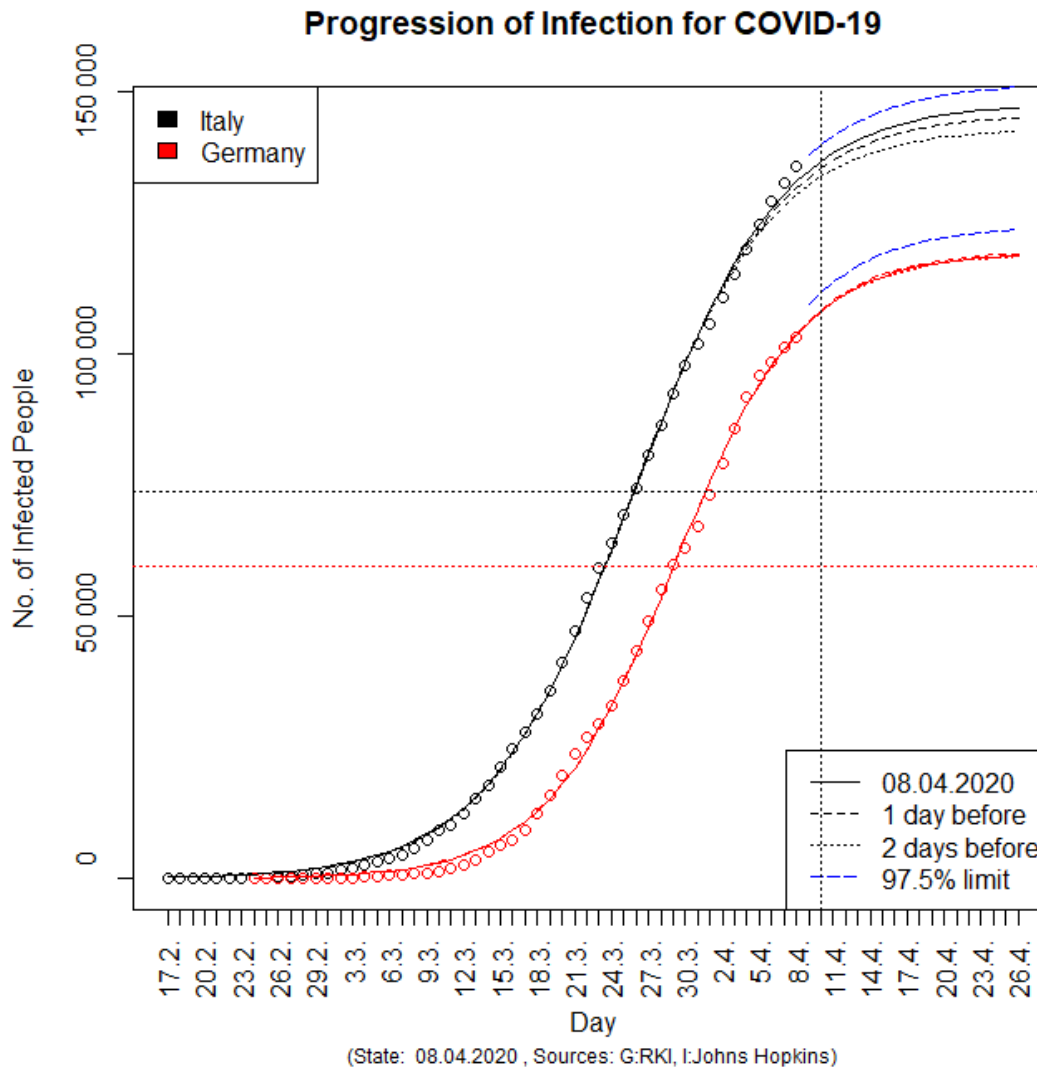


08.04.2020: COVID-19 Pandemic: Germany: Saturation phase may have started; estimated maximum around 120 000; stabilization already this week?



The figure shows the predicted progression of COVID-19 infections for Italy and Germany with data starting at 17.02. (Italy) and 24.02. (Germany), respectively. Circles represent observations of the no. of infected people as reported by the Robert-Koch-Institut (RKI, Berlin) for Germany and the Johns Hopkins University (USA) for Italy. Lines represent predictions by optimally fitted **Logistic Models** for the actual data endpoint and the two days before. This way, the (in)stability of the predictions in dependence of the endpoint of observed data is demonstrated. We also added the upper limit of the 95% prediction interval (97.5% limit) as another indicator of uncertainty. Vertical dotted lines indicate start of **stabilization of the population of infected people** for Italy (black) and Germany (red). **The population is called stable if the no. of new infections is not higher than the no. of deaths plus recoveries.** Horizontal dotted lines indicate turning points.

Today, a similarly low no. of newly reported infections as yesterday is reported for Germany. Saturation phase may have started! Based on the corrected RKI data of 8.4., the new estimated upper limit of the no. of infected people in the first wave of the pandemic is around 120 000 for Germany. For Italy, the estimated maximum is greater than 145 000. Uncertainty of these numbers is relatively low. Both country models predict **stabilization** of the populations of infections until Easter (10.4.). **Note that the logistic model does not fit the current Italian observations very well.**