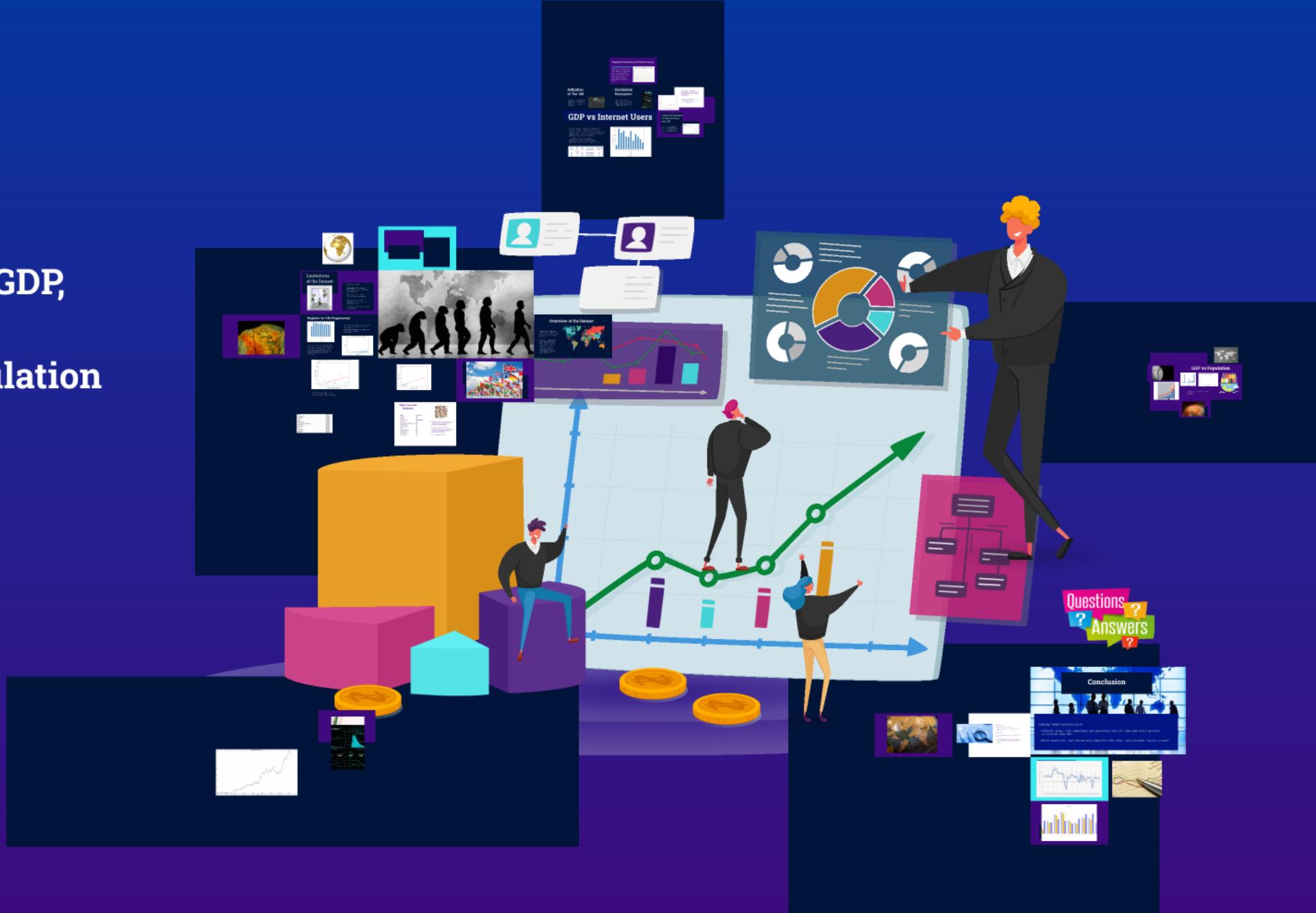


Connecting the Dots: GDP, Internet Access, Life Expectancy and Population

Presented by:
David Williams
Svetlana Kachina
Ilknur Toptas
Karla Lopez Marin



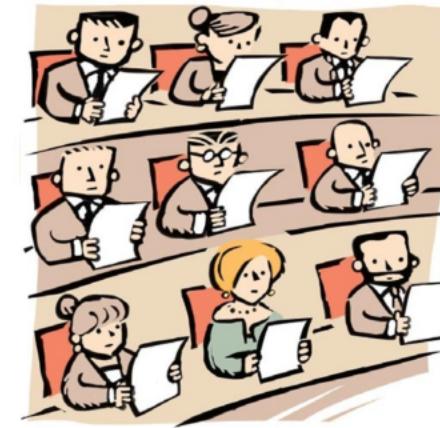
Overview of the Dataset

- Global GDP trends and their relationship to a few key socio-economic factors.
- Dataset - summarizes GDP, internet users, life expectancy and population. Also, exhibits women's literacy rate and exportation rate for some countries.



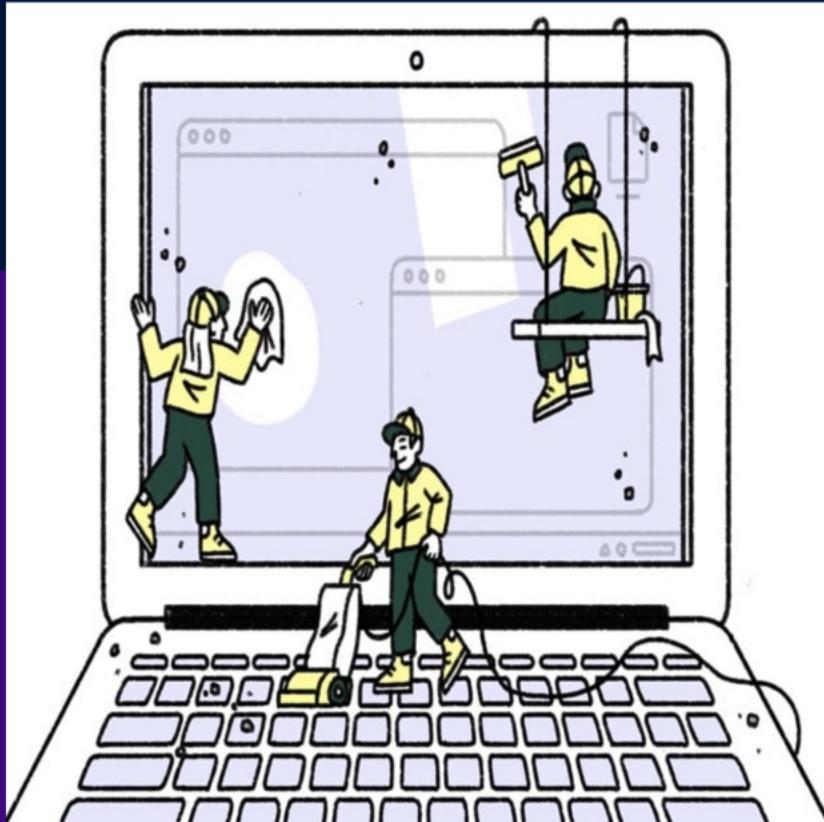
Objectives and Audience

Region	Region Code
East Asia	EA
Europe	EU
North America	NorthAmerica
South Asia	SS
North Africa & Southwest Asia	ME
Southeast Asia	SE
South America	SA
Russia	RU
Subsaharan Africa	AF
Middle America	MA
Austral Realm	AU
Pacific Realm	PA



- Objective - is there a correlation between GDP and internet penetration, life expectancy and population?
- Audience - students, researchers, development initiatives, and institutions interested in global development or socio-economic trends.
- Focus – Regions and GDP.

Limitations of the Dataset



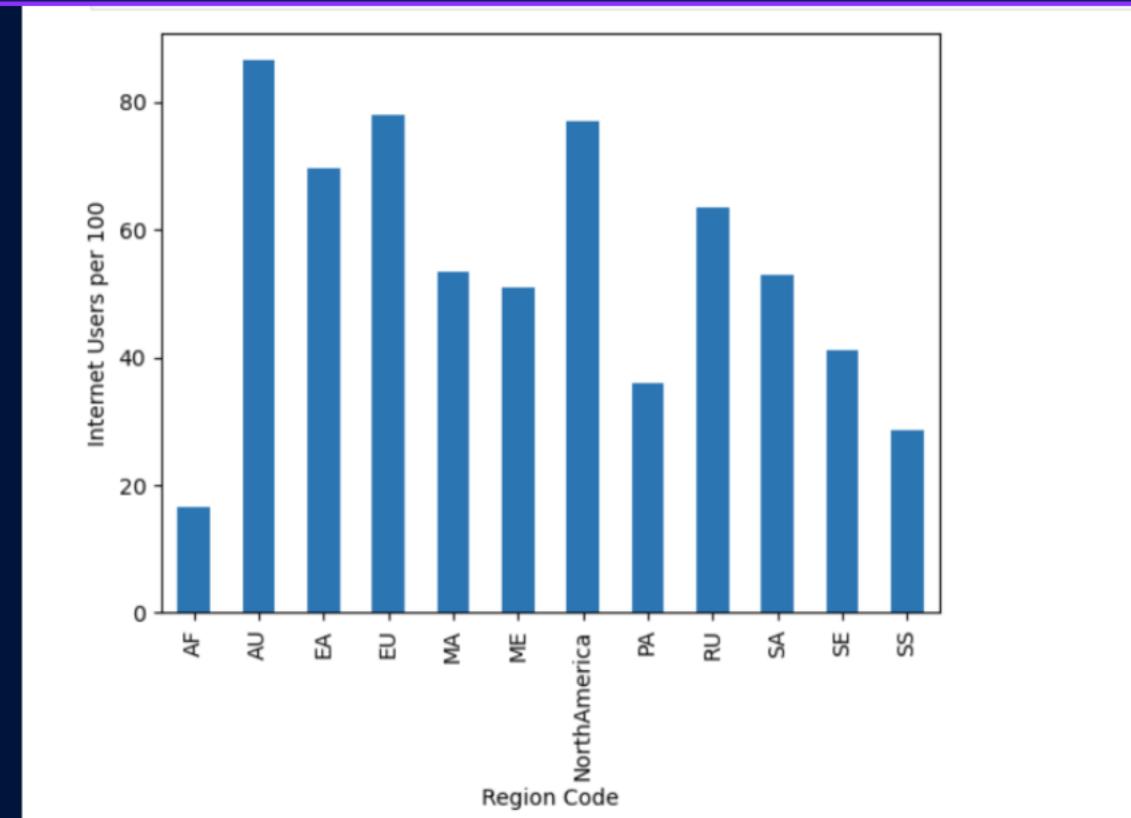
- Snapshot of 2015.
- Highlights GDP, internet penetration, life expectancy and population.
- Missing values - women's literacy and exportation.
- Regions vary and lack granularity – nuances to specific areas.
- Focused on cleaning to ensure consistency.

GDP vs Internet Users

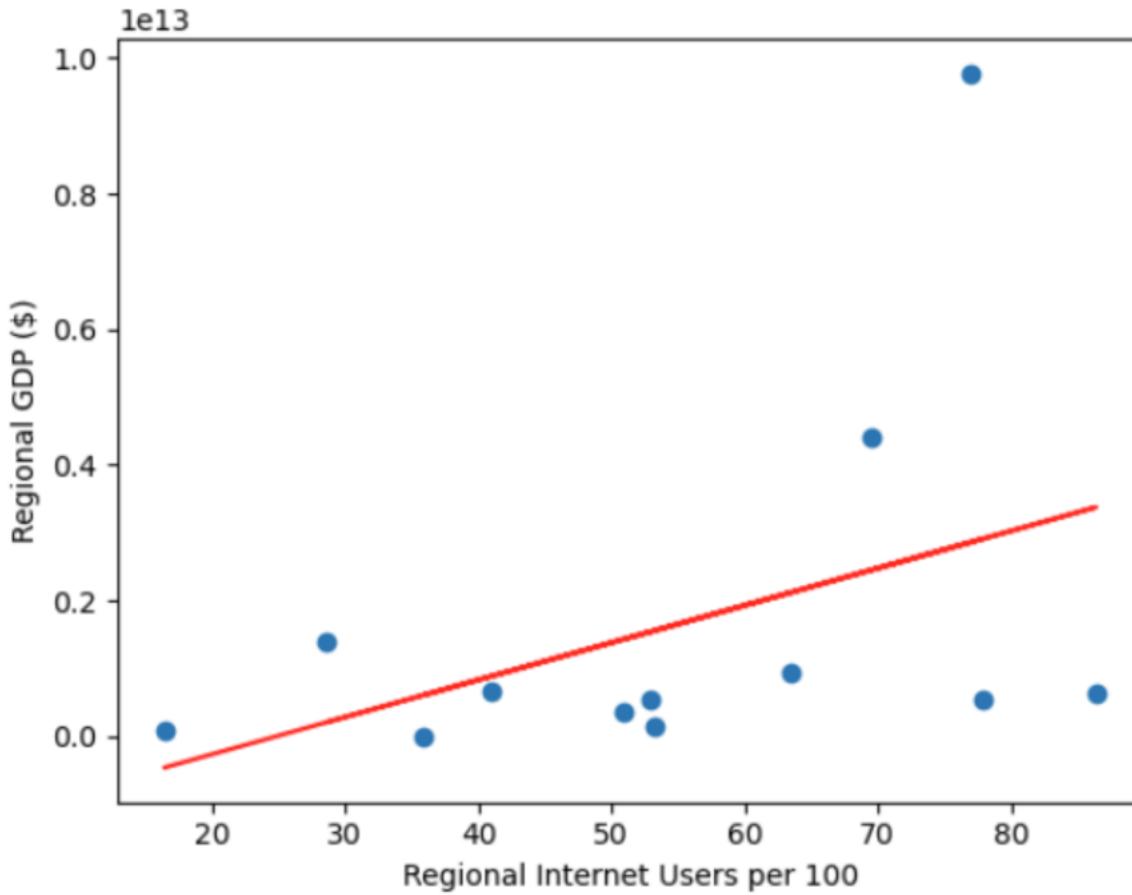
Internet access serves as a catalyst for economic growth; countries with higher connectivity often see improved productivity and GDP rates. This section explores those significant patterns in detail.

- Per 100 users in 13 regions.
- Country vs. Region inconsistency.
- Top 4 GDP countries vs. Internet use.

Country Name	Region Code	Country Code	GDP, PPP (current international\$)	Internet users (per 100 people)
China	EA	CHN	19,524,348,171,415	50.3
USA	erica	USA	17,946,996,000,000	74.6
India	SS	IND	7,982,527,568,328	26
Japan	EA	JPN	4,738,293,560,882	93.3

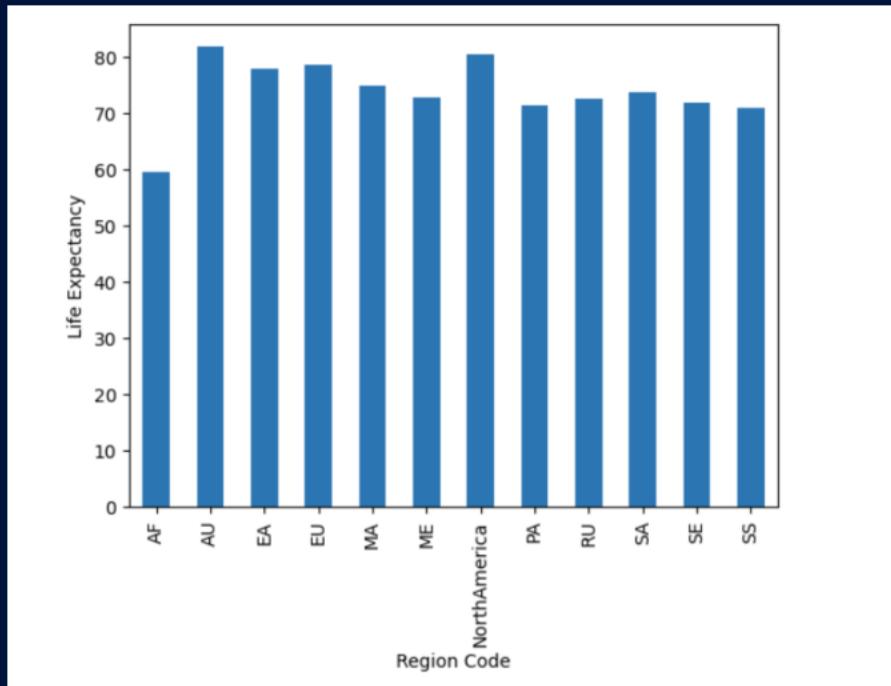


The correlation between Regional Internet Users per 100 and the GDP is 0.42



- Positive correlation
- Potential GDP growth: Win-Win
- Census standards on data gathering

Regions vs Life Expectancy

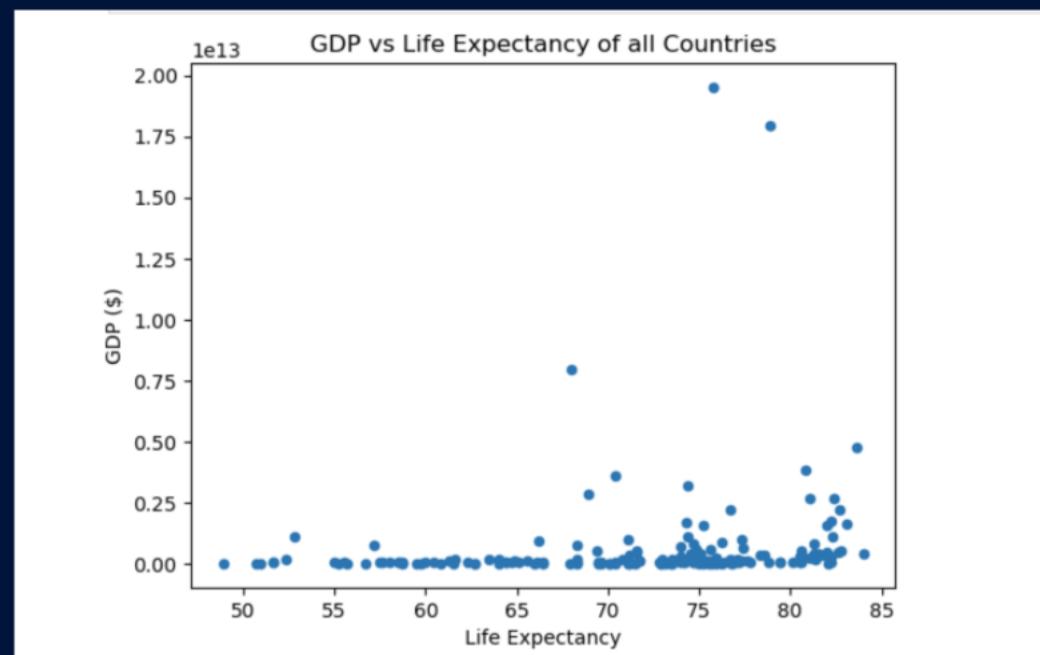


There are clusters of countries with life expectancy between 70 and 85 years where GDP is concentrated at moderate levels, indicating that higher life expectancy generally corresponds to stronger economies, though not universally.

Regional Variation; AU (Australia) and EU (Europe), AF (Africa) and SS (Sub-Saharan Africa)

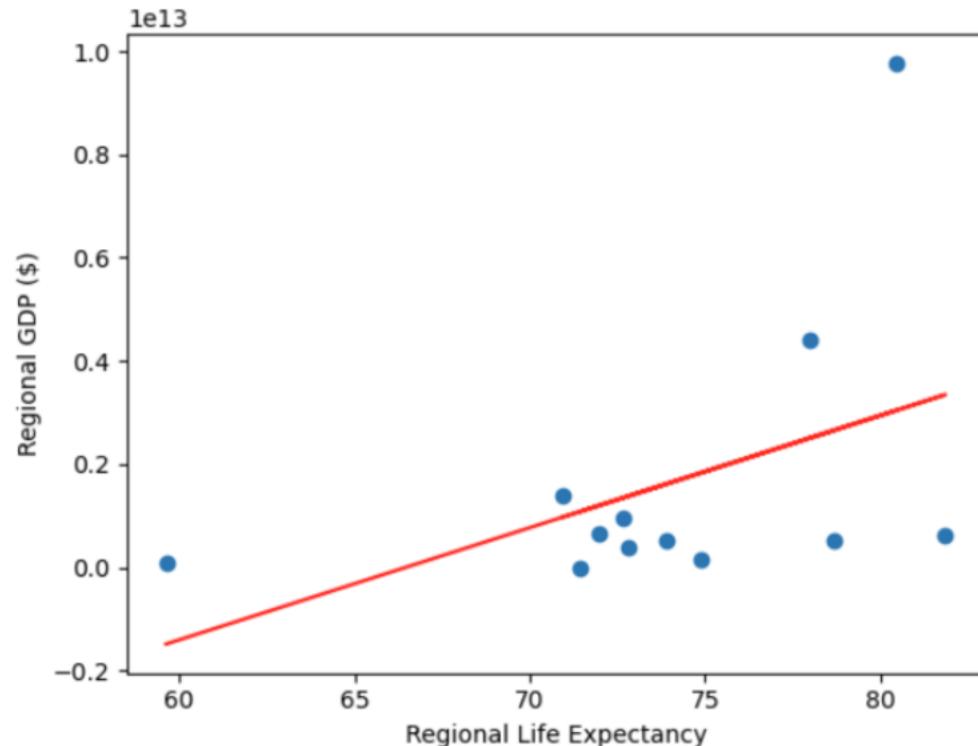
Middle-Income Regions; ME (Middle East) and PA (Pacific Asia)

North America.



Statistical Analysis of GDP and Life Expectancy Correlation

The correlation between regional life expectancy and the GDP is 0.45



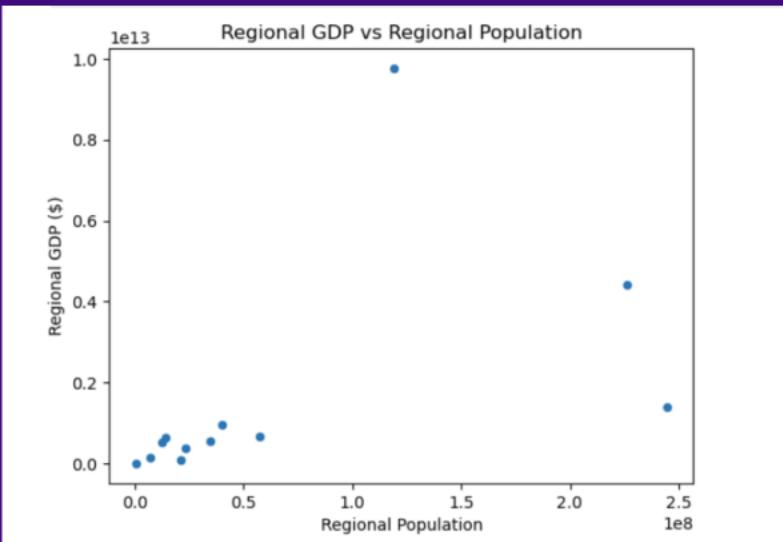
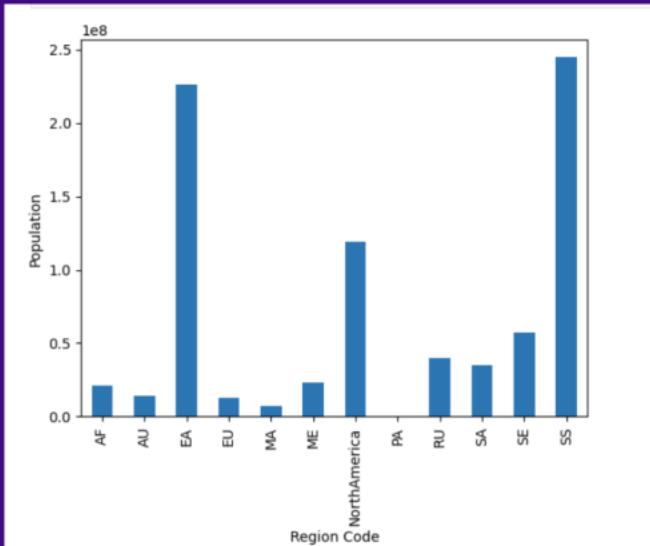
The moderate correlation suggests life expectancy alone does not dictate GDP. Other elements, such as infrastructure, education, political stability, and natural resources, play crucial roles.

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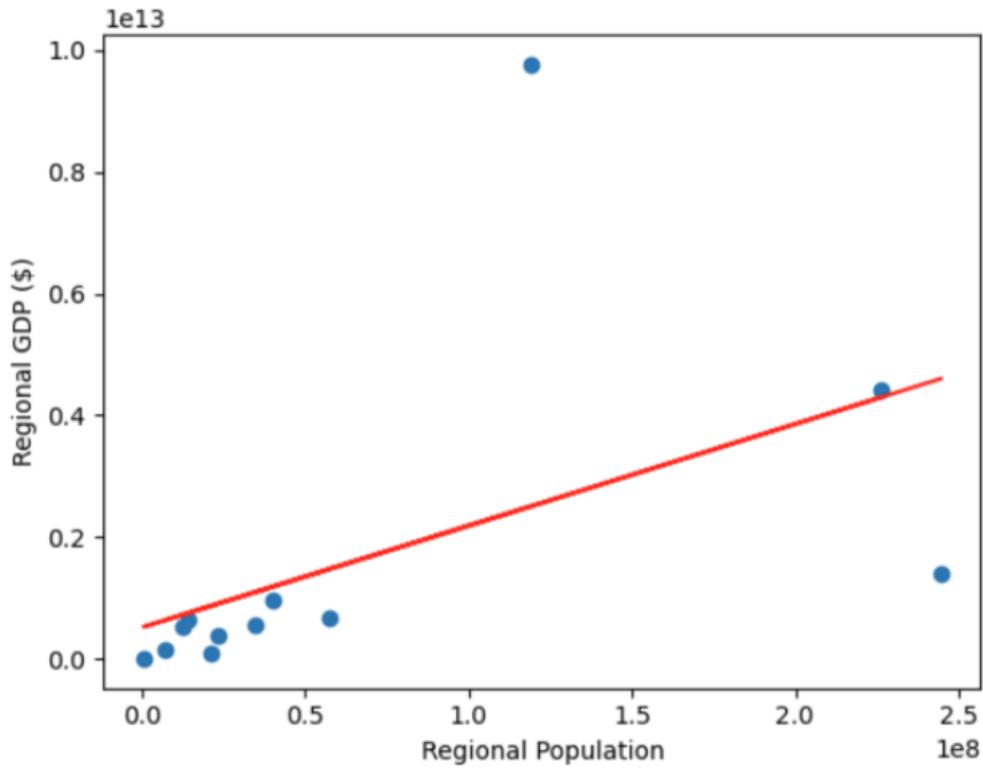


GDP vs Population



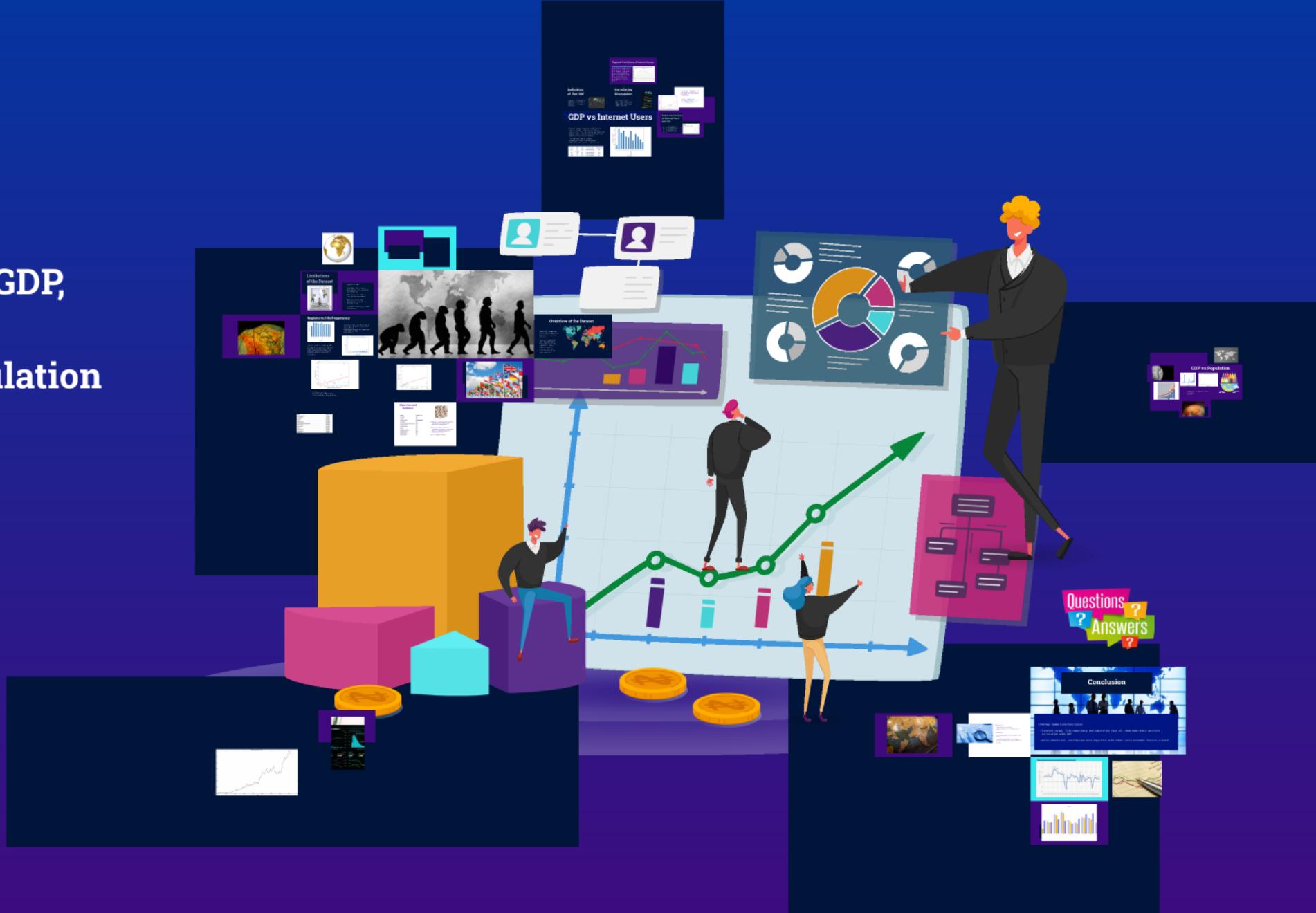
- Regions with the highest and lowest population.
- Outliers

The correlation between regional population and the GDP is 0.5



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Conclusion

Findings Summarized/Conclusion

- Internet usage, life expectancy and population size all show moderately positive correlation with GDP.
- While beneficial, each become more impactful with other socio-economic factors present.



Future analysis:

- Widen scope to include several years
- Include other socio-economic factors e.g. Investment in economy, etc.

Final mention:

- Snapshot provides a glimpse of ways in which GDP can be boosted.
- Having multiple complimenting factors, i.e. internet penetration, higher life expectancy, and a larger population, among others, will create an economy favorable for expansion.



Questions

Answers

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