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 Sh apely GEOS version (3.9.1-CAPI-1.14.2) is incompatible with the GEOS version PyGEOS was compiled with (3.10.1-CAPI-1.16.0). Conversions between both will be slow.

warnings.warn(

Parameters country = "Kuwait"

Exposure files:

Exposure_Com_Kuwait.csv Exposure_Ind_Kuwait.csv Exposure_Res_Kuwait.csv

Sanity checks and formats

Exposure at National level

Summary by occupancy type

	OCCUPANTS	BUILDINGS	COST_USD	BUILDINGS_%	COST_USD_%
OCCUPANCY					
Res	4,322.3K	569.1K	\$142.1B	90.05%	75.77%
Ind	0.0K	6.7K	\$5.3B	1.07%	2.81%
Com	0.0K	56.1K	\$40.2B	8.88%	21.43%

Other metrics to consider

AREA_SQM COST_BUILDING_USD AVG_BUILDING_AREA_SQM AVG_COST_PER_AREA_USD

COST LISD %

BUILDINGS

BIIII DINGS %

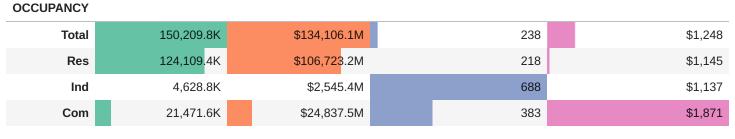
COST_USD_%

OCCUPANTS %

BUILDINGS_%

0.18%

1.63%



Exposure summary at Admin level 1 COST USD **BUILDINGS** OCCUPANTS

	COST_USD	BUILDINGS	OCCUPANTS	COST_USD_%	BUILDINGS_%	OCCUPANTS_%
NAME_1						
Hawalli	\$48.5B	136.5K	948.4K	25.88%	21.59%	21. 94%
Farwaniya	\$40.1B	127.3K	1,154.0K	21.40%	20.14%	26.70%
Ahmadi	\$33.9B	11 8.3K	829.2K	18.06%	18 <mark>.72%</mark>	19.18%
Al Asimah	\$23.1B	83.6K	460.6K	12.34%	13.23%	10.66%
Mubarak Al-Kabeer	\$21.7B	76.4K	364.9K	11.58%	12.10%	8.44%
Jahra	\$20.2B	89.9K	565.1K	10.75%	14.22%	13.07%

Adding `MACRO_TAXO` column COST LISD

BLIII DINGS

Exposure by simplified taxonomy

	CO31_03D	BUILDINGS	OCCUPANTS	CO31_03D_%	BUILDINGS_%	OCCUPANTS_%		
MACRO_TAXO								
RC	\$132,932.3M	413,102	3,111.0K	70.89%	65.37%	71.98%		
MCF	\$23,005.9M	87,800	631.0K	12.27%	13.89%	14.60%		
MUR	\$18,896.5M	94,185	481.6K	10.08%	14.90%	11.14%		
MR	\$7,480.0M	17,585	0.0K	3.99%	2.78%	0.00%		
S	\$4,570.4M	3,987	0.0K	2.44%	0.63%	0.00%		
ОТ	\$643.0M	15,333	98.6K	0.34%	2.43%	2.28%		
Exposure by taxonomy								

OCCLIDANTS

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

MCF

MR

MCF/LWAL+CDL/HBET:3-6/COM

MR+CB/LWAL+CDL/H:1/COM

MACRO_TAXO **TAXONOMY**

COST_USD

-					
	CR/LFINF+CDL/HBET:4-7/RES	\$36,323.6M	155,174	21.66%	27.44%
RC	CR/LFINF+CDL/HBET:8-/RES	\$18,440.4M	77,469	11.00%	13.70%
	CR/LFINF+CDL/H:3/RES	\$18,022.5M	77,802	10.75%	13.76%
RC	CR/LFINF+CDL/H:1/RES	\$8,941.6M	39,379	5.33%	6.96%
	CR/LFINF+CDL/H:2/RES	\$8,941.6M	39,022	5.33%	6.90%
	CR/LDUAL+CDL/HBET:4-7/RES	\$8,149.3M	1,683	4.86%	0.30%
MCF	MCF/LWAL+CDL/HBET:3-6/RES	\$7,901.0M	31,941	4.71%	5.65%
WICF	MCF/LWAL+CDL/H:2/RES	\$7,677.1M	32,477	4.58%	5.74%
MUR	MUR+STDRE/LWAL+CDN/H:1/RES	\$5,359.6M	30,633	3.20%	5.42%
MOR	MUR+STDRE/LWAL+CDN/H:2/RES	\$5,359.6M	30,633	3.20%	5.42%
RC	CR/LDUAL+CDL/HBET:8-/RES	\$4,980.1M	464	2.97%	0.08%
MCF	MCF/LWAL+CDL/H:1/RES	\$3,838.6M	16,774	2.29%	2.97%
RC	CR/LFINF+CDL/HBET:4-7/COM	\$3,773.2M	1,494	2.25%	0.26%
KC.	CR/LDUAL+CDL/H:3/RES	\$3,621.9M	1,544	2.16%	0.27%
MR	MR+CB/LWAL+CDL/HBET:3- 6/COM	\$3,229.6M	1,848	1.93%	0.33%
MUR	MUR+CB/LWAL+CDN/HBET:3- 6/COM	\$3,229.6M	1,848	1.93%	0.33%
	CR/LFINF+CDL/HBET:8-/COM	\$2,915.1M	372	1.74%	0.07%
RC	CR/LDUAL+CDL/HBET:4-7/COM	\$2,495.8M	990	1.49%	0.18%
	CR/LWAL+CDL/HBET:4-7/COM	\$2,495.8M	990	1.49%	0.18%
MR	MR+CB/LWAL+CDL/H:2/COM	\$2,420.9M	6,160	1.44%	1.09%
MUR	MUR+CB/LWAL+CDN/H:2/COM	\$2,420.9M	6,160	1.44%	1.09%
RC	CR/LDUAL+CDL/HBET:8-/COM	\$1,916.7M	245	1.14%	0.04%
RC	CR/LWAL+CDL/HBET:8-/COM	\$1,916.7M	245	1.14%	0.04%

\$1,727.9M

\$1,598.1M

990

9,237

1.03%

0.95%