Replication package for: Reviewing Assessment Tools for Measuring Country Statistical Capacity

Brian Stacy

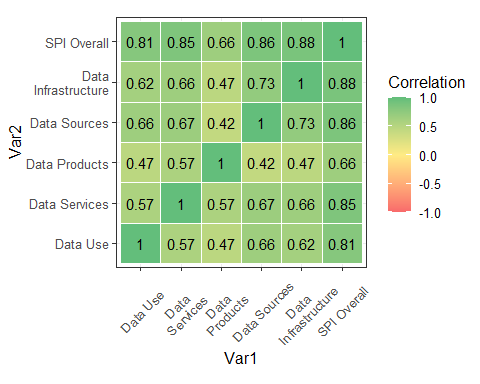
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## Figure M.1. The Pillars and Dimensions that Construct the New SPI

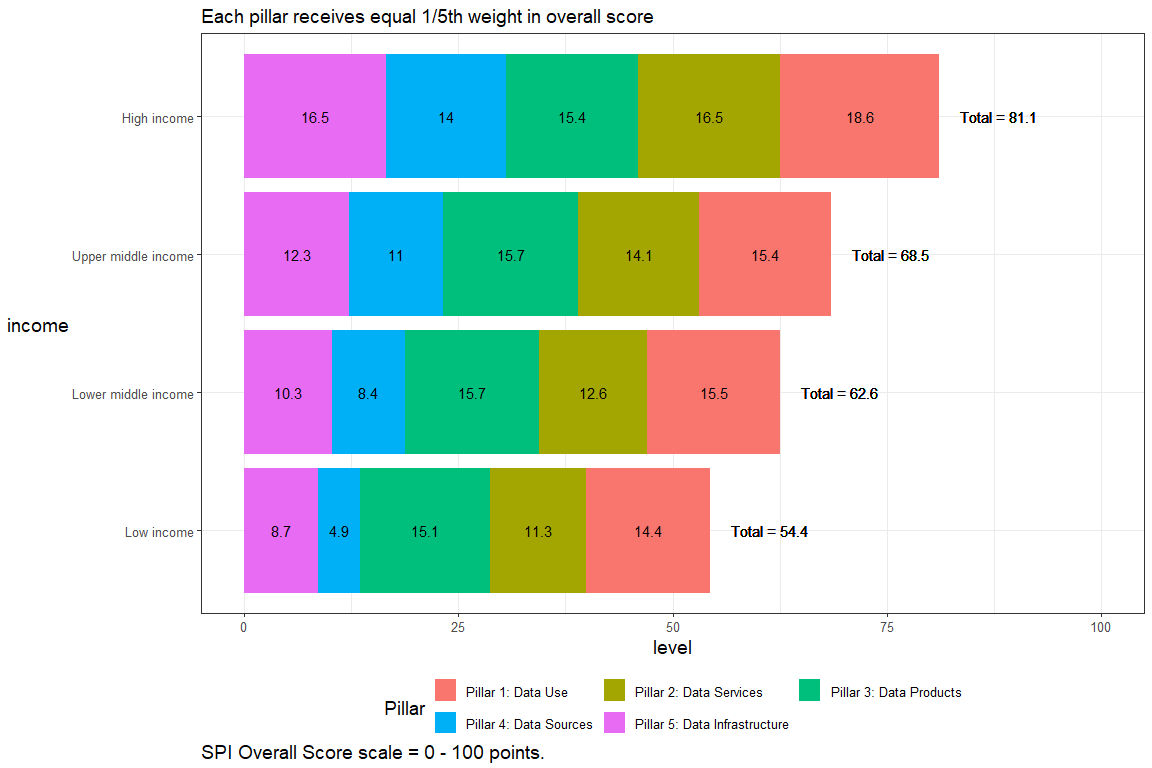
Figure produced using Microsoft Powerpoint. Figure reproduced below.

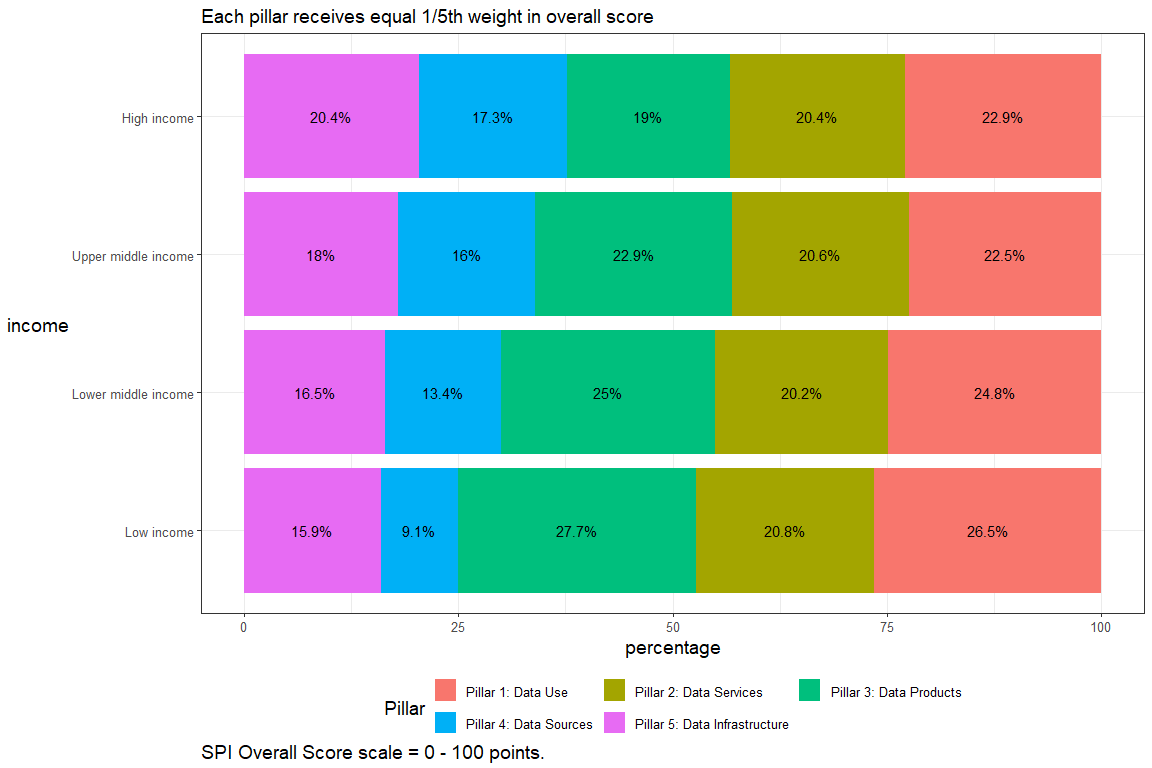


## Figure M.2. Correlation between the SPI Pillars

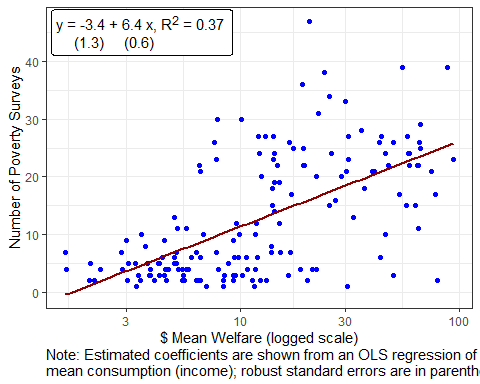


## Figure M.3. Contribution of Each Pillar to SPI Score, by Country Income Level





## Figure 1. Number of Household Surveys vs. Country Income, 1982- 2022



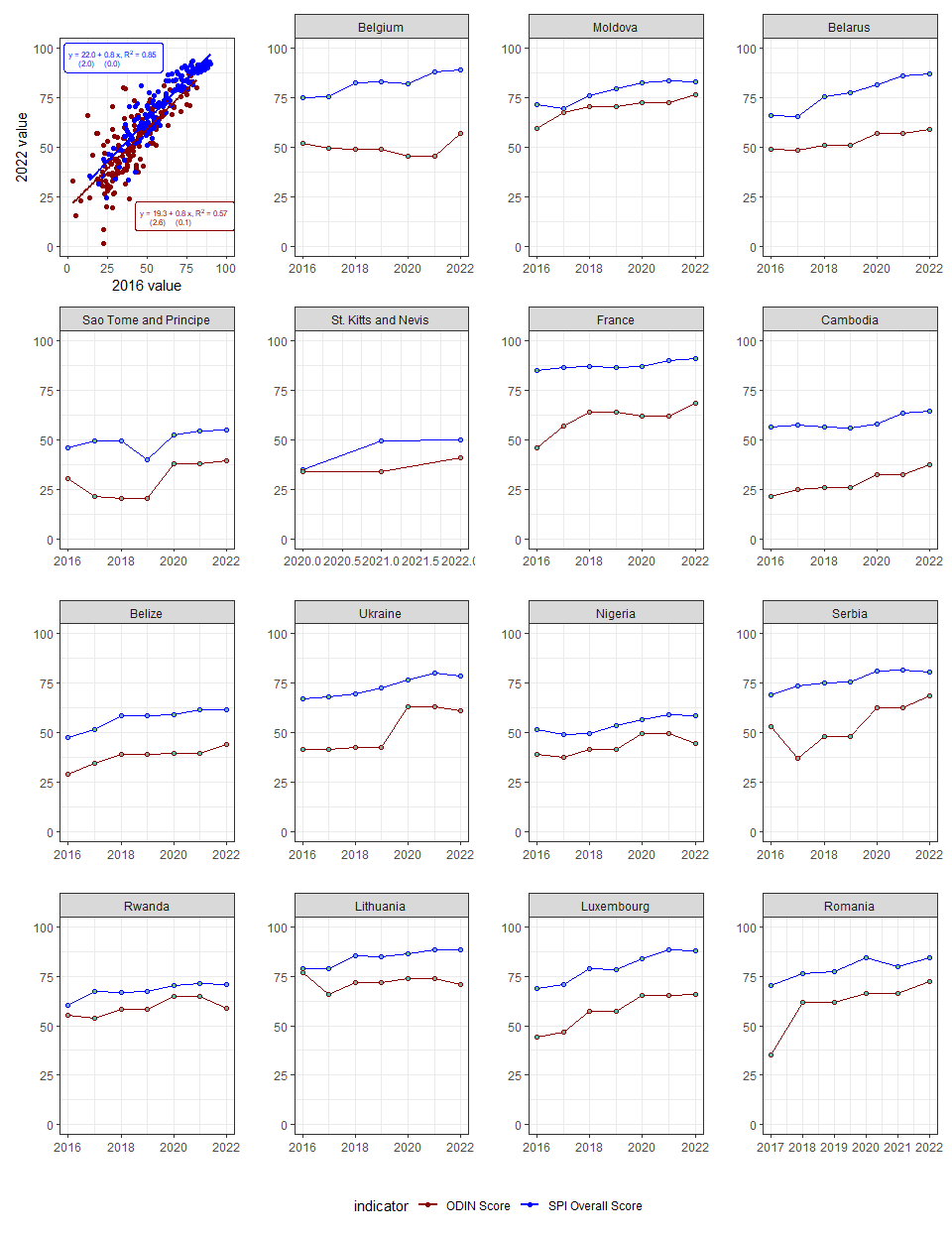
**Note**: This figure employs data from the World Bank’s PIP database.

## Figure 2. Mapping Other Data Tools to SPI Framework



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## Figure 3. Trends in Overall ODIN and SPI Scores, 2016-2022



## Figure 4. Absolute Value of Correlation between Key SDGs and Indexes

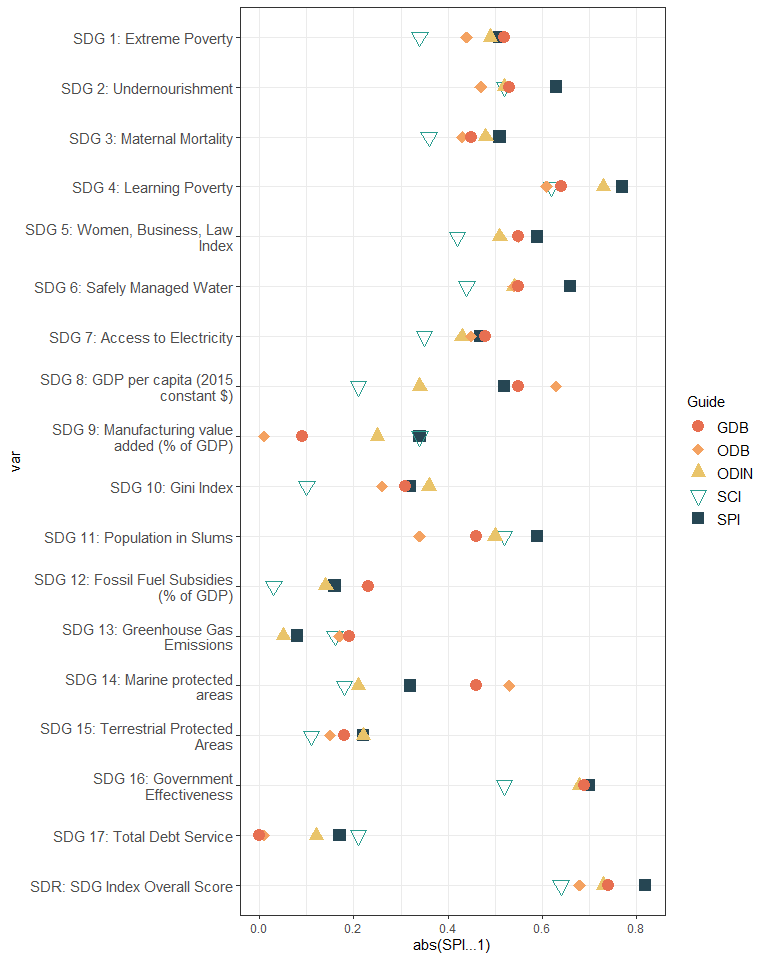


Figure 5. Theory of Change

Figure created using Microsoft Powerpoint. Image shown below for completeness.



## Table A.6.A. Bivariate Correlation between Statistical Indexes and Key Development Outcomes

| Table. Correlation between Development Outcomes | | | | | |
| --- | --- | --- | --- | --- | --- |
| var | GDB | ODB | ODIN | SCI | SPI |
| SDG 1: Extreme Poverty | -0.52\*\*\* | -0.44\*\*\* | -0.49\*\*\* | -0.34\*\*\* | -0.51\*\*\* |
| SDG 2: Undernourishment | -0.53\*\*\* | -0.47\*\*\* | -0.52\*\*\* | -0.52\*\*\* | -0.63\*\*\* |
| SDG 3: Maternal Mortality | -0.45\*\*\* | -0.43\*\*\* | -0.48\*\*\* | -0.36\*\*\* | -0.51\*\*\* |
| SDG 4: Learning Poverty | -0.64\*\*\* | -0.61\*\*\* | -0.73\*\*\* | -0.62\*\*\* | -0.77\*\*\* |
| SDG 5: Women, Business, Law Index | 0.55\*\*\* | 0.55\*\*\* | 0.51\*\*\* | 0.42\*\*\* | 0.59\*\*\* |
| SDG 6: Safely Managed Water | 0.55\*\*\* | 0.54\*\*\* | 0.54\*\*\* | 0.44\*\*\* | 0.66\*\*\* |
| SDG 7: Access to Electricity | 0.48\*\*\* | 0.45\*\*\* | 0.43\*\*\* | 0.35\*\*\* | 0.47\*\*\* |
| SDG 8: GDP per capita (2015 constant $) | 0.55\*\*\* | 0.63\*\*\* | 0.34\*\*\* | 0.21\*\* | 0.52\*\*\* |
| SDG 9: Manufacturing value added (% of GDP) | 0.09\*\* | -0.01 | 0.25\*\*\* | 0.34\*\*\* | 0.34\*\*\* |
| SDG 10: Gini Index | -0.31\*\*\* | -0.26\*\*\* | -0.36\*\*\* | -0.1\*\* | -0.32\*\*\* |
| SDG 11: Population in Slums | -0.46\*\*\* | -0.34\*\*\* | -0.5\*\*\* | -0.52\*\*\* | -0.59\*\*\* |
| SDG 12: Fossil Fuel Subsidies (% of GDP) | -0.23\*\* | -0.23\*\* | -0.14\* | -0.03 | -0.16\*\* |
| SDG 13: Greenhouse Gas Emissions | 0.19\*\* | 0.17\* | 0.05\*\* | 0.16\* | 0.08\*\* |
| SDG 14: Marine protected areas | 0.46\*\*\* | 0.53\*\*\* | 0.21\*\*\* | 0.18\* | 0.32\*\*\* |
| SDG 15: Terrestrial Protected Areas | 0.18\* | 0.15\*\* | 0.22\*\*\* | 0.11\*\* | 0.22\*\*\* |
| SDG 16: Government Effectiveness | 0.69\*\*\* | 0.69\*\*\* | 0.68\*\*\* | 0.52\*\*\* | 0.7\*\*\* |
| SDG 17: Total Debt Service | 0 | 0.01 | 0.12\*\* | 0.21\*\* | 0.17\* |
| SDR: SDG Index Overall Score | 0.74\*\*\* | 0.68\*\*\* | 0.73\*\*\* | 0.64\*\*\* | 0.82\*\*\* |
| Note: \* p<0.1,\*\* p<0.05,\*\*\* p<0.01 | | | | | |

Table A.6.B: Testing for Bivaration Correlation between Statistical Indexes and Key Development Outcomes

| SDG | GDB | | | | | ODB | | | | | ODIN | | | | | SCI | | | | | SPI | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SDG 1: Extreme Poverty |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDG 2: Undernourishment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDG 3: Maternal Mortality |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDG 4: Learning Poverty |  |  |  |  | SPI |  |  |  |  | SPI |  |  |  |  |  |  |  |  |  | SPI | GDB | ODB |  | SCI |  |
| SDG 5: Women, Business, Law Index |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDG 6: Safely Managed Water |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SPI |  |  |  | SCI |  |
| SDG 7: Access to Electricity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDG 8: GDP per capita (2015 constant $) |  |  | ODIN | SCI |  |  |  | ODIN | SCI |  | GDB | ODB |  |  |  | GDB | ODB |  |  | SPI |  |  |  | SCI |  |
| SDG 9: Manufacturing value added (% of GDP) |  |  |  | SCI | SPI |  |  | ODIN | SCI | SPI |  | ODB |  |  |  | GDB | ODB |  |  |  | GDB | ODB |  |  |  |
| SDG 10: Gini Index |  |  |  |  |  |  |  |  |  |  |  |  |  | SCI |  |  |  | ODIN |  |  |  |  |  |  |  |
| SDG 11: Population in Slums |  |  |  |  |  |  |  |  |  | SPI |  |  |  |  |  |  |  |  |  |  |  | ODB |  |  |  |
| SDG 12: Fossil Fuel Subsidies (% of GDP) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDG 13: Greenhouse Gas Emissions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDG 14: Marine protected areas |  |  | ODIN | SCI |  |  |  | ODIN | SCI | SPI | GDB | ODB |  |  |  | GDB | ODB |  |  |  |  | ODB |  |  |  |
| SDG 15: Terrestrial Protected Areas |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDG 16: Government Effectiveness |  |  |  | SCI |  |  |  |  | SCI |  |  |  |  |  |  | GDB | ODB |  |  | SPI |  |  |  | SCI |  |
| SDG 17: Total Debt Service |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDR: SDG Index Overall Score |  |  |  |  |  |  |  |  |  | SPI |  |  |  |  |  |  |  |  |  | SPI |  | ODB |  | SCI |  |

Note: the indexes with a correlation with the shown SDG outcome that is statistically not different from each other are shown in adjacent row. For example, GDB and SPI have correlations with SDG 1 that are not statistically different from each other.