

Business Question and Visualization Report

Date	02 OCT 2025
Team ID	PNT2022TMIDxxxxxx
Project Name	Malnutrition Analysis and Forecasting using Power BI
Maximum Marks	5 Marks

Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. The goal is to transform complex datasets into visual formats that are easy to interpret, enabling users to gain insights and make informed decisions. Visualization development involves selecting appropriate visual elements, designing layouts, and using interactive features to enhance the user experience. This process is commonly associated with data visualization tools and platforms, and it plays a crucial role in business intelligence, analytics, and reporting.

Business Questions and Visualisation

The process involves defining specific business questions to guide the creation of meaningful and actionable visualizations in Power BI. Well-framed questions help in identifying key metrics, selecting relevant data, and building visualisation that provide insights.

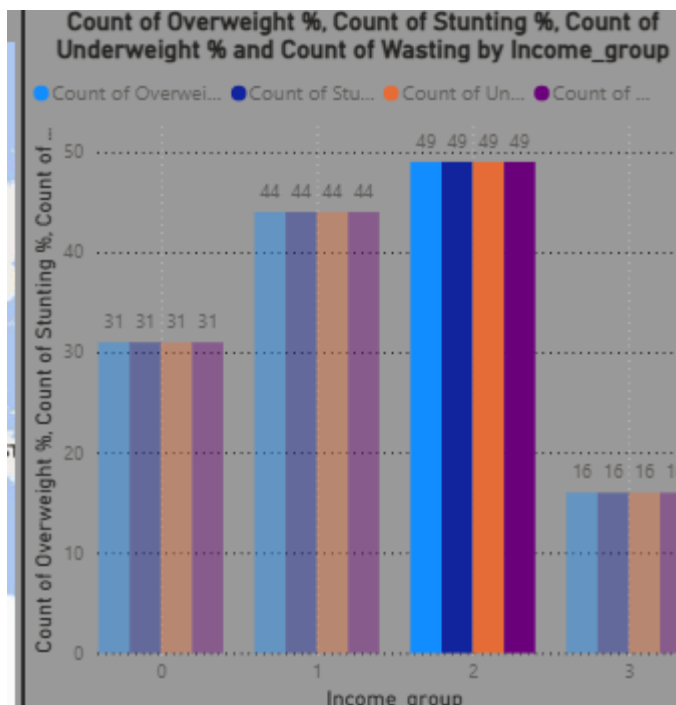
1. **What is the global average of malnutrition indicators (Stunting, Wasting, Underweight, Overweight)?**
 - **Visualization:** KPI Cards showing global averages



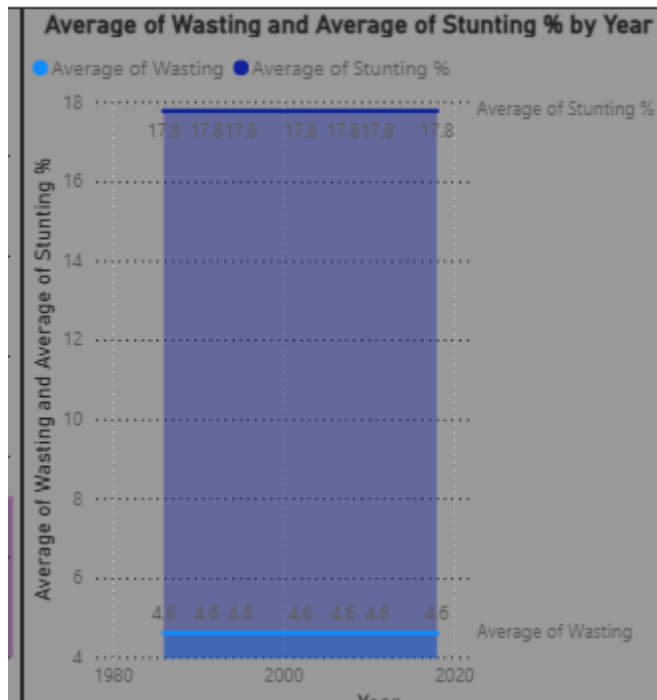
2. **Which regions/countries have the highest stunting prevalence?**
 - **Visualization:** World Map with countries color-coded by Stunting %



3. **How do malnutrition indicators vary across income groups (Low, Middle, High)?**
 - **Visualization:** Clustered Column Chart comparing average % by Income Group

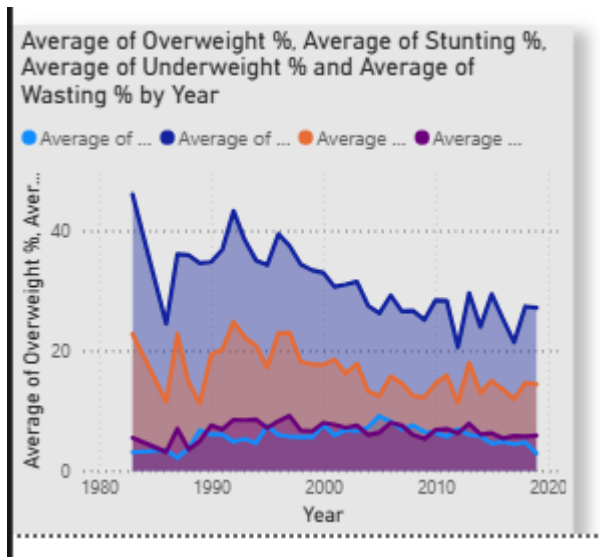


4. **What are the global trends of stunting and wasting over time?**
 - **Visualization:** Line Chart (Year vs Stunting %, Wasting %)



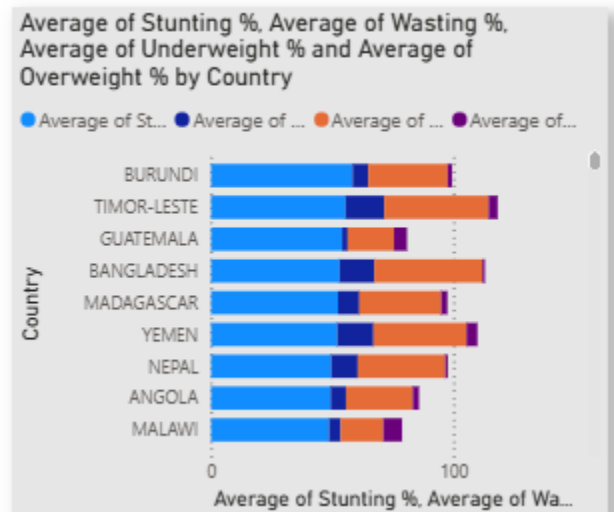
5. What is the malnutrition profile of a selected country?

- **Visualization:** KPI Cards + Line Chart filtered by slicer (Country, Year)

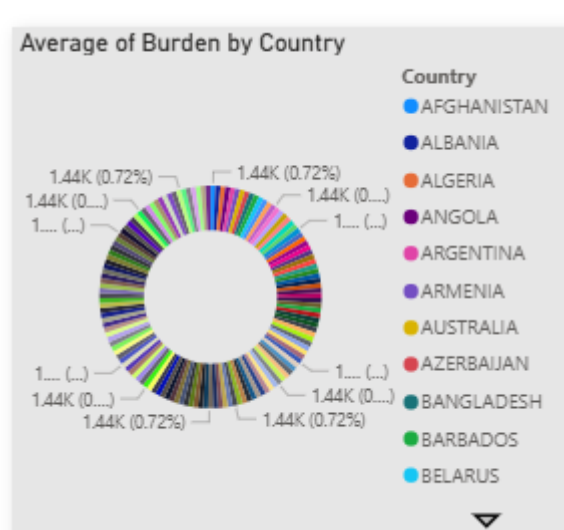


6. How does a country compare to the global average and its income group average?

- **Visualization:** Bar Chart comparing Country vs Global vs Income Group

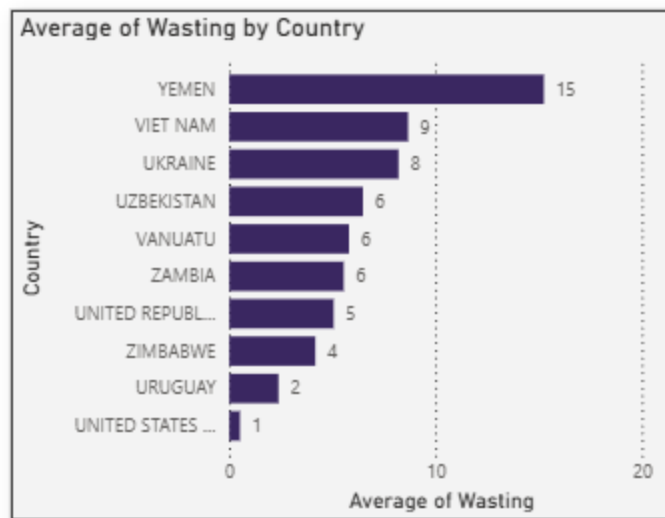
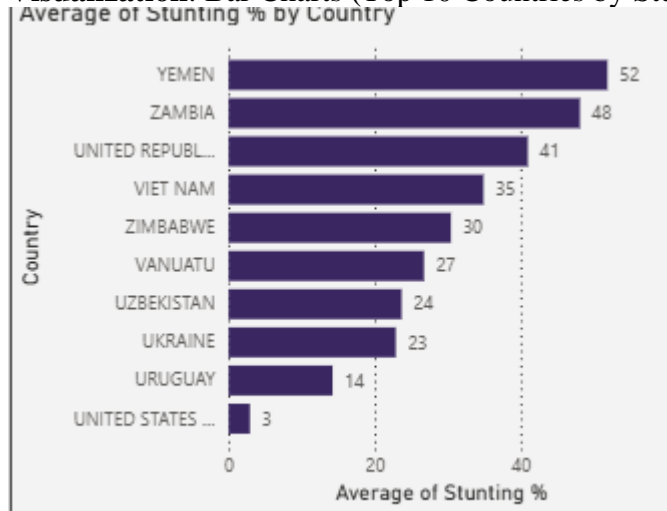


7. What is the contribution of a country to the global burden of stunting?
 - Visualization: Donut/Pie Chart (Country's burden % of global total)



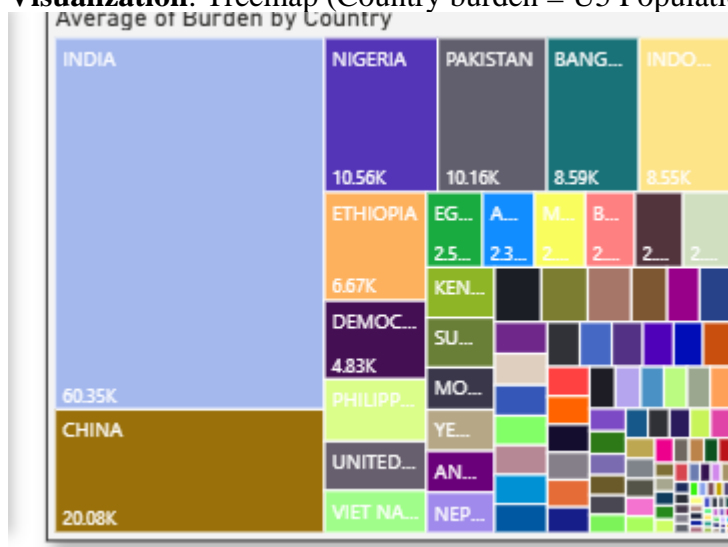
8. Which are the top 10 countries with the highest stunting and wasting rates?

- **Visualization:** Bar Charts (Top 10 Countries by Stunting %, by Wasting %)



9. Which countries contribute the most to the global child malnutrition burden (absolute numbers)?

- **Visualization:** Treemap (Country burden = U5 Population × Stunting %)



10. How are different indicators related (e.g., Stunting vs Underweight)?

- **Visualization:** Scatter/Bubble Chart (X=Stunting %, Y=Underweight %, Size=U5 Population, Color=Income Group)

