#### **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 = "Myanmar"

Exposure files:

Exposure\_Com\_Myanmar.csv Exposure\_Ind\_Myanmar.csv

Exposure\_Res\_Myanmar.csv Sanity checks and formats

#### Myanmar

Exposure/Exposure\_Com\_Myanmar.csv Exposure/Exposure/Exposure\_Ind\_Myanmar.csv Exposure/Exposure/Exposure\_Res\_Myanmar.csv Occupants / Dwellings = 4.6 Reference avg household size (2019) = 4.2Population (exposure / UN 2021) = 0.92Exposure models OK

# **Exposure at National level**

**OCCUPANTS** 

## Summary by occupancy type

OCCUPANCY							
Res	50.2M	10,637.3K	\$100,679.7M	98.98%	87.90%		
Ind	0.0M	51.0K	\$3,912.0M	0.47%	3.42%		
Com	0.0M	58.5K	\$9,950.9M	0.54%	8.69%		
Other metrics to consider							

**BUILDINGS** 

## AREA\_SQM COST\_BUILDING\_USD AVG\_BUILDING\_AREA\_SQM AVG\_COST\_PER\_AREA\_USD

**OCCUPANCY** 

COST\_USD

**BUILDINGS\_%** 

COST\_USD\_%

Res	580.0M	:

Total	602.8M	\$84,663.9M	56	\$190
Res	580.0M	\$76,121.6M	55	\$174
Ind	13.2M	\$2,084.9M	260	\$295
Com	9.6M	\$6,457.5M	164	\$1,034

Exposure summary at Admin level 1

	COST_USD	BUILDINGS	OCCUPANTS	COST_USD_%	BUILDINGS_%	OCCUPANTS_%
NAME_1						
Yangon	\$29,746.6M	1,425.7K	7,334.7K	25.97%	13.27%	14.62%
Mandalay	\$13,496.6M	1,323.5K	6,152.7K	11.78%	12.32%	12.27%
Shan	<b>\$12</b> ,229.4M	1,177.8K	5,863.4K	10.68%	10.96%	11.6 <mark>9</mark> %
Ayeyarwady	\$11,528.1M	1,493.3K	6,184.8K	10.06%	13.90%	12.3 <mark>3</mark> %
Bago	\$9,521.3M	1,158.8K	4,916.0K	8.31%	10.7 <mark>8%</mark>	<mark>9</mark> .80%
Sagaing	\$9,130.9M	1,101.8K	5,308.5K	7.97%	10.25%	10.58%
Magway	\$7,685.5M	<mark>9</mark> 31.1K	<b>3</b> ,933.9K	6.71%	8.66%	7.84%
Rakhine	\$4,165.3M	464.5K	2,098.8K	3.64%	4.32%	4.18%
Mon	\$4,160.9M	432.5K	2,063.6K	3.63%	4.02%	4.11%
Tanintharyi	\$3,211.5M	291.2K	1,408.4K	2.80%	2.71%	2.81%
Nay Pyi Taw	\$3,145.4M	235.4K	1,074.1K	2.75%	2.19%	2.14%
Kayin	\$2,614.6M	288.5K	1,393.3K	2.28%	2.68%	2.78%
Kachin	\$2,520.3M	270.1K	1,642.8K	2.20%	2.51%	3.28%
Chin	\$780.9M	92.2K	478.8K	0.68%	0.86%	0.95%
Kayah	\$605.5M	60.4K	300.8K	0.53%	0.56%	0.60%

#### Adding `MACRO\_TAXO` column BUILDINGS OCCUPANTS COST\_USD\_% BUILDINGS\_% OCCUPANTS\_% COST\_USD

**Exposure by simplified taxonomy** 

**MACRO TAXO** 

MACKO_IAKO						
w	\$62,928.9M	8,838.8K	40,378.8K	54.94%	82.25%	80.51%
RC	\$37,763.6M	257.5K	1,999.6K	32.97%	2.40%	3.99%
MUR	\$7,340.9M	955.0K	4,549.3K	6.41%	8.89%	9.07%
MIX	\$4,785.5M	611.1K	2,869.8K	4.18%	5.69%	5.72%
S	\$1,293.8M	10.6K	0.0K	1.13%	0.10%	0.00%
ОТ	\$309.3M	55.7K	260.9K	0.27%	0.52%	0.52%
ADO/E	\$120.6M	18.1K	96.3K	0.11%	0.17%	0.19%
Exposure by taxonomy						

### Showing only taxonomies that represent 90% of the total `COST\_USD`

MACRO\_TAXO **TAXONOMY** 

COST\_USD BUILDINGS COST\_USD\_% BUILDINGS\_%

W	W+WBB/LPB+DNO/H:1/RES	\$35,063.0M	5,259,449	34.14%	50.56%
**	W/H:1/RES	\$15,629.1M	<mark>2,</mark> 031,788	15.22%	19.53%
RC	CR/LFINF+DUL/H:2/RES	\$9,240.1M	154,002	9.00%	1.48%
w	W+WO/LN/H:1/RES	\$9,084.0M	1,362,606	8.85%	13.10%
	CR/LFINF+DUL/H:5/RES	\$5,264.4M	4,011	5.13%	0.04%
RC	CR/LDUAL+DUL/HBET:6-12/RES	\$4,914.0M	1,300	4.79%	0.01%
	CR/LFINF+DUL/H:4/RES	\$4,095.8M	4,876	3.99%	0.05%
MUR	MUR/LWAL+DNO/H:1/RES	\$3,518.7M	633,373	3.43%	6.09%
RC	CR/LDUAL+DUM/HBET:13-/COM12	\$3,367.4M	456	3.28%	0.00%
MIX	MIX(M-W)/H:1/RES	\$3,244.3M	486,646	3.16%	4.68%
RC	CR/LFINF+DUL/H:3/RES	\$3,229.8M	26,915	3.15%	0.26%
MUR	MUR/LWAL+DNO/H:2/RES	\$2,231.4M	267,769	2.17%	2.57%
RC	CR/LFM+DUL/HBET:1-2/IND1	\$1,966.3M	8,778	1.91%	0.08%
W	W/H:2/RES	\$1,844.5M	159,855	1.80%	1.54%