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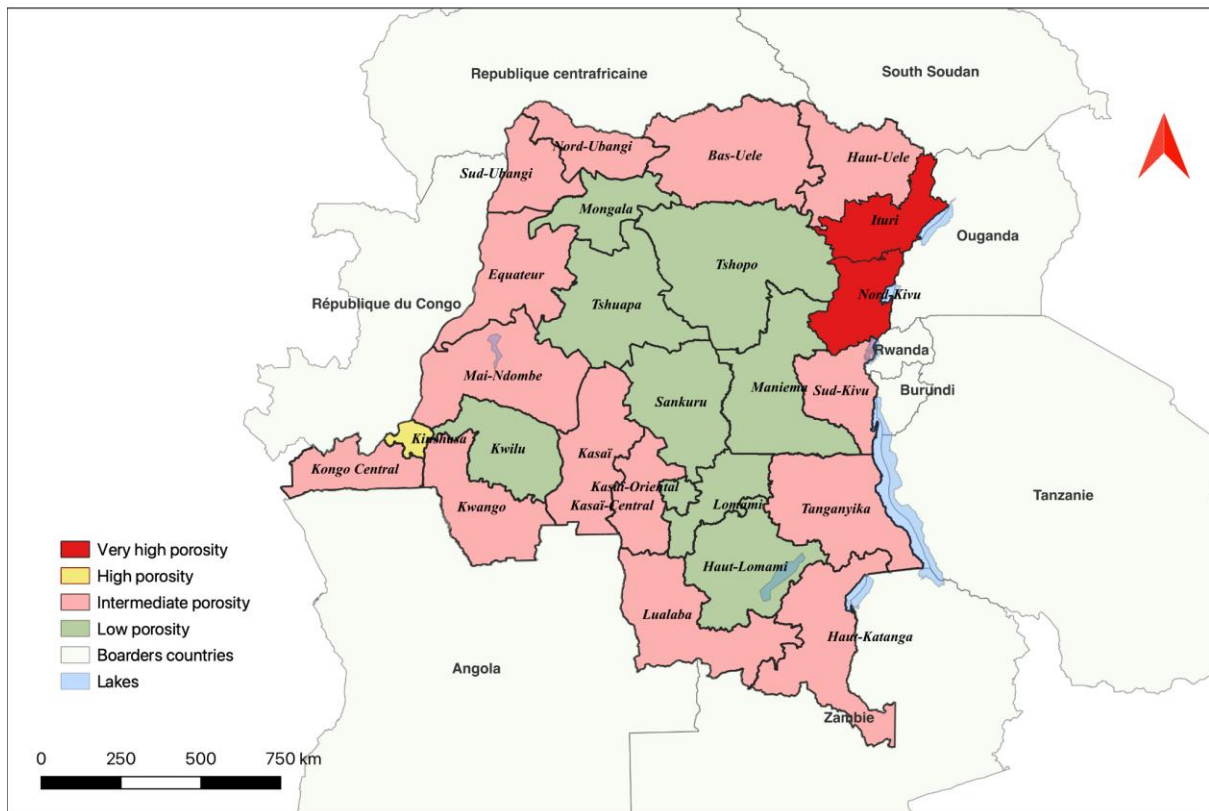
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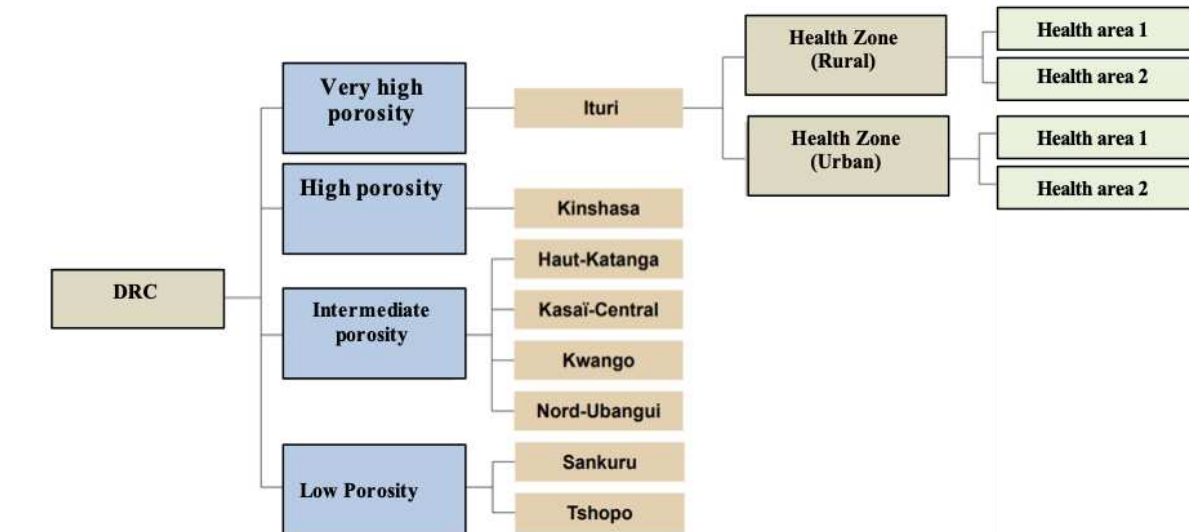
S1 Fig. Provinces by strata



Data source: humdata.org

Authors: RISD & SRD Lab

S2 Fig. Illustration of sampling provinces, health zones and health areas by stratum



S1 Table. Participating health zones and health areas by province and urban/rural classification

Province	Urban/rural	Health Zone	Health Area
Haut Katanga	Rural	Kambove	Dikula
			Kiwewe
	Urban	Tshamilemba	Cimenkat
			Rail
Kinshasa	Urban	Binza Ozone	Munganga
			Mama Yemo
	Rural	Mount Ngafula 2	Kimbondo
			Antenne
Tshopo	Urban	Mangobo	Tp Maman Mwilu
			Tp Profession
	Rural	Banalia	Mosanda
			Babise
Sankuru	Rural	Minga	Engo Dihoka
			Ohale
	Urban	Lusambo	Lusambo Ouest
			Lusambo Est
Kwango	Urban	Zs Kenge	Saint Esprit
			Cbco
	Rural	Zs Kahemba	Bumba
			Tshifwameso

Kasaï-Central	Urban	Bobozo	District Est
			Kamayi
	Rural	Bilomba	Tshikupela
			Kabawu
Ituri	Urban	Bunia	Mudzi Maria
			Bunia Cité
	Rural	Rethy	Gudjo
			Mbr'bu
Nord Ubangui	Urban	Gbadolite	Bolingo
			Gbadolite
	Rural	Bosobolo	Kwala
			Bok.Pombo

S2 Table. Proportion of illicit empty packs by type of collection point, porosity and province with all imported yellow stamps as illicit

Porosity	Collection points							
	Stationary retailer		Mobile retailer		Garbage bins/streets		Total	
	Illicit n % (95% CI)	Total	Illicit n % (95% CI)	Total	Illicit n % (95% CI)	Total	Illicit n % (95% CI)	Total
Very high								
Ituri	1,057	1,333	21	29	102	117	1,180	1,479
	79.3 (77.0, 81.4)		72.4 (52.8, 87.3)		87.2 (79.7, 92.6)		79.8 (77.6, 81.8)	
High								
Kinshasa	656	918	383	524	218	298	1,257	1,740
	71.5 (68.4, 74.4)		73.1 (69.1, 76.8)		73.2 (67.7, 78.1)		72.2 (70.1, 74.3)	
Intermediate	1,612	3,702	414	941	686	1,059	2,712	5,702
	43.5 (41.9, 45.2)		44.0 (40.8, 47.2)		64.8 (61.8, 67.6)		47.6 (46.3, 48.9)	
Haut-Katanga	278	424	43	129	217	361	538	914

	65.5 (60.8, 70.1)		33.3 (25.3, 42.2)		60.1 (54.9, 65.2)		58.9 (55.6, 62.1)	
Kasai-central	380	878	133	326	76	183	589	1,387
	43.3 (40.0, 46.6)		40.8 (35.4, 46.3)		41.5 (34.3, 49.0)		42.5 (39.8, 45.1)	
Kwango	582	879	238	486	375	448	1,195	1,813
	66.2 (63.0, 69.3)		49.0 (44.4, 53.5)		83.7 (80.0, 87.0)		65.9 (63.7, 68.1)	
Nord-Ubangi	372	1,521	0	0	18	67	390	1,588
	24.5 (22.3, 26.7)		// (//)		26.9 (16.8, 39.1)		24.6 (22.5, 26.8)	
Low	217	1,163	5	28	95	510	317	1,701
	18.7 (15.3, 22.3)		17.9 (6.1, 36.9)		18.6 (15.3, 22.3)		18.6 (16.8, 20.6)	
Sankuru	145	387	5	10	70	186	220	583
	37.5 (32.6, 42.5)		50.0 (18.7, 81.3)		37.6 (30.7, 45.0)		37.7 (33.8, 41.8)	
Tshopo	72	776	0	18	25	324	97	1,118
	9.3 (7.3, 11.5)		0.0 (0.0, 19.0)		7.7 (5.1, 11.2)		8.7 (7.1, 10.5)	
Total	3,542	7,116	823	1,522	1,101	1,984	5,466	10,622
	49.8 (48.6, 50.9)		54.1 (51.5, 56.6)		55.5 (53.3, 57.7)		51.5 (50.5, 52.4)	

S3 Table. Proportion of illicit empty packs by rural/urban, area-level income group, brand and country of origin with all imported yellow stamps as illicit

	Total packs collected	Number of illicit packs	Proportion of illicit packs
Urban/rural			
Rural	2,704	1,296	47.9
Urban	7,918	4,170	52.7
Area-level income group			
High-income	3,492	2,052	58.8
Low-income	7,130	3,414	47.9
Brand			
Supermatch	894	504	56.4
Oris	532	439	82.5
Pall Mall	1,238	1,188	96.0
Monte Carlo	1,914	1,913	100.0
Stella	546	541	99.1
Business	147	147	100.0
Caesar	120	4	3.3
Ambassade	240	240	100.0
Elite	525	0	0.0
Equateur	2,109	0	0.0
Master	1,809	0	0.0
Portsman	262	257	0.0
Other brands	286	233	81.5

Country of origin			
DRC	4,834	0	0.0
Uganda	403	403	100.0
United Arab	743	641	86.2
Emirates			
South Sudan	64	64	100.0
Kenya	2,108	2,052	97.3
India	16	16	100.0
Tanzania	2,178	2,173	99.8
South Africa	162	5	3.1
Angola	36	36	100.0
Zimbabwe	72	72	100.0
Other country	6	4	66.7
Total	10,622	5,466	51.5

S4 Table. Proportion of illicit empty packs by type of collection point and illicit criteria with all imported yellow stamps as illicit

Criteria	Type of collection point							
	Stationary retailer		Mobile retailer		Garbage bins/streets		Total	
	Illicit n (%)	Total	Illicit n (%)	Total	Illicit n (%)	Total	Illicit n (%)	Total
Tax stamp requirements	3,542 (49.8)	7,116	823 (54.1)	1,522	1,101 (55.5)	1,984	5,466 (51.5)	10,622
Written health warning	656 (9.2)	7,116	29 (1.9)	1,522	163 (8.2)	1,984	848 (8.0)	10,622
Notice of prohibition of sale to and by minors	505 (7.1)	7,116	6 (0.4)	1,522	87 (4.4)	1,984	598 (5.6)	10,622
Tar and nicotine content	435 (6.1)	7,116	0 (//)	1,522	47 (2.4)	1,984	482 (4.5)	10,622