

# DATA SCIENCE: PYTHON

Professor: Chase Kusterer



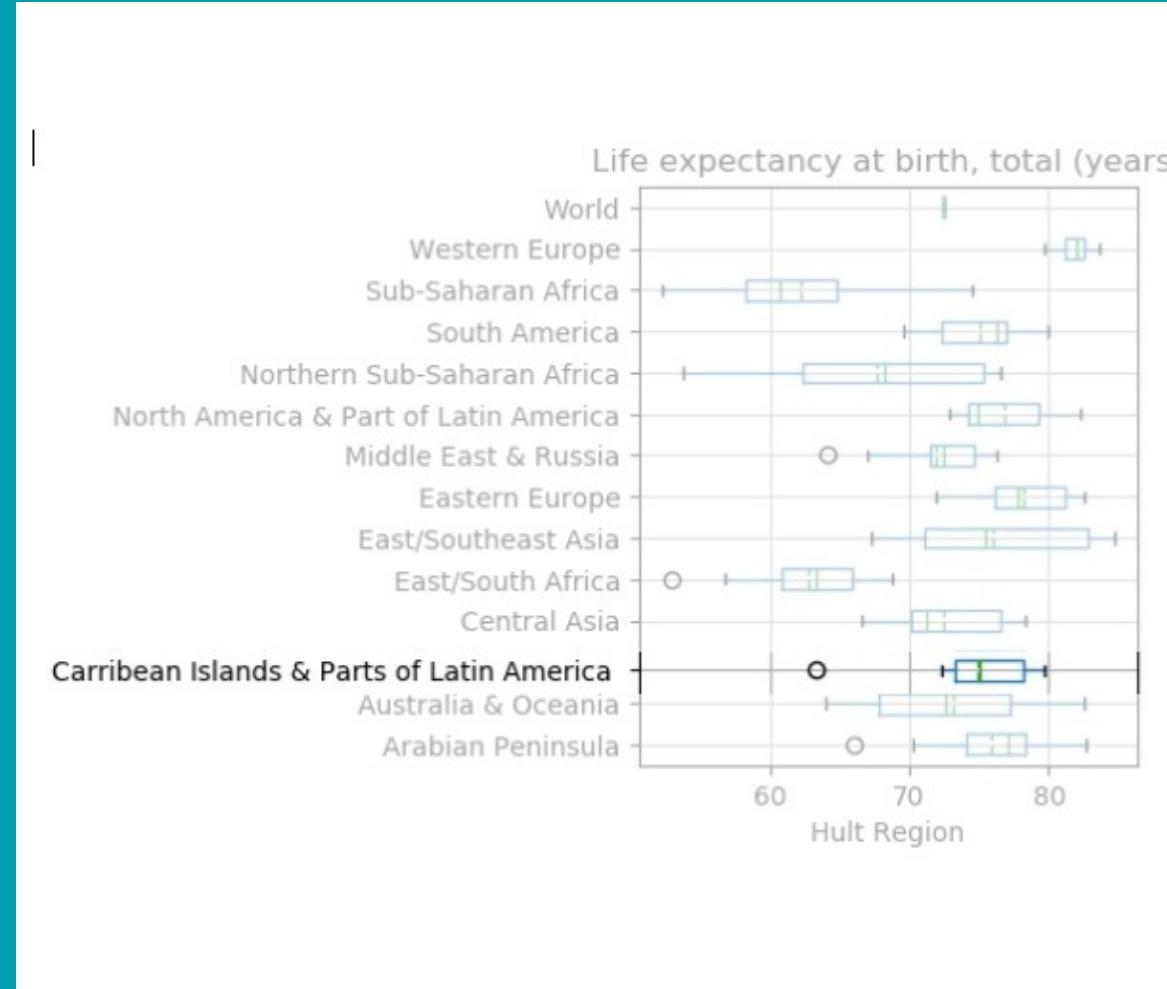


# CARIBBEAN ISLANDS

# INTRODUCTION



# COMPARISONS TO THE WORLD



# MISSING VALUES - WHY?

6	Antigua & Barbuda	31
9	Aruba	36
13	Bahamas, The	25
16	Barbados	27
27	British Virgin Is.	50
36	Cayman Islands	43
48	Cuba	23
54	Dominica	43
55	Dominican Republic	22
78	Grenada	31
84	Haiti	26
97	Jamaica	21
158	Puerto Rico	18
163	Saint Kitts & Nevis	43
164	Saint Lucia	27
165	Saint Vincent and the Grenadines	25
195	Trinidad & Tobago	24
199	Turks & Caicos Is	46
211	Virgin Islands	33

- EDUCATION ATTAINMENT
- INCOME DISPERSEMENT
- PROFESSIONAL HEALTH STAFF
- GINI INDEX

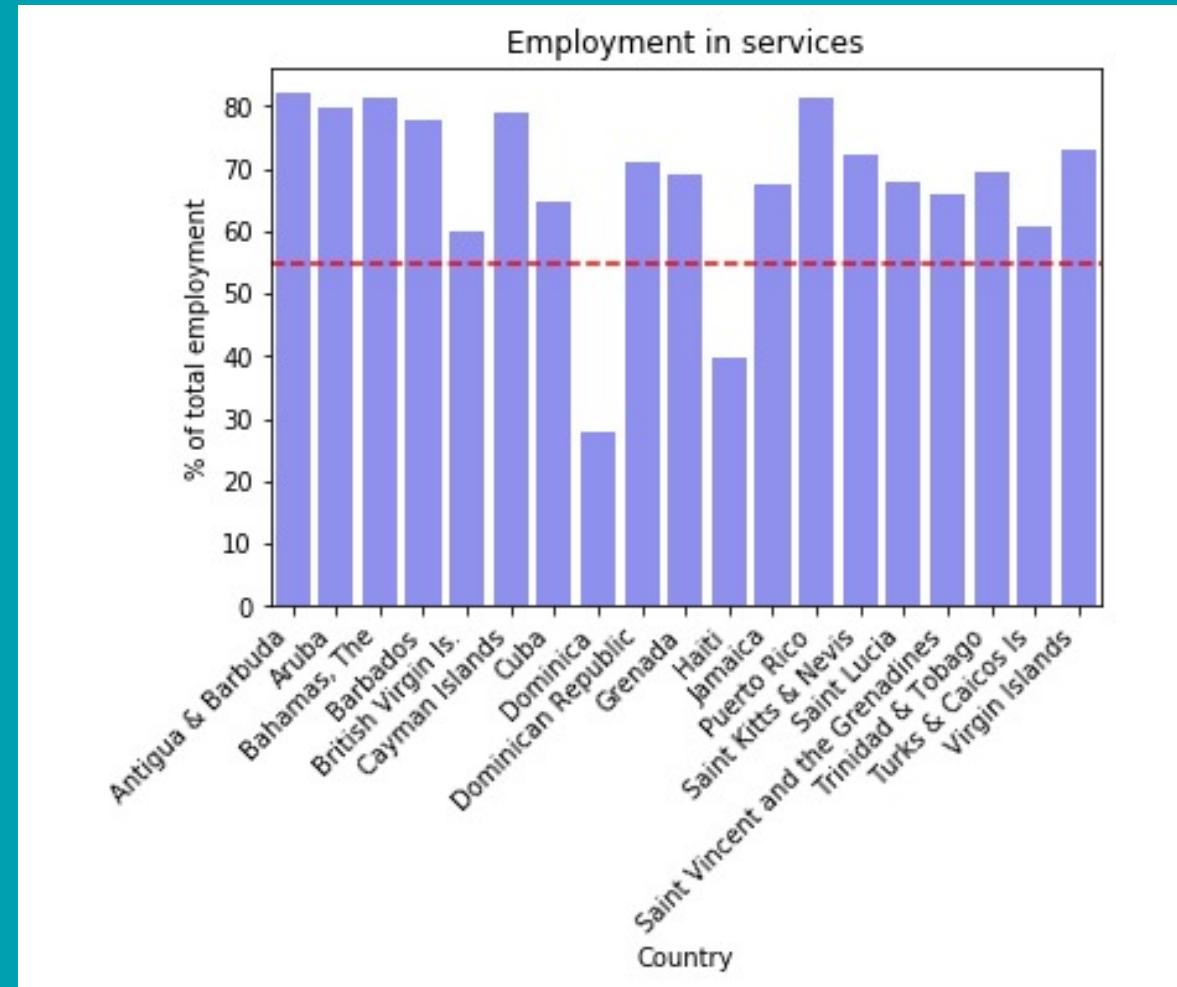
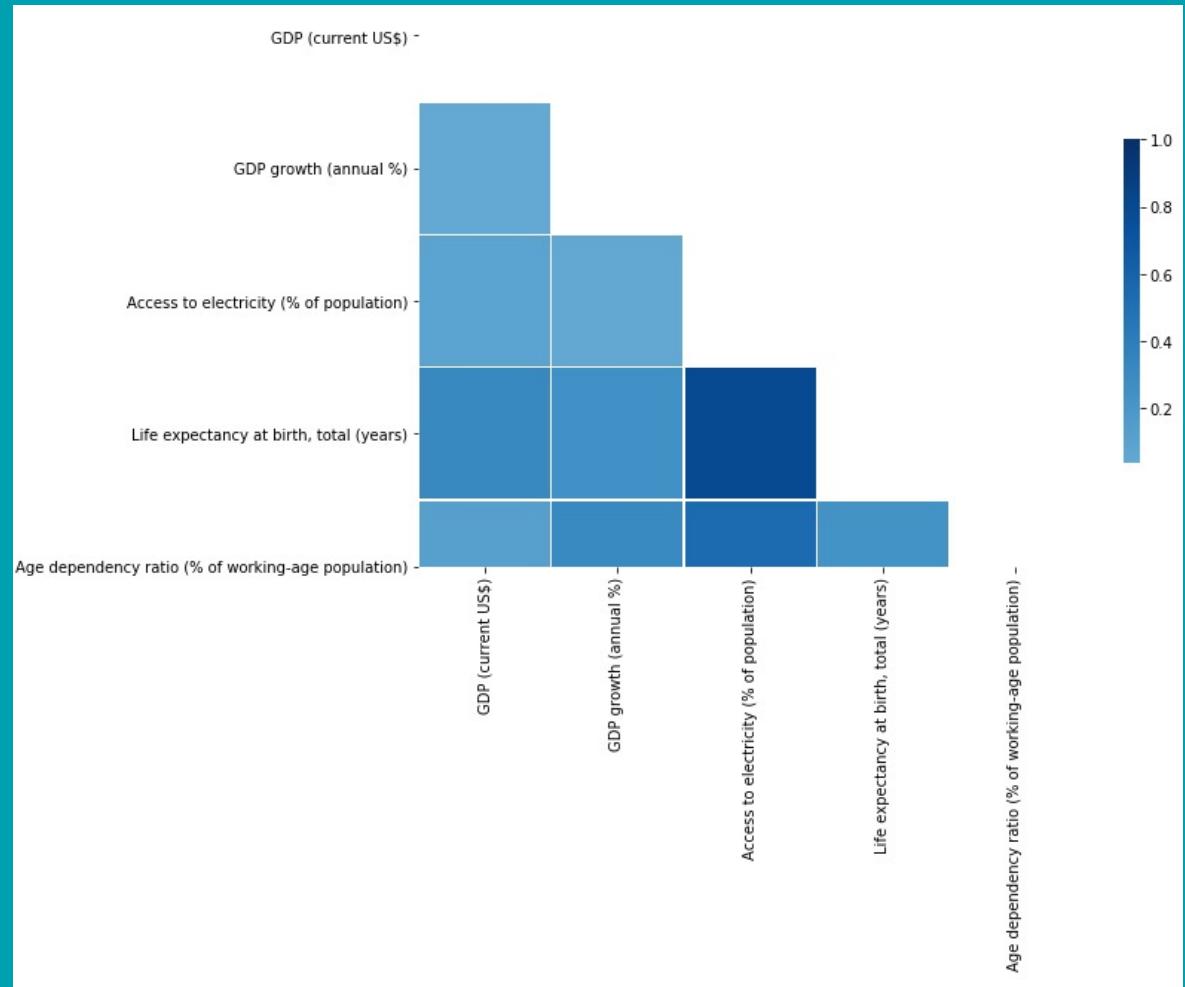
# IMPUTING VALUES:

First imputed data using other sources.

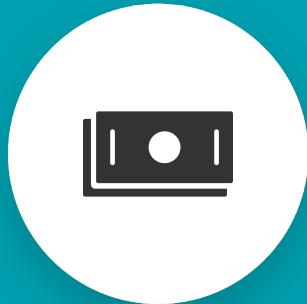
Columns that had 5 or fewer values we imputed them using MEDIAN.

VARIABLES	NO. OF MISSING VALUES
Adolescent fertility rate (births per 1,000 women ages 15-19)	5
Birth rate, crude (per 1,000 people)	5
Industry (including construction), value added (% of GDP)	2
Merchandise trade (% of GDP)	5
Mobile cellular subscriptions (per 100 people)	3
Tax revenue (% of GDP)	1

# CARIBBEAN REGION COMPARISON

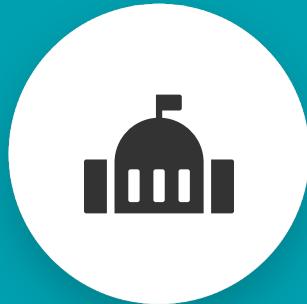


# PERFORMANCE METRICS



## ECONOMIC

- Diversification of GDP Streams
- Moderate Inflation



## POLITICAL

- Ethical central Government
- Foreign Investment Incentives

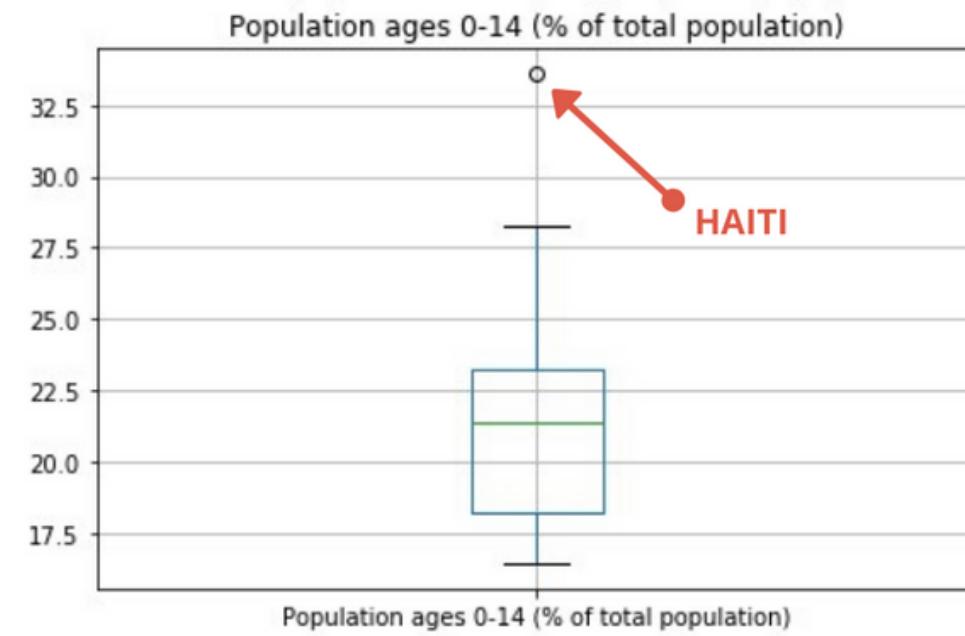
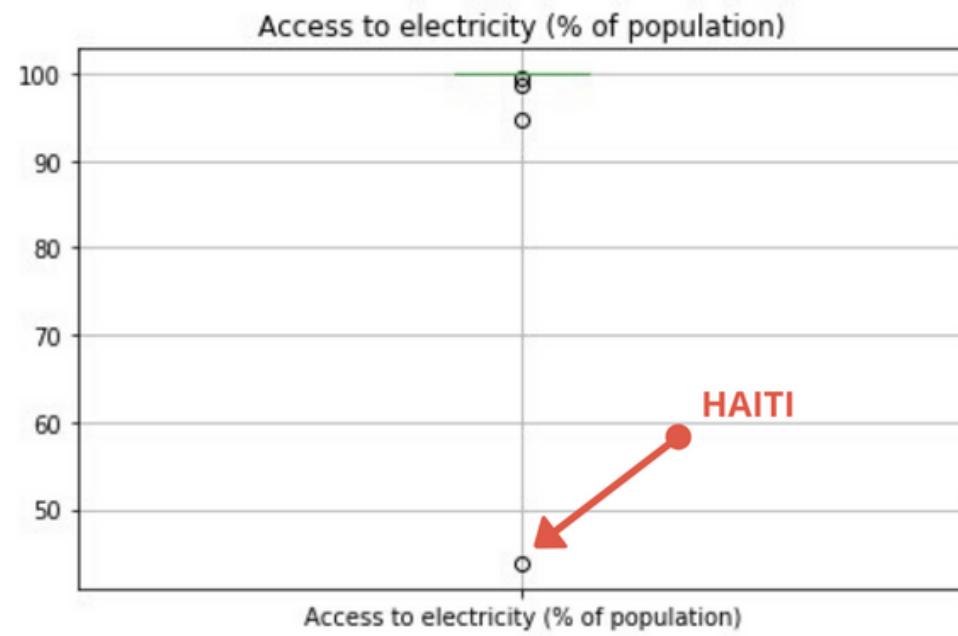


## SOCIAL

- Access to Mobile Devices
- Trained Professional Teachers

# OUTLIER: HAITI





# CRIME IN HAITI



# HAITI



HIGH POVERTY  
RATES



LACK OF JUDICIAL  
OVERSIGHT



NON-EXISTENT  
PROPERTY TITLES



LARGE WEALTH  
DISPARITY



LARGE  
UNEMPLOYMENT  
RATE



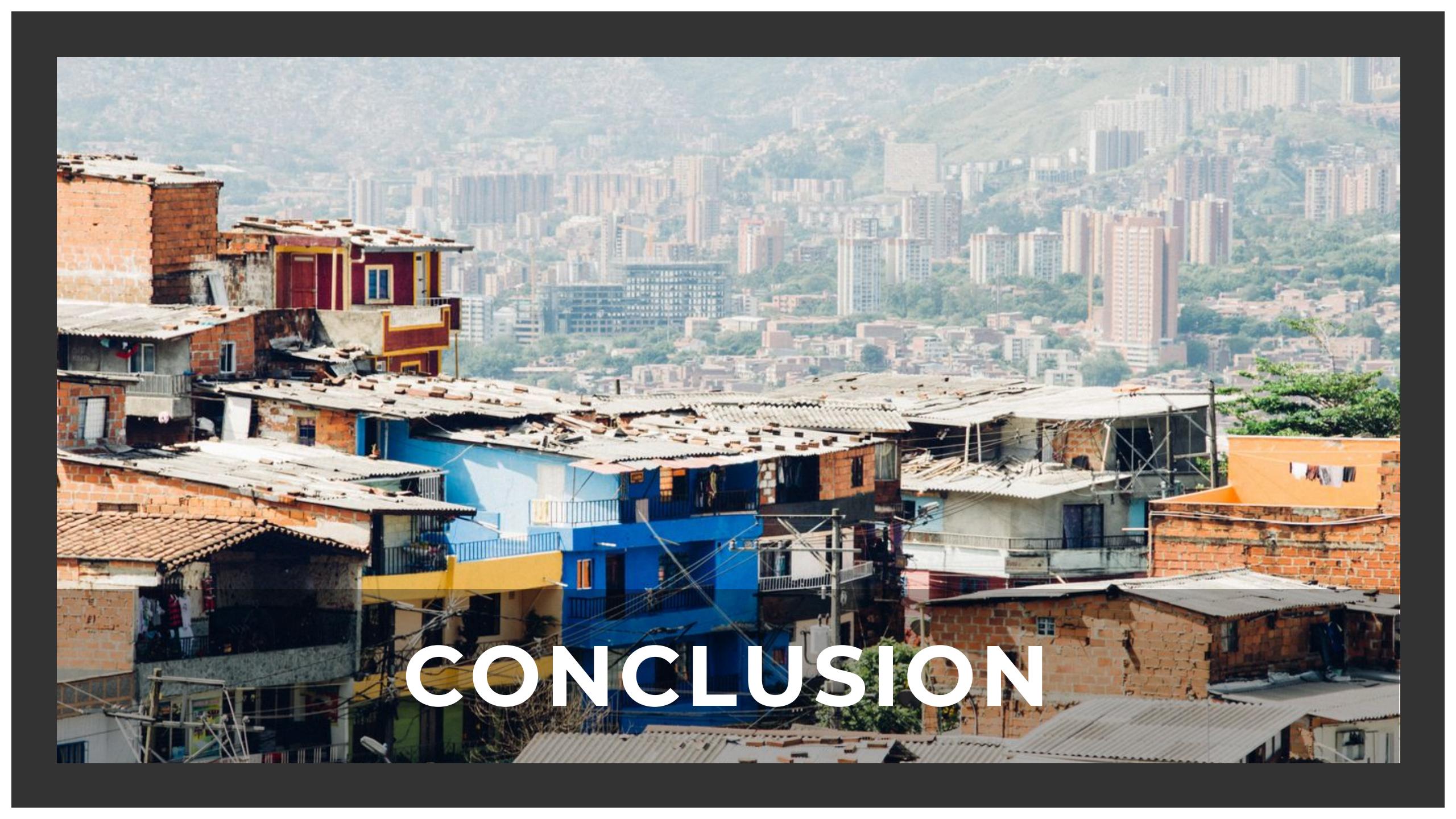
ACCESS TO CLEAN  
WATER



WIDESPREAD  
CORRUPTION



ENERGY ISSUES



# CONCLUSION

# TEAM 10



CHRISTINA  
GEORGE



JOSH  
MCCORMICK



JUNJIE HUANG



ROGER  
NAKAMINE



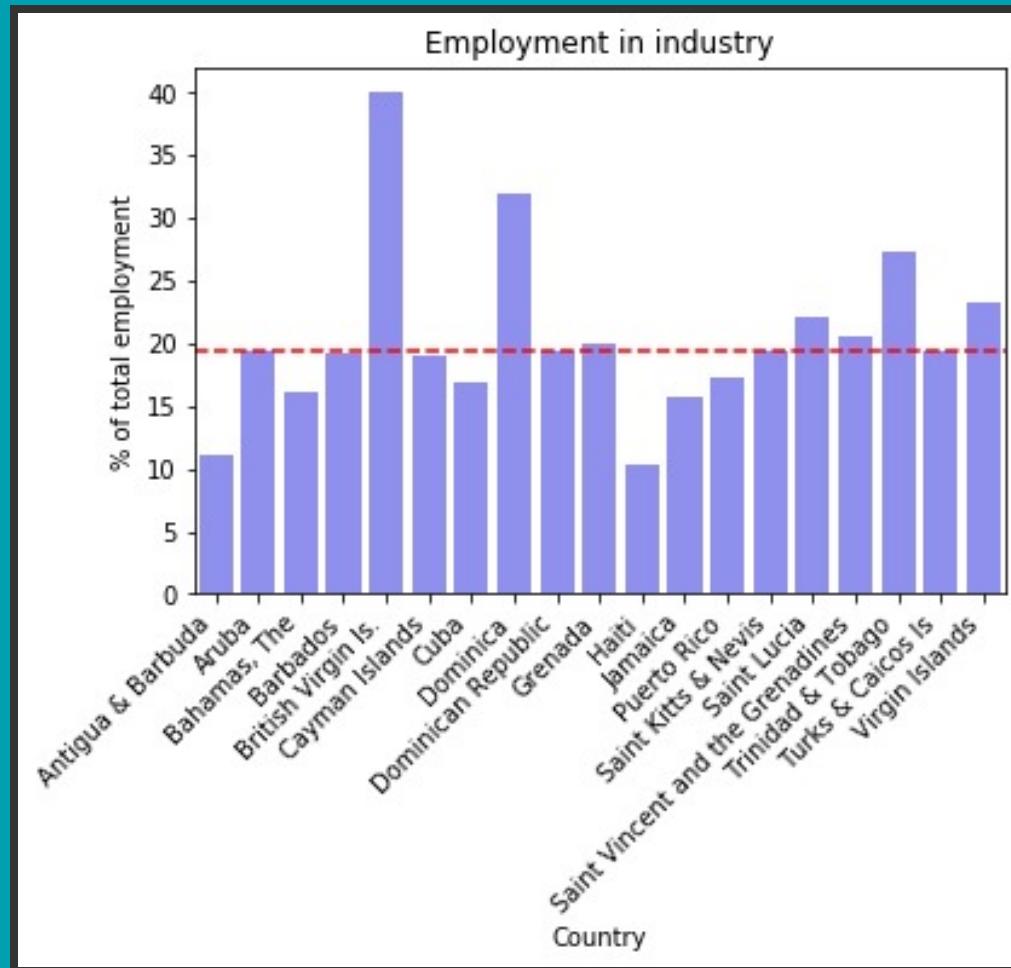
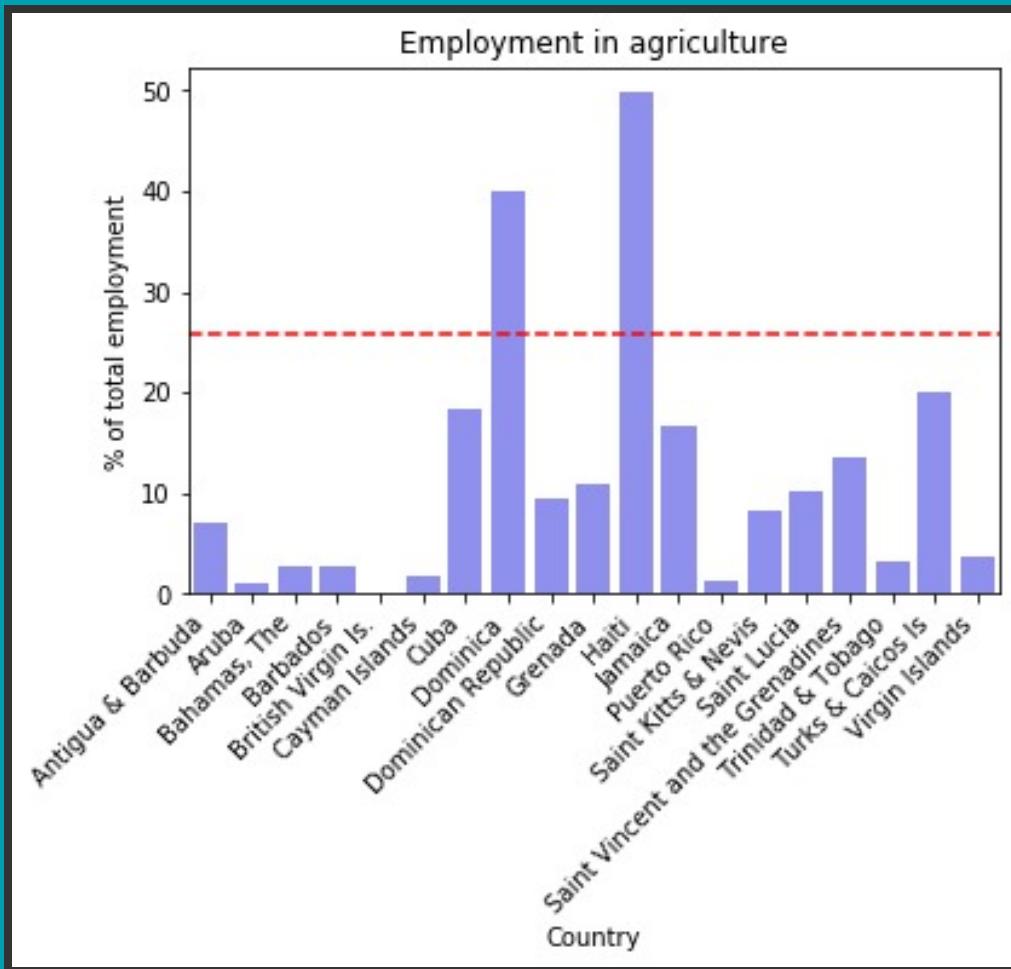
ZANIELLE  
CABRERA-LEE



PRASHANT  
SAMUEL  
KANAKAPUDI



# APPENDIX



# REFERENCE-SOURCES (1)

- 1 [HTTPS://WWW.CARIBBEANANDCO.COM/FACTS-ABOUT-THE-CARIBBEAN-REGION/](https://www.caribbeanandco.com/facts-about-the-caribbean-region/)
- 2 [HTTPS://THENASSAUGUARDIAN.COM/2019/03/22/REPORT-BAHAMAS-HAS-SECOND-HIGHEST-ECONOMIC-AND-SOCIAL-INEQUALITY-IN-CARIBBEAN/](https://thenassau.guardian.com/2019/03/22/report-bahamas-has-second-highest-economic-and-social-inequality-in-caribbean/)
- 3 [HTTPS://WWW.MCKINSEY.COM/FEATURED-INSIGHTS/AMERICAS/UNLOCKING-THE-ECONOMIC-POTENTIAL-OF-CENTRAL-AMERICA-AND-THE-CARIBBEAN](https://www.mckinsey.com/featured-insights/americas/unlocking-the-economic-potential-of-central-america-and-the-caribbean)
- 4 [HTTPS://WWW.HAITILIBRE.COM/EN/NEWS-27358-HAITI-SECURITY-HAITI-A-COUNTRY-OF-TRANSIT-OF-DRUGS-DIXIT-THE-DEPARTMENT-OF-STATE.HTML](https://www.haitilibre.com/en/news-27358-haiti-security-haiti-a-country-of-transit-of-drugs-dixit-the-department-of-state.html)
- 5 [HTTPS://WWW.NYTIMES.COM/2004/05/16/WORLD/DRUG-TRAFFICKERS-FIND-HAITI-A-HOSPITABLE-PORT-OF-CALL.HTML](https://www.nytimes.com/2004/05/16/world/drug-traffickers-find-haiti-a-hospitable-port-of-call.html)
- 6 [HTTPS://WWW.TRAVELWEEKLY.COM/CARIBBEAN-TRAVEL/INSIGHTS/THE-STATS-ON-VISITOR-NUMBERS-TO-THE-CARIBBEAN](https://www.travelweekly.com/caribbean-travel/insights/the-stats-on-visitor-numbers-to-the-caribbean)
- 7 [HTTPS://DATAHELPDESK.WORLDBANK.ORG/KNOWLEDGEBASE/ARTICLES/191133-WHY-ARE-SOME-DATA-NOT-AVAILABLE](https://datahelpdesk.worldbank.org/knowledgebase/articles/191133-why-are-some-data-not-available)
- 8 [HTTPS://WWW.CIA.GOV/LIBRARY/PUBLICATIONS/THE-WORLD-FACTBOOK/GEOS/VI.HTML](https://www.cia.gov/library/publications/the-world-factbook/geos/vi.html)

# REFERENCE-SOURCES (2)

- 1 [HTTPS://WWW.INVESTOPEDIA.COM/ARTICLES/INVESTING/011916/PROFITS-PARADISE-TOP-4-ECONOMIES-CARIBBEAN.ASP](https://www.investopedia.com/articles/investing/011916/profits-paradise-top-4-economies-caribbean.asp)
- 2 [HTTP://CARIBYA.COM/CARIBBEAN/ECONOMY/](http://caribya.com/caribbean/economy/)
- 3 [HTTPS://WWW.CARIBJOURNAL.COM/2015/03/08/12-CHALLENGES-FACING-CARIBBEAN-SMALL-ISLAND-DEVELOPING-STATES/](https://www.caribjournal.com/2015/03/08/12-challenges-facing-caribbean-small-island-developing-states/)
- 4 [HTTPS://EN.UNESCO.ORG/GEM-REPORT/SITES/GEM-REPORT/FILES/157271E.PDF](https://en.unesco.org/gem-report/sites/gem-report/files/157271E.PDF)
- 5 [HTTPS://WWW.HERITAGE.ORG/INDEX/COUNTRY/HAITI](https://www.heritage.org/index/country/haiti)
- 6 [HTTPS://WWW.WEFORUM.ORG/AGENDA/2016/01/INEQUALITY-IS-GETTING-WORSE-IN-LATIN-AMERICA-HERE-S-HOW-TO-FIX-IT/](https://www.weforum.org/agenda/2016/01/inequality-is-getting-worse-in-latin-america-here-s-how-to-fix-it/)
- 7 [HTTP://WEB.WORLDBANK.ORG/ARCHIVE/WEBSITE00969/WEB/OTHER/B92A9D0D.HTM?OPENDOCUMENT](http://web.worldbank.org/archive/weBSITE00969/web/other/B92A9D0D.htm?opendocument)
- 8 [HTTPS://WWW.WORLDATLAS.COM/ARTICLES/THE-RICHEST-CARIBBEAN-COUNTRIES.HTML](https://www.worldatlas.com/articles/the-richest-caribbean-countries.html)