

An illustration of a diverse group of stylized people celebrating. In the center, a person with dark skin and orange hair looks up. To their right, a person with light skin and long dark hair is laughing. On the far right, a person with red skin is smiling. In the foreground, there are several smaller, cute characters, including one with a red body and white face, and another with a white body and black face. A person on the left is holding a red telescope. The background features a crescent moon, small orange 'x' marks, and birds. The entire scene is set against a light gray background.

WORLD HAPPINESS REPORT

FSDA-PARIS
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MEET OUR TEAM



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OVERVIEW

Background

The World Happiness Report (WHR) is a United Nations publication that ranks happiness from 1 to 10 in 149 countries (UN). The survey is based on how satisfied citizens perceive themselves to be. The life factor variables used in the reports reflect determinants that explain national-level differences in life evaluations found in the research literature.

Main Objective

The main objective of this research is to analyze how the World Happiness Scores are and the correlation of its variables.

Research Scope

- The scope of countries to be analyzed is the countries which have a complete happiness score between 2015 to 2022 (138 Countries).
- The World Happiness Index data from 2015 to 2022 will be used for the exploratory data analysis and its insights.

Research Questions

- How is the overall World Happiness Score?
- How is the correlation of each variable?
- How is the overall Happiness Score in the SEA region?
- What can/should be improved to increase Happiness Score?

Methodology

01. Set Problem Statement

Set the problem and objectives of the research and list the dataset that will be used.

02. Data Preparation and Cleaning

Gathering data needed for an analysis, impute missing data, check typos, string manipulation, remove incomplete data.

03. Data Analysis

Analyze cleaned data using Spreadsheet, Python and Tableau.

04. Data Visualization

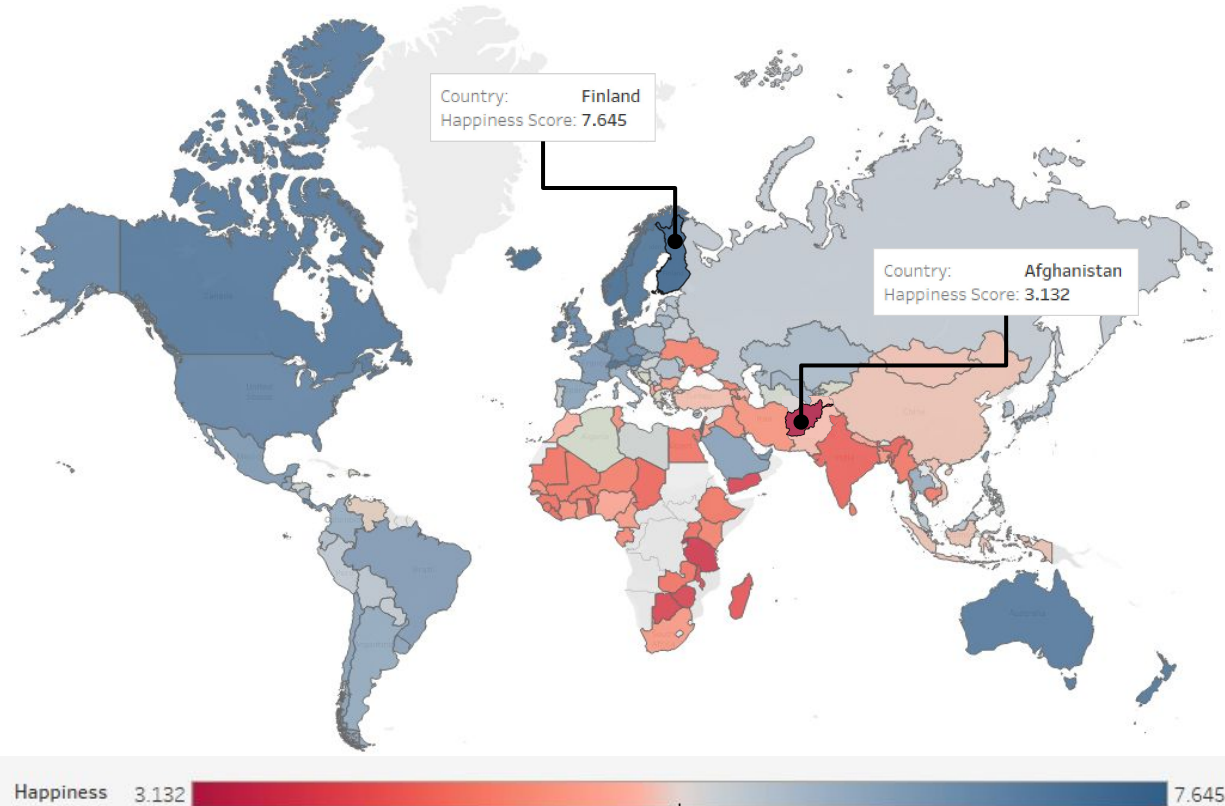
Do a visual analysis from created charts and trends in Tableau then create dashboard.

05. Insights & Recommendation

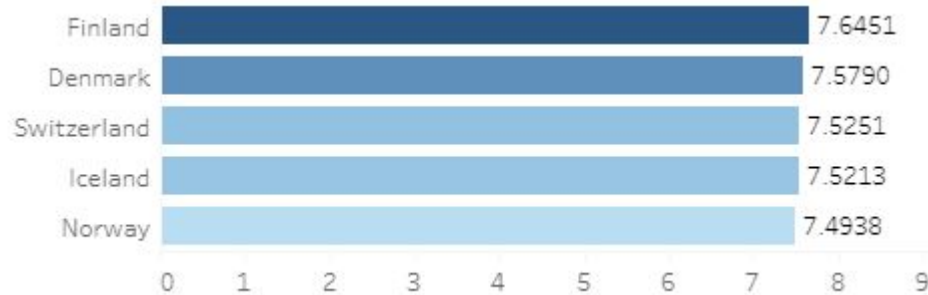
Answering research question, summaries/conclusions, recommendation.

Happiness Score Distribution

Countries in Europe have high happiness score while countries in Sub-Saharan Africa have low happiness score.

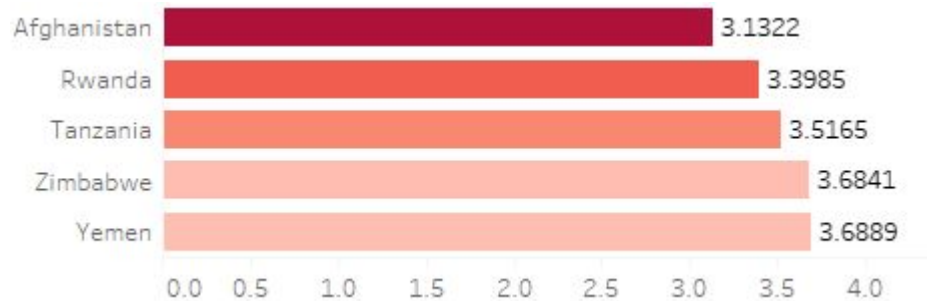


Top 5 Happiest Country Based on Average Happiness Score from 2015-2022



- **Finland** is the happiest country from 2018 to 2022.
- This is due to the **low crime rates, free education, and great medical care** Finland is known for.

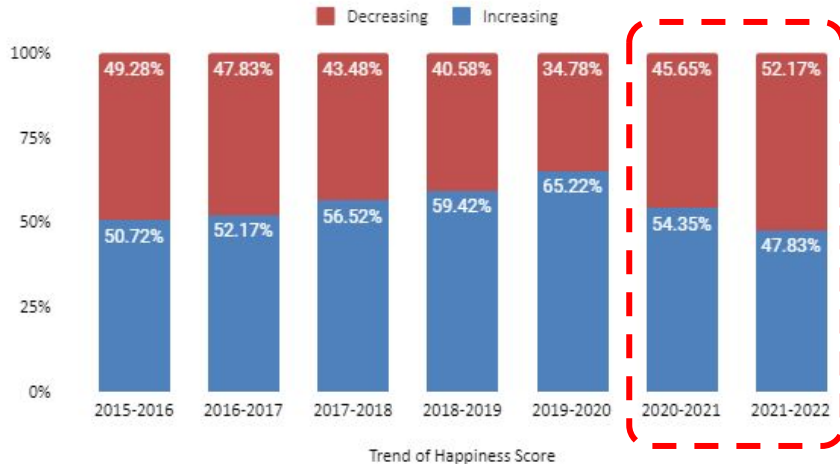
Top 5 Unhappiest Country Based on Average Happiness Score from 2015-2022



- Most of the top 5 unhappiest country is from **Sub-Saharan Africa** Region.
- Afghanistan is the lowest happiness score due to the **Taliban dictatorship** that has been happening since 2019.

There is an Overall Decrease in Happiness Score due to Covid-19 Pandemic

Countries Growth in Percent per Year



- The happiness score from 2015-2020 in 138 countries mostly increased.
- Meanwhile, in 2021, 45.65% of countries are experiencing a decrease in happiness score and 52.17% decreased in 2022.

Top 5 Countries Experiencing Most Decrease During Covid Period

Country	2019-2020
Afghanistan	-19.87%
India	-11.01%
Nigeria	-10.27%
Sierra Leone	-10.24%
Zimbabwe	-9.94%

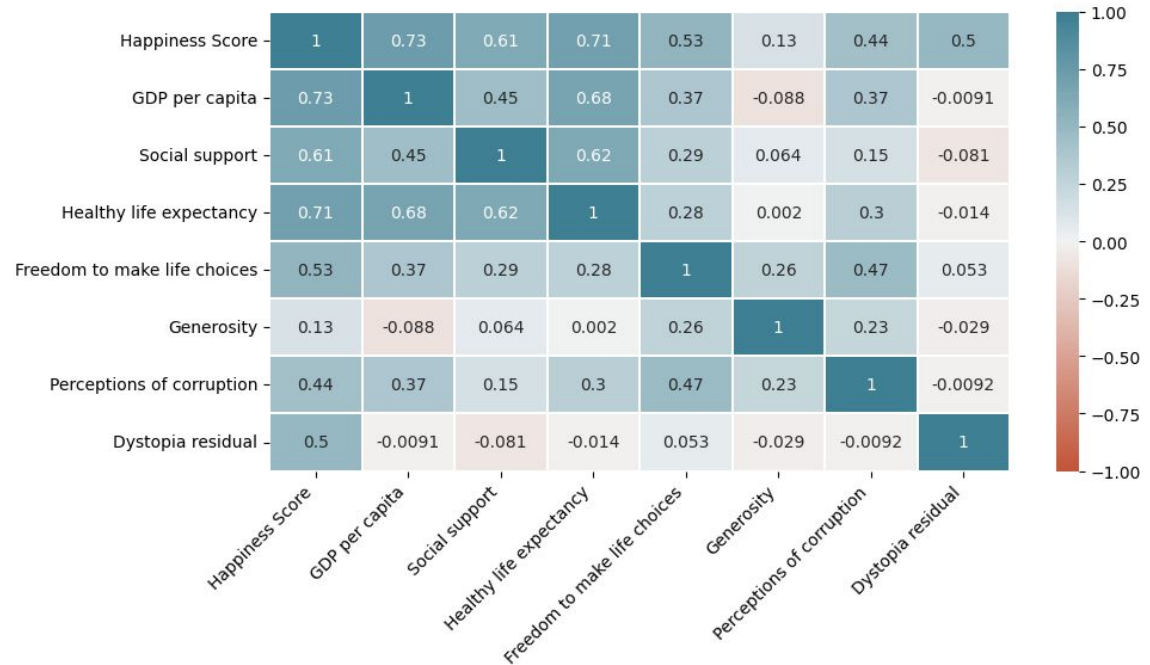
Country	2020-2021
Pakistan	-13.34%
Jordan	-5.15%
Zimbabwe	-4.68%
El Salvador	-4.53%
Lebanon	-3.93%

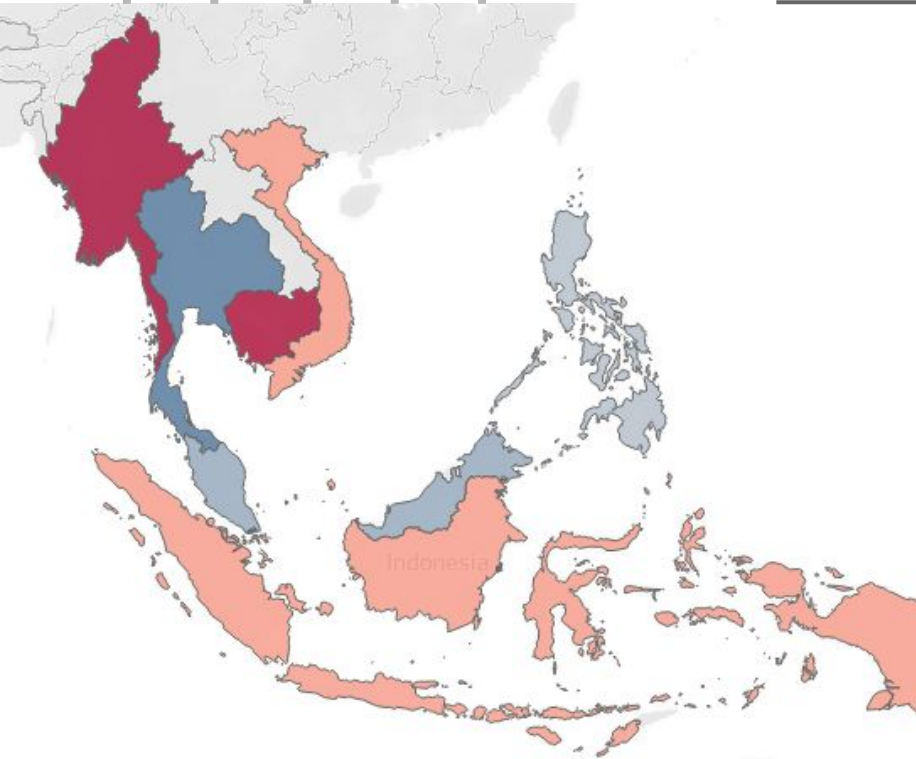
Country	2021-2022
Lebanon	-35.53%
Pakistan	-8.48%
Benin	-8.36%
Zambia	-7.70%
Jamaica	-7.28%

Most of the countries that experienced a substantial decline during the Covid-19 period came from **Southern Asia, Sub-Saharan Africa**, and the **Middle East and Northern Africa**.

The Correlation of Each Variable on the Happiness Score from 2015-2022

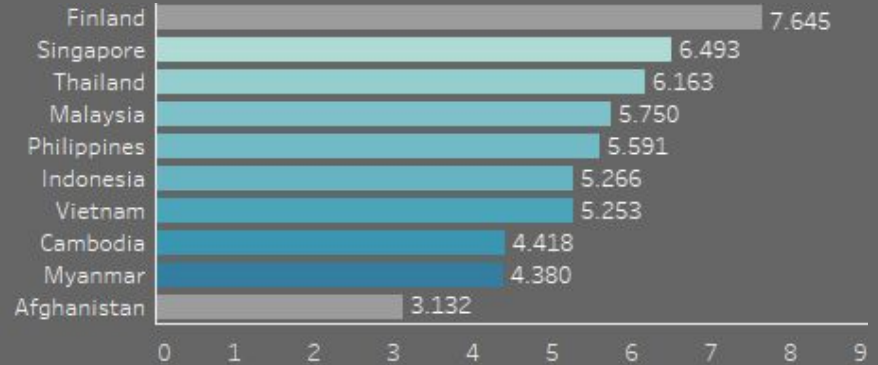
- **GDP and Healthy Life Expectancy** have the strongest correlation to the Happiness Score.





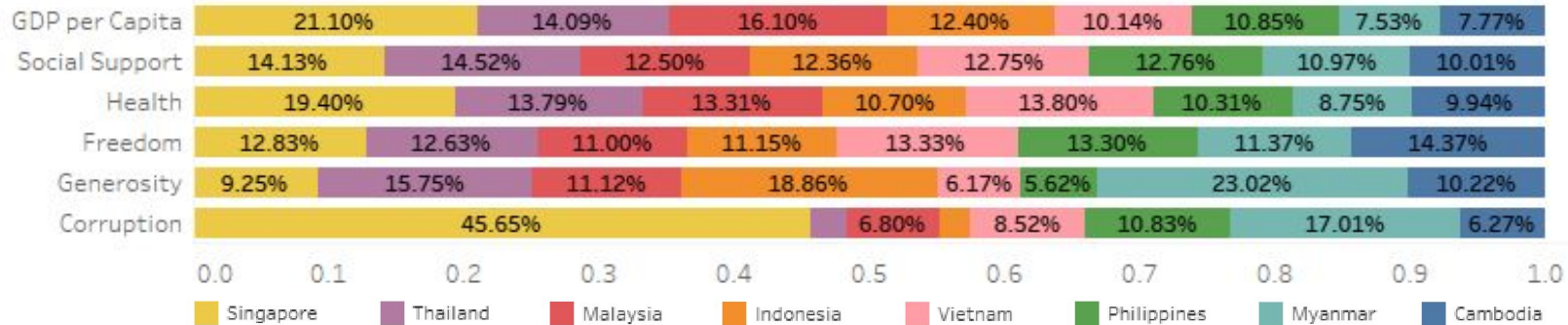
Happiness 4.380 6.493

SEA Happiness Score Compared to First and Last Rank in the World



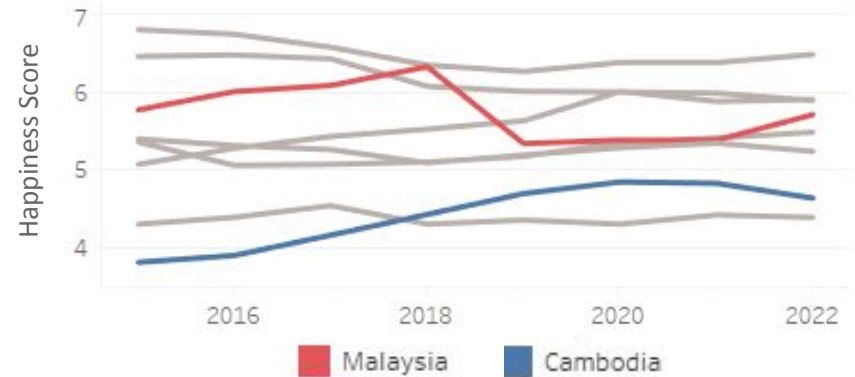
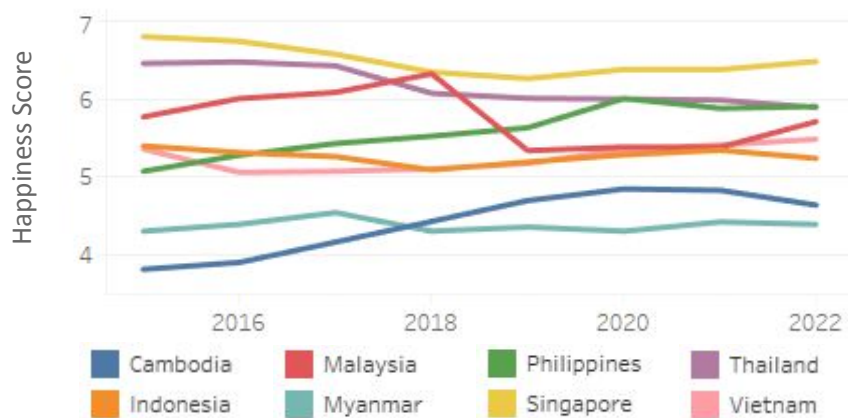
- Compared to Finland and Afghanistan, the SEA countries have a notable gap between them.
- Singapore and Myanmar which is the highest and lowest respectively in SEA come in between the world's top and bottom.

SEA Happiness Score Breakdown by Each Variables



- Singapore has the highest score in almost all variables, including “Perceptions of Corruption” which is very high compared to other countries.
- Cambodia has lower scores in most of the variables compared to Myanmar but Cambodia’s Happiness Score is higher.

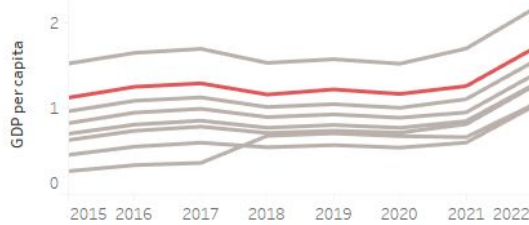
SEA Happiness Score Trend Line



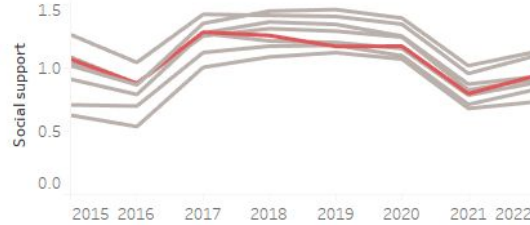
- Based on the line chart of happiness score, Malaysia experienced a significant decline in 2019 while Cambodia experienced a steady growth throughout the years.

Malaysia's Happiness Score Explained by GDP, Social Support, Healthy Life Expectancy, and Generosity

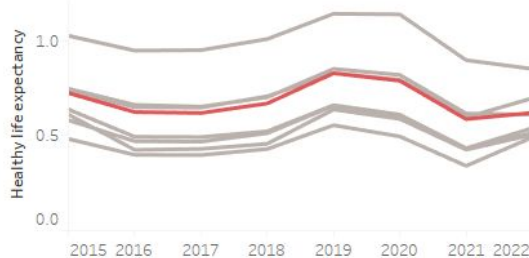
Explained by GDP per capita



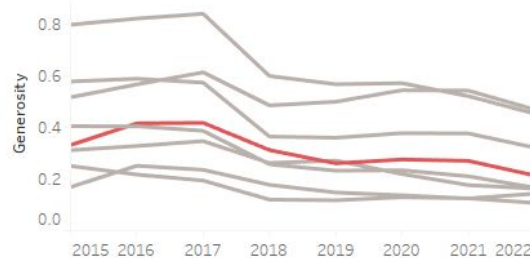
Explained by Social Support



Explained by Healthy Life Expectancy

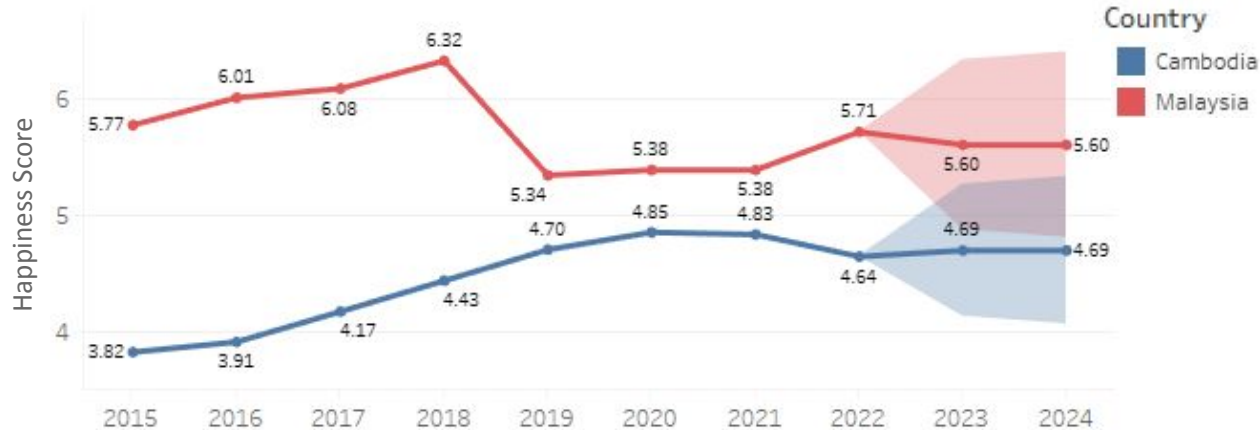


Explained by Generosity



- Based on these line charts, Malaysia experienced a decline in Social Support and Generosity, however GDP and Healthy Life Expectancy increased.
- Malaysia's crime rate in Southeast Asia is the highest. Large cities with complex social environments are more likely to breed crime than in the countryside.

Malaysia and Cambodia Happiness Score Prediction



- Cambodia's Happiness Score in 2023 is predicted to grow by 1.14% compared to 2022.
- Malaysia's Happiness Score in 2023 is predicted to decline by -1.20% compared to 2022.

CONCLUSION

- The **happiest** country is **Finland** and the **unhappiest** country is **Afghanistan**.
- The variables that have the most influence on Happiness Score are **GDP, Health (Life Expectancy), and Social Support**.
- During the Covid-19 pandemic (2019-2022) **most countries** experienced a **decrease** in happiness score, most of them are from **Sub-Saharan Africa** and **Southern Asia** countries.
- **Malaysia** experienced a **significant decline** in happiness score in 2019 due to a substantial decrease in the **Social Support** variable.



Recommendation for GDP per Capita

- Invest in education to improve human resources (SDM).
 - Provide safety and security so citizen feel safe, including doing economic activities which can have an impact on increasing GDP per capita.
-

Recommendation for Healthy Life Expectancy

- Invest in a healthy lifestyle and mental health, such as knowledge, awareness, and facilities.
 - Improve environment such as public transportation, reduce air pollution.
 - Facilitate an easy access to public health services.
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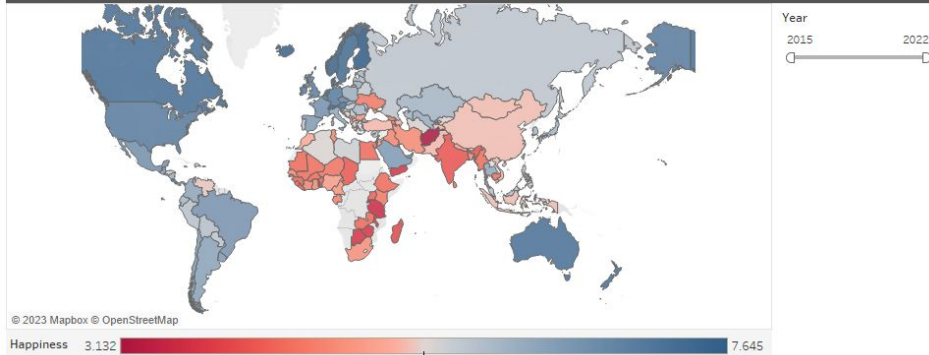
THANKS !

Do you have any questions?

DASHBOARD

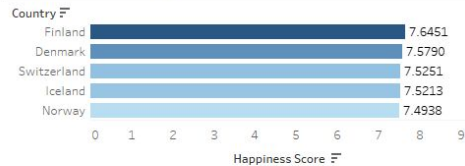
WORLD Happiness Report

WORLD Happiness Score Map



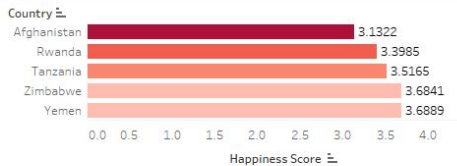
Top 5 Happiest Countries

Five Highest Average Happiness Score from 2015-2022



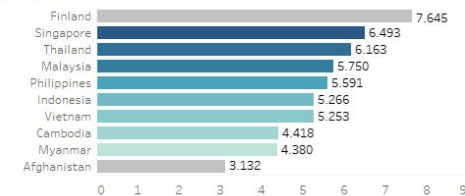
Bottom 5 Happiest Countries

Five Lowest Average Happiness Score from 2015-2022



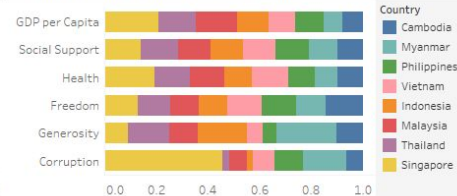
SEA Happiness Score Comparison

Happiness of SEA Countries compared to first & last rank in the world



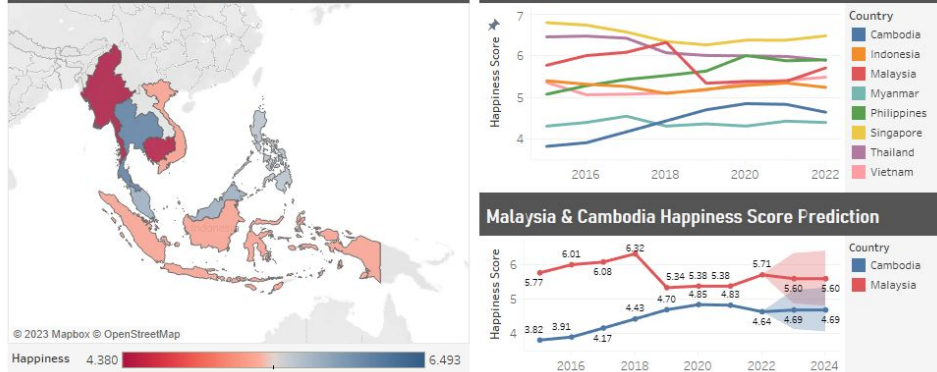
SEA Happiness Score Breakdown

Breakdown of each variable value for SEA Countries

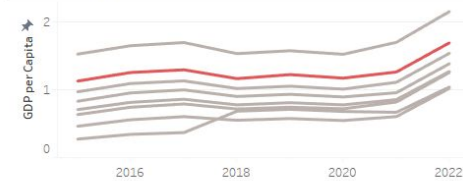


SEA Happiness Report

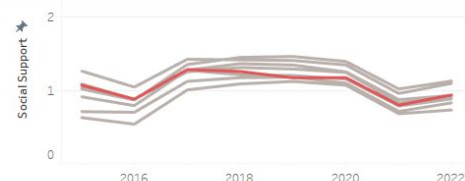
SEA Happiness Score Map



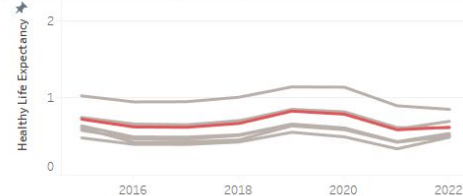
Explained by GDP per Capita



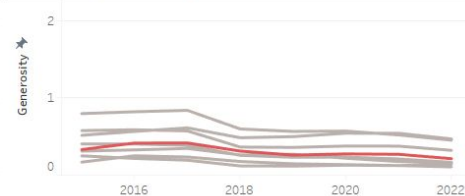
Explained by Social Support



Explained by Healthy Life Expectancy



Explained by Generosity



APPENDICES

Dataset

Script

Dashboard

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