COUNTRY EXPOSURE MODEL

Review main statistic of a exposure model and create summaries for a given Country.

/home/risk/venvs/py38w/lib/python3.8/site-packages/geopandas/_compat.py:111: UserWarning: The S hapely GEOS version (3.9.1-CAPI-1.14.2) is incompatible with the GEOS version PyGEOS was compil ed with (3.10.1-CAPI-1.16.0). Conversions between both will be slow. warnings.warn(

Parameters
country = "Djibouti"

Exposure files:

Exposure_Com_Djibouti.csv Exposure_Ind_Djibouti.csv Exposure Res Djibouti.csv

Sanity checks and formats

Djibouti

Exposure/Exposure/Exposure_Com_Djibouti.csv Exposure/Exposure/Exposure_Ind_Djibouti.csv Exposure/Exposure/Exposure_Res_Djibouti.csv Occupants / Dwellings = 6.2 Reference avg household size (2019) = 6.3 Population (exposure / UN_2021) = 0.98 Exposure models OK

Exposure at National level

OCCUPANTS

Summary by occupancy type

OCCUPANCY			-	-	
Res	983.5K	155,848	\$1,643.0M	96.28%	83.21%
Ind	0.0K	983	\$72.7M	0.61%	3.68%
Com	0.0K	5,044	\$258.7M	3.12%	13.10%

BUILDINGS

Other metrics to consider AREA_SQM COST_BUILDING_USD AVG_BUILDING_AREA_SQM AVG_COST_PER_AREA_USD

OCCUPANCY

COST_USD_%

COST USD

BUILDINGS %

BUILDINGS_%

COST_USD BUILDINGS COST_USD_% BUILDINGS_%

1,015

132

646

0.95%

0.85%

0.76%

0.65%

0.08%

0.42%

COST USD %

OCCUPANTS_%

Total	11,968.1K	\$1,559.2M	74	\$165
Res	10,853.9K	\$1,325.7M	70	\$151
Ind	266.0K	\$48.4M	271	\$273
Com	848.2K	\$185.1M	168	\$305

COST_USD BUILDINGS OCCUPANTS

Exposure summary at Admin level 1

NAME_1						
Djibouti	\$1,040.1M	84.7K	515.0K	52.68%	52.33%	52.36%
Tadjourah	\$282.9M	23.2K	141.1K	14.33%	14.36%	14.35%
Ali Sabieh	\$258.7M	21.3K	129.3K	13.10%	13.14%	13.14%
Dikhil	\$190.1M	15.7K	95.5K	9.63%	9.72%	9.71%
Obock	\$115.4M	9.6K	58.2K	5.84%	5.92%	5.92%
Arta	\$87.2M	7.3K	44.4K	4.42%	4.53%	4.51%

Adding `MACRO_TAXO` column COST_USD BUILDINGS OCCUPANTS COST_USD_% BUILDINGS_% OCCUPANTS_%

Exposure by simplified taxonomy

-IACRO TAXO

MACRO_TAXO						
MUR	\$647.2M	30,819	183,677	32.78%	19.04%	18.68%
W	\$481.3M	28,185	162,760	24.38%	17.41%	16.55%
ADO/E	\$453.3M	<mark>3</mark> 6,912	230,716	22.96%	22.80%	23.46%
ОТ	\$295.6M	63,664	392,535	14.97%	39.33%	39.91%
MCF	\$46.6M	1,469	9,304	2.36%	0.91%	0.95%
RC	\$26.2M	587	4,504	1.33%	0.36%	0.46%
S	\$24.2M	239	0	1.23%	0.15%	0.00%

Showing only taxonomies that represent 90% of the total `COST_USD` COST_USD BUILDINGS

Exposure by taxonomy

MACRO_TAXO TAXONOMY

ОТ	ME+MEO/LWAL+CDN/H:1/RES	\$248.4M	53,499	13.99%	34.45%
W	W+WLI/LWAL+CDL/H:1/RES	\$248.2M	19,494	13.99%	12.55%
MUR	MUR+CB/LWAL+CDN/H:2/RES	\$196.4M	9,394	11.07%	6.05%
ADO/E	MUR+ADO/LWAL+CDN/H:2/RES	\$184.6M	9,811	10.40%	6.32%
W	W+WLI/LWAL+CDL/H:2/RES	\$1 36.3M	6,334	7.68%	4.08%
MUR	MUR+CB/LWAL+CDN/H:1/RES	\$119.3M	9,635	6.72%	6.20%
ADO/E	MUR+ADO/LWAL+CDN/H:1/RES	\$112.1M	10,063	6.32%	6.48%
ADO/E	EWV/LN+CDN/H:1/RES	\$70.7M	15,231	3.98%	9.81%
w	W+WLI/LWAL+CDL/H:1/COM	\$64.3M	1,643	3.62%	1.06%
ОТ	MATO/RES	\$47.2M	10,165	2.66%	6.54%
	MUR+CL/LWAL+CDN/H:2/RES	\$45.4M	2,171	2.56%	1.40%
MUR	MUR+CB/LWAL+CDN/H:2/COM	\$31.0M	357	1.74%	0.23%
MOR	MUR+CB/LWAL+CDN/H:1/COM	\$30.3M	718	1.71%	0.46%
	MUR+CL/LWAL+CDN/H:1/RES	\$27.6M	2,224	1.55%	1.43%
ADO/E	MUR+ADO/LWAL+CDN/H:2/COM	\$27.2M	392	1.53%	0.25%
ADO/L	MUR+ADO/LWAL+CDN/H:1/COM	\$26.5M	784	1.49%	0.50%
MUR	MUR+CB/LWAL+CDN/HBET:3- 6/RES	\$25.7M 126		1.45%	0.08%
ADO/E	MUR+ADO/LWAL+CDN/HBET:3- 6/RES	\$24.1M	132	1.36%	0.08%
w	W+WLI/LWAL+CDL/H:2/COM	\$22.0M	277	1.24%	0.18%
MUR	MUR+CB/LWAL+CDN/H:1/IND	\$21.1M	398	1.19%	0.26%
MCF	MCF+CL/LWAL+CDL/H:2/RES	\$21.1M	672	1.19%	0.43%

\$16.9M

\$15.0M

\$13.5M

MUR+STRUB/LWAL+CDN/H:2/RES

MUR+CB/LWAL+CDN/H:2/IND

MUR+MO/LWAL+CDN/H:2/RES

MUR