

REGIONAL EXPOSURE SUMMARIES

Review main statistic of regional exposure models and create summaries across countries.

```
# Parameters
region = "Southeast_Asia"
```

- 1 - Brunei
- 2 - Cambodia
- 3 - Indonesia
- 4 - Laos
- 5 - Malaysia
- 6 - Myanmar
- 7 - Philippines
- 8 - Singapore
- 9 - Thailand
- 10 - Timor_Leste
- 11 - Vietnam

```
Index(['COUNTRY', 'ID_1', 'NAME_1', 'TAXONOMY', 'OCCUPANCY', 'DWELLINGS',
      'BUILDINGS', 'OCCUPANTS', 'COST_USD', 'COST_STRUCTURAL_USD',
      'COST_NONSTRUCTURAL_USD', 'COST_CONTENTS_USD', 'COST_PER_AREA_USD'],
      dtype='object')
```

Exposure at National level by occupancy

BUILDINGS								
	Com	Ind	Res		Com_%		Ind_%	Res_%
COUNTRY								
Brunei	2,412	1,397	59.1K		3.84%		2.22%	93.94%
Cambodia	58,209	6,499	3,136.8K		1.82%		0.20%	97.98%
Indonesia	4,502,052	832,743	40,297.2K		9.87%		1.82%	88.31%
Laos	89,001	25,257	1,148.6K		7.05%		2.00%	90.95%
Malaysia	519,942	90,685	5,971.7K		7.90%		1.38%	90.72%
Myanmar	58,517	50,991	10,637.3K		0.54%		0.47%	98.98%
Philippines	510,200	119,337	22,515.3K		2.20%		0.52%	97.28%
Singapore	7,901	9,231	93.2K		7.16%		8.36%	84.48%
Thailand	1,196,999	456,759	16,697.0K		6.52%		2.49%	90.99%
Timor_Leste	13,286	4,123	196.9K		6.20%		1.92%	91.88%
Vietnam	1,078,526	74,784	19,635.5K		5.19%		0.36%	94.45%

COST_USD								
	Com	Ind	Res		Com_%		Ind_%	Res_%
COUNTRY								
Brunei	677.1M	170.8M	6.1B		9.68%		2.44%	87.88%
Cambodia	3,509.6M	1,234.5M	55.2B		5.86%		2.06%	92.08%
Indonesia	337,204.9M	131,408.6M	1,837.4B		14.62%		5.70%	79.68%
Laos	1,300.9M	995.5M	17.3B		6.65%		5.09%	88.26%
Malaysia	69,280.7M	27,097.2M	545.7B		10.79%		4.22%	84.99%
Myanmar	9,950.9M	3,912.0M	100.7B		8.69%		3.42%	87.90%
Philippines	23,104.1M	7,421.5M	265.8B		7.80%		2.50%	89.70%
Singapore	188,816.7M	147,894.3M	948.7B		14.69%		11.51%	73.81%
Thailand	143,467.7M	116,728.3M	1,062.2B		10.85%		8.83%	80.32%
Timor_Leste	752.0M	311.0M	5.6B		11.29%		4.67%	84.04%
Vietnam	44,780.4M	5,828.0M	312.0B		12.35%		1.61%	86.04%

Other metrics to consider

AVG_BUILDING_AREA_SQM				AVG_COST_PER_AREA_USD			
COUNTRY	OCCUPANCY						
Brunei	Com		271			\$624	
	Ind		145			\$405	
	Res		110			\$732	
Cambodia	Com		124			\$317	
	Ind		259			\$392	
	Res		77			\$174	
Indonesia	Com		104			\$477	
	Ind		184			\$469	
	Res		113			\$312	
Laos	Com		60			\$158	
	Ind		135			\$157	
	Res		71			\$168	
Malaysia	Com		130			\$622	
	Ind		343			\$415	
	Res		127			\$547	
Myanmar	Com		164			\$671	
	Ind		260			\$157	
	Res		55			\$131	
Philippines	Com		76			\$405	
	Ind		91			\$406	
	Res		50			\$179	
Singapore	Com		8,393			\$1,898	
	Ind		6,233			\$1,285	
	Res		3,976			\$2,047	
Thailand	Com		132			\$551	
	Ind		246			\$492	
	Res		98			\$482	
Timor_Leste	Com		209			\$179	
	Ind		205			\$193	
	Res		96			\$242	
Vietnam	Com		123			\$223	
	Ind		126			\$370	
	Res		80			\$167	

National exposure by simplified taxonomy

Adding `MACRO_TAXO` column

BUILDINGS									
	ADO/E_%	MCF_%	MIX_%	MR_%	MUR_%	OT_%	RC_%	S_%	W_%
COUNTRY									
Brunei	0.00%	0.00%	18.42%	0.00%	48.61%	0.37%	23.02%	0.38%	9.20%
Cambodia	0.06%	0.00%	0.00%	0.00%	15.36%	13.07%	4.02%	0.05%	67.43%
Indonesia	0.00%	39.37%	0.00%	0.00%	23.46%	0.00%	10.77%	0.45%	25.95%
Laos	0.36%	0.00%	0.00%	0.00%	35.38%	0.48%	6.70%	0.41%	56.67%
Malaysia	0.00%	0.00%	10.81%	0.00%	29.58%	5.01%	40.89%	0.32%	13.39%
Myanmar	0.17%	0.00%	5.69%	0.00%	8.89%	0.52%	2.40%	0.10%	82.25%
Philippines	0.00%	9.90%	15.26%	31.38%	5.37%	1.99%	2.87%	0.00%	33.24%
Singapore	0.00%	0.00%	0.00%	0.00%	0.00%	74.89%	22.48%	2.63%	0.00%
Thailand	0.00%	0.00%	25.20%	0.00%	21.72%	0.69%	25.14%	0.61%	26.64%
Timor_Leste	1.21%	0.00%	0.00%	0.00%	34.17%	5.56%	4.87%	0.36%	53.83%
Vietnam	2.23%	1.28%	9.87%	0.00%	63.54%	2.61%	8.61%	0.17%	11.68%

COST_USD									
	ADO/E_%	MCF_%	MIX_%	MR_%	MUR_%	OT_%	RC_%	S_%	W_%
COUNTRY									
Brunei	0.00%	0.00%	10.90%	0.00%	28.69%	0.18%	53.52%	0.78%	5.94%
Cambodia	0.04%	0.00%	0.00%	0.00%	11.56%	11.14%	27.15%	0.67%	49.44%
Indonesia	0.00%	40.72%	0.00%	0.00%	9.04%	0.00%	38.28%	1.75%	10.21%
Laos	0.28%	0.00%	0.00%	0.00%	28.41%	0.31%	22.42%	2.49%	46.09%
Malaysia	0.00%	0.00%	4.97%	0.00%	12.15%	1.59%	74.23%	1.30%	5.76%
Myanmar	0.11%	0.00%	4.18%	0.00%	6.41%	0.27%	32.97%	1.13%	54.94%
Philippines	0.00%	13.06%	11.06%	39.28%	4.27%	1.38%	7.53%	0.05%	23.37%
Singapore	0.00%	0.00%	0.00%	0.00%	0.00%	14.80%	83.77%	1.43%	0.00%
Thailand	0.00%	0.00%	13.76%	0.00%	12.67%	0.37%	55.08%	2.83%	15.28%
Timor_Leste	0.26%	0.00%	0.00%	0.00%	37.53%	1.72%	28.77%	0.88%	30.84%
Vietnam	1.61%	1.63%	7.86%	0.00%	46.71%	2.82%	30.26%	0.53%	8.58%

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