

# Final Project Report

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## Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis

### 1. INTRODUCTION

#### 1.1 Project Overview

This project analyzes the Economic Freedom Index data across global economies to assess how various dimensions of economic policy—such as government integrity, tax burden, property rights, and fiscal health—contribute to national prosperity. Using Tableau, we created interactive dashboards and stories to visualize patterns and insights from the dataset.

#### 1.2 Purpose

The aim is to empower policy analysts, economists, and citizens to better understand which aspects of economic freedom drive growth, and how countries compare across time and regions.

### 2. IDEATION PHASE

#### 2.1 Problem Statement

To understand the economic wellbeing of nations through the lens of the Index of Economic Freedom, and to develop a visual framework that helps policymakers identify strengths and areas for reform.

#### 2.2 Empathy Map Canvas

Users: Economic researchers, policy analysts, students

Needs: Clear visualizations, comparisons, trend analysis

Pain Points: Data complexity, lack of interactive tools

Goals: Easy country-wise or regional comparisons, insight into key indicators

#### 2.3 Brainstorming

We ideated multiple visualizations:

- Freedom Index vs GDP
- Region-wise comparisons
- Year-over-year trends
- Correlation of property rights and prosperity

### 3. REQUIREMENT ANALYSIS

#### 3.1 Customer Journey Map

User wants to explore economic freedom data → opens dashboard → filters by region or year → views insights → downloads or shares findings.

#### 3.2 Solution Requirement

- Interactive dashboard (filters by country, year, and category)
- Downloadable summary and visual reports
- Compatibility with public Tableau platform

#### 3.3 Data Flow Diagram

Input: Economic Freedom CSV → Preprocessing (cleaning, reshaping) → Tableau Dashboards

Output: Interactive charts, storyboards, rankings

#### 3.4 Technology Stack

- Tableau Public
- CSV dataset
- Microsoft Excel (preprocessing)
- Figma (design mockups)

### 4. PROJECT DESIGN

#### 4.1 Problem-Solution Fit

Current static reports on economic indicators lack interactivity. Our Tableau solution bridges that gap with real-time filtering and comparisons.

#### 4.2 Proposed Solution

A multi-page Tableau dashboard and story to allow users to:

- View rankings by region or indicator
- Compare multiple countries across years
- Identify strengths/weaknesses per nation

#### 4.3 Solution Architecture

CSV → Tableau Prep (optional cleaning) → Tableau Public → Published dashboard with multiple views and filters

### 5. PROJECT PLANNING & SCHEDULING


#### 5.1 Project Planning


Phase | Task | Timeline

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Week 1 | Data exploration & cleaning | 

Week 2 | Dashboard design (layout, filters) | 

Week 3 | Storyboarding, interactivity | 

Week 4 | Testing, final touches, deployment | 

## 6. FUNCTIONAL AND PERFORMANCE TESTING

### 6.1 Performance Testing

- Data Load Time: Within 3 seconds on Tableau Public
- Responsiveness: Works across browser screen sizes
- Filter Functionality: Confirmed correct behavior for all slicers and drilldowns

## 7. RESULTS

### 7.1 Output Screenshots

Include here:

- Main dashboard overview
- Country-wise comparison view
- Regional ranking heatmap
- Story tab: Key takeaways

## 8. ADVANTAGES & DISADVANTAGES

### Advantages

- Interactive, intuitive dashboards
- Publicly accessible
- Scalable to new data (yearly updates)

### Disadvantages

- Requires internet for Tableau Public
- Some charts limited by dataset granularity

## 9. CONCLUSION

This project successfully showcases how visual analytics can improve understanding of global economic freedom. The interactive Tableau dashboard makes complex datasets accessible and insightful for a wide audience.

## 10. FUTURE SCOPE

- Include GDP, HDI, or Inflation for deeper insights
- Add predictive modeling with economic trends
- Automate data updates annually

## 11. APPENDIX

- Source Code: Not applicable (done in Tableau)
- Dataset Link: (Provide the CSV or data source URL)
- Tableau Public Link: (Paste your published dashboard/story URL)