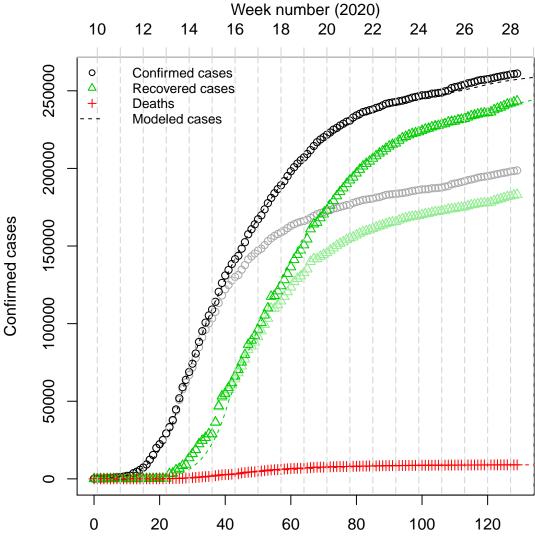
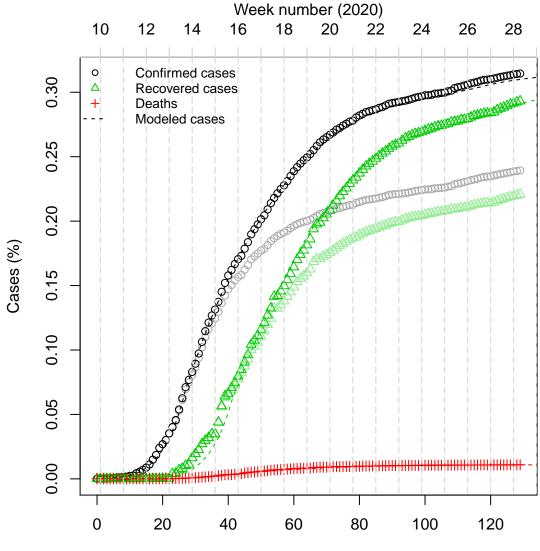
#### Situation vs Model COVID-19 in Germany



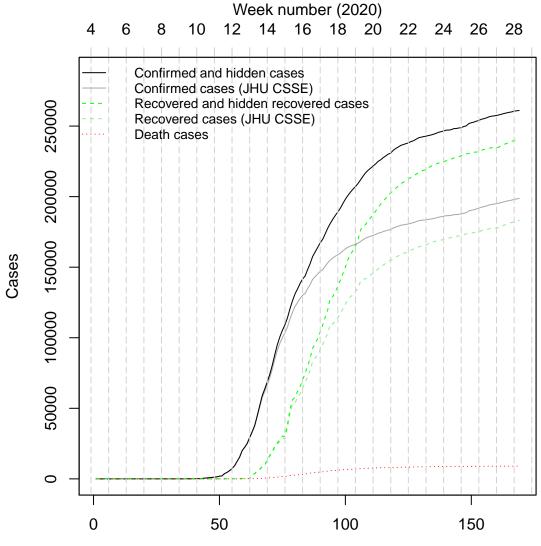
Days after 3/1/20

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#### Situation vs Model COVID-19 in Germany

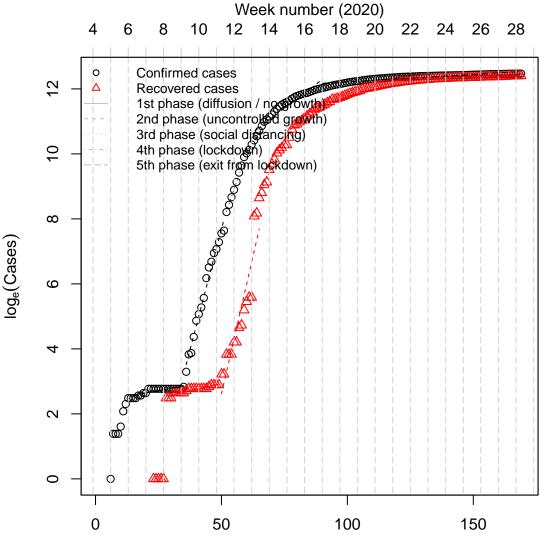


Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

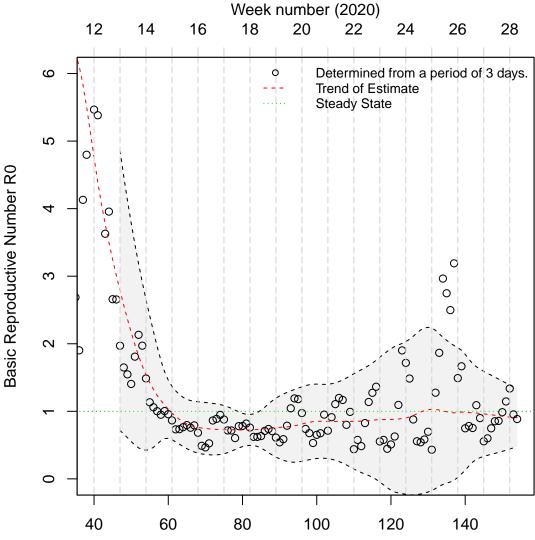


Days after 1/22/20

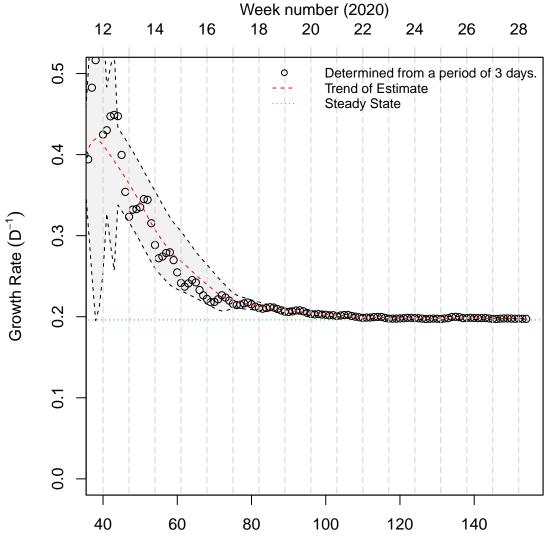
Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de



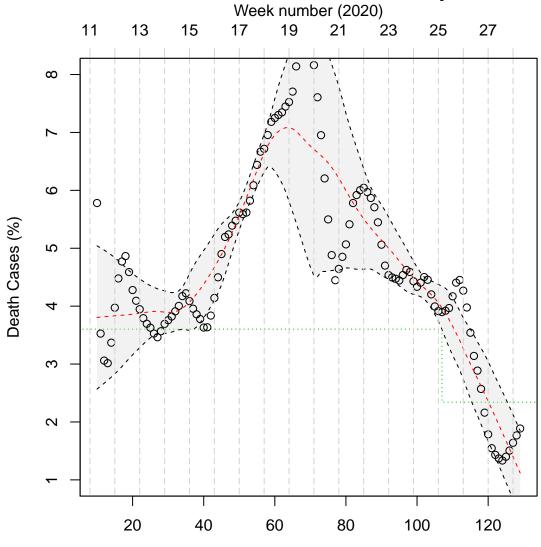
Days after 1/22/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de



Days after 2/5/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

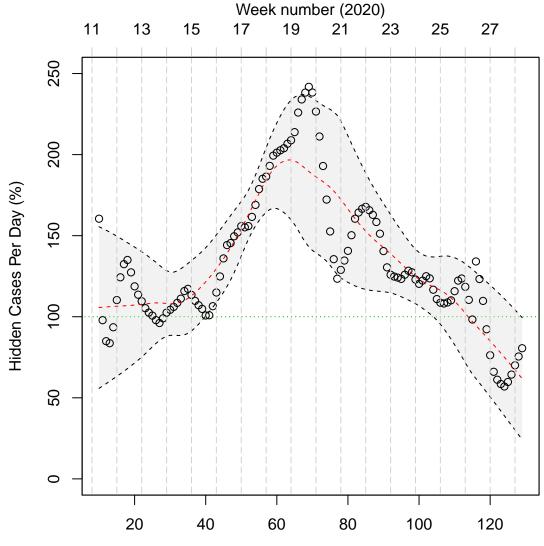


Days after 2/5/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

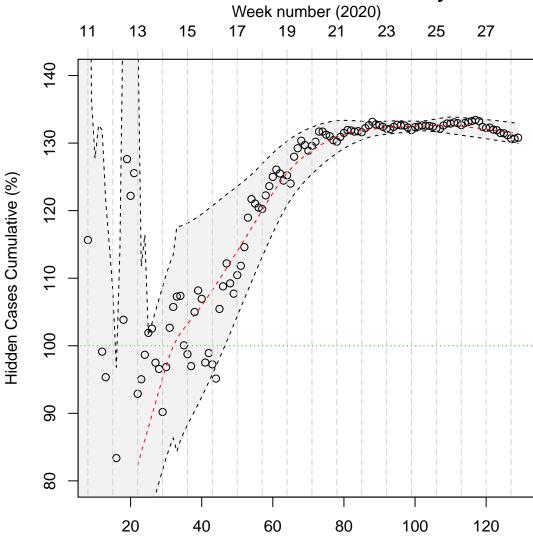


Days after 3/1/20

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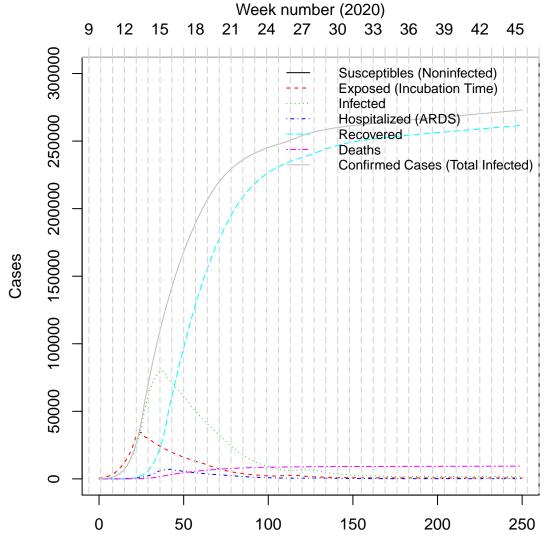


Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de



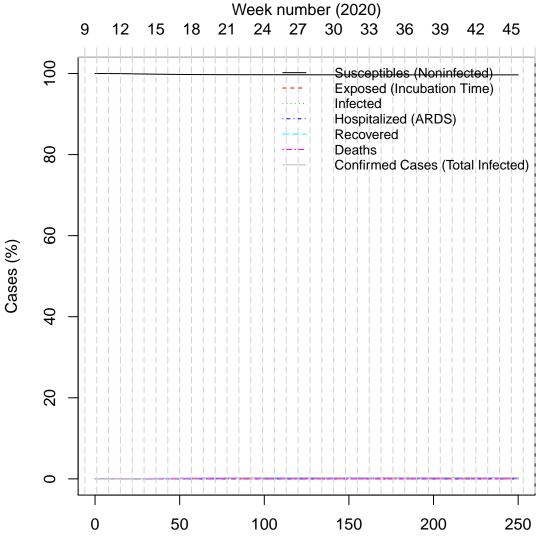
Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

### Forecast COVID-19 in Germany



Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

#### Forecast COVID-19 in Germany



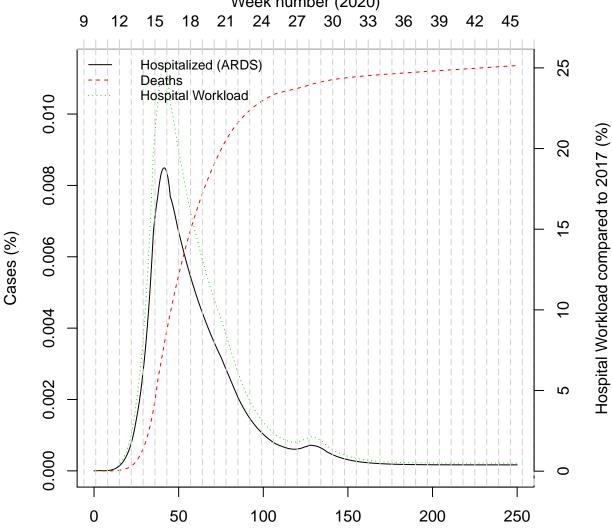
Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

## Forecast COVID-19 in Germany Week number (2020) Hospitalized (ARDS) Deaths Hospital Workload Hospital Workload compared to 2017 (%)

Cases

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#### Forecast COVID-19 in Germany Week number (2020)



Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

## Scenario 1 no social distancing and no lockdown Week number (2020) 24 45 12 15 18 21 36 39 42 8e+07 Susceptibles (Noninfected) Exposed (Incubation Time) Infected Hospitalized (ARDS) Recovered Deaths Confirmed Cases (Total Infected) 6e+07 Cases 4e+07 2e+07 00+<del>0</del>0

Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

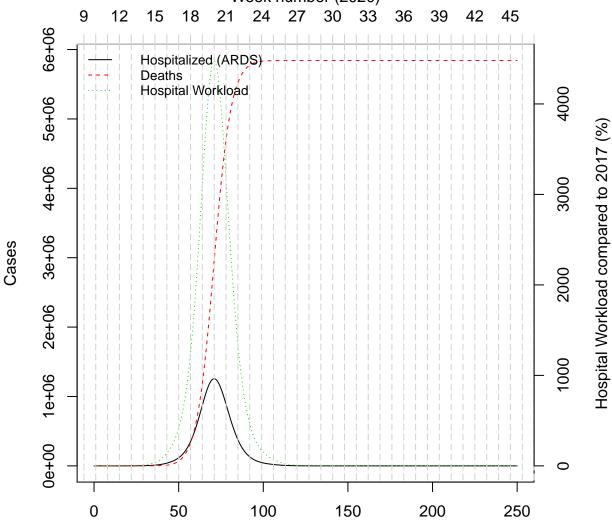
100

0

#### Scenario 1 no social distancing / no lockdown Week number (2020) Susceptibles (Noninfected) Exposed (Incubation Time) Infected Hospitalized (ARDS) Recovered Deaths Confirmed Cases (Total Infected) Cases (%)

Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

# Scenario 1 no social distancing and no lockdown Week number (2020)

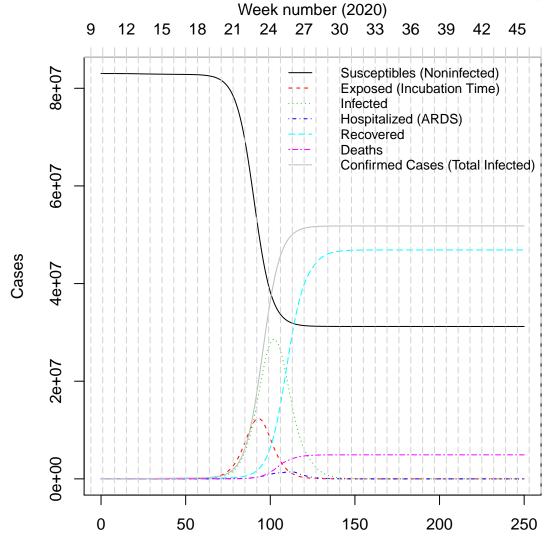


Days after 3/1/20

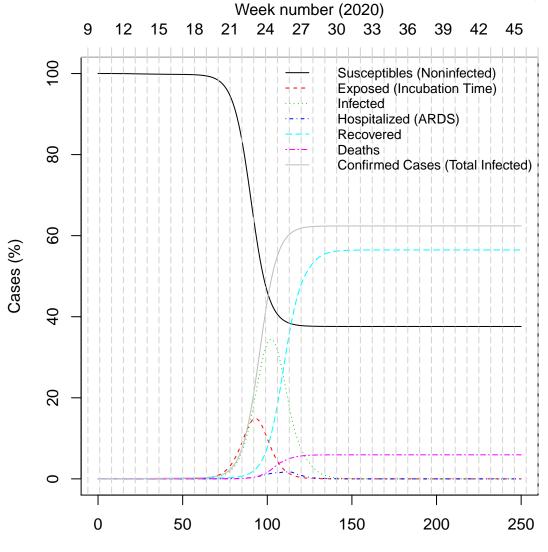
Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

# Scenario 1 no social distancing and no lockdown Week number (2020) Hospitalized (ARDS) Deaths Hospital Workload Hospital Workload compared to 2017 (%) Cases (%) $\alpha$

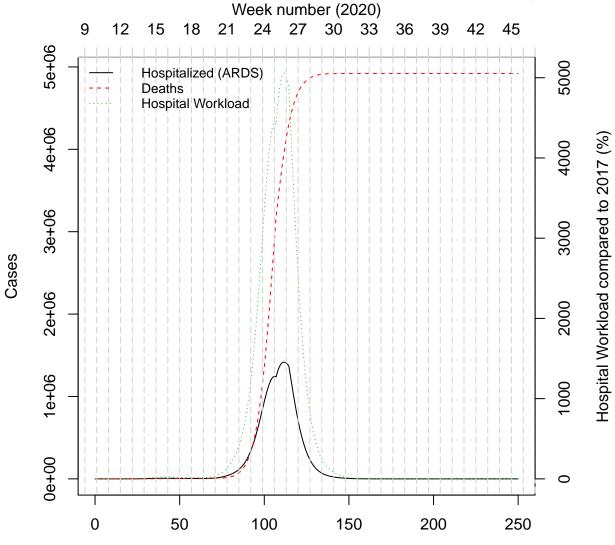
Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de



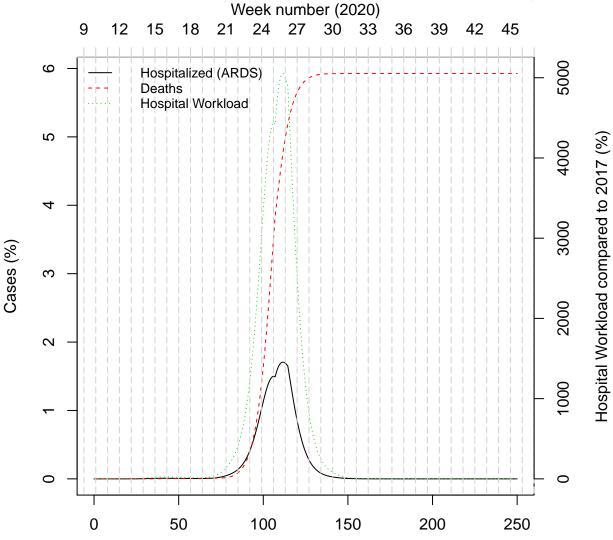
Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de



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Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

### Scenario 3 exit after day 50 with social distancing Week number (2020) 9 24 45 12 15 18 21 36 39 42 8e+07 Susceptibles (Noninfected) Exposed (Incubation Time) Infected Hospitalized (ARDS) Recovered Deaths Confirmed Cases (Total Infected) 6e+07 Cases 4e+07 2e+07 00+<del>0</del>0

Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

100

0

### Scenario 3 exit after day 50 with social distancing Week number (2020) Susceptibles (Noninfected) Exposed (Incubation Time) Infected Hospitalized (ARDS) Recovered Deaths Confirmed Cases (Total Infected) Cases (%)

Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

## Scenario 3 exit after day 50 with social distancing Week number (2020) Hospitalized (ARDS) Deaths Hospital Workload Hospital Workload compared to 2017 (%) Cases

Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

## Scenario 3 exit after day 50 with social distancing Week number (2020) 12 15 18 36 45 Hospitalized (ARDS) 4000 Deaths Hospital Workload Hospital Workload compared to 2017 (%) ന Cases (%) $\alpha$ 50 100 150 200 250 0

Days after 3/1/20 Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

#### Forecast COVID-19 in Germany Week number (2020) 9 11 13 15 17 25 27 29 31 6000000 Hospitalized (ARDS) Deaths 5500000 R0 = 0.4R0 = 0.65000000 R0 = 0.84500000 R0 = 1R0 = 1.24000000 R0 = 1.4R0 = 1.63500000 R0 = 1.8Growth Rate $(\mathsf{D}^{-1})$ R0 = 23000000 R0 = 2.2R0 = 2.42500000 2000000 1500000 1000000 500000 0 0.32 0 50 100 150

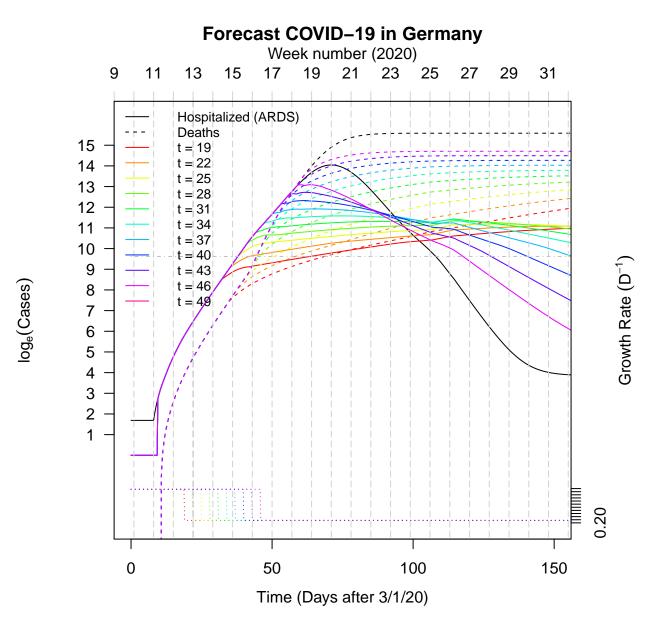
Created by Sören Thiering (07/09/2020). Email: soeren.thiering@hs-anhalt.de

Time (Days after 3/1/20)

#### Forecast COVID-19 in Germany Week number (2020) 9 31 11 13 15 17 19 25 27 29 6000000 Hospitalized (ARDS) Deaths 5500000 t = 19t = 22 5000000 t = 254500000 t = 28t = 31 4000000 t = 34t = 37 3500000 t = 40Growth Rate (D<sup>-1</sup>) t = 433000000 t = 46Cases t = 492500000 2000000 1500000 1000000 500000 0 0.20 150 0 50 100

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Time (Days after 3/1/20)



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