	
Cameroon	ECAM	2014	World Bank	10303	95.8	1889	44.5%	4.6	17	1	COICOP	
Chad	ECOSIT	2003	World Bank	6747	92	356	10.9%	5.9	17	18	Country-specific	
Chile	EPF	2017	Stat. Office	15237	129.2	6872	100.0%	3.3	22	1	COICOP	No self-production, Only urban
Colombia	ENIG	2007	Stat. Office	42733	79.6	1850	82.4%	3.8	24	5	COICOP	
Comoros	EDMC	2013	Stat. Office	3139	83.5	1809	49.1%	5	12	19	COICOP	
Congo DRC	E123	2005	World Bank	12098	106.9	198	16.0%	5.3	13	1	COICOP	
Congo Rep	ECOM	2005	World Bank	5002	84.8	641	63.8%	5.1	17	1	COICOP	
Costa Rica	ENIGH	2014	Stat. Office	5705	67.5	5256	73.2%	3.4	41	1	COICOP	
Dominican Rep	ENIGH	2007	Stat. Office	8363	89.1	2396	67.6%	3.7	88	3	COICOP	
Ecuador	ENIGHUR	2012	World Bank	39617	88.6	1923	68.0%	3.9	75	7	COICOP	
Eswatini	HIES	2010	World Bank	3167	43.9	1283	37.4%	4.5	13	2	COICOP	
Mexico	ENIGH	2014	Stat. Office	19459	57.4	2272	64.5%	3.8	19	1	COICOP	
Montenegro	HBS	2009	World Bank	1223	148.9	3731	62.7%	3	7	3	COICOP	Cant separate categories 3 & 4
Morocco	ENCDM	2001	World Bank	14243	87.5	1679	61.6%	5.9	47	17	COICOP	
Mozambique	IOF	2009	World Bank	10809	48.7	363	28.9%	4.7	6	6	COICOP	
Niger	ENCBM	2007	World Bank	4000	221.2	325	17.2%	6.4	15	6	COICOP	
Papua NG	HIES	2010	World Bank	3811	111.2	1002	11.3%	5.1	6	1	COICOP	
Paraguay	EIGCV	2011	Stat. Office	5417	87.9	3466	61.2%	3.9	54	1	Country-specific	
Peru	ENAH0	2017	Stat. Office	43545	78.5	2609	76.8%	3.9	41	8	Country-specific	
Rwanda	EICV	2014	World Bank	14419	53.6	417	17.1%	4.6	11	8	COICOP	Pre-filled items
SaoTome	IOF	2010	World Bank	3145	105.9	705	68.1%	3.8	21	3	COICOP	
Senegal	EDMC	2008	World Bank	1443	517.8	640	100.0%	7.7	41	1	COICOP	Only urban
Serbia	HBS	2015	World Bank	6531	106	1888	61.9%	2.8	9	2	COICOP	
South Africa	IES	2011	U. of Cape Town	25325	44.2	3557	67.3%	3.8	6	1	COICOP	Cant separate categories 3 & 4
Tanzania	HBS	2012	World Bank	10186	317.8	478	21.9%	5	13	2	COICOP	Cant separate categories 3 & 4
Tunisia	ENBCNV	2010	Stat. Office	11281	139.1	1732	67.6%	4.3	9	1	COICOP	Cant separate categories 3 & 4
Uruguay	ENIGH	2005	Stat. Office	7042	77.5	2855	84.9%	3	39	1	COICOP	

The column '# PoP' refers to the number of different places of purchase in the country classification.

Table E2: IEC Slopes: Country Specific Formality Assignment

Specification:	Main		Geography		Product Codes			All	
Avg. of 32 Countries	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Slope	9.2	9.9	8.5	7.6	6.4	5.9	5.7	5.2	3.9
Confidence Interval	[8.7,9.8]	[9.3,10.5]	[7.9,9.1]	[6.9,8.2]	[5.9,6.9]	[5.4,6.3]	[5.3,6.1]	[4.8,5.5]	[3.4,4.3]
# of p-values < 0.05	32	32	32	32	31	31	31	31	29
R ² adjusted	0.20	0.22	0.28	0.44	0.45	0.53	0.53	0.53	0.57
Household Characteristics		X	X	X	X	X	X	X	X
Urban/Rural			X						
Survey Blocks				X					X
Food Products					X				
COICOP 2-dig						X			
COICOP 3-dig							X		
COICOP 4-dig								X	X

Table E3: IEC Slopes: VAT on Input

Specification:	Main		Geography		Product Codes			All	
Avg. of 32 Countries	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Slope	9.6	10.4	8.9	7.9	6.9	6.4	6.2	5.7	4.3
Confidence Interval	[9.1,10.2]	[9.8,11.0]	[8.3,9.5]	[7.2,8.6]	[6.4,7.5]	[5.9,6.9]	[5.7,6.6]	[5.3,6.1]	[3.8,4.7]
# of p-values < 0.05	32	32	32	32	32	32	32	32	30
R ² adjusted	0.20	0.23	0.29	0.44	0.44	0.51	0.52	0.51	0.55
Household Characteristics		X	X	X	X	X	X	X	X
Urban/Rural			X						
Survey Blocks				X					X
Food Products					X				
COICOP 2-dig						X			
COICOP 3-dig							X		
COICOP 4-dig								X	X

This table shows the (negative) average slope of the Informality Engel Curves across countries for different specifications. The first table uses the country specific formality probabilities of modern and traditional stores. The second table assumes a 10% pass-through of taxes to informal prices, based on our results for Mexico. Column 1, reports the slopes estimated from the following regression: $Share\ Informal_{ip} = \beta_0 + \beta_1 \ln(expenditure_i) + \varepsilon_{ip}$ where $Share\ Informal_{ip}$ is the share of household i 's informal expenditure on product p . Each observation is weighted using household survey weights and the expenditure share of the product. Average of lower and upper bound of 95% confidence intervals in brackets, from robust standard errors. Column 2 augments this regression with controls for household characteristics (household size, age, gender, education of head). Column 3 (4), adds fixed effects for urban/rural (survey enumeration blocks). Column 5, instead adds fixed effects for food versus non-food products. Columns 6/7/8, instead add fixed effects for product codes at 2nd/3rd/4th level of the COICOP classification. Column 9 adds household characteristics and fixed effects for survey blocks and COICOP-4.

Table E4: IEC Slopes by Country

Country	Main		Geography		Product Codes			All	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Benin	3.31 (0.15)	3.61 (0.16)	3.18 (0.16)	4.54 (0.22)	0.92 (0.16)	1.49 (0.11)	1.36 (0.10)	1.03 (0.10)	1.26 (0.15)
Bolivia	9.77 (0.29)	11.43 (0.33)	8.99 (0.38)	7.22 (0.44)	5.71 (0.29)	4.87 (0.19)	5.13 (0.18)	2.93 (0.16)	2.74 (0.25)
Brazil	7.60 (0.15)	7.98 (0.17)	7.07 (0.17)	6.41 (0.18)	7.50 (0.16)	7.15 (0.16)	7.79 (0.15)	8.11 (0.13)	6.64 (0.14)
Burkina Faso	9.71 (0.30)	10.56 (0.32)	7.58 (0.30)	6.89 (0.32)	7.97 (0.28)	5.20 (0.19)	4.92 (0.18)	3.73 (0.17)	2.39 (0.19)
Burundi	2.00 (0.16)	2.47 (0.17)	1.48 (0.17)	0.81 (0.18)	0.93 (0.17)	1.59 (0.12)	1.26 (0.10)	0.88 (0.10)	0.33 (0.12)
Cameroon	8.21 (0.13)	9.35 (0.14)	7.13 (0.16)	5.81 (0.22)	5.72 (0.13)	4.30 (0.12)	4.61 (0.10)	4.55 (0.09)	2.88 (0.13)
Chad	5.72 (0.29)	6.21 (0.30)	4.54 (0.30)	3.10 (0.37)	3.35 (0.25)	2.37 (0.19)	2.29 (0.16)	2.23 (0.15)	0.90 (0.22)
Chile	9.92 (0.20)	9.91 (0.21)	9.91 (0.21)	8.42 (0.25)	6.28 (0.17)	6.50 (0.17)	6.47 (0.16)	7.02 (0.15)	5.97 (0.17)
Colombia	9.76 (0.23)	10.52 (0.25)	10.56 (0.26)	8.32 (0.28)	5.31 (0.22)	6.51 (0.21)	4.28 (0.20)	3.22 (0.17)	3.37 (0.19)
Comoros	9.54 (0.58)	11.65 (0.71)	11.08 (0.74)	8.84 (0.82)	7.28 (0.58)	6.95 (0.47)	6.16 (0.42)	5.93 (0.37)	4.42 (0.56)
CongoDRC	1.35 (0.13)	2.22 (0.15)	1.23 (0.13)	2.63 (0.18)	1.62 (0.13)	1.82 (0.11)	1.57 (0.10)	1.36 (0.08)	1.39 (0.14)
Congo Rep	6.38 (0.34)	7.50 (0.36)	5.76 (0.36)	8.37 (0.47)	5.83 (0.28)	4.41 (0.23)	4.27 (0.20)	3.21 (0.18)	3.10 (0.27)
Costa Rica	7.22 (0.35)	8.60 (0.37)	7.72 (0.38)	5.95 (0.45)	7.25 (0.35)	8.44 (0.33)	10.60 (0.30)	10.69 (0.25)	8.84 (0.30)
Dominican Rep	14.39 (0.31)	14.89 (0.35)	14.48 (0.35)	11.78 (0.42)	5.70 (0.28)	4.76 (0.27)	4.57 (0.26)	3.52 (0.23)	2.36 (0.25)
Ecuador	19.11 (0.18)	20.90 (0.19)	19.11 (0.21)	16.57 (0.21)	13.02 (0.16)	12.22 (0.15)	11.92 (0.14)	12.34 (0.12)	9.46 (0.13)
Eswatini	11.64 (0.51)	12.38 (0.62)	11.55 (0.67)	12.56 (0.65)	10.17 (0.55)	10.47 (0.51)	10.89 (0.54)	10.05 (0.50)	9.88 (0.51)
Mexico	12.01 (0.20)	13.57 (0.23)	11.51 (0.24)	9.83 (0.25)	9.14 (0.22)	9.33 (0.20)	9.70 (0.20)	10.39 (0.16)	7.09 (0.19)
Montenegro	15.87 (0.79)	16.64 (0.89)	13.42 (0.90)	13.85 (1.00)	12.71 (0.75)	13.73 (0.66)	13.86 (0.67)	12.35 (0.51)	10.20 (0.56)
Morocco	16.85 (0.21)	18.11 (0.22)	14.05 (0.23)	12.09 (0.27)	12.35 (0.19)	10.57 (0.18)	4.34 (0.21)	2.14 (0.25)	0.00 (0.28)
Mozambique	5.46 (0.19)	6.27 (0.20)	5.05 (0.20)	5.36 (0.22)	5.35 (0.16)	3.94 (0.14)	3.26 (0.13)	2.44 (0.11)	2.07 (0.14)
Niger	2.14 (0.18)	2.56 (0.19)	2.10 (0.19)	2.12 (0.24)	1.67 (0.17)	0.00 (0.12)	0.00 (0.11)	0.00 (0.12)	0.00 (0.14)
Papua New Guinea	8.59 (0.49)	9.35 (0.49)	7.14 (0.50)	7.36 (0.52)	8.10 (0.43)	6.88 (0.40)	6.40 (0.38)	4.24 (0.30)	3.06 (0.32)
Paraguay	20.06 (0.53)	22.02 (0.54)	18.22 (0.64)	13.01 (0.83)	17.85 (0.50)	15.56 (0.43)	16.16 (0.41)	16.62 (0.30)	9.60 (0.43)
Peru	19.58 (0.22)	21.83 (0.23)	18.10 (0.24)	14.50 (0.27)	11.56 (0.16)	11.38 (0.18)	11.51 (0.18)	10.34 (0.15)	6.05 (0.17)
Rwanda	9.90 (0.19)	10.61 (0.20)	8.68 (0.20)	9.75 (0.25)	9.04 (0.18)	5.23 (0.12)	2.14 (0.08)	0.97 (0.08)	0.09 (0.09)
Sao Tome	4.07 (0.42)	4.53 (0.50)	4.62 (0.50)	4.92 (0.49)	3.38 (0.42)	2.71 (0.37)	2.45 (0.36)	2.08 (0.31)	2.49 (0.32)
Senegal	15.20 (0.67)	12.19 (0.74)	12.19 (0.74)	11.56 (0.84)	6.57 (0.63)	7.39 (0.59)	5.53 (0.57)	4.83 (0.56)	4.47 (0.65)
Serbia	20.91 (0.58)	24.24 (0.58)	22.74 (0.56)	23.03 (0.56)	13.67 (0.51)	10.48 (0.49)	9.50 (0.47)	9.48 (0.29)	8.47 (0.29)
South Africa	6.52 (0.11)	7.60 (0.13)	6.80 (0.14)	6.37 (0.16)	5.96 (0.12)	5.72 (0.11)	6.78 (0.09)	6.70 (0.08)	6.13 (0.10)
Tanzania	9.75 (0.22)	8.64 (0.22)	8.24 (0.23)	4.33 (0.30)	1.59 (0.22)	1.38 (0.16)	1.39 (0.15)	2.06 (0.13)	1.13 (0.17)
Tunisia	12.00 (0.14)	11.50 (0.15)	9.27 (0.16)	7.69 (0.19)	8.98 (0.14)	11.38 (0.11)	15.08 (0.14)	12.71 (0.23)	11.06 (0.26)
Uruguay	11.57 (0.25)	11.73 (0.27)	11.65 (0.28)	10.87 (0.32)	8.18 (0.24)	8.48 (0.22)	8.96 (0.22)	9.31 (0.19)	8.36 (0.21)
All Countries (Mean)	9.8	10.6	9.2	8.5	6.9	6.3	6.1	5.4	4.3
Household Characteristics		X	X	X	X	X	X	X	X
Urban/Rural			X						
Survey Blocks				X					X
Food Products					X			X	
COICOP 2-dig						X			
COICOP 3-dig							X		
COICOP 4-dig								X	X

This table shows the average slope of the Informal Engel curve across countries for different specifications. The slopes are estimated from: $Share\ Informal_i = \beta \ln(expenditure\ pc)_i + \Gamma X_i + \varepsilon_i$, where the dependent variable is the informal expenditure share and the explanatory variable is the log expenditure pp. Controls include household characteristics (household size, age, gender, and education of head), geographic indicators (urban/rural and survey enumeration blocks), and product codes for food compared to the rest and at the 2nd, 3rd and 4th level of the United Nation's COICOP classification.

Table E5: Main Reason for Choosing a Place of Purchase

Outcome: Share of purchases (in %)									
Reason	Benin			Burundi			Comoros		
	Informal	Formal	All Stores	Informal	Formal	All Stores	Informal	Formal	All Stores
Access	39.3	29.9	39.0	49.9	41.5	49.8	38.6	16.4	36.2
Price	26.8	11.6	26.4	27.8	14.8	27.6	31.7	26.1	31.1
Quality	23.5	51.4	24.3	5.7	41.0	6.4	9.0	39.8	12.4
Store Attributes	7.6	3.3	7.4	3.8	0.8	3.7	14.3	6.0	13.4
Other	2.9	3.9	2.9	12.8	1.9	12.6	6.4	11.7	7.0

Reason	Dem. Rep of Congo			Morocco			Rep. of Congo		
	Informal	Formal	All Stores	Informal	Formal	All Stores	Informal	Formal	All Stores
Access	28.9	16.1	28.7	58.7	57.3	58.5	37.5	26.8	36.8
Price	34.4	27.2	34.3	22.5	6.4	20.1	33.3	20.0	32.4
Quality	16.3	46.5	16.6	3.9	19.7	6.3	12.2	45.0	14.3
Store Attributes	7.8	7.6	7.8	0.6	7.7	1.7	7.4	4.3	7.2
Other	12.7	2.7	12.6	14.3	8.9	13.5	9.7	3.8	9.3

The table reports the frequencies across all purchases by reason of choosing a place of purchase, and shows the average for the six countries in the core sample which ask this question. These countries are Benin, Burundi, Comoros, Congo Rep., Morocco and RD Congo. In all surveys seven reasons are listed which we classify into five categories as follows: access is defined as "The retailer is closer or more convenient" and "The good or service cannot be found elsewhere", price as "The good or services are cheaper", quality as "The goods or services are of better quality", store attributes as "The retailer offers credit" and "The retailer is welcoming or is a friend" and other as "Others reasons". Note that Morocco has a few additional small categories, which pertain to attributes of retailer. The table lists the frequency for all purchases of goods and excludes services, which are less comparable along these dimensions, although their inclusion does not impact the results.

Table E6: Traditional & Modern Retailers Average Size and VAT Exemption Thresholds

Country	Trad Store Sales (Mill. USD)	Modern Store Sales (Mill. USD)	VAT Threshold (Mill. USD)	Ratio Traditional (/VAT)	Ratio Modern (/VAT)
Benin	0.06	2.61	0.09	0.76	30.57
Bolivia	0.03	5.63	0.03	1.19	204.84
Brazil	0.06	2.83	0.61	0.10	4.65
Burkina Faso	0.11	3.12	0.09	1.32	36.60
Burundi	0.04	0.75	0.05	0.71	13.87
Cameroon	0.06	2.51	0.09	0.76	29.43
Chad	0.13	2.57	0.17	0.76	15.08
Chile	0.05	7.11	0.03	1.64	227.28
Colombia	0.05	2.31	0.81	0.06	2.85
Comoros	0.10	0.47	0.05	0.76	15.08
Congo. DRC	0.04	0.92	0.05	0.90	19.01
Congo. Rep	0.09	4.39	0.10	0.87	42.84
Costa Rica	0.07	4.99	0.11	0.65	45.12
Dominican Republic	0.06	7.49	0.16	0.38	47.58
Ecuador	0.04	6.58	0.06	0.64	109.64
Eswatini	0.07	0.70	0.03	1.95	20.63
Mexico	0.04	1.93	0.10	0.35	18.55
Montenegro	0.12	1.04	0.20	0.57	5.16
Morocco	0.07	1.40	0.21	0.34	6.72
Mozambique	0.17	2.54	0.08	2.08	31.71
Niger	0.12	2.48	0.10	1.14	24.53
Papua NG	0.06	1.24	0.07	0.75	16.76
Paraguay	0.06	1.24	0.07	0.75	16.76
Peru	0.03	2.52	0.11	0.27	23.35
Rwanda	0.06	1.04	0.02	2.51	46.70
Sao Tome	0.06	0.10	0.02	2.04	4.17
Senegal	0.10	4.46	0.10	0.97	44.11
Serbia	0.11	1.19	0.08	1.45	15.64
South Africa	0.14	2.80	0.10	1.39	27.29
Tanzania	0.05	0.12	0.04	1.11	2.73
Tunisia	0.07	1.95	0.05	1.26	34.74
Uruguay	0.13	3.10	0.08	1.53	37.02
Mean	0.08	2.67	0.13	1.01	38.85

This table reports the average sales of traditional and modern stores in the 32 countries in our sample, based on Euromonitor reports. In addition, it reports the value of the VAT exemption threshold, based on country-reports produced by the International Bureau of Fiscal Documentation. The final two columns report the ratio of the average traditional and modern store sales-value to the VAT exemption threshold.

Table E7: Country-Specific Places of Purchase

BENIN				CAMEROON			
Assigned	%	Original name	Classification	Assigned	%	Original name	Classification
Formal	4.8	autre lieu d'achat formel sur le territoire	5 large stores	Formal	0.9	supermarche/grand magasin	5 large stores
	0.6	achat dans un supermarche	5 large stores		4.0	magasin specialistes	4 specialized shops
	0.9	achat dans un magasin ou un atelier formel	4 specialized shops		6.8	secteur transport	6 institutions
	0.7	achat dans un magasin ou un atelier formel	4 specialized shops		3.2	presetation de services publics	6 institutions
Informal	9.4	achat au secteur public ou parapublic	6 institutions	Informal	3.0	cliniques	6 institutions
	20.1	achat au domicile du vendeur, dans une pet	3 corner shops		5.1	hotels/bars/restaurants	8 entertainment
	21.0	achat sur un marche public	2 no store front		8.8	epiceries/boutiques/echoppes	3 corner shops
	19.2	achat chez un ambulant, ou poste fixe sur	2 no store front		22.4	marches	2 no store front
Formal	14.2	bien ou service autoproduit	1 non-market	Unspec.	3.2	kiosque de jeux et call box	2 no store front
	8.2	autre lieu d'achat informel (independant)	1 non-market		3.1	vente ambulante	2 no store front
					0.8	vendeurs specialises hors magasins	2 no store front
					15.2	don. cadeau recu	1 non-market
BOLIVIA				CHAD			
Formal	0.9	supermercado	5 large stores	Formal	0.7	supermarche	5 large stores
	11.8	tienda especializada	4 specialized shops		5.7	boutique	4 specialized shops
	3.6	instituto educativo	6 institutions		1.1	magasins	4 specialized shops
	1.3	institucionn de salud	6 institutions		4.6	autre prestataire de service privee	6 institutions
Informal	0.6	comunicacion	6 institutions	Unspec.	1.0	autre prestataire de service public	6 institutions
	1.5	hotel, bar, restaurante	8 entertainment		0.7	transport privee	6 institutions
	14.7	tienda de conveniencia	3 corner shops		0.7	enseignement privee	6 institutions
	19.7	mercado	2 no store front		0.6	prestataire service sante privee	6 institutions
Formal	4.0	feria	2 no store front	Unspec.	0.6	enseignement public	6 institutions
	3.6	puesto/kiosco	2 no store front		0.5	prestataire service sante public	6 institutions
	2.1	vendedor ambulante	2 no store front		1.6	hotel. restaurant. ..	8 entertainment
	1.9	de un hogar / transferencia	1 non-market		0.4	echoppe	3 corner shops
Unspec.	1.5	auto consumo	1 non-market	Informal	30.4	marche centraux	2 no store front
	5.6	cantina	9 informal entertainment		25.6	marche de quartier ou spécialiste	2 no store front
	25.8	other	99 n.a./other		2.5	marchand ambulant	2 no store front
					1.1	tablier	2 no store front
BRAZIL				Unspec.	16.7	self-consumption	1 non-market
Formal	14.0	supermarket	5 large stores		5.0	other	99 n.a./other
	1.0	department store	5 large stores	Formal	13.3	supermercados	5 large stores
	28.9	specialized shop	4 specialized shops		3.3	multitiendas	5 large stores
	8.4	vehicle	4 specialized shops		0.9	distribuidoras - mayoristas	5 large stores
Formal	5.2	pharmacy	4 specialized shops		26.5	tienda especializada	4 specialized shops
	3.3	education institution	6 institutions	Informal	4.9	comercio ambulante	4 specialized shops
	2.0	health institution	6 institutions		2.4	farmacias	4 specialized shops
	1.0	bank	6 institutions		1.6	ferreterias y multiferreterias	6 institutions
Informal	0.9	public health	6 institutions	Informal	2.0	clinicas	6 institutions
	0.8	internet	6 institutions		1.0	extranjero	6 institutions
	0.6	lottery	6 institutions		4.3	restaurantes y bares	8 entertainment
	0.5	communication company	6 institutions		5.4	almacen tradicional	3 corner shops
Informal	3.4	restaurant	8 entertainment	Unspec.	0.9	otros establecimientos	3 corner shops
	4.5	grocery store	3 corner shops		2.5	ferias libres	2 no store front
	1.8	street seller	2 no store front		30.3	other	99 n.a./other
	1.7	small market	2 no store front	Formal	33.0	almacenes o supermercados de cadena y tien	5 large stores
Formal	1.4	fair	2 no store front		9.9	hipermercados	5 large stores
	1.0	small shop	2 no store front		2.0	centrales mayoristas de abastecimiento	5 large stores
	0.7	own production,from other household	1 non-market		0.8	plazas de mercado y galerias	5 large stores
Unspec.	0.5	from farm	1 non-market	Informal	0.5	cooperativas. fondos de empleados y comisa	5 large stores
	13.7	private service	7 service from individual		10.7	farmacias y droguerias	4 specialized shops
	2.6	bar-cafe	9 informal entertainment		1.7	restaurantes	8 entertainment
	0.6	recreation events	9 informal entertainment		13.3	miscellAneas de barrio y cacharrerias	3 corner shops
Unspec.	0.1	other	99 n.a./other	Unspec.	4.6	tiendas de barrio	3 corner shops
					1.7	sanandresitos	2 no store front
					1.4	ferias especializadas: artesanal. del hoga	2 no store front
					1.1	persona particular	1 non-market
BURKINA FASO				Formal	0.9	transfers. from household	1 non-market
Formal	1.1	grands magasin	5 large stores		0.5	self production	1 non-market
	0.9	magasin de gros a petits prix	5 large stores		5.6	cafeterias y establecimientos de comidas	9 informal entertainment
	3.8	station service (lubrifiants)	4 specialized shops		10.5	other	99 n.a./other
Formal	1.8	pharmacie	4 specialized shops	Informal	11.1	autre lieu d'achat formel	5 large stores
	1.6	atelier, service reparation	4 specialized shops		2.2	supermarche	5 large stores
	3.8	ecole, lycees, universite privas	6 institutions		5.4	magasin. atelier formel (societe) tenu	4 specialized shops
	2.0	ecole, lycee, universite publics	6 institutions		2.6	magasin ou atelier formel (societe)	4 specialized shops
Informal	1.2	clinique, laboratoire medical public	6 institutions	Informal	5.9	secteur public ou parapublic	6 institutions
	0.9	telephone, eau, electricite	6 institutions		2.4	hors lieu de residence ou a l'etranger	6 institutions
	0.7	cabine telephone privee	6 institutions		31.6	domicile du vendeur. petite boutique	3 corner shops
	1.4	bar, cafe, restaurant, hotel	8 entertainment		20.6	marche public	2 no store front
Informal	12.4	boutique de quartier	3 corner shops	Unspec.	6.5	vendeur ambulant ou poste fixe sur voie	2 no store front
	1.2	quincallerie (petite taille)	3 corner shops		6.3	autre lieu d'achat informel	1 non-market
	38.6	marche	2 no store front		3.6	bien ou service autoproduit	1 non-market
	1.1	marchant ambulants	2 no store front		1.8	cadeau recu	1 non-market
Formal	0.7	kiosque ou echoppe quartier	2 no store front	Formal	0.5	achat supermarche	5 large stores
	11.0	menage	1 non-market		3.8	achat magasin non indo-pakistanaïs	4 specialized shops
	6.7	bien ou service autoproduit	1 non-market		3.2	achat magasin indo-pakistanaïs	4 specialized shops
	1.5	cadeau recu en nature ou en espace	1 non-market		3.1	achat secteur public	6 institutions
Unspec.	2.5	autres service privas	7 service from individual	Informal	36.5	achat marche public	2 no store front
	1.3	service de transport prive	7 service from individual		10.1	achat ambulant	2 no store front
	0.4	other	99 n.a./other		5.8	autre lieu informel	2 no store front
					17.9	achat domicile	1 non-market
BURUNDI				Unspec.	17.5	bien ou service autoproduit	1 non-market
Formal	5.5	autre lieu d'achat formel	5 large stores		1.4	cadeau recu	1 non-market
	1.4	magasin, atelier formel (societe) tenu	4 specialized shops		0.1	other	99 n.a./other
	0.7	magasin ou atelier formel (societe)	4 specialized shops				
Informal	3.3	secteur public ou parapublic	6 institutions	Formal	0.5	achat supermarche	5 large stores
	0.7	hors lieu de residence ou a l'etranger	6 institutions		3.8	achat magasin non indo-pakistanaïs	4 specialized shops
	17.7	autre lieu d'achat informel	3 corner shops		3.2	achat secteur public	6 institutions
	29.6	marche public	2 no store front		36.5	achat marche public	2 no store front
Formal	24.7	domicile du vendeur, petite boutique	2 no store front	Informal	10.1	achat ambulant	2 no store front
	4.7	vendeur ambulant ou poste fixe sur voie	2 no store front		5.8	autre lieu informel	2 no store front
	10.5	bien ou service autoproduit	1 non-market		17.9	achat domicile	1 non-market
	1.1	cadeau recu	1 non-market		17.5	bien ou service autoproduit	1 non-market

COSTA RICA				ESWATINI			
Assigned	%	Original name	Classification	Assigned	%	Original name	Classification
Formal	17.0	supermercado	5 large stores	Formal	27.6	supermarket	5 large stores
	1.3	tienda de departamentos	5 large stores		5.6	clothes/footwear/linen	4 specialized shops
	11.3	local especializado	4 specialized shops		1.7	hardware store	4 specialized shops
	4.2	gasolinera y estacion de servicio	4 specialized shops		1.4	butchery	4 specialized shops
	3.6	tienda de ropa, zapateria, perfumeria	4 specialized shops		5.8	grocery	3 corner shops
	1.1	carniceria pescaderia	4 specialized shops	Informal	0.6	spaza	3 corner shops
	1.0	salones de estetica o belleza	4 specialized shops		4.0	street vendor	2 no store front
	1.9	laboratorio, clinica, centro medico	6 institutions		1.9	market	2 no store front
	1.1	en el exterior	6 institutions		7.0	self production	1 non-market
	3.9	restaurante, soda, cafeteria, heladeria	8 entertainment		5.5	gifts/transfers	1 non-market
	3.4	almacen de electrodomesticos y de tecnol	8 entertainment	Unspec.	38.8	other	99 n.a./other
	1.7	comedor en lugar de trabajo	8 entertainment				
	0.8	retiro del negocio	8 entertainment				
Informal	6.2	pulperia o minisuper	3 corner shops	Formal	11.5	supermercados	5 large stores
	2.4	vendedor ambulante o a domicilio	2 no store front		2.1	tiendas departamentales	5 large stores
	0.8	local de articulos usados	2 no store front		1.0	tiendas con membresia	5 large stores
Unspec.	8.9	recibido o comprado a otros hogares	1 non-market		21.3	tiendas especificas del ramo	4 specialized shops
	25.1	other	99 n.a./other		0.7	diconsa	6 institutions
					0.5	compras fuera del pais	6 institutions
DOMINICAN REPUBLIC					2.4	restaurantes	8 entertainment
Formal	3.9	tienda por departamentos	5 large stores		12.9	tiendas de abarrotes	3 corner shops
	3.6	supermercados	5 large stores	Informal	0.6	tiendas de conveniencia	3 corner shops
	2.3	farmacias	4 specialized shops		5.7	persona particular	2 no store front
	1.4	salon de belleza	4 specialized shops		3.7	mercado	2 no store front
	1.2	tienda de ropa	4 specialized shops		3.1	vendedores ambulantes	2 no store front
	1.2	tienda de electrodomesticos	4 specialized shops		2.0	tianguis o mercado sobre ruedas	2 no store front
	1.1	taller de mecanica en general, desabulladu	4 specialized shops		2.6	loncherias, fondas, torterias, cocina	9 informal entertainment
	1.0	ferreterias	4 specialized shops	Unspec.	29.2	other	99 n.a./other
	0.8	carniceria	4 specialized shops				
	0.7	tienda de respuestos de vehiculos	4 specialized shops				
	0.6	puesto de rifa de aguante y loteria electr	4 specialized shops	Formal	17.2	supermarket	5 large stores
	0.5	peluqueria	4 specialized shops		36.2	store	4 specialized shops
	3.5	estacionn de gasolina	6 institutions	Informal	5.3	stall	2 no store front
	2.0	clinica	6 institutions		5.3	own production	1 non-market
	1.9	envasadora de gas	6 institutions	Unspec.	35.8	other	99 n.a./other
	1.8	comedor popular	6 institutions				
	1.7	corporacion de electricidad	6 institutions				
	1.5	colegio	6 institutions	Formal	0.7	supermarket or hypermarket	5 large stores
	1.3	hospitales	6 institutions		5.2	butcher or retail chicken seller	4 specialized shops
	1.2	compania de telefonos	6 institutions		3.1	pharmacy	4 specialized shops
Informal	20.5	colmado	3 corner shops		1.9	craftsman s shop (hairstresser. tailor. etc	4 specialized shops
	0.7	almacen de provisiones	3 corner shops		1.7	shop for selling furniture and durable ite	4 specialized shops
	3.2	vendedora ambulante	2 no store front		1.4	modern clothes shop	4 specialized shops
	1.2	mercados	2 no store front		1.0	gas stations (benzine. etc.)	4 specialized shops
	1.0	puestos de venta	2 no store front		0.8	bookshop (small bookshop or kiosk in the n	4 specialized shops
	0.6	picapollo	2 no store front		0.7	pastry shop. bakery or snack-bars	4 specialized shops
	1.9	autosuministro	1 non-market		0.5	retail fish seller	4 specialized shops
Unspec.	1.5	cafeteria	9 informal entertainment		6.4	public and semi public agencies	6 institutions
	29.5	other	99 n.a./other		2.1	regular transportation means (bus. train.	6 institutions
					2.1	medical care in a private institution	6 institutions
ECUADOR					1.2	public administration	6 institutions
Formal	4.1	supermercados de cadena	5 large stores		1.1	public baths. shower. swimming pool	6 institutions
	1.2	hipermercados	5 large stores		0.7	private education institution	6 institutions
	4.2	ropa de todo tipo	4 specialized shops	Informal	0.5	banks. financing institutions and insuranc	6 institutions
	2.2	electrodomesticos y accesorios	4 specialized shops		16.2	neighbourhood or village grocer	3 corner shops
	2.0	calzado de todo tipo	4 specialized shops		3.1	grocers	3 corner shops
	1.8	otros sitios de compra especializados	4 specialized shops		0.5	greengrocers	3 corner shops
	1.4	librerias y papelerias	4 specialized shops		17.9	weekly market	2 no store front
	1.2	panaderas	4 specialized shops		4.4	neighbourhood market	2 no store front
	1.2	maticas automotrices	4 specialized shops		2.0	itinerant merchant selling on sidewalks	2 no store front
	1.1	gasolineras	4 specialized shops		0.9	city market or central market	2 no store front
	1.0	salas de belleza	4 specialized shops		4.7	self-production	1 non-market
	0.8	muebles y enceres	4 specialized shops		1.2	cafe. non standing restaurant	9 informal entertainment
	0.6	tercena/carnicera	4 specialized shops	Unspec.	13.8	other	99 n.a./other
	0.5	repuestos de automotores	4 specialized shops				
	5.2	boticas y farmacias	4 specialized shops				
	5.0	establecimientos educativos	6 institutions	Formal	35.8	outro	4 specialized shops
	2.3	transporte de pasajeros	6 institutions		11.5	loja	4 specialized shops
	2.2	establecimientos privados de salud	6 institutions	Informal	16.5	mercado informal	2 no store front
	1.9	servicios profesionales (abogados. arqu)	6 institutions		11.9	mercado	2 no store front
	1.2	venta por catalogo o television	6 institutions		24.0	auto produco	1 non-market
	0.9	bahas, ipiales	6 institutions				
	0.6	instituciones publicas	6 institutions				
	0.6	aseguradoras	6 institutions	Formal	0.1	supermarche/grand magasin	5 large stores
	2.4	restaurantes, salones	8 entertainment		3.1	secteur transport	6 institutions
	0.5	centros. serv. de recreacion. estadios	8 entertainment	Informal	1.4	clinique. laboratoire. ecole	6 institutions
Informal	13.1	tiendas de barrio	3 corner shops		32.8	epicerie. boutique	3 corner shops
	1.6	bodegas, distribuidores	3 corner shops		19.2	marche	2 no store front
	10.6	mercados	2 no store front		4.8	vente ambulante	2 no store front
	2.1	vendedores ambulantes	2 no store front		17.6	auto production	1 non-market
	1.1	ferias libres	2 no store front		9.7	prestation services publiques	1 non-market
	11.4	productos autoconsumo. autosuministro	1 non-market		3.8	cadeau recu	1 non-market
Unspec.	1.0	personas particulares	7 service from individual		6.6	prestation service individuels	7 service from individual
	8.5	other	99 n.a./other				

PAPUA NEW GUINEA				SAO TOME			
Assigned	%	Original name	Classification	Formal	5.4	grandes lojas	5 large stores
Formal	34.5	supermarket	5 large stores		5.4	lojas modernas	5 large stores
Informal	9.4	small shop. canteen. tuck shop	3 corner shops		1.3	outros comercios modernos	4 specialized shops
	10.5	local market	2 no store front		0.8	sector de transportes	6 institutions
	3.8	street vendor	2 no store front		1.0	hotels. restaurantes. bares. cafes	8 entertainment
	14.2	home production	1 non-market	Informal	33.6	quiosque / quitanda	3 corner shops
	10.2	gift	1 non-market		23.9	mercado	2 no store front
Unspec.	17.6	other	99 n.a./other		7.8	vendedor ambulante	2 no store front
PARAGUAY					5.9	agregados	1 non-market
Formal	13.2	supermercado	5 large stores		4.5	prestates de servicios publicos	1 non-market
	4.4	estacion de servicio	4 specialized shops		1.9	auto consumo	1 non-market
	2.8	farmacia	4 specialized shops		0.9	campo. mato	1 non-market
	1.6	empresa de transporte	4 specialized shops		0.6	autoabastecimento	1 non-market
	1.5	carniceria	4 specialized shops		3.8	prestates de servicios individuais	7 service from individual
	0.7	muebleria	4 specialized shops	Unspec.	1.6	candongueiro	7 service from individual
	0.6	joyerias	4 specialized shops		0.1	other	99 n.a./other
	0.6	peluqueria	4 specialized shops	Assigned	%	Original name	Classification
	0.6	libreria	4 specialized shops	Formal	0.4	magasins de gros ou a prix reduits	5 large stores
	2.8	cubierto por el seguro	6 institutions		2.6	station service (carburants. lubrifiants.e	4 specialized shops
	0.8	instituto	6 institutions		1.0	boulangerie, patisserie	4 specialized shops
Informal	1.4	restaurantes y o bares	8 entertainment		0.6	boucherie	4 specialized shops
	13.6	despensa	3 corner shops		1.1	societe de telefonie et de distributi	6 institutions
	4.8	puesto fijo	3 corner shops		0.9	service de transport public	6 institutions
	2.4	tienda	3 corner shops	Informal	0.5	ecole. lycee. universitee privs	6 institutions
	2.6	ambulante	2 no store front		7.4	bar, cafe, restaurant, hotel	8 entertainment
	1.9	mercado	2 no store front		34.7	boutique de quartier	3 corner shops
	4.8	regalado o pagado por algien miembro de	1 non-market		28.5	marches	2 no store front
	3.7	producido por el hogar	1 non-market		6.9	kiosque ou échoppe au quartier	2 no store front
	2.4	regalado o donado por algien programa so	1 non-market		1.0	marchand ambulant	2 no store front
	2.2	retirado del negocio	1 non-market		2.2	cadeau recu en nature	1 non-market
	1.5	como parte de pago a un miembro del hogar	1 non-market		1.2	bien ou service autoproduit	1 non-market
	3.0	consultorio privado	7 service from individual	Unspec.	4.6	service de transport privé	7 service from individual
Unspec.	22.4	other	99 n.a./other		1.3	autres services privs	7 service from individual
PERU					1.7	other	99 n.a./other
Formal	2.0	supermercado	5 large stores	Formal	8.9	hypermarket	5 large stores
	0.6	bodega (x mayor)	5 large stores		23.8	specialized shop	4 specialized shops
	3.4	tienda especializada al por menor	4 specialized shops	Informal	2.9	discounted shop	4 specialized shops
	2.1	farmacia	4 specialized shops		29.6	minimarket	3 corner shops
	0.5	libreria	4 specialized shops		4.8	market/open	2 no store front
	2.0	empresas de transporte formales	6 institutions	Unspec.	1.8	gray economy	2 no store front
	0.9	centro de estudios	6 institutions		5.3	own production/own business	1 non-market
Informal	0.8	grifos de empresas	6 institutions		2.2	gifts/received transfers	1 non-market
	0.6	restaurantes y/bares	8 entertainment		20.7	other	99 n.a./other
	8.7	bodega (x menor)	3 corner shops	Formal	38.6	chain store	5 large stores
	14.2	mercado (x menor)	2 no store front	Informal	11.2	other retailer	4 specialized shops
	2.9	ambulante	2 no store front		2.7	other	2 no store front
	2.0	mercado (x mayor)	2 no store front		0.9	street trading	2 no store front
	1.6	feria	2 no store front	Unspec.	0.6	from a household	1 non-market
Unspec.	13.8	self-consumption	1 non-market		45.7	other	99 n.a./other
	34.6	other	99 n.a./other	Formal	0.8	duka kubwa(department stores)	5 large stores
REPUBLIC OF CONGO				Informal	36.9	shop	4 specialized shops
Formal	1.0	grands magasins	5 large stores		15.8	market	2 no store front
	7.0	autres commerces modernes	4 specialized shops		2.5	street vendor	2 no store front
	5.8	prestataires de services publics	6 institutions		25.0	produced by household	1 non-market
	3.9	secteur transports	6 institutions		4.1	other household	1 non-market
	2.5	cliniques, laboratoires médicaux	6 institutions	Unspec.	1.3	gift or free	1 non-market
	3.9	hotels. restaurants. bars. cafes	8 entertainment		5.5	other	99 n.a./other
Informal	3.4	epicerie modernes	3 corner shops	Formal	1.2	hyper, supermarche	5 large stores
	42.8	marches	2 no store front	Informal	60.4	boutique privee	4 specialized shops
	8.4	échoppes sur marches et sur bord de route	2 no store front		4.2	ambulant	2 no store front
	6.2	marchands ambulants	2 no store front		1.1	point de vente marche	2 no store front
	4.5	produit autoconsommes	1 non-market		1.5	cadeau	1 non-market
	3.9	ménages	1 non-market	Unspec.	1.2	auto production	1 non-market
	5.5	prestataires de services individuels	7 service from individual		30.3	other	99 n.a./other
RWANDA				Formal	11.7	autoservicio. cadena de supermercados	5 large stores
Formal	0.5	supermarket/big shop	5 large stores		1.0	shopping o galeria	5 large stores
	3.8	specialized shop	4 specialized shops		2.6	carniceria. polleria. pescaderia	4 specialized shops
Informal	4.9	bar/restaurant	8 entertainment		2.3	merceria. tienda	4 specialized shops
	18.4	small shop/boutique	3 corner shops		1.5	panaderia. confiteria	4 specialized shops
	12.0	market	2 no store front		1.3	casa de electrodomesticos. telefonos	4 specialized shops
	2.0	individual	2 no store front		0.9	zapateria. marroquineria. talabarteria	4 specialized shops
	0.9	mobile seller	2 no store front		0.7	farmacia. perfumeria. panalera	4 specialized shops
	25.7	self production	1 non-market		0.7	verduleria. puesto. fruteria	4 specialized shops
	3.0	from a household	1 non-market	Informal	0.8	fuera del pais	6 institutions
Unspec.	11.2	service provider	7 service from individual		0.8	restaurant. parrillada	8 entertainment
	17.8	other	99 n.a./other		0.5	cantina. trabajo. colegio	8 entertainment
					7.7	almacen	3 corner shops
				Unspec.	1.5	feria vecinal	2 no store front
					1.0	vendedor ambulante. puesto callejero. carr	2 no store front
					0.7	quiosco. salon	2 no store front
					0.8	bar. pizzeria	9 informal entertainment
					59.9	other	99 n.a./other