

JULIA POLIAK PETER ECKERT CHRISTOPH SENG



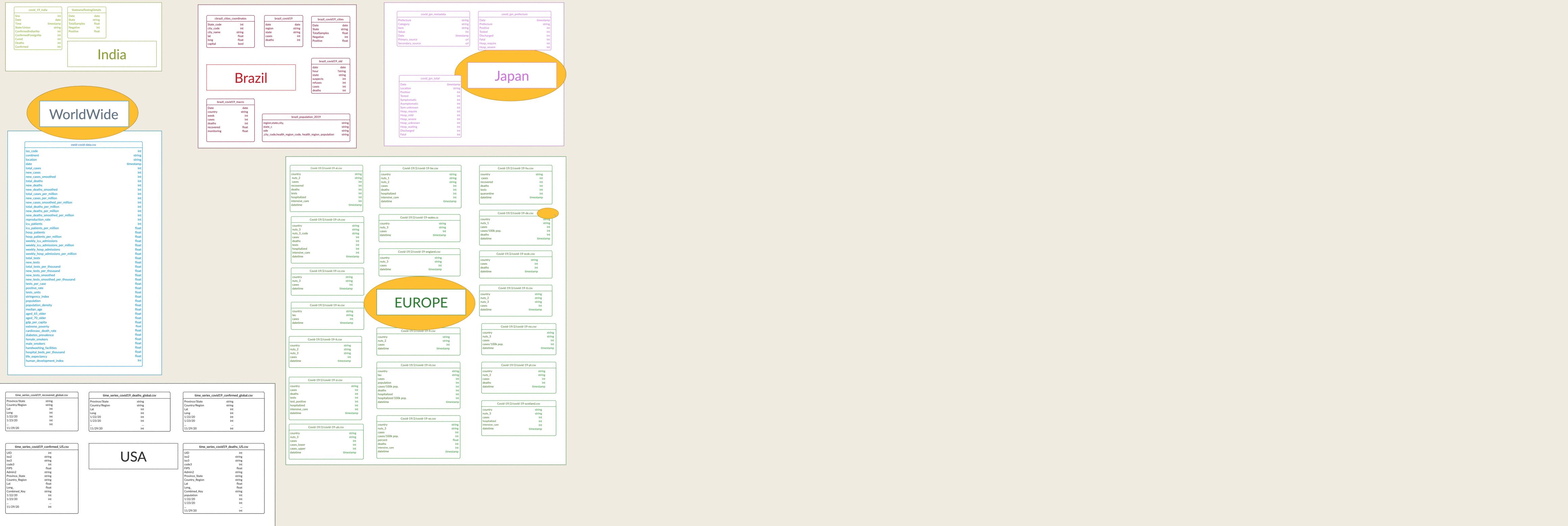
A Web Data Dashboard for Covid-19 Analysis

Certification Project Data Scientist

Story

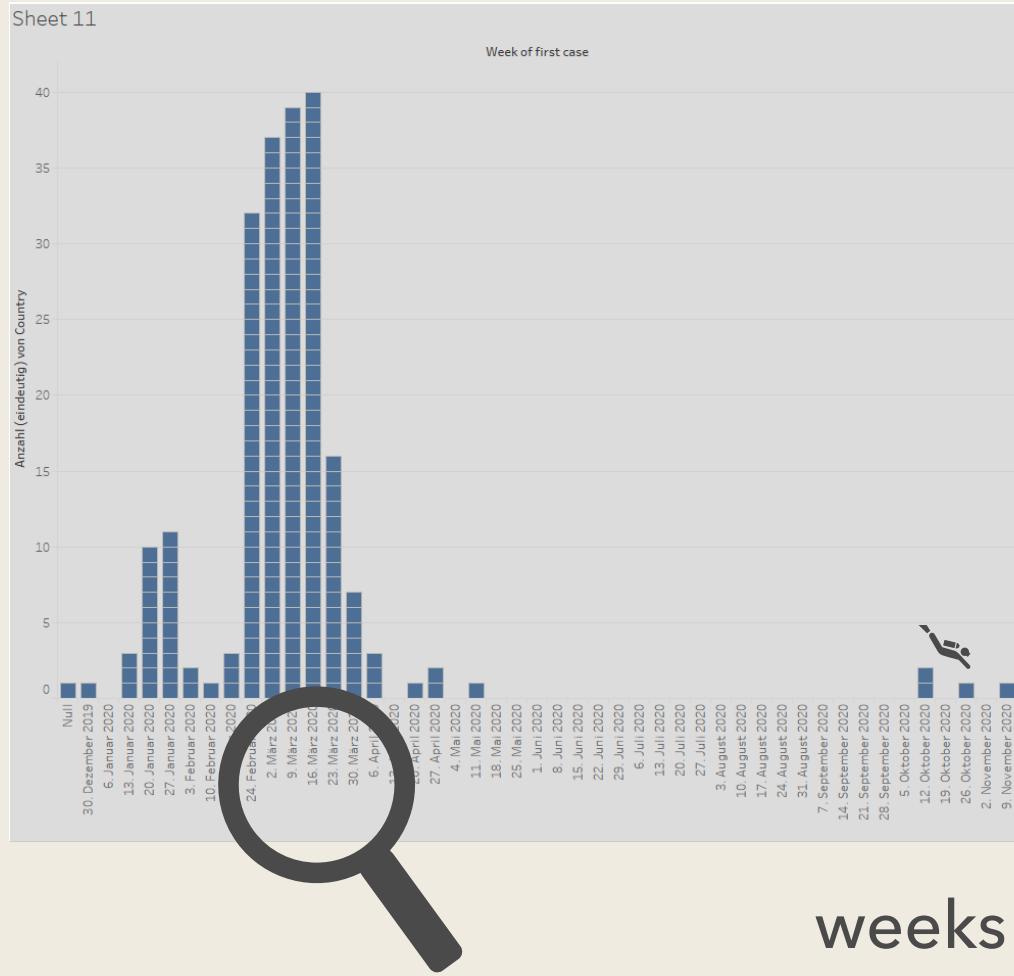
1. Data understanding and preprocessing - Julia Poliak
2. Data Analysis and first results - Julia Poliak
3. Prediction of future development - Peter Eckert
4. Web based Dashboard - Christoph Seng

ER Model of Datasets

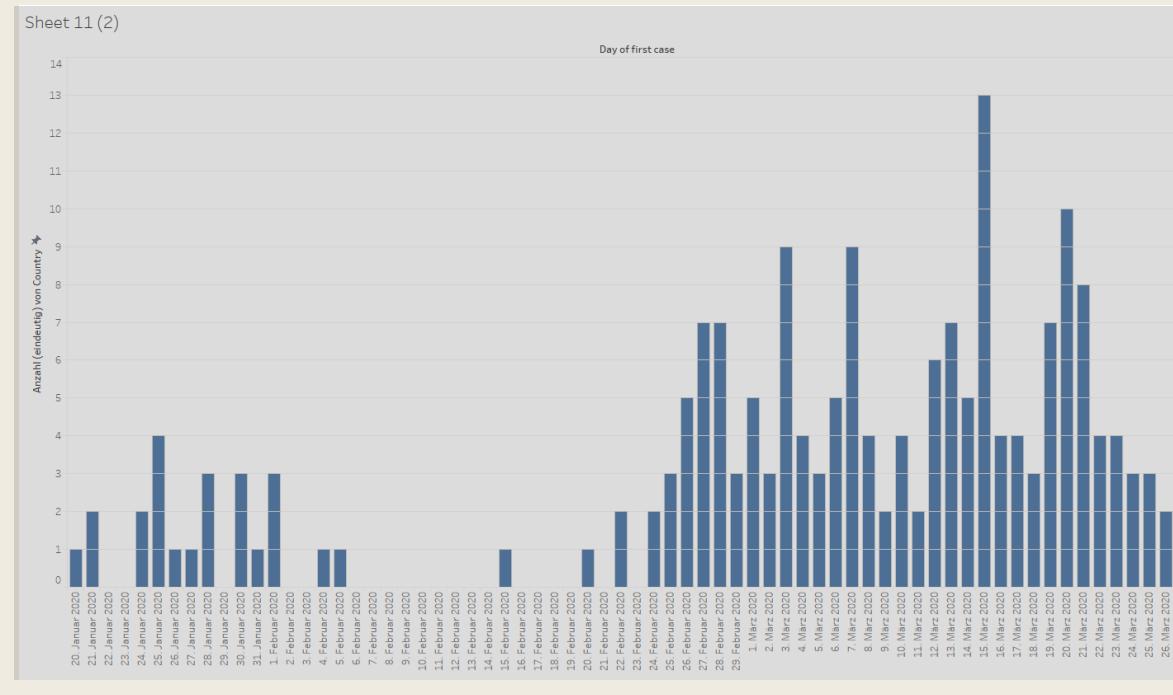


Data Analysis

- start of contamination of each country
- by week/by day

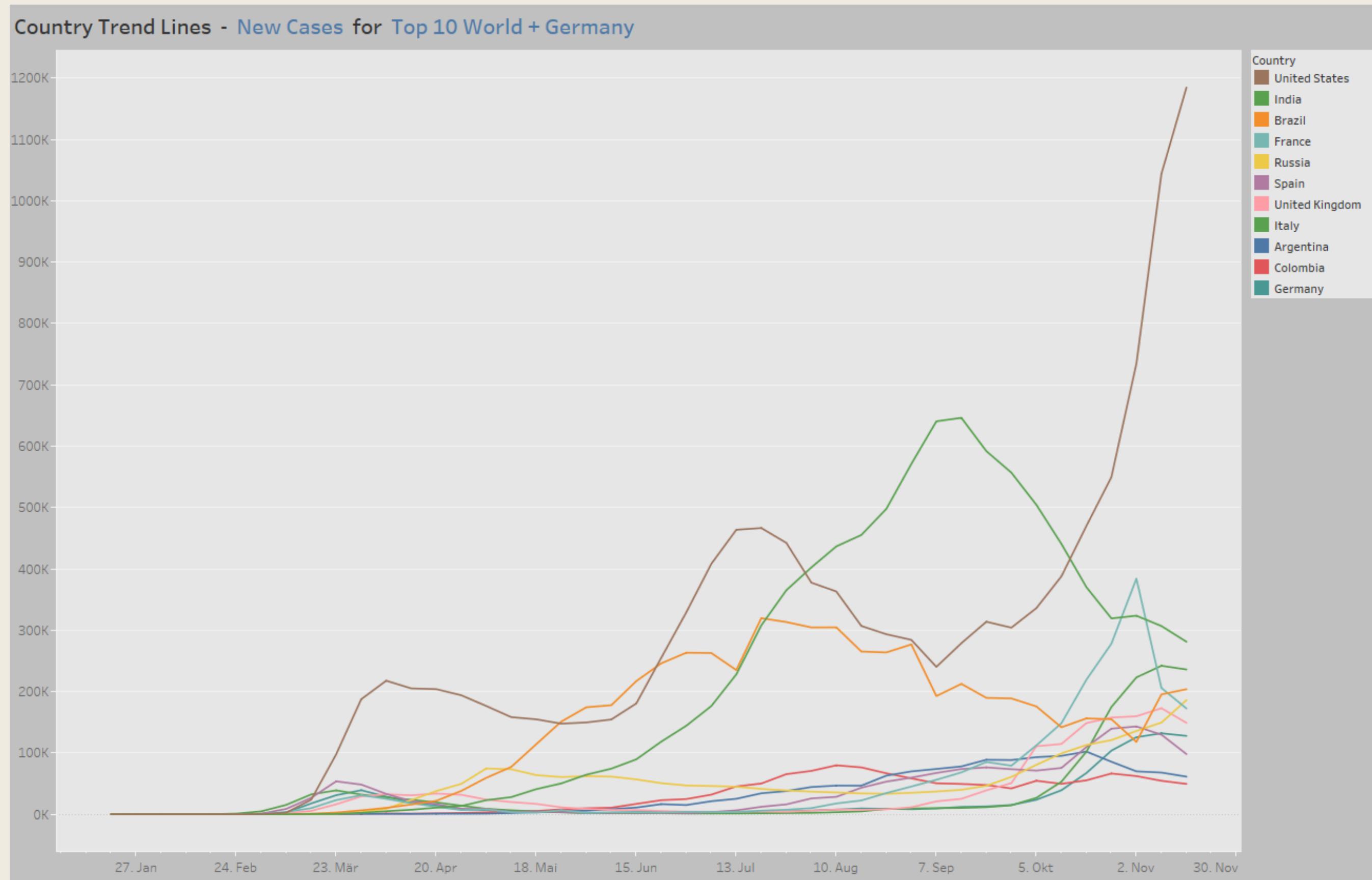


weeks

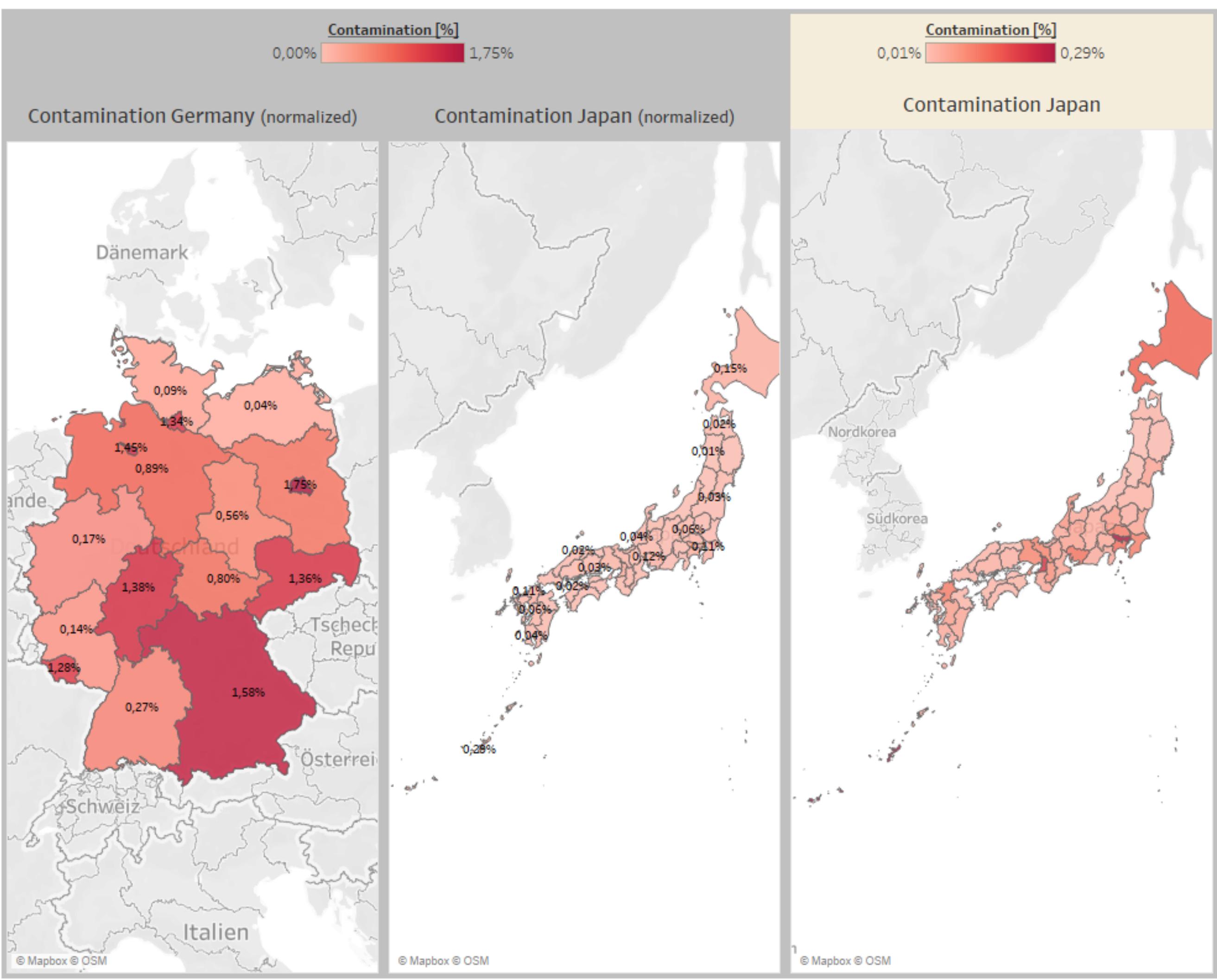


days

Data Analysis



Comparison of countries by the highest amount of incidents





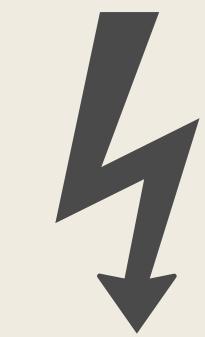
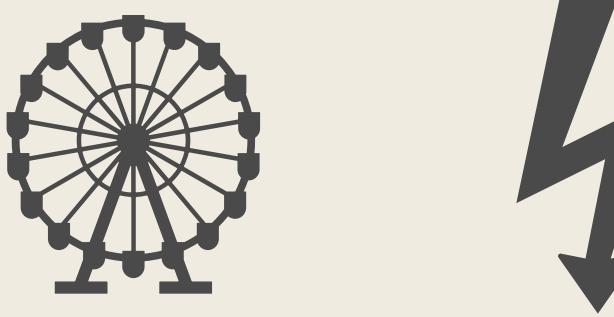
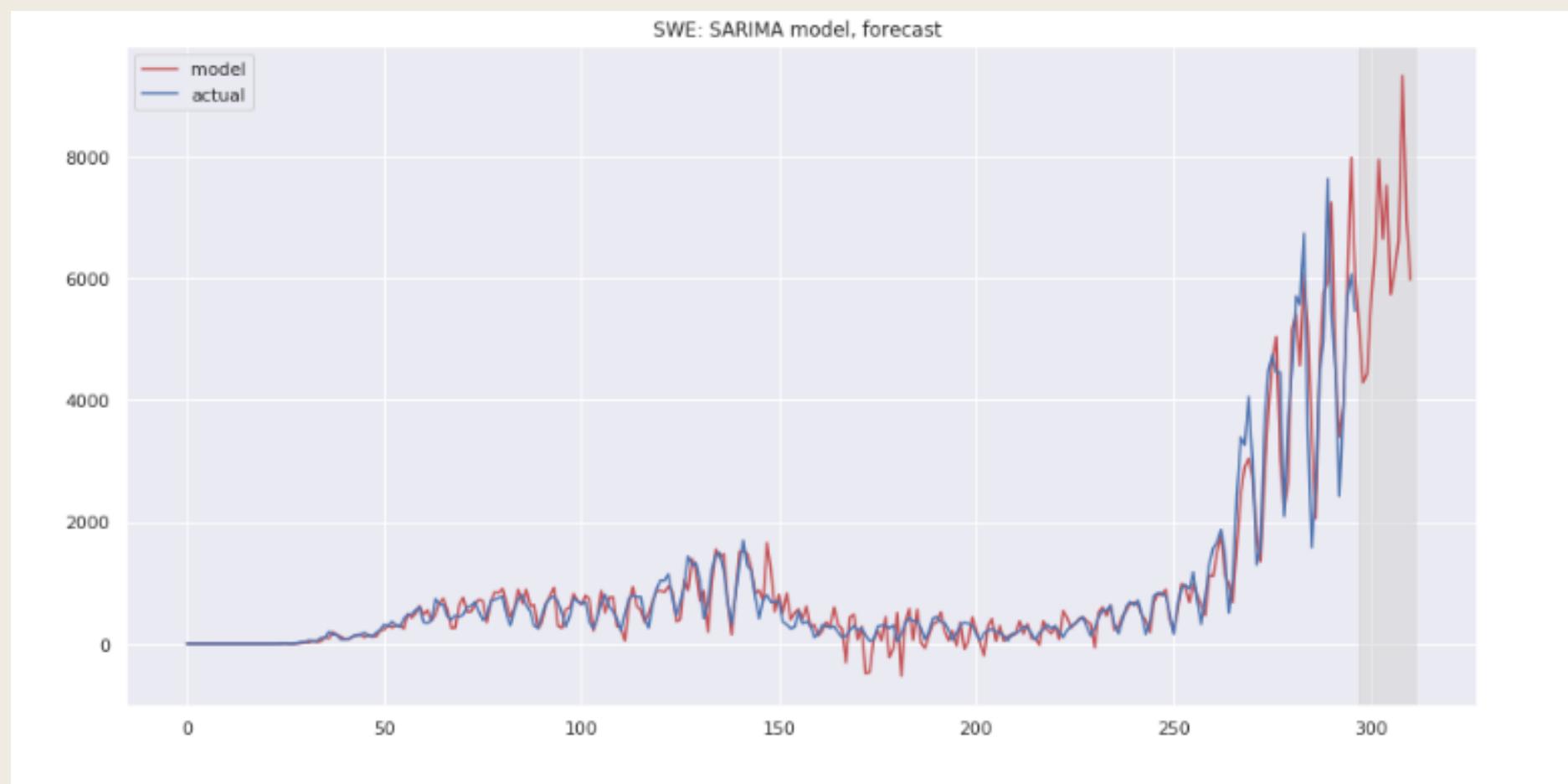
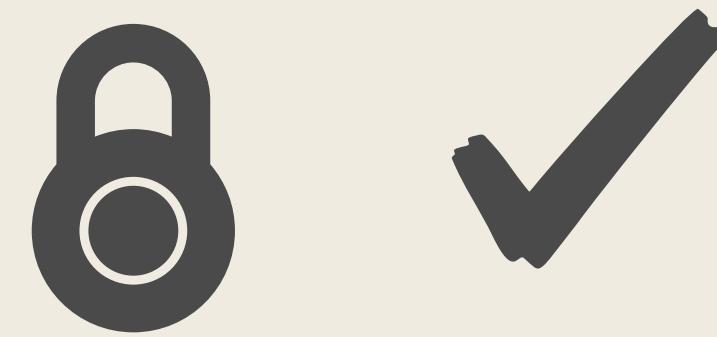
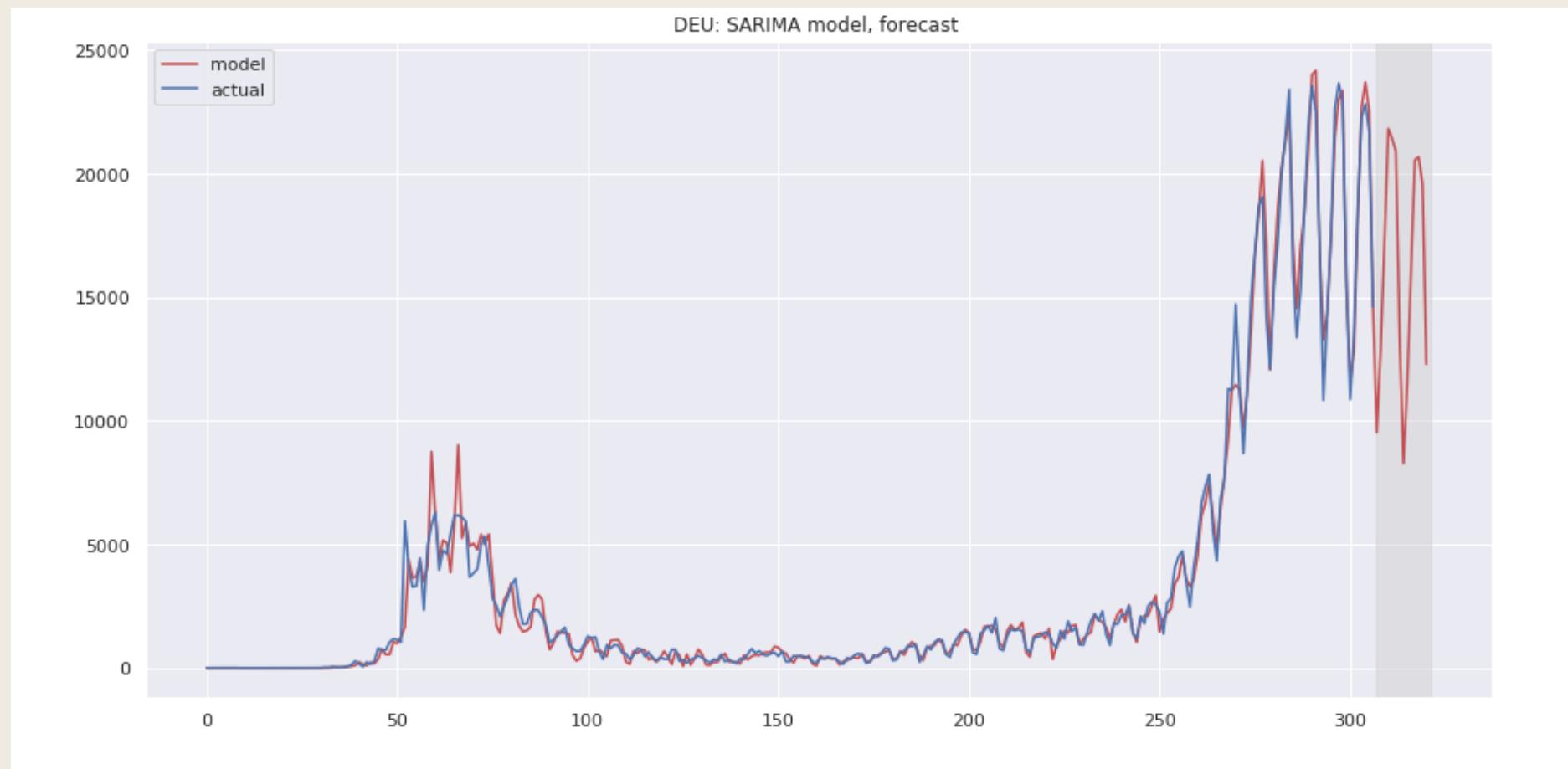
Prediction

$$SARIMA \underbrace{(p,d,q)}_{non-seasonal} \underbrace{ (P,D,Q)_m }_{seasonal}$$

SARIMA notation

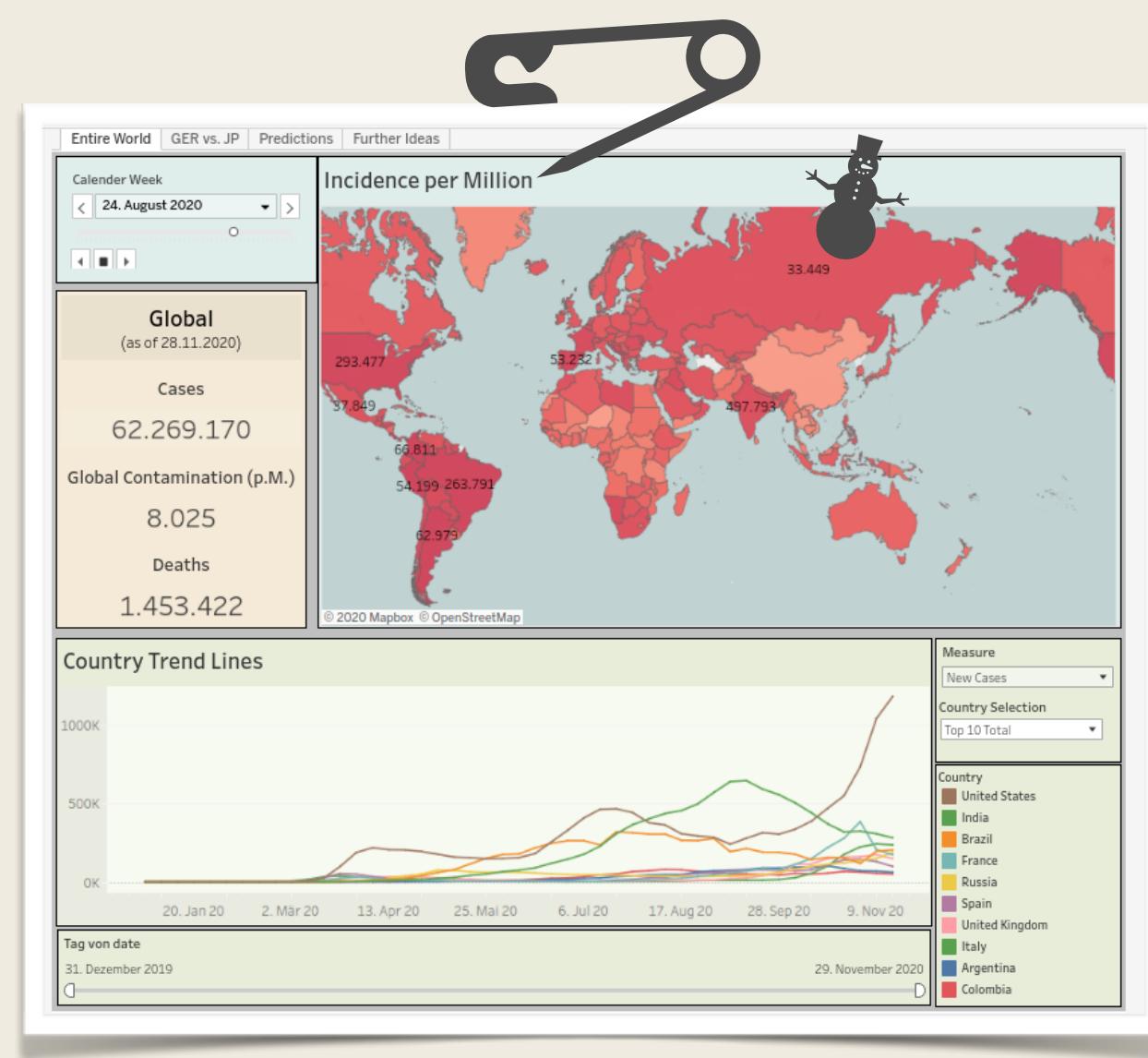
country	p	q	d	P	Q	D	s	actual: new cases 29.11.2020	predicted: new cases 7.12.2020
Germany	6	2	1	1	1	2	7	14611	8275
USA	0	2	1	1	1	4	24	154893	228418
Sweden	5	3	1	1	0	2	25	5464	6114

Prediction





Web Based Dashboard



https://dub01.online.tableau.com/#/site/aidacovid/workbooks/524379?origin=card_share_link





Thanks to Max

and the AIDA Team
