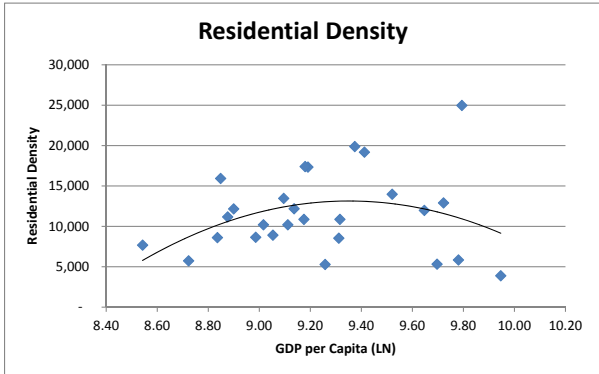


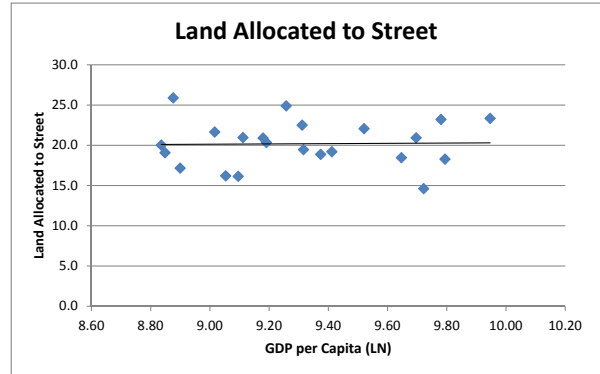
CITY PROSPERITY INDEX
CORRELATIONS SPATIAL VARIABLES AND GDP

CITY PRODUCT (LN) AND URBAN FORM

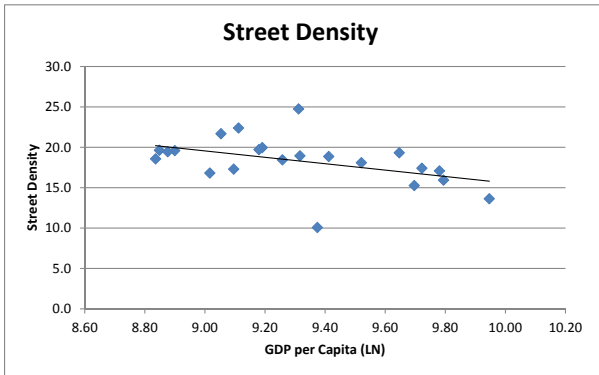
| | <i>GDP per Capita</i> |
|---------------------|-----------------------|
| Residential Density | 0.117 |



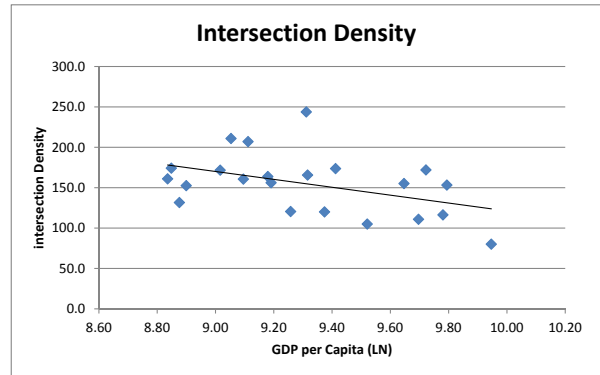
| | <i>GDP per Capita</i> |
|--------------------------|-----------------------|
| Land Allocated to Street | 0.021 |



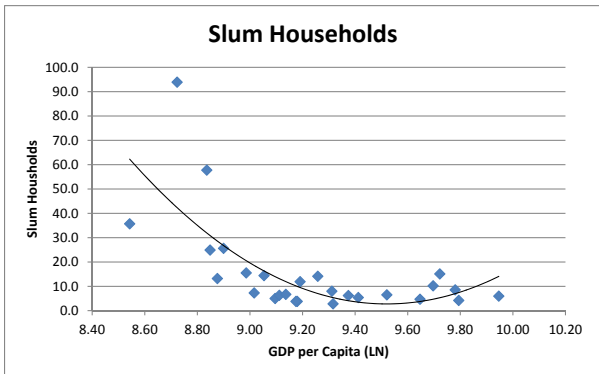
| | <i>GDP per Capita</i> |
|----------------|-----------------------|
| Street Density | -0.446 |



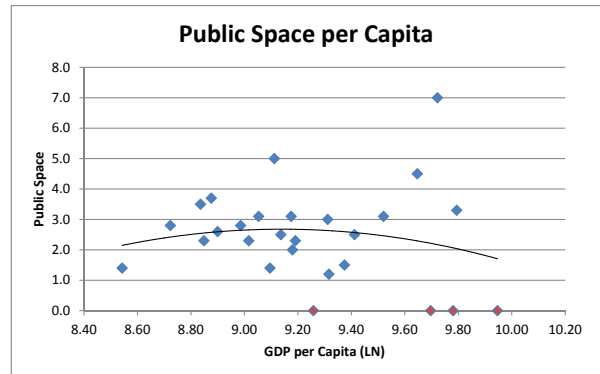
| | <i>GDP per Capita</i> |
|----------------------|-----------------------|
| Intersection Density | -0.440 |



| | <i>GDP per Capita</i> |
|-----------------|-----------------------|
| Slum Households | -0.551 |



| | <i>GDP per Capita</i> |
|--------------|-----------------------|
| Public Space | 0.400 |



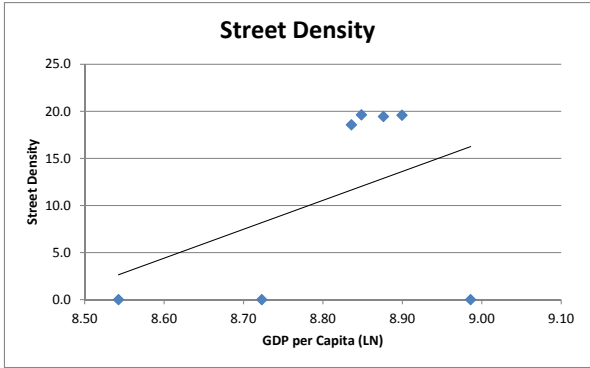
● No Data

CITY PRODUCT (LN) AND URBAN FORM. I

By GDP Groups

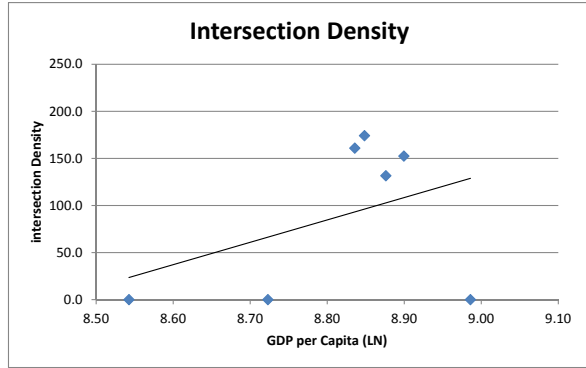
Group 1

| GDP per Capita | |
|----------------|-------|
| Street Density | 0.644 |



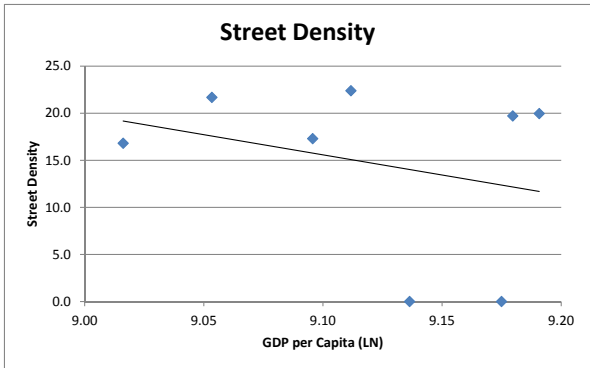
Group 1

| GDP per Capita | |
|--------------------------|--------|
| Land Allocated to Street | -0.548 |



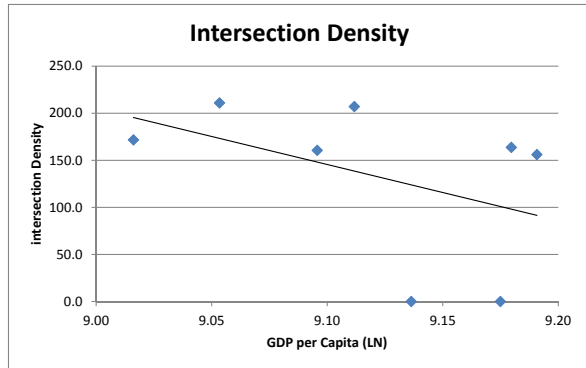
Group 2

| GDP per Capita | |
|----------------|-------|
| Street Density | 0.284 |



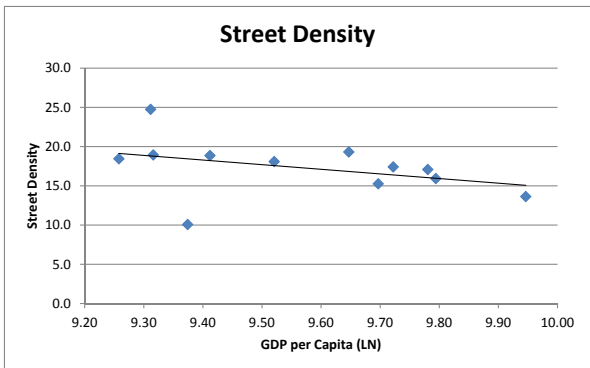
Group 2

| GDP per Capita | |
|----------------------|--------|
| Intersection Density | -0.447 |



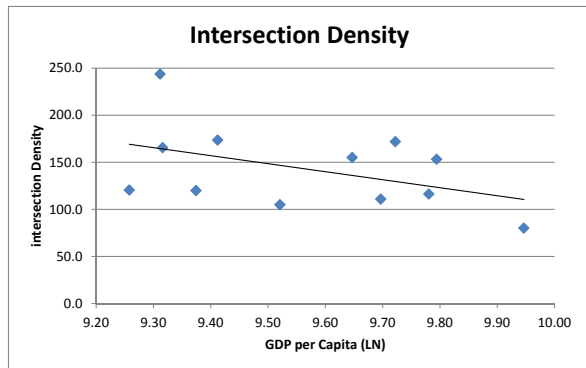
Group 3

| GDP per Capita | |
|----------------|--------|
| Street Density | -0.551 |



Group 3

| GDP per Capita | |
|----------------------|--------|
| Intersection Density | -0.447 |



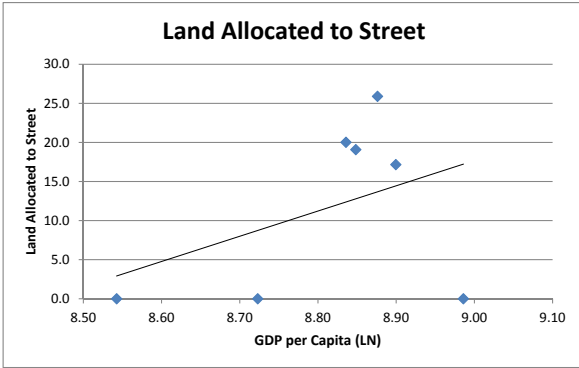
• No Data

| | GDP per Capita | GDP per Capita (LN) |
|---------|----------------|---------------------|
| Group 1 | 5000-7999 | 8.51-8.98 |
| Group 2 | 8000-9999 | 8.98-9.20 |
| Group 3 | 10000-21000 | 9.20-9.95 |

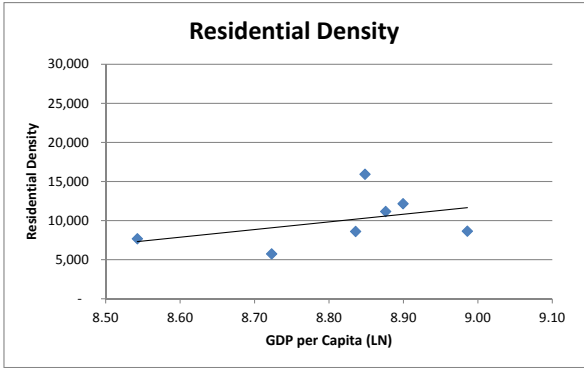
CITY PRODUCT (LN) AND URBAN FORM. II

By GDP Groups

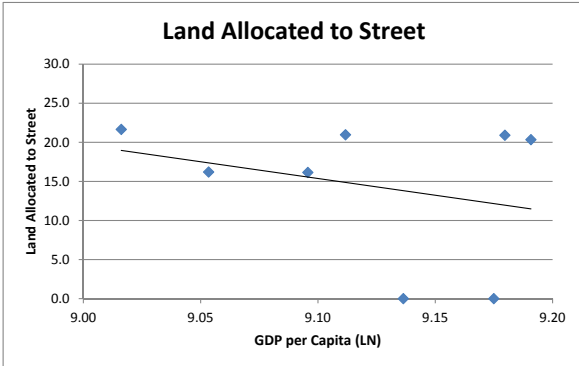
| | <i>GDP per Capita</i> |
|--------------------------|-----------------------|
| Land Allocated to Street | -0.055 |



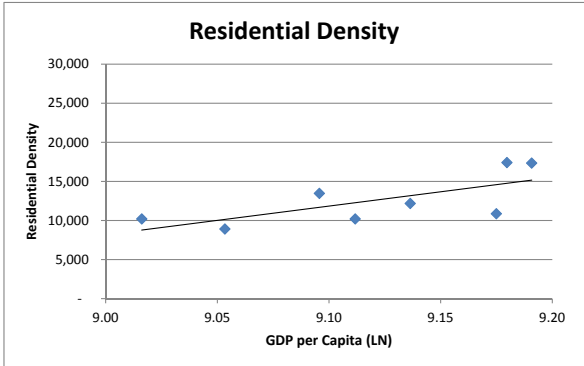
| | <i>GDP per Capita</i> |
|---------------------|-----------------------|
| Residential Density | 0.417 |



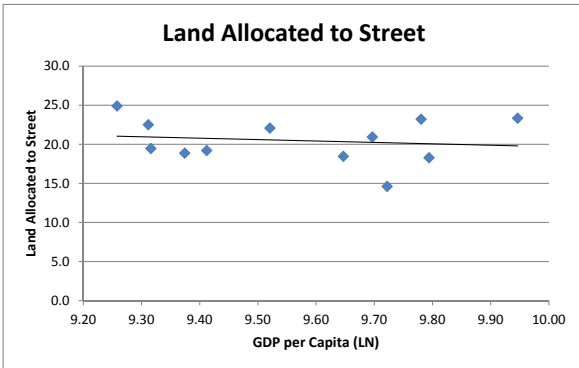
| | <i>GDP per Capita</i> |
|--------------------------|-----------------------|
| Land Allocated to Street | 0.231 |



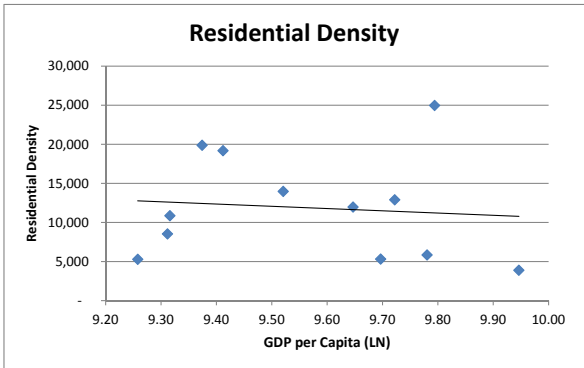
| | <i>GDP per Capita</i> |
|---------------------|-----------------------|
| Residential Density | 0.705 |



| | <i>GDP per Capita</i> |
|--------------------------|-----------------------|
| Land Allocated to Street | -0.143 |



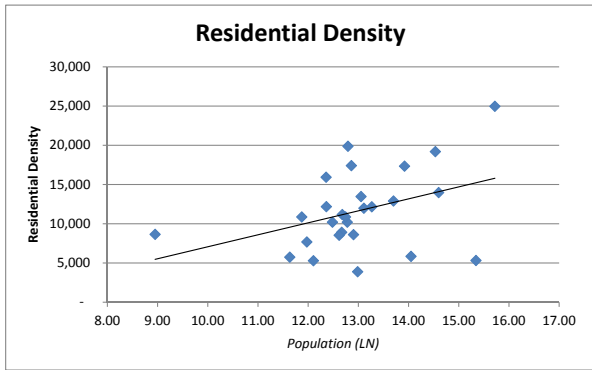
| | <i>GDP per Capita</i> |
|---------------------|-----------------------|
| Residential Density | -0.098 |



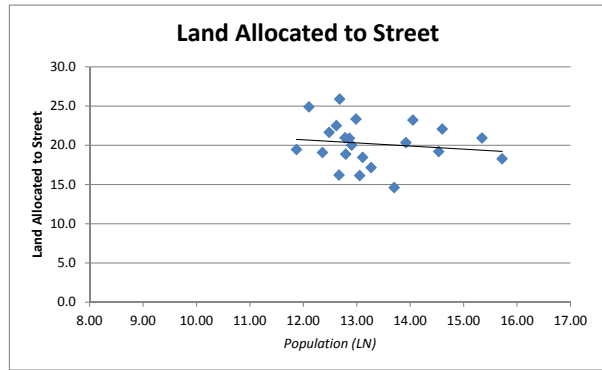
| | <i>GDP per Capita</i> | <i>GDP per Capita (LN)</i> |
|---------|-----------------------|----------------------------|
| Group 1 | 5000-7999 | 8.51-8.98 |
| Group 2 | 8000-9999 | 8.98-9.20 |
| Group 3 | 10000-21000 | 9.20-9.95 |

URBAN POPULATION (LN) AND URBAN FORM

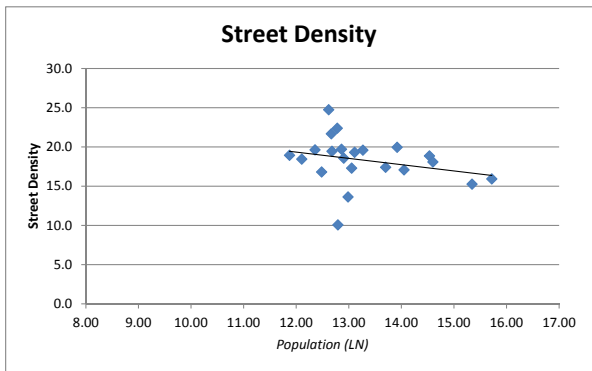
| | |
|---------------------|------------------------|
| | <i>Population (LN)</i> |
| Residential Density | 0.390 |



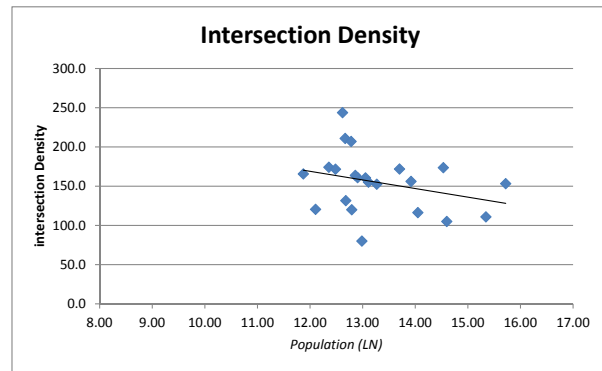
| | |
|--------------------------|------------------------|
| | <i>Population (LN)</i> |
| Land Allocated to Street | -0.142 |



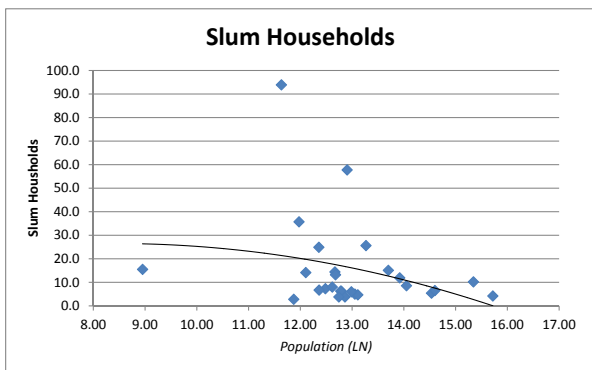
| | |
|----------------|------------------------|
| | <i>Population (LN)</i> |
| Street Density | -0.269 |



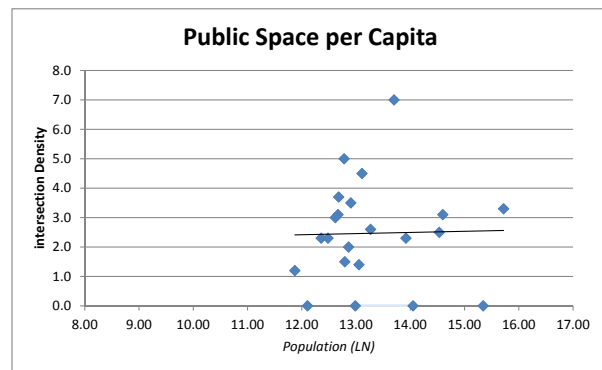
| | |
|----------------------|------------------------|
| | <i>Population (LN)</i> |
| Intersection Density | -0.297 |



| | |
|-----------------|------------------------|
| | <i>Population (LN)</i> |
| Slum Households | -0.2770 |

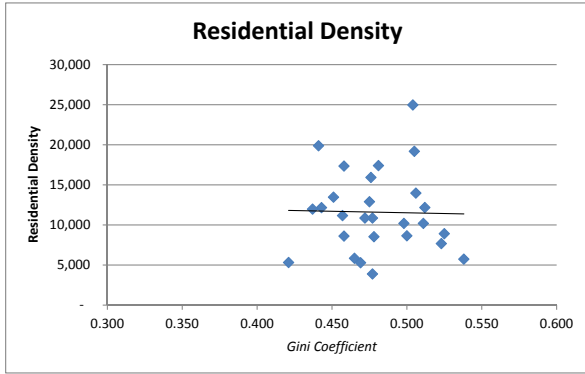


| | |
|-------------------------|------------------------|
| | <i>Population (LN)</i> |
| Public Space per Capita | 0.210 |

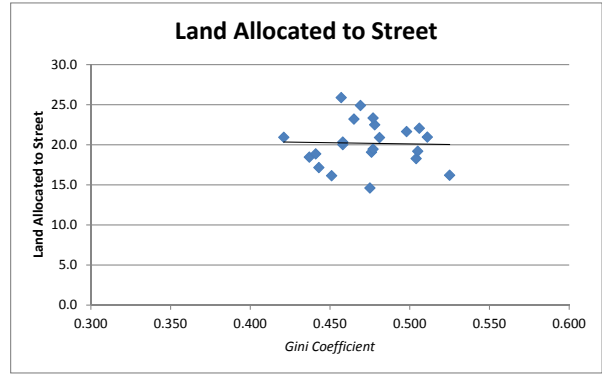


INEQUALITY AND URBAN FORM

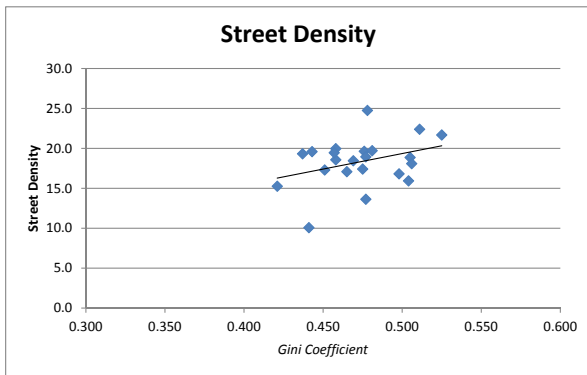
| | |
|---------------------|-------------------------|
| | <i>Gini Coefficient</i> |
| Residential Density | -0.022 |



| | |
|--------------------------|-------------------------|
| | <i>Gini Coefficient</i> |
| Land Allocated to Street | -0.028 |



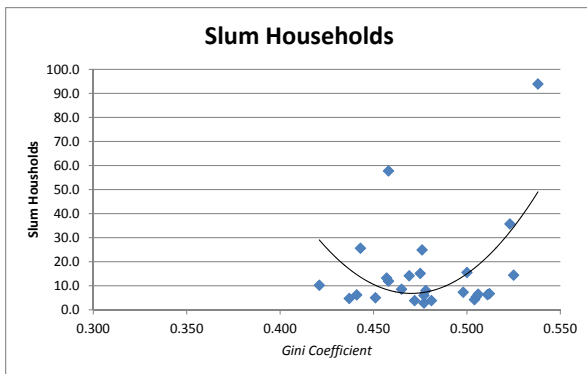
| | |
|----------------|-------------------------|
| | <i>Gini Coefficient</i> |
| Street Density | 0.347 |



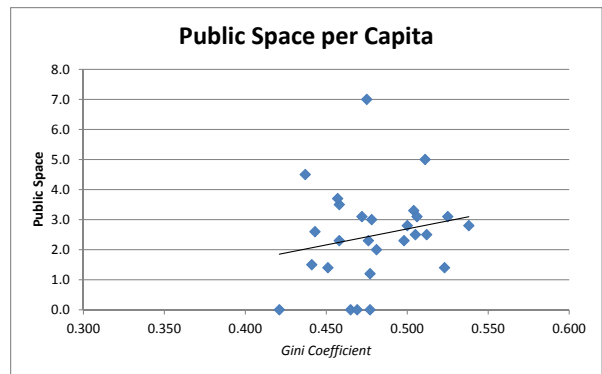
| | |
|----------------------|-------------------------|
| | <i>Gini Coefficient</i> |
| Intersection Density | 0.405 |



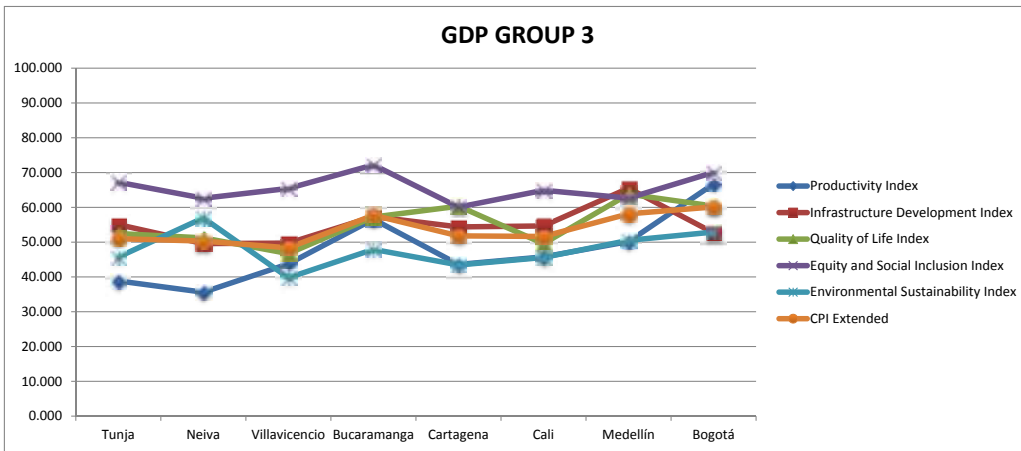
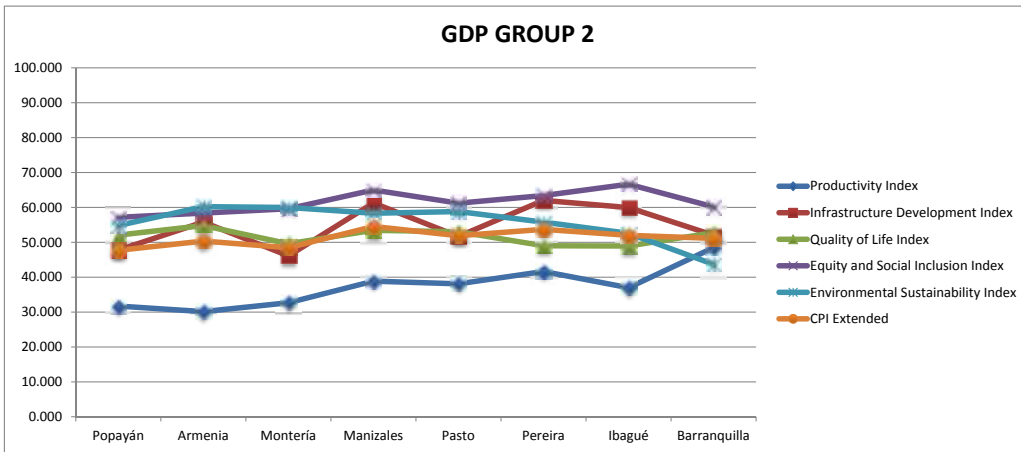
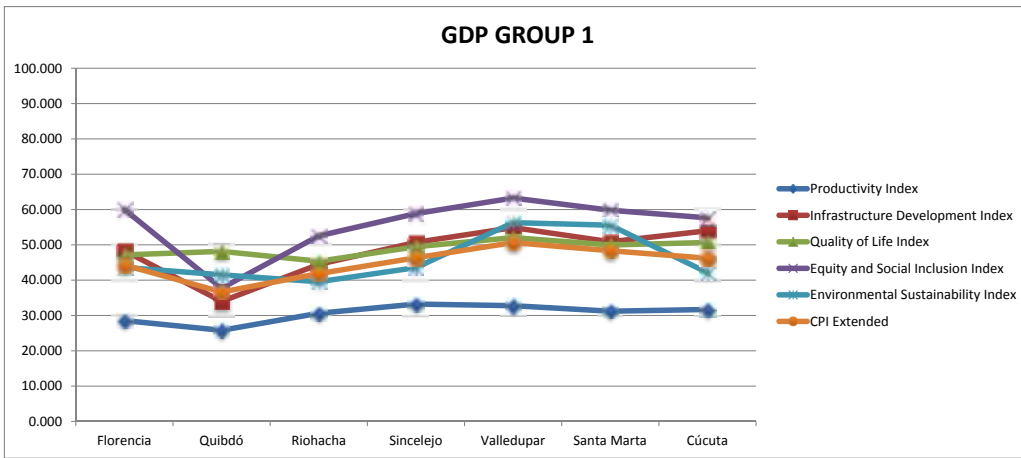
| | |
|-----------------|-------------------------|
| | <i>Gini Coefficient</i> |
| Slum Households | 0.291 |



| | |
|--------------|-------------------------|
| | <i>Gini Coefficient</i> |
| Public Space | -0.014 |

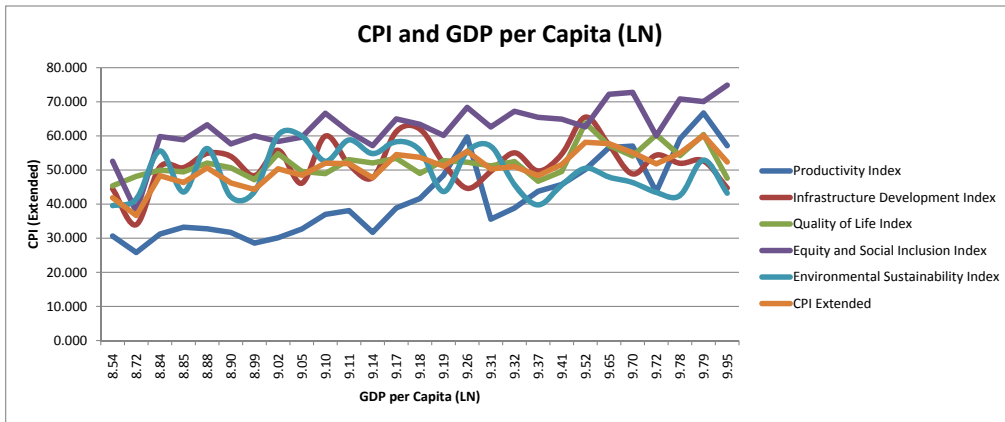


CITY PROSPERITY INDEX AND GDP GROUPS

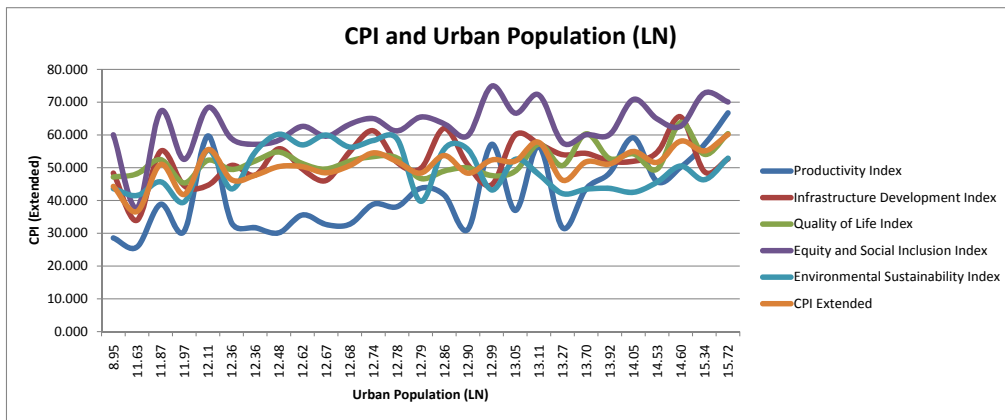


| | <i>GDP per Capita</i> | <i>GDP per Capita (LN)</i> |
|----------------|-----------------------|----------------------------|
| <i>Group 1</i> | 5000-7999 | 8.51-8.98 |
| <i>Group 2</i> | 8000-9999 | 8.98-9.20 |
| <i>Group 3</i> | 10000-21000 | 9.20-9.95 |

CITY PROSPERITY INDEX AND PER CAPITA CITY PRODUCT

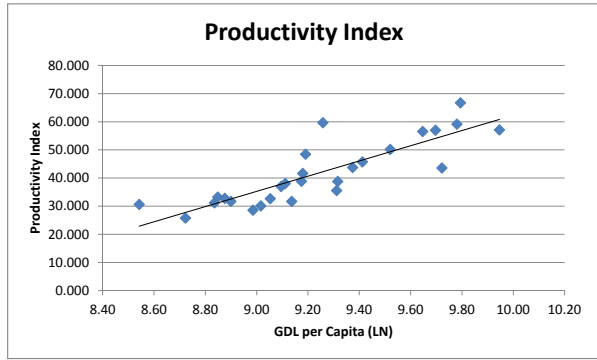


CITY PROSPERITY INDEX AND URBAN POPULATION

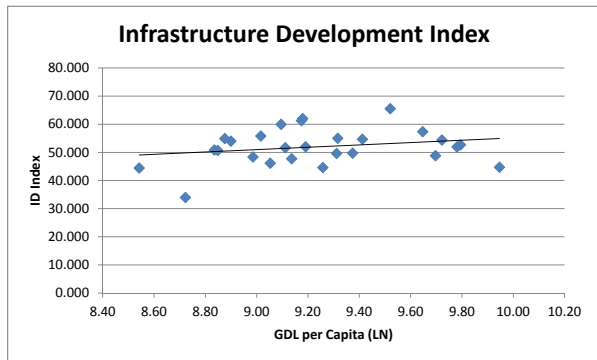


CITY PRODUCT PER CAPITA AND CITY PROSPERITY INDEX

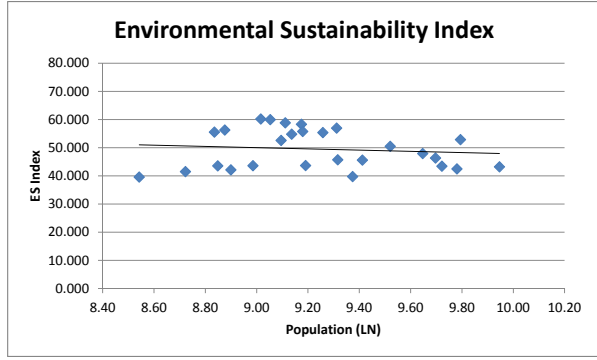
| | |
|--------------------|----------------------------|
| | <i>GDP per Capita (LN)</i> |
| Productivity Index | 0.84958 |



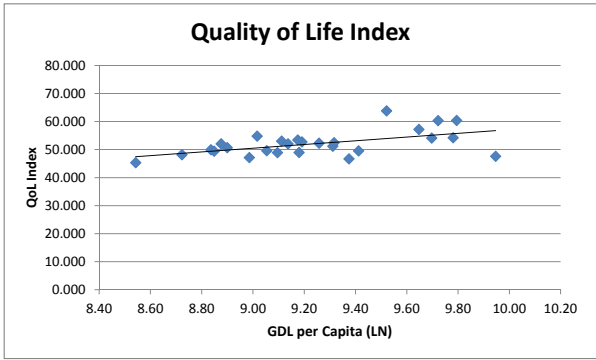
| | |
|----------|----------------------------|
| | <i>GDP per Capita (LN)</i> |
| ID Index | 0.23262 |



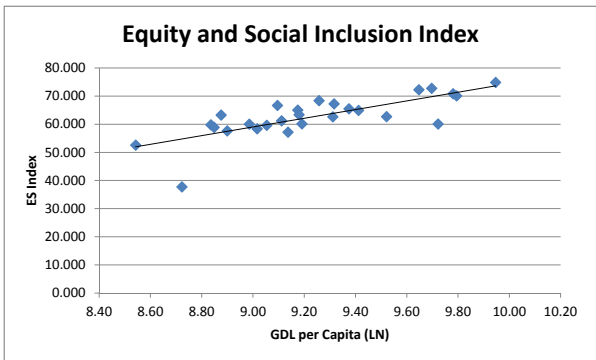
| | |
|----------|----------------------------|
| | <i>GDP per Capita (LN)</i> |
| ES Index | -0.115 |



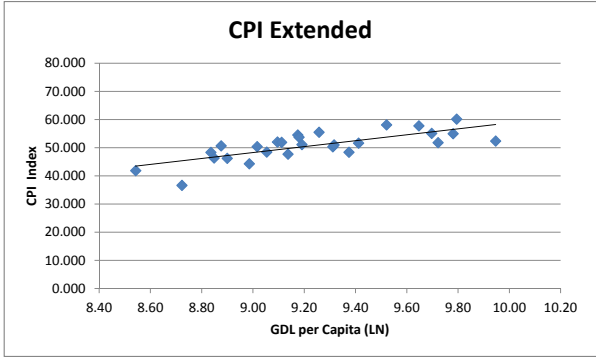
| | |
|-----------|----------------------------|
| | <i>GDP per Capita (LN)</i> |
| QoL Index | 0.543579 |



| | |
|-----------|----------------------------|
| | <i>GDP per Capita (LN)</i> |
| ESI Index | 0.755817 |



| | |
|--------------|----------------------------|
| | <i>GDP per Capita (LN)</i> |
| CPI Extended | 0.746931 |



DATABASE FOR ANALYSIS

| Country | City | Urban Population | In Population | GDP per Capita | GDP per capita (LN) | Gini Coefficient | Residential Density | Land Allocated to Street | Street Density | Intersection Density | Slum Households | Public Space Per Capita | Productivity Index | Infrastructure Development Index | Quality of Life Index | Equity and Social Inclusion Index | Environmental Sustainability Index | CPI Extended | IPU Basic (4 Dimensions - Without Environmental Index) |
|----------|---------------|------------------|---------------|----------------|---------------------|------------------|---------------------|--------------------------|----------------|----------------------|-----------------|-------------------------|--------------------|----------------------------------|-----------------------|-----------------------------------|------------------------------------|--------------|--|
| | | | | | | | | | | | | | | | | | | | |
| Colombia | Cartagena | 891,554 | 13.70 | 16,681.96 | 9.72 | 0.475 | 12,898 | 14.6 | 17.4 | 171.9 | 15.1 | 7.0 | 43.6 | 54.4 | 60.3 | 60.1 | 43.4 | 51.8 | 54.1 |
| Colombia | Ibagué | 466,997 | 13.05 | 8,916.73 | 9.10 | 0.451 | 13,465 | 16.1 | 17.3 | 160.6 | 5.0 | 1.4 | 37.0 | 60.0 | 48.9 | 66.6 | 52.6 | 52.0 | 51.9 |
| Colombia | Montería | 317,474 | 12.67 | 8,547.47 | 9.05 | 0.525 | 8,910 | 16.2 | 21.7 | 210.9 | 14.4 | 3.1 | 32.7 | 46.1 | 49.6 | 59.6 | 60.0 | 48.5 | 45.9 |
| Colombia | Cúcuta | 578,357 | 13.27 | 7,328.52 | 8.90 | 0.443 | 12,158 | 17.2 | 19.6 | 152.5 | 25.6 | 2.6 | 31.7 | 54.0 | 50.7 | 57.6 | 42.1 | 46.2 | 47.3 |
| Colombia | Bogotá | 6,712,343 | 15.72 | 17,927.36 | 9.79 | 0.504 | 24,969 | 18.3 | 15.9 | 153.2 | 4.2 | 3.3 | 66.7 | 52.7 | 60.4 | 70.1 | 52.9 | 60.1 | 62.1 |
| Colombia | Bucaramanga | 494,123 | 13.11 | 15,472.15 | 9.65 | 0.437 | 11,973 | 18.5 | 19.3 | 155.1 | 4.7 | 4.5 | 56.6 | 57.3 | 57.2 | 72.2 | 47.9 | 57.7 | 60.5 |
| Colombia | Villavicencio | 359,642 | 12.79 | 11,780.54 | 9.37 | 0.441 | 19,876 | 18.9 | 10.1 | 120.0 | 6.2 | 1.5 | 43.8 | 49.7 | 46.7 | 65.4 | 39.8 | 48.4 | 50.8 |
| Colombia | Sincelejo | 232,822 | 12.36 | 6,963.27 | 8.85 | 0.476 | 15,927 | 19.1 | 19.6 | 174.2 | 24.9 | 2.3 | 33.2 | 50.7 | 49.5 | 58.9 | 43.5 | 46.3 | 47.1 |
| Colombia | Cali | 2,051,134 | 14.53 | 12,234.05 | 9.41 | 0.505 | 19,187 | 19.2 | 18.9 | 173.6 | 5.4 | 2.5 | 45.8 | 54.7 | 49.6 | 64.9 | 45.6 | 51.6 | 53.3 |
| Colombia | Tunja | 143,269 | 11.87 | 11,114.74 | 9.32 | 0.477 | 10,863 | 19.5 | 18.9 | 165.6 | 2.8 | 1.2 | 38.8 | 55.0 | 52.5 | 67.2 | 45.7 | 51.0 | 52.4 |
| Colombia | Santa Marta | 401,826 | 12.90 | 6,876.01 | 8.84 | 0.458 | 8,607 | 20.0 | 18.6 | 160.9 | 57.8 | 3.5 | 31.2 | 50.9 | 50.0 | 59.8 | 55.6 | 48.3 | 46.7 |
| Colombia | Barranquilla | 1,109,664 | 13.92 | 9,806.11 | 9.19 | 0.458 | 17,341 | 20.3 | 20.0 | 156.1 | 11.9 | 2.3 | 48.5 | 52.0 | 52.8 | 60.1 | 43.7 | 51.1 | 53.2 |
| Colombia | Pereira | 385,091 | 12.86 | 9,697.96 | 9.18 | 0.481 | 17,405 | 20.9 | 19.7 | 163.8 | 3.8 | 2.0 | 41.6 | 62.0 | 49.0 | 63.4 | 55.8 | 53.7 | 53.2 |
| Mexico | Guadalajara | 4,610,601 | 15.34 | 16,263.30 | 9.70 | 0.421 | 5,316 | 20.9 | 15.3 | 110.9 | 10.2 | ND | 57.0 | 48.8 | 54.1 | 72.8 | 46.3 | 55.1 | 57.5 |
| Colombia | Pasto | 355,171 | 12.78 | 9,060.98 | 9.11 | 0.511 | 10,195 | 21.0 | 22.4 | 207.1 | 6.3 | 5.0 | 38.1 | 51.7 | 53.0 | 61.2 | 58.8 | 51.9 | 50.3 |
| Colombia | Armenia | 263,946 | 12.48 | 8,235.09 | 9.02 | 0.498 | 10,195 | 21.7 | 16.8 | 171.7 | 7.3 | 2.3 | 30.1 | 55.8 | 54.8 | 58.4 | 60.2 | 50.4 | 48.2 |
| Colombia | Medellín | 2,190,409 | 14.60 | 13,638.41 | 9.52 | 0.506 | 13,973 | 22.1 | 18.1 | 105.0 | 6.5 | 3.1 | 50.2 | 65.5 | 63.8 | 62.7 | 50.5 | 58.1 | 60.2 |
| Colombia | Neiva | 301,806 | 12.62 | 11,065.53 | 9.31 | 0.478 | 8,532 | 22.5 | 24.8 | 243.8 | 8.0 | 3.0 | 35.6 | 49.6 | 51.2 | 62.6 | 57.0 | 50.3 | 48.8 |
| Mexico | Zapopan | 1,264,459 | 14.05 | 17,685.78 | 9.78 | 0.465 | 5,840 | 23.2 | 17.1 | 116.3 | 8.6 | ND | 59.1 | 52.0 | 54.2 | 70.8 | 42.5 | 55.0 | 58.6 |
| Mexico | Cajeme | 436,136 | 12.99 | 20,875.46 | 9.95 | 0.477 | 3,883 | 23.3 | 13.6 | 80.1 | 6.0 | ND | 57.1 | 44.7 | 47.6 | 74.9 | 43.2 | 52.4 | 54.9 |
| Mexico | Corregidora | 180,777 | 12.11 | 10,487.09 | 9.26 | 0.469 | 5,284 | 24.9 | 18.5 | 120.5 | 14.1 | ND | 59.7 | 44.6 | 52.3 | 68.4 | 55.4 | 55.5 | 55.6 |
| Colombia | Valledupar | 321,043 | 12.68 | 7,158.97 | 8.88 | 0.457 | 11,166 | 25.9 | 19.5 | 131.6 | 13.2 | 3.7 | 32.8 | 54.9 | 52.0 | 63.3 | 56.3 | 50.6 | 49.3 |
| Colombia | Florencia | 7,719 | 8.95 | 7,989.41 | 8.99 | 0.500 | 8,646 | ND | ND | ND | 15.5 | 2.8 | 28.6 | 48.4 | 47.2 | 60.0 | 43.6 | 44.3 | 44.5 |
| Colombia | Manizales | 342,537 | 12.74 | 9,652.10 | 9.17 | 0.472 | 10,863 | ND | ND | ND | 3.8 | 3.1 | 38.9 | 61.3 | 53.4 | 65.0 | 58.3 | 54.5 | 53.6 |
| Colombia | Popayán | 233,887 | 12.36 | 9,286.92 | 9.14 | 0.512 | 12,175 | ND | ND | ND | 6.7 | 2.5 | 31.7 | 47.7 | 52.1 | 57.1 | 54.8 | 47.7 | 46.1 |
| Colombia | Quibdó | 112,875 | 11.63 | 6,142.53 | 8.72 | 0.538 | 5,736 | ND | ND | ND | 93.9 | 2.8 | 25.8 | 34.0 | 48.2 | 37.7 | 41.5 | 36.7 | 35.5 |
| Colombia | Riohacha | 158,626 | 11.97 | 5,128.62 | 8.54 | 0.523 | 7,674 | ND | ND | ND | 35.7 | 1.4 | 30.6 | 44.5 | 45.4 | 52.6 | 39.6 | 41.9 | 42.4 |

SUMMARY OF CORRELATIONS

| | In Population | PIB per Capita | GDP per capita (LN) | Gini Coefficient | Residential Density | Land Allocated to Street | Steet Density | Intersection Density | Slum Households | Public Space Per Capita |
|--------------------------|---------------|----------------|---------------------|------------------|---------------------|--------------------------|---------------|----------------------|-----------------|-------------------------|
| In Population | | 0.580 | 0.586 | -0.270 | 0.390 | -0.142 | -0.269 | -0.297 | -0.277 | 0.210 |
| PIB per Capita | 0.580 | | | -0.273 | 0.053 | 0.036 | -0.472 | -0.482 | -0.460 | 0.445 |
| GDP per capita (LN) | 0.586 | | | -0.309 | 0.117 | 0.021 | -0.446 | -0.440 | -0.551 | 0.400 |
| Gini Coefficient | -0.270 | -0.273 | -0.309 | | -0.022 | -0.028 | 0.347 | 0.405 | 0.291 | -0.014 |
| Residential Density | 0.390 | 0.053 | 0.117 | -0.022 | | -0.419 | -0.141 | 0.153 | -0.324 | -0.114 |
| Land Allocated to Street | -0.142 | 0.036 | 0.021 | -0.028 | -0.419 | | 0.034 | -0.369 | -0.089 | -0.150 |
| Steet Density | -0.269 | -0.472 | -0.446 | 0.347 | -0.141 | 0.034 | | 0.749 | 0.126 | 0.222 |
| Intersection Density | -0.297 | -0.482 | -0.440 | 0.405 | 0.153 | -0.369 | 0.749 | | 0.070 | 0.177 |
| Slum Households | -0.277 | -0.460 | -0.551 | 0.291 | -0.324 | -0.089 | 0.126 | 0.070 | | 0.007 |
| Public Space Per Capita | 0.210 | 0.445 | 0.400 | -0.014 | -0.114 | -0.150 | 0.222 | 0.177 | 0.007 | |

| Absolute Correlation | In Population | PIB per Capita | GDP per capita (LN) | Gini Coefficient | Residential Density | Land Allocated to Street | Steet Density | Intersection Density | Slum Households | Public Space Per Capita |
|--------------------------|---------------|----------------|---------------------|------------------|---------------------|--------------------------|---------------|----------------------|-----------------|-------------------------|
| In Population | | 0.580 | 0.586 | 0.270 | 0.390 | 0.142 | 0.269 | 0.297 | 0.277 | 0.210 |
| PIB per Capita | 0.580 | | | 0.273 | 0.053 | 0.036 | 0.472 | 0.482 | 0.460 | 0.445 |
| GDP per capita (LN) | 0.586 | | | 0.309 | 0.117 | 0.021 | 0.446 | 0.440 | 0.551 | 0.400 |
| Gini Coefficient | 0.270 | 0.273 | 0.309 | | 0.022 | 0.028 | 0.347 | 0.405 | 0.291 | 0.014 |
| Residential Density | 0.390 | 0.053 | 0.117 | 0.022 | | 0.419 | 0.141 | 0.153 | 0.324 | 0.114 |
| Land Allocated to Street | 0.142 | 0.036 | 0.021 | 0.028 | 0.419 | | 0.034 | 0.369 | 0.089 | 0.150 |
| Steet Density | 0.269 | 0.472 | 0.446 | 0.347 | 0.141 | 0.034 | | 0.749 | 0.126 | 0.222 |
| Intersection Density | 0.297 | 0.482 | 0.440 | 0.405 | 0.153 | 0.369 | 0.749 | | 0.070 | 0.177 |
| Slum Households | 0.277 | 0.460 | 0.551 | 0.291 | 0.324 | 0.089 | 0.126 | 0.070 | | 0.007 |
| Public Space Per Capita | 0.210 | 0.445 | 0.400 | 0.014 | 0.114 | 0.150 | 0.222 | 0.177 | 0.007 | |