# 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 = "Fiji"

Exposure files:

Exposure\_Com\_Fiji.csv Exposure\_Ind\_Fiji.csv Exposure\_Res\_Fiji.csv

## Sanity checks and formats

# **Exposure at National level**

#### Summary by occupancy type

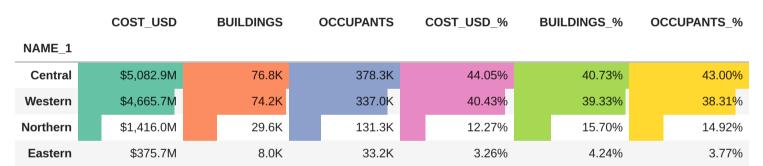
	OCCUPANTS	BUILDINGS	COST_USD	BUILDINGS_%	COST_USD_%
OCCUPANCY					
Res	879.8K	178,097	\$10,145.3M	94.45%	87.91%
Ind	0.0K	1,740	\$330.9M	0.92%	2.87%
Com	0.0K	8,718	\$1,064.1M	4.62%	9.22%

#### Other metrics to consider

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

OCCUPANCY				
Total	14,474.5K	\$8,140.0M	77	\$797
Res	13,224.1K	\$7,298.2M	74	\$767
Ind	295.8K	\$177.1M	170	\$1,118
Com	954.6K	\$664.7M	110	\$1,115

## Exposure summary at Admin level 1



### **Exposure by simplified taxonomy**

Adding `MACRO\_TAXO` column **BUILDINGS** COST\_USD **OCCUPANTS** % **OCCUPANTS** COST\_USD\_% **BUILDINGS\_%** MACRO\_TAXO RC \$5,917.6M 41.5K 238.0K 51.28% 21.99% **27**.05% ОТ \$2,365.9M 67.1K 286.0K 20.50% 35.60% 32.51% 225.1K 20.22% **2**5.59% W \$2,333.2M 50.3K 26.65% MUR 29.7K 130.7K 15.76% \$923.7M 8.00% 14.85%

# **Exposure by taxonomy**

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

		COST_USD	BUILDINGS	COST_USD_%	BUILDINGS_%
MACRO_TAXO	TAXONOMY				
RC	CR+CIP/LFM+DUL/H:1/RES	\$2,897.0M	32,374	28.65%	18.57%
	CR+CIP/LFM+DUL/HBET:2-4/RES	\$2,358.5M	5,896	23.32%	3.38%
W	W+WLI/LPB+DUL/HBET:1-2/RES	\$2,074.2M	44,389	20.51%	25.46%
ОТ	ME+MEIR/LN+DNO/RMT6/H:1/RES	<b>\$</b> 1,131.9M	42,570	11.19%	24.42%
MUR	MUR+CB/LWAL+DNO/RMT6+RWO1/H:1/RES	\$872.1M	<b>28</b> ,674	8.62%	16.45%
ОТ	ME+MEIR/LPB+DUL/RMT8/H:1/RES	\$485.1M	18,244	4.80%	10.47%
	ME+MEIR/LPB+DUL/RMT8/H:1/COM	\$293.4M	2,179	2.90%	1.25%