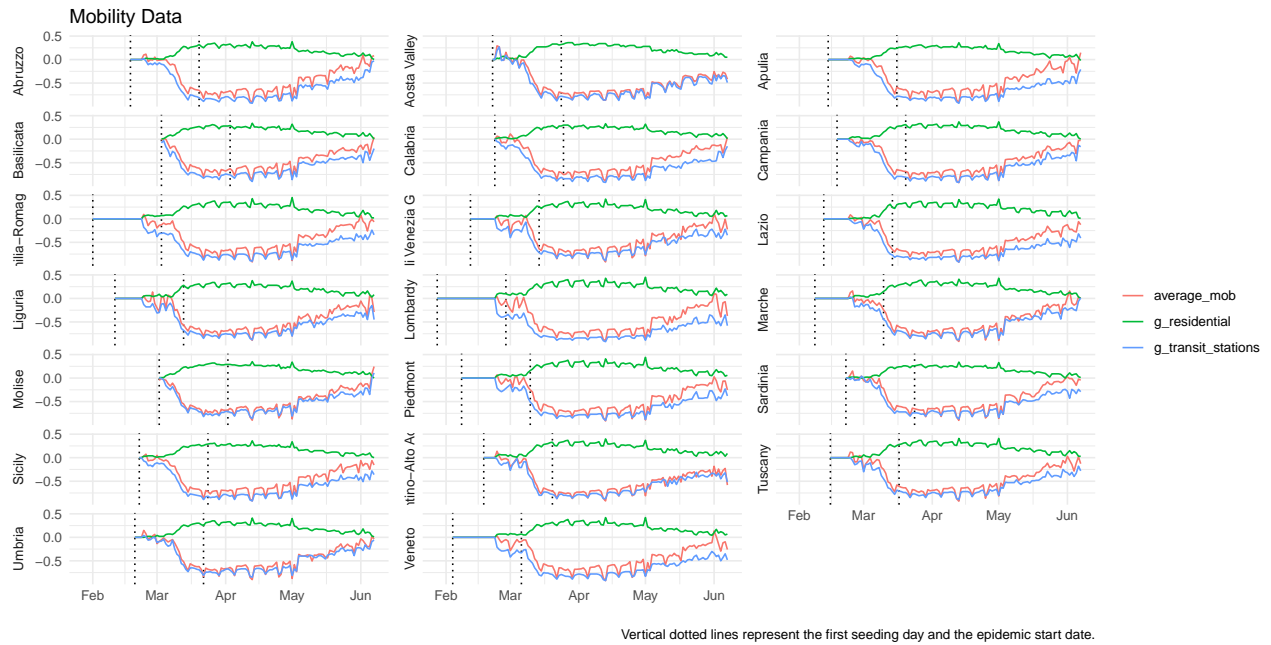
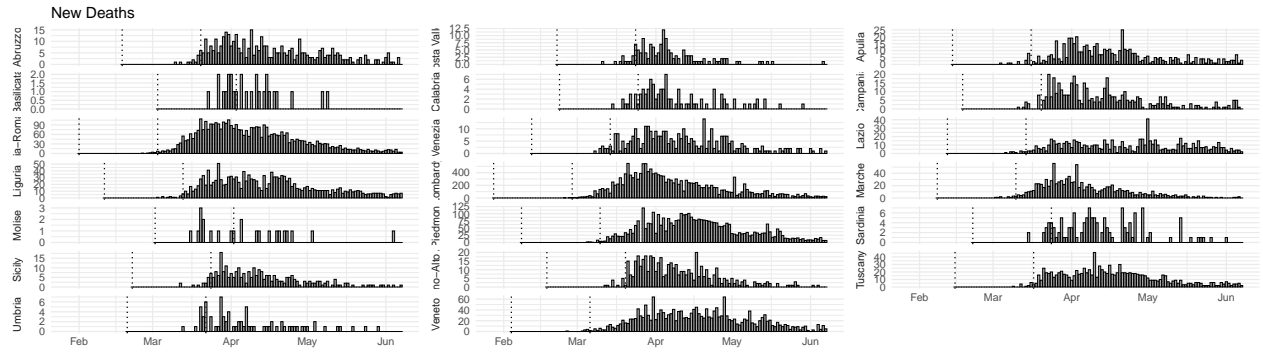


Italy

Data



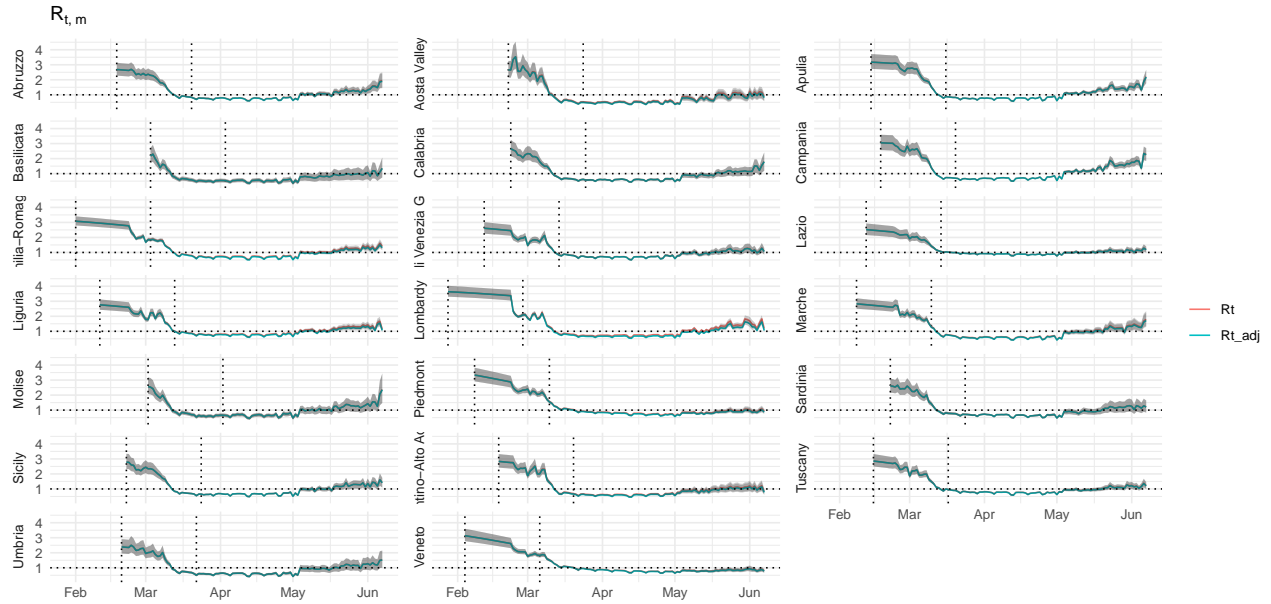
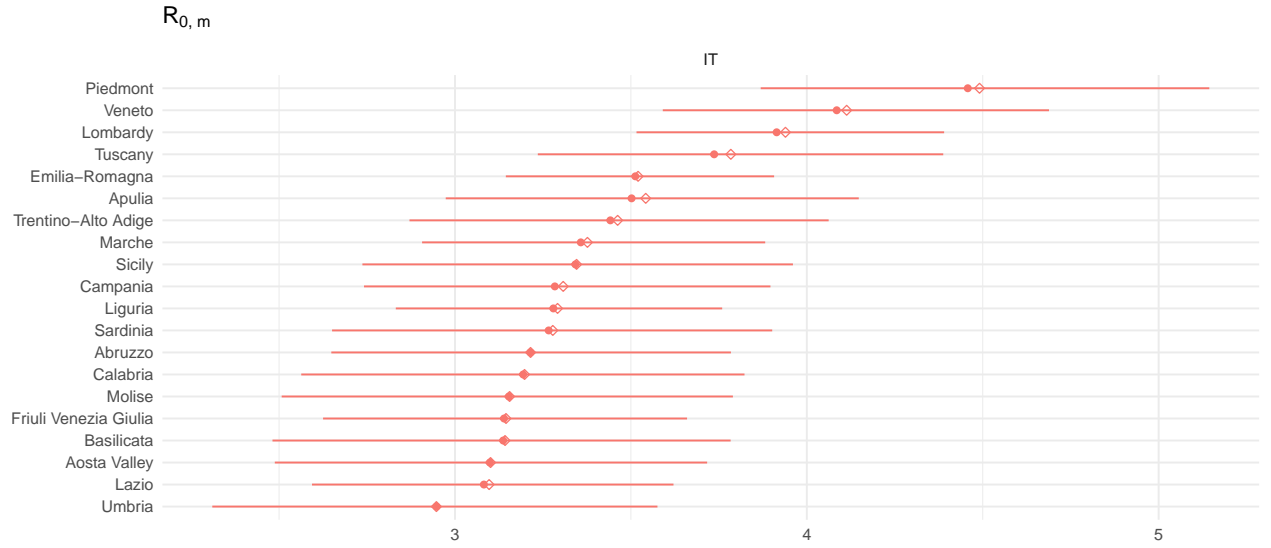
Analysis

Number of divergent transitions = 0

Maximum $\hat{R} = 1.011353$

Minimum Bulk ESS = 521.7068

Minimum Tail ESS = 417.7496



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

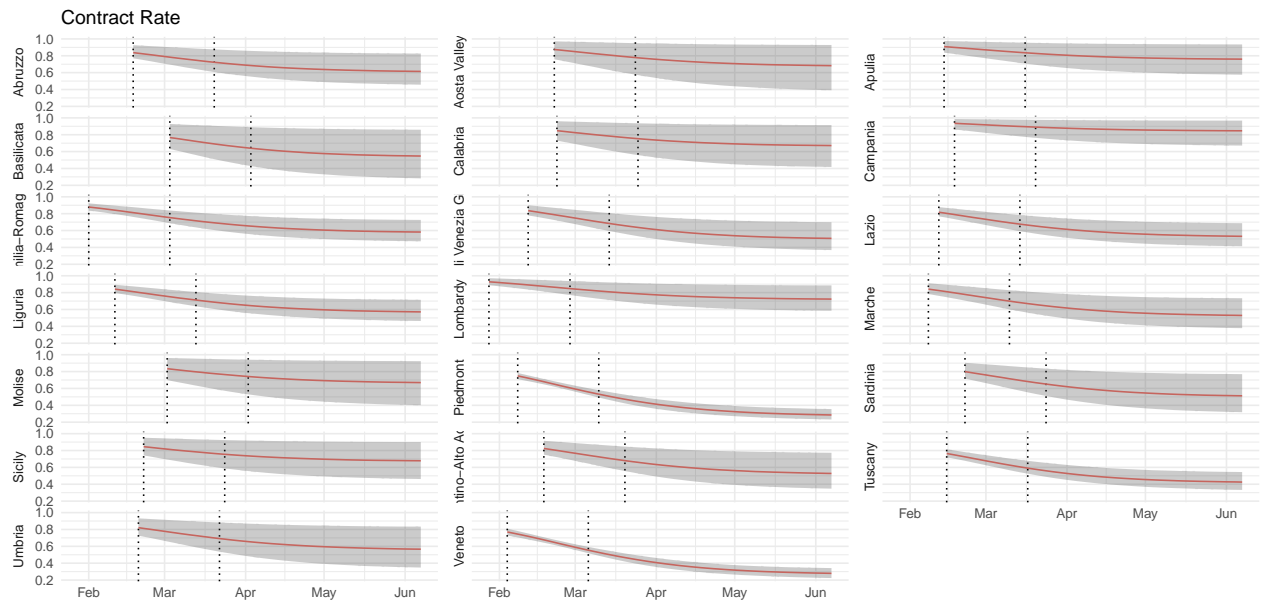
Contact rate function:

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

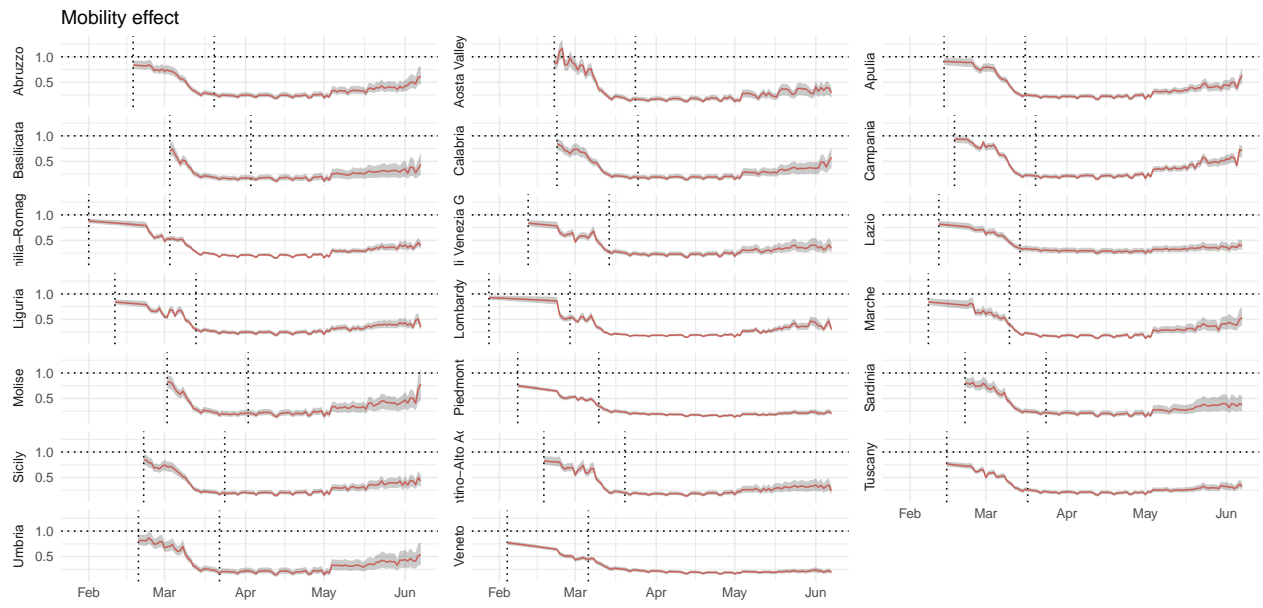
where

$$\lambda_j \sim \text{Beta}(3, 1)$$

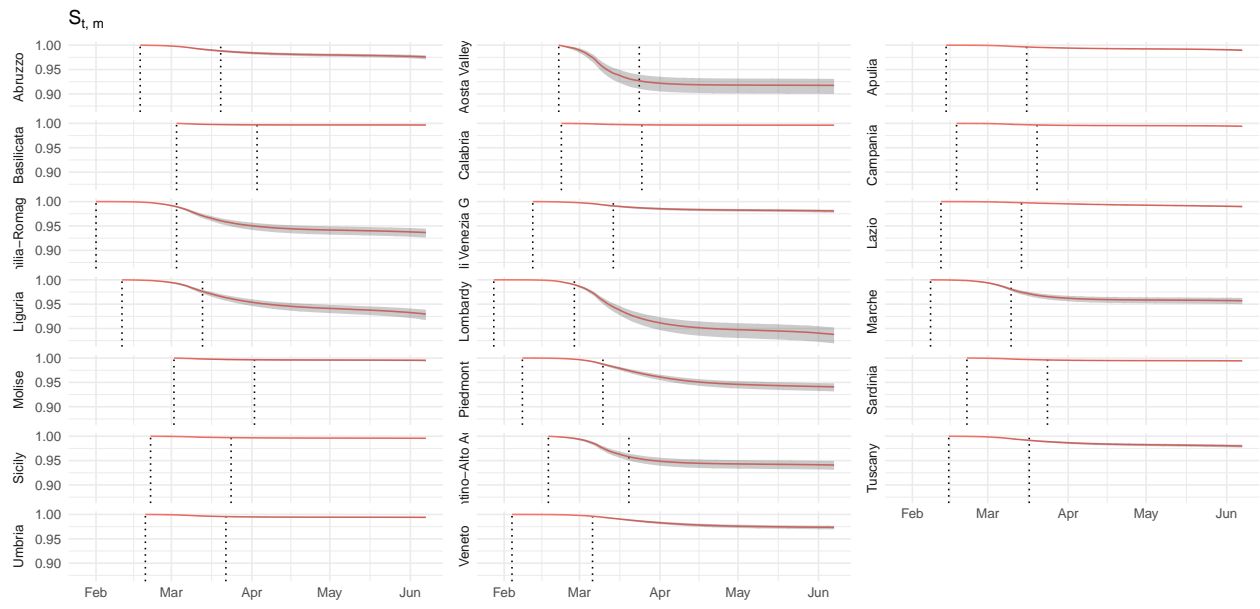
$$\kappa \sim \text{NegHalfNormal}(0, 1).$$



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

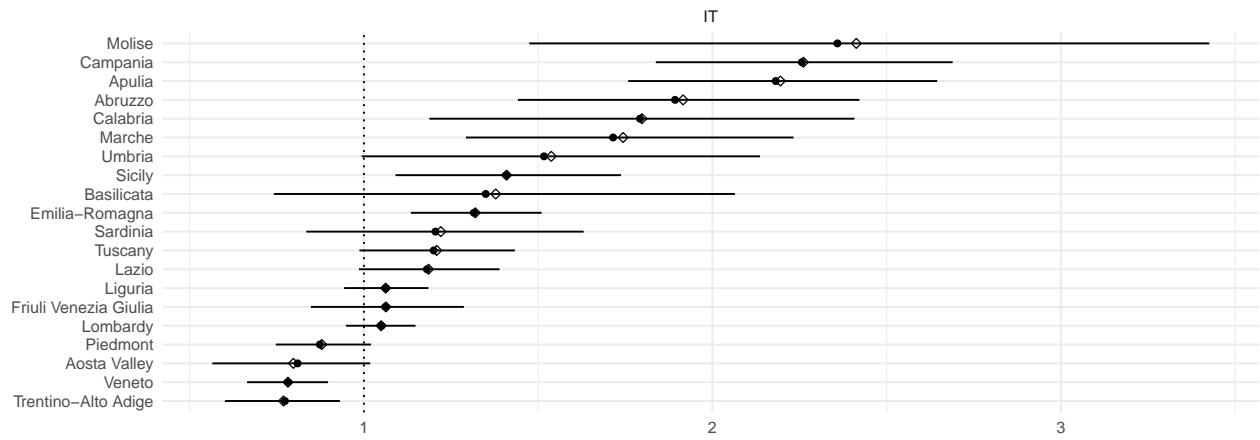


Vertical dotted lines represent the first seeding day and the epidemic start date.



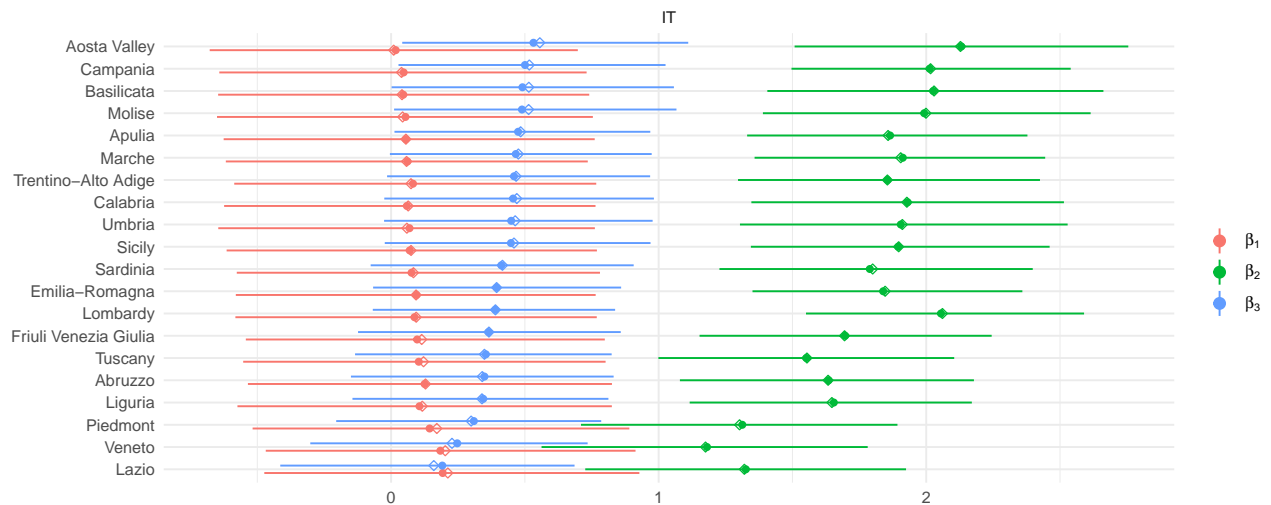
Vertical dotted lines represent the first seeding day and the epidemic start date.

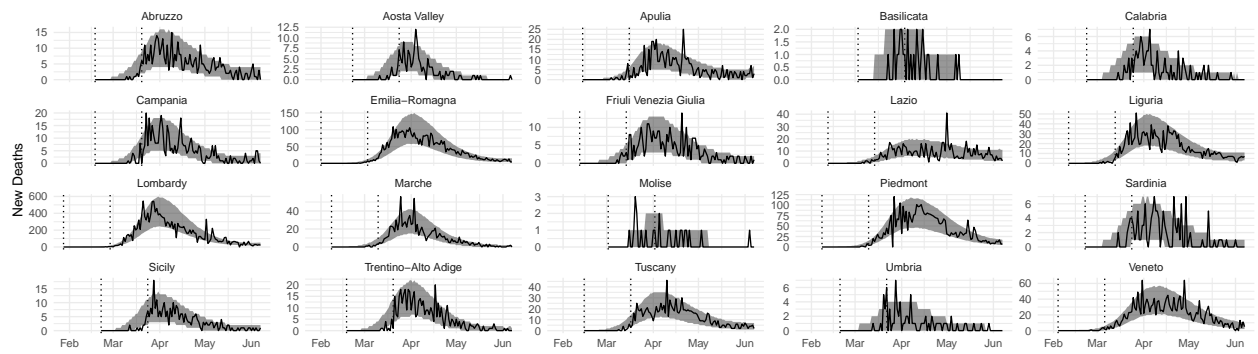
$R_{t,m}$ on the last day



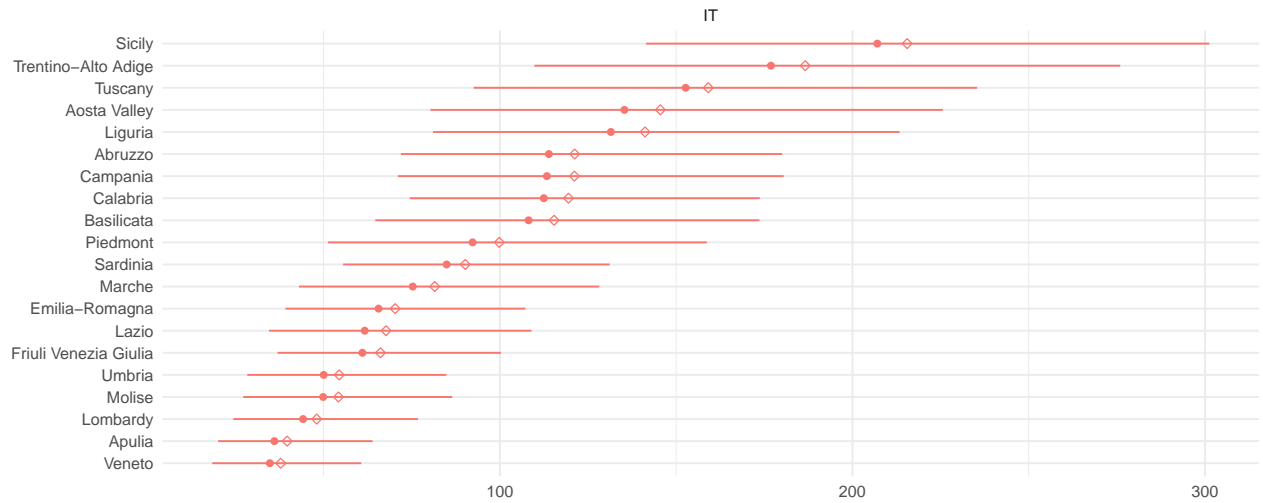
Mobility linear model: $\beta_1 \cdot X_{\text{residential}} + \beta_2 \cdot X_{\text{transit}} + \beta_3 \cdot X_{\text{average}}$

β





Imputed Cases



IFR

