# Investigating the Relationship Between Economic Resources and Life Expectancy to Inform Strategic Decision-Making

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### Overview

- This Project look at data from World Development Statistics
- The dataset chosen from there website and this project for analysis will be gni\_per\_cap\_atlas\_method\_con2021.csv and life\_expectancy.csv.

•	Feature	Туре	Dataset	Description
	country	object	merged	Name of the countries (Japan, United Kingdom, and Nigeria selected)
	year_gni	int	merged	Gross National Income for the specified year
	life_gni	float	merged	Life expectancy for the specified year

### Understanding the problem

#### Main point

Why investigate the relationship between economic resources and life expectancy?

Provide valuable insight that positively impact economic development and health of a population (SDGs initiatives)

#### How?

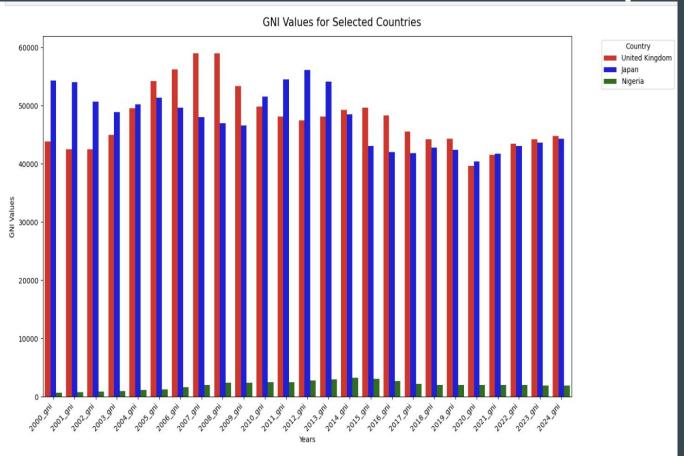
What is the plan?

Correlation assessment, analyze if there are global disparities in the relationship, look at patterns and trend in data that indicate how change in economic resource might influence life expectancy

#### Visualization Method

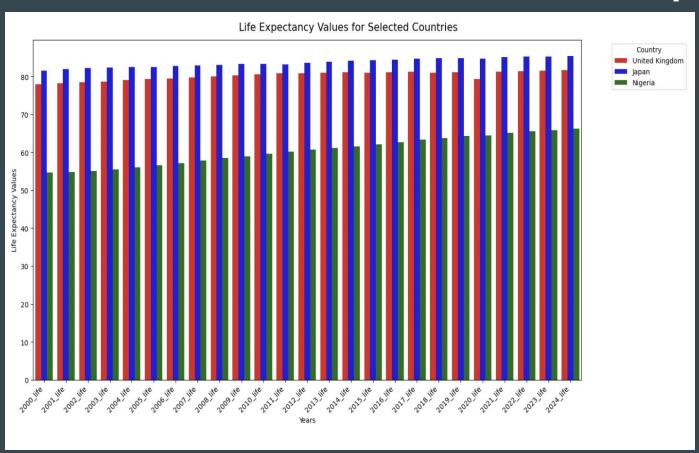
heatmap and bar graph

## Visual Data continued: GNI Bar plot



- Highest gni is
  United
  Kingdom in
  the year 2007
  and 2008
  with a value
  of 59000
- Lowest gni is
  Nigeria in the
  year 2000
  with a value
  of 705

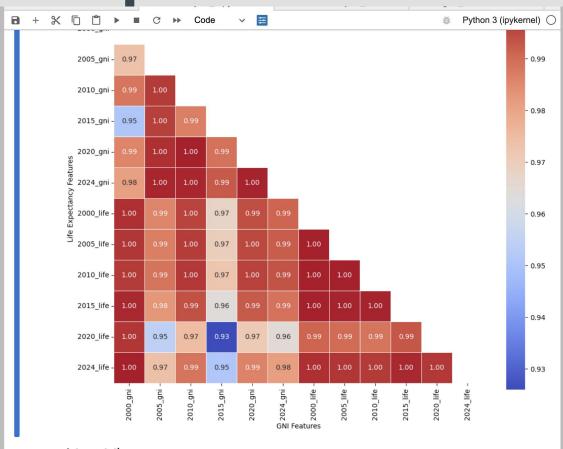
### Visual Data continued: Life Bar plot



- The country
  with the highest
  life expectancy
  is Japan in the
  year 2024 with a
  value of 85.4.
- The country with the lowest life expectancy is Nigeria in the year 2000 with a value of 54.6.

# **Visual Data Heatmap:**

Scale of correlation coefficient	Value
$0 < r \le 0.19$	Very Low
	Correlation
$0.2 \le r \le 0.39$	Low Correlation
$0.4 \le r \le 0.59$	Moderate
	Correlation
$0.6 \le r \le 0.79$	High Correlation
$0.8 \le r \le 1.0$	Very High
	Correlation



### Conclusion

- ★ +Sustainable Development goals
- ★ +Robust relationship betweenGNI and Life expectancy
- ★ Thanks for your time!