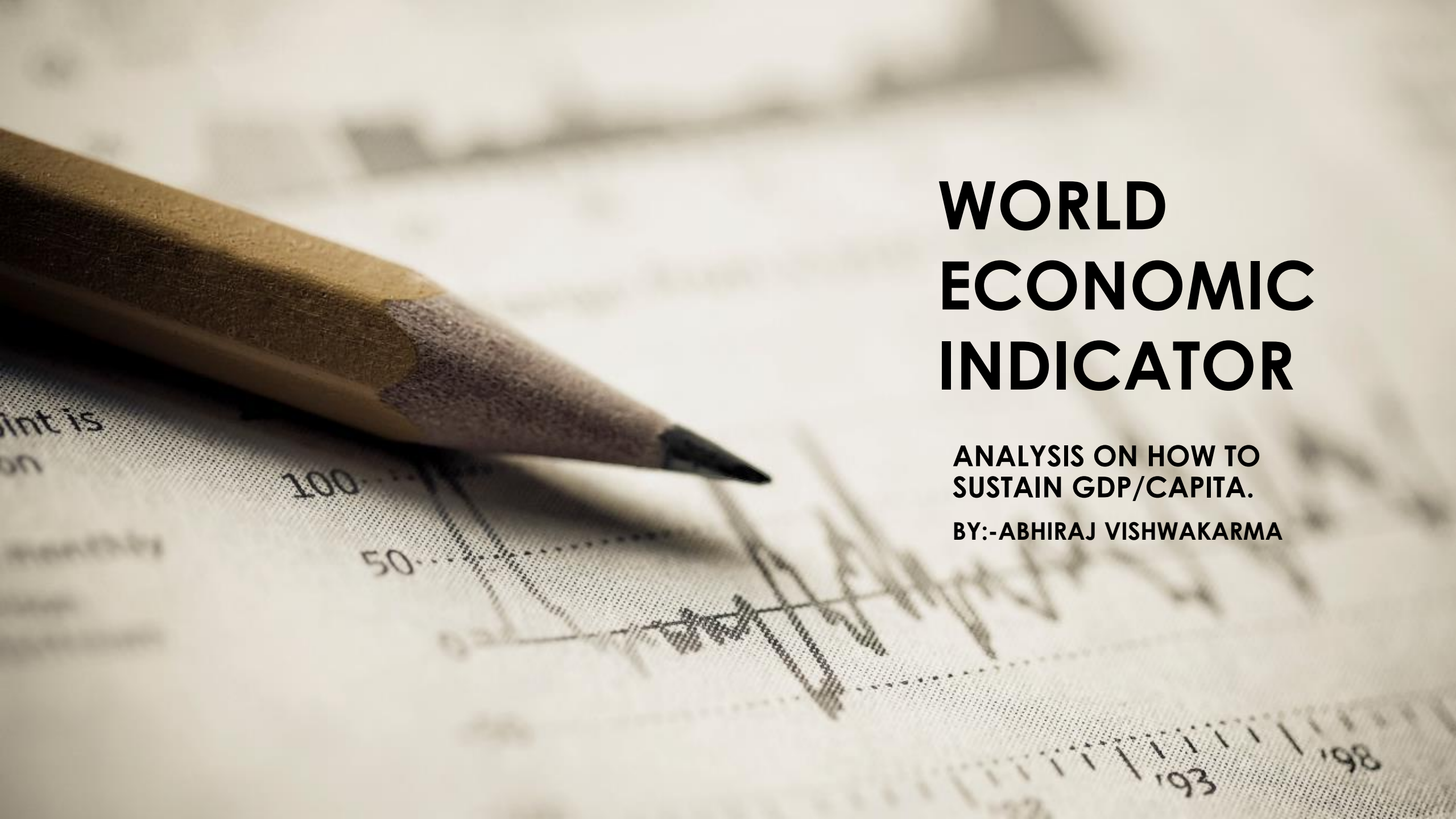

WORLD ECONOMIC INDICATOR

ANALYSIS ON HOW TO SUSTAIN GDP/CAPITA.

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BUSINESS PROBLEM

Being a part of a Department under ECONOMIC CO-OPERATION AND DEVELOPMENT ORGANISATION our task is to bring out useful insights from the given WORLD ECONOMIC DATASET that "How a country should sustain its GDP/CAPITA" by focusing on features that either strongly or weakly affects it.

SOLUTION

1).We are provided with ECONOMIC DATASET of 12 years of different countries in the world, containing different features over which a countries GDP depends.

2).This dataset contains large number of missing values and outliers that are handled in the best possible way according to my knowledge.

3).Some addon features are Engineered such as (GDP/CAPITA,TOTAL LIFE EXPECTANCY,ENERGY/CAPITA,CO2 EMISSION/CAPITA,TOURISM INBOUND/CAPITA,TOURISM OUTBOUND/CAPITA)in according to drive the analysis to a much more detailed Easy and Accurate direction in order to get Efficient results.

4).After all the Data arrangements and Data processing required we performed analysis using various Data analytics tools and techniques such as UNIVARIATE ANALYSIS and BIVARIATE ANALYSIS on features which play a vital role in the contribution to GDP/CAPITA of a Nation.

Key Features Used For Analysis.

GDP DATASET ENERGY DATASET	HUMAN RESOURCES DATASET	TOURISM DATASET	BUSINESS DATASET
***GDP/CAPITA** ***HEALTH EXP/CAPITA**	***BIRTH RATE** ***INFANT MORTALITY RATE**	***TOURISM INBOUND/CAPITA**	***BUSINESS TAX RATE** ***DAYS TO START BUSINESS**
***LENDING INTEREST**	***POPULATION 0-14** ***POPULATION 15-64** ***POPULATION 65+**	***TOURISM OUTBOUND/CAPITA**	***EASE OF BUSINESS** ***HOURS TO DO TAX**
***ENERGY USAGE/CAPITA** ***CO2 EMISSION/CAPITA**	***POPULATION URBAN** ***TOTAL LIFE EXPECTANCY**		***INTERNET USAGE** ***MOBILE PHONE USAGE**

DETAILED INSIGHTS

1).Countries like ASIA,EUROPE,OCEANIA are having more Average values for GDP/CAPITA among all the other countries which explains for there increased and improved GDP/CAPITA during 12 years.

2).The cause for increasing GDP is observed that countries who invest more percentage on HEALTH EXPENSES are likely to have more GDP, as Health exp/capita is directly related to GDP/capita.

3).Countries having high GDP/CAPITA are found to have a low BIRTH RATE, although this statement cannot be supported with full confidence but Birth rate affects GDP/CAPITA of a country.

4).Its observed that countries having low infant mortality rate are having increased GDP/CAPITA, which is due to increased investment on health expenditure eventually increases Total life expectancy Rate.

5).Countries having high GDP/CAPITA are having Heavy Energy usage which results in Increased CO2 Emission.

DETAILED INSIGHTS

6).Population 0-14 and 65+ do not contribute or affect much to the GDP/CAPITA as this age range cannot be considered as workforce for a nation and has low significance towards GDP/CAPITA.

7).Population of range15-64 who are living in Urban areas are resulting in a much useful population for a country as they can be treated as active workforce and contribute greatly to GDP/CAPITA.

8).Countries having high GDP/CAPITA are tend to have high Tourism inbound/capita which in return increases Tourism outbound/capita.

9).Countries which are having high Business taxes are having GDP on the lower side due to which days to start business, hours to do taxes also increases due to which Business becomes tough and complicated.

10).Lastly it can be concluded that countries having high GDP/CAPITA are having High mobile phone usage and Internet usage but this statement cannot be supported confidentially and have lower significance.

ANALYSED RELATION OF FEATURES WITH GDP/CAPITA.

MAIN DATASET	POSITIVELY RELATED DATASETS	NEGATIVELY RELATED DATASETS	DATASETS WITH LESS SIGNIFICANCE
GDP/CAPITA	*HEALTH EXP/CAPITA *ENERGY USAGE/CAPITA *CO2 EMISSION/CAPITA	*LENDING INTEREST *BIRTH RATE *INFANT MORTALITY RATE	*BIRTH RATE *POPULATION 0-14
	*POPULATION 15-64 *POPULATION 65+ *POPULATION URBAN *TOTAL LIFE EXPECTANCY	*POPULATION 0-14 *BUSINESS TAX RATE *DAYS TO START BUSINESS	*POPULATION 65+
	*TOURISM INBOUND *TOURISM OUTBOUND *MOBIULE PHONE USAGE *INTERNET USAGE	*EASE OF BUSINESS *HOURS TO DO TAX	*INTERNET USAGE *MOBIULE PHONE USAGE

FINAL INSIGHTS

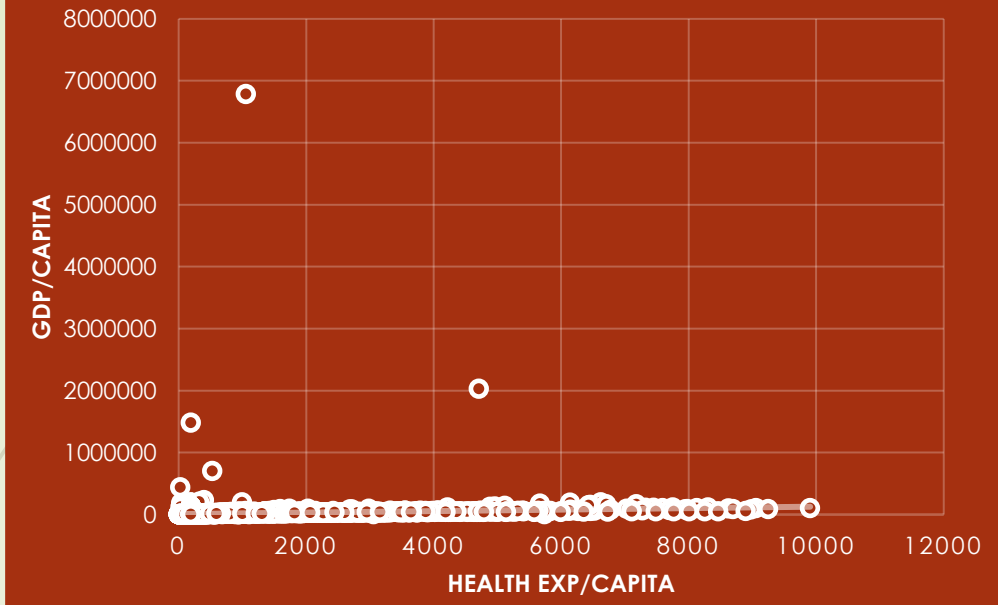
1).In order to Sustain GDP/CAPITA, a country should focus to increase its Health exp/capita, which increases its overall population which supports for a healthy workforce specially workforce of population age group 15-64 who are living in urban areas contribute more to GDP/CAPITA to the nation.

2).A country should focus on to invest in Business start-ups and entrepreneurships with less Lending interest and Business taxes.

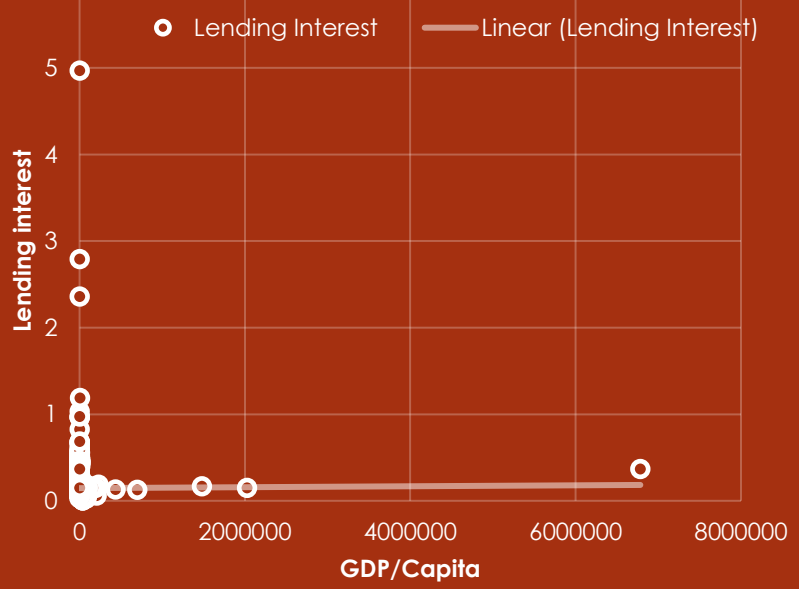
3).A country should make an increment in the services provided and production so that Tourism inbound and outbound is maintained on a higher level.

These are the main features that are needed to be focussed to attain a wealthy GDP for a country.

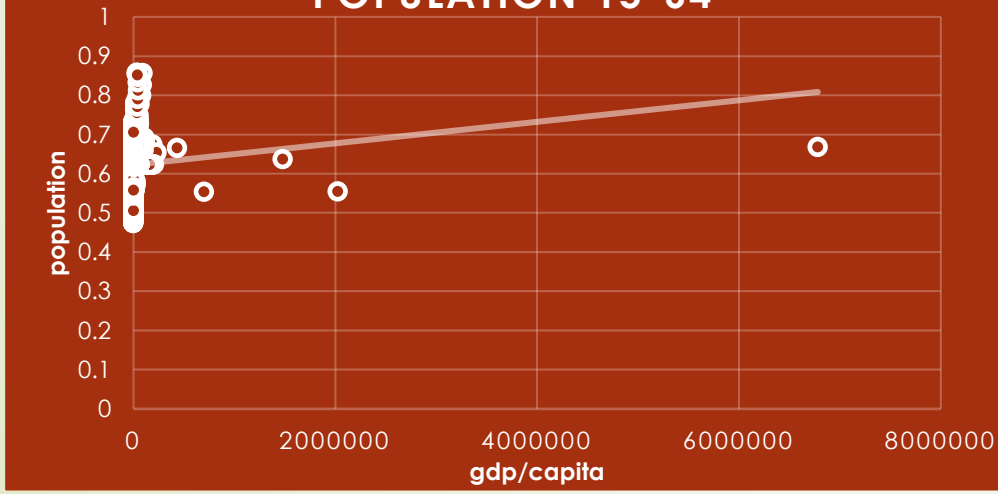
HEALTH EXP/CAPITA VS GDP/CAPITA



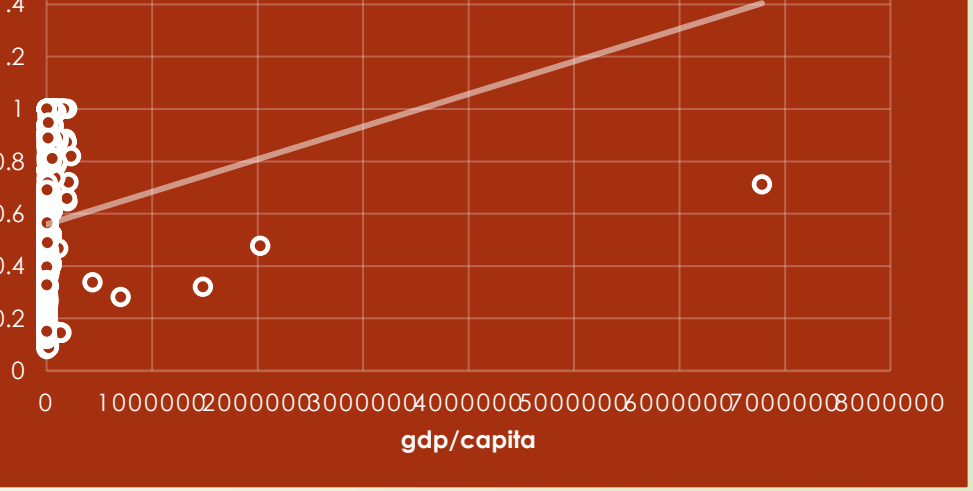
GDP/CAPITA VS LENDING INTEREST

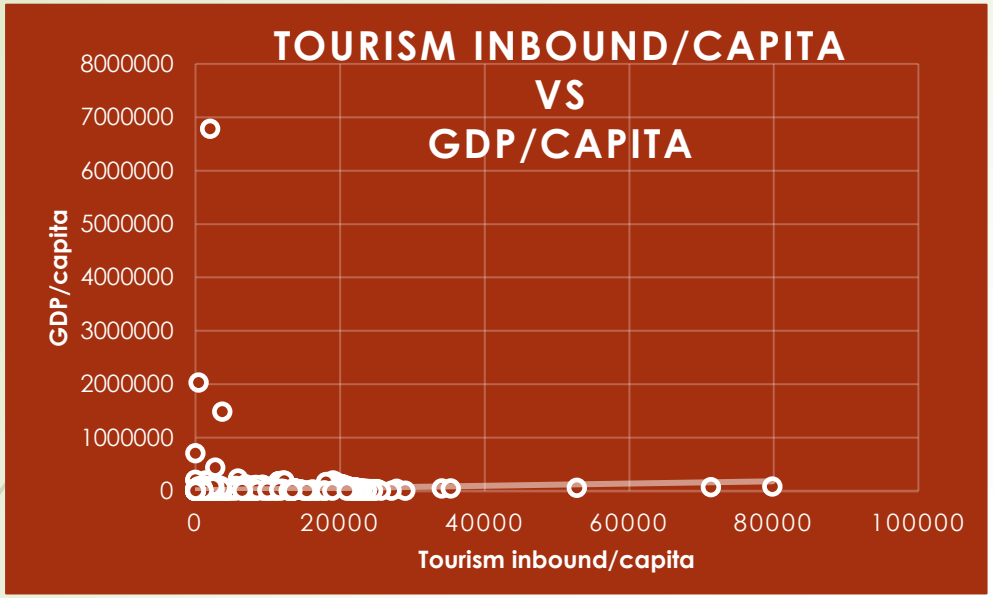


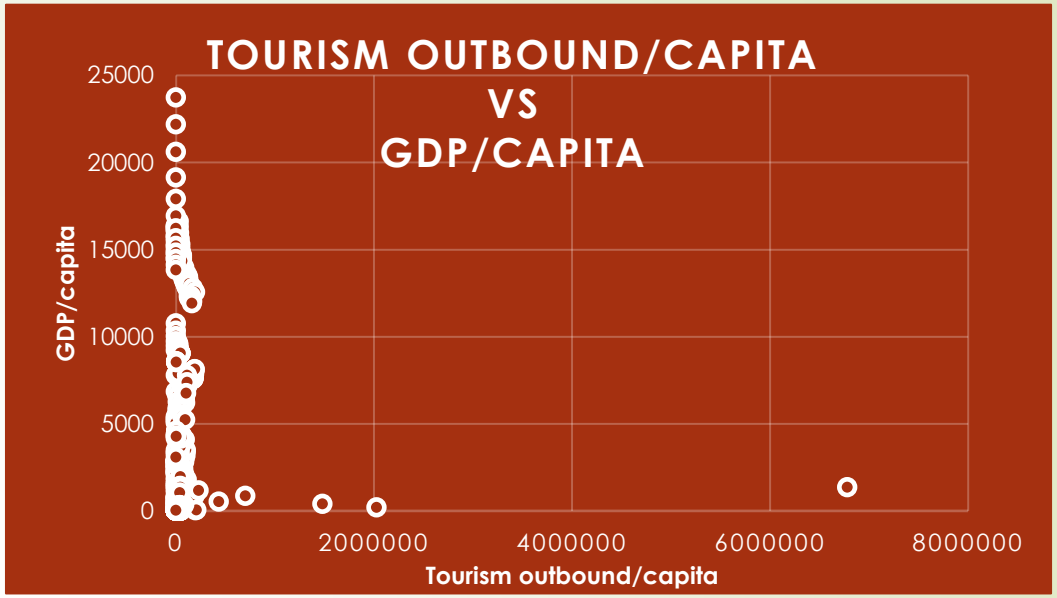
GDP/CAPITA VS POPULATION 15-64

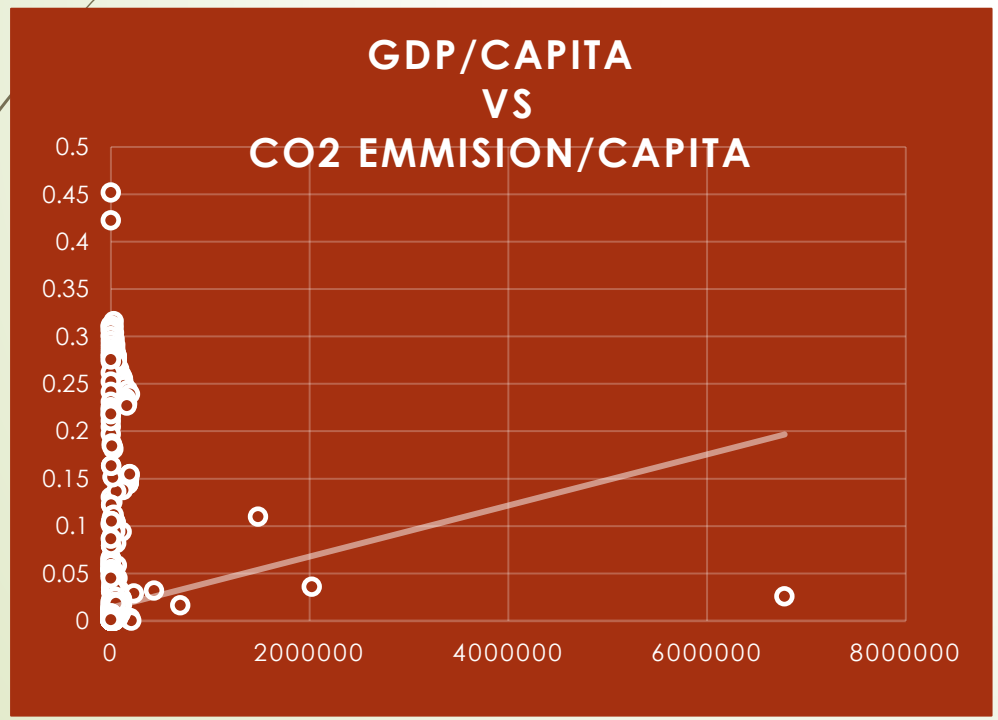


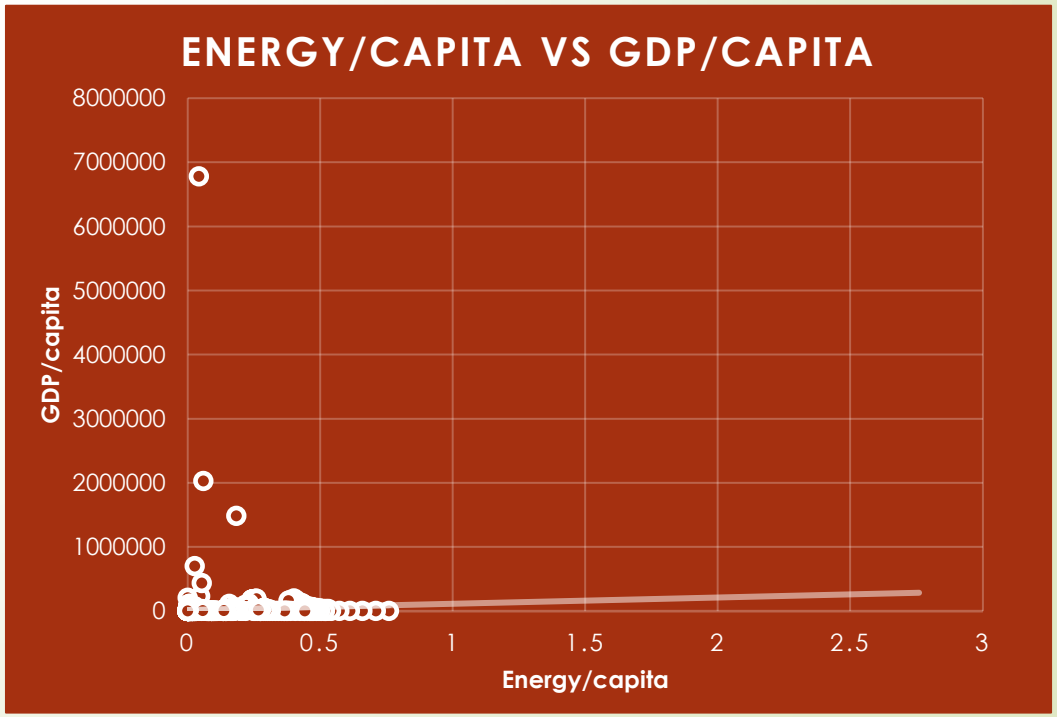
GDP/CAPITA VS POPULATION URBAN



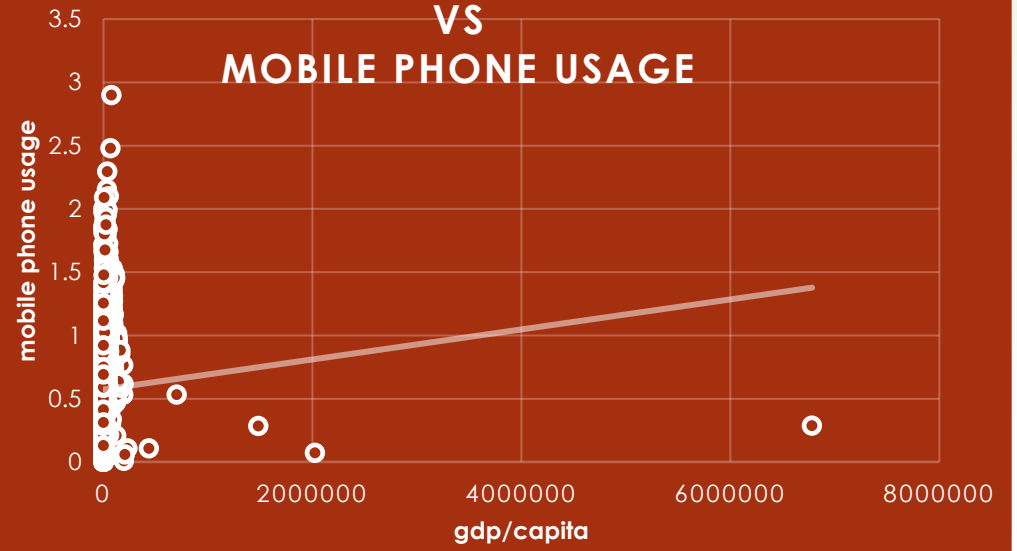

TOURISM INBOUND/CAPITA
VS
GDP/CAPITA
GDP/capita
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
0
20000
40000
60000
80000
100000
Tourism inbound/capita


TOURISM OUTBOUND/CAPITA
VS
GDP/CAPITA
GDP/capita
25000
20000
15000
10000
5000
0
0
2000000
4000000
6000000
8000000
Tourism outbound/capita

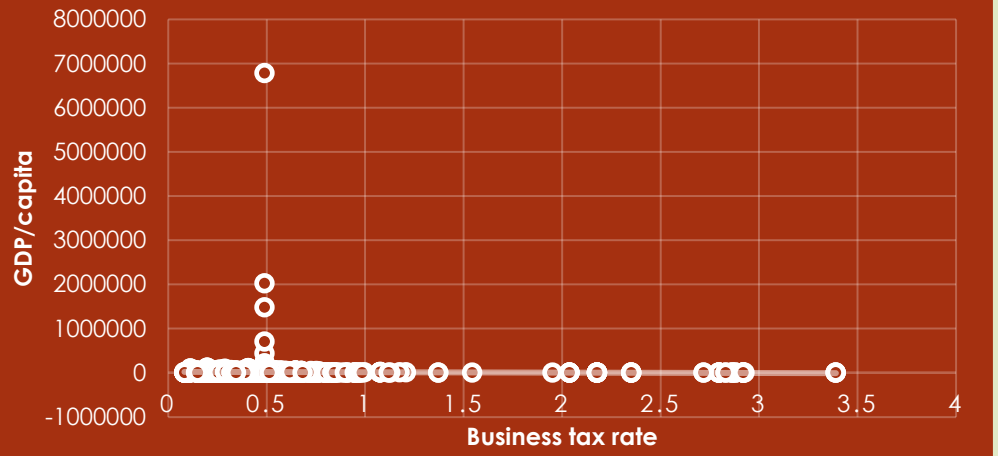

GDP/CAPITA
VS
CO2 EMMISION/CAPITA
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2000000
4000000
6000000
8000000


ENERGY/CAPITA VS GDP/CAPITA
GDP/capita
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
0
0.5
1
1.5
2
2.5
3
Energy/capita

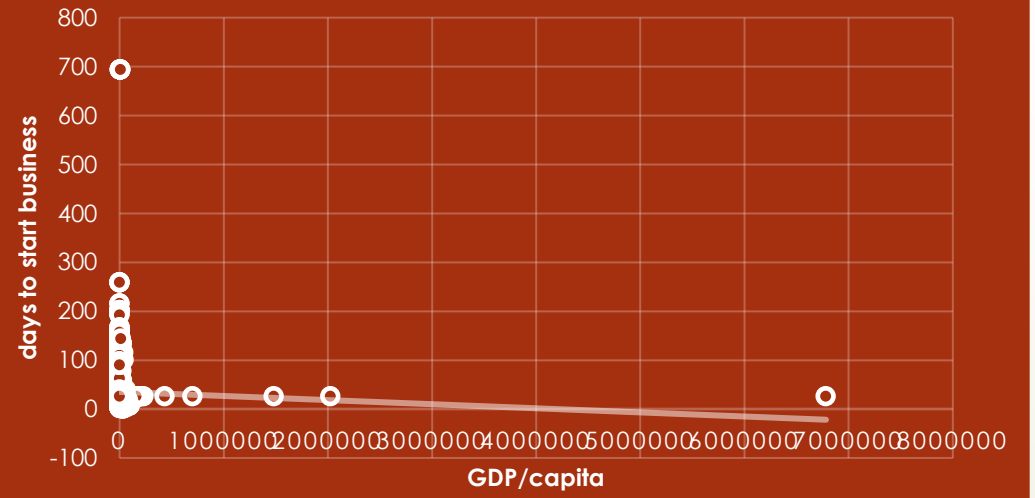
GDP/CAPITA VS MOBILE PHONE USAGE



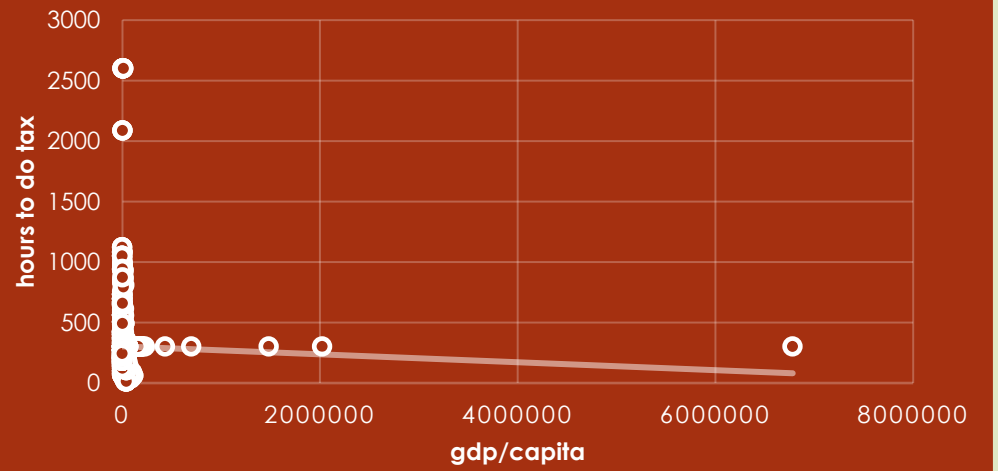
BUSINESS TAX RATE VS GDP/CAPITA



GDP/CAPITA VS DAYS TO START BUSINESS



HOURS TO DO TAX VS GDP/CAPITA



THANK YOU