

Impact of Financial Policies Implemented in response to COVID-19 on Global Economy

From policy to remedy!

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Questions to Answer

How did the GDP change around the world before, during and after the pandemic?

Which countries were hit the worst?

What steps were taken by the best performing countries to improve their economy?

Policy implementation suggestions to worst-performing countries based on all previous analyses and observations

About Data Source

COVID-19 Finance Starter EDA*
consisting nearly 4000 rows with
data on different policy measures
taken by 157 countries

**Annual GDP for every country in
the world by the World Bank with
271 records from 1960 to 2021**

* "COVID-19 Finance Starter EDA" hosted by Bojan Tunguz

Data Processing

Data Extraction:

- Loaded two datasets consisting of Policy Measures Data Implemented due to the pandemic and data consisting of the GDP of every country for analysis.
- Only data of pre, during, and post covid required so the years 2018 - 2021 were filtered out from GDP dataset

Date Merging:

- Merged the GDP dataset and COVID dataset using the Country ISO3 code as the joining parameter for the same.

Data Preparation:

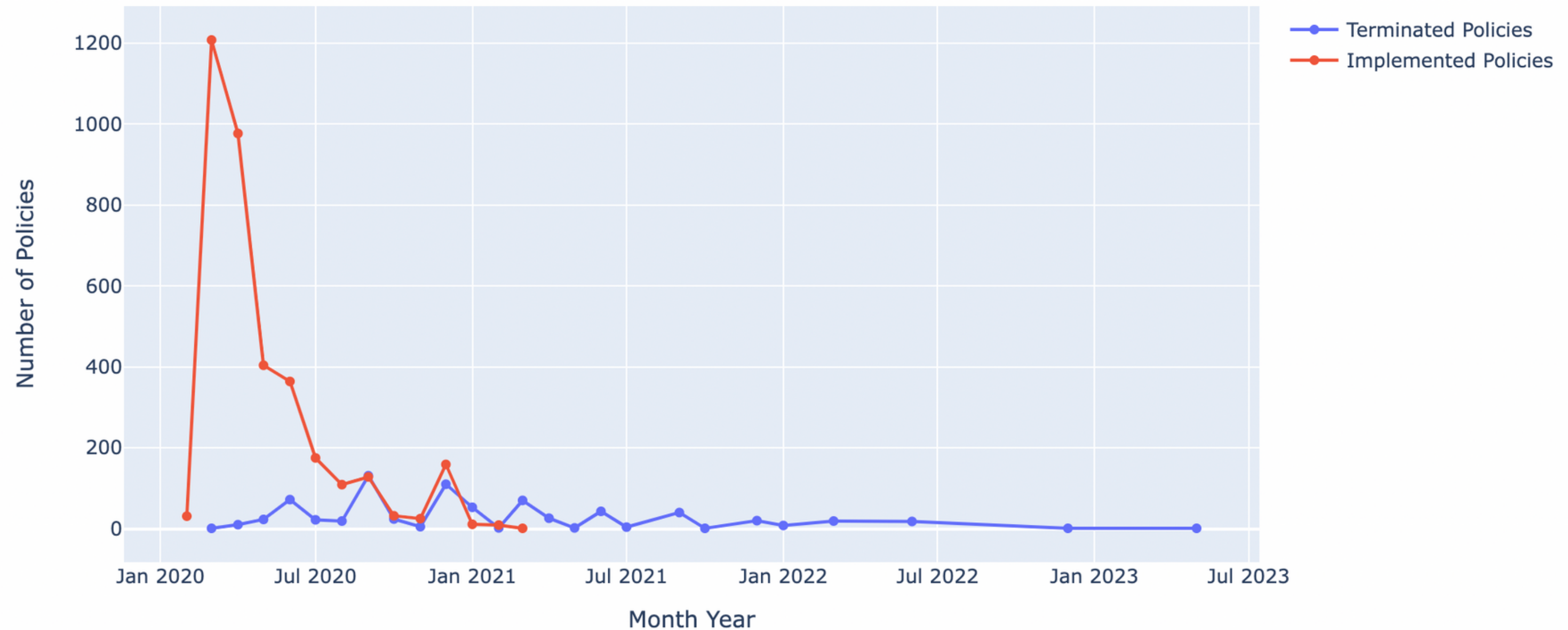
- Filtered column names of the merged dataset using the columns required for further analysis
Reordered columns as per requirement.

Data Cleaning

- **Country Name** - Removed White Space, Dropped Invalid countries
- **Authority** - Removed White Space, Replaced NaN values with 'No Information available', Replaced all the abbreviations with their Full Forms
- **'Country ISO3'** - Cleaned Covid Dataset's column for merging the dataset.
- **Date** - Renamed to Implementation Date, Converted to Date Time format, Extracted Year and Year/Month of implementation
- **Level 1 policy measures** - Removed White Space
- **Level 2 policy measures** - Removed White Space
- **Termination Date** - Extracted Year and Year/Month of termination
- **Policy Modifications** - Removed White Space, Replaced observations with relevant strings

DATA ANALYSIS: COMMON POLICY IMPLEMENTATION AND TERMINATION TIMELINE

Number of Policies Implemented and Terminated all around the globe by month and year



DATA ANALYSIS: COMMON POLICY IMPLEMENTATION AND TERMINATION TIMELINE

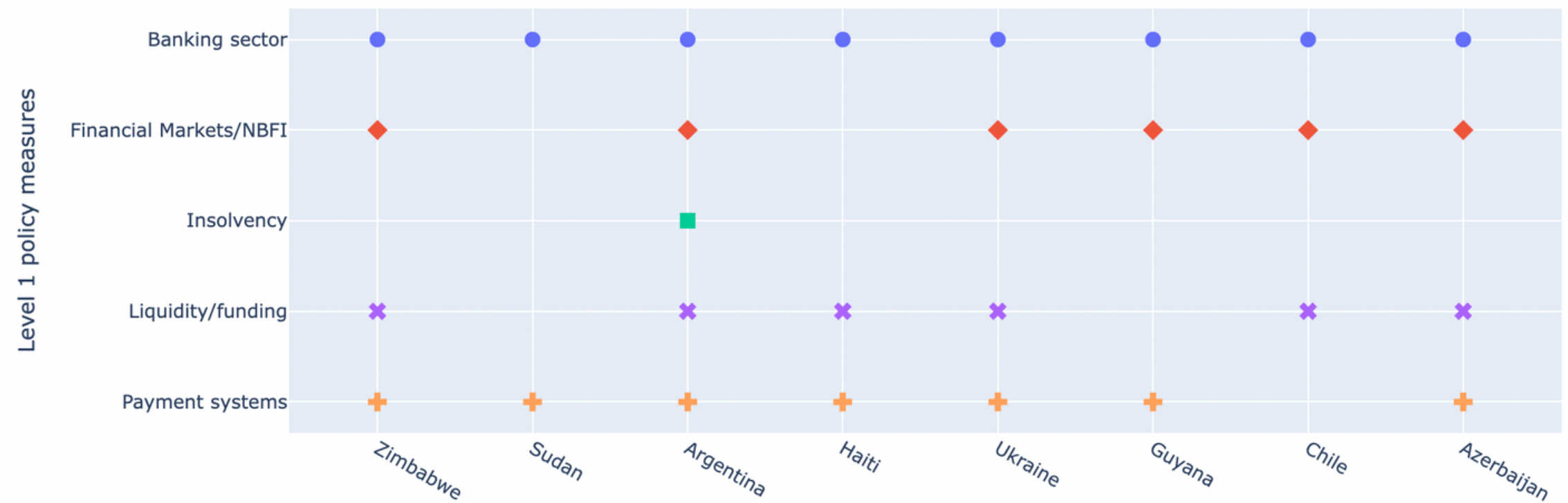
Most policies implemented at the start of the pandemic, March 2020

Some countries took preventive measures by implementing policies early in February 2020

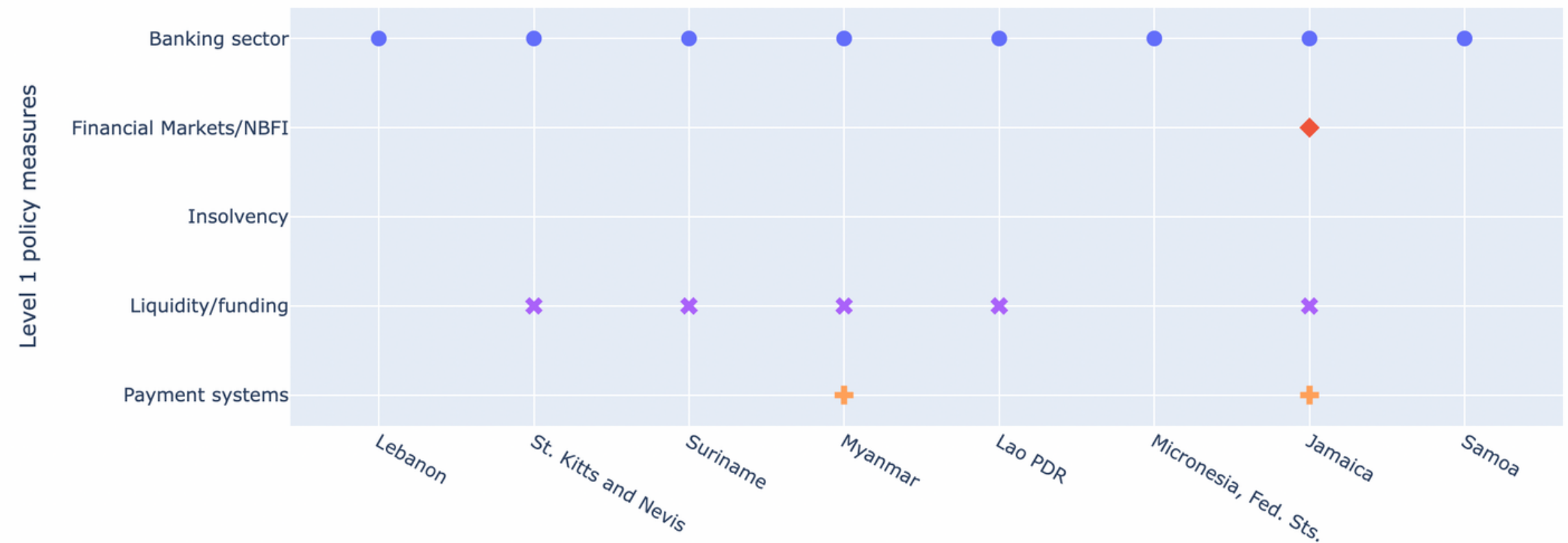
Some countries took extreme short-term policies. It can be to: Curb the risk of high inflation rollback failed policies to prevent further issues

COMMON POLICY MEASURES ACROSS BEST AND WORST PERFORMING COUNTRIES

Level 1 Policy Measures Implemented by Best Performing Countries



Level 1 Policy Measures Implemented by Worst Performing Countries



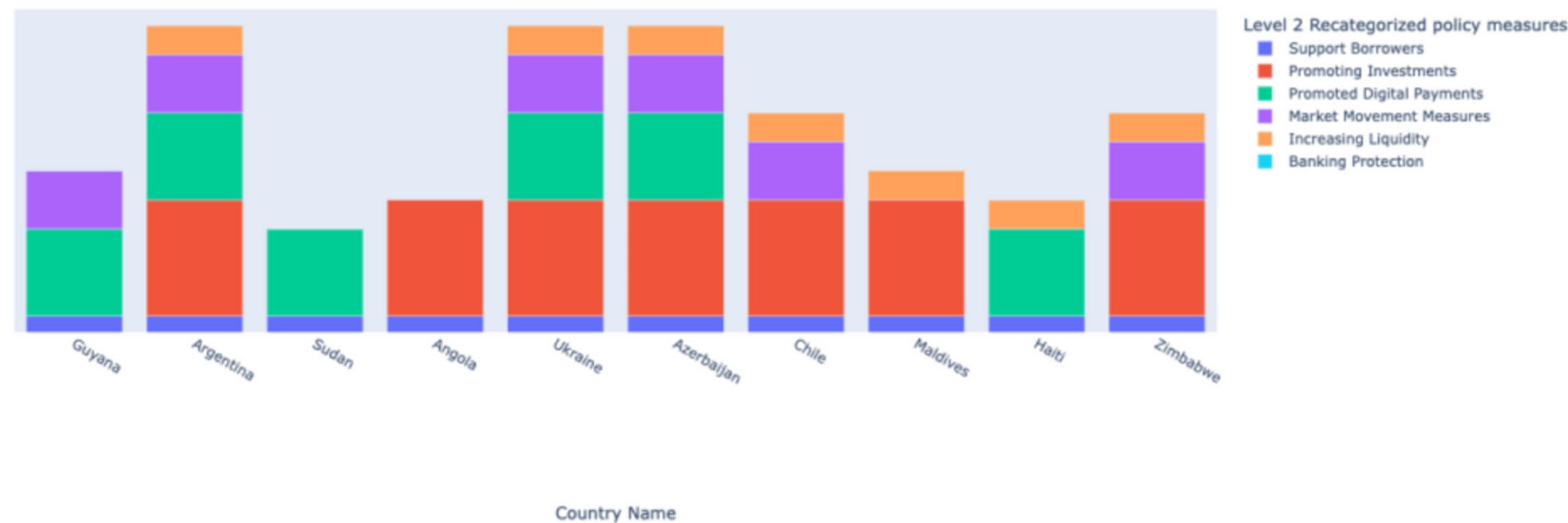
COMMON POLICY MEASURES ACROSS BEST AND WORST PERFORMING COUNTRIES

70% of best-performing countries aggressively promoted investments and 100% took measures to protect their banks and other financial institutions. Only 20% of the worst-performing countries took steps to promote investments and took measures to protect their banks and other financial institutions.

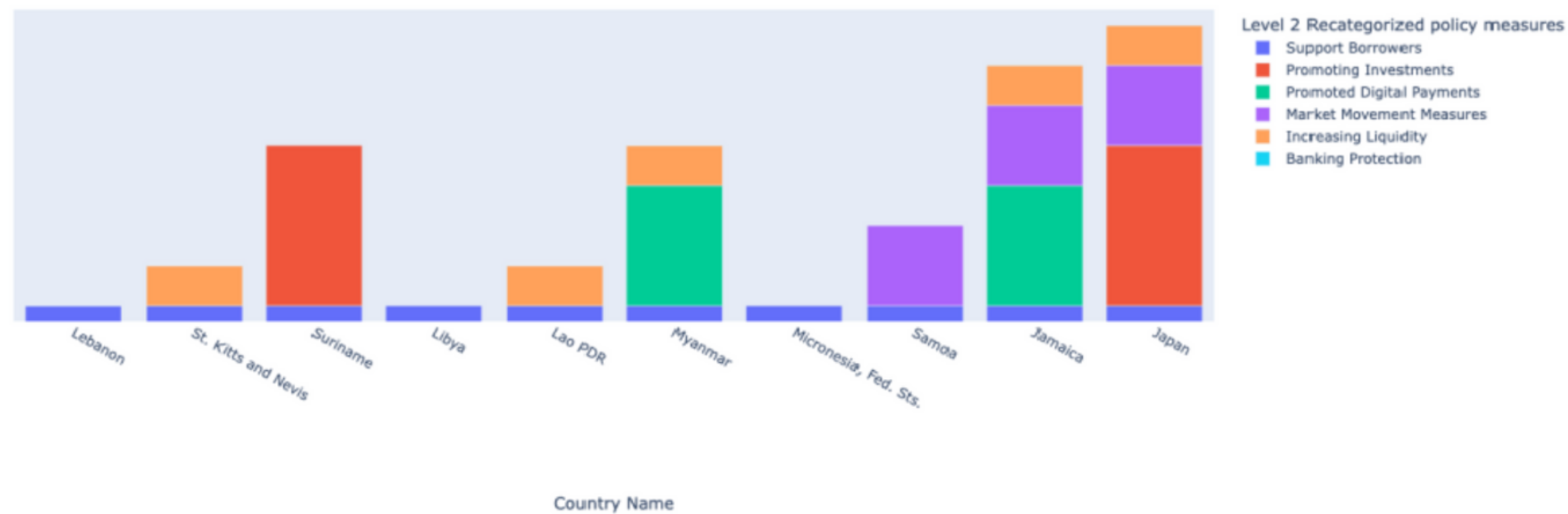
Majority of best-performing countries took measures to increase liquidity in their markets. Only half of the worst-performing countries took measures to increase liquidity in the market.

DETAILED
POLICY
MEASURES
ACROSS BEST
AND WORST
PERFORMING
COUNTRIES

Level 2 Policy Measures Implemented by Best Performing Countries



Level 2 Policy Measures Implemented by Worst Performing Countries



DETAILED POLICY MEASURES ACROSS BEST AND WORST PERFORMING COUNTRIES

70% of best-performing countries actively promoted digital payments to prevent the spread of infection. Only 30% of the worst-performing countries took measures to promote digital payments.

Most best-performing countries took aggressive market movement measures to control the prices of goods in the short term. Only 30% of worst-performing countries took any market movement measures.

RECOMMENDATIONS

**IMPLEMENT POLICIES TO SUPPORT BORROWERS BUT
TERMINATE THEM ON TIME TO CURB FURTHER**

**INFLATION PROMOTE DIGITAL PAYMENT METHODS
AND INVEST MORE IN DIGITAL ECONOMY**

**IMPLEMENT POLICIES TO PROMOTE INVESTMENTS AND
SUPPORT BANKS AND FINANCIAL INSTITUTIONS**

THANK YOU

Janhavi Namjoshi