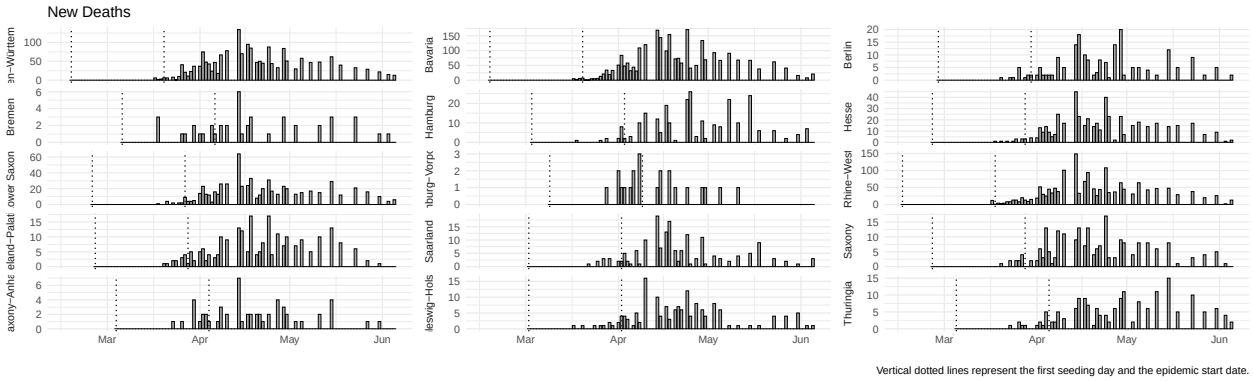
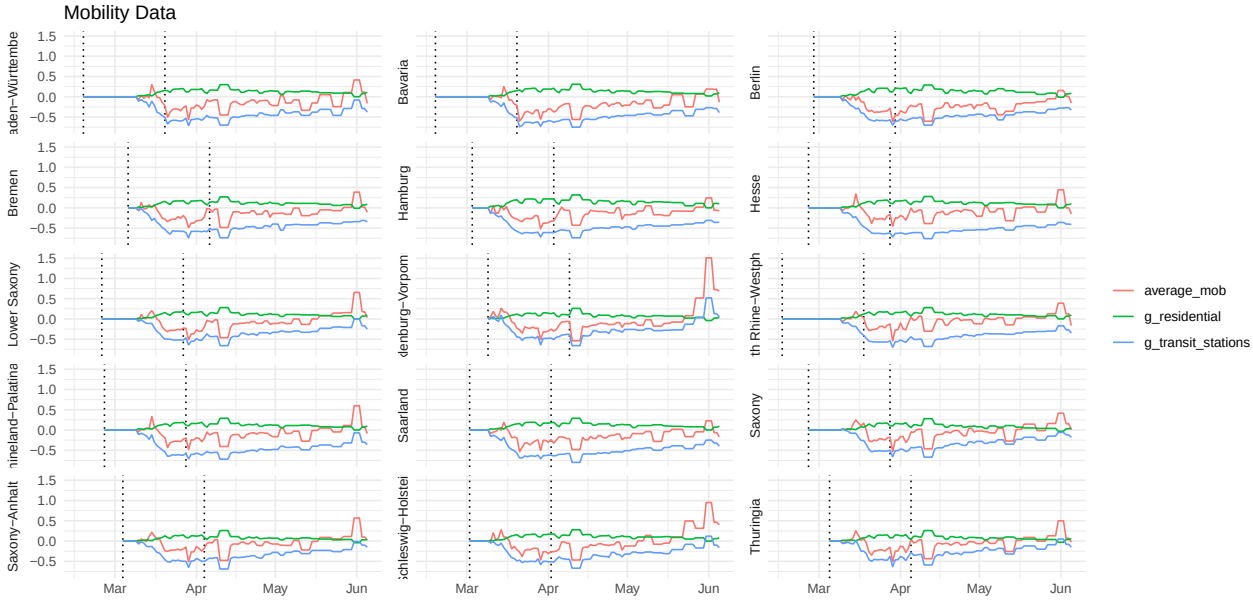
# Germany

## Data




Vertical dotted lines represent the first seeding day and the epidemic start date.

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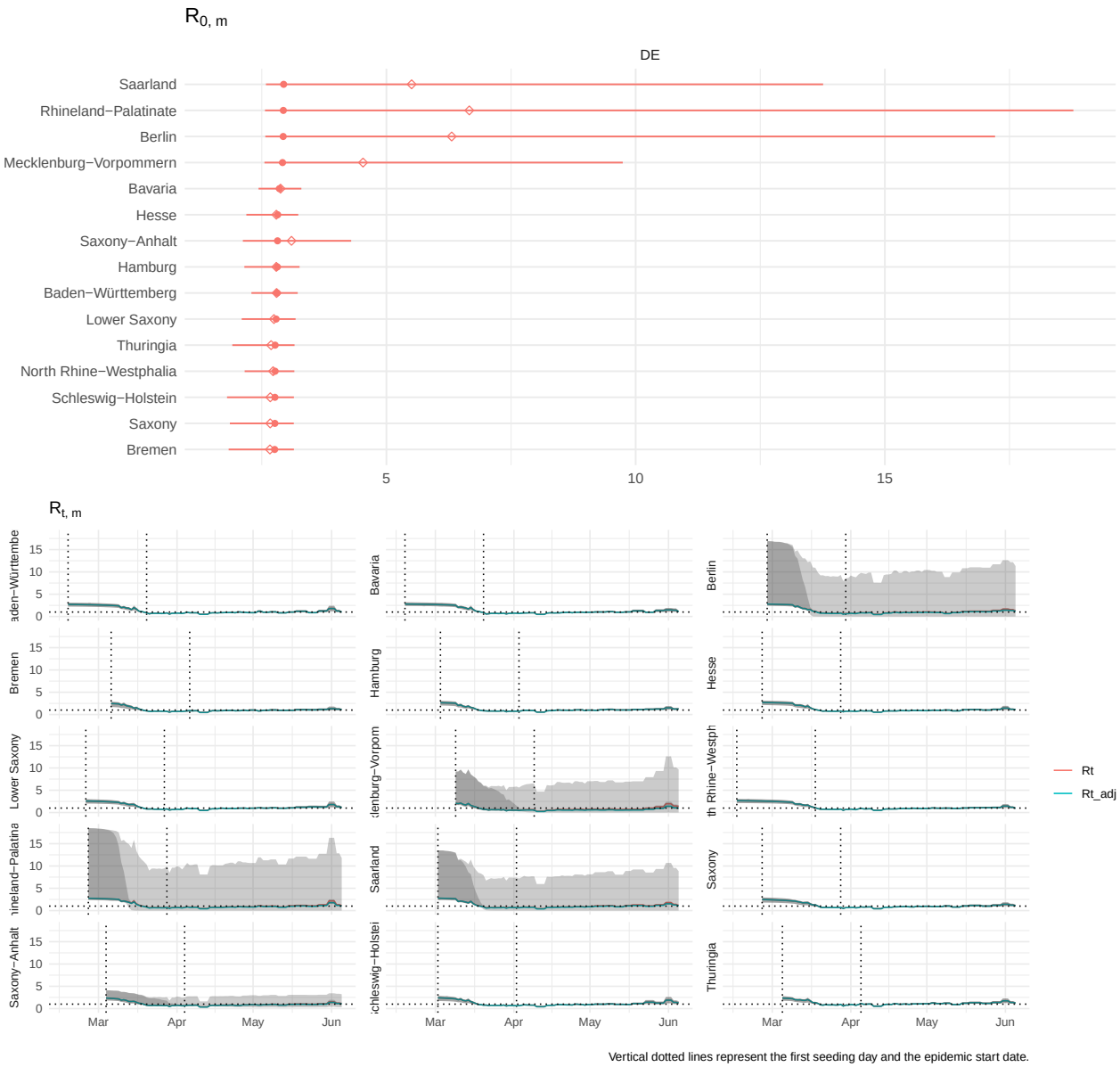
## Analysis

Number of divergent transitions = 13

Maximum $\hat{R}$ = 1.586597

Minimum Bulk ESS = 6.893103

Minimum Tail ESS = 6.847942

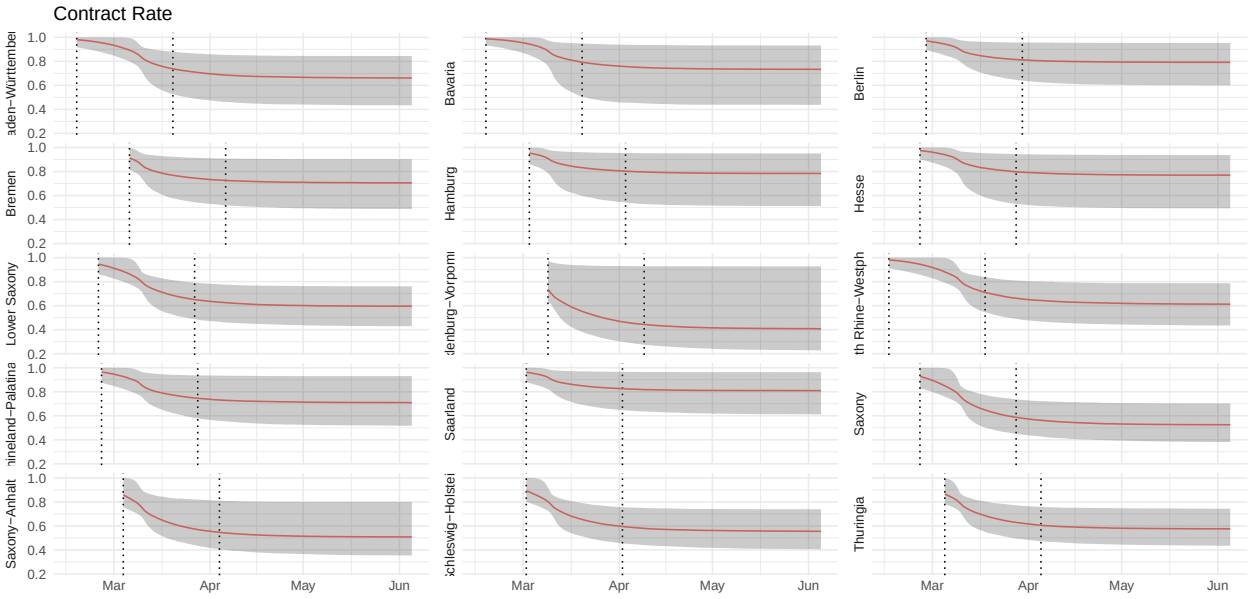



Contact rate function:

$$cr(t; t^*, \lambda_j, \kappa) = \lambda_j + \frac{1 - \lambda_j}{1 + \exp(\kappa(t - t^*))}$$

where

$$\lambda_j \sim \texttt{Beta}(3, 1)$$
$$\kappa \sim \texttt{NegHalfNormal}(0, 1).$$

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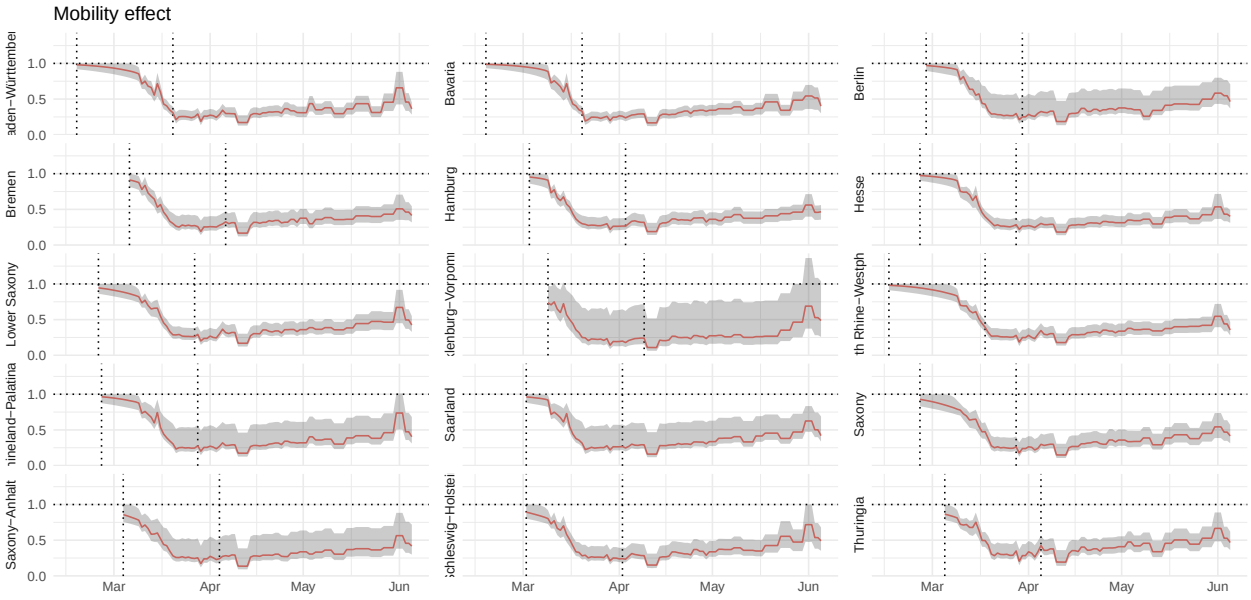


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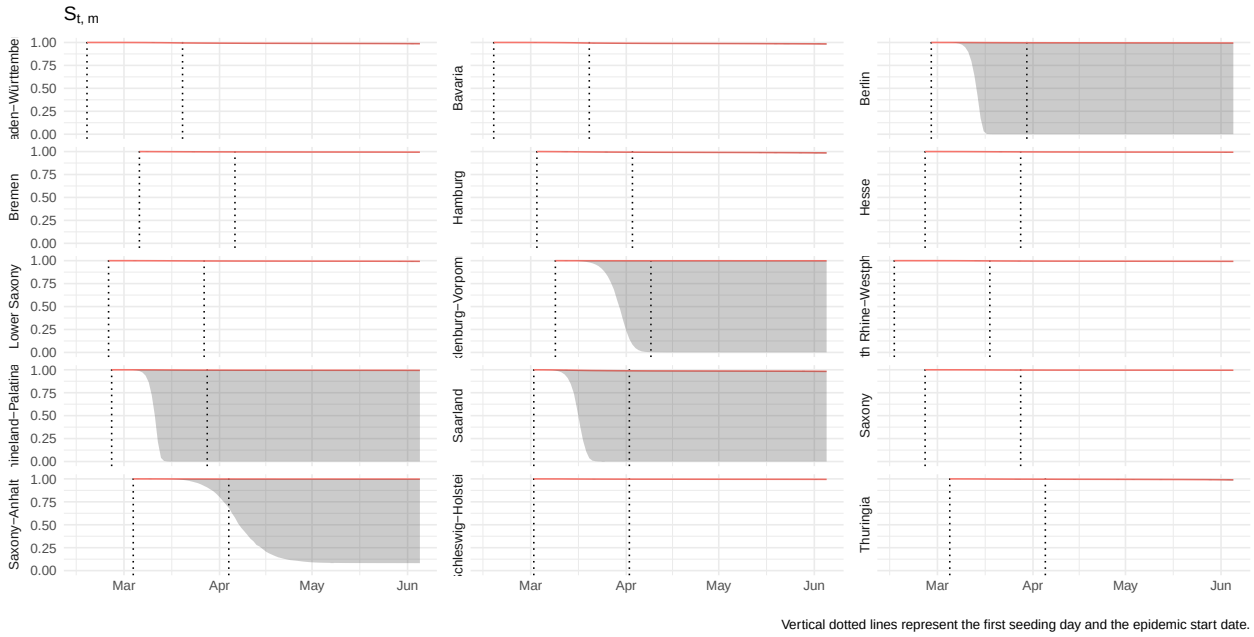
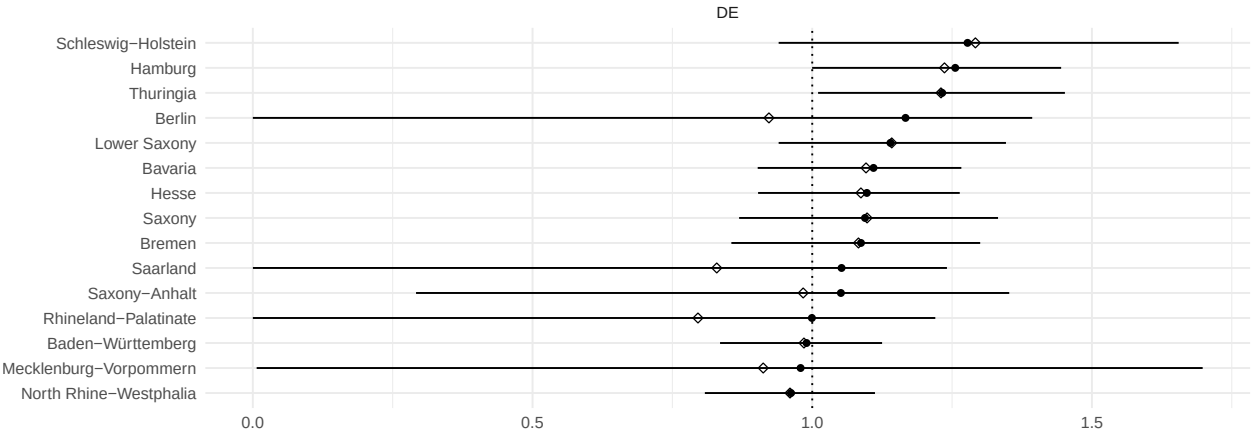
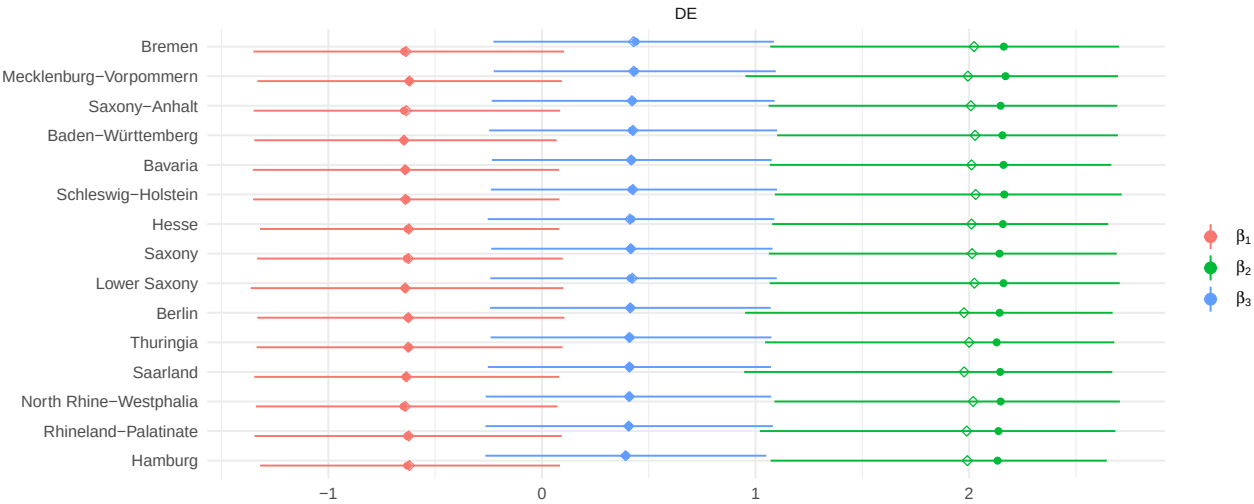


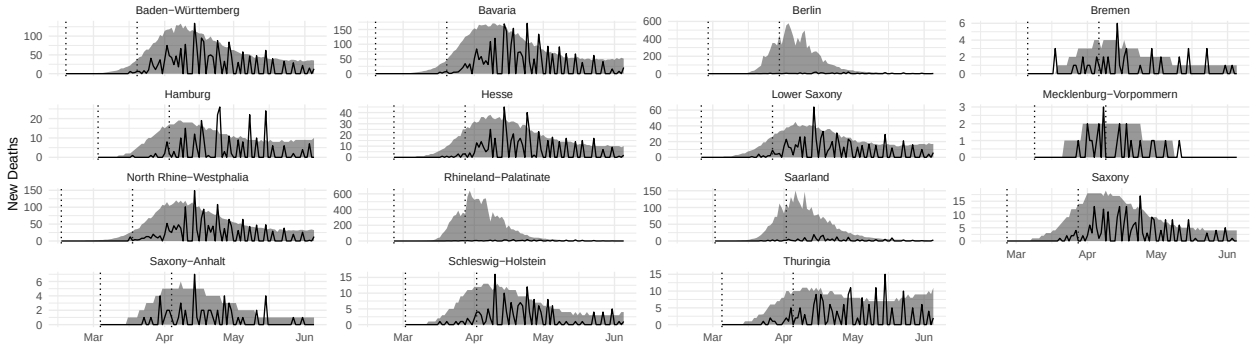

$R_{t,m}$ on the last day




Mobility linear model: $\beta_1 \cdot X_{\text{residential}} + \beta_2 \cdot X_{\text{transit}} + \beta_3 \cdot X_{\text{average}}$.

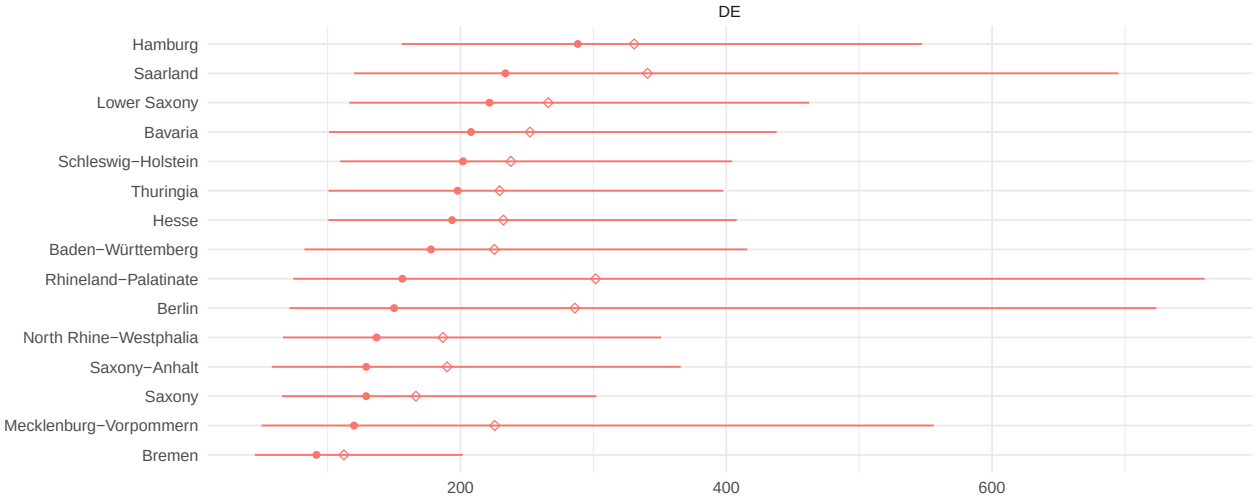
β






Solid black line: observed new deaths. Grey ribbon: posterior predicted new deaths.
Vertical dotted lines represent the first seeding day and the epidemic start date.

## Imputed Cases




## IFR