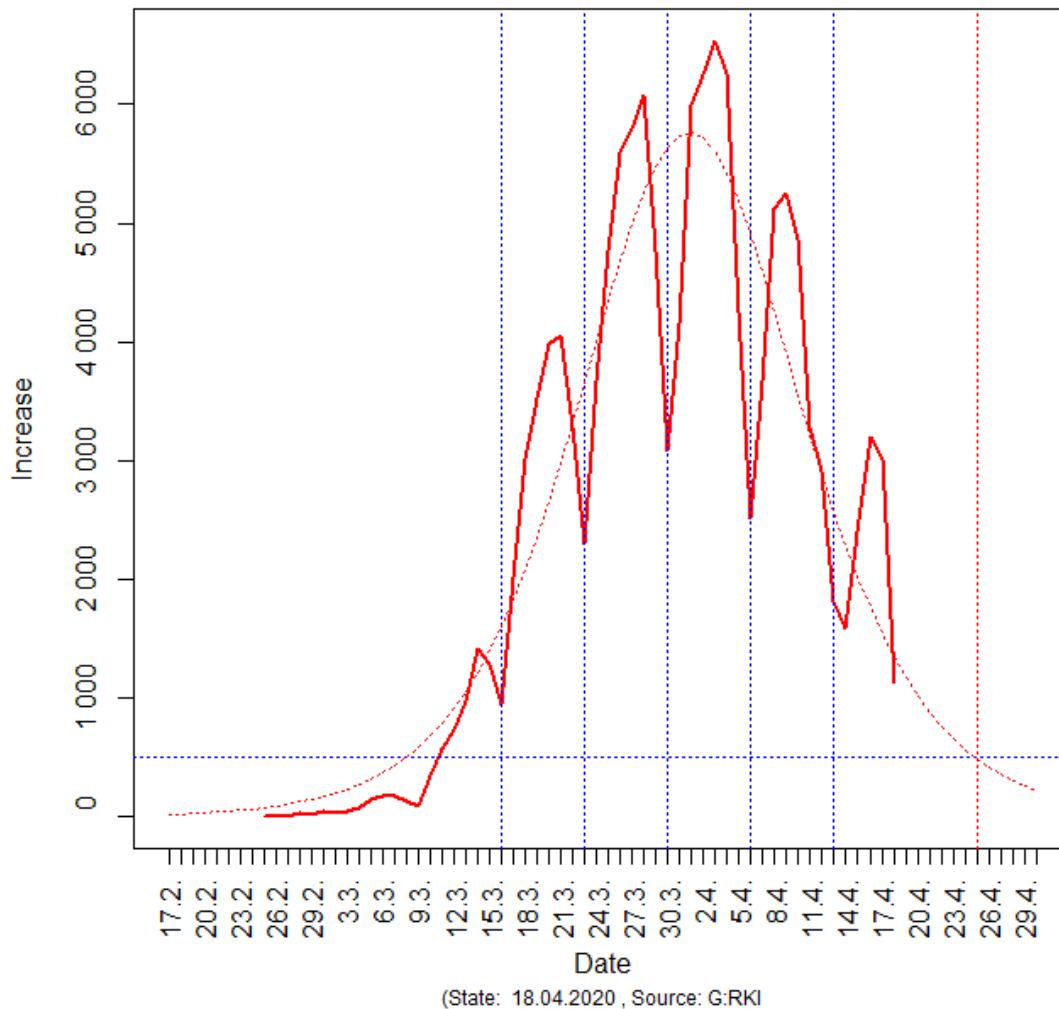


18.04.2020: COVID-19 Pandemic: Germany: Change of representation: Increases instead of total: Stagnation predicted for 25.4.; estimated maximum now around 145000

Increase of no. of infected people for Germany



The figure shows the real (bold line) and predicted (dotted line) increases of COVID-19 infections for **Germany**, real increases as reported by the Robert-Koch-Institut (RKI, Berlin) at the 18.4., predictions as generated by an optimally fitted **weighted Logistic Model**, putting more weight on the forth, third and second last observation. Vertical blue dotted lines indicate Mondays, the red vertical dotted line the predicted start of **stagnation** of new infections (< 500). The horizontal dotted line indicates an increase of 500.

We switched to the representation of increases to show that the numbers reported by the RKI follow waves related to weekdays. Obviously, numbers are relatively the lowest at Mondays (with the exception of the week after Easter where Monday is a public holiday). The public health authorities obviously do not report cases that much on weekends. Moreover, increases tend to get smaller, but the model mostly underestimates increases, possibly because of the waves. Therefore, our results might be somewhat optimistic.

Stagnation (< 500 new infections) we now predict for the 25.4. for Germany and for the 30.4. for Italy. The not shown estimated upper limit of the no. of infected people in the first wave of the pandemic is now around 145000 for Germany. For Italy, the estimated maximum is around 185000.