



# Global Disease Analysis

## Summary

Global Disease Analysis is an interactive Tableau BI project designed to analyse worldwide disease patterns, mortality trends, demographic disparities, and future projections.

The project brings together global health indicators to help users understand how diseases impact different regions, age groups, income levels, and genders. It includes KPI dashboards, geographical insights, mortality breakdowns, disease trajectories, and predictive analytics extending to 2025.

This project showcases strong data analysis, visual storytelling, and business intelligence skills using Power BI.

### **Global Disease Analysis – Tableau BI Dashboard**

This Power BI project provides a comprehensive analytical view of global health and disease trends. It pulls together multiple visual layers from mortality maps and disease distributions to demographic inequality and forecasting to offer meaningful insights into global public health.

#### **Global Disease Analysis**

##### **Key Features**

###### **1. Interactive KPI Dashboard**

- KPI 1: Year-over-Year Performance showing trends, spikes, and declines in global mortality.
- KPI 2: Regional Performance Comparison across African, American, European, Eastern Mediterranean, South-East Asian, and Western Pacific regions (page 7).
- KPI 3: Gender Disparity Index illustrating male vs female mortality differences (page 1).

## 2. Global Geographic Insights

- Global Mortality Map highlighting countries with the highest and lowest mortality rates (page 2).
- Global Event Sentiment Map gives additional perspective on worldwide sentiment patterns (page 2).

## 3. Disease Distribution & Forecasting

- Disease Pareto Chart visualizing how a small number of diseases contribute to most of the mortality (page 3).
- Top 5 Disease Projections Until 2025 using line-forecasting with confidence intervals (page 3).

## 4. Mortality Trends by Country & Income Level

- Global Adult Mortality Ranking across multiple nations such as Sierra Leone, Afghanistan, and others (page 4).
- Non-Disease Mortality by Income Group, analysing suicide rates, homicide rates, and road traffic injury data (page 5).

## 5. Decade-wide Disease Trajectories

- Top 10 Disease Trajectories Across 1990–2010 showing how disease burdens shifted over time (page 4).

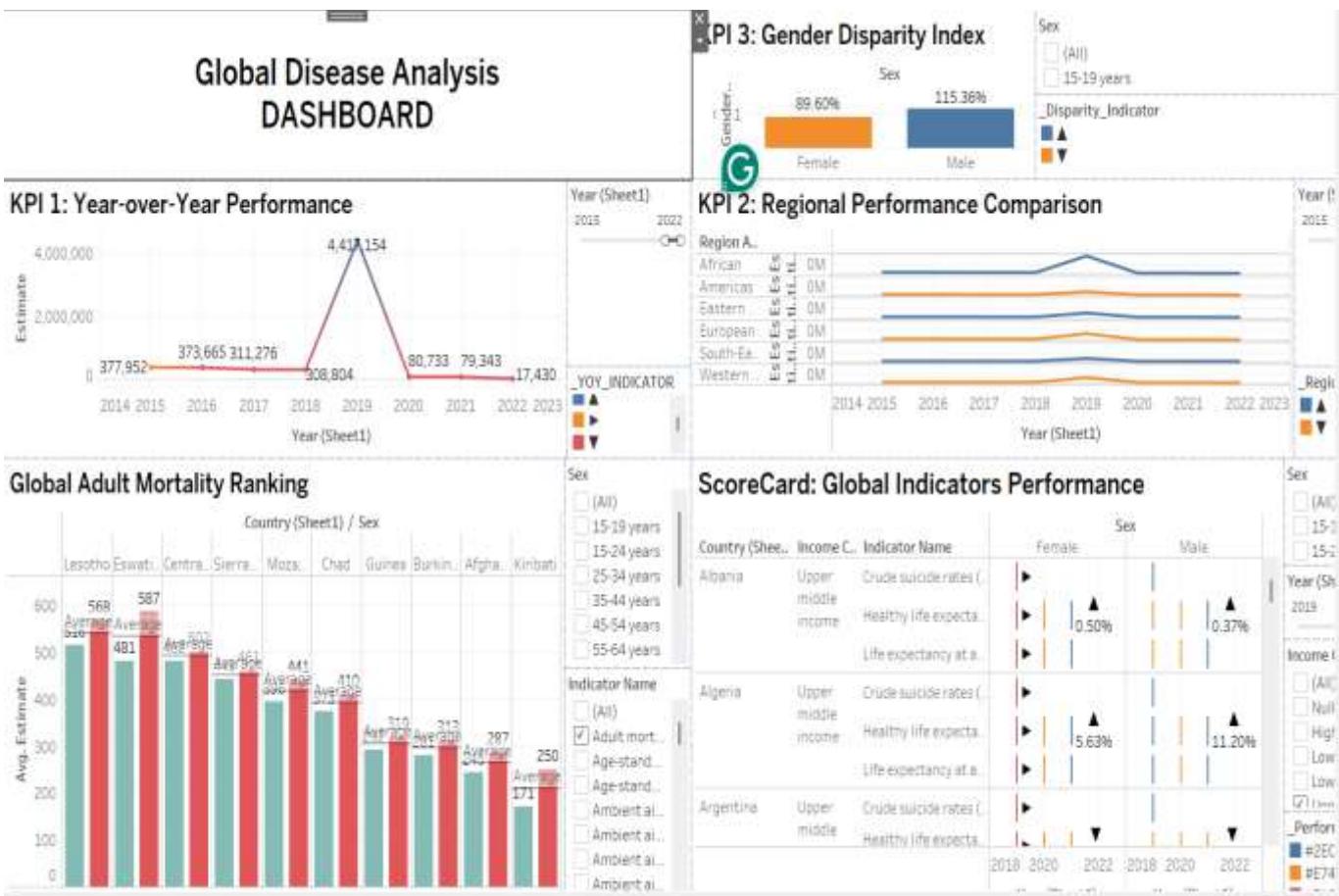
## 6. Longevity Outlook

- Life expectancy projections for 60+ age groups categorized by income level (page 5).

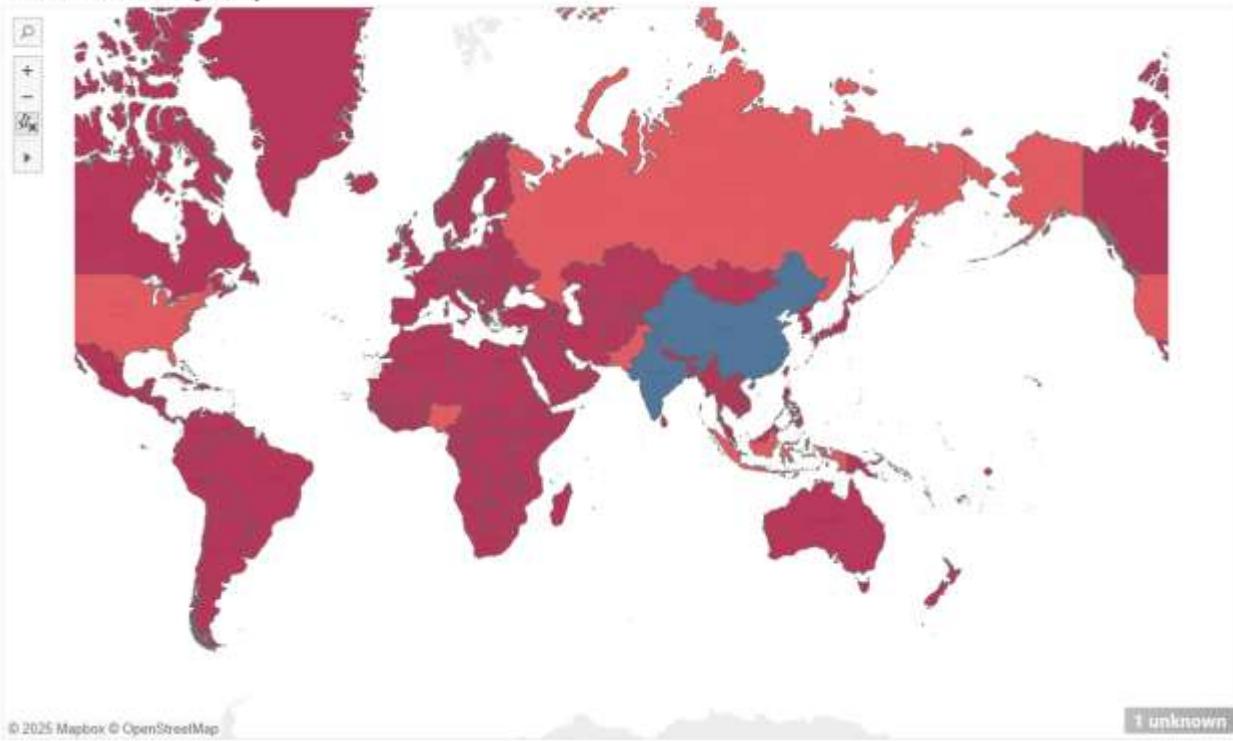
## 7. Scorecards for Global Indicators

- A detailed ScoreCard highlighting individual country performance across various health indicators (page 6).

## Global Disease Analysis DASHBOARD



## Global Mortality Map



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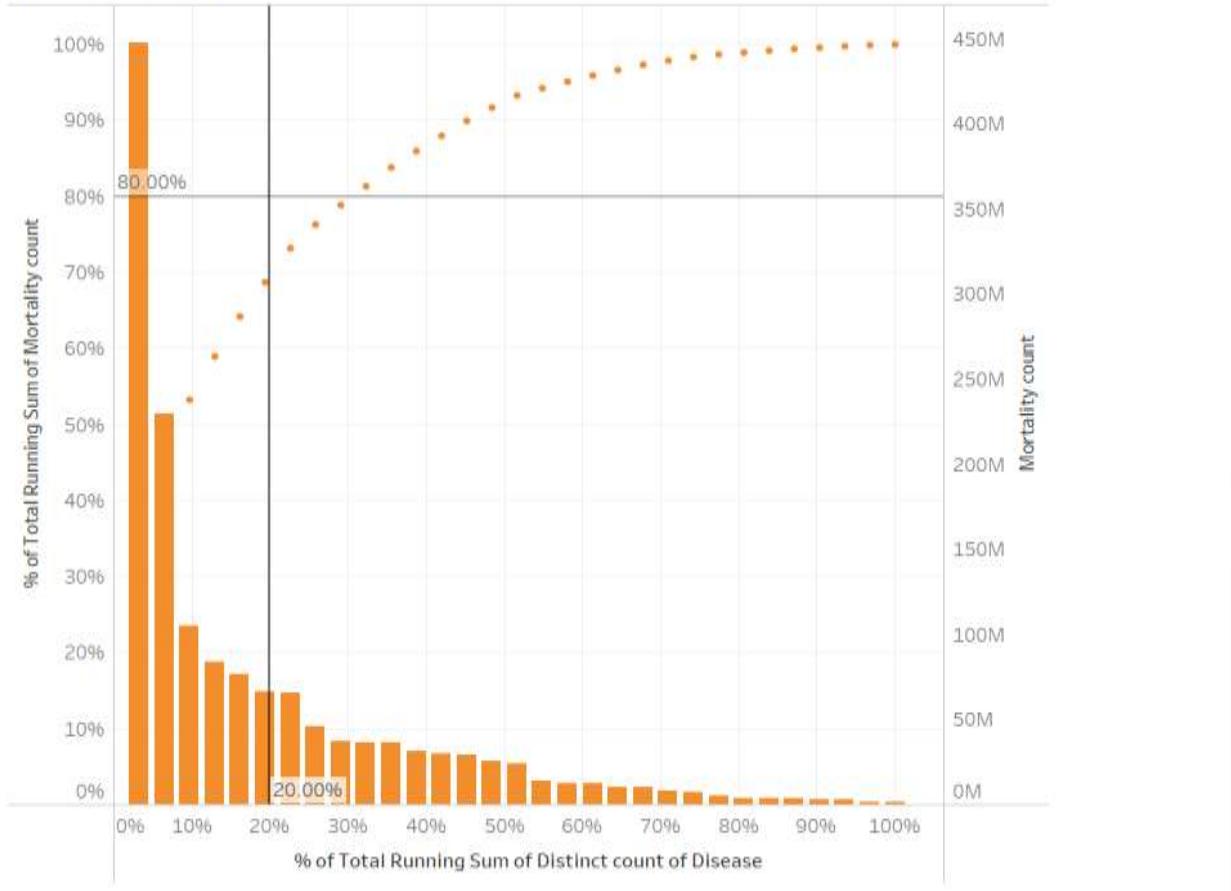
## Global Event Sentiments



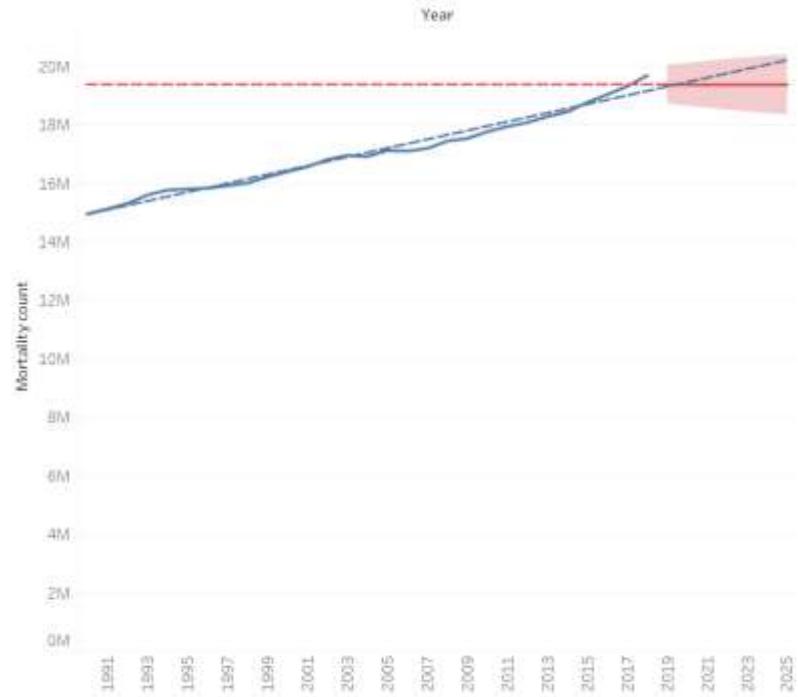
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## Disease Pareto



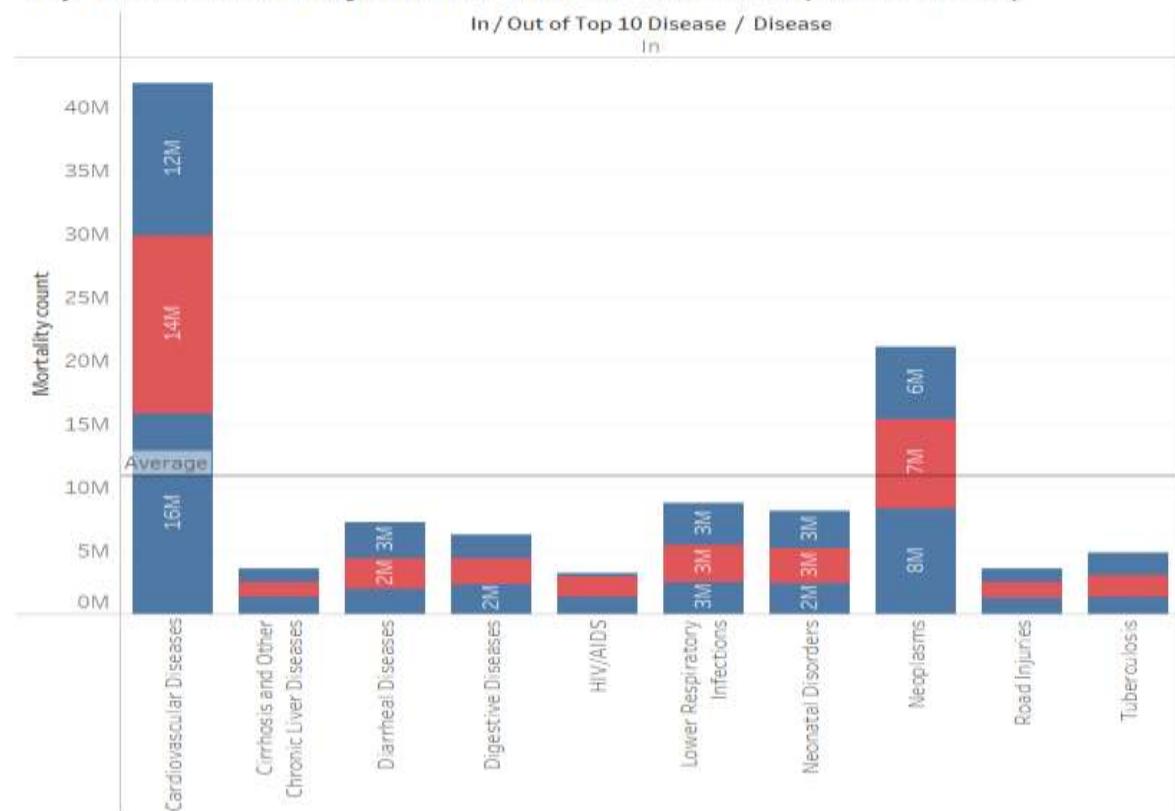
## Top 5 Disease Projections Till 2025



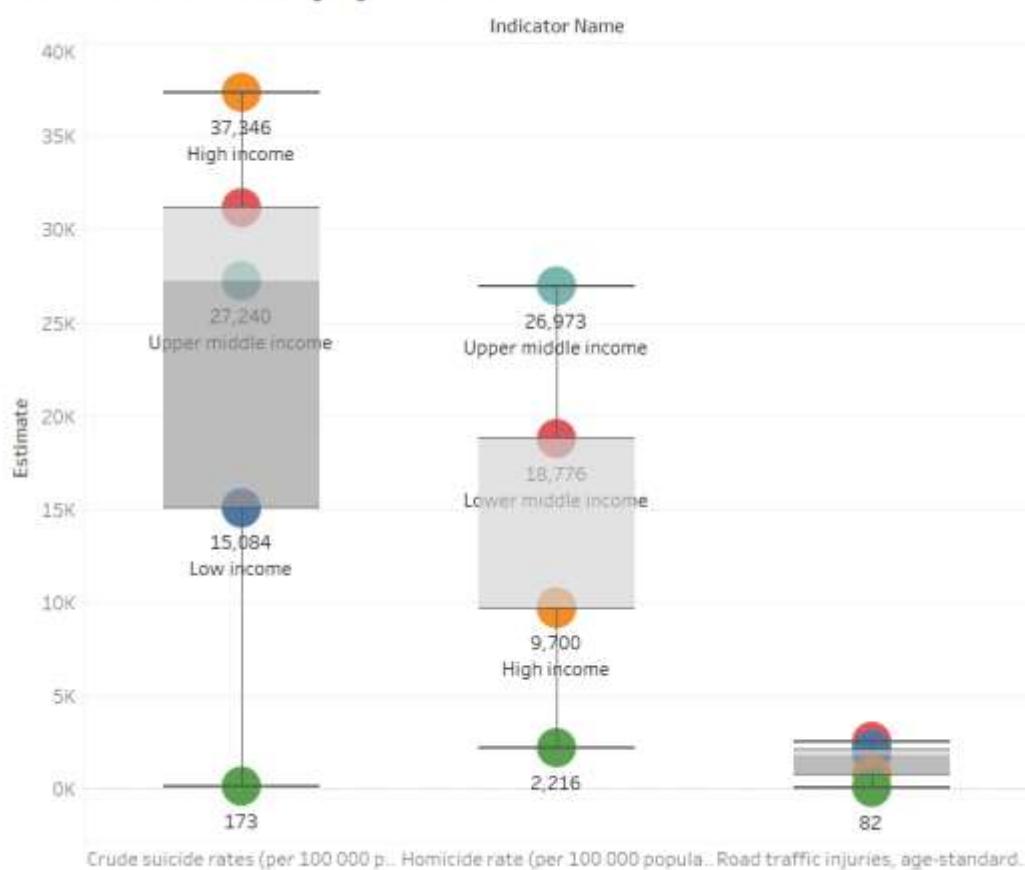
## Global Adult Mortality Ranking



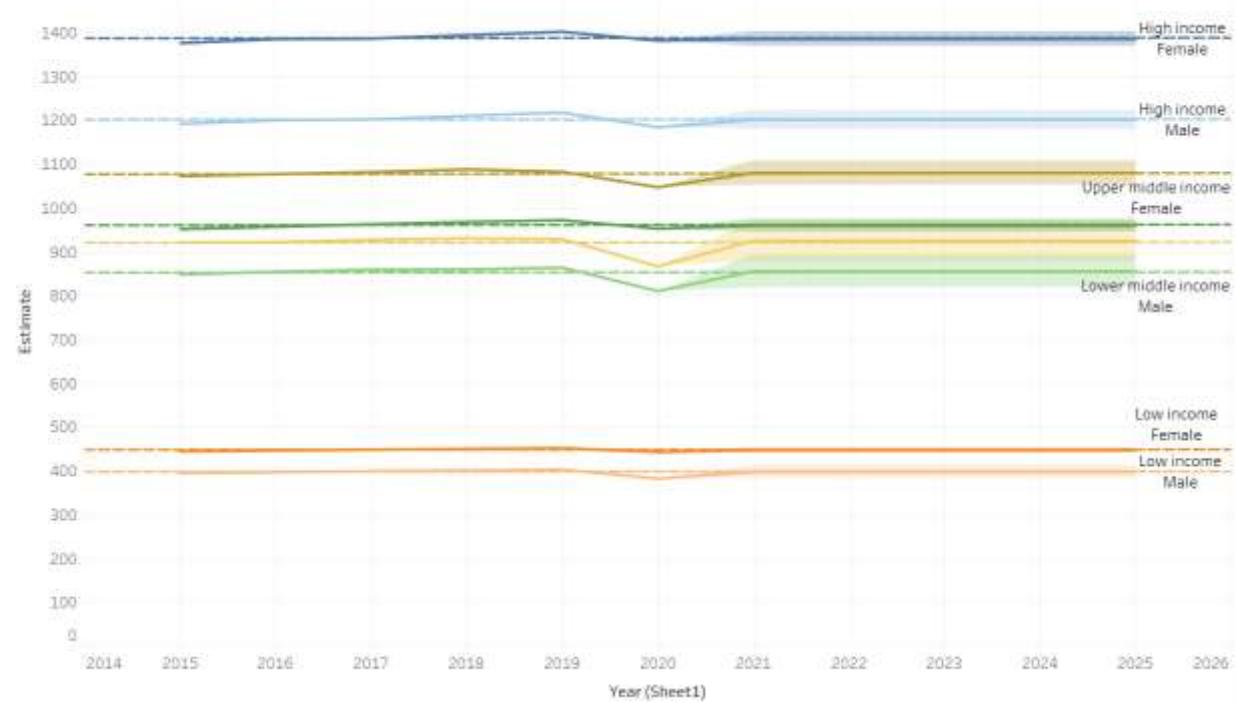
## Top 10 Disease Trajectories Across Decades (1990-2010)



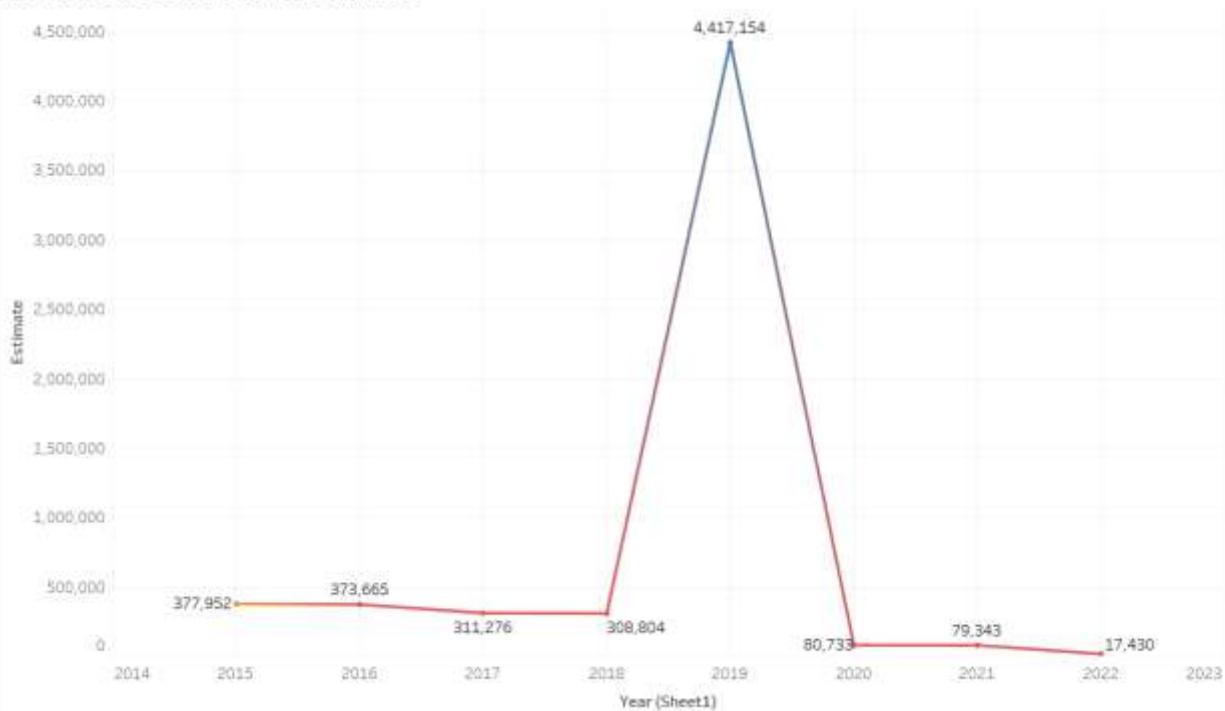
## Non-Disease Mortality by Income



## Longevity Outlook (60+ age)



### KPI 1: Year-over-Year Performance



### ScoreCard: Global Indicators Performance

Country (Shee...	Income C...	Indicator Name	Sex				
			Female		Male		
Albania	Upper middle income	Crude suicide rates (...	▼		▲		
		Healthy life expecta...	▼	-4.19%	▼	-5.98%	
		Life expectancy at a...	▼	0.50%	▼	-7.83%	
Algeria	Upper middle income	Crude suicide rates (...	▼		▲		
		Healthy life expecta...	▼	-7.34%	▲	71.04%	
		Life expectancy at a...	▼	5.63%	▼	12.70%	
Argentina	Upper middle income	Crude suicide rates (...	▼		▲		
		Healthy life expecta...	▼	-2.44%	▼	2.47%	
		Life expectancy at a...	▼	-5.80%	▼	-5.19%	
Armenia	Upper middle income	Crude suicide rates (...	▼		▲		
		Healthy life expecta...	▼	-8.91%	▼	-16.56%	
		Life expectancy at a...	▼	-2.46%	▼	-12.68%	
Azerbaijan	Upper middle income	Crude suicide rates (...	▼		▲		
		Healthy life expecta...	▼	-8.89%	▼	0.21%	
		Life expectancy at a...	▼	-2.68%	▼	-13.16%	
Belarus	Upper middle income	Crude suicide rates (...	▼		▲		
		Healthy life expecta...	▼	▼	▼	▼	
		Life expectancy at a...	▼	▼	▼	▼	
			2018	2019	2020	2021	
			2018	2019	2020	2021	
			Year (Sheet1)	Year (Sheet1)	Year (Sheet1)	Year (Sheet1)	

## KPI 2: Regional Performance Comparison

