Tableau Project

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Project Flow Structure

1. Connecting the TB dataset to Tableau
2. Checking and correcting data types in Tableau
3. Building visualizations to learn more about the dataset
4. Trying to find patterns, trends, outliers, etc. from the data
5. Detecting meaningful keypoints
6. Coming up with different questions that are relevant to the data
7. Creating the dashboard that will answer my questions

Option 2 - iv) Tuberculosis Burden by Country

Features of the dataset included:

- Country/Territory names
- Year
- Estimated prevalence of TB (all forms)
- Estimated number of deaths from TB

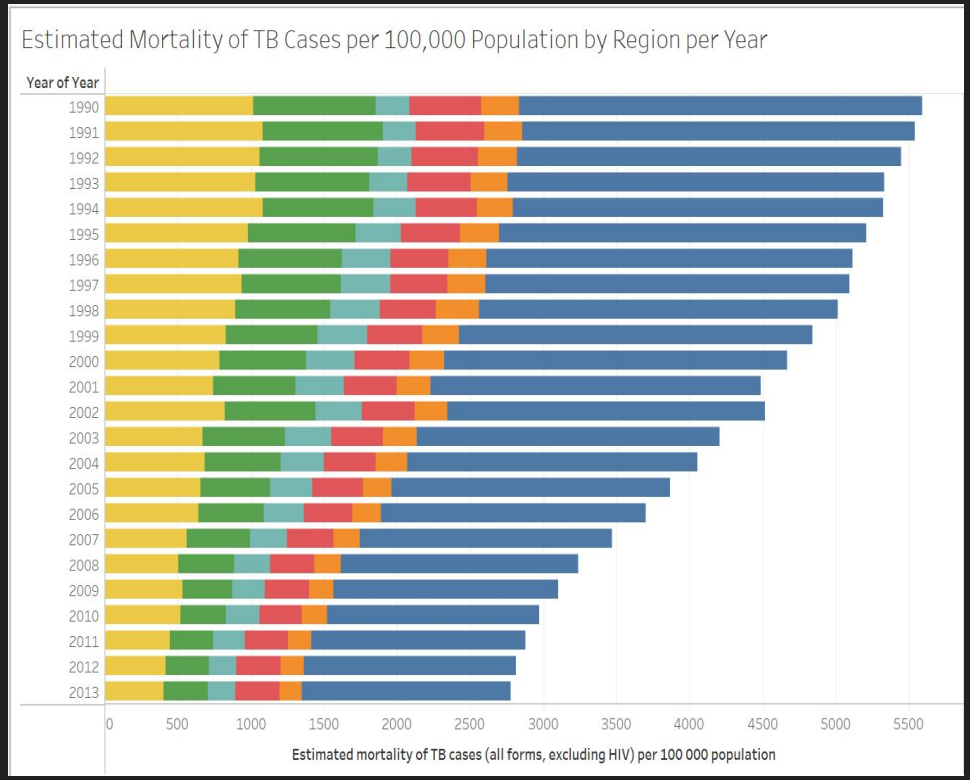
Main Data Question

Which region has been impacted the greatest from TB?

i) Which region(s) are impacted most heavily by the estimated prevalence of TB?

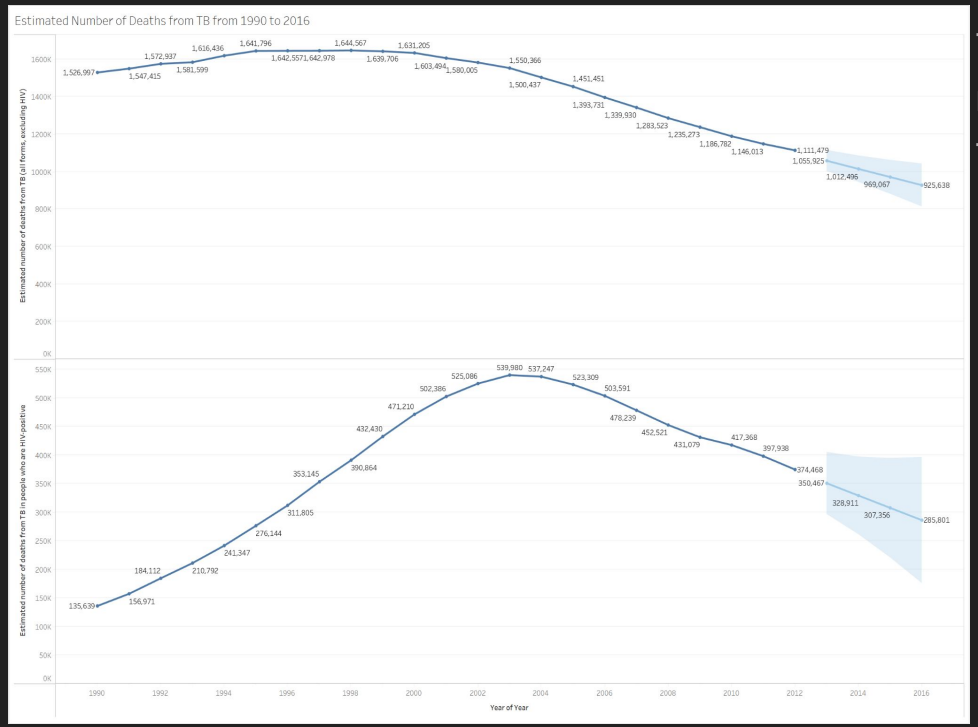
South-East Asia and the Western Pacific Region have the greatest estimated prevalence of all forms of TB.

ii) What trend (if any) can be seen in the mortality of TB cases?



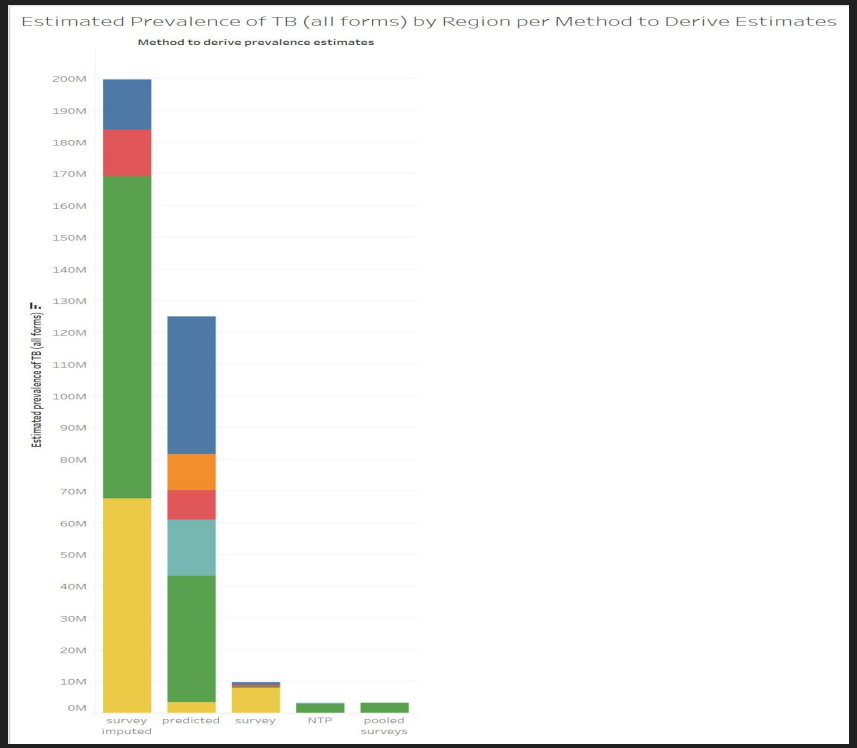
The mortality of TB cases (excluding HIV) has seen a consistent downward trend.

iii) What does the forecast number of deaths from TB show?



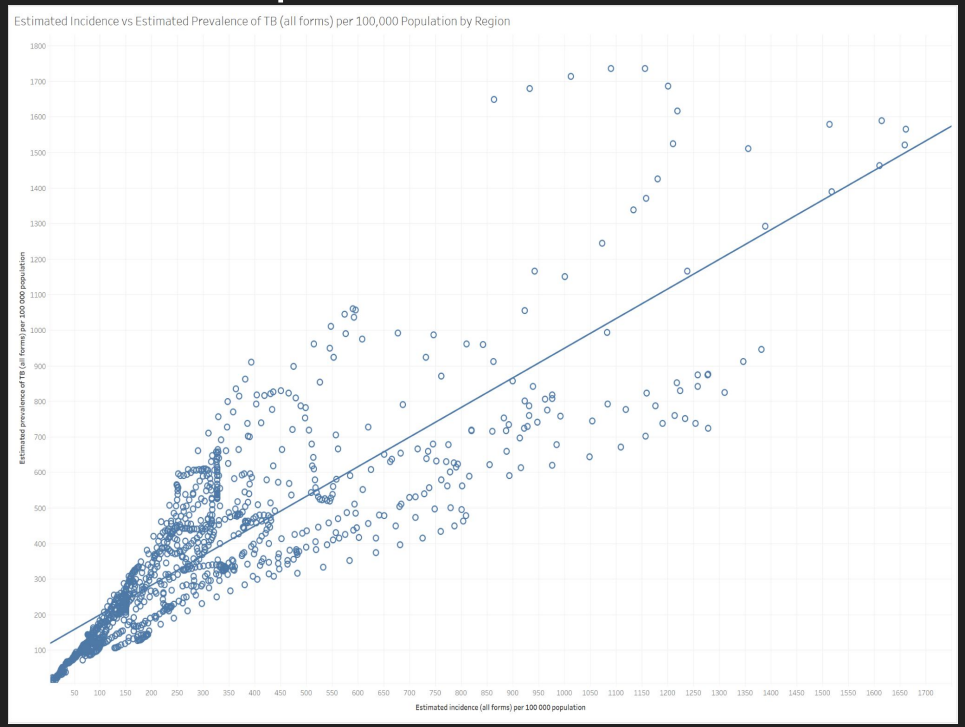
The number of deaths from TB in both HIV and non-HIV positive cases is forecasted to continue to decrease from 2013 to 2016.

iv) What method is used most to estimate the prevalence of TB?



The main method used to estimate the prevalence of TB in most regions is imputed surveys.

v) What relationship (if any) exists between the estimated incidence and estimated prevalence of TB?



The estimated incidence vs. estimated prevalence of TB shows a clear positive linear relationship, with an R-squared of approximately 0.72 for the African region (shown on the left).

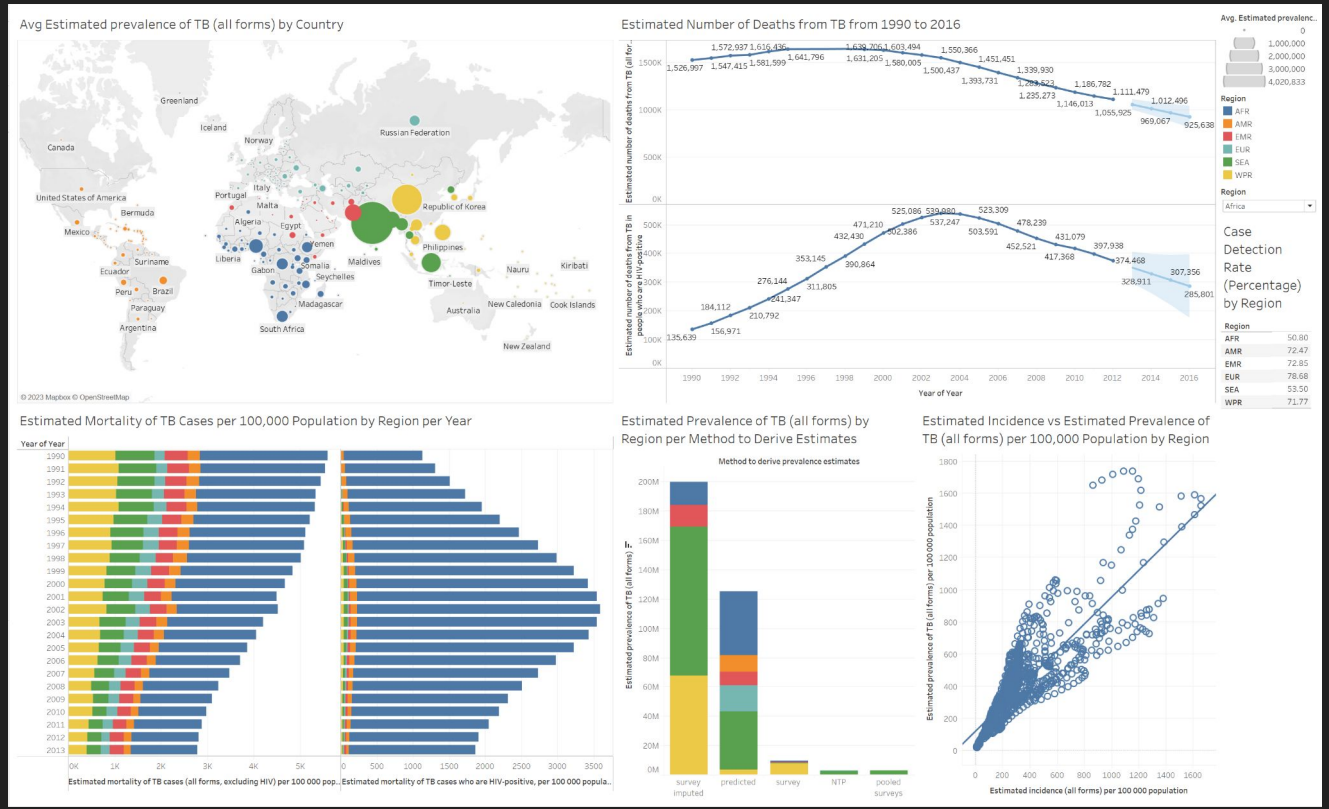
vi) Which regions have the lowest case detection rates?

Case Detection Rate (Percentage) by Region

Region	
AFR	50.80
AMR	72.47
EMR	72.85
EUR	78.68
SEA	53.50
WPR	71.77

Africa and South-East Asia have the lowest average case detection rates at 50.80% and 53.50% respectively.

My Dashboard:



Challenges

- Working with parameters, I need to experiment with them and calculated fields more, I found it very difficult to achieve what I wanted with them.
- Overall I need to work with graphs more, it was a bit of a steep learning curve for me.

Future Goals

- I would like to learn more about parameters and apply them in more intuitive ways to my dashboard.
- I would also like to increase the interactivity of my dashboard overall.