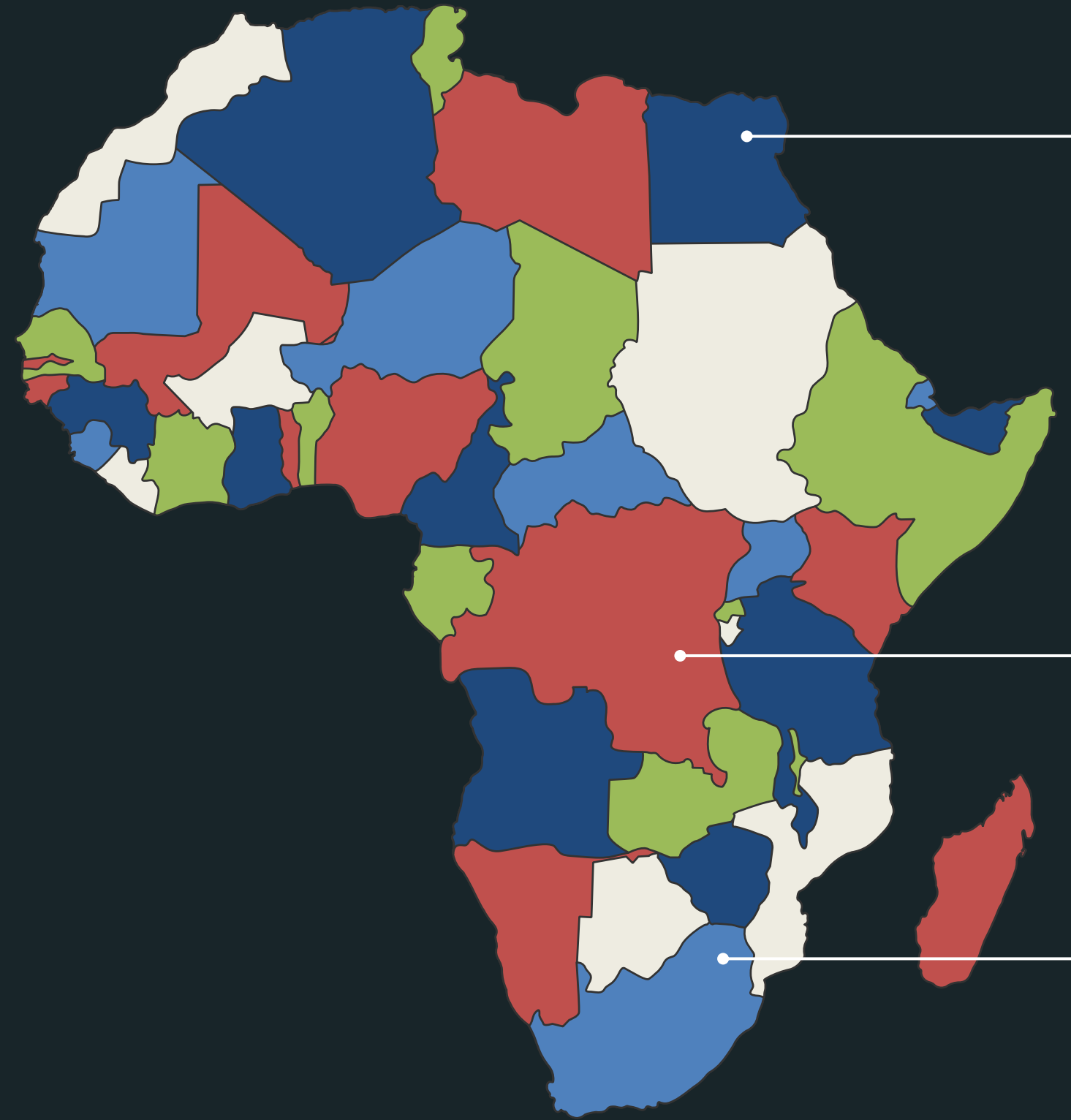# How Internet Usage Impacts Growth

Focusing on East and South Africa

Jee Soo Jhun

OVERVIEW

Analyze the influence of internet usage on GDP growth, governance, and environmental sustainability.
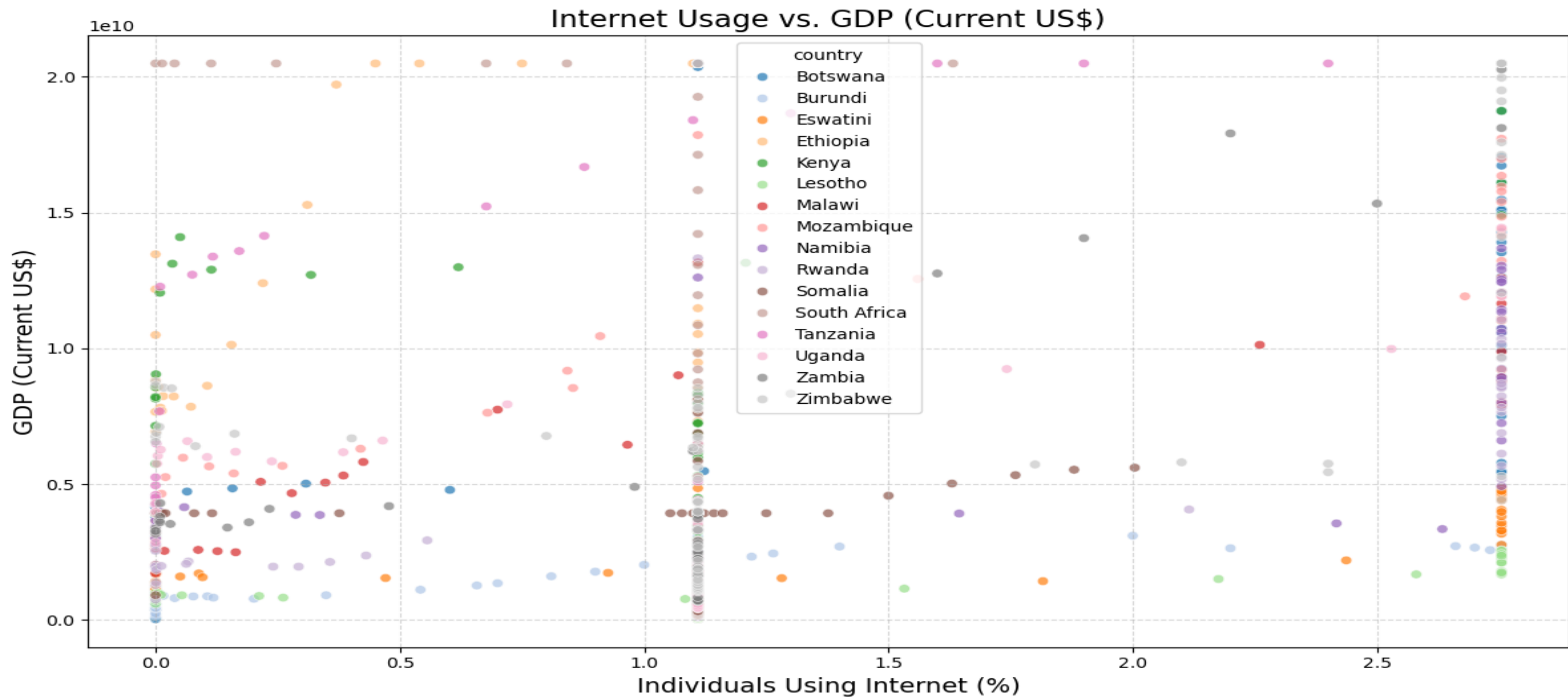
THE WORLD BANK

kaggle™

1008

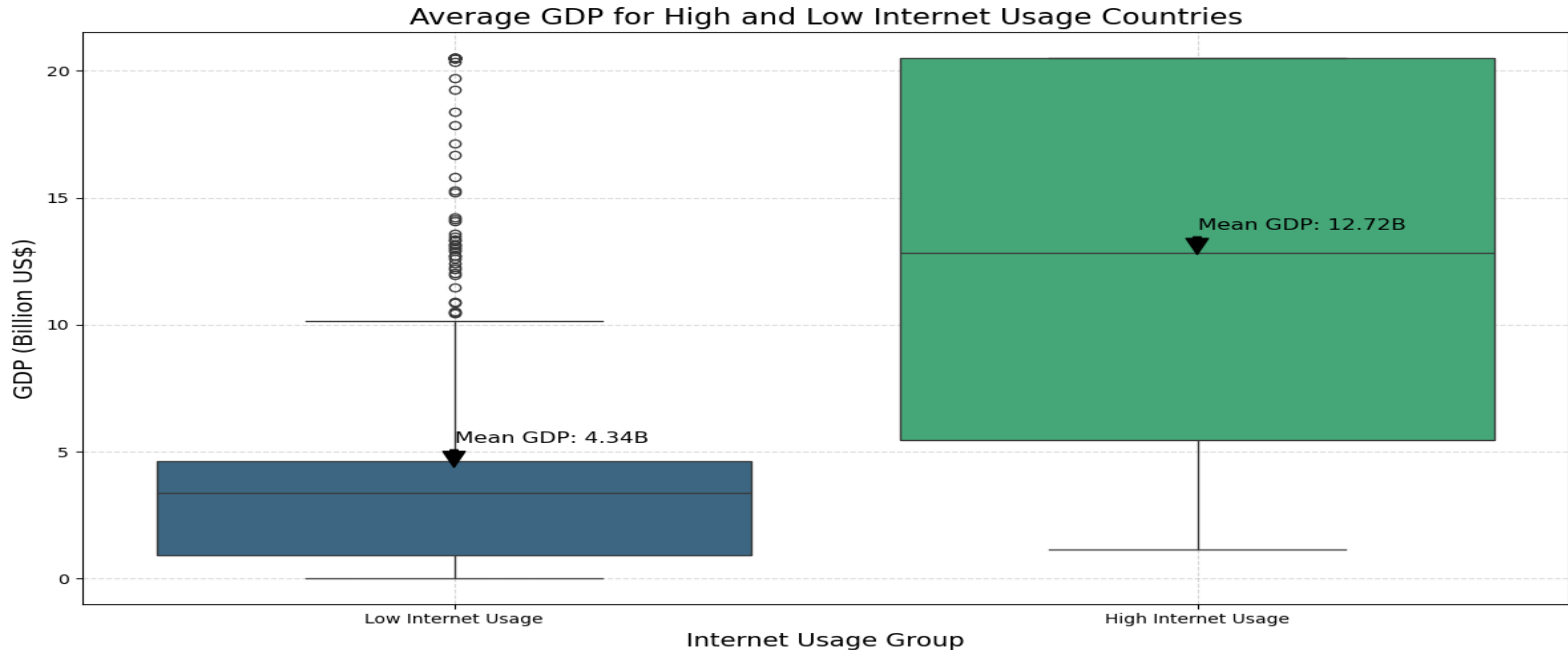# Initial Data Insights

Internet Usage vs. GDP (Current US$)

Key Findings from Inferential Analysis

Comparing GDP Across Different Internet Usage Levels

Average GDP for High and Low Internet Usage Countries

Mean GDP: 12.72B

Mean GDP: 4.34B

GDP (Billion US$)

Low Internet Usage

High Internet Usage

Internet Usage Group

Moderation Analysis: Role of Electricity Access

How Infrastructure Affects Internet's Impact on GDP

Moderation Effect of Access to Electricity on the Relationship Between Internet Usage and GDP
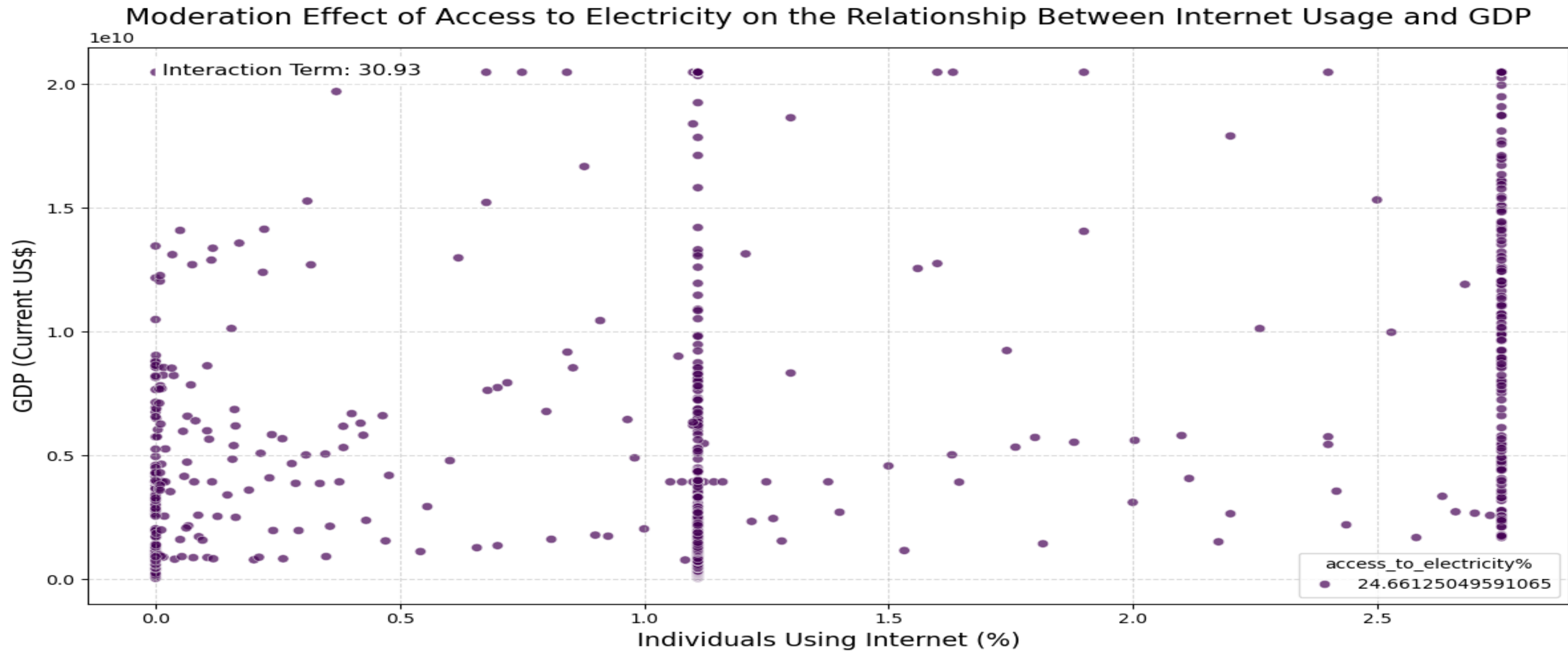
Key Features for GDP Prediction

Top Predictors from Different Models

Random Forest Feature Importances

Feature	Value
Population Density	0.37
Trade in Services (%)	0.28
Internet Usage (%)	0.19

Gradient Boosting Feature Importances

Feature	Value
Population Density	0.33
Trade in Services (%)	0.27
Internet-Electricity Interaction	0.21

Linear Regression Coefficients

Feature	Value
CO2 Emissions	189311.14
Renewable Energy Consumption (%)	-5915.97
Access to Electricity (%)	1306.56

75%
Random Forest
Gradient Boosting

41%
Linear Regression

Predicting Economic Development Levels

1 Decision Tree

59%

2 k–Nearest Neighbors (KNN)

59%

3 SVM (Support Vector Machine) Classifier

60%

NEXT STEPS

1. Invest in Digital and Energy Infrastructure

2. Seek Funding from Multilateral Development Banks

3. Develop Public-Private Partnerships

4. Monitor and Evaluate Impact

THANK YOU!