

Statistical Performance Indicators

World Bank, Development Data Group

2021-02-04

Introduction

- World Bank Development Data Group (DECDG) will be releasing new set of Statistical Performance Indicators (SPI) along with WDR
- Will be major overhaul of Statistical Capacity Index
- SPI are tool for countries/donors to assess statistical system

Based on feedback, goal was for SPI framework to:

- Be forward looking (relevant at least 15 years)
- Measure less advanced systems, as well as more advanced systems
- Cover entire national statistical system, not just NSO
- Give countries incentives to build modern statistical system
- Open data and open code

Framework Overview

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 4. Data Sources
 - Censuses and surveys, admin data, geospatial, private/citizen generated data
 5. Data Infrastructure
 - Legislation and governance, standards & methods, skill, partnerships, and finance

SPI Framework

Dimensions	Dashboard Architecture				
Data Use (User Types)	Legislature Executive Civil Society Academia International Bodies				
Data Services (Service Types)	Quality of Data Releases	Richness and Openness of Online Access	Effectiveness of Advisory and Analytical Services Related to Statistics	Availability and Use of Data Services	
Data Products (Topics)	Social (SDG 1-6)	Economic (SDG 7-12)	Environmental (SDG 13-15)	Institution (SDG 16-17)	
Data Sources	Statistical Office (Censuses and Surveys)	Administrative Data	Geospatial Data	Private Sector Data / Citizen Generated Data	
Data Infrastructure	Legislation and Governance	Standards and Methods	Skills	Partnership	Finance (Domestically and from Donors)

Overall Scores Across Countries

Overview Summary of Results

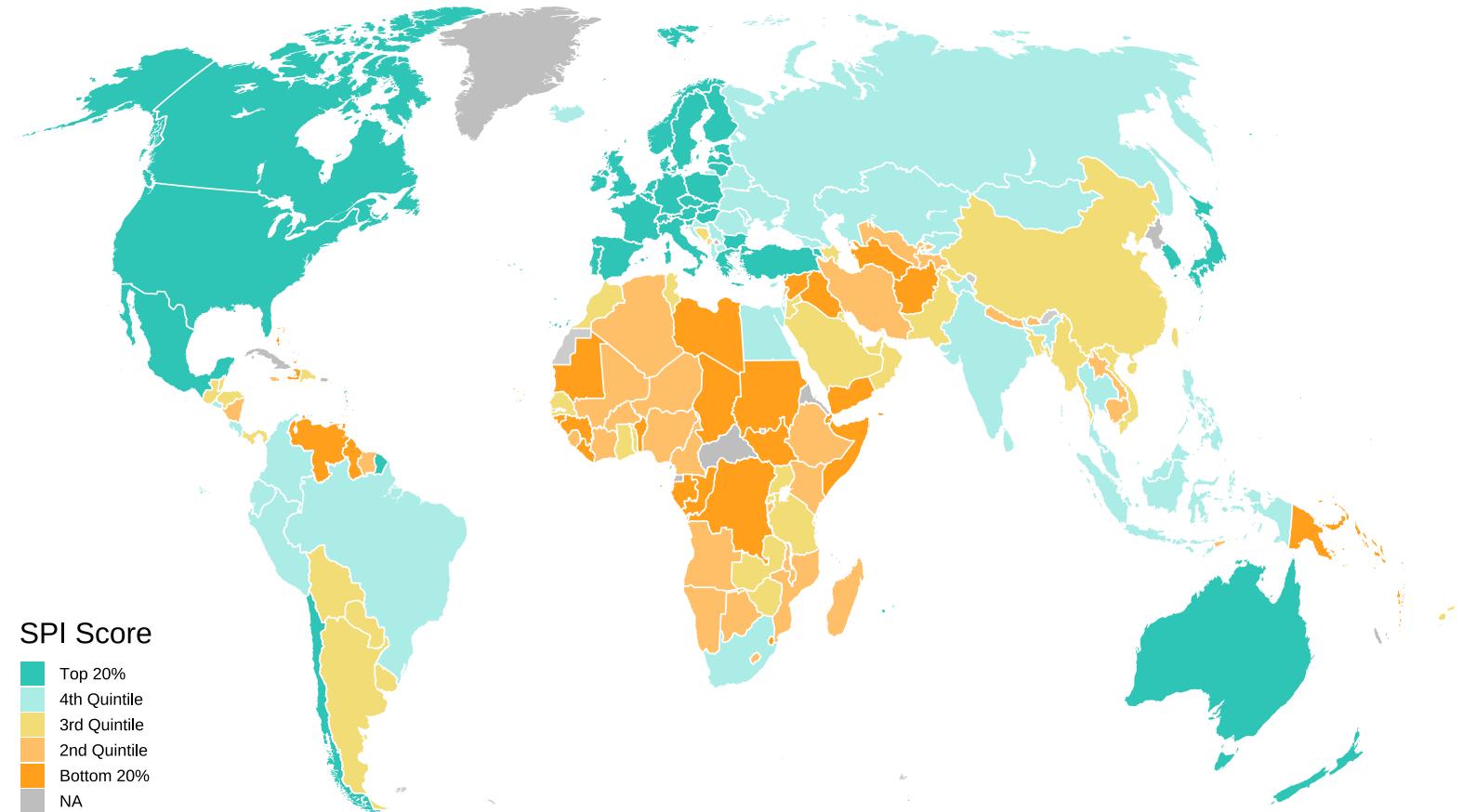
- Next, we will provide overall index
- Will present aggregate scores overall and for each dimension
- Given imprecision inherent in calculations, we recommend color coding providing subdivisions of maturity.

Countries are grouped into five groups:

- **Top 20%**: Shading in **dark green**.
- **4th Quantile**: Shading in **light green**.
- **3rd Quantile**: Shading in **yellow**.
- **2nd Quantile**: Shading in **light orange**.
- **Bottom 20%**: Shading in **dark orange**.

High income OECD countries tend to have most mature systems, and low income countries have least mature systems.

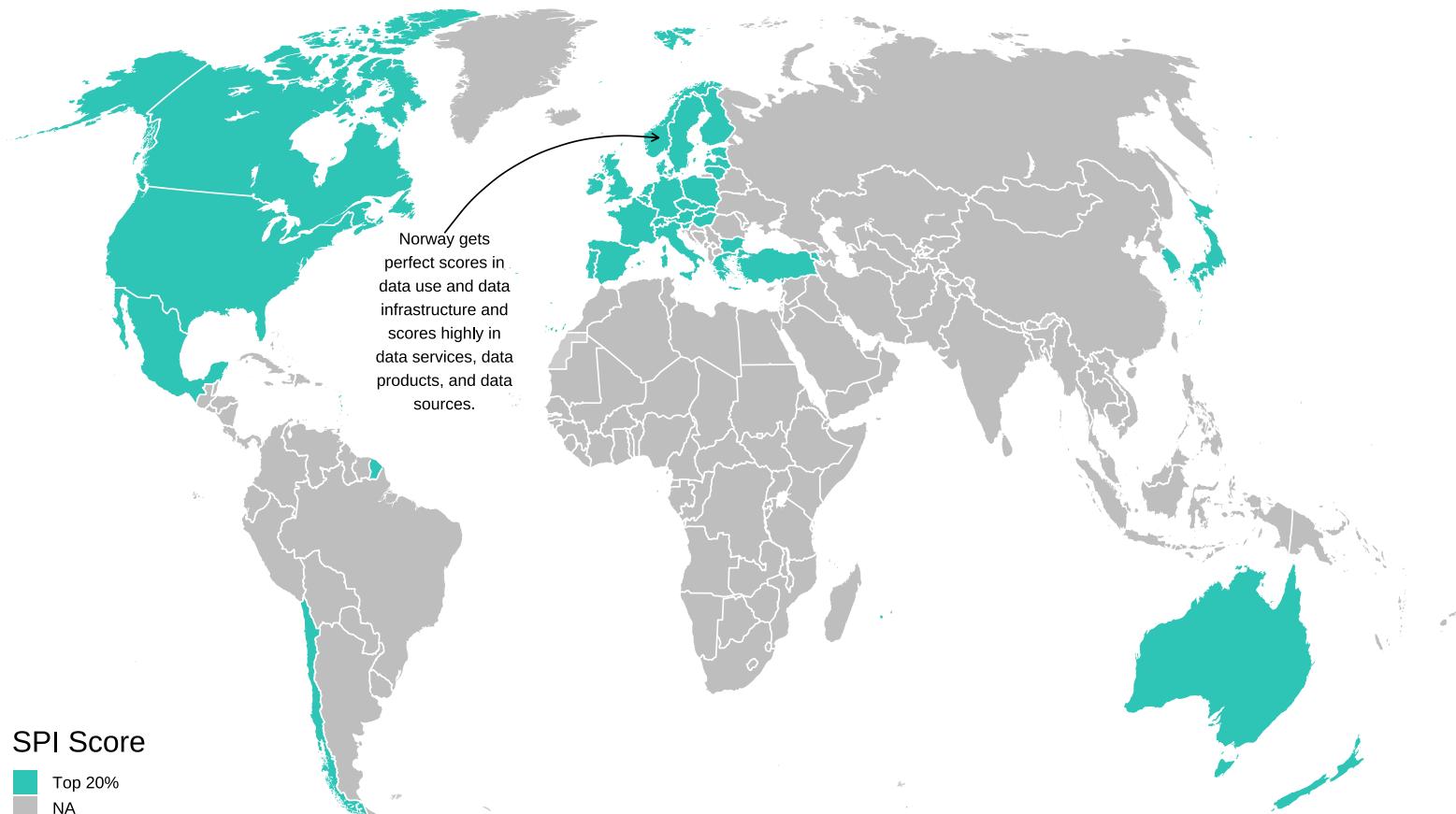
Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators

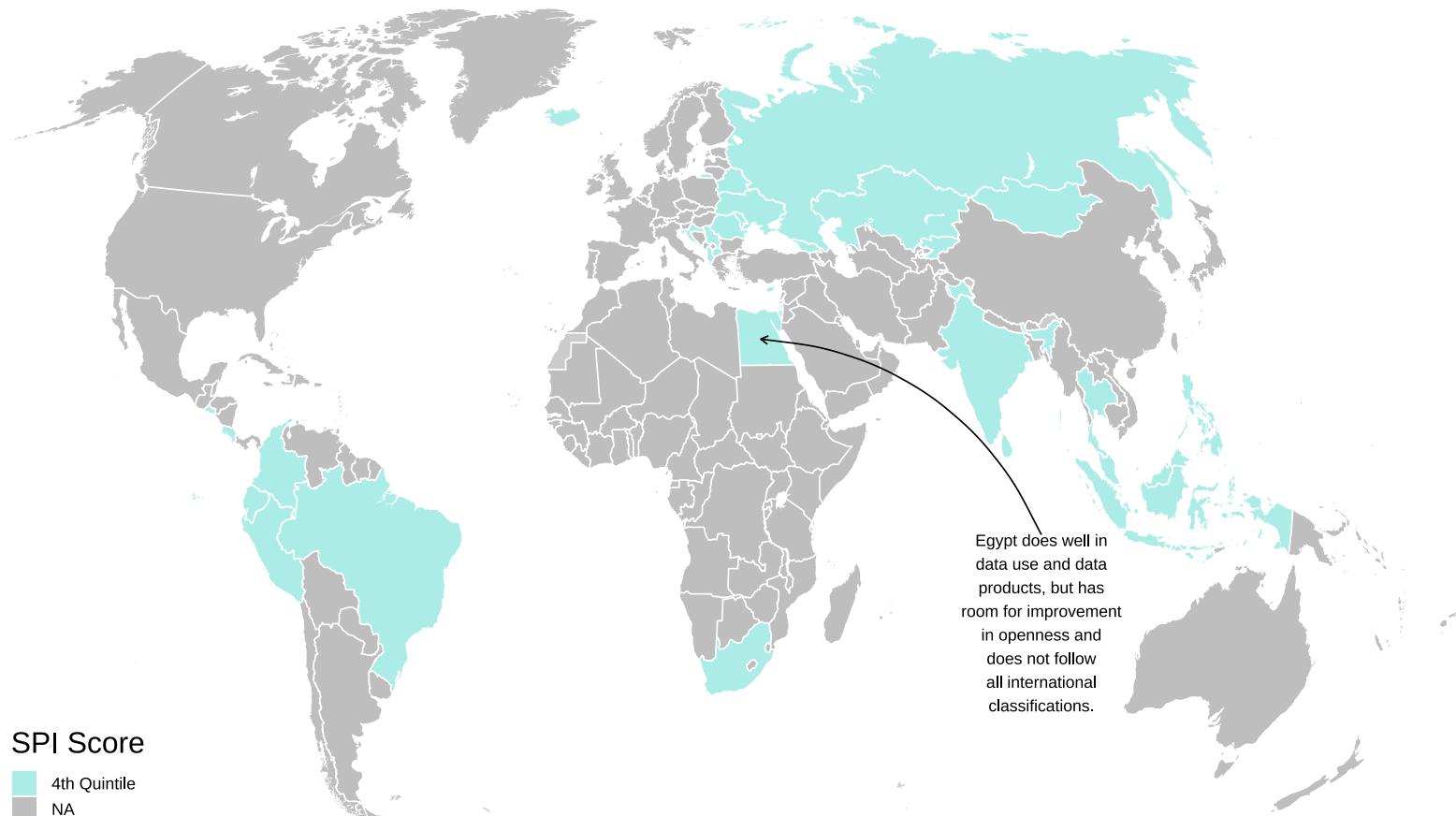
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Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators

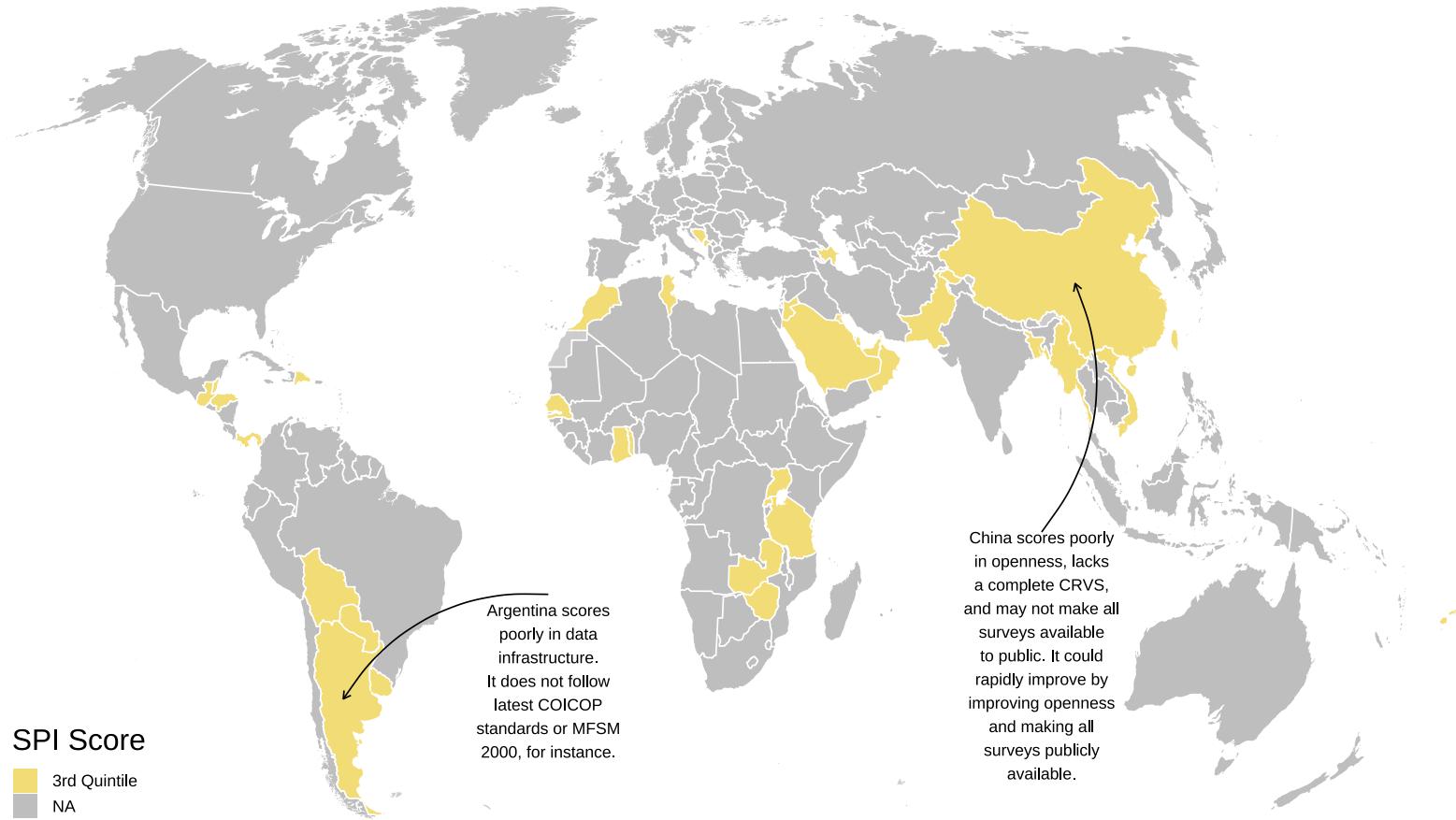
Countries in next quintile have many strengths but may lack in certain areas.
Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators

Countries in the middle 20% may have multiple areas to improve or significant room for improvement in certain areas.

Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators

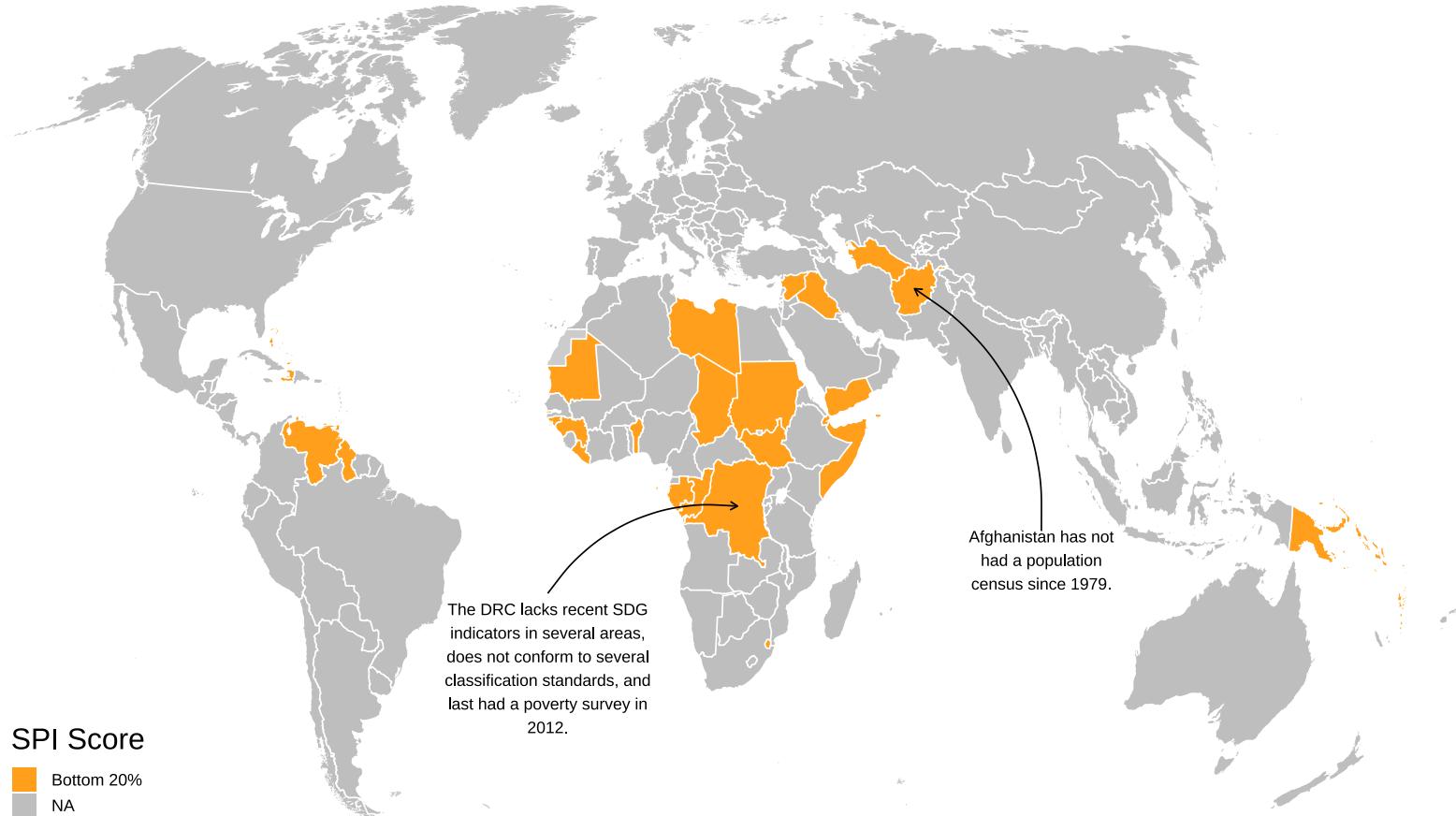
Countries in the 2nd quintile struggle in multiple areas typically.

Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators

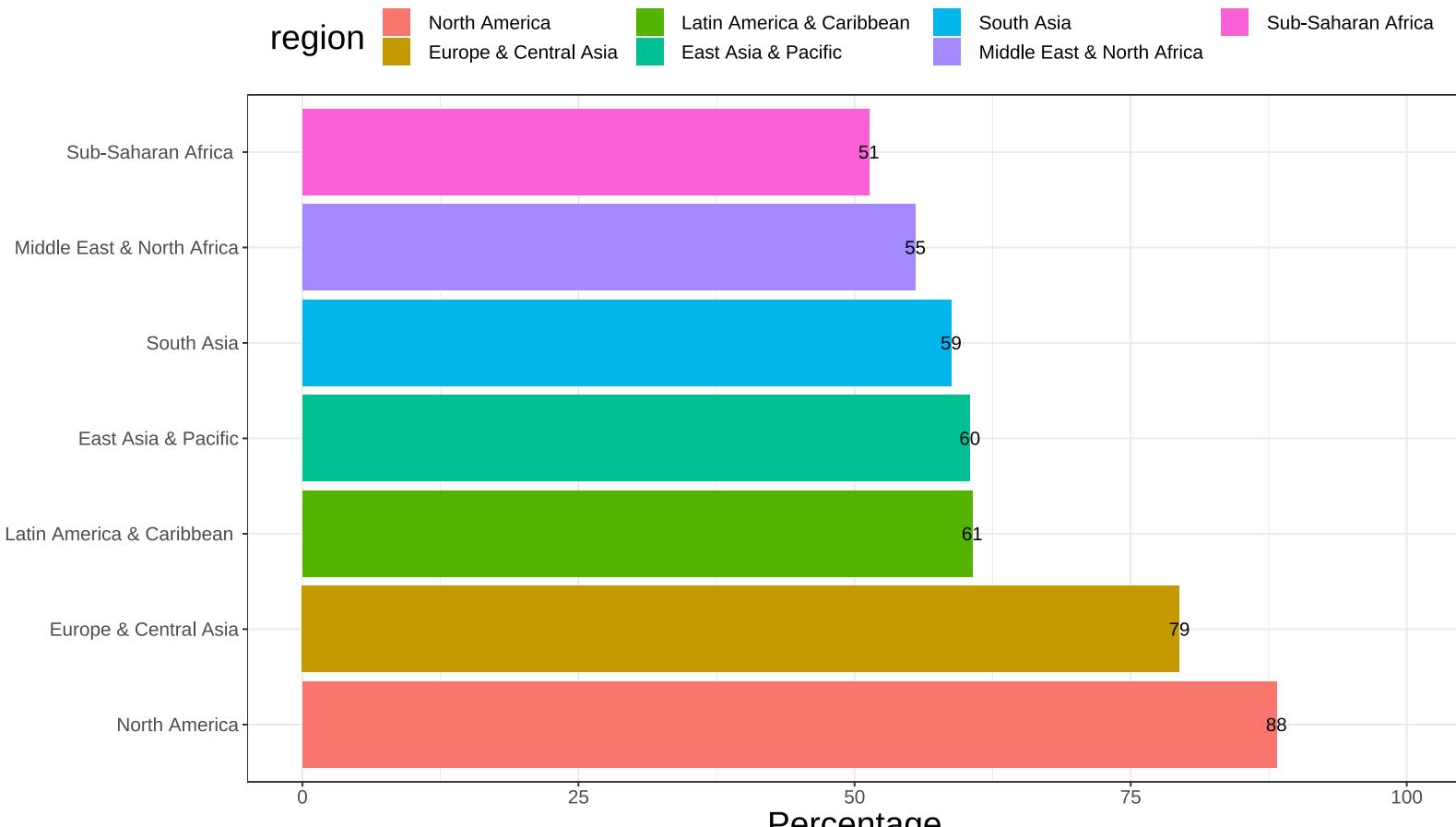
Bottom 20% have many elements missing, and contains many FCS countries.
Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators

SPI Overall Scores - By Region

Data Point is for last year available (2019)



Source: SPI Indicators Raw Data

SPI Overall Scores vary significantly within regions.

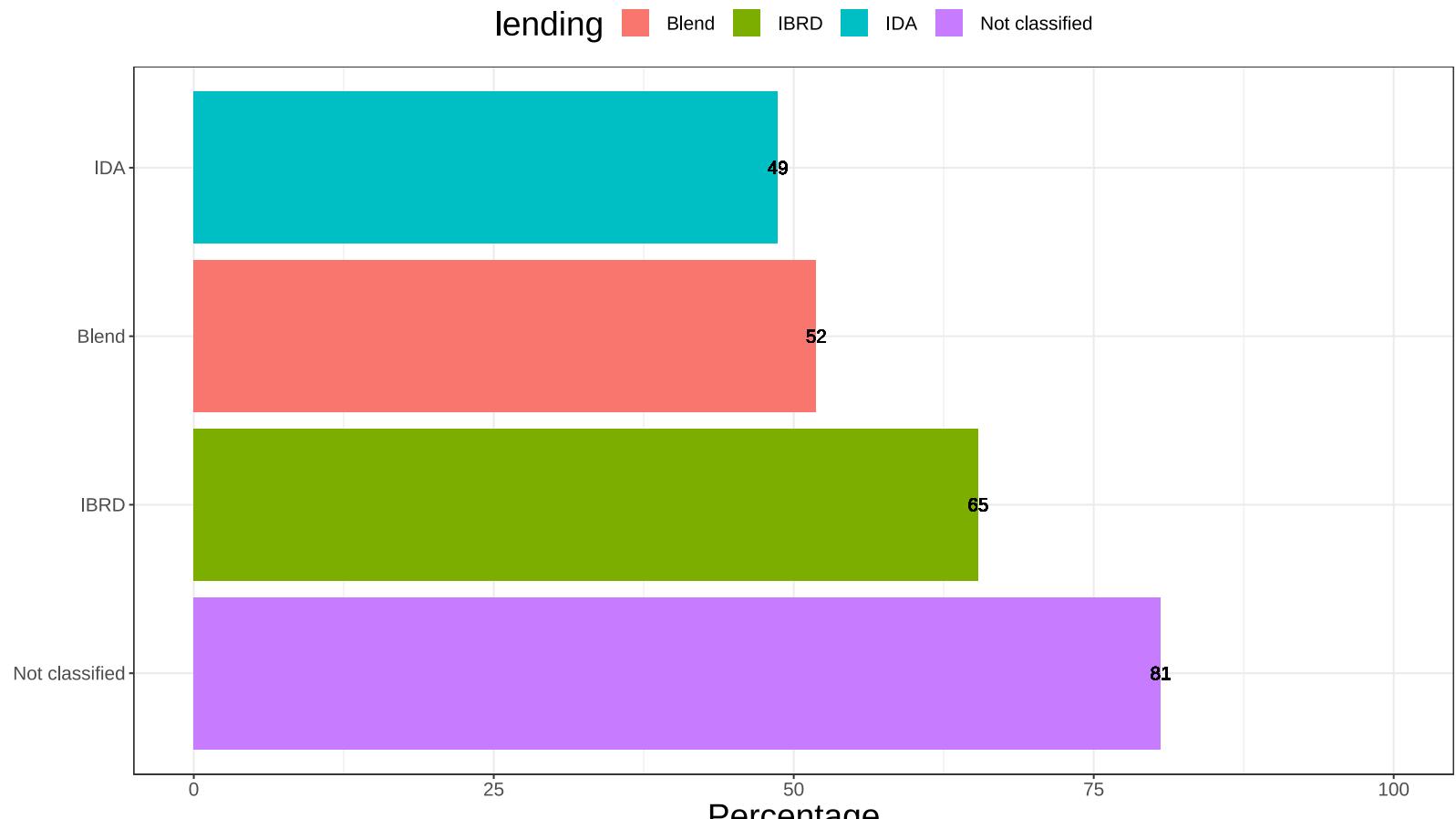
Statistical Performance Indicators - Overall Scores - 2019



Source: SPI Indicators Raw Data

Statistical Performance Indicators - Overall Scores - By Lending Status

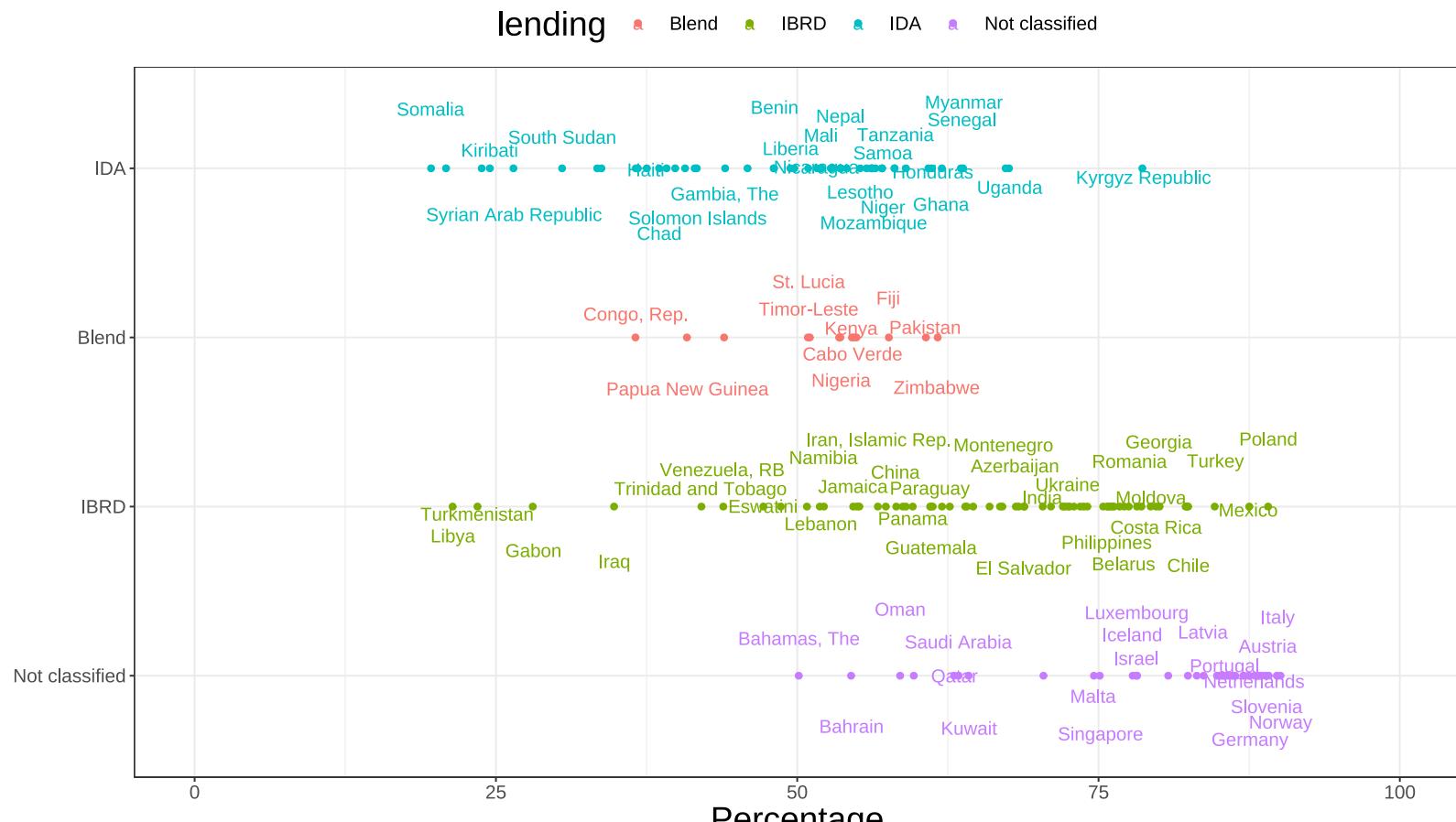
Data Point is for last year available (2019)



Source: SPI Indicators Raw Data

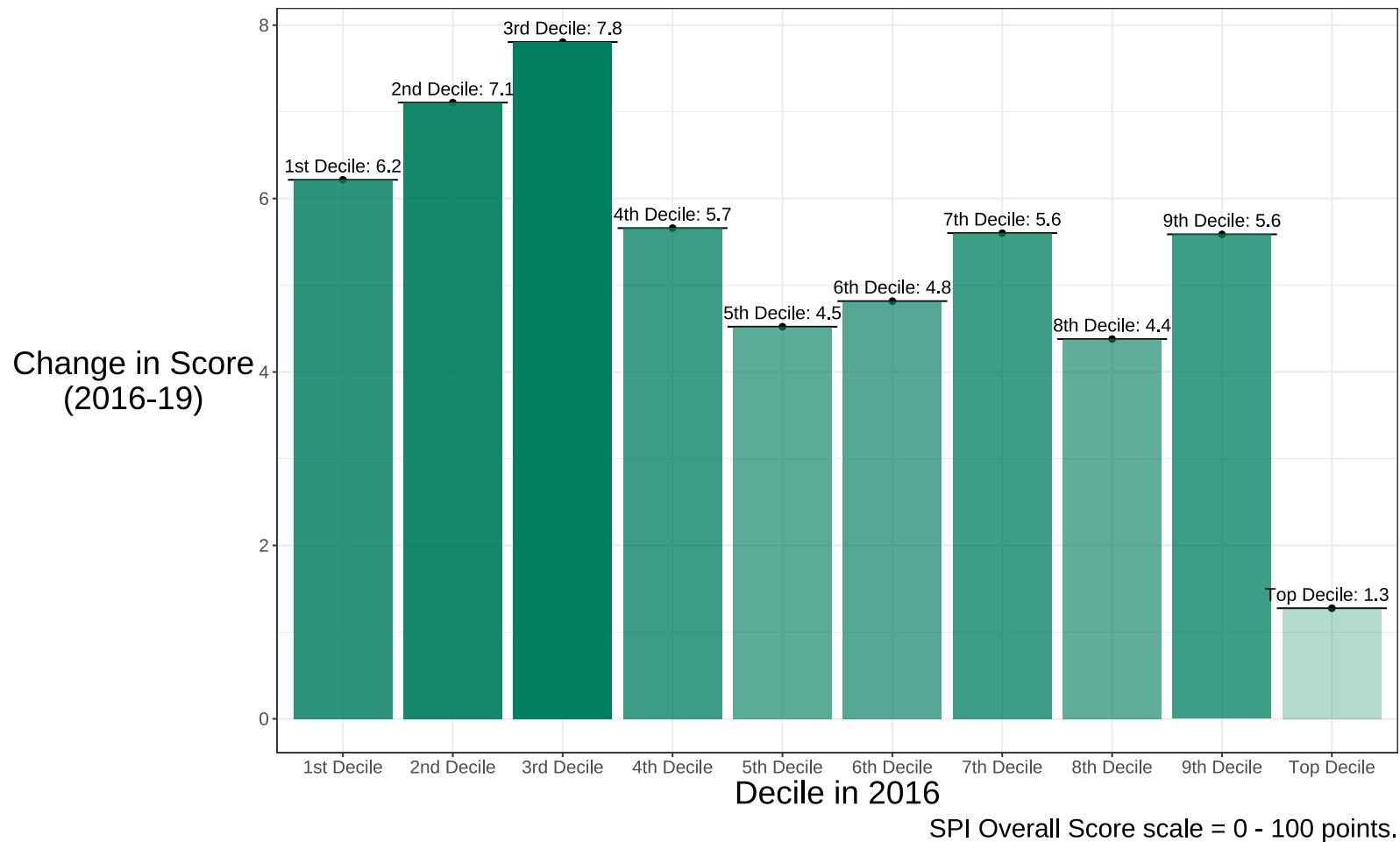
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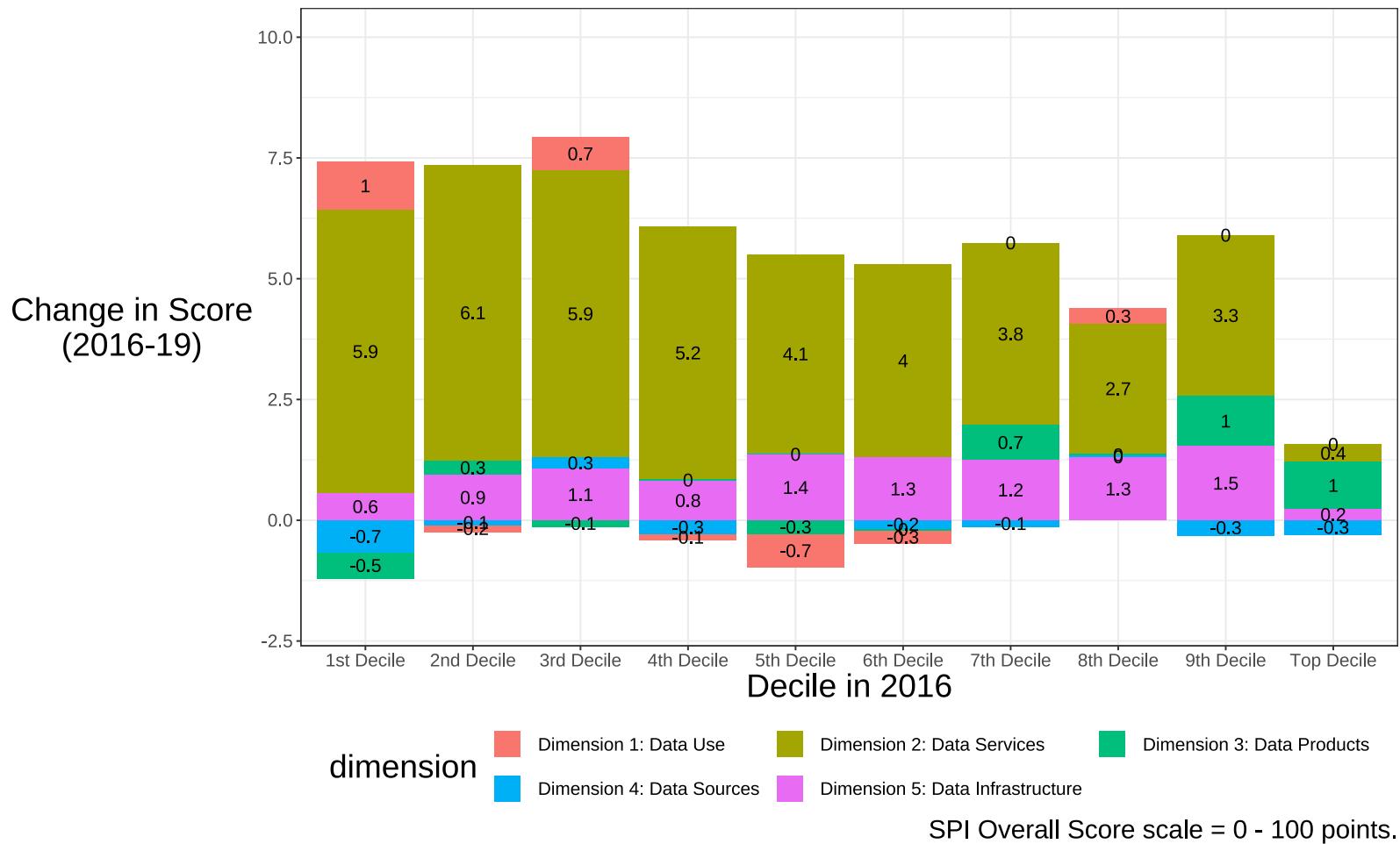


Source: SPI Indicators Raw Data

**2nd & 3rd deciles have improved most since 2016.
Change in SPI Overall Score from 2016-19 by 2016 decile group**

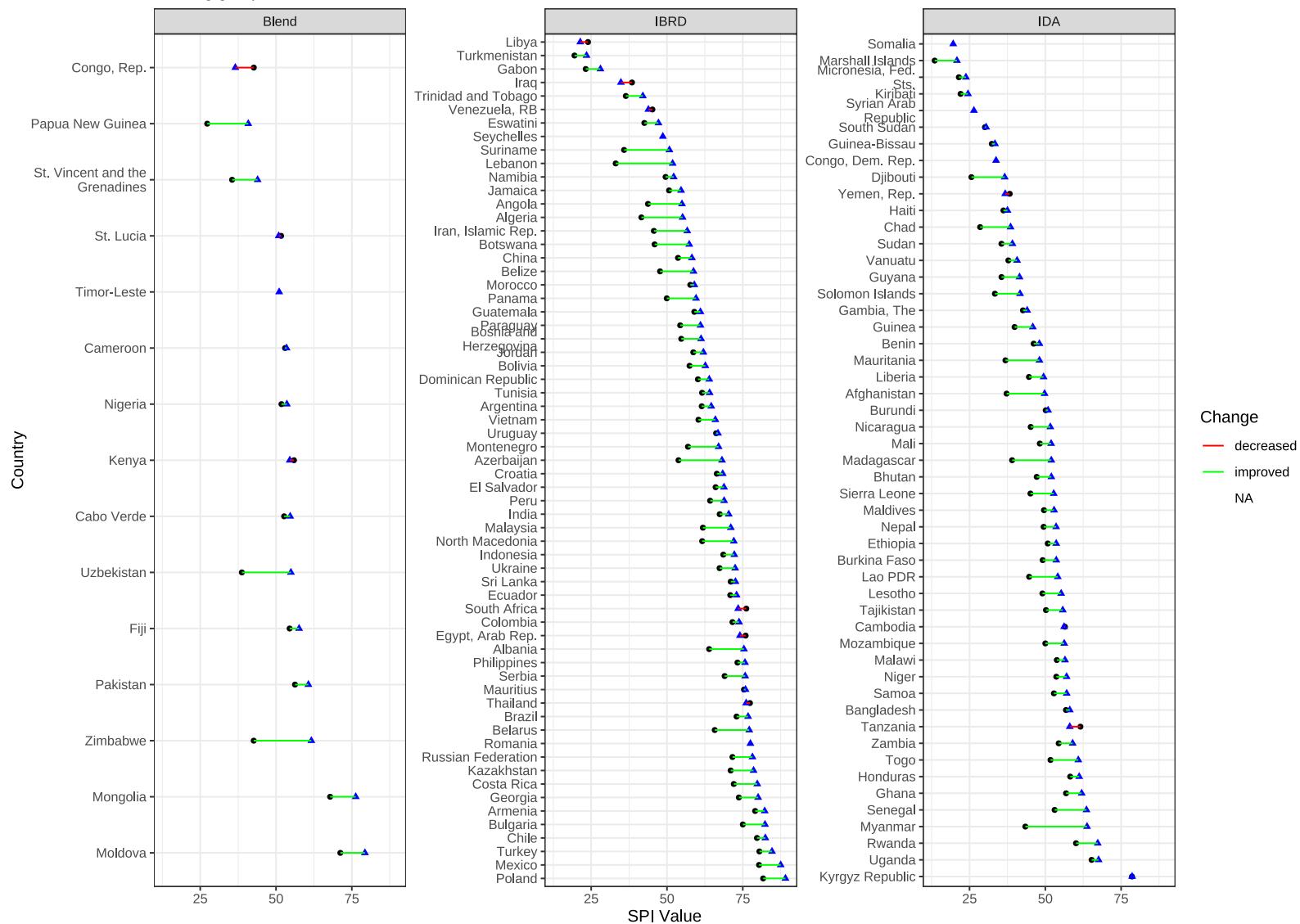


Countries in 2nd and 3rd deciles have grown most since 2016.
 Change in SPI Overall Score from 2016-19 by 2016 decile group



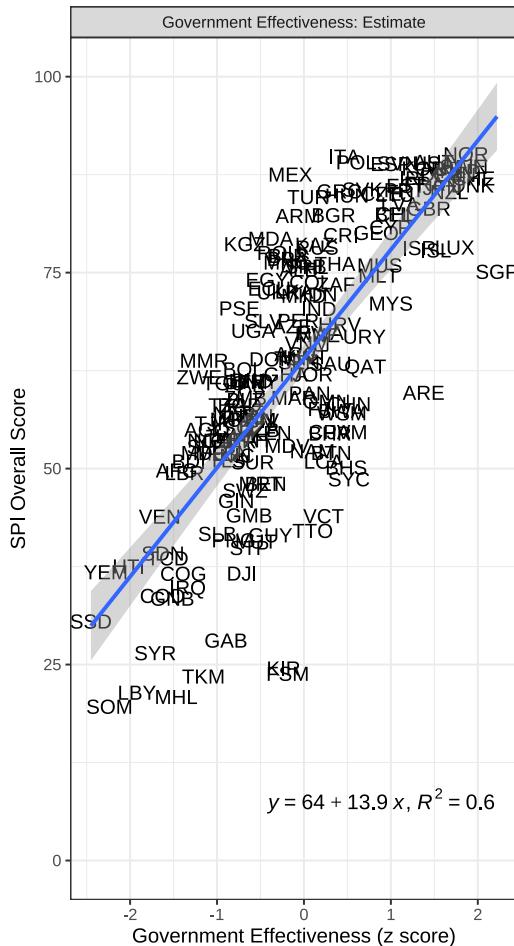
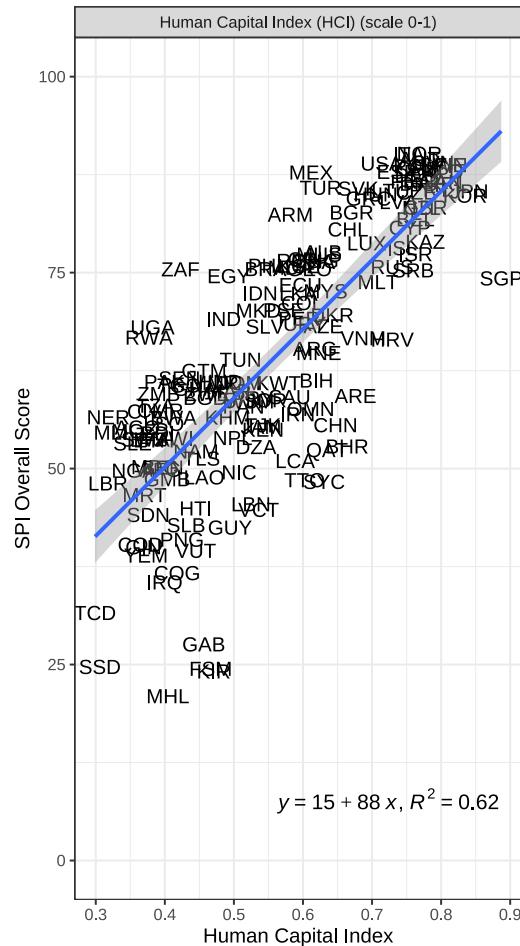
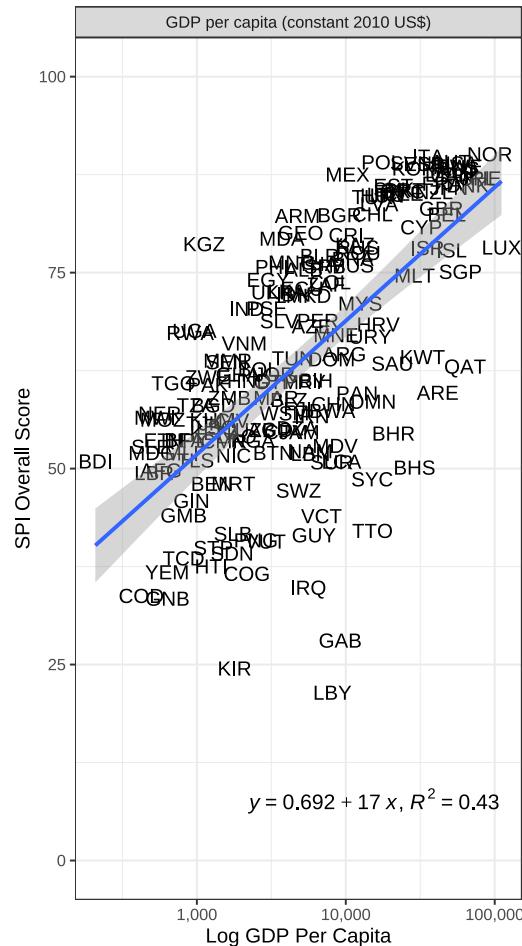
Change in SPI Overall Score from 2016 to 2019 by Lending Type

Lending group based on 2019 classification



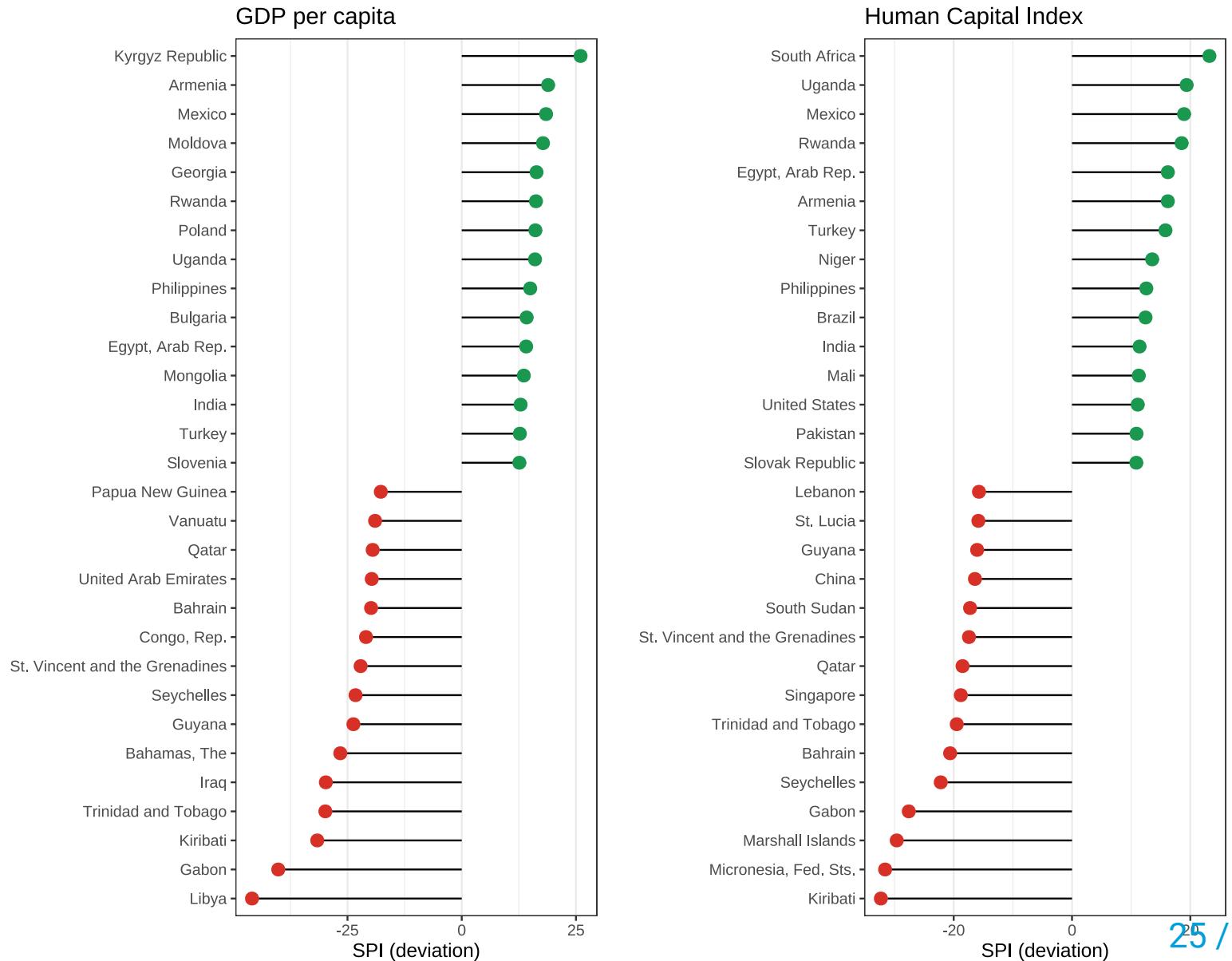
SPI Overall Scores strongly related to GDP per capita, Human Capital Index, and Government Effectiveness Index.

Plot of SPI Index on GDP per capita, Human Capital Index, and Government Effectiveness Index



Source: All indicators come from the World Bank.

Top 15 Over/Under-Performers on SPI Index Compared to GDP per capita and Human Capital Index



Conclusions

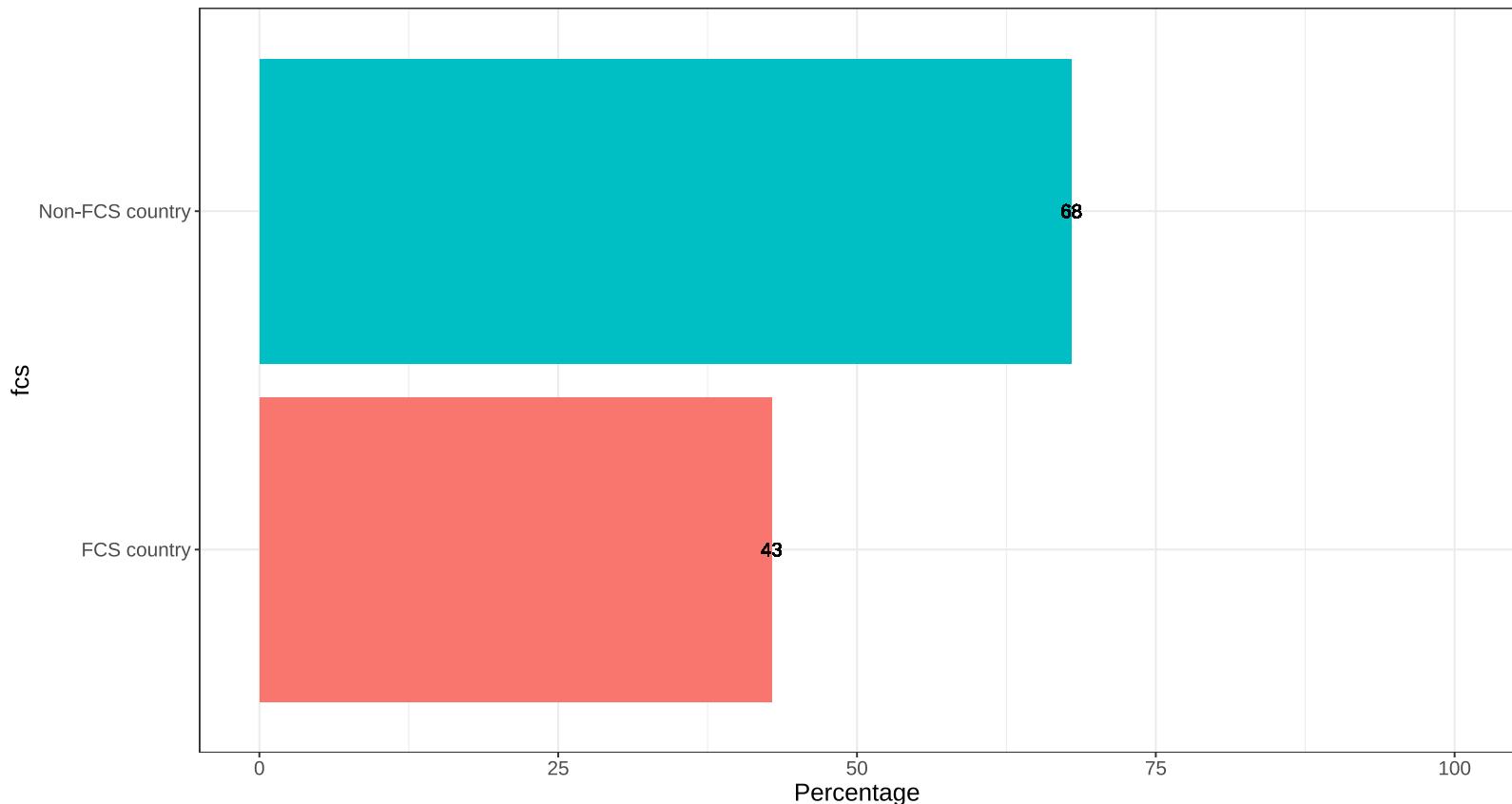
- Statistical Performance Indicators will be released along with the new World Development Report
- Meant to aid in country engagement around statistical capacity
- All countries have room for improvement, including high income countries
- Framework is meant to be comprehensive & flexible enough to allow customization.

Supplementary Charts and Figures

Statistical Performance Indicators - Overall Scores - By Fragile and Conflict-affected Situations (FCS)

Data Point is for last year available (2019)

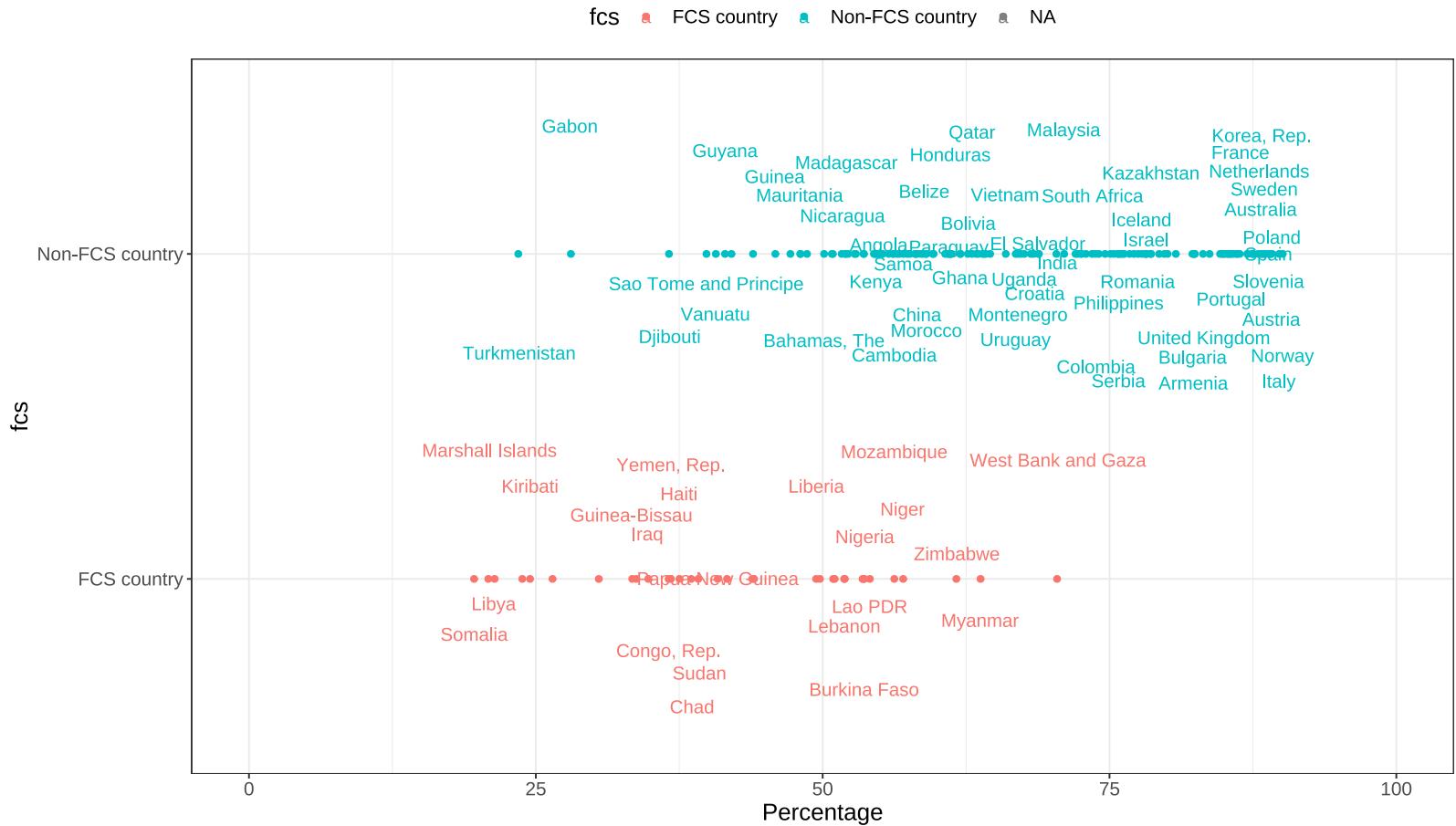
fcs FCS country Non-FCS country NA



Source: SPI Indicators Raw Data

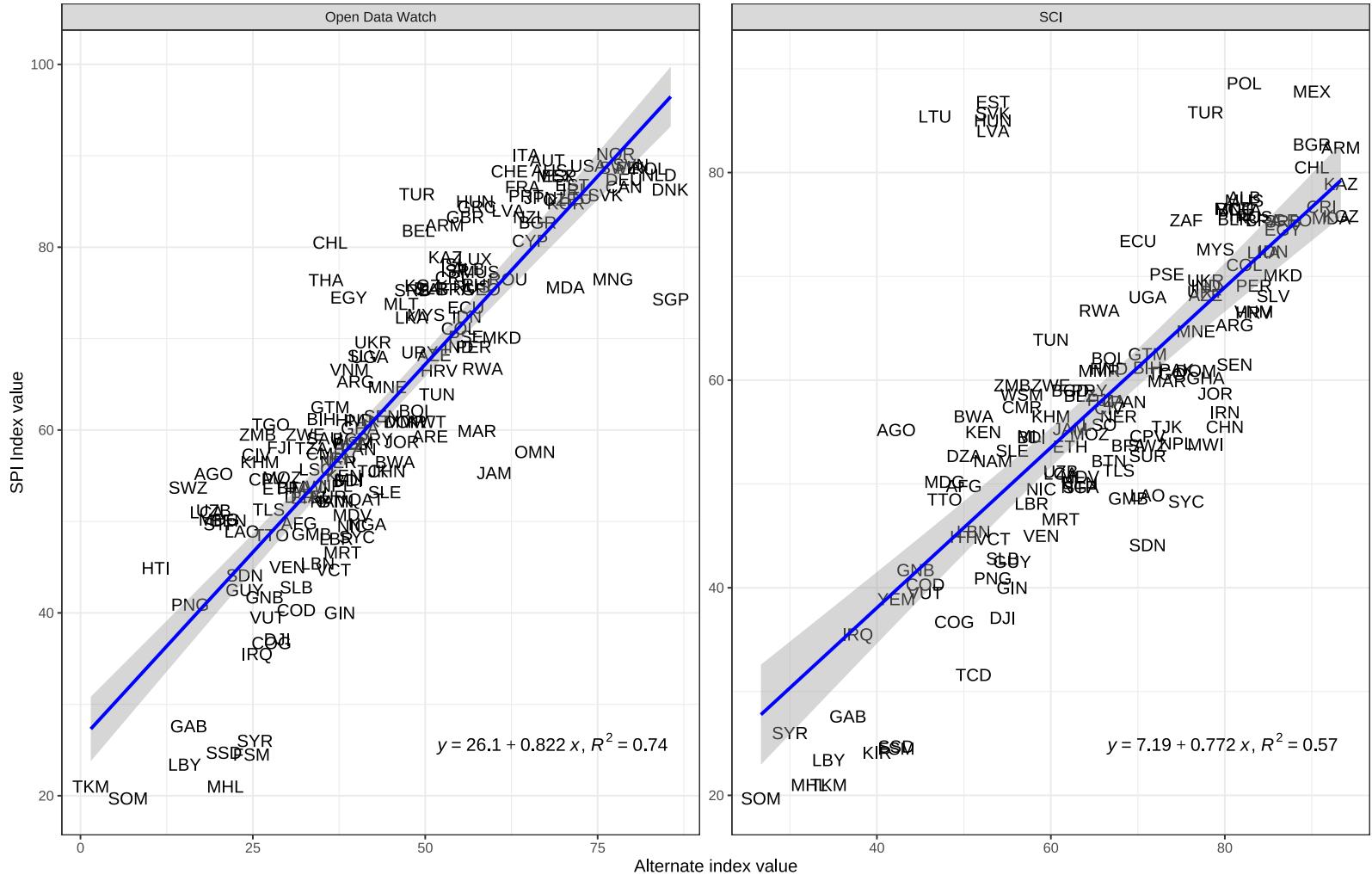
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Source: SPI Indicators Raw Data

Scatterplot of SPI Index on Open Data Watch Index & SCI



Extra Slides

Data Use (5 Pillars)

- Pillar 1.1: Data use by national legislature:
 - *Not included because of lack of established methodology*
- Pillar 1.2: Data use by national executive branch:
 - *Researching method on use of statistics in Voluntary National Review documents*
- Pillar 1.3: Data use by civil society:
 - *Not included because of lack of established methodology*
- Pillar 1.4: Data use by academia:
 - *Not included because of lack of established methodology*
- **Pillar 1.5: Data use by international organizations:**
 - *Reliability/Usefulness of Poverty, Child Mortality, Debt Statistics, safely managed water, labor force data for international agencies using metadata*

Data Services (4 Pillars)

- **Pillar 2.1: Data Releases:**
 - *SDDS/e-GDDS subscription*
- **Pillar 2.2: Online access:**
 - *ODIN Open Data Openness score*
- Pillar 2.3: Advisory/ Analytical Services:
 - *Not included because of lack of established methodology*
- **Pillar 2.4: Data services:**
 - *NADA metadata available*

Data Products (4 Pillars)

For these pillars, we pull values from the UN SDG database, calculate the share of SDG indicators with a country produced value per country

- **Pillar 3.1: Social Statistics:**
 - *Average score for Goal 1-6 indicators*
- **Pillar 3.2: Economic Statistics:**
 - *Average score for Goal 7-12 indicators*
- **Pillar 3.3: Environmental Statistics:**
 - *Average score for Goal 13-15 indicators*
- **Pillar 3.4: Institutional Statistics:**
 - *Average score for Goal 16-17 indicators*

Data Sources (4 Pillars)

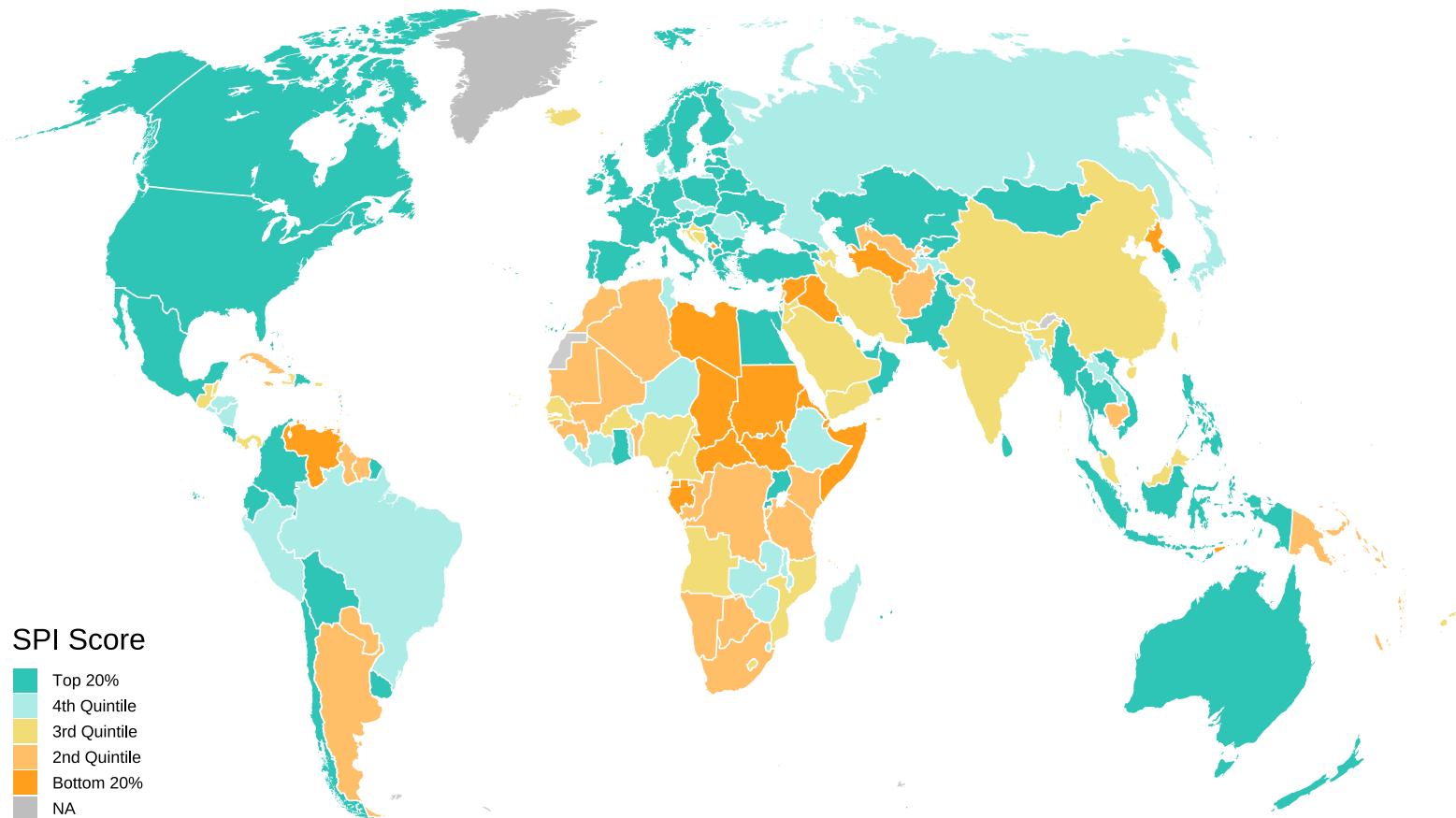
- **Pillar 4.1: Censuses and Surveys:**
 - *Average score of 8 Census and Survey Indicators*
- **Pillar 4.2: Administrative Data:**
 - *Complete CRVS, availability of SPL admin data (ASPIRE), Education admin data (UNESCO), Labor admin data (ILO)*
- **Pillar 4.3: Geospatial Data:**
 - *Geospatial data available at 1st Admin Level according to ODIN*
- Pillar 4.4: Private/citizen generated data:
 - *Not included because of lack of established methodology*

Data Infrastructure (5 Pillars)

- Pillar 5.1: Legislation and Governance:
 - *SDG 17.18.2 - National Statistical Legislation complies with UN Fundamental Principles of Statistics (PARIS21)*
- **Pillar 5.2: Standards and Methods:**
 - *Average score for 10 Standards and Methods indicators sourced mostly from IMF*
- Pillar 5.3: Skills:
 - *Considering PARIS21 measure of statistical literacy*
- Pillar 5.4: Partnerships:
 - *Not included because of lack of established methodology*
- Pillar 5.5: Finance:
 - *SDG 17.18.3 - Statistical Plan fully funded (PARIS21)*

Statistical Performance Indicators - SPI Dimension 1: Data Use

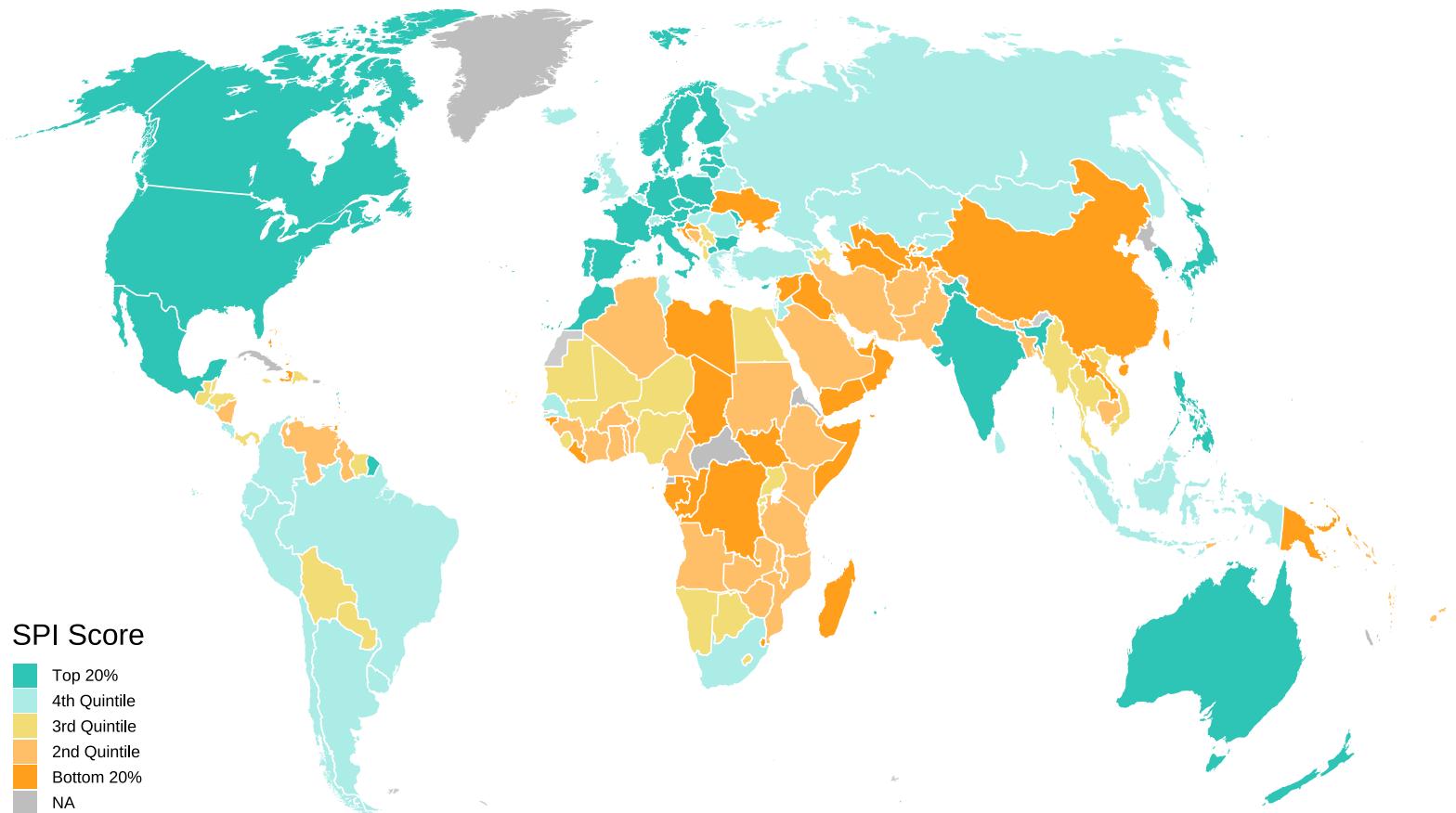
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Source: World Bank. Statistical Performance Indicators

Statistical Performance Indicators - SPI Dimension 2: Data Services

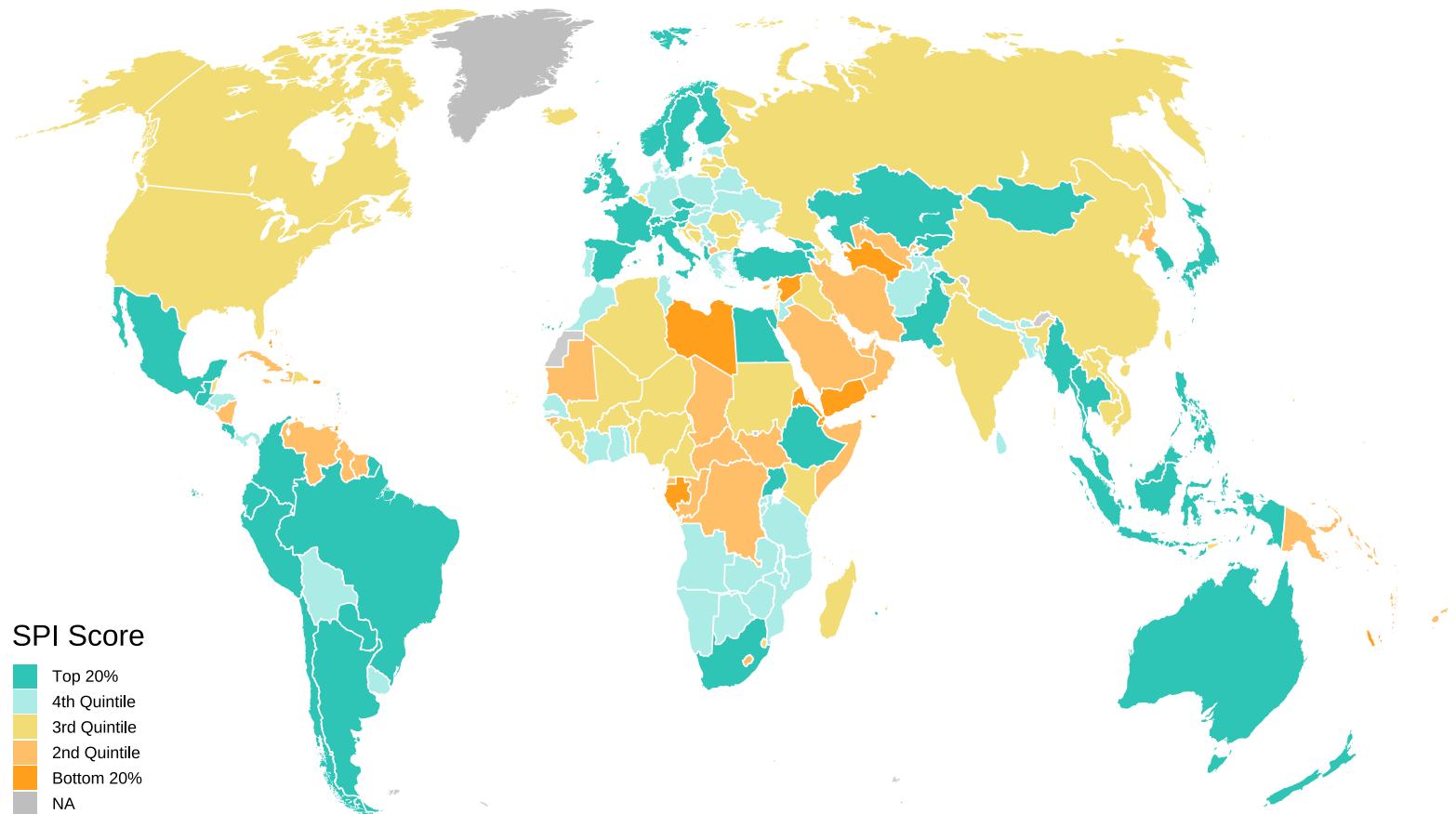
Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators

Statistical Performance Indicators - SPI Dimension 3: Data Products

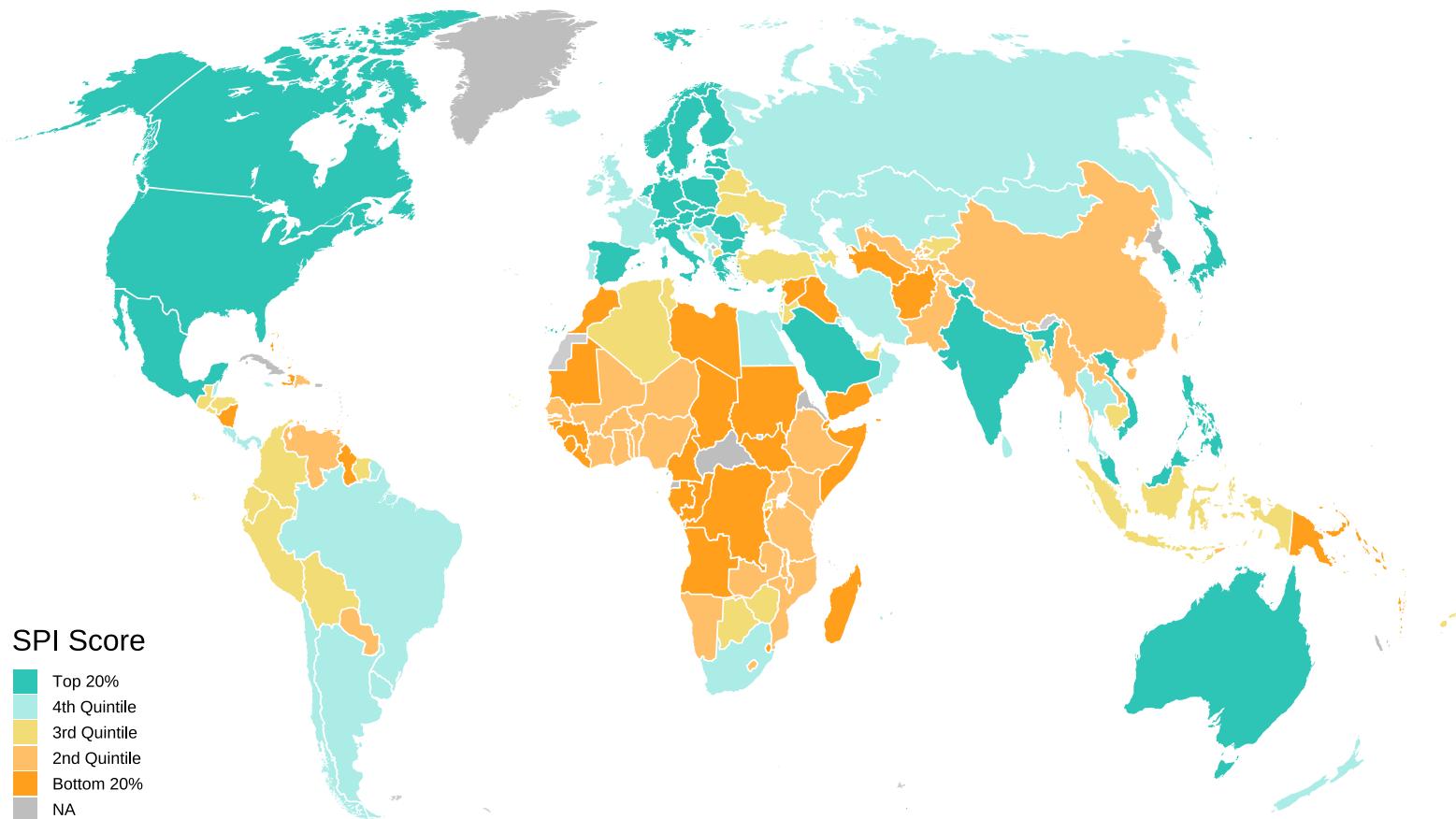
Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators

Statistical Performance Indicators - SPI Dimension 4: Data Sources

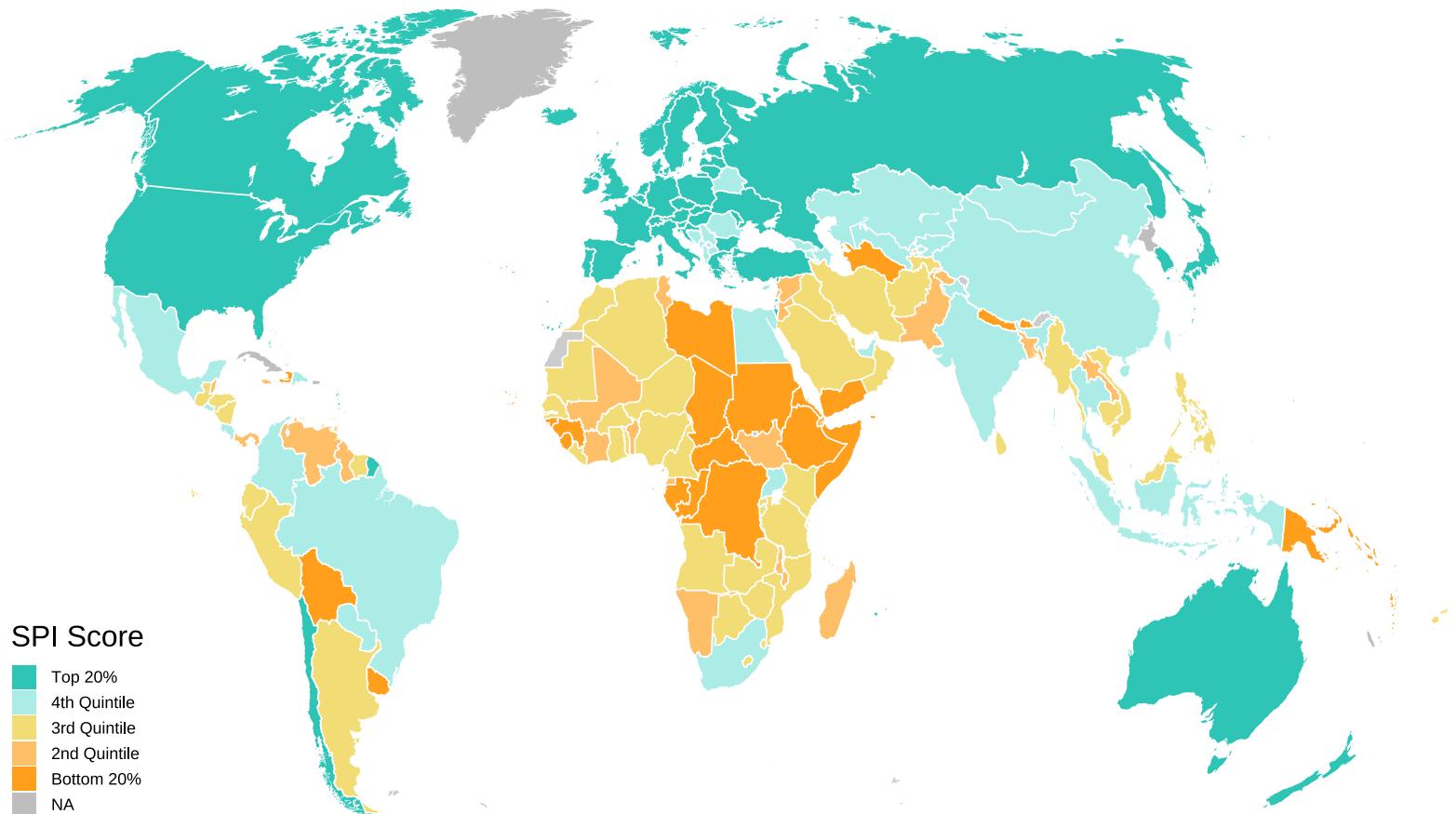
Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators

Statistical Performance Indicators - SPI Dimension 5: Data Infrastructure

Statistical Performance Indicators - Overall Scores - 2019



Source: World Bank. Statistical Performance Indicators