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## What is CoupCast?

- CoupCast is a machine learning-based early warning forecasting system for estimating the risk of illegal leadership turnover each month.
- By utilizing random forest models and historical coup activity, CoupCast identifies the baseline risk factors and short-term triggers that greatly increase the likelihood of a coup occurring.
- The main outputs of CoupCast are percentages of monthly and annual risk, with the former changing monthly.
- It is crucial to remember that we don't view the percentage of coup risk through the lens of a threshold, rather, these percentages are relative.

## What is the REIGN Dataset?

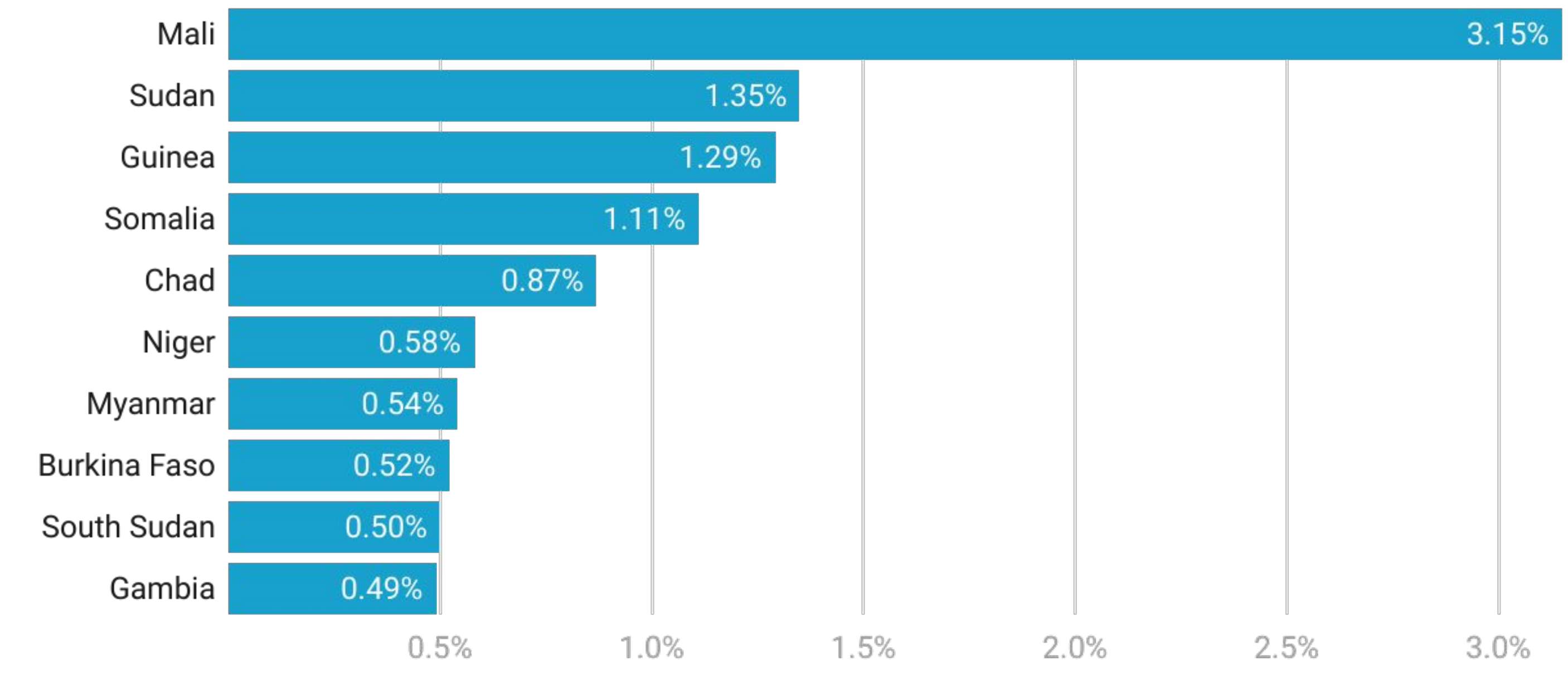
- The Rulers, Elections, and Irregular Governance (REIGN) dataset describes political conditions in every country each month, with these conditions including the tenures and personal characteristics of leaders, the types of political institutions in effect, and election-related outcomes and announcements.
- REIGN covers 201 sovereign states, including several states that existed at some point since January 1950 but have disappeared from the map (e.g., North and South Yemen, South Vietnam, etc.).
- This dataset also covers more than 2,300 world leaders who governed a qualifying country for at least seven consecutive data between January 1950 to the present.

## Evaluating CoupCast: The Mali Case

- Mali had an illegal leadership turnover in October of last year, with CoupCast placing it as the country with the highest risk that month and it being in the top 10 several months prior.
- This is likely due to Mali experiencing high tensions between civilian transitional government and the military since the handover of power in September of the same year.

### Top 10 Countries Facing High Risk of Coup in October 2021

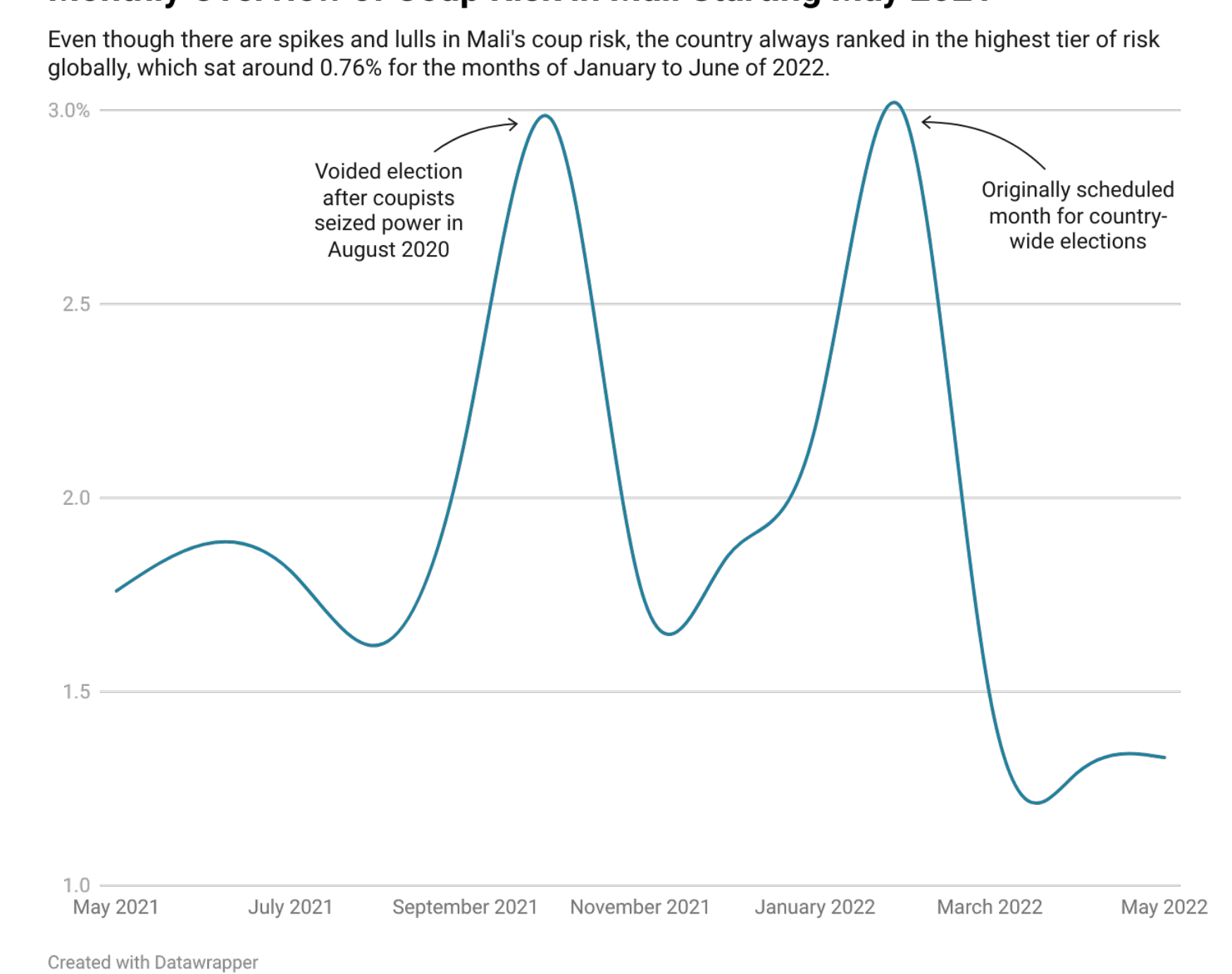
During this month, Mali faced a coup risk over twice as high compared to its counterparts, which really highlights CoupCast's ability to single out countries based on risk factors in the country



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- This country experienced not only a voided election in October 2021, but they also pushed off elections in February, which serve as triggering events for coups.

### Monthly Overview of Coup Risk in Mali Starting May 2021



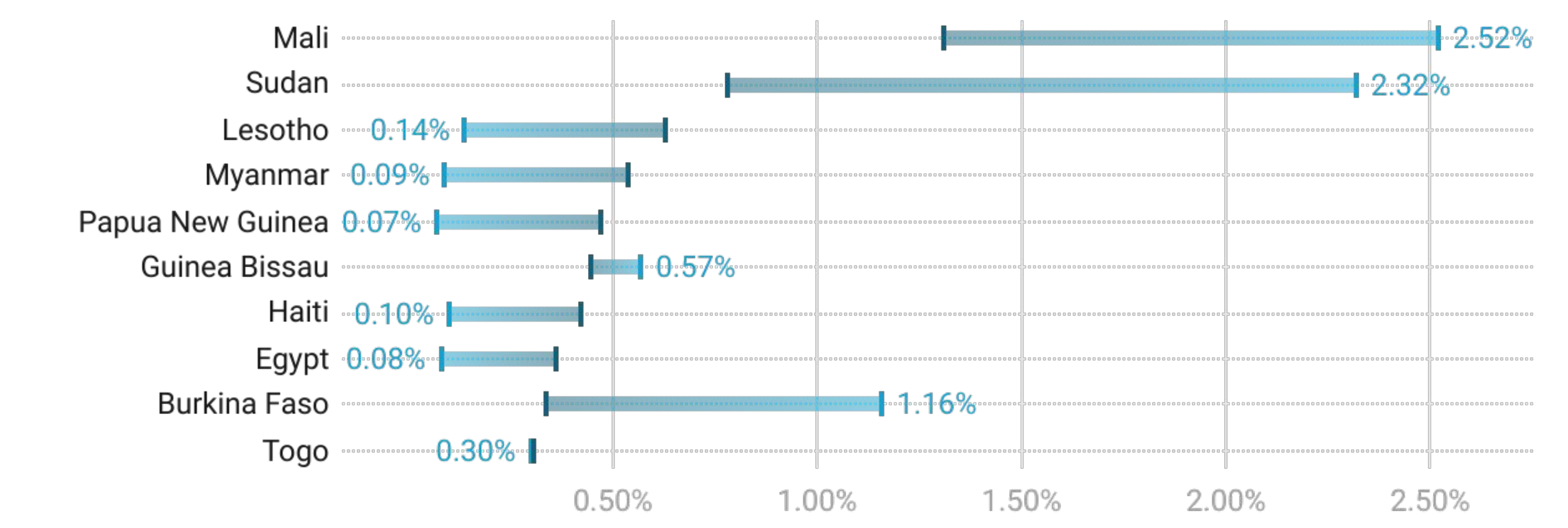
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## Are There Any Observed Trends?

- From the generated outputs of CoupCast, there have been trends in forecasted coup risk within the countries that consistently remain in the top 10 for highest risk.
- More specifically, the top countries with the highest forecasted risk of illegal leadership turnover have seen decreases in their monthly percentages ever since January of this year.
- However, this trend might not be directly attributed to the political climates of each country.

### Comparison of Coup Risk From January to July 2022

While these countries have had the highest risk of a coup event for this month, ever since January of this year, there has been a decline month-to-month for almost every region

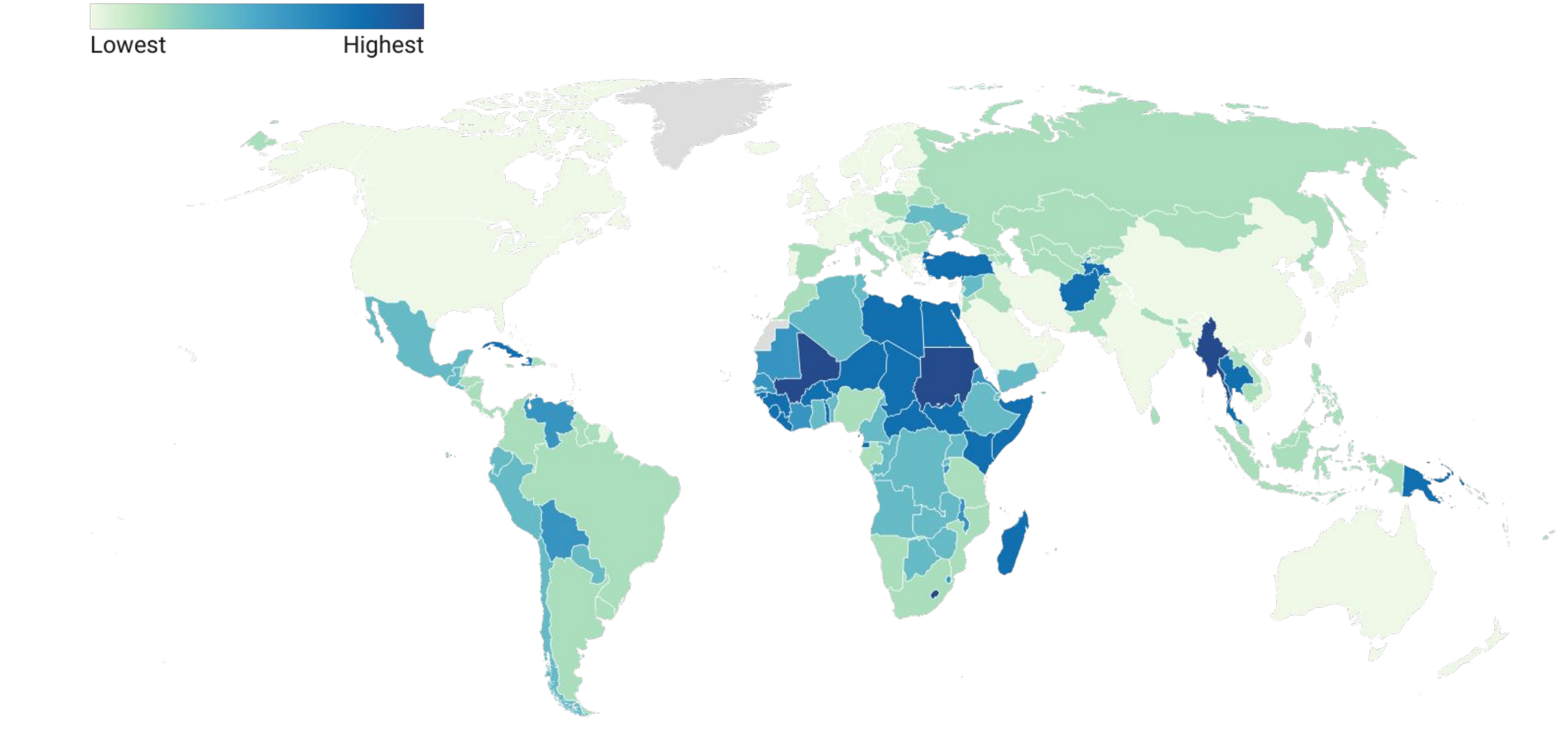


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## What's this Month's Forecast?

### Global Forecasted Risk of Coup for July 2022

Mali, Sudan, and Lesotho face the highest risk of a coup this month.



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