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 (3.10.0-CAPI-1.16.0). Conversions between both will be slow. warnings.warn(

country = "Cape_Verde"

Exposure files: Exposure_Com_Cape_Verde.csv

Parameters

Exposure_Ind_Cape_Verde.csv Exposure_Res_Cape_Verde.csv

Sanity checks and formats

Cape_Verde ../Exposure/Africa/Exposure_Com_Cape_Verde.csv

../Exposure/Africa/Exposure_Ind_Cape_Verde.csv

- ../Exposure/Africa/Exposure_Res_Cape_Verde.csv Occupants / Dwellings = 4.1
- Reference avg household size (2019) = 4.2Population (exposure / UN 2021) = 0.98
- Exposure models OK **Exposure at National level**

OCCUPANTS BUILDINGS OCCUPANCY

552.6K

Ind 0.0K Com 0.0K

Other metrics to consider

COST_USD

NAME_1

S∳o

Res

Summary by occupancy type

	AREA_SQM	COST_BUILDING_USD	COST_PER_CAPITA	${\bf AVG_BUILDING_AREA_SQM}$	AVG_COST_PE
OCCUPANCY					
Total	14,477.0K	\$2,592.1M	\$5,945	107	
Res	10,225.2K	\$1,863.8M	\$4,180	80	
Ind	1,685.7K	\$236.1M	\$604	954	
Com	2 566 1K	\$492.2M	\$1 161	446	

OCCUPANTS

127,168

1,767

5,753

COST_USD

\$2.309.5M

\$333.9M

\$641.7M

COST_USD_%

25.33%

BUILDINGS_%

94.42%

1.31%

4.27%

BUILDINGS_%

24.54%

COST_USD_%

OCCUPANTS_%

32.60%

33.10%

<mark>24.</mark>03%

2.88%

2.87%

0.00%

4.52%

BUILDINGS_%

14.83%

9.86% 15.21%

33.72%

32.90%

23.32%

2.37%

2.86%

0.32%

4.52%

COST_USD_%

13.89%

10.51%

8.43%

24.56%

70.30%

10.16%

19.53%

Louren�o \$832.2M 33.046 135.7K dos

Exposure summary at Admin level 1

BUILDINGS

∲ rg ∲ os						
S�o Vicente	\$535.0M	2 1,287	87.4K	16.28%	15.80%	<mark>1</mark> 5.82%
Tarrafal	\$285.9M	11,448	47.0K	8.70%	8.50%	8.51%
Santa Catarina	\$263.1M	10,564	43.4K	8.01%	7.84%	7.85%
S�o Salvador do Mundo	\$164.1M	6,730	27.6K	4.99%	5.00%	4.99%
Ribeira Grande	\$145.7M	5,994	24.6K	4.44%	4.45%	4.46%
Sal	\$138.1M	5,694	23.4K	4.21%	4.23%	4.24%
Santa Catarina do Fogo	\$135.7M	5,602	23.0K	4.13%	4.16%	4.16%
Boa Vista	\$117.8M	4,907	20.1K	3.59%	3.64%	3.64%
Paul	\$110.4M	4,620	18.9K	3.36%	3.43%	3.43%
Praia	\$94.0M	3,976	16.3K	2.86%	2.95%	2.94%
S � o Domingos	\$79.8M	3,410	13.9K	2.43%	2.53%	2.52%
Ribeira Grande de Santiago	\$51.2M	2,274	9.3K	1.56%	1.69%	1.68%
Santa Cruz	\$50.0M	2,219	9.1K	1.52%	1.65%	1.65%
S � o Filipe	\$42.6M	1,929	7.9K	1.30%	1.43%	1.43%
Ribeira Brava	\$41.7M	1,893	7.7K	1.27%	1.41%	1.40%
Mosteiros	\$41.0M	1,864	7.6K	1.25%	1.38%	1.38%
S�o Miguel	\$36.8M	1,683	6.9K	1.12%	1.25%	1.25%
Maio	\$35.8M	1,631	6.7K	1.09%	1.21%	1.21%
Porto Novo	\$30.3M	1,389	5.7K	0.92%	1.03%	1.03%
Brava	\$27.7M	1,290	5.2K	0.84%	0.96%	0.95%
Tarrafal de S�o Nicolau	\$26.3M	1,238	5.0K	0.80%	0.92%	0.91%
Exposure by simplified taxonomy						
Adding	`MACRO_TAXO` (OCCUPANTO	COST USD 0/	DIM DINCE 0/	OCCUPANTS 0/
	COST_US	D BUILDINGS	OCCUPANTS	COST_USD_%	BUILDINGS_%	OCCUPANTS_%

OT \$28.5M 6,090 25.0K

\$1,362.6M

\$969.4M

\$397.5M

\$258.5M

\$163.2M

\$105.3M

Exposure by taxonomy

MACRO_TAXO

MACRO_TAXO

ADO/E

ADO/E

MUR

S

RC

MUR

MCF

OT

MUR

RC

MUR

W **RC**

MCF

S

ADO/E

45,415

44,306

<mark>31,</mark>405

3,187

3,849

436

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

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

MUR+ADO/LWAL+CDN/H:1/RES

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

S+SL/LFM+CDL/H:1/IND

CR/LFINF+CDL/HBET:4-7/RES

MUR+CB/LWAL+CDN/H:1/COM

MCF+CB/LWAL+CDL/H:1/RES

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

CR/LFINF+CDL/HBET:4-7/COM

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

TAXONOMY

180.2K

182.9K

132.8K

15.9K

15.8K

0.0K

COST_USD

\$408.9M

\$309.5M

\$248.3M

41.48%

29.51%

12.10%

7.87%

4.97%

3.21%

0.87%

BUILDINGS

18,478

12,285

18,947

VV	WTWWD/LWALTCDN/H.1/RES	\$200.1M	20,923	7.07/0	
MUR	MUR+CB/LWAL+CDN/H:1/RES	\$187.9M	12,599	6.38%	1

	- , , , -		- / -		
W	W+WWD/LWAL+CDN/H:1/RES	\$208.1M	20,923	7.07%	16.80%
MUR	MUR+CB/LWAL+CDN/H:1/RES	\$187.9M	12,599	6.38%	10.11%
ADO/E	MUR+ADO/LWAL+CDN/H:2/COM	\$157.9M	1,272	5.36%	1.02%
W	W+WWD/LWAL+CDN/H:2/RES	\$146.9M	8,744	4.99%	7.02%
	MUR+CL/LWAL+CDN/H:2/RES	\$138.7M	5,506	4.71%	4.42%
	MUR+CB/LWAL+CDN/H:2/COM	\$115.6M	770	3.92%	0.62%
MUR	MUR+CB/LWAL+CDN/H:1/IND	\$90.9M	596	3.09%	0.48%
	MUR+CL/LWAL+CDN/H:1/RES	\$84.3M	5,648	2.86%	4.53%
	MUR+STDRE/LWAL+CDN/H:2/RES	\$63.6M	2,528	2.16%	2.03%
RC	CR/LFINF+CDL/H:3/RES	\$63.5M	1,090	2.16%	0.87%
ADO/E	MUR+ADO/LWAL+CDN/HBET:3- 6/RES	\$53.6M	252	1.82%	0.20%
RC	CR/LFINF+CDL/H:2/RES	\$52.2M	1,363	1.77%	1.09%
MUR	MUR+CL/LWAL+CDN/H:2/COM	\$49.6M	336	1.68%	0.27%
S	S/LFM+CDL/H:1/IND	\$47.9M	212	1.63%	0.17%
ADO/E	MUR+ADO/LWAL+CDN/HBET:3- 6/COM	\$43.8M	132	1.49%	0.11%
MCF	MCF+CB/LWAL+CDL/H:2/RES	\$42.7M	1,192	1.45%	0.96%
	MUR+CB/LWAL+CDN/H:2/IND	\$40.0M	185	1.36%	0.15%
MUR	MUR+CB/LWAL+CDN/HBET:3- 6/RES	\$39.6M	166	1.34%	0.13%
	MUR+STDRE/LWAL+CDN/H:1/RES	\$38.6M	2,591	1.31%	2.08%
ADO/E	MUR+ADO/LWAL+CDN/H:1/COM	\$38.3M	1,268	1.30%	1.02%
MUR	MUR+CL/LWAL+CDN/H:1/IND	\$36.9M	250	1.25%	0.20%
RC	CR/LFINF+CDL/H:3/COM	\$32.5M	75	1.10%	0.06%
MUR	MUR+CB/LWAL+CDN/HBET:3- 6/COM	\$29.7M	74	1.01%	0.06%

\$29.3M

\$28.2M

\$27.9M

\$26.0M

\$22.3M

\$21.4M

\$20.1M

131

50

755

1,226

4,758

144

26

0.99%

0.96%

0.95%

0.88%

0.76%

0.73%

0.68%

0.11%

0.04%

0.61%

0.98%

3.82%

0.12%

0.02%