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 = "Guinea Bissau"

Exposure files:

Exposure_Com_Guinea_Bissau.csv Exposure_Ind_Guinea_Bissau.csv Exposure_Res_Guinea_Bissau.csv

Sanity checks and formats

Guinea_Bissau

OCCUPANCY

Res

Res

Ind

Com

MACRO_TAXO

Exposure/Exposure_Com_Guinea_Bissau.csv ${\tt Exposure/Exposure_Ind_Guinea_Bissau.csv}$ Exposure/Exposure_Res_Guinea_Bissau.csv Occupants / Dwellings = 8.2 Reference avg household size (2019) = 8.3Population (exposure / UN 2021) = 0.98Exposure models OK

Exposure at National level

1,966.0K

Summary by occupancy type **OCCUPANTS**

Ind	0.	0K 2,275	\$238.9M	0.95% 4.36%					
Com	0.	0K 8,879	\$658.7M	3.70% 12.03%					
Other metrics to consider									
	AREA_SQM	COST_BUILDING_USD	AVG_BUILDING_AREA_SQM	AVG_COST_PER_AREA_USD					
OCCUPANCY									
Total	20 514 6K	\$4 458 1M	86	\$267					

COST_USD

\$4,579.4M

BUILDINGS_%

80

280

184

BUILDINGS_%

95.35%

COST_USD_%

83.61%

\$251

\$375

\$404

OCCUPANTS_%

BUILDINGS_% OCCUPANTS_%

BUILDINGS

228,757

\$3,809.7M

\$157.6M

\$490.8M

COST_USD **BUILDINGS OCCUPANTS** COST_USD_%

Exposure summary at Admin level 1

18,246.3K

636.8K

1,631.5K

NAME_1						
Bissau	\$1,551.7M	67,753	555.3K	28.33%	28.24%	28.24%
Gabu	\$785.7M	34,332	281.4K	14.35%	14.31%	14.31%
Oio	\$774.6M	33,858	277.4K	14.14%	14.11%	14.11%
Bafat�	\$731.2M	31,994	262.1K	13.35%	13.34%	13.33%
Cacheu	\$625.2M	27,386	224.5K	11.42%	11.42%	11.42%
Biombo	\$389.4M	17,113	140.3K	7.11%	7.13%	7.13%
Tombali	\$308.8M	13,596	111.5K	5.64%	5.67%	5.67%
Quinara	\$204.4M	9,055	74.2K	3.73%	3.77%	3.77%
Bolama	\$106.0M	4,824	39.4K	1.94%	2.01%	2.01%

Adding `MACRO_TAXO` column COST_USD **BUILDINGS OCCUPANTS**

Exposure by simplified taxonomy

\$1,929.1M 86,726 715.3K 35.22% 36.15% ADO/E 36.38%

COST_USD_%

COST_USD BUILDINGS COST_USD_% BUILDINGS_%

0.78%

0.75%

0.73%

2.69%

0.65%

0.13%

MUR	\$1,889.9M	67,008	527.9K	34.51%	27.9 <mark>3</mark> %	26. 85%
w	\$1,089.4M	68,621	577.8K	19.89%	28.60%	29.39%
RC	\$240.1M	3,747	38.2K	4.38%	1.56%	1.94%
MCF	\$196.2M	4,667	38.1K	3.58%	1.95%	1.94%
S	\$79.4M	568	0.0K	1.45%	0.24%	0.00%
ОТ	\$53.0M	8,574	68.6K	0.97%	3.57%	3.49%
Exposure by taxonomy						
Showing only taxonomies that represent 90% of the total `COST_USD`						

MACRO_TAXO

OT

MCF

MUR

ME+MEO/LWAL+CDN/H:1/RES

 ${\sf MCF+CB/LWAL+CDL/H:1/RES}$

MUR+CL/LWAL+CDN/H:2/COM

\$900.1M 35.943 18.31% 15.64% MUR+ADO/LWAL+CDN/H:2/RES ADO/E

TAXONOMY

ADO/E	MUNTADO/LWALTCDN/H:2/RE3	⊅900.1№	33,943	10.51%	13.0470
W	W+WWD/LWAL+CDN/H:1/RES	\$56 5.8M	45,796	11.51%	19.92%
ADO/E	MUR+ADO/LWAL+CDN/H:1/RES	\$54 <mark>6.6M</mark>	36,862	11.12%	16.04%
MUR	MUR+CB/LWAL+CDN/H:2/RES	\$524.7M	18,858	10.67%	8.20%
W	W+WWD/LWAL+CDN/H:2/RES	\$399.4M	19,137	8.12%	8.33%
MUR	MUR+CB/LWAL+CDN/H:1/RES	\$318.6M	19,342	6.48%	8.41%
MOK	MUR+CL/LWAL+CDN/H:2/RES	\$226.1M	8,127	4.60%	3.54%
ADO/E	MUR+ADO/LWAL+CDN/H:2/COM	\$146.4M	1,580	2.98%	0.69%
ADO/L	MUR+ADO/LWAL+CDN/H:1/COM	\$142.6M	3,155	2.90%	1.37%
MUR	MUR+CL/LWAL+CDN/H:1/RES	\$137.3M	8,333	2.79%	3.63%
ADO/E	MUR+ADO/LWAL+CDN/HBET:3- 6/RES	\$119.0M	484	2.42%	0.21%
	MUR+STDRE/LWAL+CDN/H:2/RES	\$85.7M	3,078	1.74%	1.34%
MUR	MUR+CB/LWAL+CDN/H:2/COM	\$85.5M	739	1.74%	0.32%
	MUR+CB/LWAL+CDN/H:1/COM	\$83.3M	1,478	1.69%	0.64%
RC	CR/LFINF+CDL/H:3/RES	\$80.2M	1,326	1.63%	0.58%
MUR	MUR+CB/LWAL+CDN/HBET:3- 6/RES	\$69.4M	254	1.41%	0.11%
RC	CR/LFINF+CDL/H:2/RES	\$65.3M	1,665	1.33%	0.72%
MCF	MCF+CB/LWAL+CDL/H:2/RES	\$60.9M	1,457	1.24%	0.63%
MUR	MUR+CB/LWAL+CDN/H:1/IND	\$55.7M	786	1.13%	0.34%
ADO/E	EWV/LN+CDN/H:1/RES	\$53.4M	8,639	1.09%	3.76%
MUR	MUR+STDRE/LWAL+CDN/H:1/RES	\$52.0M	3,156	1.06%	1.37%
W	W/LWAL+CDL/H:2/RES	\$47.8M	1,435	0.97%	0.62%
MUR	MUR+CB/LWAL+CDN/H:2/IND	\$40.5M	260	0.82%	0.11%

\$38.2M

\$37.0M

\$35.9M

6,180

1,495

308