Covid-19 Policies to the Economy Analysis

For the course of CS-GY 6513 Big Data

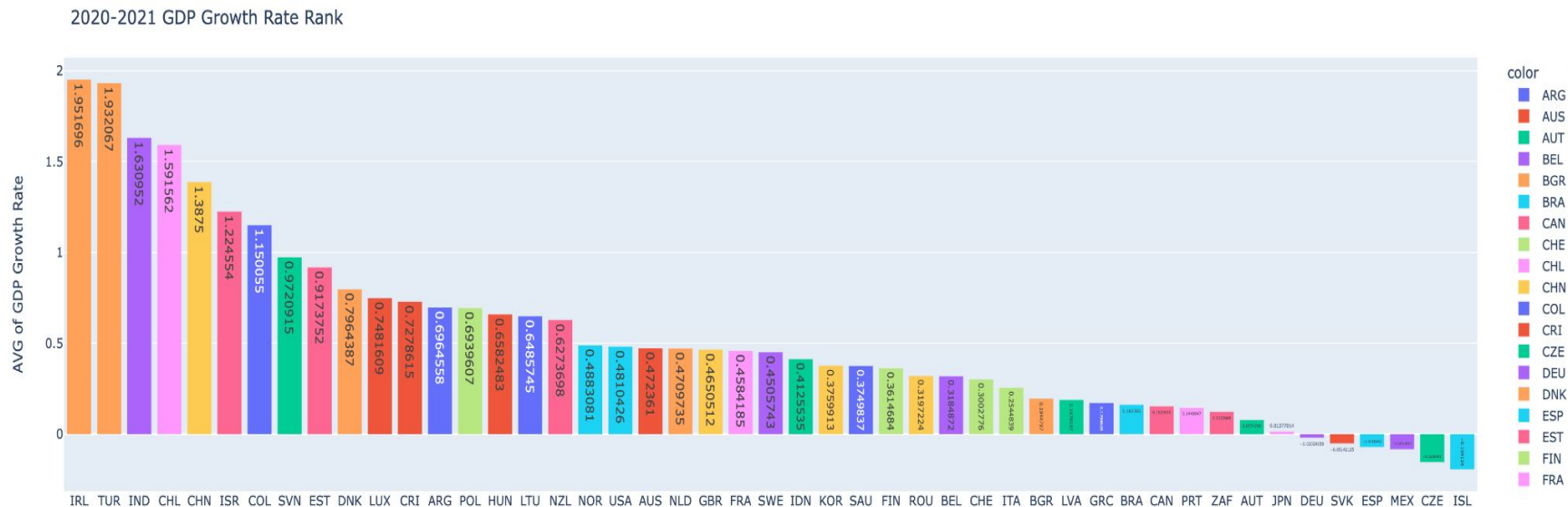**Team Member:**

Han Xu

Bojian Wang
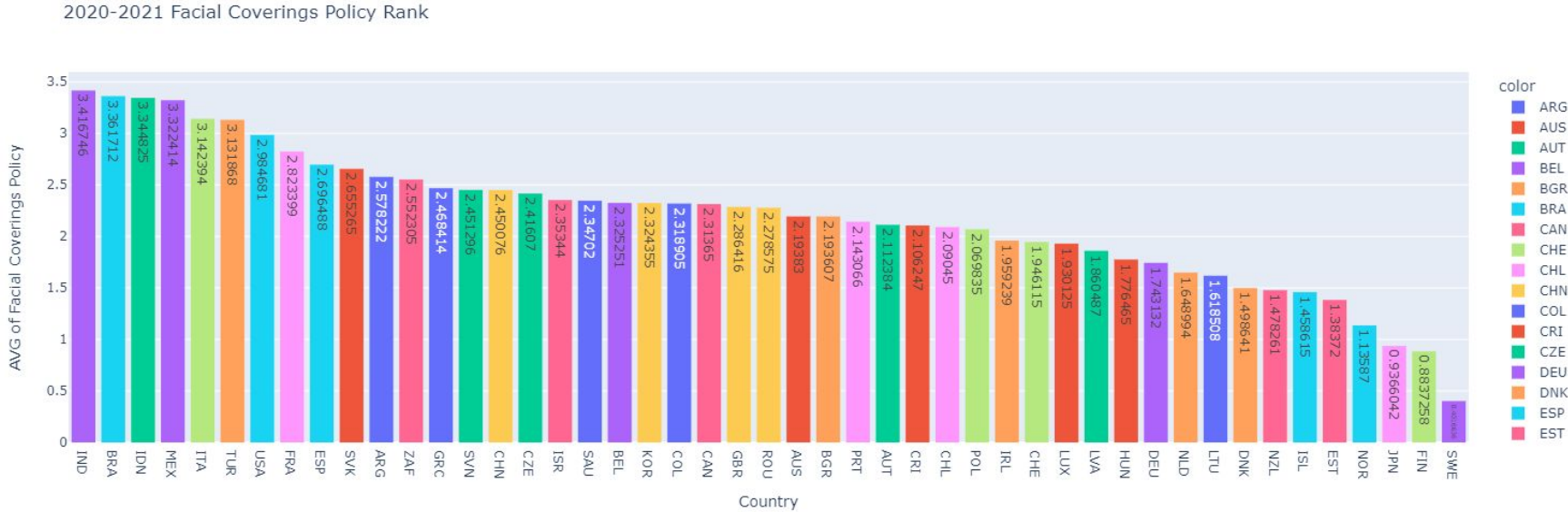
Jindong Du

Kaibo Zhang

Contents

- Objectives
  - Provide future suggestions to government by analyzing below two respectives:

    - Government policy affects the economy as a result of government care

    - People's cooperation impacts the economy as a result of mobility

- Data Exploration

- Data Analysis and Correlation Study
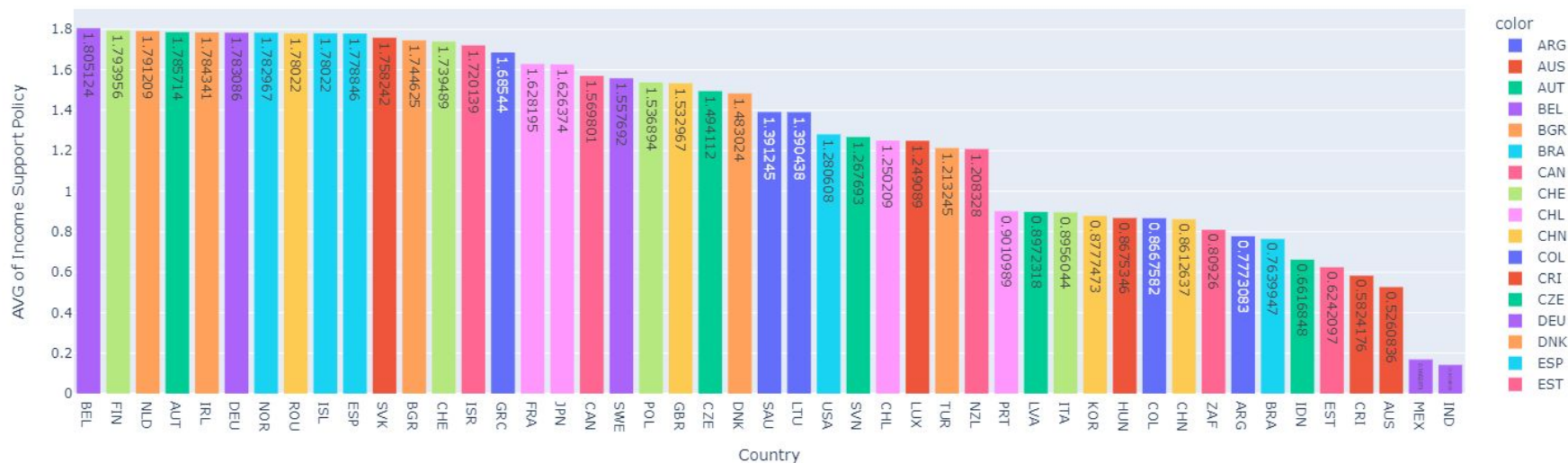
- Summary

2020-2021 Quarterly GDP Growth Rate

2020-2021 GDP Growth Rate Rank

AVG of GDP Growth Rate

IRL	1.951696
TUR	1.932067
IND	1.630952
CHL	1.591562
CHN	1.3875
ISR	1.224554
COL	1.150055
SVN	0.9720915
EST	0.9173752
DNK	0.7964387
LUX	0.7481609
CRI	0.7278615
ARG	0.6964558
POL	0.6939607
HUN	0.6582483
LTU	0.6485745
NZL	0.6273698
NOR	0.4883081
USA	0.4810426
AUS	0.472361
NLD	0.4709735
GBR	0.4650512
FRA	0.4584185
SWE	0.4505743
IDN	0.41255535
KOR	0.3759913
SAU	0.3749837
FIN	0.3614684
ROU	0.3197224
BEL	0.3184872
CHE	0.3002776
ITA	0.2544839

color
ARG
AUS
AUT
BEL
BGR
BRA
CAN
CHE
CHL
CHN
COL
CRI
CZE
DEU
DNK
ESP
EST
FIN
FRA

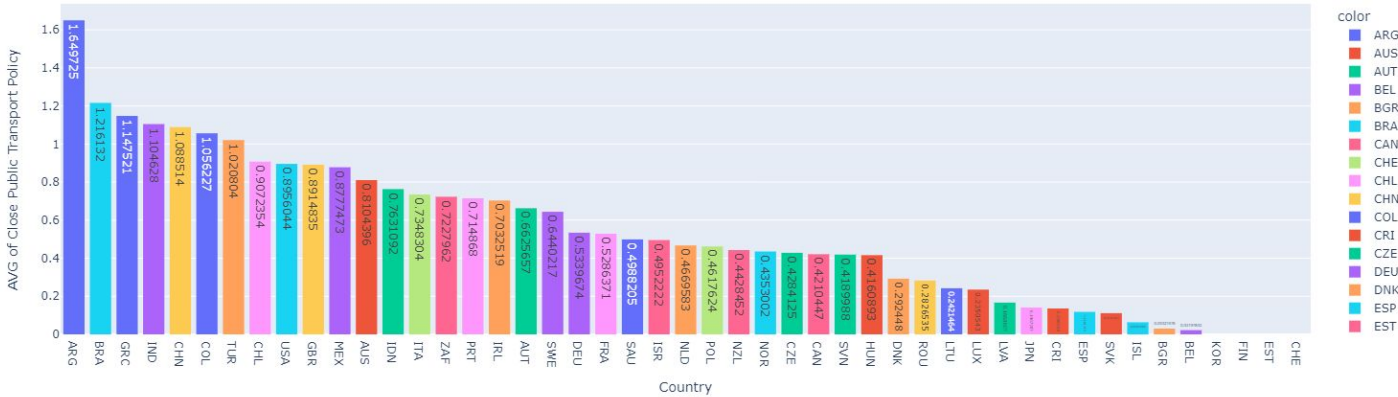# Policies

2020-2021 Facial Coverings Policy Rank
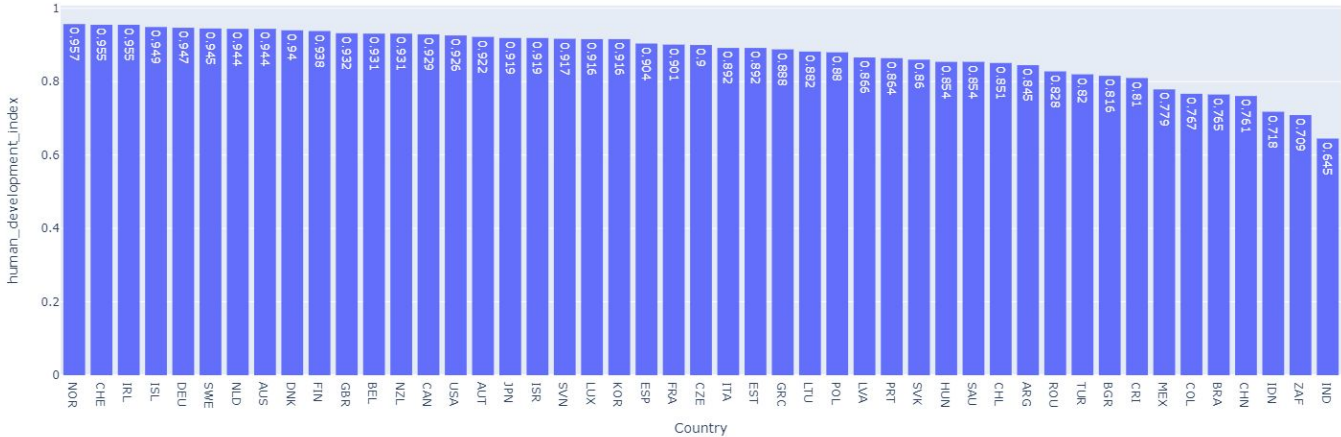
Policies

2020-2021 Income Support Policy Rank

Policies
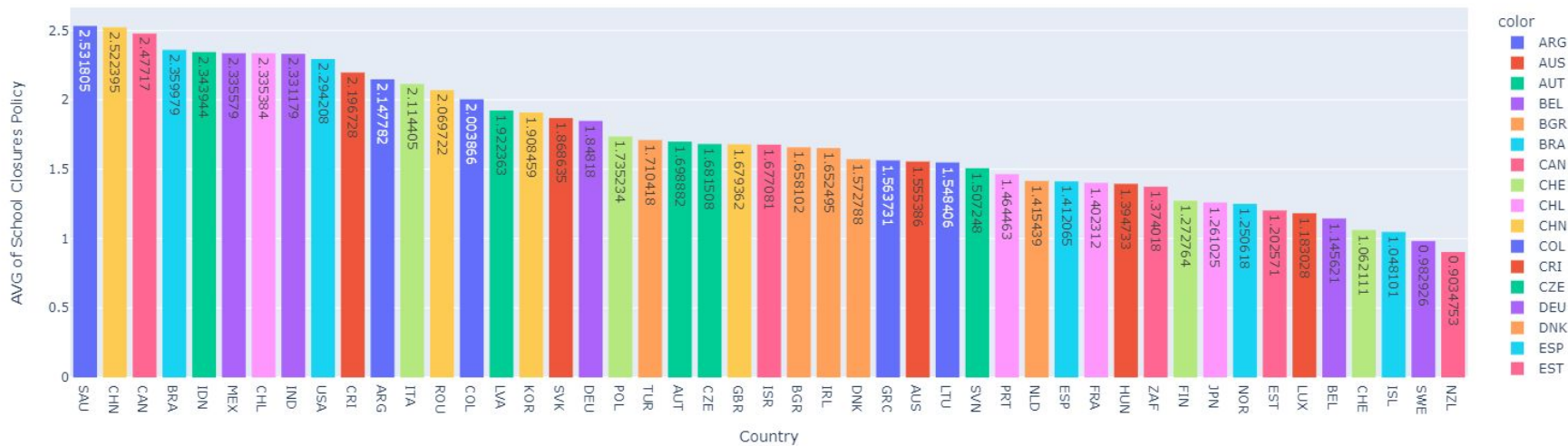

2020-2021 Close Public Transport Policy Rank
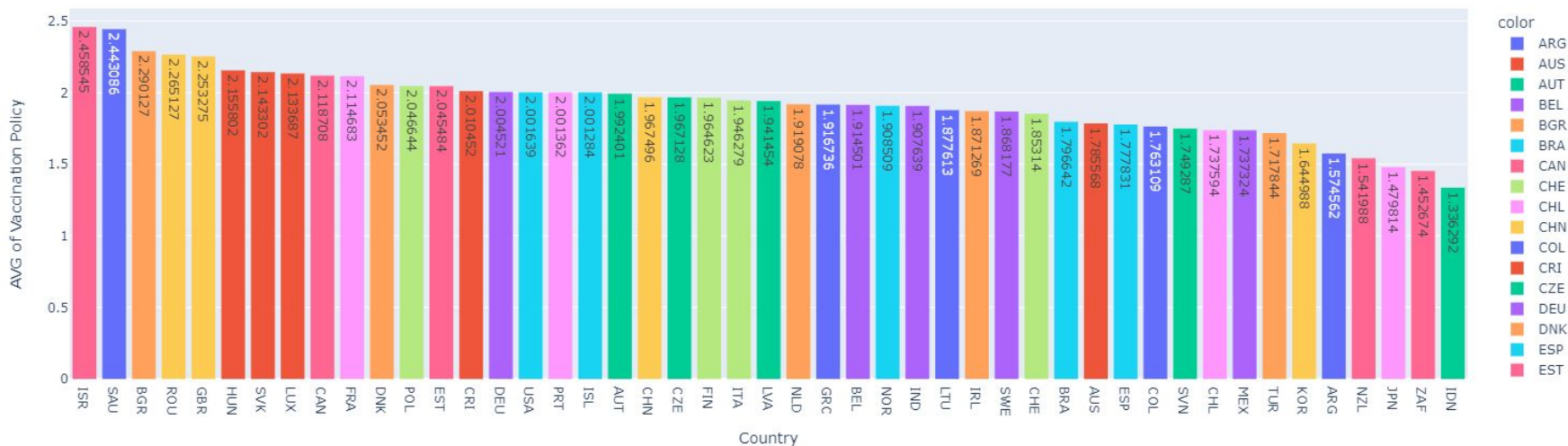
human_development_index Rank

Policies
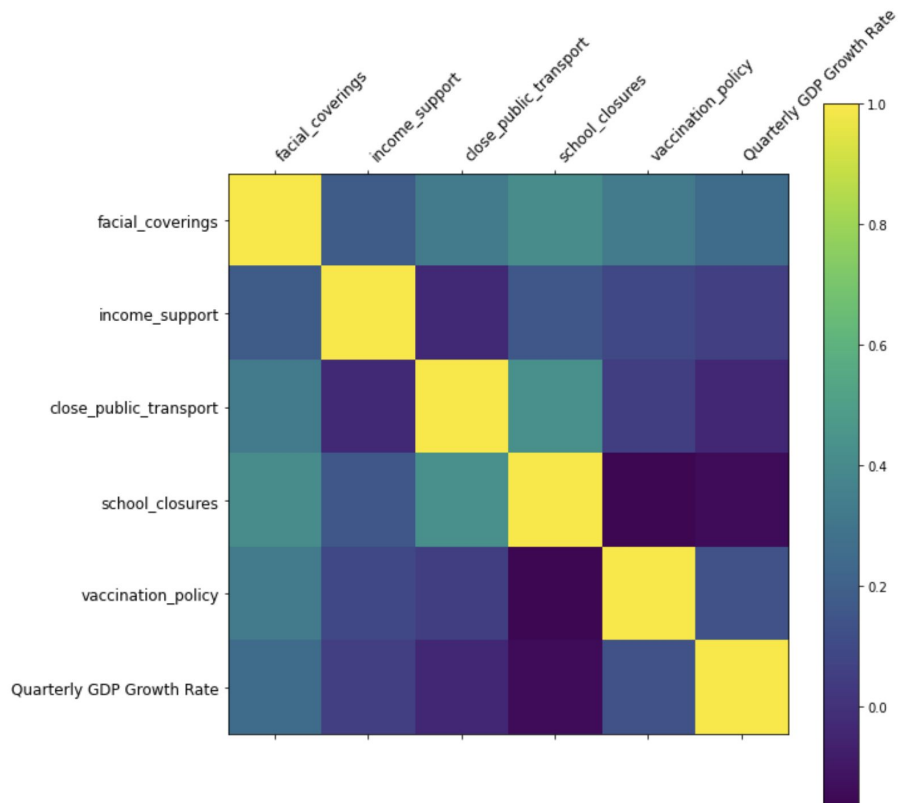

2020-2021 School Closures Policy Rank
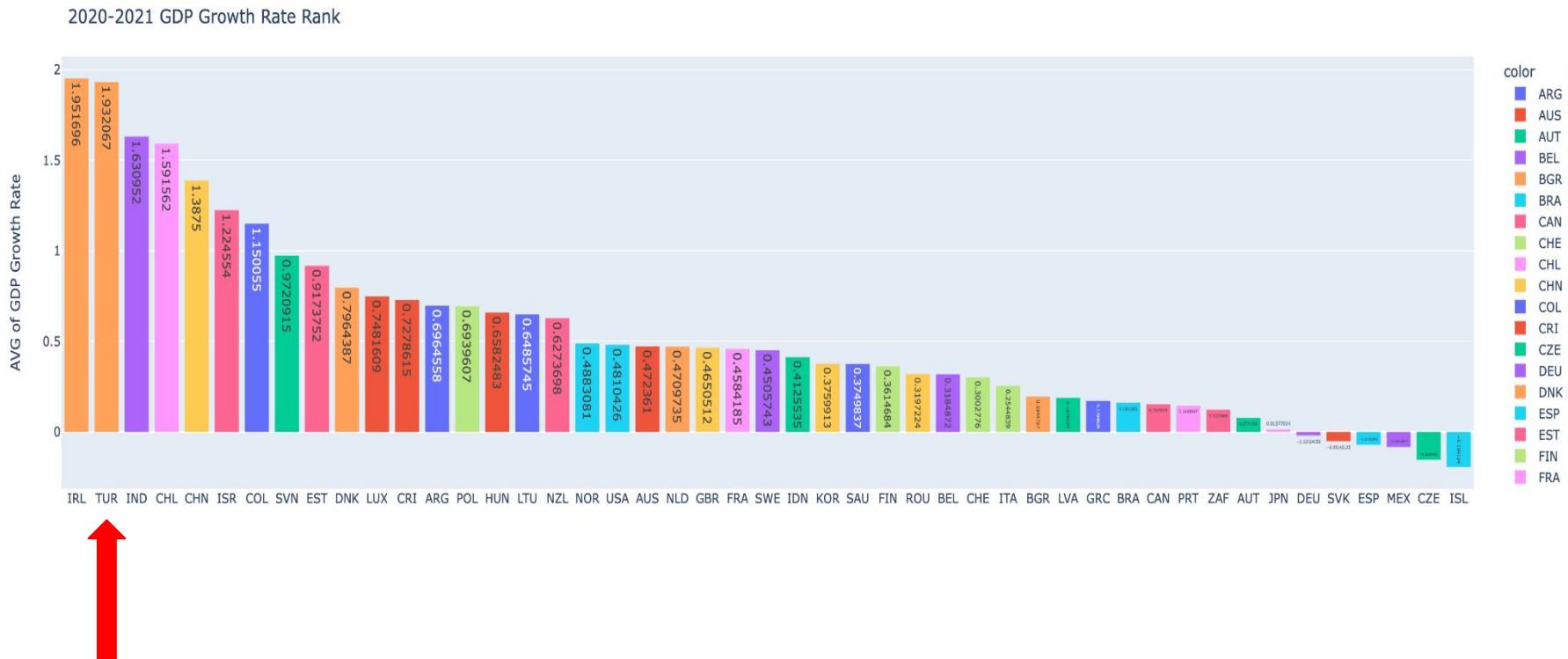
Policies

2020-2021 Vaccination Policy Rank

Correlation

- Two important policies:

  'Facial_coverings'

  'vaccination_policy'

- Interest finding:

  income_support has low correlation with GDP growth rate.
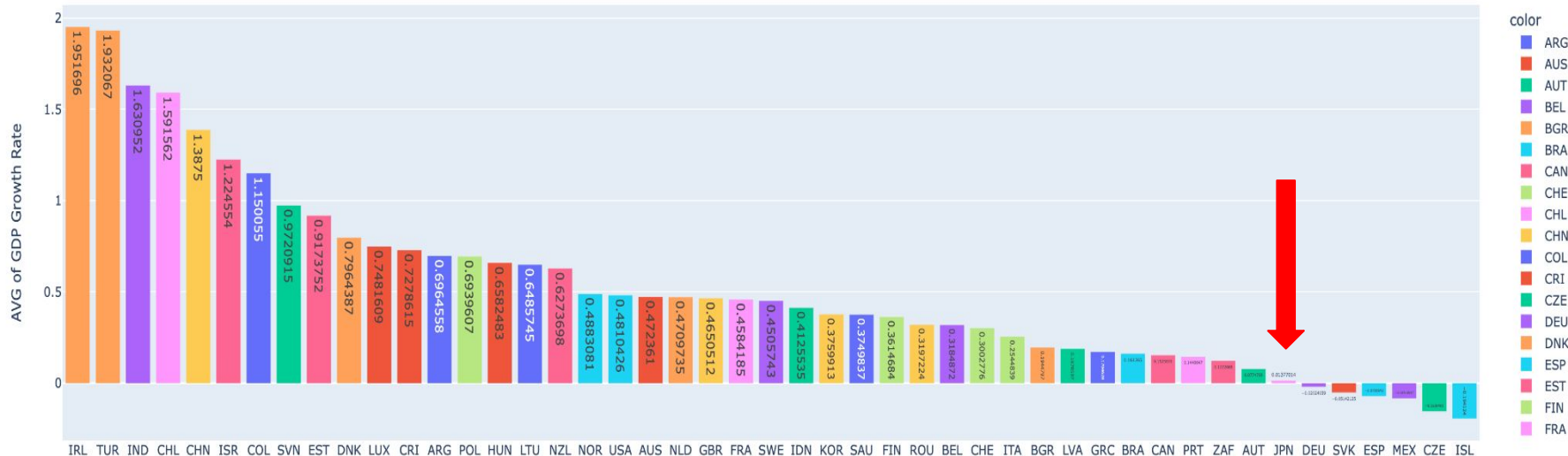
Country Analysis (Turkey)

2020-2021 GDP Growth Rate Rank

Country Analysis (Turkey)

TUR 2020-2021 Policy Rank

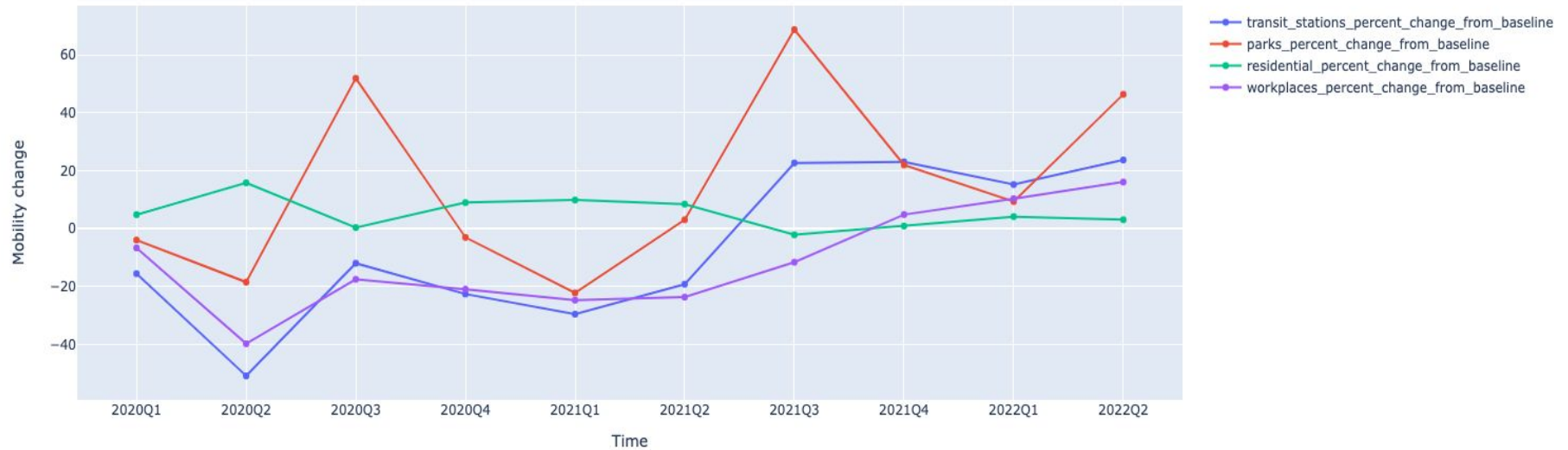# Country Analysis (Japan)

2020-2021 GDP Growth Rate Rank

Country Analysis (Japan)
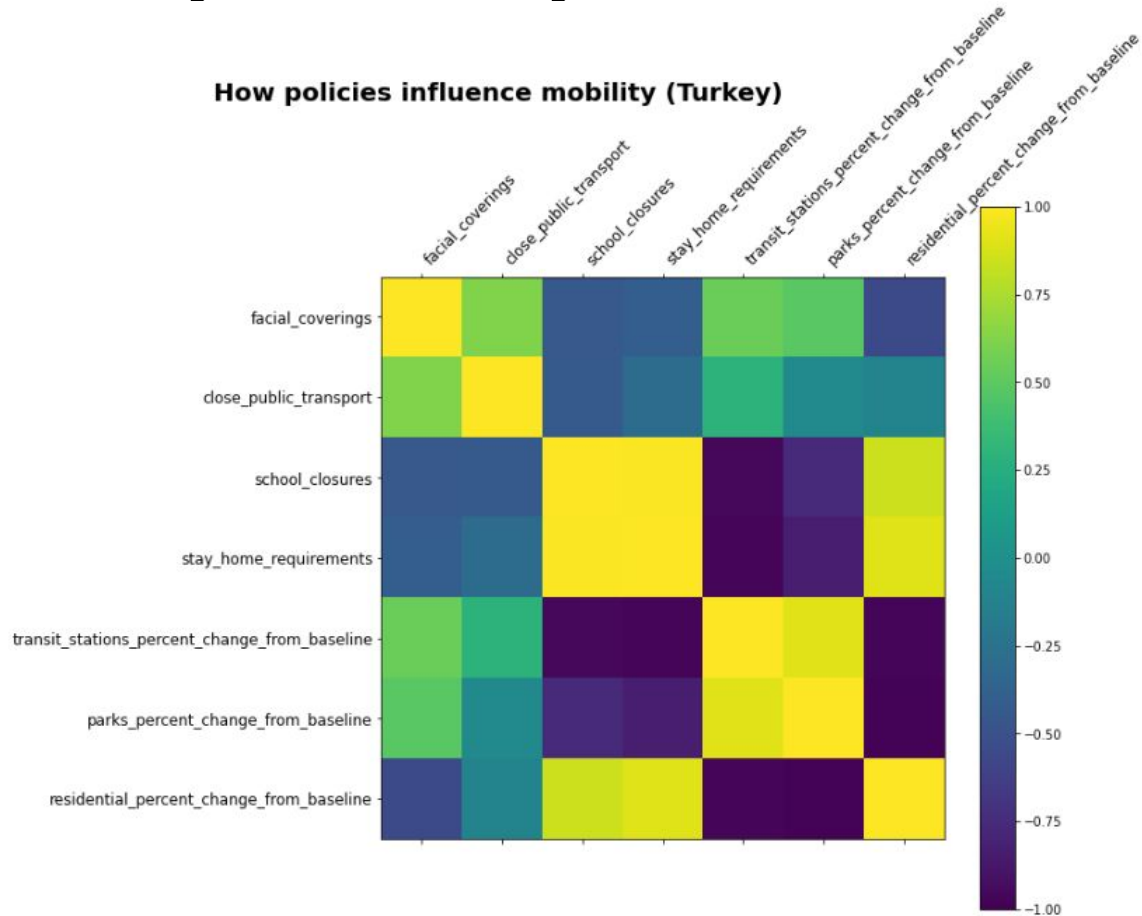

JPN 2020-2021 Policy Rank

Mobility Analysis (Turkey)
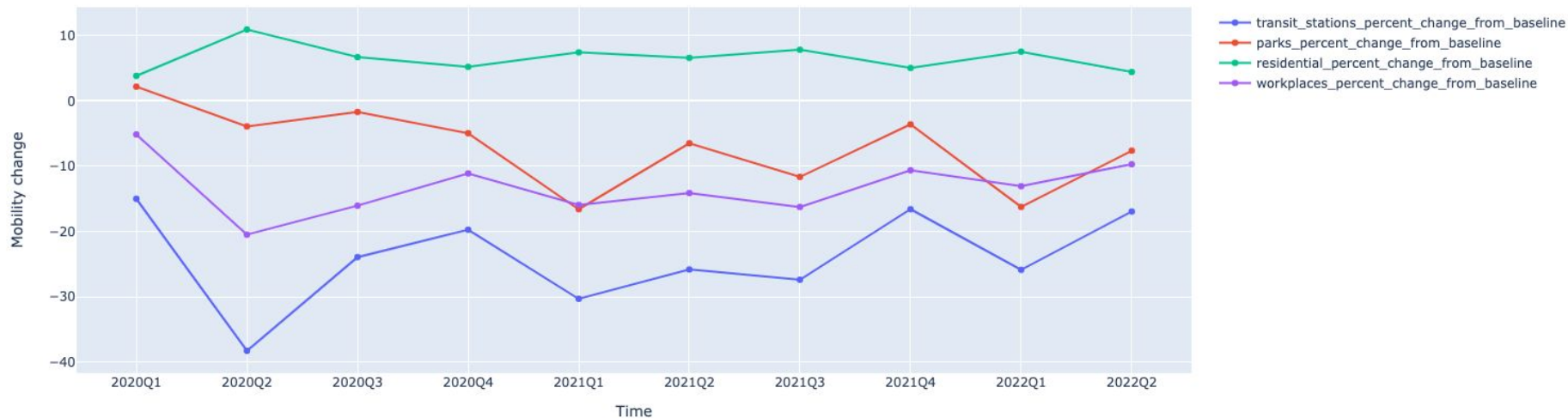

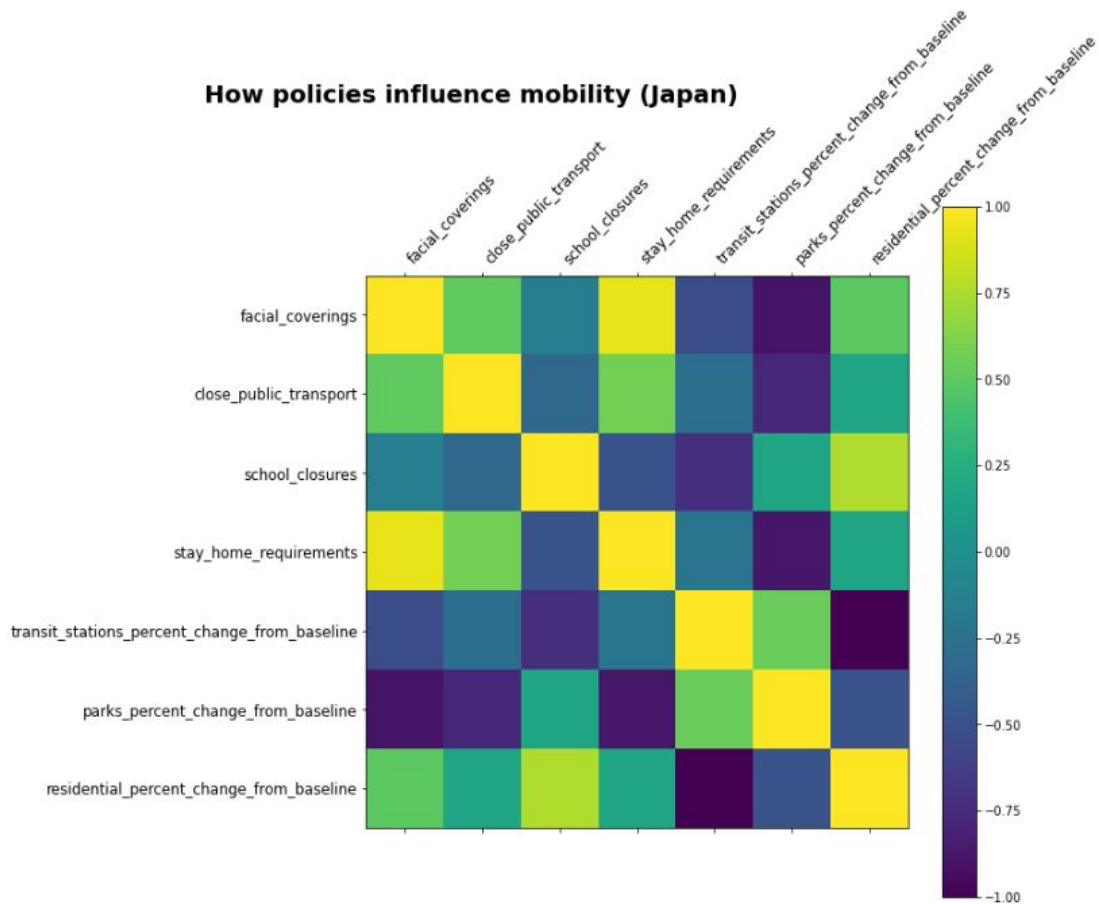Turkey 2020-2022 Mobility change

Mobility Analysis (Turkey)

How policies influence mobility (Turkey)

Mobility Analysis (Japan)

Japan 2020-2022 Mobility change

Mobility Analysis (Japan)

How policies influence mobility (Japan)
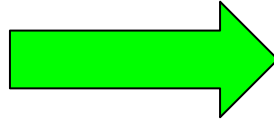
Mobility Impacts
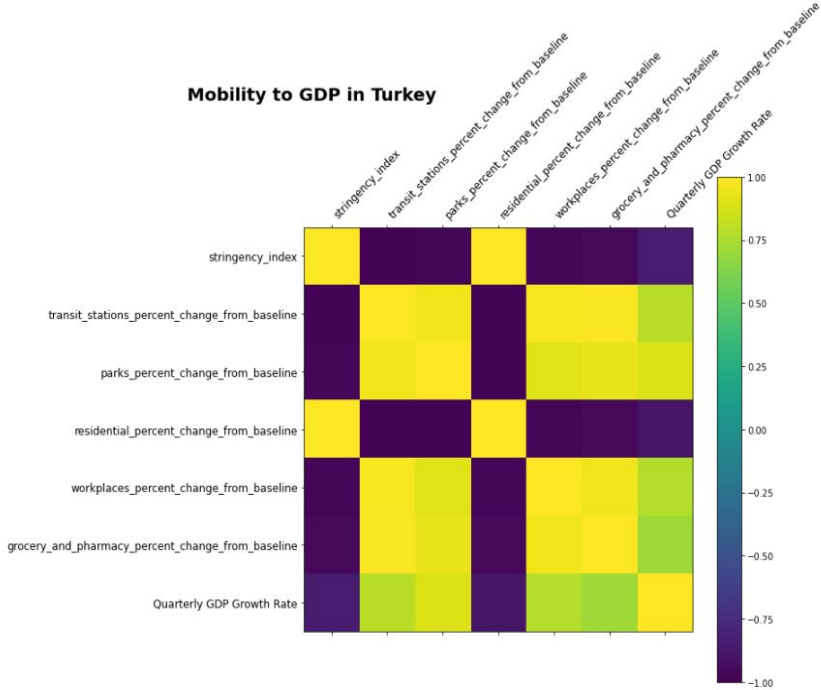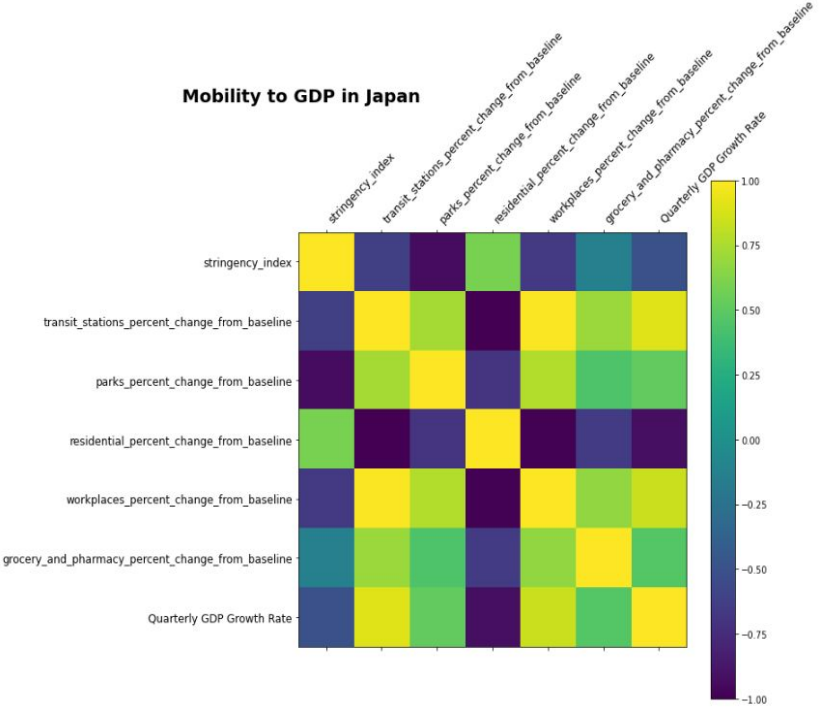
Conclusion

- Government's Adaptiveness
- Scientific Judgments
- People Cooperation
- Positive Attitude

→ Rapid recovery of GDP