

Overview and Scope of COVID - 19 Analysis Report

Introduction

Welcome to the comprehensive analysis report on COVID-19 impact and healthcare indicators in India. This report aims to provide a detailed exploration of key metrics related to epidemiological trends, vaccination coverage, healthcare infrastructure, and socio-economic indicators. By examining these factors we seek to gain insights into the evolving landscape of public health and policy applications.

Objective

The primary objective of this report is to analyze and visualize data pertaining to Covid-19 cases, vaccination efforts, hospital infrastructure in India. Through this analysis, we aim to highlight trends, patterns, and correlations that can inform decision-making and policy development.

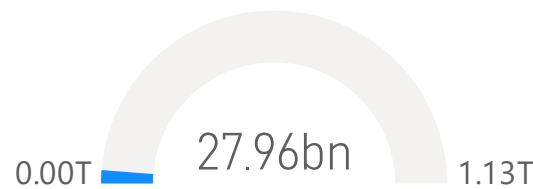
Structure

1. Epidemiological Metrics: Analyze trends in COVID-19 cases, recoveries, fatalities over the years.
2. Vaccination Metrics: Evaluate vaccination coverage, including doses administered and population coverage.
3. Healthcare Infrastructure: Assess the availability of hospital beds and handwashing facilities over time.
4. Human-Development Index: Explore socio-economic factors such as GDP per capita, prevalence of smoking, and age demographics.
5. Conclusion and Recommendations: Summarize key findings and provide actionable insights for the analysis.

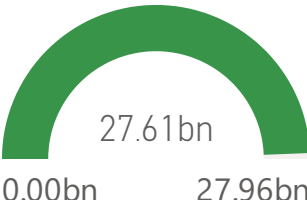


Epidemiological Matrix

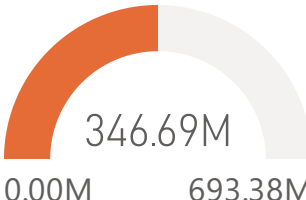
Total cases



Recoverd case



Total death



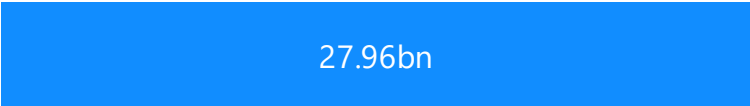
34.41M

New case

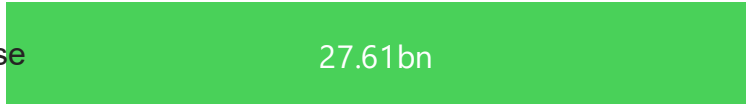
374.41K

New death

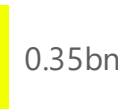
Sum of case



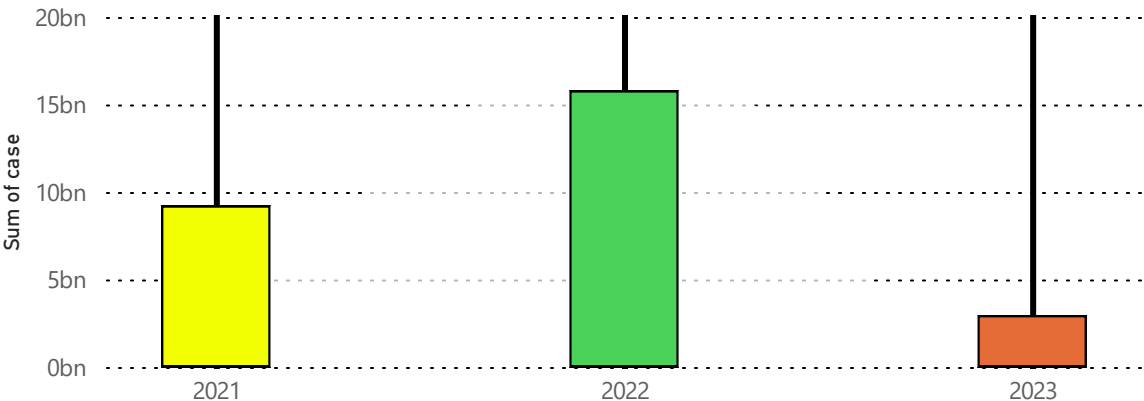
Sum of recoverd case



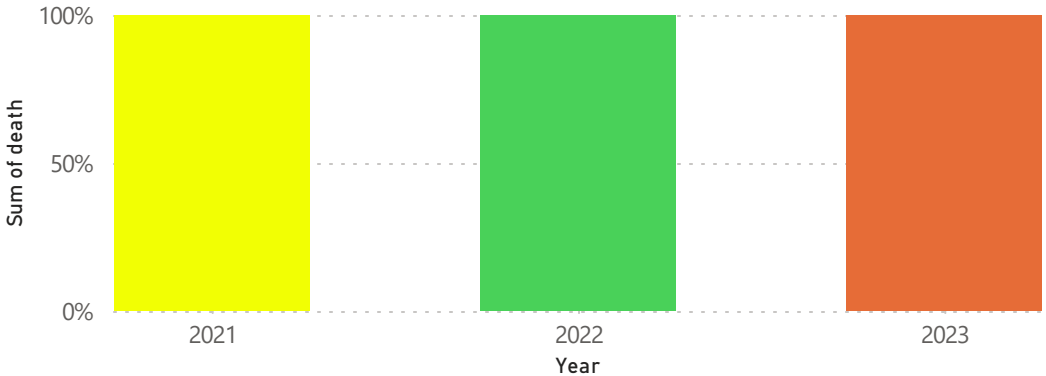
Sum of death



Total cases



Sum of death by Year



21.30

Sum of positive rate

Year

2021

2022

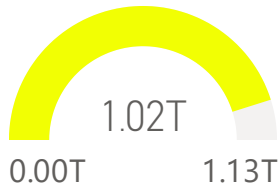
2023



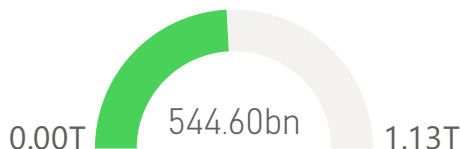
Vaccination Metrics Overview



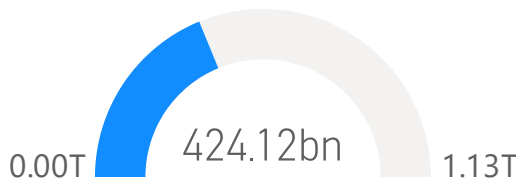
Total vaccination



People vaccinated



People fully vaccinated

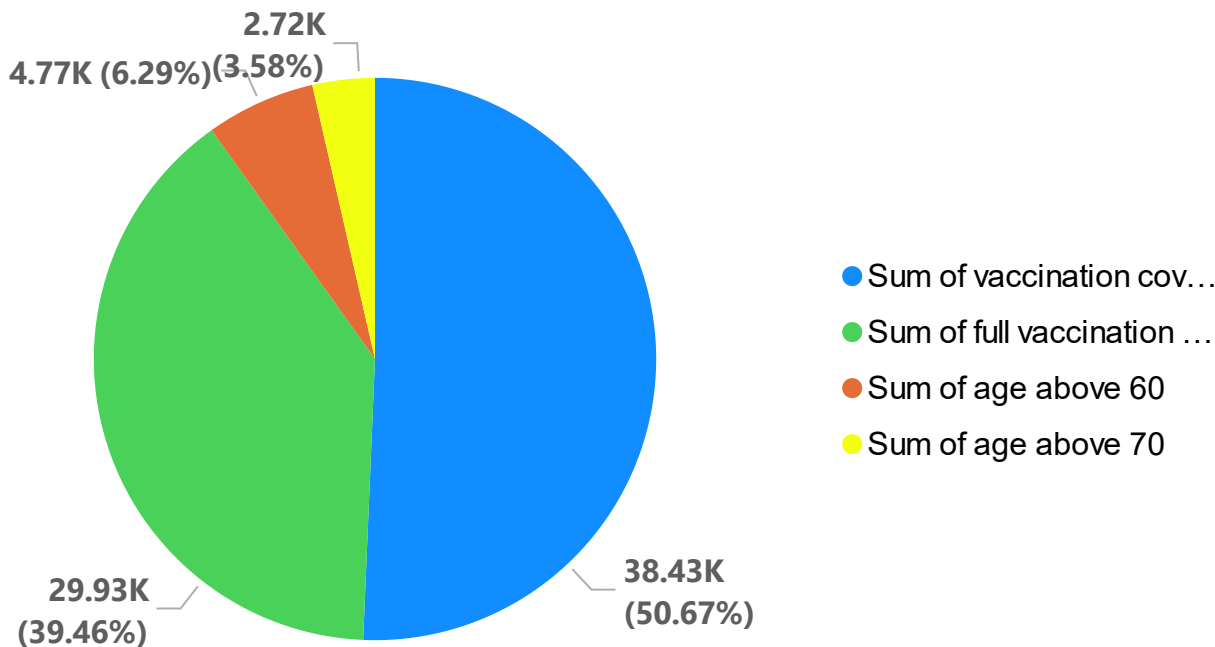


Vaccination coverage

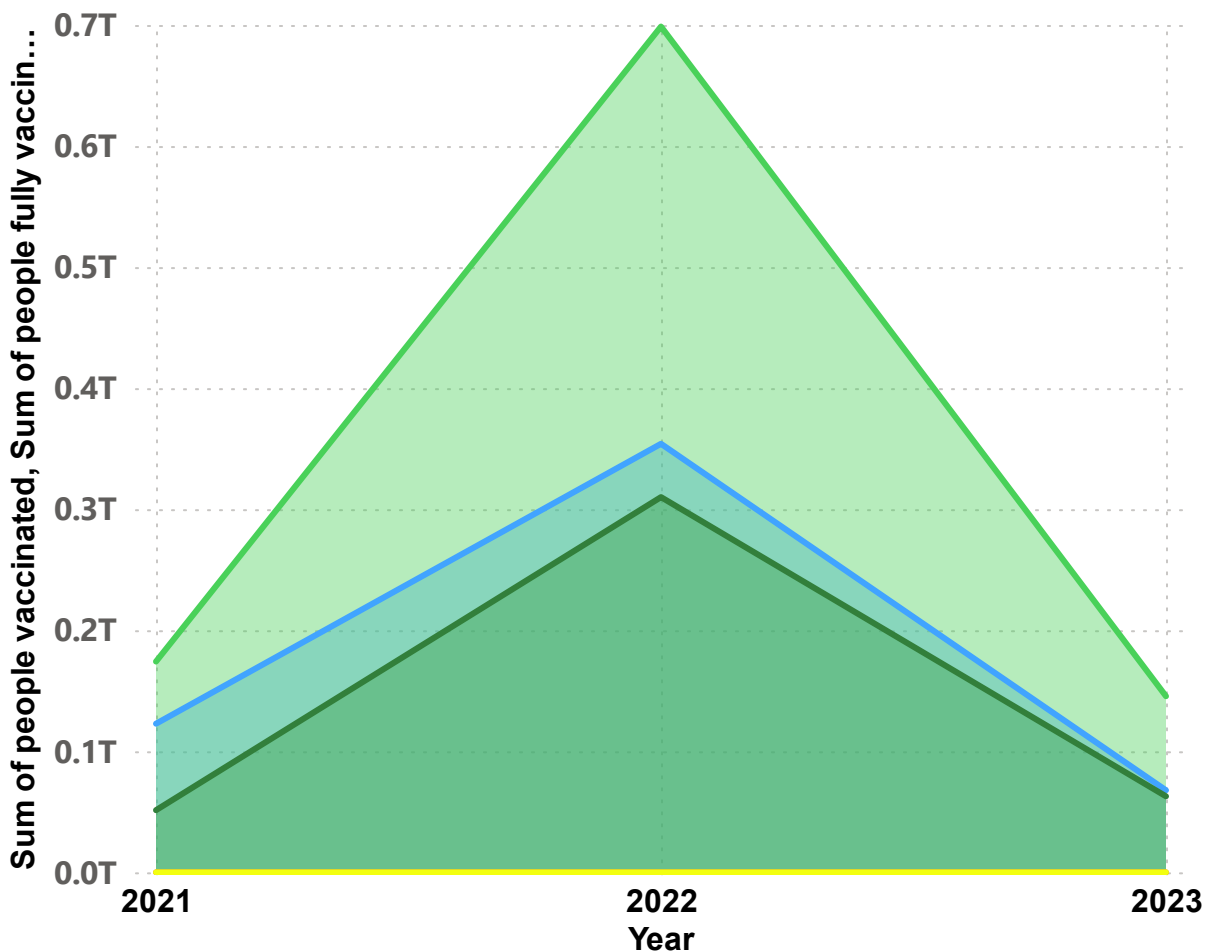
38.43K

fully vaccination coverage

29.93K



Sum of people v... Sum of people f... Sum of vaccinati... Sum of full va... Sum of total ...



Year

2021

2022

2023

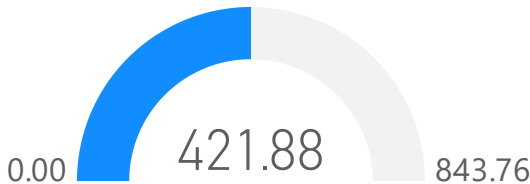


Healthcare Indicator

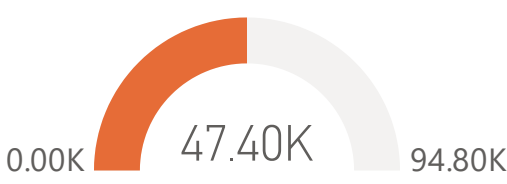
711.17

Sum of reproduction rate

Hospital bed per thousand



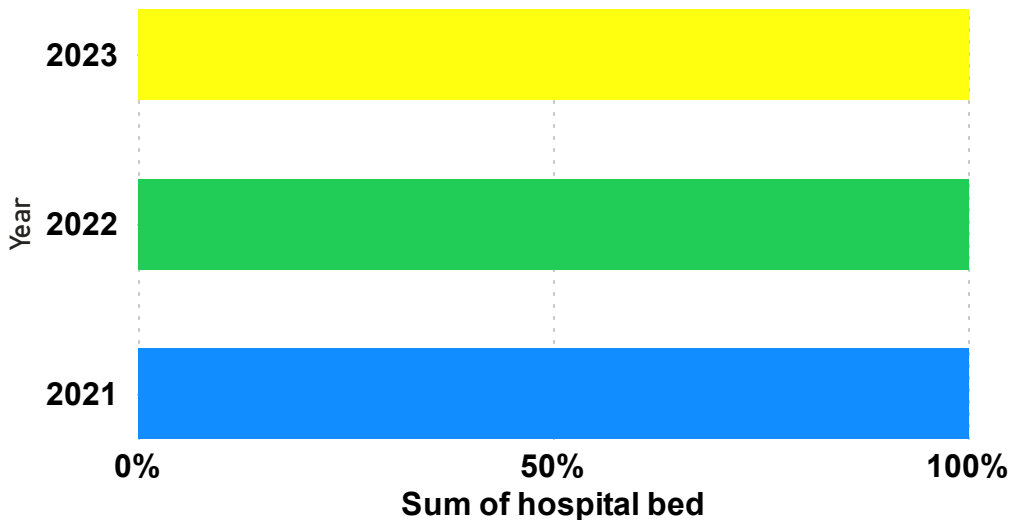
Handwashing facilities



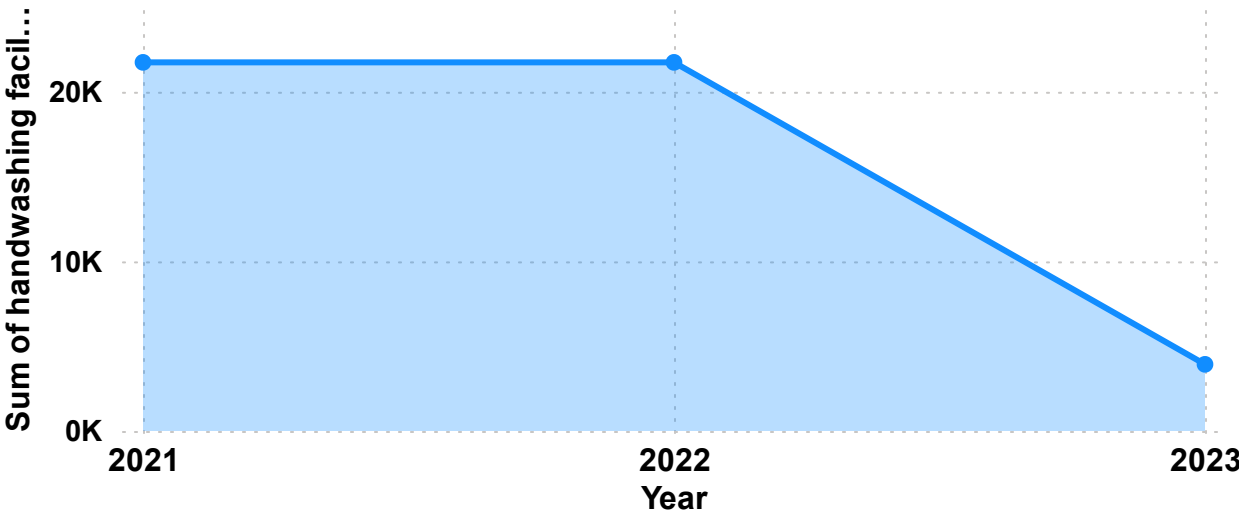
1.13T

Sum of population

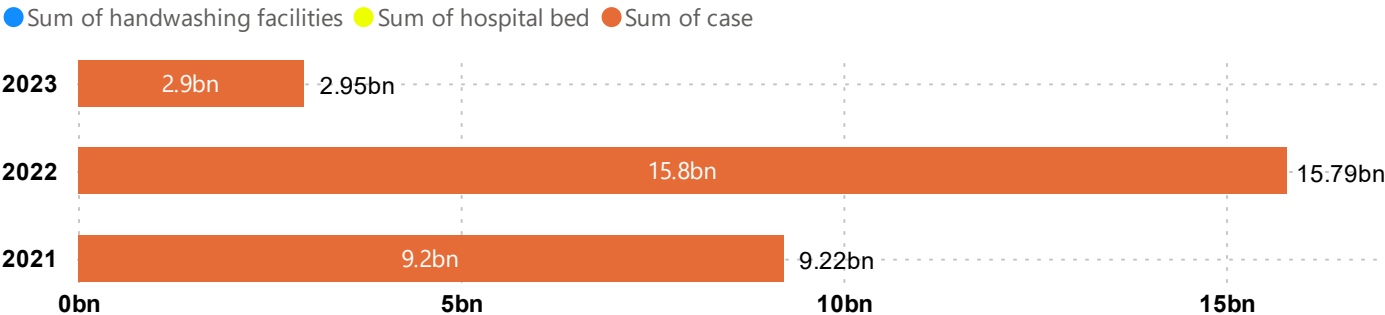
Sum of hospital bed by Year



Handwashing facilities



Sum of handwashing facilities, Sum of hospital bed and Sum of case by Year



Year

2021

2022

2023



Human Development



Sum of poverty

16.88K

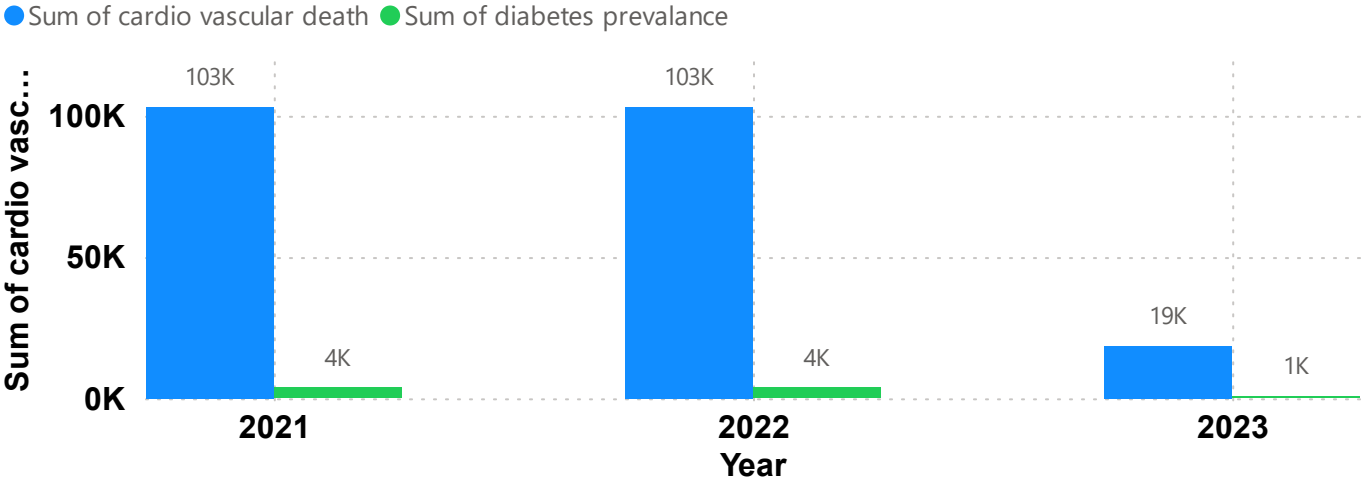
Sum of female smokers

1.51K

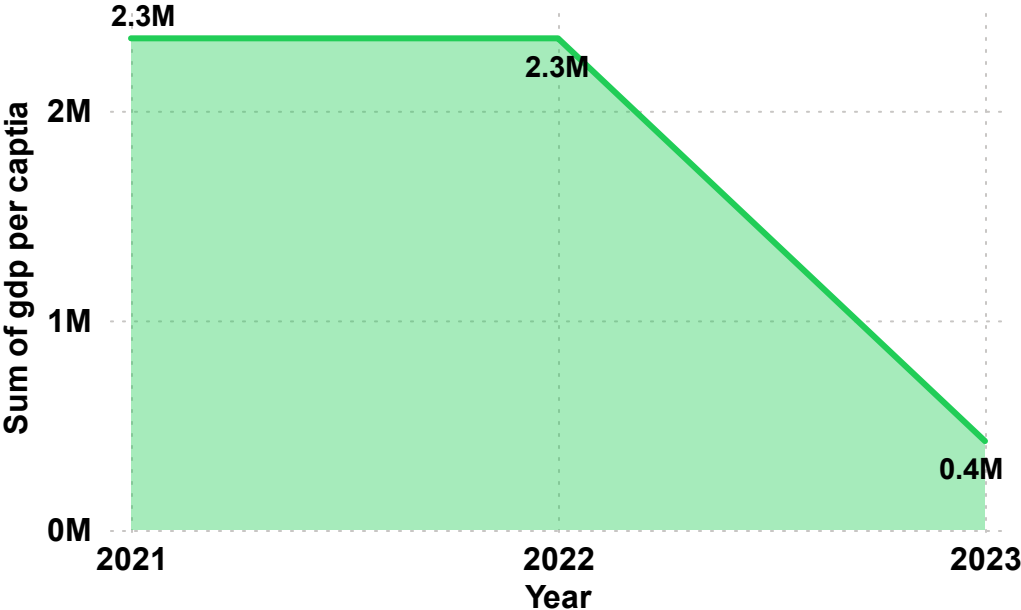
Sum of male smokers

16.40K

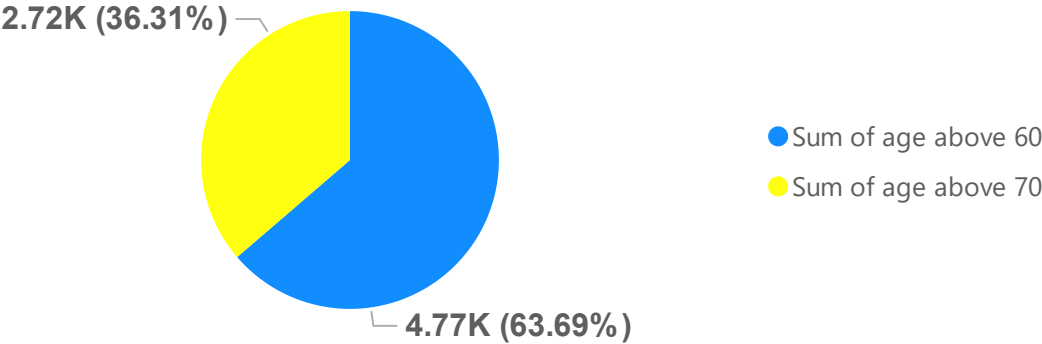
Sum of cardio vascular death and Sum of diabetes prevalence by Year



Sum of gdp per captia by Year



Sum of age above 60 and Sum of age above 70



Year

2021

2022

2023

Conclusion

1.Epidemiological Metrics

At 15793205908, **2022** had the highest Sum of case and was 435.51% higher than **2023**, which had the lowest Sum of case at 2949176951.

2022 had the highest Sum of case at 15793205908, followed by **2021** at 9215075561 and **2023** at 2949176951.

2.Vaccination Metrics

At 354020223320, **2022** had the highest Sum of people vaccinated and was 422.13% higher than **2023**, which had the lowest Sum of people vaccinated at 67802666418.

Sum of people vaccinated and total Sum of people fully vaccinated are positively correlated with each other.

2021 had 122780611620 Sum of people vaccinated, 51337935159 Sum of people fully vaccinated, and 8,663.83 Sum of vaccination coverage.

2022 had 354020223320 Sum of people vaccinated, 309975229898 Sum of people fully vaccinated, and 24,980.75 Sum of vaccination coverage.

2023 had 67802666418 Sum of people vaccinated, 62807577172 Sum of people fully vaccinated, and 4,784.23 Sum of vaccination coverage.

3.Healthcare Infrastructure

2021 and **2022** tied for highest Sum of handwashing facilities with 21,735.75, followed by 2023 at 3,930.30.

2021 had 21,735.75 Sum of handwashing facilities, **2022** had 21,735.75, and **2023** had 3,930.30.

Sum of handwashing facilities and total Sum of hospital bed are positively correlated with each other.