## 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 = "Israel"

Exposure files:

Exposure\_Com\_Israel.csv Exposure\_Ind\_Israel.csv Exposure\_Res\_Israel.csv

# Sanity checks and formats

## **Exposure at National level** Summary by occupancy type

# **OCCUPANTS**

OCCUPANCY										
Res	7.9M	694.4K	\$459.8B	77.21%	69.95%					
Ind	0.0M	63.5K	\$45.6B	7.06%	6.94%					
Com	0.0M	141.5K	\$152.0B	15.73%	23.12%					
Other metrics to consider										

COST\_USD

COST\_USD\_%

COST\_USD\_%

94.66%

1.95%

**BUILDINGS\_%** 

**BUILDINGS\_%** 

**BUILDINGS\_%** 

86.24%

2.12%

COST\_USD\_%

\$1.805

OCCUPANTS\_%

OCCUPANTS\_%

96.19%

0.00%

**BUILDINGS** 

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

**OCCUPANCY** 

364.2M **Total** \$458.7B 405 265.0M \$345.9B 382 \$1,735 Res 415 26.4M \$21.4B \$1,730 Ind Com 72.9M \$91.4B 515 \$2,085 Exposure summary at Admin level 1

**OCCUPANTS** 

## NAME 1

**BUILDINGS** 

**BUILDINGS** 

19.1K

COST\_USD

Center District	\$167.7B	199.9K	2,002.5K	25.51%	22.23%	25.50%			
Tel Aviv District	\$132.4B	129.2K	1,383.0K	20.14%	14.36%	17.61%			
North District	\$97.4B	212.4K	1,249.0K	14.81%	23.61%	15.91%			
South District	\$95.9B	<b>1</b> 62.2K	1,197.3K	14.59%	18.03%	15.25%			
Haifa District	\$83.9B	112.0K	916.4K	12.77%	12.45%	11.67%			
Jerusalem District	\$80.1B	83.8K	1,104.4K	12.18%	9.32%	14.06%			
Exposure by simplified taxonomy									

### RC \$622.3B 775.7K

\$12.8B

COST\_USD

Adding `MACRO\_TAXO` column

**MACRO TAXO** 

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**MUR** 246.1K \$12.2B 74.9K 1.86% 8.33% 3.13% \$10.1B 29.8K 53.0K MR 1.53% 3.31% 0.68% **Exposure by taxonomy** Showing only taxonomies that represent 90% of the total `COST\_USD` COST\_USD **BUILDINGS** COST\_USD\_% **BUILDINGS\_%** 

7,553.5K

0.0K

**OCCUPANTS** 

**MACRO TAXO TAXONOMY** CR/LFINF+CDL/HBET:8-/RES \$46,366.4M 18,887 7.85% 2.51% \$40,438.9M CR/LFINF+CDL/HBET:5-7/RES 25,183 6.85% 3.35% CR/LWAL+CDM/HBET:8-/RES \$39,626.8M 13,229 1.76% 6.71% CR/LWAL+CDM/HBET:5-7/RES \$35,236.6M 17,642 5.97% 2.34% CR/LFINF+CDL/HBET:3-4/RES \$32,948.6M 45,329 5.58% 6.02% CR/LWAL+CDM/HBET:3-4/RES \$29,394.1M 31,751 4.98% 4.22% CR/LFINF+CDM/HBET:8-/RES \$25,217.1M 8,419 4.27% 1.12% CR/LFINF+CDM/HBET:5-7/RES \$22,423.3M 11,226 3.80% 1.49% CR+CIP/LWAL+CDM/HBET:1-\$21,042.1M 125,252 3.56% 16.64% 2/RES CR/LFINF+CDL/HBET:4-7/COM \$19,279.6M 3.26% 1.17% 8,818 CR/LFINF+CDM/HBET:3-4/RES \$18,705.4M 20,206 3.17% 2.68% CR/LFINF+CDM/HBET:4-7/COM \$15.774.2M 7,211 2.67% 0.96% CR/LWAL+CDL/HBET:8-/RES \$15,673.9M 5,937 2.65% 0.79% CR/LWAL+CDL/HBET:5-7/RES 7,916 2.33% 1.05% \$13,774.0M CR/LWAL+CDL/HBET:4-7/COM \$11,567.8M 5,292 1.96% 0.70% CR/LWAL+CDL/HBET:3-4/RES \$11,327.9M 14,249 1.92% 1.89% CR+CIP/LFINF+CDL/HBET:1-\$10,868.6M 64,694 1.84% 8.59% 2/RES RC CR/LFINF+CDL/HBET:1-2/RES \$10,154.0M 25,183 1.72% 3.35% CR/LFINF+CDL/HBET:8-/COM \$9,809.3M 1,368 0.18% 1.66% CR+CIP/LFINF+CDM/HBET:1-\$9,509.9M 56,607 1.61% 7.52% 2/RES CR/LWAL+CDM/HBET:4-7/COM \$9,464.5M 4,328 1.60% 0.57% CR/LWAL+CDM/HBET:1-2/RES 2.34% \$9,058.6M 17,642 1.53% CR/LFINF+CDM/HBET:8-/COM \$8,025.8M 1,114 1.36% 0.15% CR/LFINF+CDL/H:3/COM \$7,400.7M 8,997 1.25% 1.20% CR/LDUAL+CDM/HBET:8-/RES \$7,204.9M 2,405 1.22% 0.32% CR/LDUAL+CDM/HBET:5-7/RES \$6,406.6M 1.08% 3,208 0.43% CR/LFINF+CDM/H:3/COM 0.98% \$6,055.1M 7,360 1.03% CR/LWAL+CDL/HBET:8-/COM \$5,885.6M 820 1.00% 0.11% CR/LDUAL+CDL/HBET:4-7/COM \$5,783.9M 2,643 0.98% 0.35% CR/LFINF+CDM/HBET:1-2/RES 0.98% 1.49% \$5,764.5M 11,226 CR+CIP/LWAL+CDL/HBET:1-\$5.434.3M 32,347 0.92% 4.30% 2/RES CR/LDUAL+CDM/HBET:3-4/RES 5,772 \$5,344.4M 0.90% 0.77% CR/LFINF+CDL/H:1/IND \$5,093.2M 7,860 0.86% 1.04% CR/LWAL+CDM/HBET:8-/COM 0.82% \$4,815.5M 672 0.09% CR/LDUAL+CDM/HBET:4-7/COM \$4,732.3M 2,167 0.80% 0.29% S S/LFM+CDL/H:1/IND \$4,583.9M 7,860 0.78% 1.04%

\$4,440.4M CR/LWAL+CDL/H:3/COM 0.75% 0.72% 5,399 RC CR/LFINF+CDM/H:1/IND \$4,167.2M 6,430 0.71% 0.85% **MUR** MUR/LWAL+CDN/H:3/RES \$4,045.6M 0.68% 2.99% 22,475 RC CR+PC/LWAL+CDL/HBET:8-/RES \$3,885.2M 1,619 0.66% 0.22% S S/LFM+CDM/H:1/IND 0.85% \$3,750.5M 6,430 0.63% CR/LFINF+CDL/H:2/COM \$3,676.0M 8,013 0.62% 1.06% RC CR/LWAL+CDM/H:3/COM 0.62% 0.59% \$3,633.1M 4,420 **MUR** MUR/LWAL+CDN/H:2/RES \$3,569.7M 22,475 0.60% 2.99% CR/LWAL+CDL/HBET:1-2/RES \$3,491.0M 7,916 0.59% 1.05% CR+PC/LWAL+CDL/H:1/IND \$3,395.5M 5,239 0.57% 0.70% RC CR+PC/LWAL+CDL/HBET:5-0.29% \$3,380.2M 2,158 0.57% 7/RES MUR/LWAL+CDN/H:1/RES **MUR** \$3,093.7M 2.99% 22,475 0.52% CR/LFINF+CDM/H:2/COM \$3,007.6M 6,556 0.51% 0.87% RC CR/LDUAL+CDL/HBET:8-/COM 0.50% \$2,942.8M 411 0.05%