

World Economic Dataset

HOW A COUNTRY CAN ATTAIN SUSTAINABLE GROWTH?

BUSINESS PROBLEM:

- ▶ Using the given World Economic Indicator Dataset, we have to perform data analysis to find meaningful insights on which of the factors country should focus on to sustain GDP/ Capita.

SOLUTION:

- ▶ We have performed data analysis on the several factors given in the dataset & their effect on the GDP/Capita of the nation. We have imputed missing values after merging the databases using a unique identifier with the help of VLOOKUP.
- ▶ The imputation methodology using aggregated methods/zero value is not used as the information given is particular to country & region for a year & cannot be taken altogether for all the countries.
- ▶ If the previous year value of the missing entry is also absent then that entry is kept blank for the analysis.
- ▶ The outliers are present in the dataset but not taken into consideration for our analysis.

DATA USED:

► The columns from the dataset used for our consideration are as follows:

GDP/Capita

Energy Usage/Capita

Infant Mortality Rate

Population Urban

Business Tax Rate

Hours to do tax

Health Exp % GDP

CO2 Emissions/Capita

Life Expectancy

Tourism Inbound/Capita

Days to start business

Internet Usage

Lending Interest

Birth Rate

Total/Capita

Tourism Outbound/Capita

Ease of Business

Mobile Phone Usage

EXECUTIVE SUMMARY:

Factors on which country should focus on to sustain GDP of the nation:

- Last 12 years of countries data was taken into consideration for the analysis and their effect was studied on the GDP/capita of the nation.
- We see that there is a positive correlation between GDP & Health Expenditure. Countries which are having more health expenditure % of GDP have more GDP/capita.
- Tourism is a great source of enhancing GDP of the nation. Tourism Inbound/Capita has a strong positive correlation with the GDP of the nation.
- Energy Usage/Capita and CO2 Emissions/Capita shows strong positive correlation with the GDP of the nation. Although not good for the nature but can be considered as signs of growing economy.
- Urbanization can also be considered as a factor for enhancing GDP of the nation. Countries having more population in the urban areas have better GDP/capita compared to others.
- The taxation rules on the citizens also affects the GDP/capita of the nation. Lending Interest Rate, Hours to do Tax and Business Tax Rate shows negative correlation with the GDP of the nation. Lesser the value, better the GDP/capita of the nation.

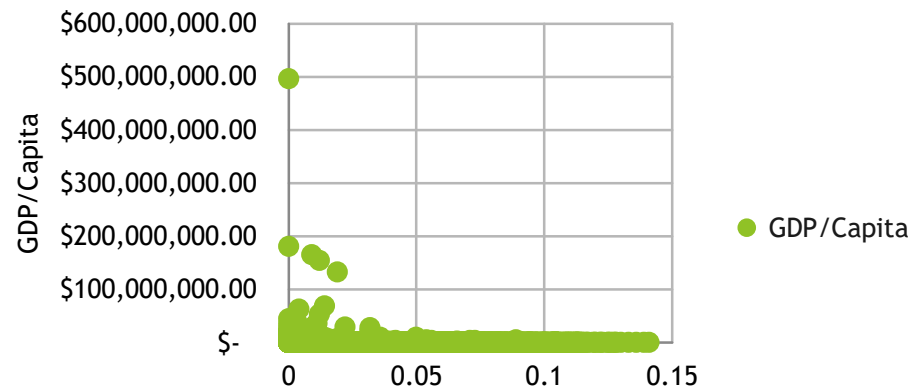
EXECUTIVE SUMMARY:

- Digitization of country resources/economy can be factor to improve the literacy among the citizens & enriching the GDP/capita of the nation as it was found that Internet Usage and Mobile Phone Usage have extremely positive correlation with the GDP of the nation.
- 2-child policy can also be an option for heavily populated countries as Birth Rate shows the strong negative correlation with the GDP/Capita of the nation. Countries having lower birth rate have low burden on the country's resources & economy thus leads to better GDP of the nation.

DETAILED ANALYSIS:

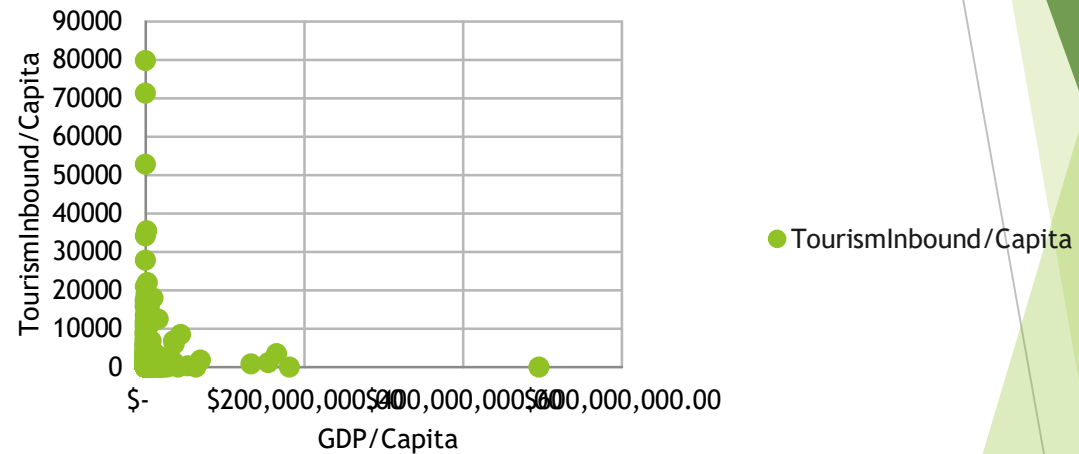
Factors on which Country's GDP/ Capita depends:

Infant Mortality Rate vs GDP/Capita



Lower the Infant mortality rate, higher the GDP/capita of the nation.

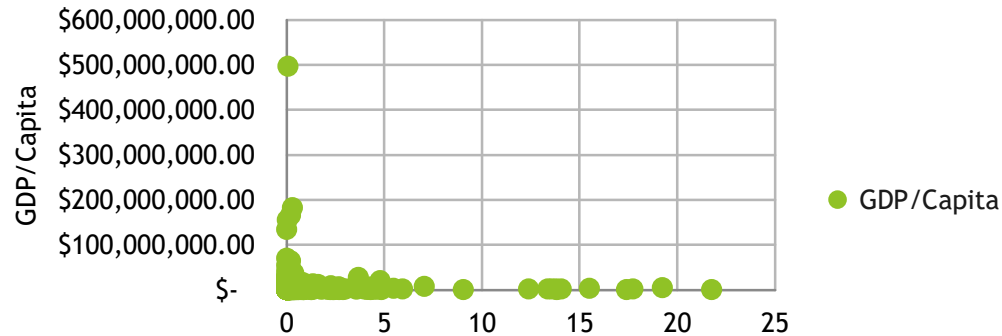
TourismInbound/Capita vs GDP/Capita



Higher the Tourism Inbound/capita, higher the GDP/capita of the nation.

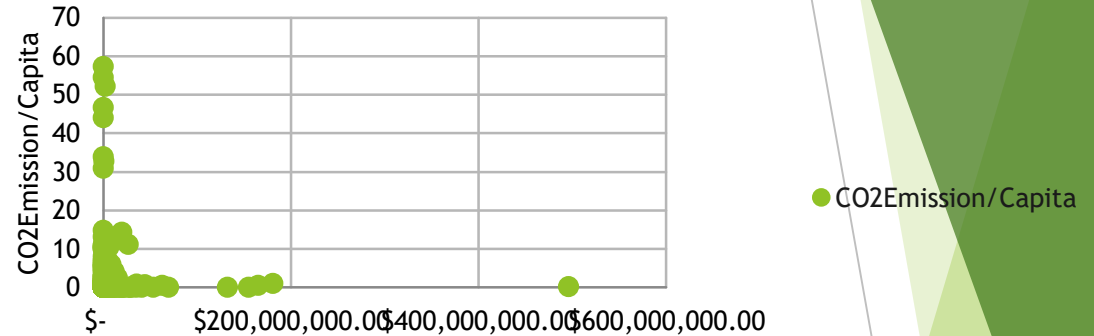
DETAILED ANALYSIS:

EnergyUsage/Capita vs GDP/Capita



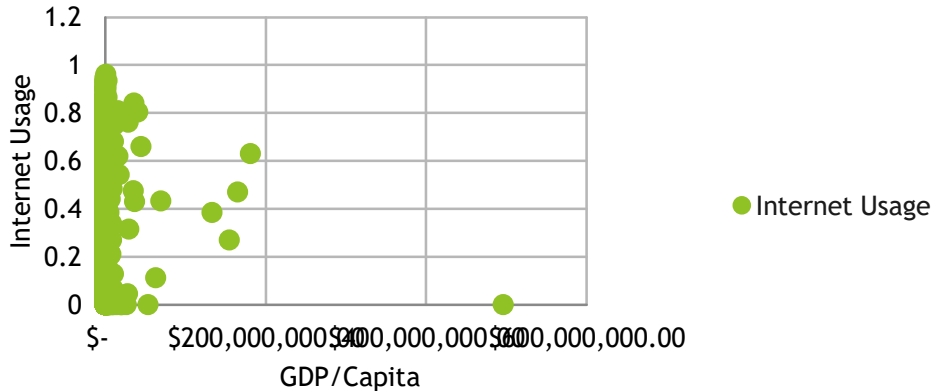
Higher the Energy Usage/capita, higher the GDP/capita of the nation.

CO2Emission/Capita vs GDP/Capita



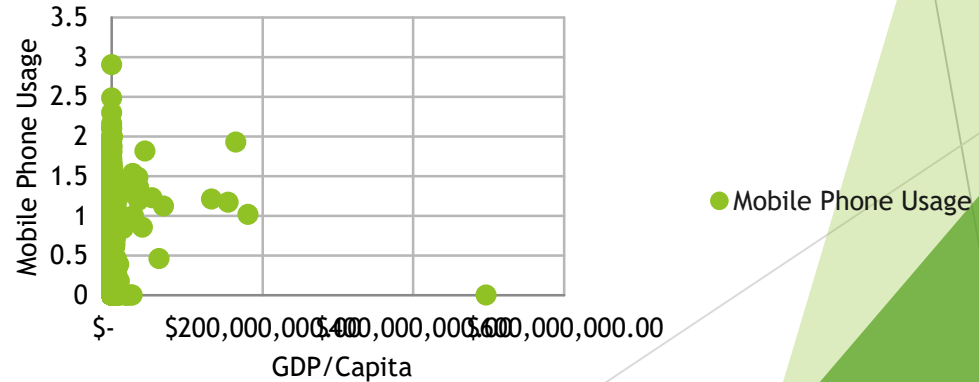
Higher the CO2 Emissions/Capita, higher the GDP/Capita of the nation.

Internet Usage vs GDP/Capita



Higher the Internet usage among the nation's population, higher the GDP/capita of the nation.

Mobile Phone Usage vs GDP/Capita



Higher the mobile phone usage among population, higher the GDP/capita of the nation.

THANK YOU