Early
Age Child Mortality

Source from Unicef

Capstone project 3

12/01/2021

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DATA PREPARATIONS

- Data Selections
- Data Cleaning, Data Transformation and Data Analysis
- Data report in Power BI Dashboard

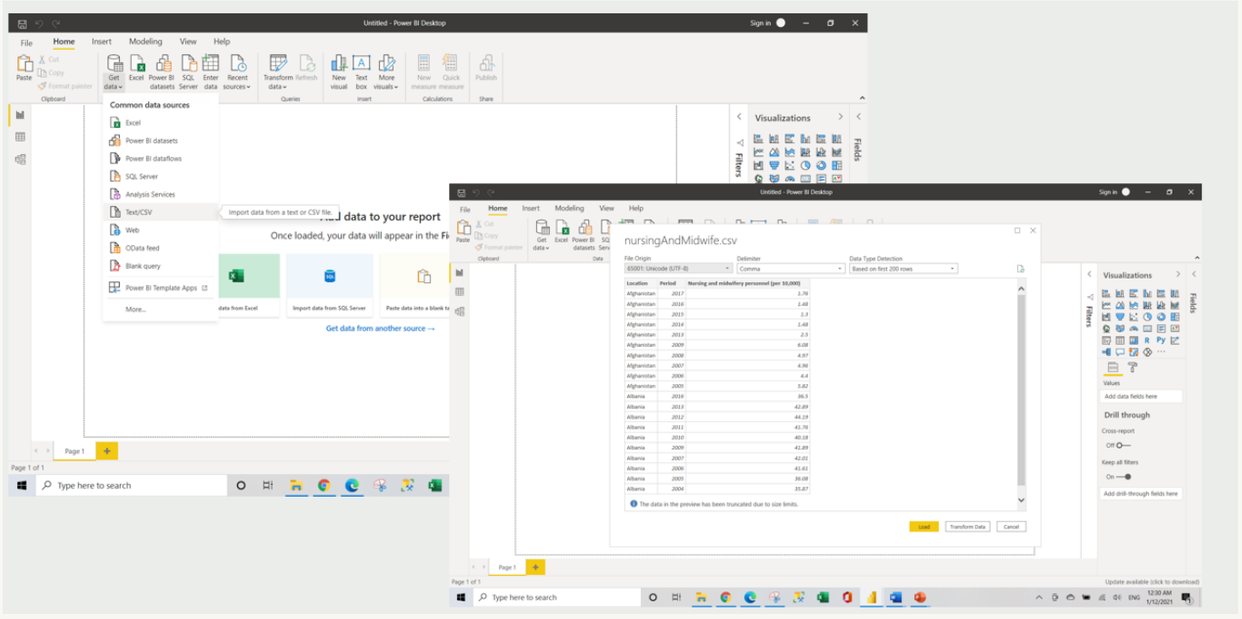
Source from Unicef

DATA SOURCES

- https://www.kaggle.com/lsind18/who-immunization-coverage
- https://www.kaggle.com/utkarshxy/who-worldhealth-statistics-2020-complete
- https://ourworldindata.org/grapher/causes-of-death-in-children-under-5
- https://databank.worldbank.org/reports.aspx?source=2&series=SP.POP.TOTL&country=
- https://data.unicef.org/?s=children&is_v=1

DATA CLEANING, TRANSFORM AND ANALYSE

1



1. Select data
2. Uploading to Power BI with csv / excell file
3. Cleaning the data by changing the header, remove nulls, append /merger the tables, formatting columns
4. Create relationship between tables

WORLD CHILDREN UNDER 5 YEARS OLD MORTALITY

1998 2019

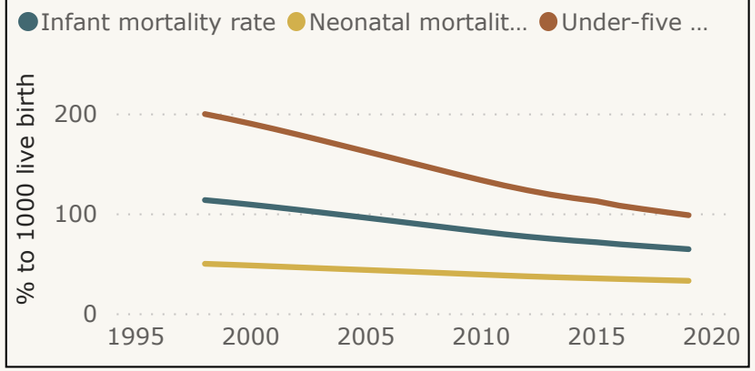
Country
- Afghanistan
- Albania
- Algeria
- Andorra

Region
- Africa
- Americas
- Eastern Mediterra...
- European
- South-East Asia
- Western Pacific
- World

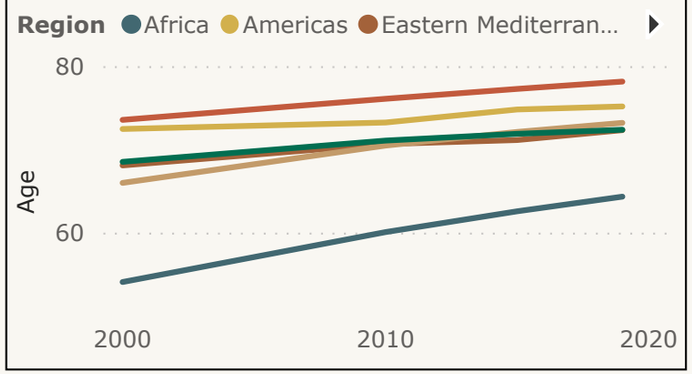
Neonatal Mortality Rate
12
0.00 12.85 25.70

Under 5 Mortality Rate
25
0.00 28.05 56.10

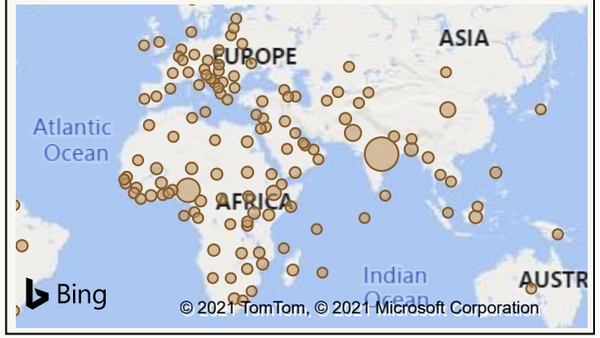
Child Mortality Rate under 5 years old



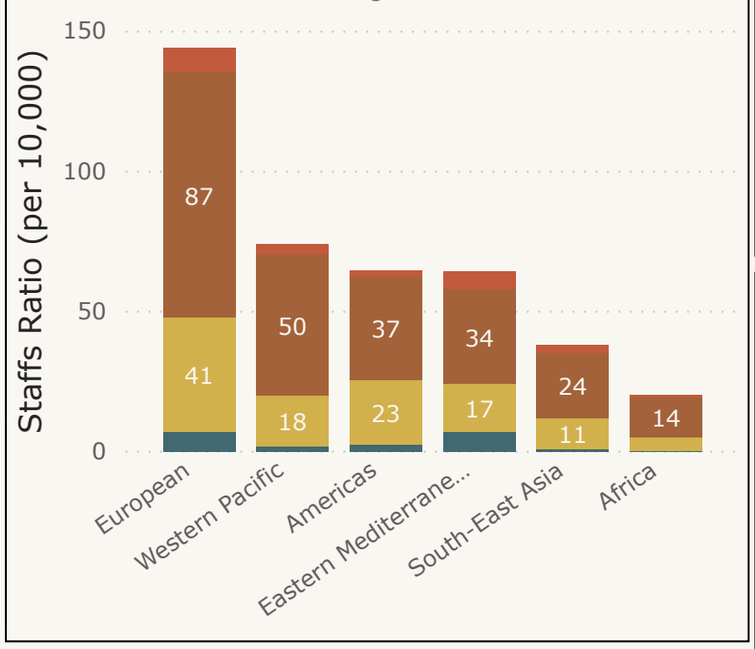
Life expectancy at birth (years)



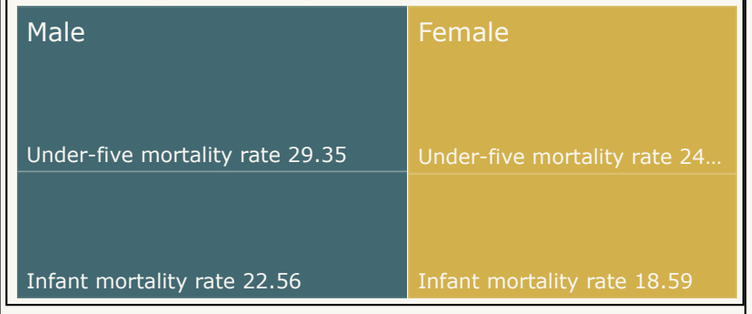
World Child Death under 5 years old



Medical Services



Mortality Rate by Gender



Life Expectancy at Birth

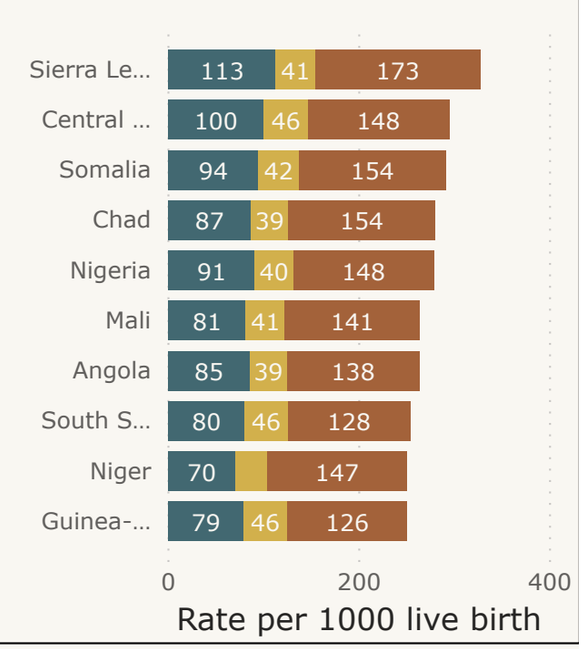
Female
75.50

Male
70.82

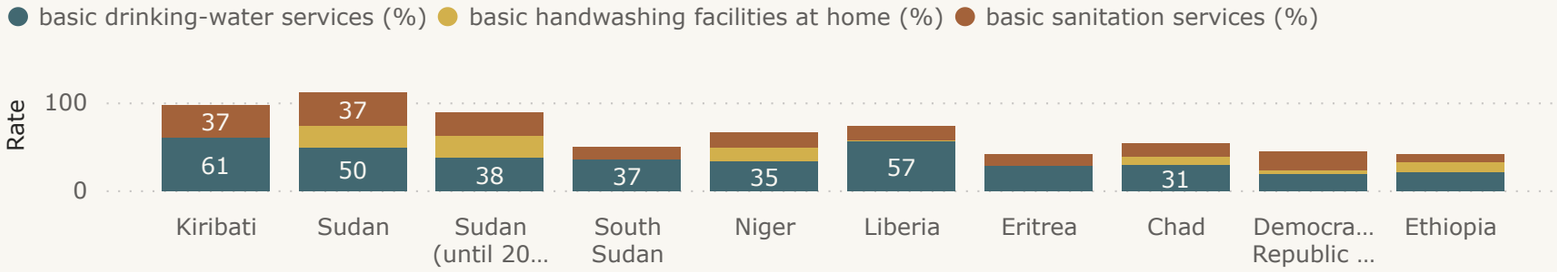
Under 5 years old

128.98M
Number of Death

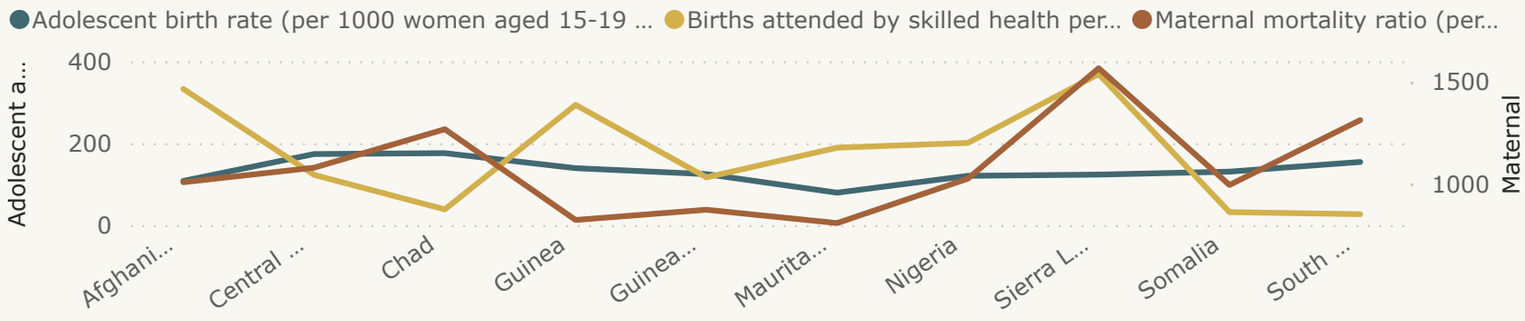
Mortality Rate



Population to Hygiene Access



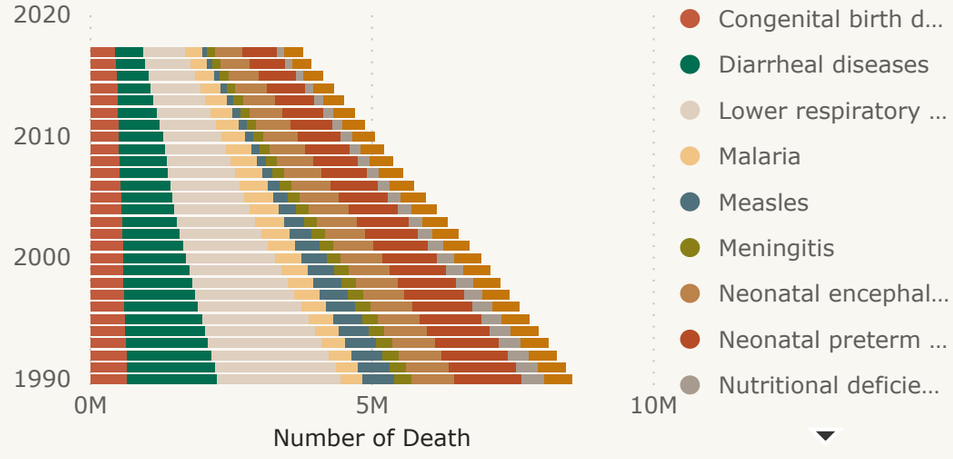
Adolescent birth rate, and Maternal mortality ratio



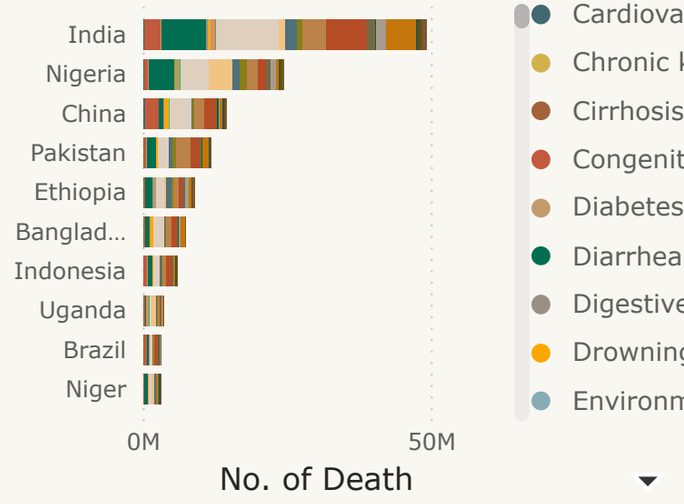
Population Ratio of Health spending

Country	GDP per capita	10% of Income	25% of In
Kyrgyzstan		3.47	
Republic of Moldova		18.68	
Viet Nam		9.39	
Malawi	315.78	4.21	
Uganda	733.43	15.27	
Rwanda	745.34	1.15	
Mali	780.72	6.48	
Bangladesh	1,401.62	24.67	
Sri Lanka	3,886.29	5.42	
Belarus	5,022.63	9.16	
Suriname	5,539.12	4.87	
Colombia	5,870.78	8.19	
Peru	6,205.00	8.46	
Mexico	8,744.52	1.55	
Maldives	9,209.24	10.26	
Total	**2,385,004.30**		

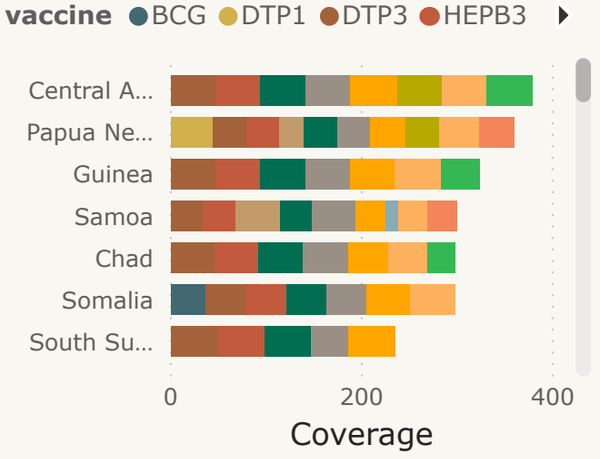
Child Death under 5 years old by Causes



Child Death Causes by Country



Immunization Coverage less than 70%



CONCLUSION

To achieve the WHO SDG 3.2 (Sustainable Development Growth) target in reducing the children mortality rate under 5 years old by 2030, some improvements needed as follows:

- Improve the health care services available to every one
- Improve the sanitary facilities in every home
- Encourage every parents to have their children to have vaccination
- Improve the environment by planting more trees, provide facilities to access clean water, clean toilet, reduce the number of malaria, tuberculosis
- Implement strict Law and Regulation for the environment pollution
- Discourage to have children marriage and adolescent birth
- Improve facilities for children friendly play ground (to reduce fatality accidents)