



# **World Economic Indicator Dataset Analysis**

How a country can attain sustainable growth?

# Factors on which a country should focus on to sustain GDP/Capita.

1. Last 13 years of data for 6 of the regions was taken and we tried to study the impact different factors have on a nations GDP.

2. The following are some of the data points that helped us to perform the analysis:

GDP/Capita

Health Expenditure

Lending Interest Rate

Energy Usage/Capita

CO2 Emission/Capita

Birth Rate

Infant Mortality Rate

Internet Usage

Life Expectancy for Male & Female

Population of a Country

Tourism Inbound/Capita

Tourism Outbound/Capita

Business Tax rate

Ease of Doing Business

Time to do Tax

Mobile Phone Usage

3. We saw that almost half of the dataset given to us is belonging to **Africa** and **Europe** Region.

# Factors on which a country should focus on to sustain GDP/Capita.

4. Countries in Europe region have the highest GDP/Capita compared to other regions, followed by The Americans. Africa region despite having the highest data count has very low GDP/Capita.
5. We can see that the countries who spend more on their Health Expenditure/Capita are having a very high GDP/Capita.
6. Countries with more Energy Usage/Capita are also the one with higher GDP/Capita compared to other countries with lower Energy Usage.  
Same trend can also be seen with CO<sub>2</sub> Emission/Capita. This may be due to the fact that more energy is required for better production in factories, etc. which ultimately results in more CO<sub>2</sub> Emission by these factories.
7. Higher Internet and Mobile Phone Usage of a country seems to boost that country's GDP/Capita.

# Factors on which a country should focus on to sustain GDP/Capita.

8. Lower Birth Rate and Infant Mortality Rate also contribute to higher GDP/Capita for a country. But in the case of Life Expectancy for Male & Female, higher these features are, the higher is the countries GDP/Capita.
9. Countries which have less Population under 14 years of age, have higher GDP/Capita and those having more working population, i.e., above 15 years of age, tends to have higher GDP/Capita.

We can also see that there is no strong relationship between the total population of a country and its GDP/Capita, but with low confidence we can say that lower total population countries have higher GDP/Capita than other countries.
10. It also seems like when most of the population resides in Urban areas, they contribute more to the GDP/Capita , as oppose to citizens residing in Rural areas.

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11. Tourism sector also plays a very vital role to boost a nation's GDP/Capita. Higher the income from International tourists visiting a country, more is the GDP/Capita of that nation.

Similar trend can be noted when citizens of a nation spend more amount on tourism, when visiting other nations, which in turn indicate that they have a high GDP/Capita. This can be due to the fact that when GDP/Capita of a nation is high, their citizens tend to spend more on travelling.
12. On the Business sides of things, we cannot say this with full confidence due to the relation between them not being much high, but when a nation's Lending Interest, Taxes on businesses, Average days it takes for anyone to start a business and Hours they spend on preparing & doing taxes is low, those nation's seem to have a higher GDP/Capita than other nations.

Less Ease of Doing Business Index also contribute to the higher GDP/Capita of a nation, but since the data for the same given to us is only for 1 year, i.e., 2012, we cannot conclude it for sure.

# Factors on which a country should focus on to sustain GDP/Capita.

Africa has the highest data count

<b>Region</b>	<b>COUNTA of Region</b>
Africa	689
Asia	442
Europe	624
Middle East	169
Oceania	195
The Americas	572

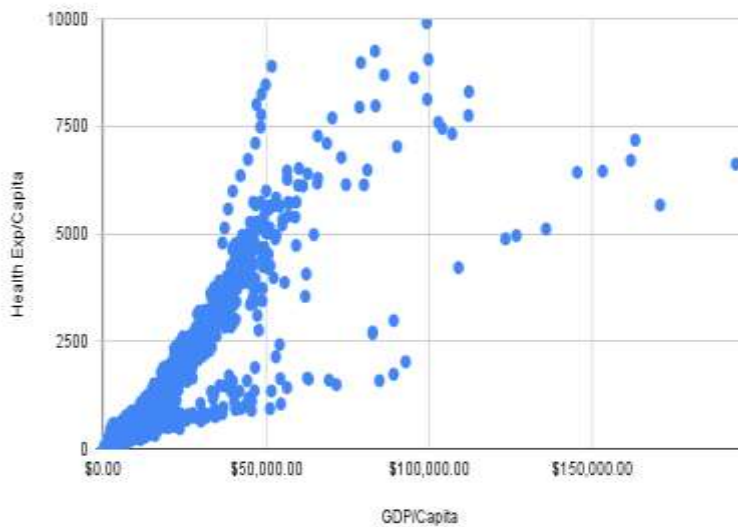
Europe has the highest Avg. GDP/Capita

<b>Region</b>	<b>AVERAGE of GDP/Capita</b>
Africa	\$1,896.04
Asia	\$7,255.62
Europe	\$27,076.84
Middle East	\$18,116.57
Oceania	\$7,866.68
The Americas	\$11,116.62

# Factors on which a country should focus on to sustain GDP/Capita.

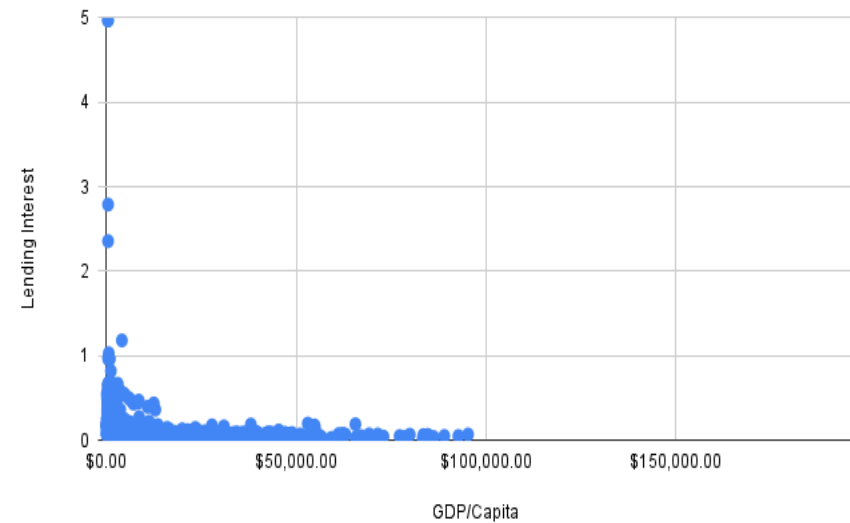
Higher the Health Exp/Capita, Higher the GDP/Capita

Health Exp/Capita vs. GDP/Capita



Lower the Lending Interest, Higher the GDP/Capita

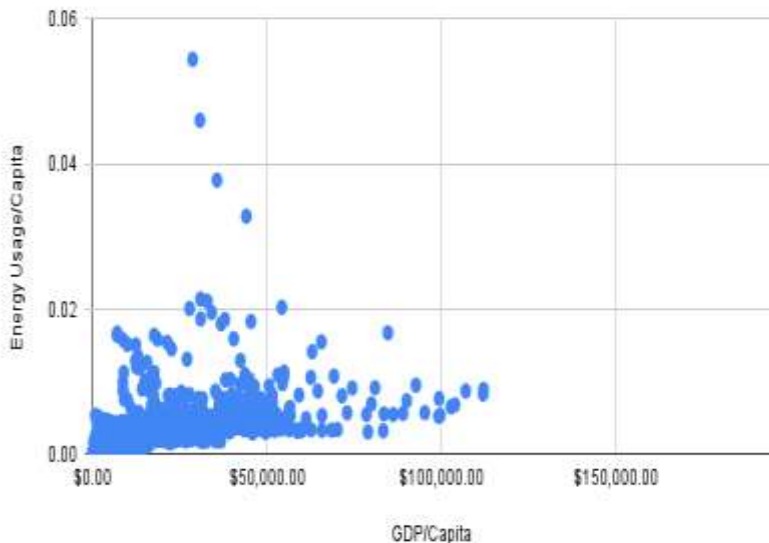
GDP/Capita vs Lending Interest



# Factors on which a country should focus on to sustain GDP/Capita.

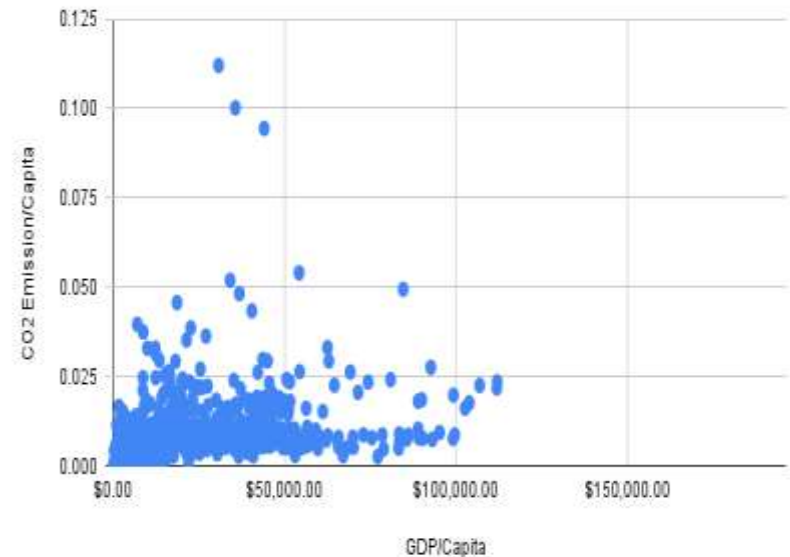
Higher the Energy Usage/Capita,  
Higher the GDP/Capita

Energy Usage/Capita vs. GDP/Capita



Higher the CO2 Emission/Capita,  
Higher the GDP/Capita

CO2 Emission/Capita vs. GDP/Capita

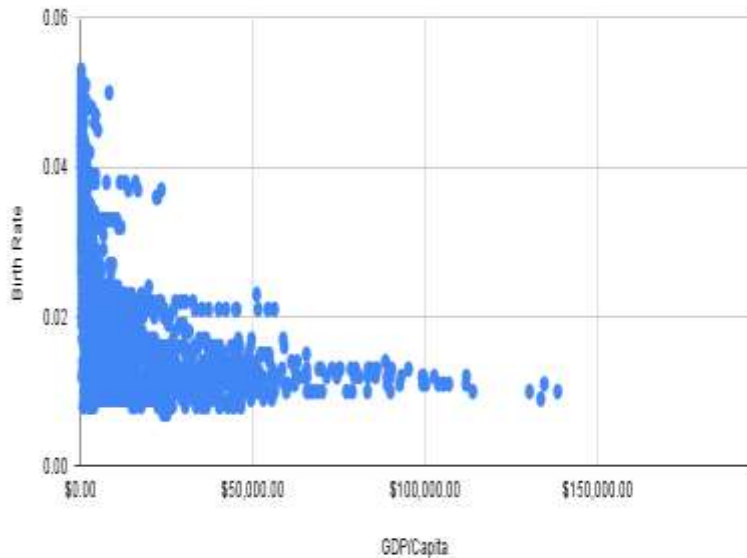




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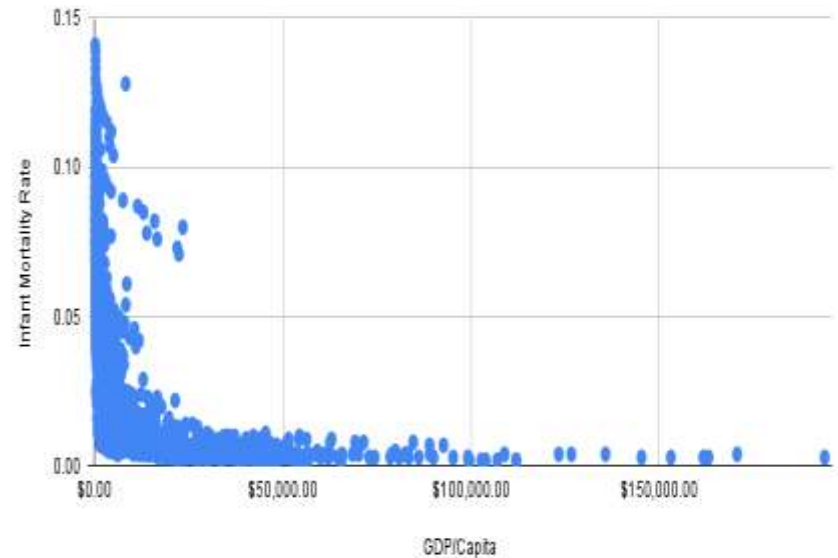
Lower the Birth Rate, Higher the GDP/Capita

GDP/Capita vs Birth Rate



Lower the Infant Mortality Rate, Higher the GDP/Capita

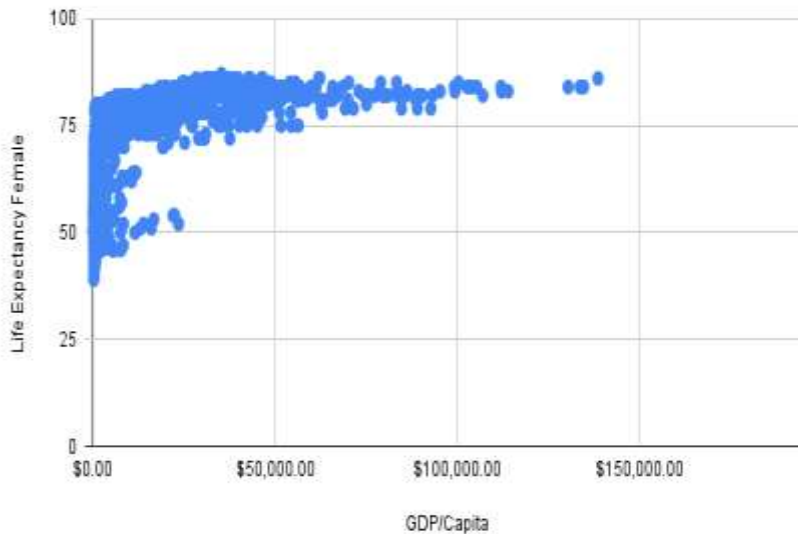
Infant Mortality Rate vs. GDP/Capita



# Factors on which a country should focus on to sustain GDP/Capita.

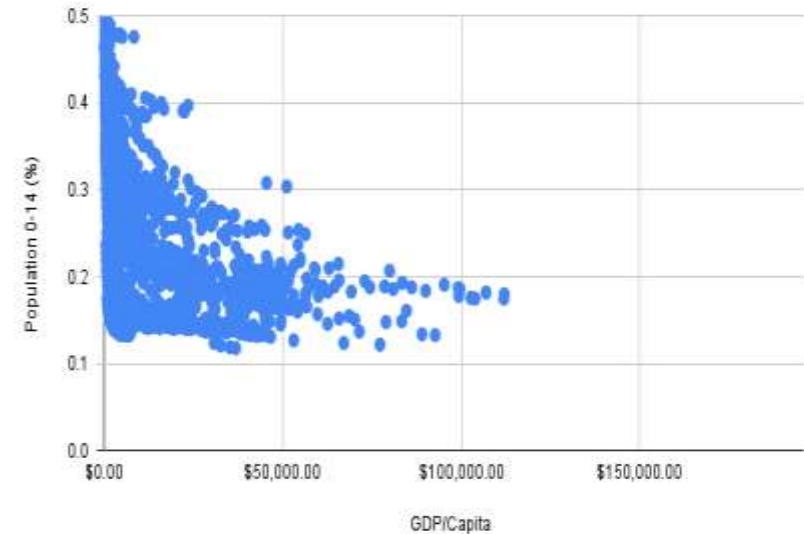
Higher the Life Expectancy of Male & Female, Higher the GDP/Capita

GDP/Capita vs Life Expectancy



Lower the 0-14 Population, Higher the GDP/Capita

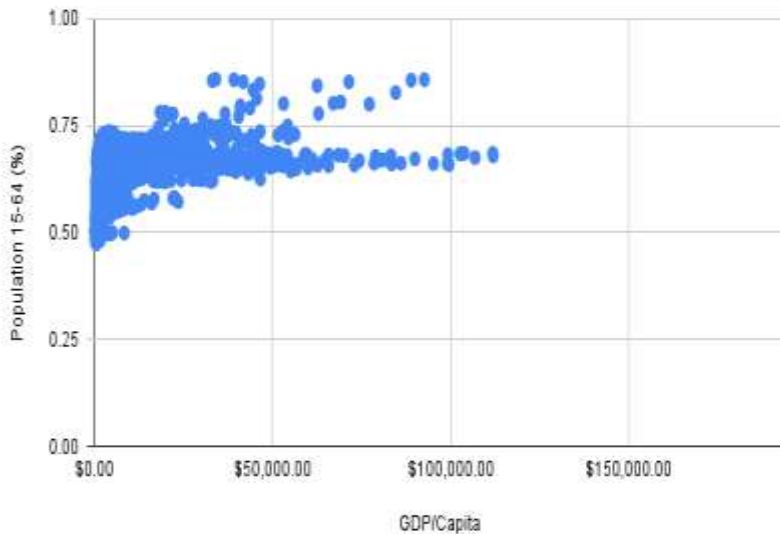
Population 0-14 (%) vs. GDP/Capita



# Factors on which a country should focus on to sustain GDP/Capita.

Higher the 15-64 Population, Higher the GDP/Capita

GDP/Capita vs Population 15-64 (%)



Higher the 65+ Population, Higher the GDP/Capita

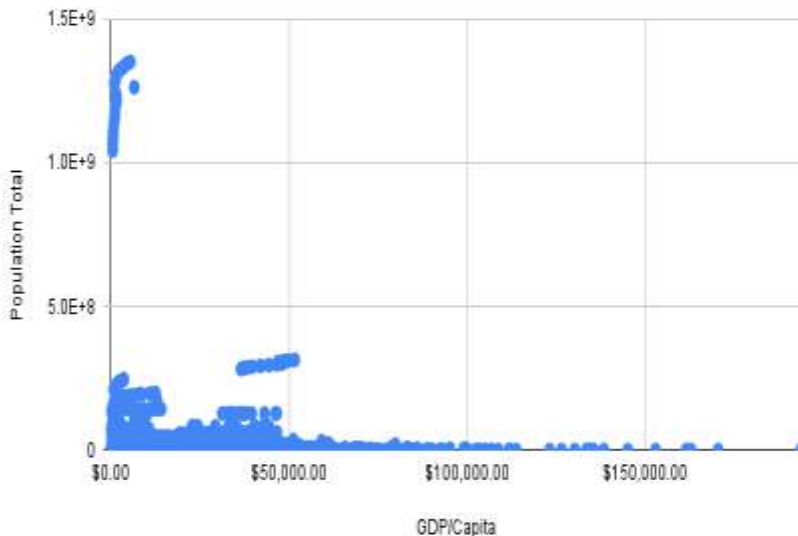
Population 65+ (%) vs. GDP/Capita



# Factors on which a country should focus on to sustain GDP/Capita.

Lower the Total Population, Higher the GDP/Capita

Population Total vs. GDP/Capita



Higher the Urban Population, Higher the GDP/Capita

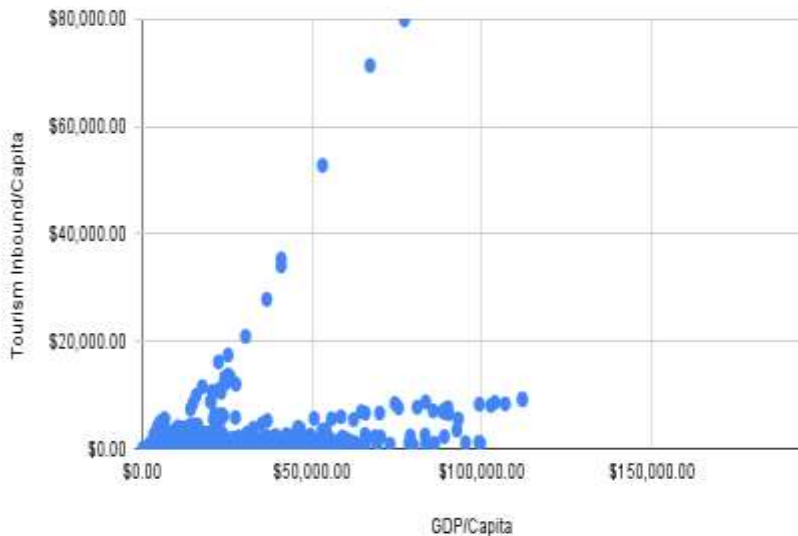
Population Urban vs. GDP/Capita



# Factors on which a country should focus on to sustain GDP/Capita.

Higher the Tourism Inbound/Capita,  
Higher the GDP/Capita

Tourism Inbound/Capita vs. GDP/Capita



Higher the Tourism Outbound/Capita,  
Higher the GDP/Capita

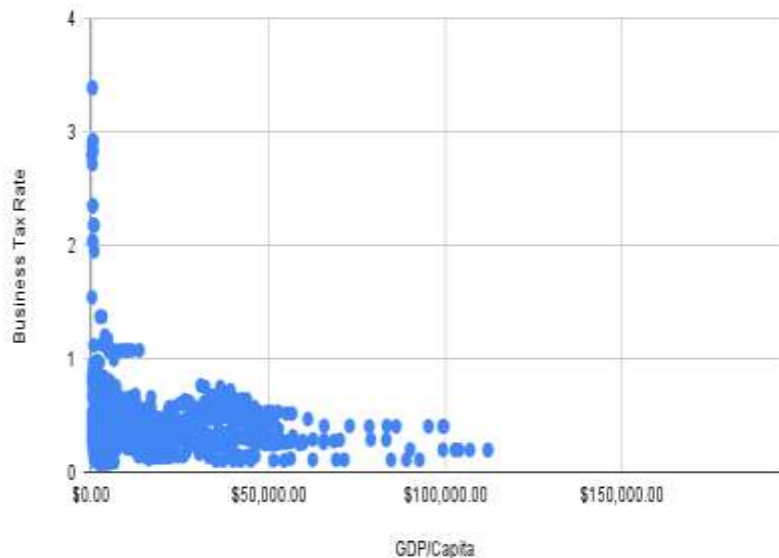
Tourism Outbound/Capita vs. GDP/Capita



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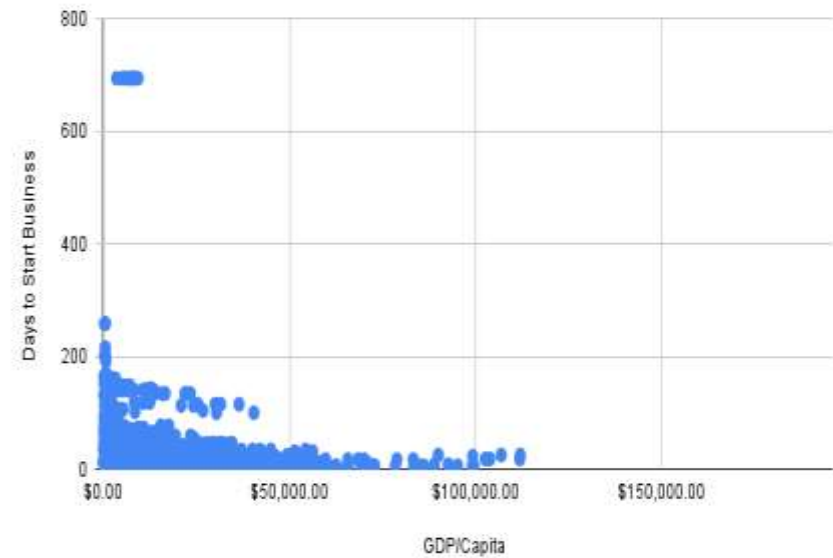
Lower the Business Tax Rate, Higher the GDP/Capita

Business Tax Rate vs. GDP/Capita



Lower the Days to Start Business, Higher the GDP/Capita

GDP/Capita vs Days to Start Business

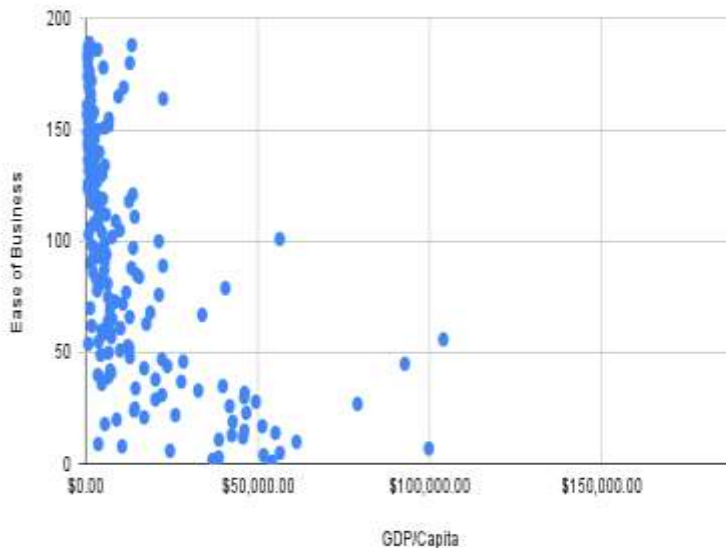


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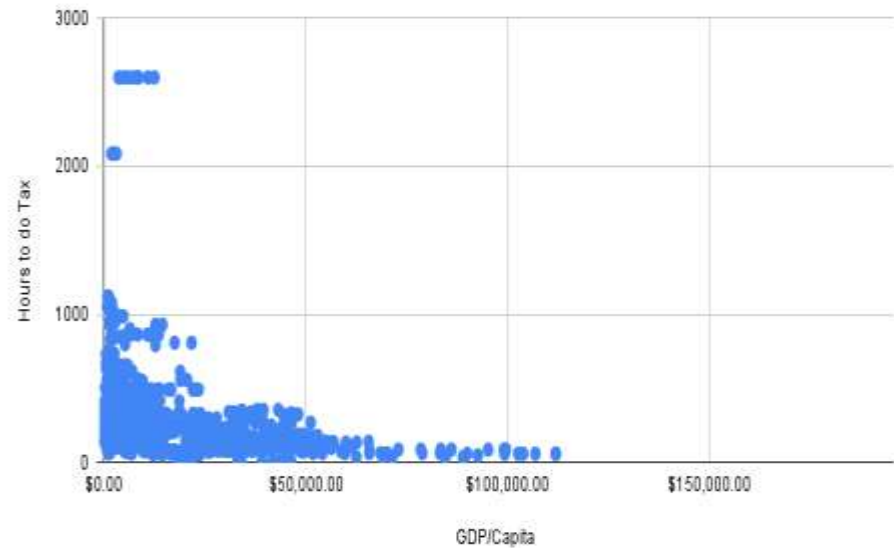
Lower the Ease of Business Index,  
Higher the GDP/Capita

Lower the Hours to do Tax, Higher the  
GDP/Capita

Ease of Business vs. GDP/Capita



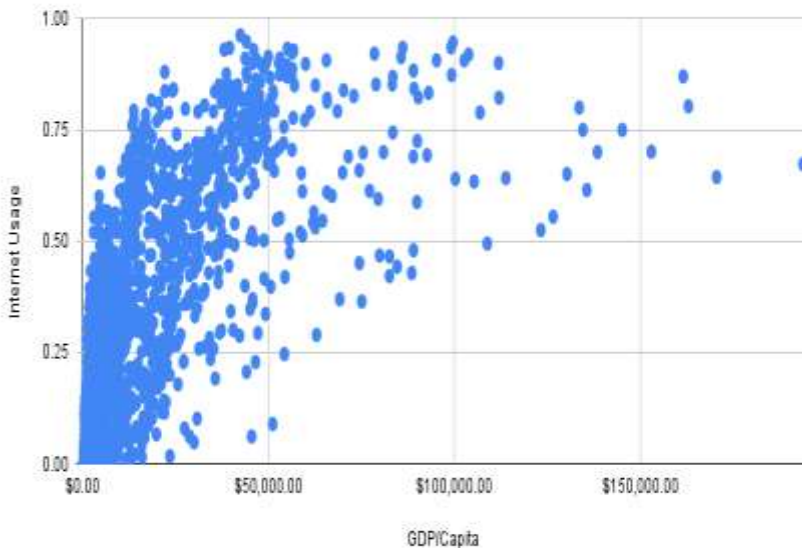
GDP/Capita vs Hours to do Tax



# Factors on which a country should focus on to sustain GDP/Capita.

Higher the Internet Usage, Higher the GDP/Capita

Internet Usage vs. GDP/Capita



Higher the Mobile Phone Usage, Higher the GDP/Capita

Mobile Phone Usage vs. GDP/Capita

