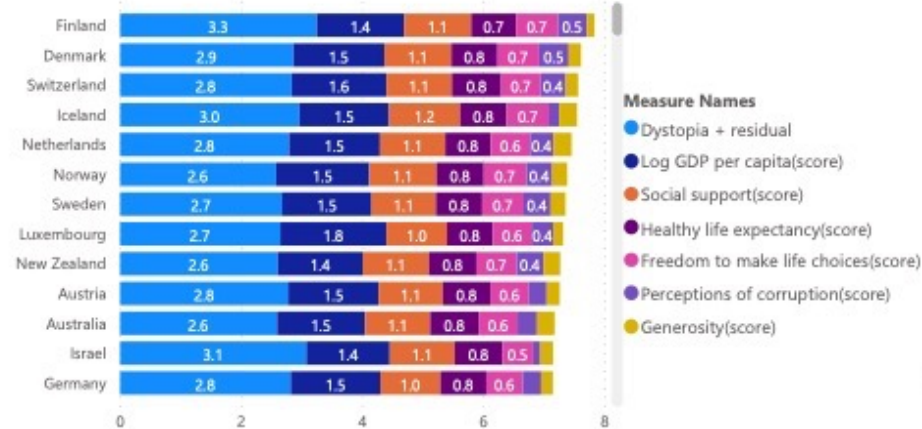


# Dashboard Overview

## World Happiness Dashboard 2018~2020

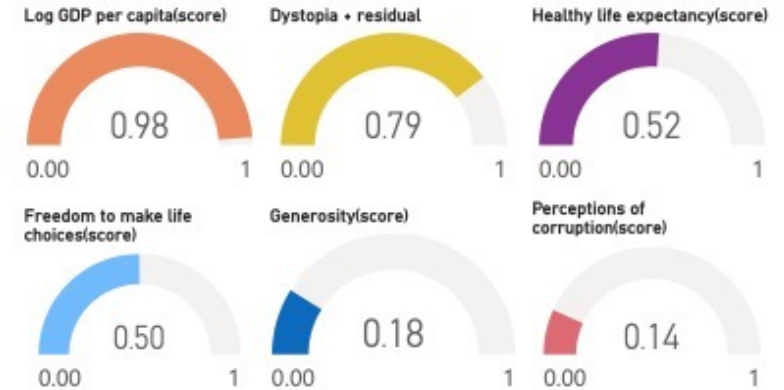
Country name  Year  Female head of government  Regional indicator  Ranking

The Variances of Countries From Highest to Lowest Happiness Score

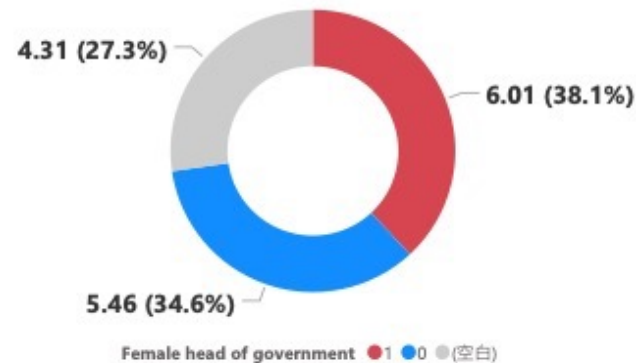


Measure Names

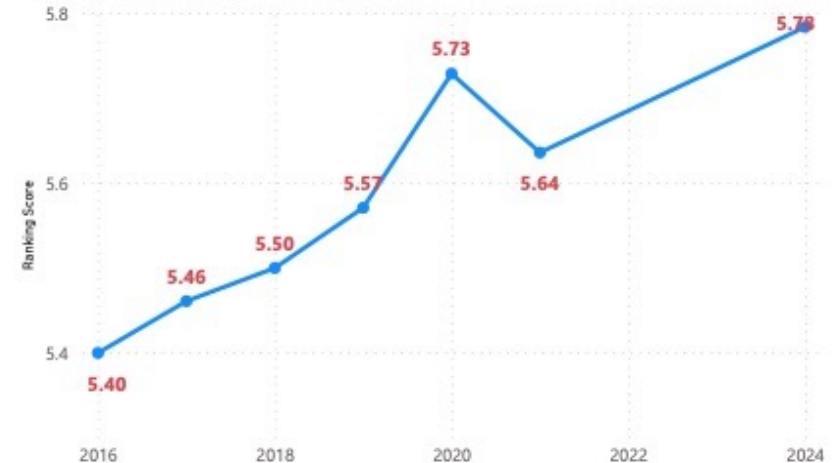
- Dystopia + residual
- Log GDP per capita(score)
- Social support(score)
- Healthy life expectancy(score)
- Freedom to make life choices(score)
- Perceptions of corruption(score)
- Generosity(score)



Female-Leading Countries Contained Higher Average Score Than Male-Leading 2018~2020

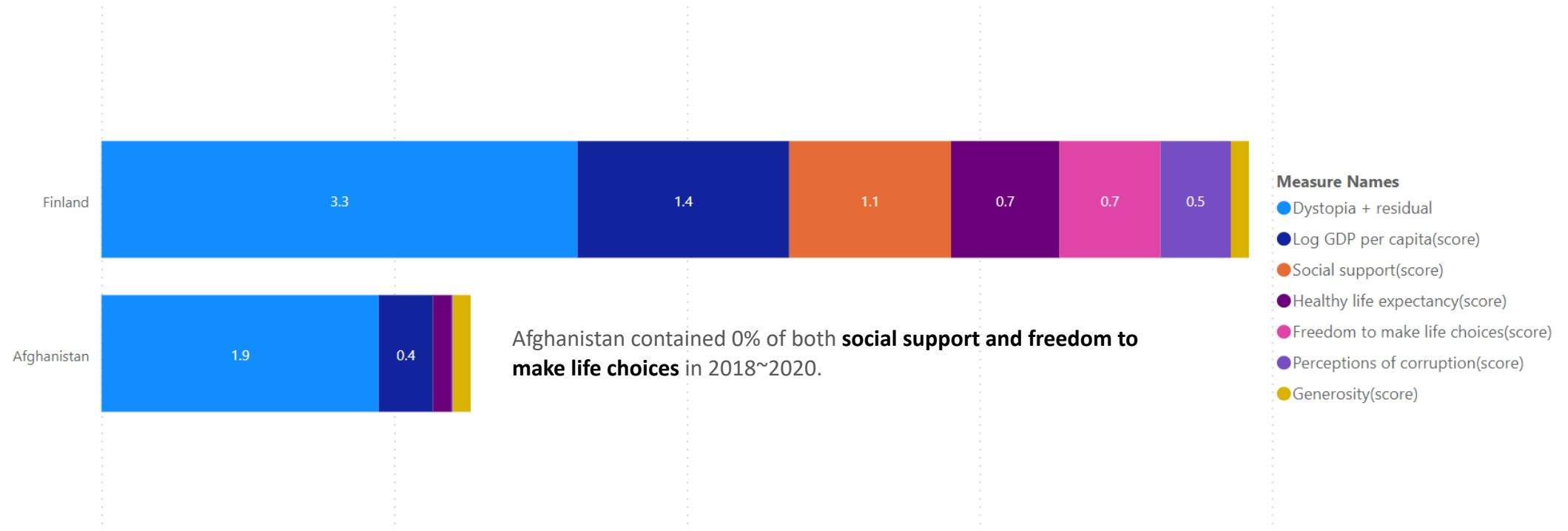


The Annual Trend of Happiness Score 2016~2024

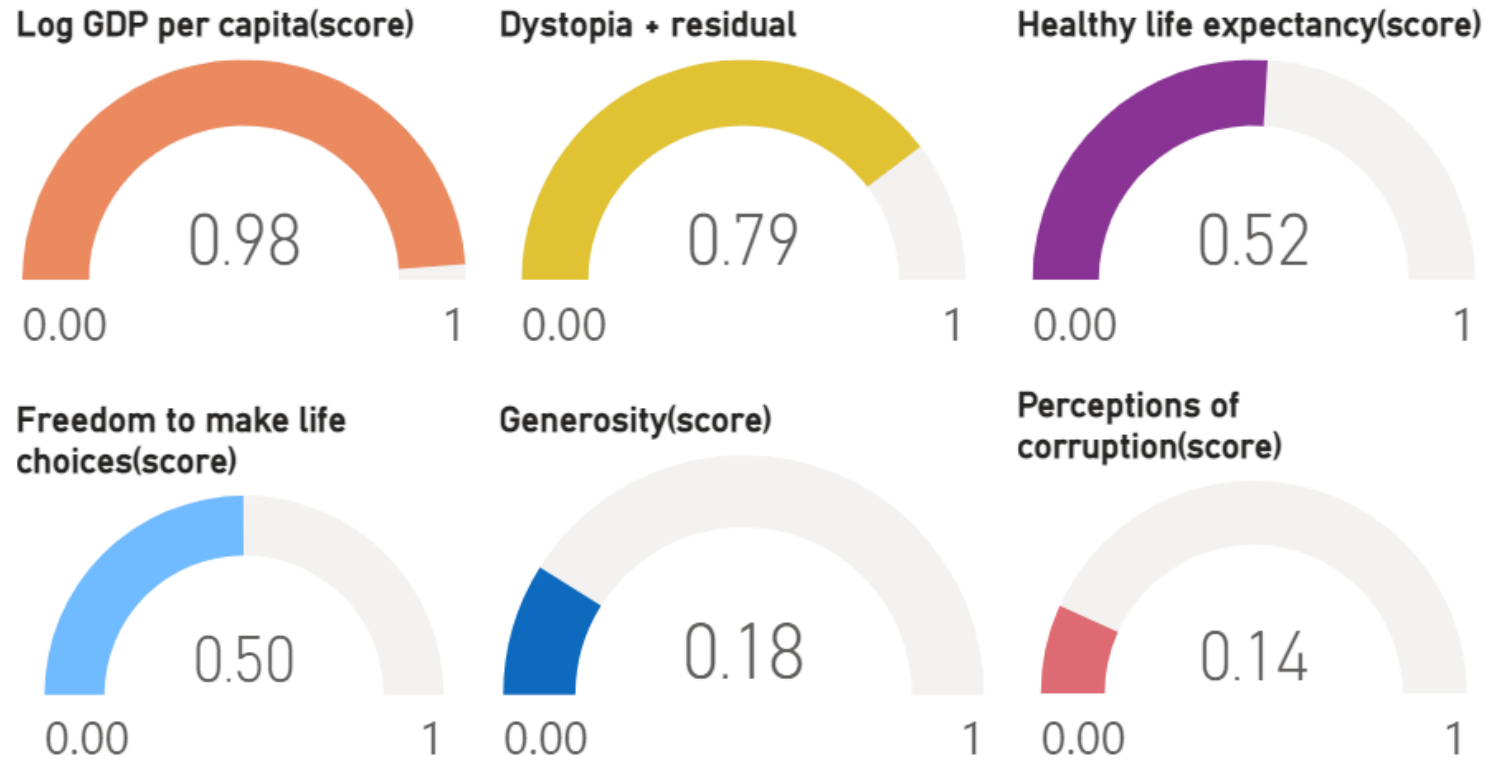


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#### THE VARIANCES BETWEEN HIGHEST AND LOWEST HAPPINESS SCORE COUNTRIES 2018~20...

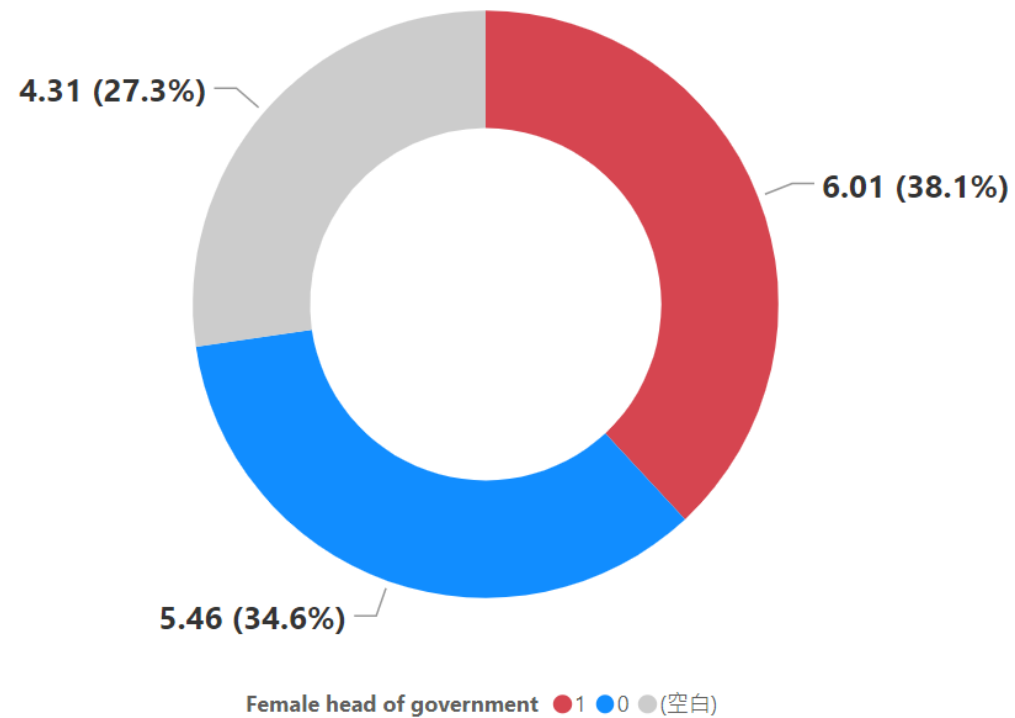


- Finland was the highest happiness country in 2018~2020.
- Afghanistan was the lowest happiness country in 2018~2020.
- The huge variance in scores was the percentages of **social support** and **freedom to make life choices** in Afghanistan are contained at **0%**.



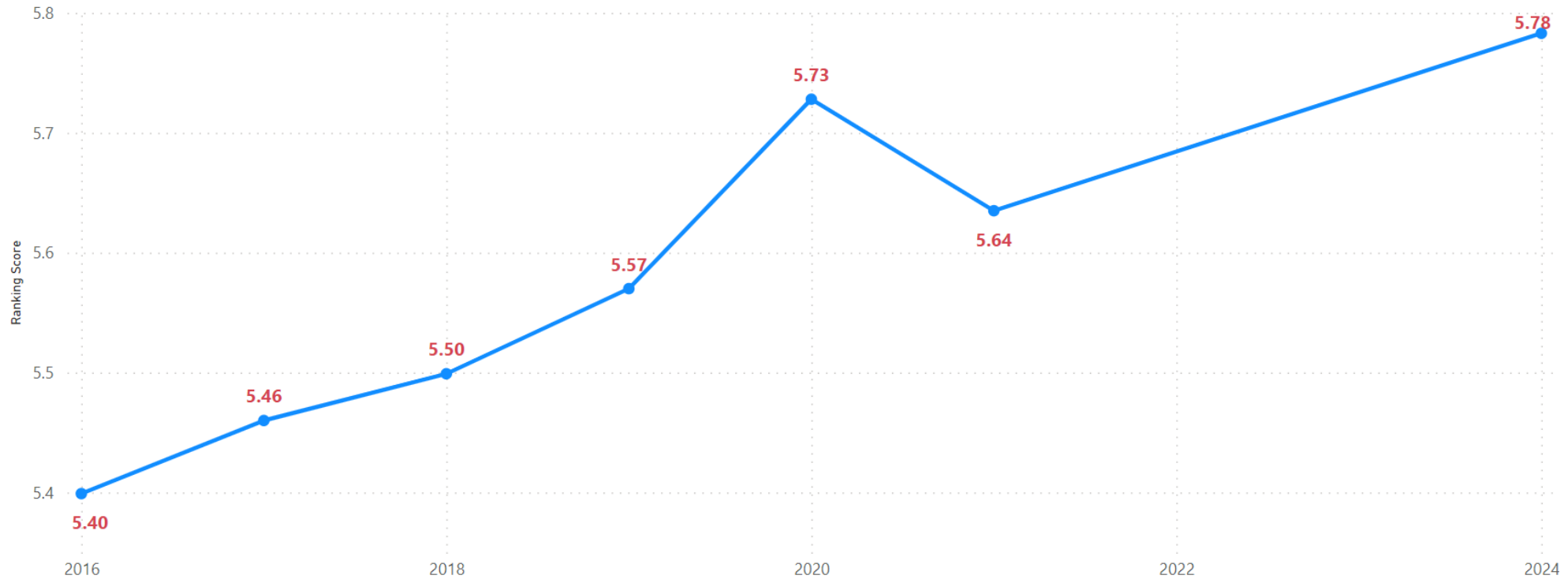
- The table revealed the average score of variables from *Happiness Scores* in 2018~2020, showing **the score relevance and impact by multi-variables**.
- **GDP** has the **highest** impact on *Happiness Scores* in 2018~2020.
- **Corruption** has the **lowest** impact on *Happiness Scores* in 2018~2020.

FEMALE-LEADING COUNTRIES CONTAINED HIGHER AVERAGE SCORE THAN MALE-LEADING ...



- **Female-leading countries** contained **higher** average *Happiness Scores* than Male-leading countries.

THE ANNUAL TREND OF HAPPINESS SCORE 2016~2024



- *Annual Happiness Score* from 2020 to 2021 experienced a sharp decline.
- Using the **exponential rate** to **predict** *Happiness Score* in **2024**.
- The prediction of *Happiness Score* in 2024 will be around **5.78**.

# The Exponential Rate Calculation

- Calculation Field #1 = 2021 Average Happiness Score

|                                                                                                                               |                       |                       |                    |                            |       |                    |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------|----------------------------|-------|--------------------|
| 1 2021 Average Score = <code>CALCULATE(AVERAGE('Annual Ladder score'[Life Ladder]), 'Annual Ladder score'[2021 value])</code> |                       |                       |                    |                            |       |                    |
| Rate                                                                                                                          | 2019~2020 Growth Rate | 2020~2021 Growth Rate | Yearly Growth Rate | Exponential Growth in 2024 | Range | 2021 Average Score |
| 1.29%                                                                                                                         | 2.84%                 | -1.62%                | 0.87%              | 5.783                      | 1     | 5.474              |

- Calculation Field #2 = Yearly Growth Rate

|                                                                                                                                                                                                                                                                                                   |                       |                       |                       |                       |                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--|
| 1 Yearly Growth Rate = <code>(SUM('Avg Score 2016~2021'[2016~2017 Growth Rate])+SUM('Avg Score 2016~2021'[2017~2018 Growth Rate])+SUM('Avg Score 2016~2021'[2018~2019 Growth Rate])+SUM('Avg Score 2016~2021'[2019~2020 Growth Rate])+SUM('Avg Score 2016~2021'[2020~2021 Growth Rate]))/5</code> |                       |                       |                       |                       |                    |  |
| Growth Rate                                                                                                                                                                                                                                                                                       | 2017~2018 Growth Rate | 2018~2019 Growth Rate | 2019~2020 Growth Rate | 2020~2021 Growth Rate | Yearly Growth Rate |  |
| 1.13%                                                                                                                                                                                                                                                                                             | 0.71%                 | 1.29%                 | 2.84%                 | -1.62%                | 0.87%              |  |

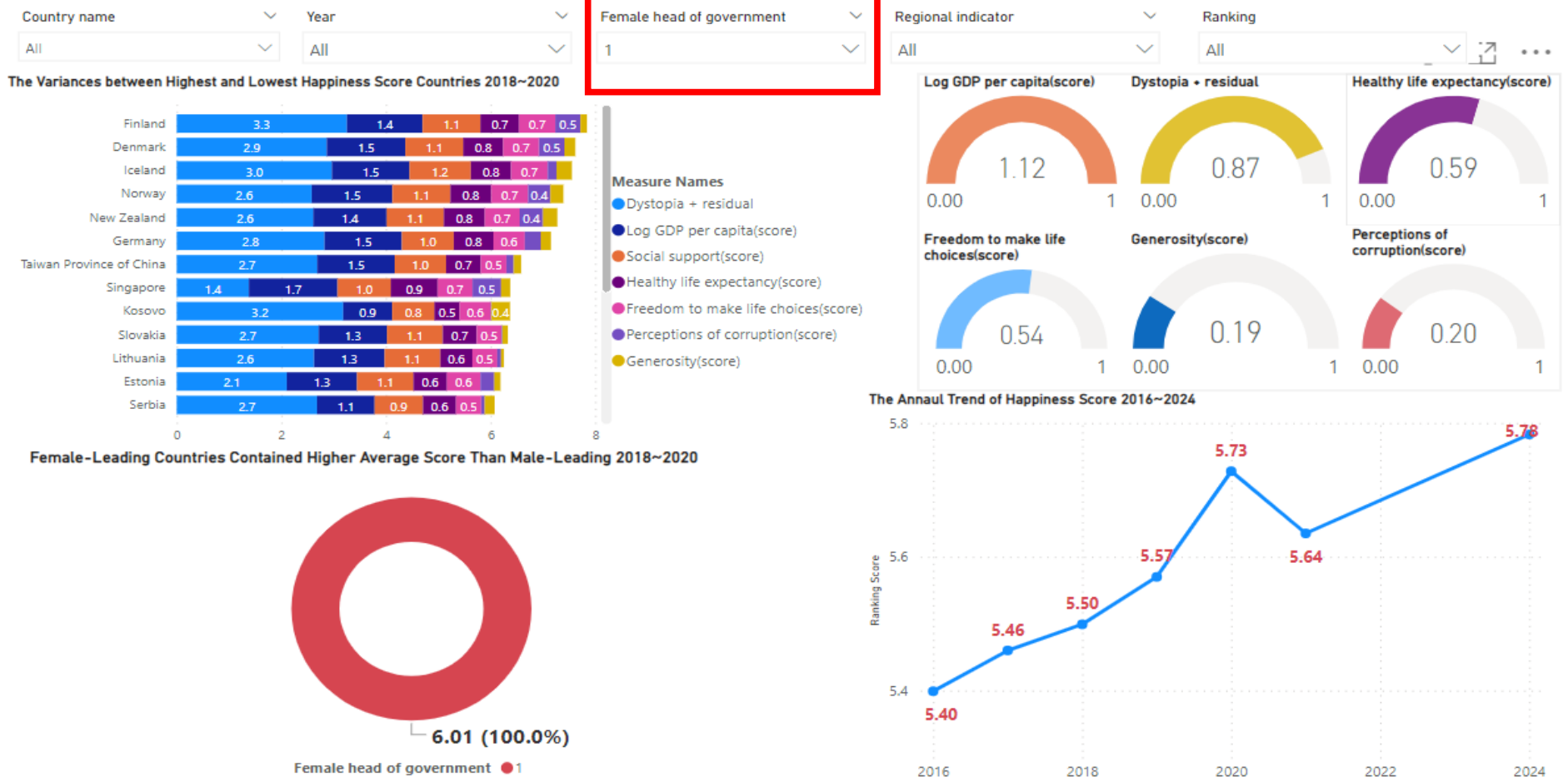
- Calculation Field #3 = Exponential Growth Rate (A function that shows an increase within a population that occurs at the same rate over time )

|                                                                                                                                                 |                       |                       |                    |                            |       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------|----------------------------|-------|--|
| 1 Exponential Growth in 2024 = <code>SUM('Avg Score 2016~2021'[2021 Average Score])*(SUM('Avg Score 2016~2021'[Yearly Growth Rate])+1)^3</code> |                       |                       |                    |                            |       |  |
| Rate                                                                                                                                            | 2019~2020 Growth Rate | 2020~2021 Growth Rate | Yearly Growth Rate | Exponential Growth in 2024 | Range |  |
| 1.29%                                                                                                                                           | 2.84%                 | -1.62%                | 0.87%              | 5.618                      | 1     |  |

# Dashboard Operations

- Sorted the Female-leading countries

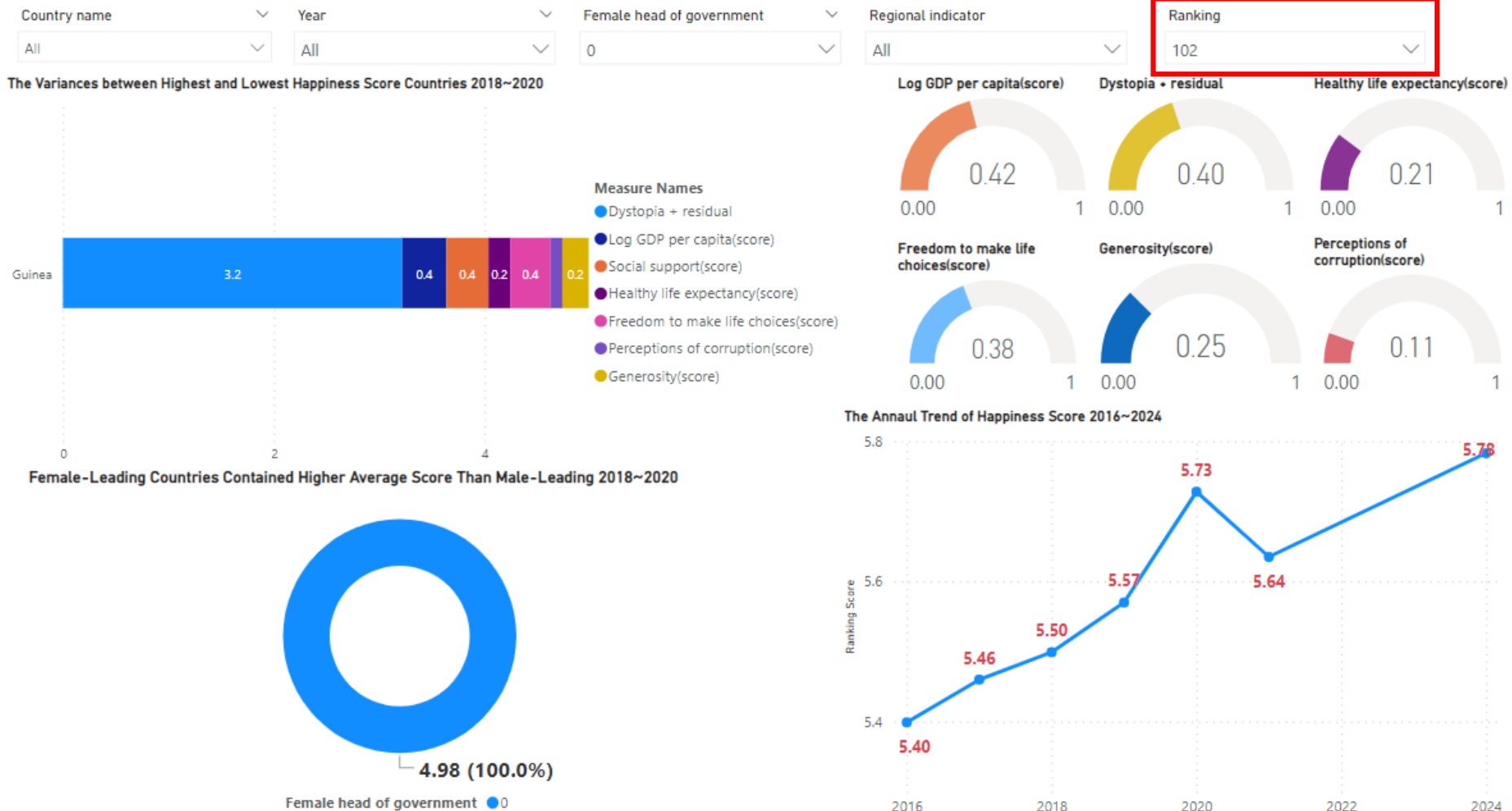
## World Happiness Dashboard



- Western Europe contained more female-leading governments than other regions in 2018~2020.

- Sorted ranking at #102

## World Happiness Dashboard

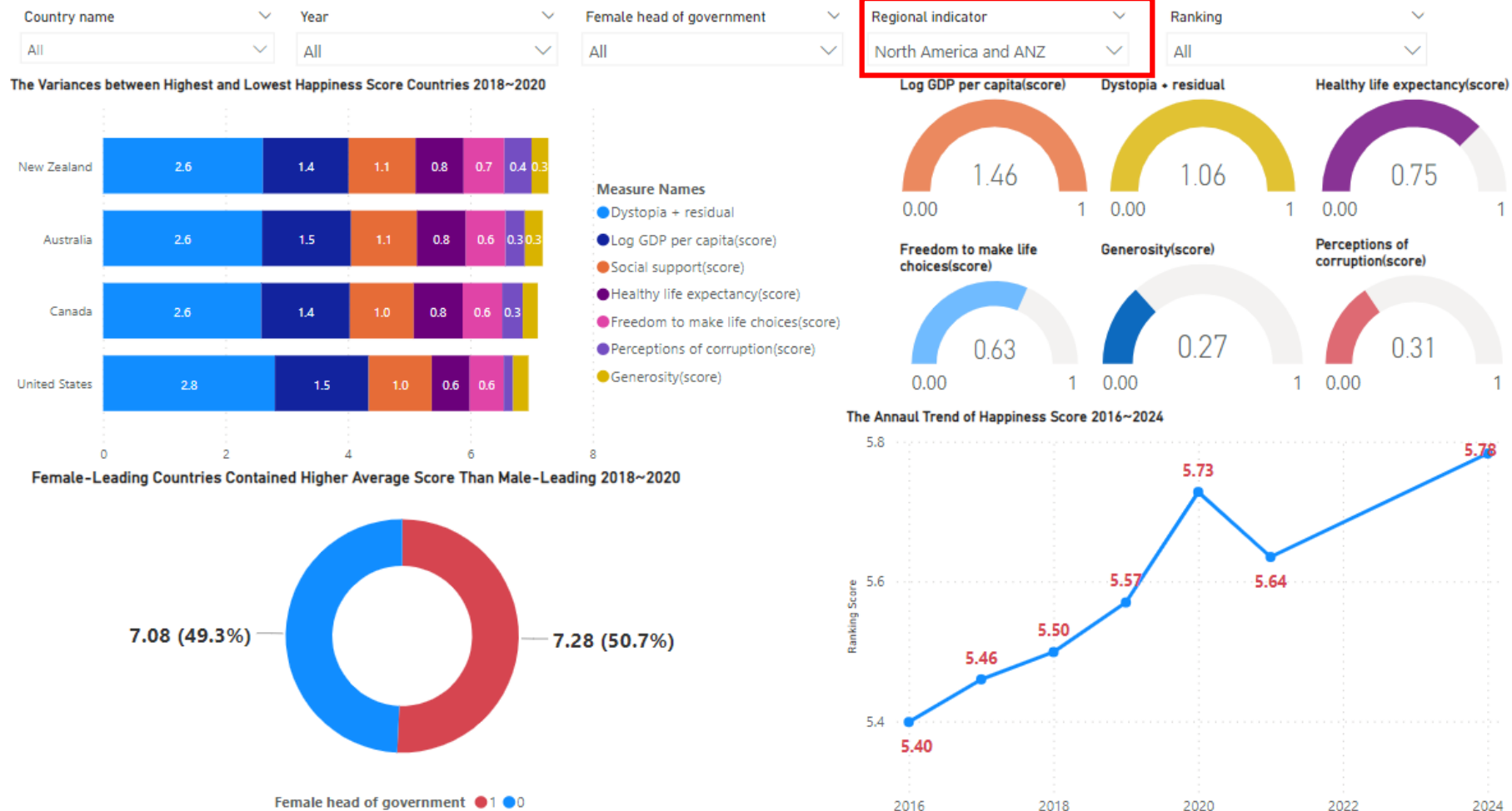


- Ranking 102 on *Happiness Score* in 2018~2020 was **Guinea**.
- The leader of the country was **male** in 2018~2020.



- Sorted the regional value at #North America and ANZ

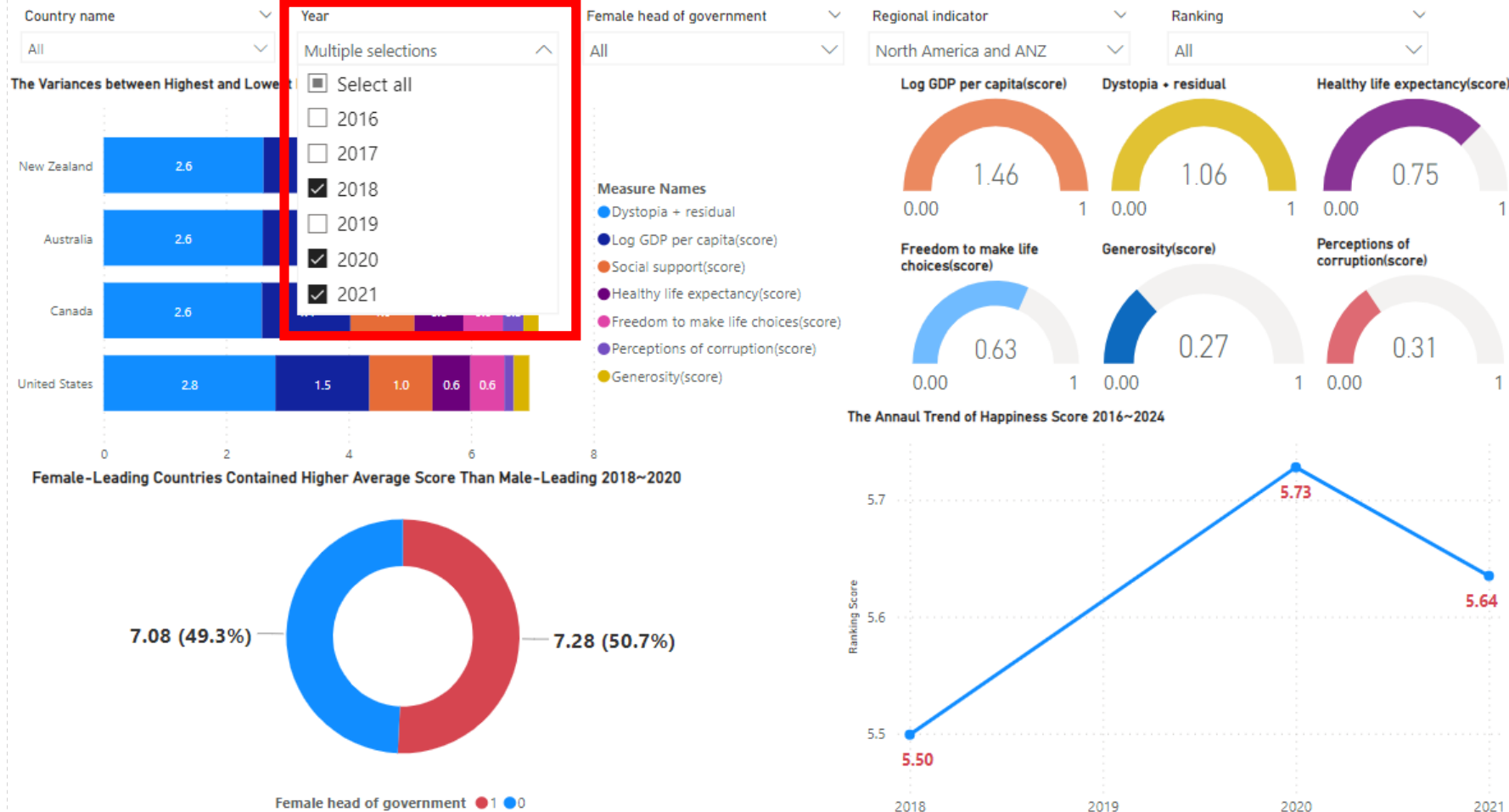
## World Happiness Dashboard



- People in **North America and ANZ region** highly considered the **GDP, freedom to make life choices, and healthy life expectancy** as the evaluations of Happiness Score in 2018~2020.

- Sorted year in 2018 / 2020 / 2021

## World Happiness Dashboard



- The annual trend of happiness score went down from 2020 to 2021.

# Conclusion

- **Finland and Afghanistan** were the **highest and lowest** happiness country in 2018~2020, and the huge variance in scores was that the percentages of **social support** and **freedom to make life choices** in Afghanistan are contained at **0%**.
- **GDP** has the **highest** impact and **Corruption** has the **lowest** impact on *Happiness Scores* in 2018~2020.
- **Female-leading countries** contained **higher** average *Happiness Scores* than Male-leading countries.
- *Annual Happiness Score* **from 2020 to 2021** experienced a sharp decline.
- The prediction of *Happiness Score* in 2024 will be around **5.78**.

## Recommendation:

- The country should treat **healthy life expectancy and freedom to make life choices as serious** to improve *Happiness Scores*.
- **A good GDP planning** helps to improve overall happiness scores significantly.
- The sharp decline in *Happiness Scores* from 2020 to 2021 can be due to **the shock of the COVID-19 pandemic**.