

The background features a series of concentric circles in light gray, some solid and some dashed, creating a ripple effect. A large, solid red speech bubble is centered on the page, pointing downwards. The text is contained within this bubble.

TB Burden of Disease

A Global and Regional Trend Analysis

Understanding the Data: A double-edged sword

- Understanding the data with a Non-medical background was a key process and the greatest challenge
- Documentation to the rescue.
- Difference between disease prevalence, disease incidence
- Understanding the different methods of derivation, especially Vital Registration (VR and VR Imputed)
- Understanding why so many columns repeated themselves and used 'per 100 000 population
- Missing data and lots of countries clouded trends
- Inspired me to focus on regional differences and global trends

UNDERSTANDING AND USING TUBERCULOSIS DATA

Main Questions

What similarities and differences existed between the most and least burdened regions?

What, if anything, could be done to help?



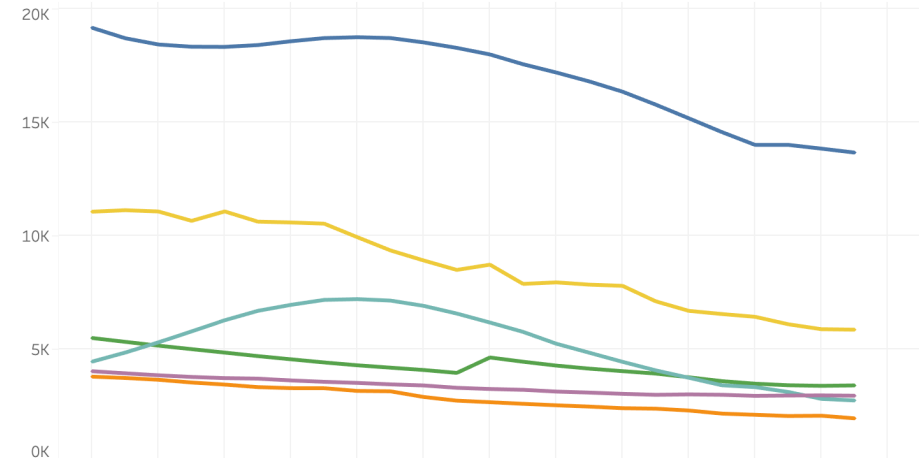
Identifying Regional Trends and More Questions

- Africa by far most heavily burdened region by TB in prevalence, incidence, and mortality.
- Similar shape to best overall region Europe except for mortality.
- What is working for Europe? Can it be transferable to Africa?

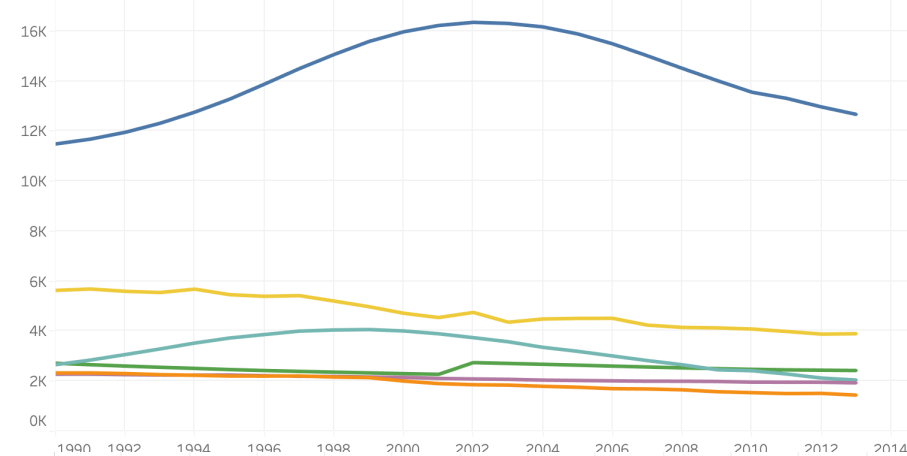
Region



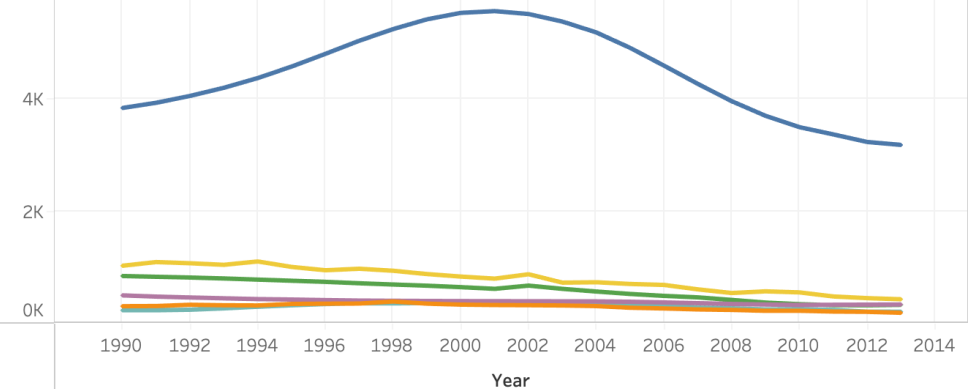
TB Prevalence per 100 000 Population



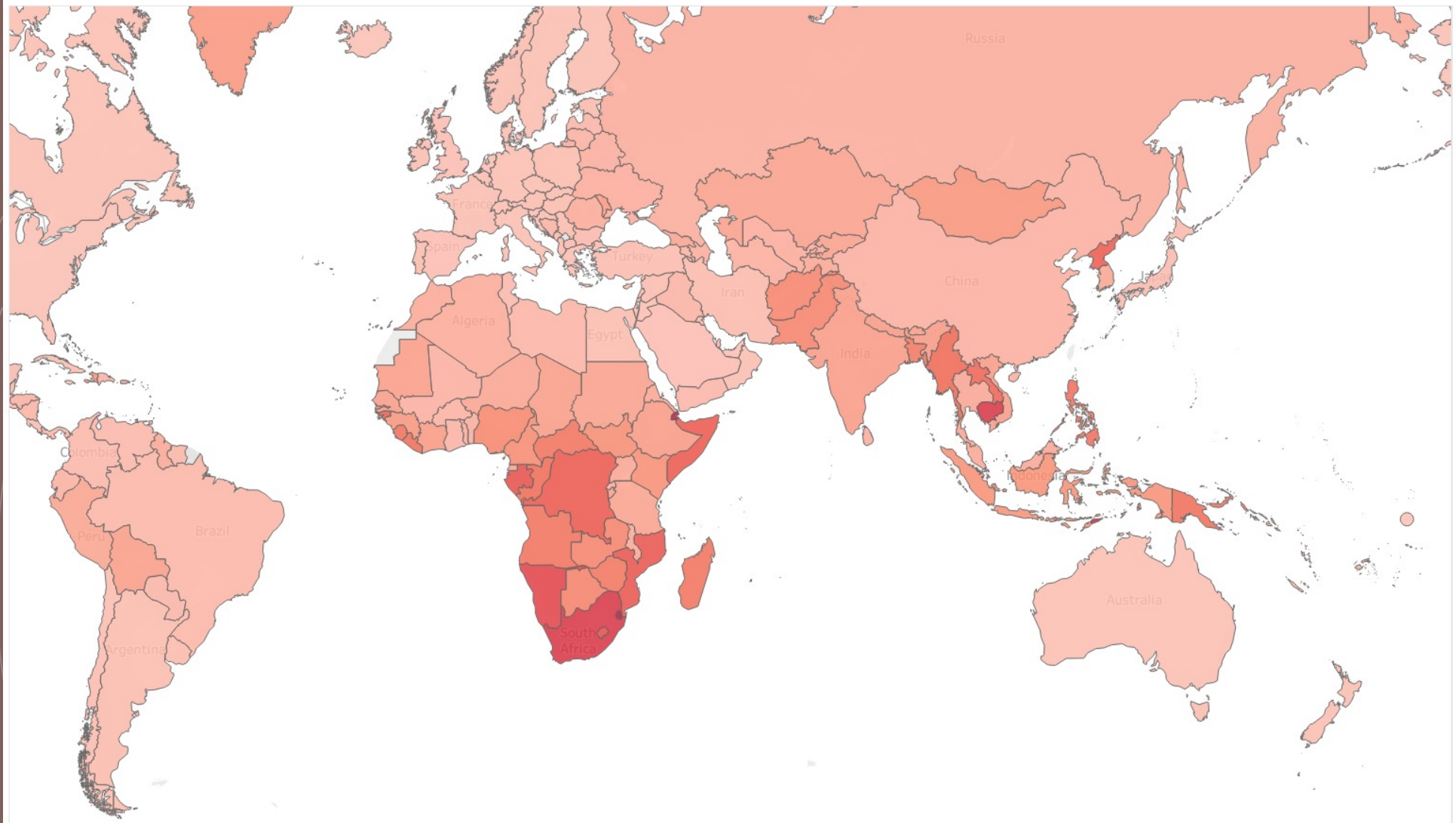
TB Incidence per 100 000 Population



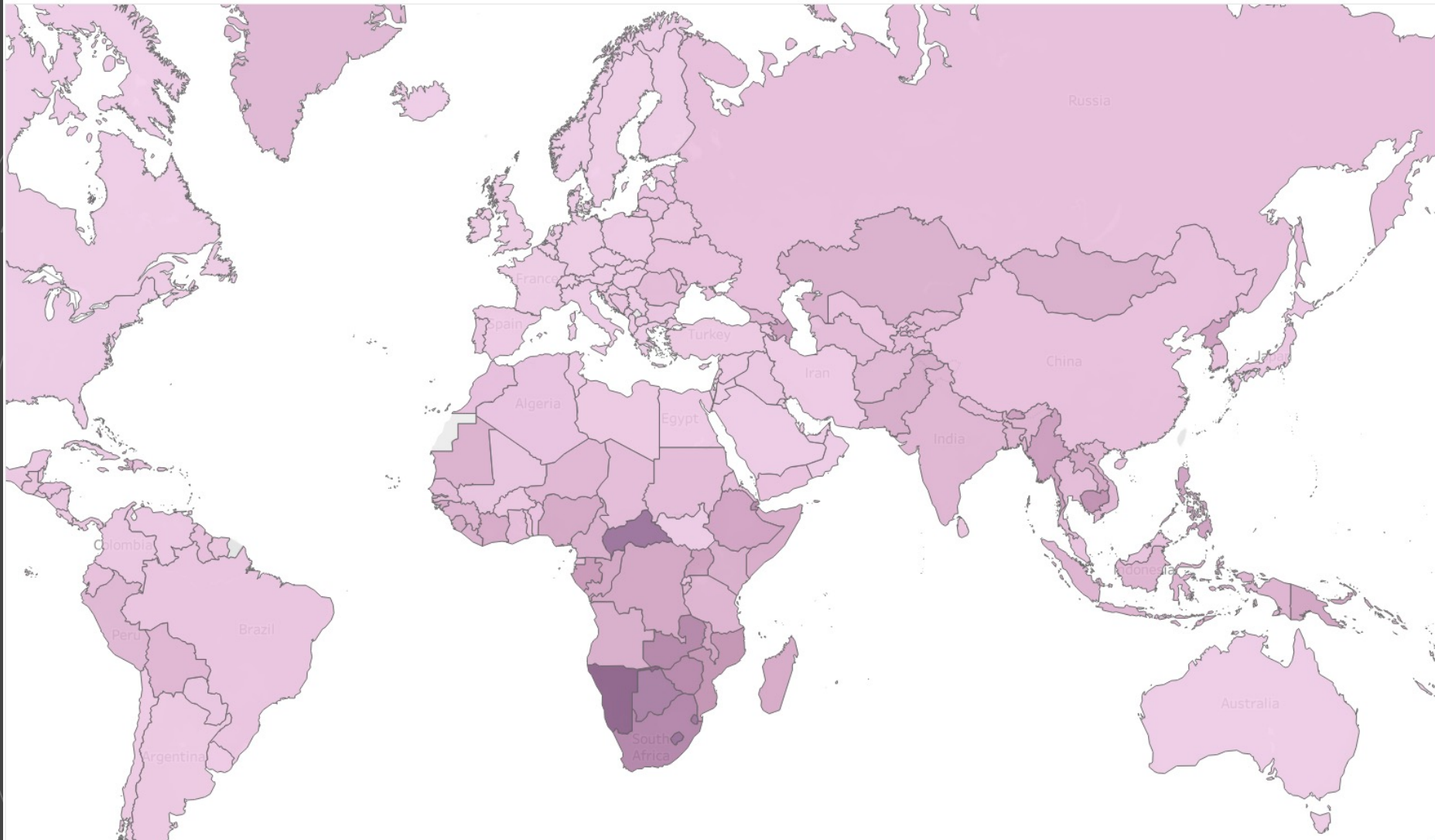
Mortality (all forms)



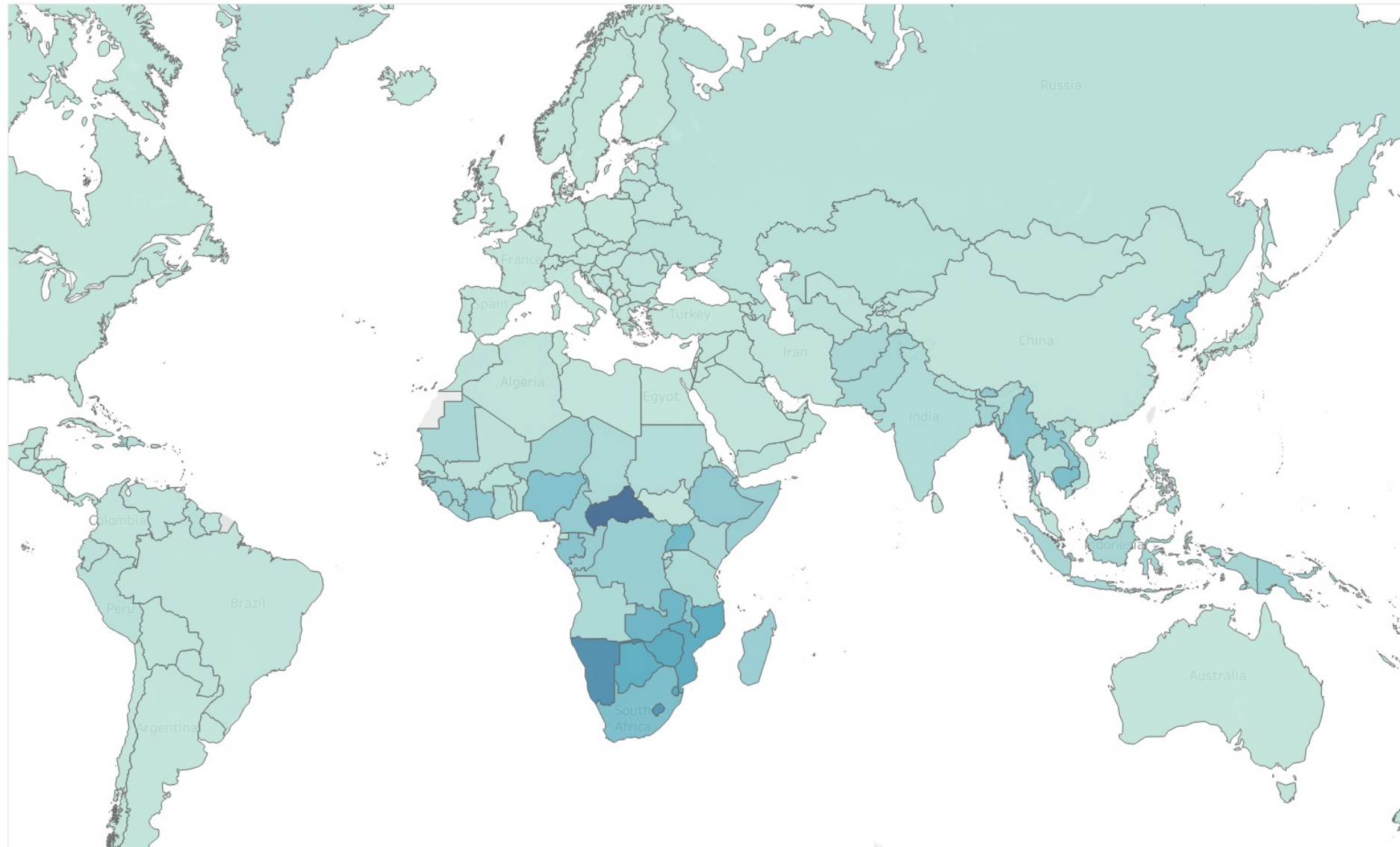
TB Prevalence



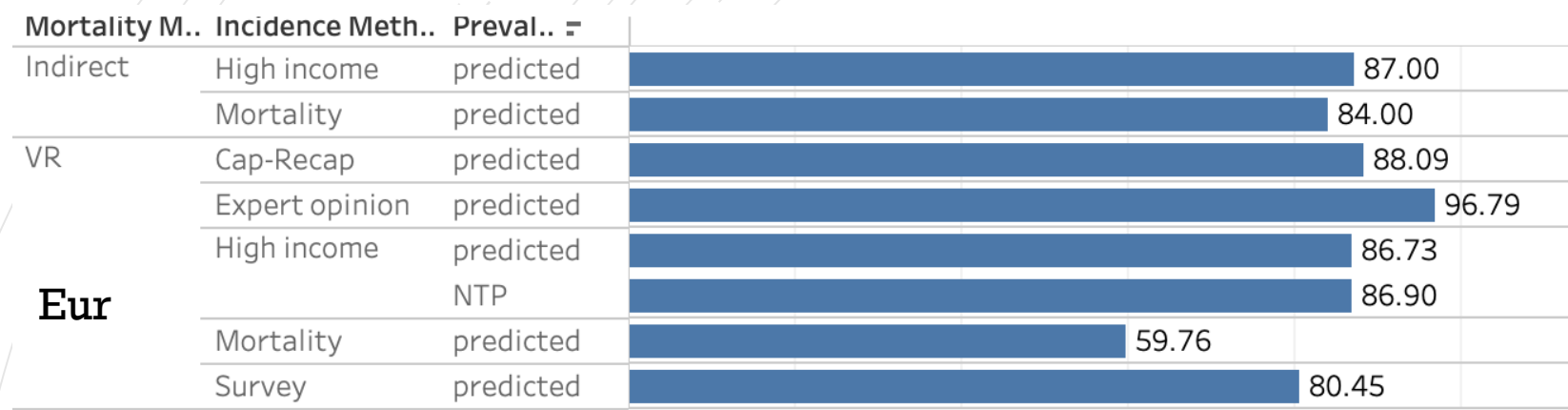
TB Incidence



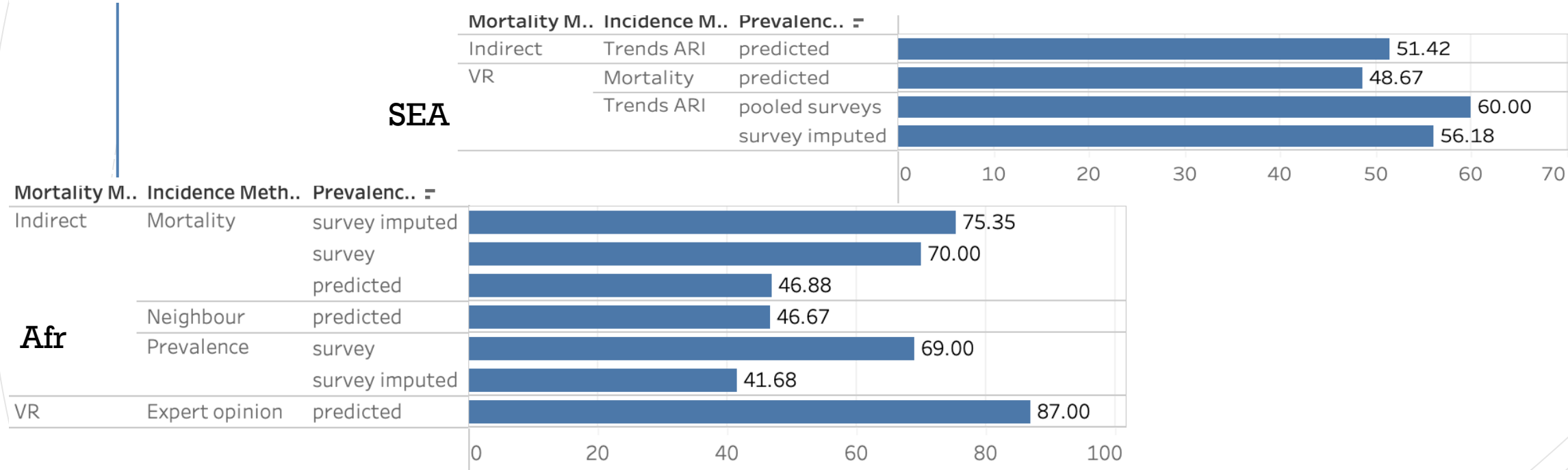
TB Mortality



Most effective means of data collection and CDR%

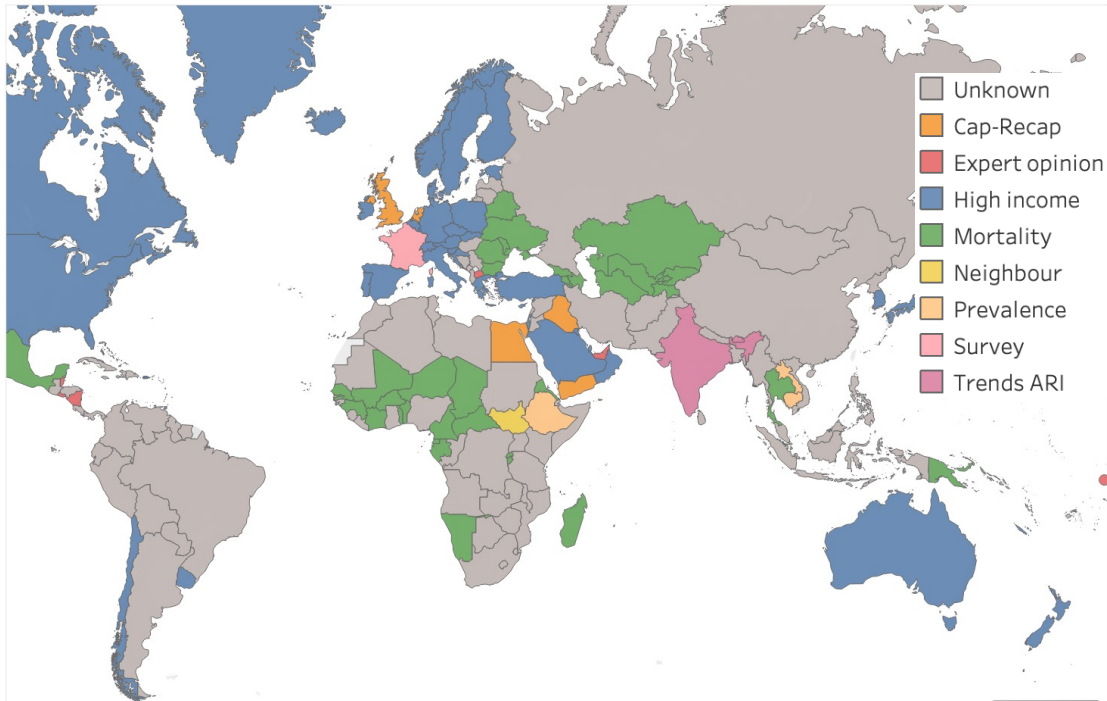


Data Collection Methods and Case Detection Rate %



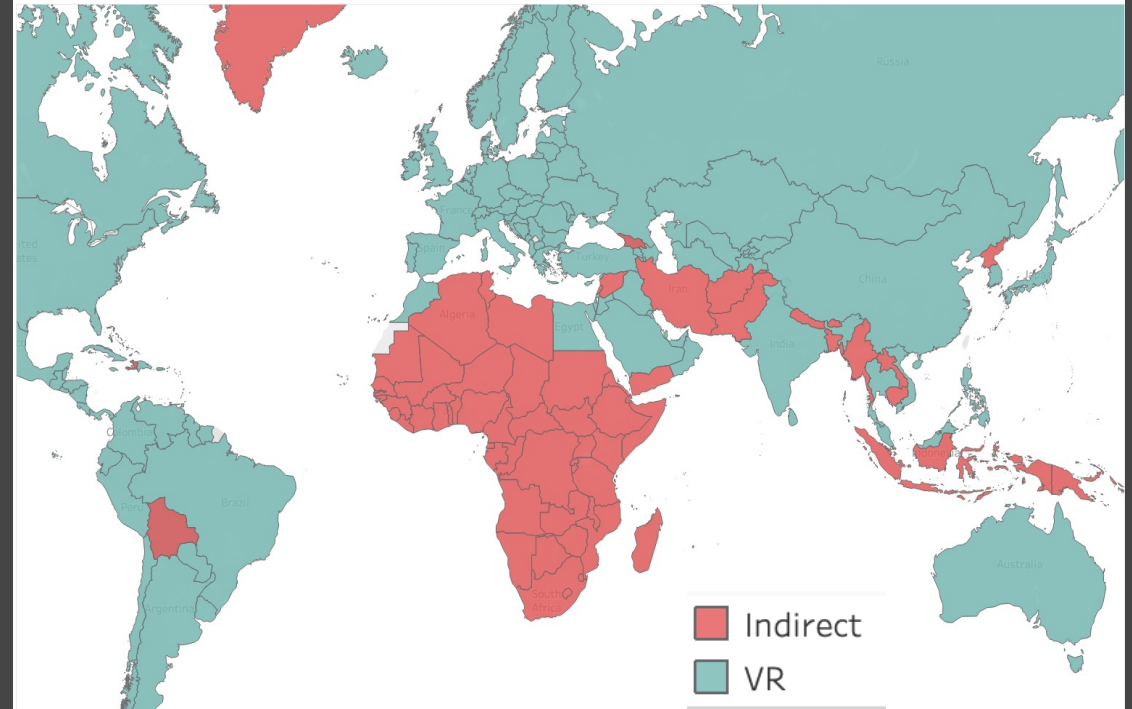
Which method of data collection have the best relationship to CDR? Which is shared by the most burdened areas?

Map - Global Spread of Methods to Derive Incidence Estimates



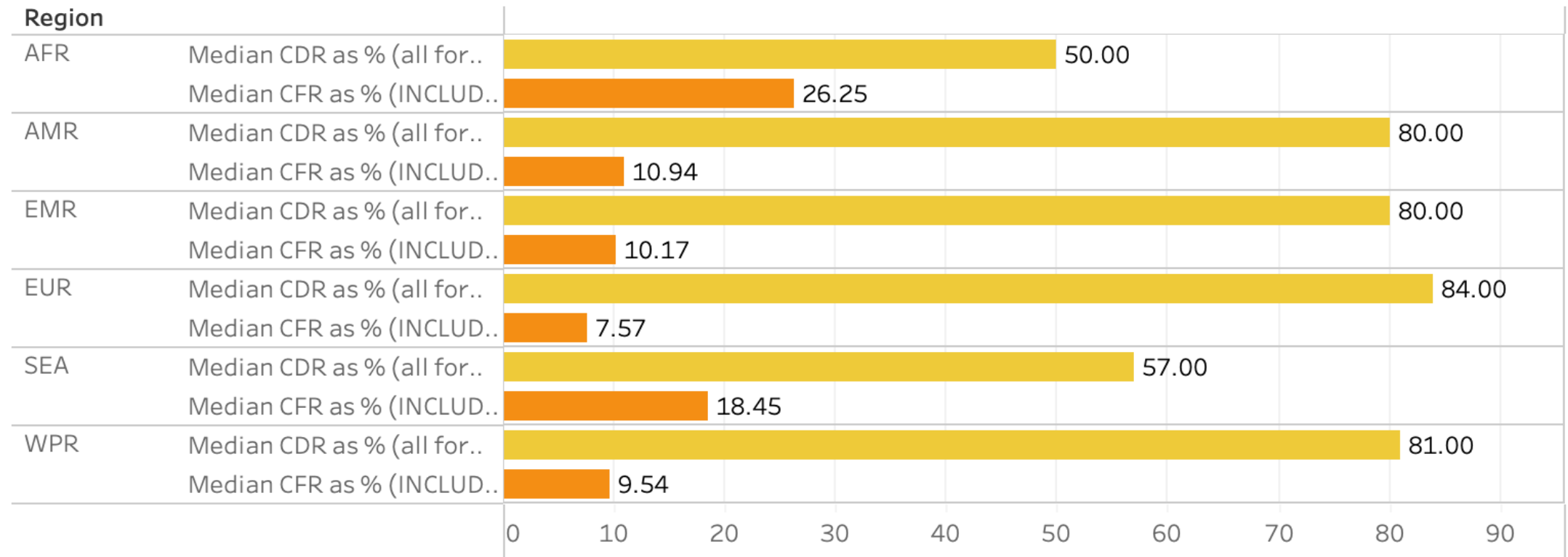
For incidence it is 'high income'

MAP - Global Spread of Methods to Derive Mortality



For mortality it is 'VR'

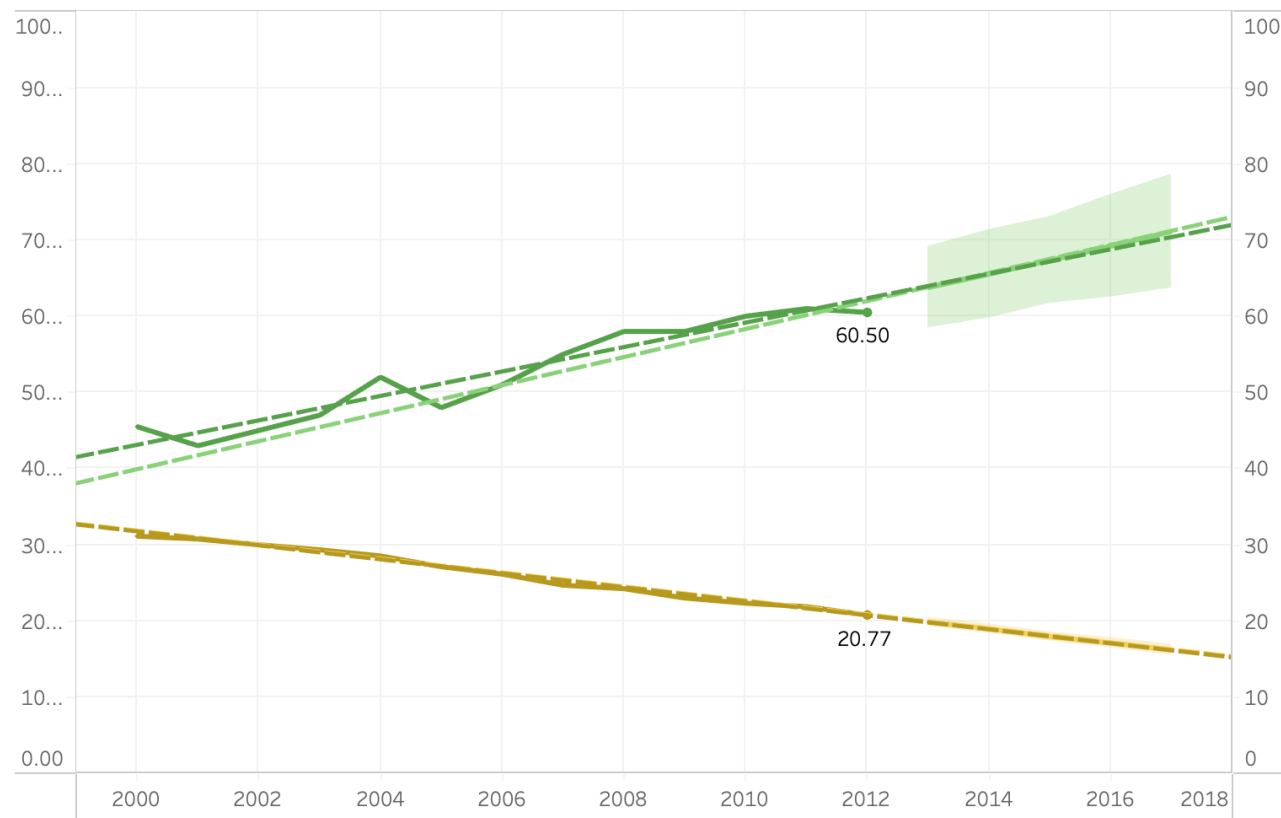
Median Case Detection Rate to Case Fatality Risk



CDR = Case Detection Rate
CFR = Case Fatality Risk

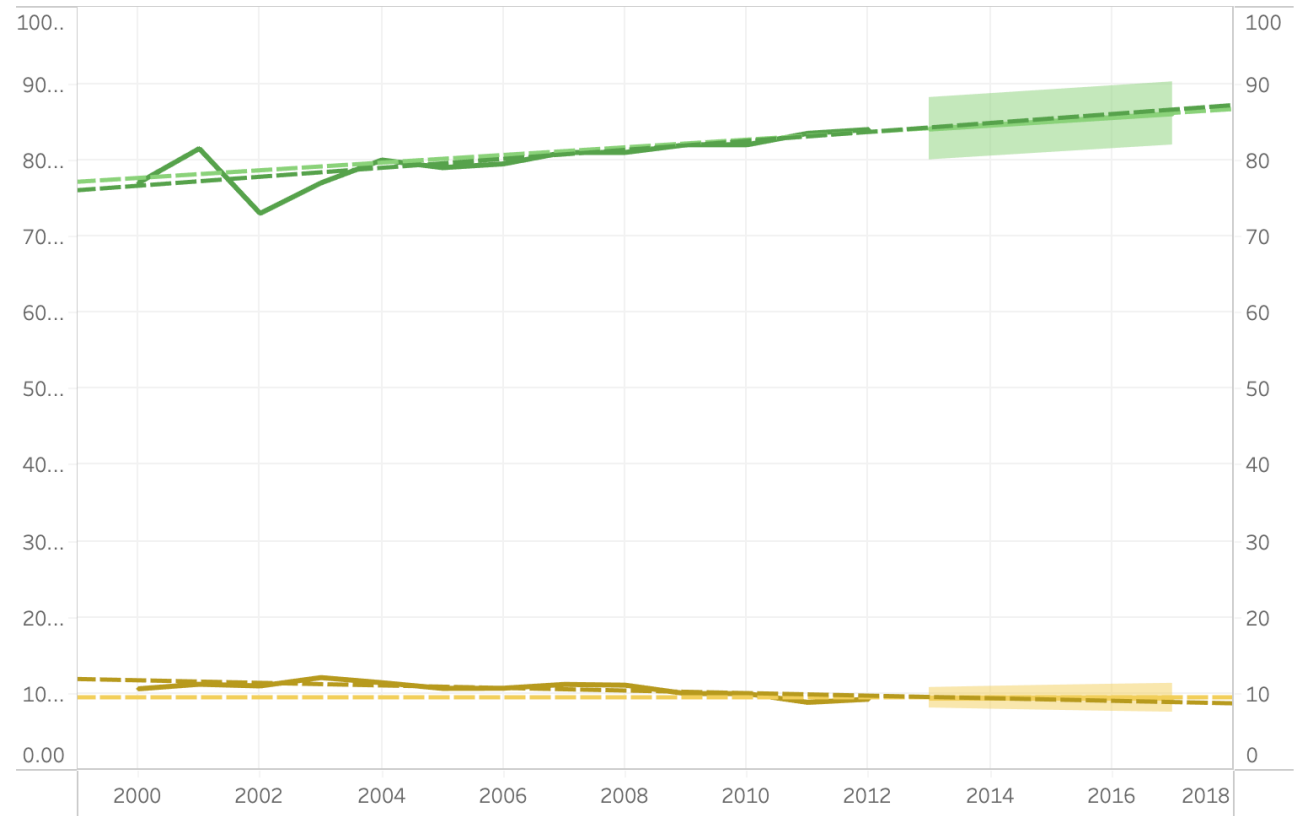
Africa from
year 2000

CDR% and CFR% with Program Targets



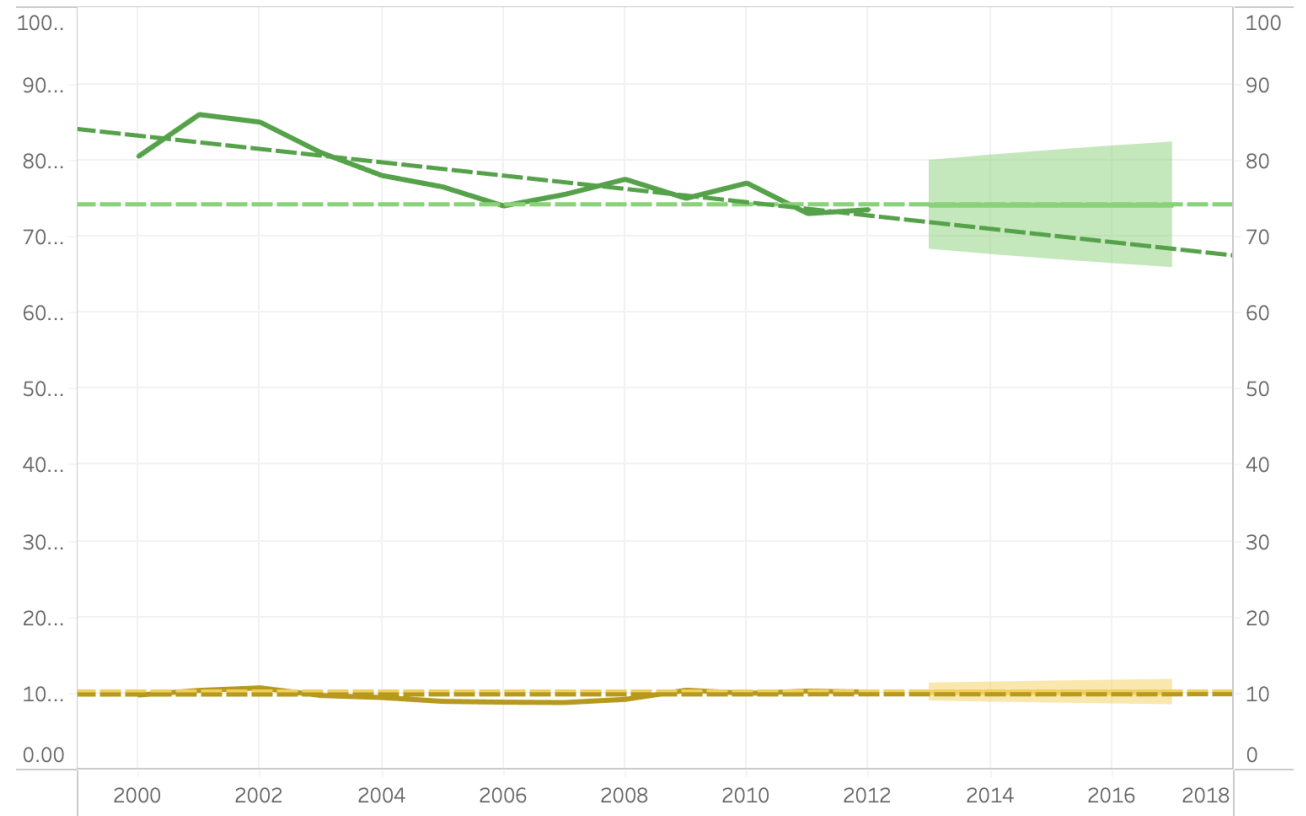
Americas from
year 2000

CDR% and CFR% with Program Targets



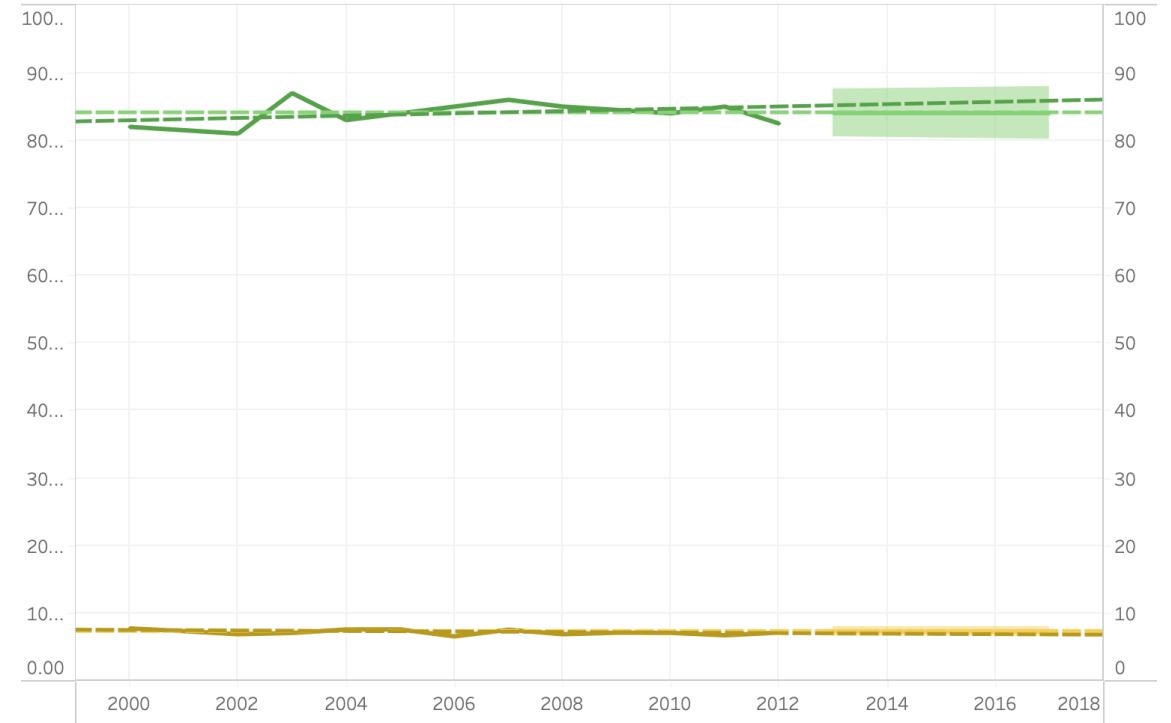
EMR from
year 2000

CDR% and CFR% with Program Targets



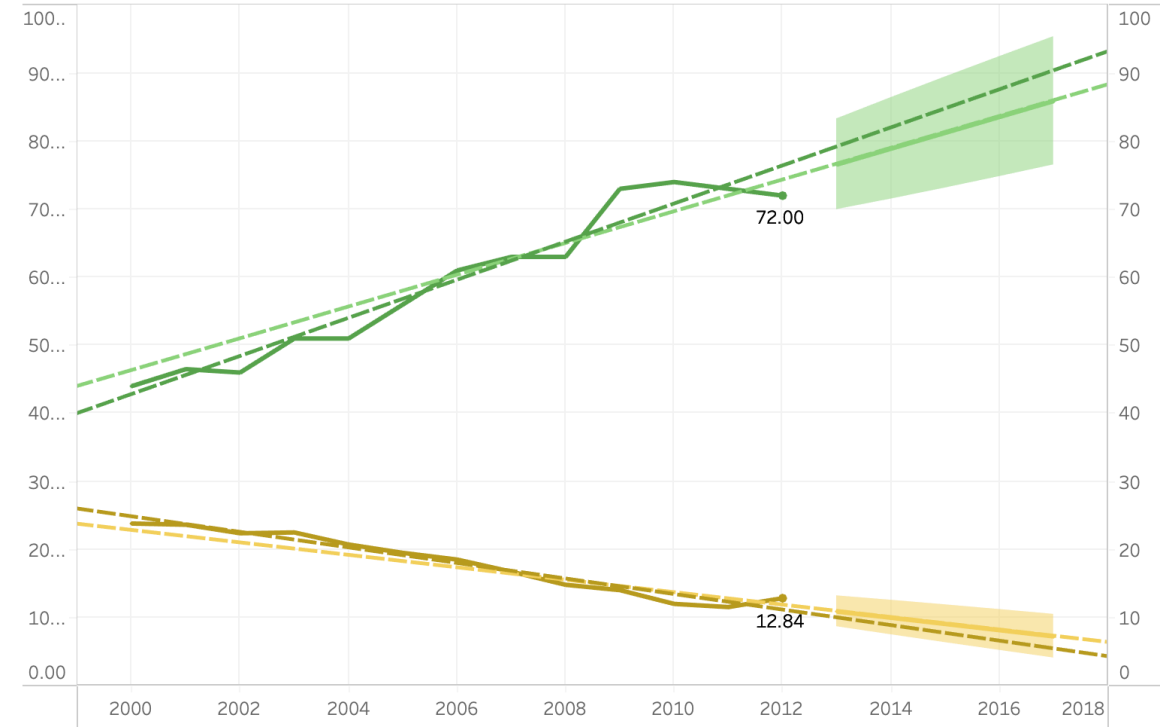
Europe from
year 2000

CDR% and CFR% with Program Targets



SEA from year
2000

CDR% and CFR% with Program Targets



WPR from
year 2000

CDR% and CFR% with Program Targets

