Global COVID-19 Vaccine Tracker

Situation

The COVID-19 pandemic has been a global crisis that has affected millions of people worldwide. One of the most effective ways to combat the pandemic is through vaccination. However, the vaccination rollout has been uneven across the globe, with some countries making significant progress towards vaccinating their populations while others lag behind. The goal of this project was to provide insights on the vaccination rollout at a global scale, with a focus on quantifying the speed and scale of the vaccination program on a daily basis.

Task

As the lead data analyst on this project, I was responsible for designing and implementing a dashboard that would allow users to explore key metrics related to the global vaccination program. I worked closely with the project team to identify the most relevant data sources and key metrics to track. I then used Tableau, one of the most popular and powerful data visualization tools, to create an interactive dashboard that would allow users to explore the data in real-time.

Action

To create the dashboard, I utilized the Our World in Data COVID vaccination dataset, which is updated regularly and uses the most recent official numbers from governments and health ministries worldwide. I designed the dashboard to include key metrics such as the share of the population that has been partially or fully vaccinated, vaccine doses administered daily, boosters administered daily, and GDP correlation with vaccination program performance. The dashboard also includes cool map charts and allows filtering by date, country, and continent. The preview of the dashboard is available below.

COVID-19 Global Vaccine Tracker

49.3% of the world population has recieved al least one does of a COVID-19 Vaccine

7 billion does have been adminstered globally and 24.08 million are now adminstered each day

Select Start Date
9/4/2020

Country
All

Select End Date
10/25/2021

Continent
Multiple values

What share of the population has been partially or fully vaccinated against COVID-19

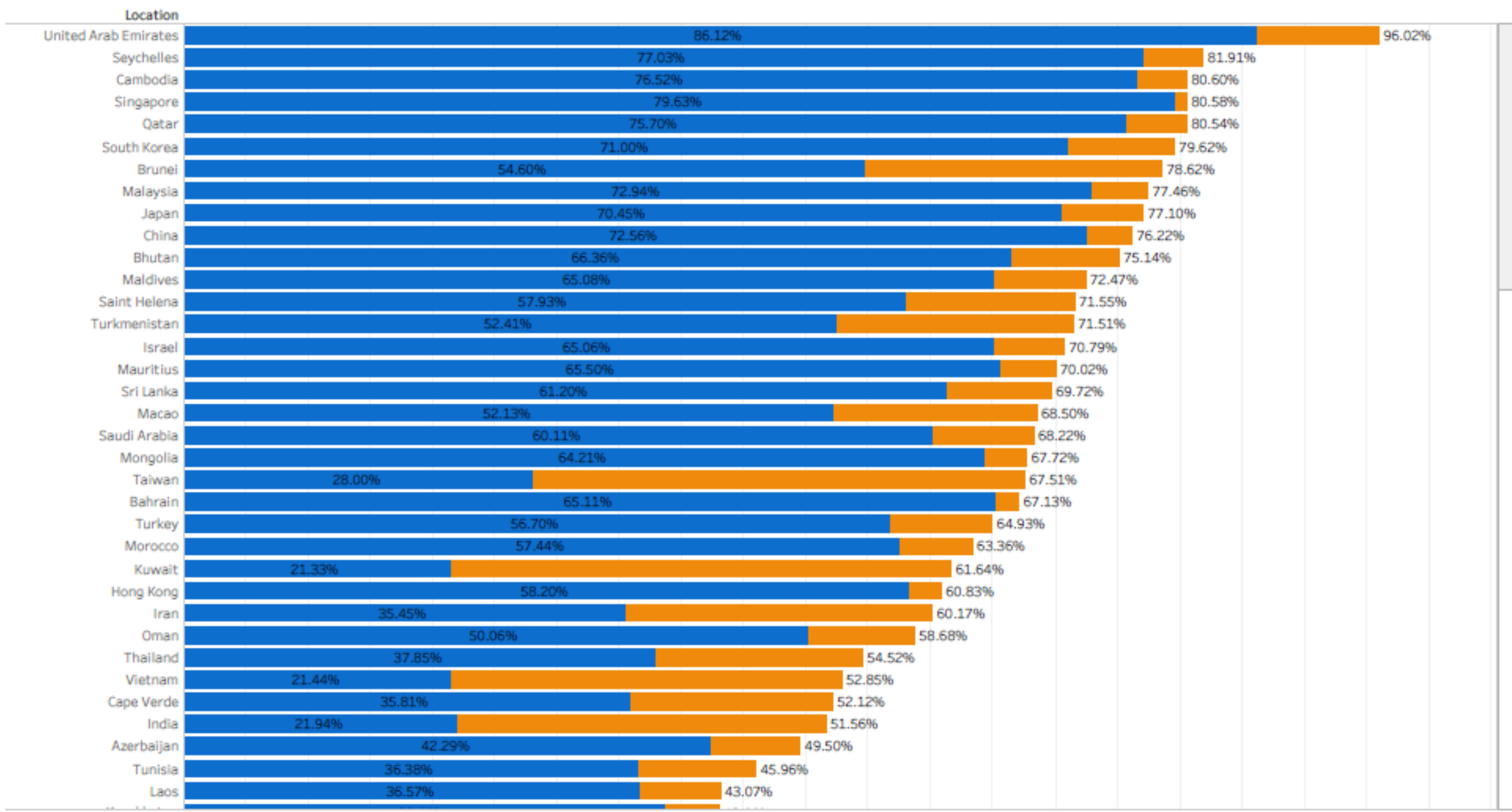1,100,842,000
People Only Partly Vaccinated againt COIVD-19

1,047,872,000
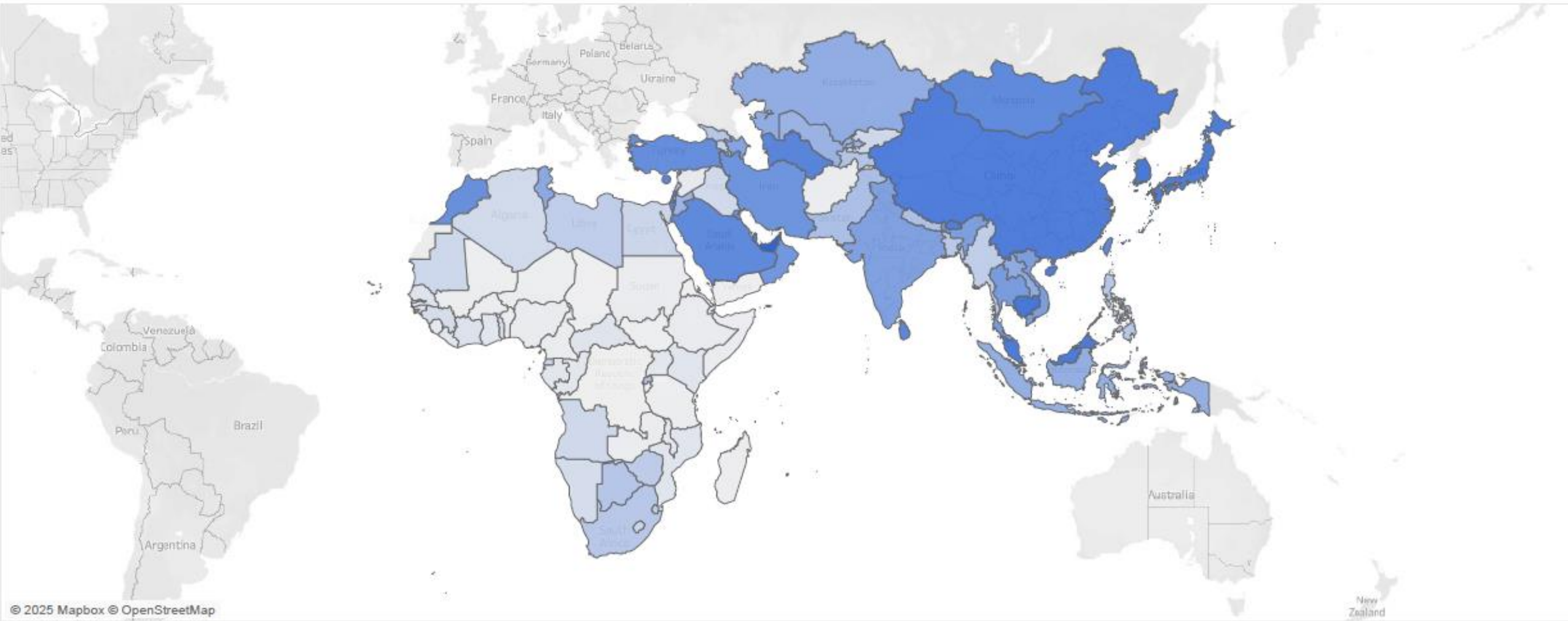People Only Fully Vaccinated againt COIVD-19

27.44%
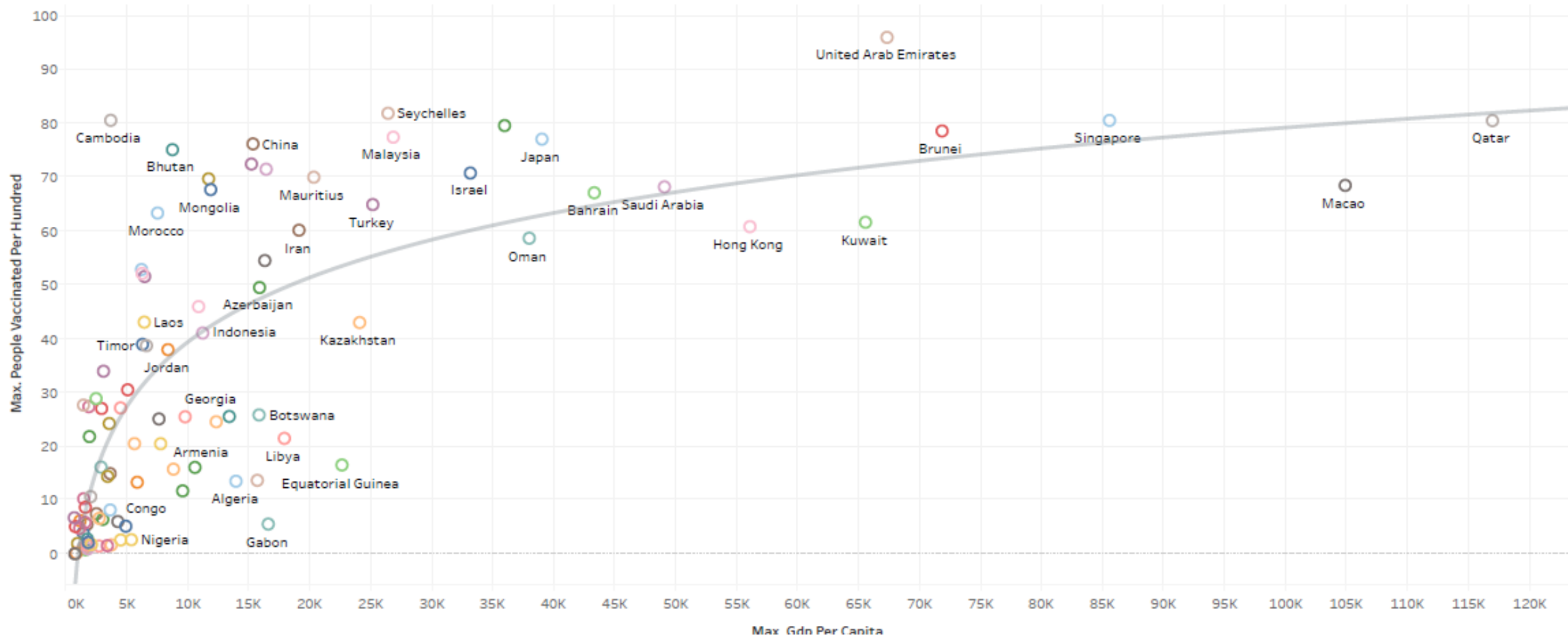Share of People Not Vaccinated over Population

Partially vs Fully Vaccinated per Location

Location

Location	Partially	Fully
United Arab Emirates	86.12%	96.02%
Seychelles	77.03%	81.91%
Cambodia	76.52%	80.60%
Singapore	79.63%	80.58%
Qatar	75.70%	80.54%
South Korea	71.00%	79.62%
Brunei	54.60%	78.62%
Malaysia	72.94%	77.46%
Japan	70.45%	77.10%
China	72.56%	76.22%
Bhutan	66.36%	75.14%
Maldives	65.08%	72.47%
Saint Helena	57.93%	71.55%
Turkmenistan	52.41%	71.51%
Israel	65.06%	70.79%
Mauritius	65.50%	70.02%
Sri Lanka	61.20%	69.72%
Macao	52.13%	68.50%
Saudi Arabia	60.11%	68.22%
Mongolia	64.21%	67.72%
Taiwan	28.00%	67.51%
Bahrain	65.11%	67.13%
Turkey	56.70%	64.93%
Morocco	57.44%	63.36%
Kuwait	21.33%	61.64%
Hong Kong	58.20%	60.83%
Iran	35.45%	60.17%
Oman	50.06%	58.68%
Thailand	37.85%	54.52%
Vietnam	21.44%	52.85%
Cape Verde	35.81%	52.12%
India	21.94%	51.56%
Azerbaijan	42.29%	49.50%
Tunisia	36.38%	45.96%
Laos	36.57%	43.07%

Vaccinated per Hundred - Map

Vaccinated over GDP per Location

Result

The dashboard has been a tremendous success, providing valuable insights into the progress of the global vaccination program. The dashboard has been widely used by policymakers, researchers, and the general public to track vaccination progress and identify areas where additional resources are needed. Some of the quantifiable results of the project include:

•Increased transparency and accountability in the global vaccination program
•Improved coordination among countries and organizations working to combat the pandemic
•Accelerated progress towards achieving herd immunity in many countries

Reflection

This project taught me the importance of using data visualization tools to communicate complex information in a clear and concise manner. It also highlighted the importance of collaboration and teamwork in achieving project goals. In the future, I would focus on incorporating more real-time data sources and improving the dashboard's usability.