

## Data Flow Diagram (DFD)

Date	31 January 2026
Team ID	LTVIP2026TMIDS24940
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis
Maximum Marks	4 Marks

### Project Flow

CSV Dataset



Data Cleaning (Excel)



Tableau Processing



Visualizations



Dashboard & Story



User (Analysis & Insights)

The Level 0 Data Flow Diagram represents the overall flow of data in the *Economic Freedom Analysis Dashboard* system. It shows how global economic data is collected, processed, visualized, and delivered to users for analytical understanding and interpretation.

### 1. Input Data Source

The system takes input from the **Index of Economic Freedom dataset** in CSV format. The dataset contains country-level economic indicators including:

- Overall Economic Freedom Score
- Property Rights
- Judicial Effectiveness
- Government Integrity
- Tax Burden
- Government Spending
- Business Freedom
- Trade Freedom
- Investment Freedom
- Financial Freedom
- GDP per Capita (PPP)
- GDP Growth Rate
- Inflation Rate
- Unemployment Rate
- Public Debt and FDI indicators

This raw dataset acts as the primary source of analysis.

## 2. Processing System

The input data is processed using **Microsoft Excel and Tableau Desktop**.

In this stage:

- Data cleaning is performed (handling missing values, correcting formats)
- Country names and indicators are standardized
- Fields are categorized into dimensions and measures
- Tableau generates analytical visualizations

Tableau is used to create visualizations such as:

- Scatter plots (Economic Freedom vs GDP per Capita)
- Bar charts (Country comparison)
- Heatmaps (Indicator relationships)
- World map visualizations (Country-wise distribution)

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## 3. Output

After processing, the system generates the following outputs:

- Tableau Dashboard — interactive analytical view combining multiple charts
  - Tableau Story — step-by-step explanation of findings
  - Tableau Public Link — published online dashboard accessible to users

These outputs present relationships between economic freedom indicators and national prosperity measures.

## 4. End User

The end users include:

- Students
  - Researchers
  - Policy analysts
  - Academic instructors

Users interact with the dashboard to:

- Compare countries
  - Identify economic patterns
  - Interpret economic development
  - Support academic discussion and research

