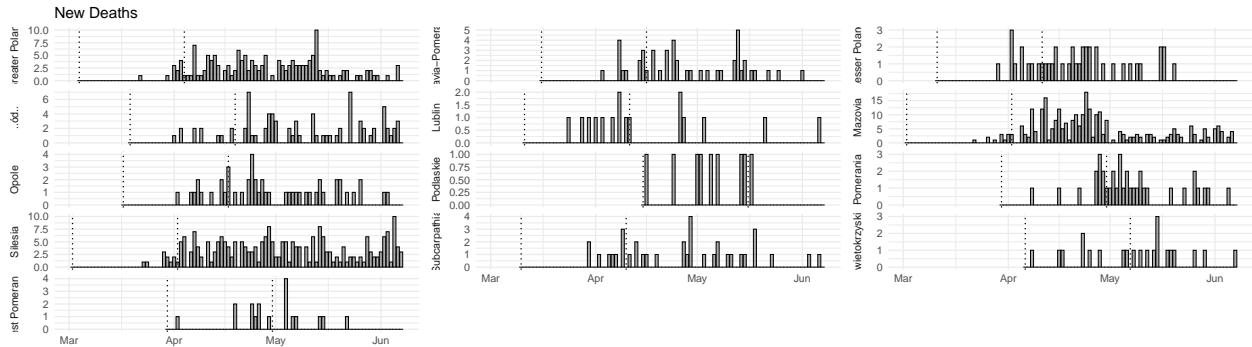# Poland

Data

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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Vertical dotted lines represent the first seeding day and the epidemic start date.

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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```


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

Analysis

Number of divergent transitions = 0

Maximum $\hat{R}$ = 1.004762

Minimum Bulk ESS = 1009.448

Minimum Tail ESS = 957.6133

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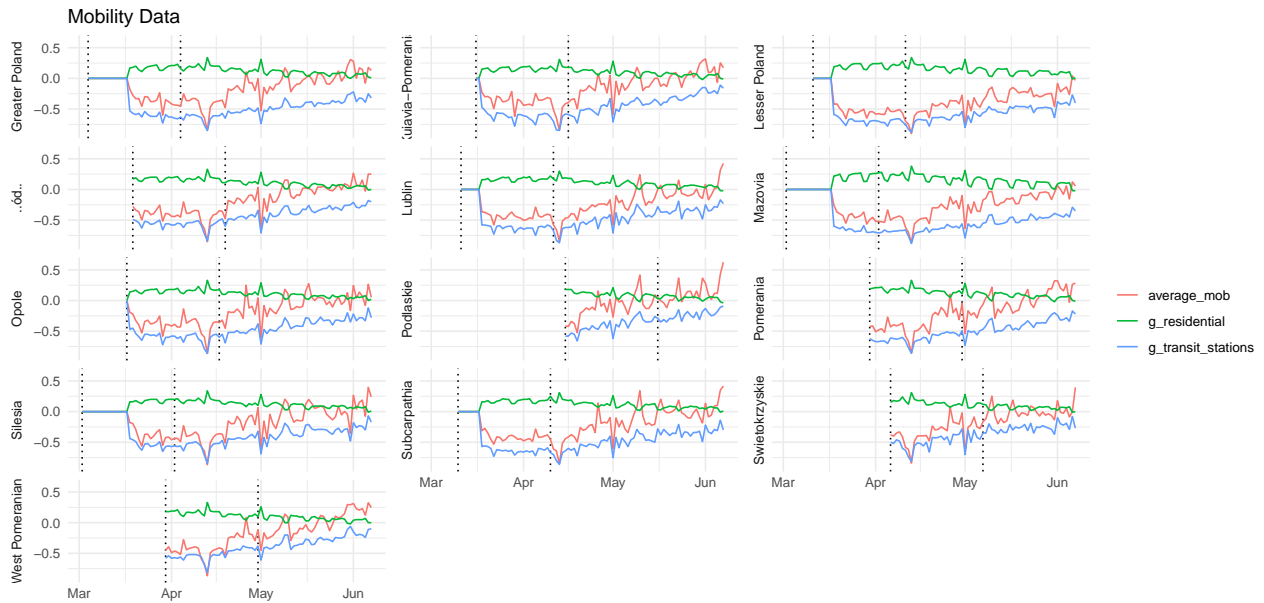
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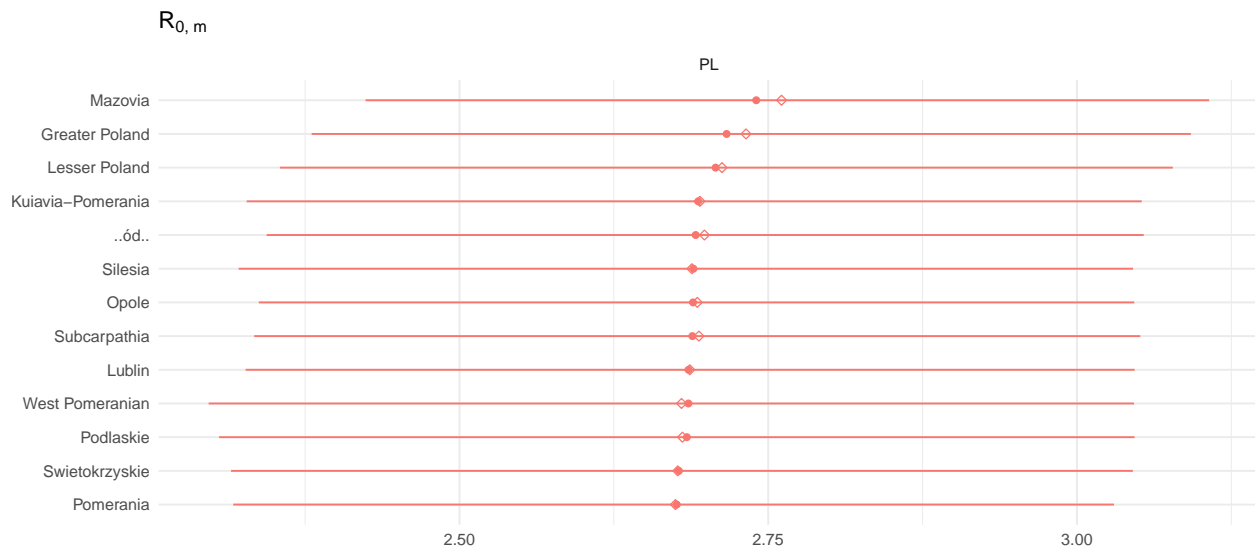
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$R_{0, m}$


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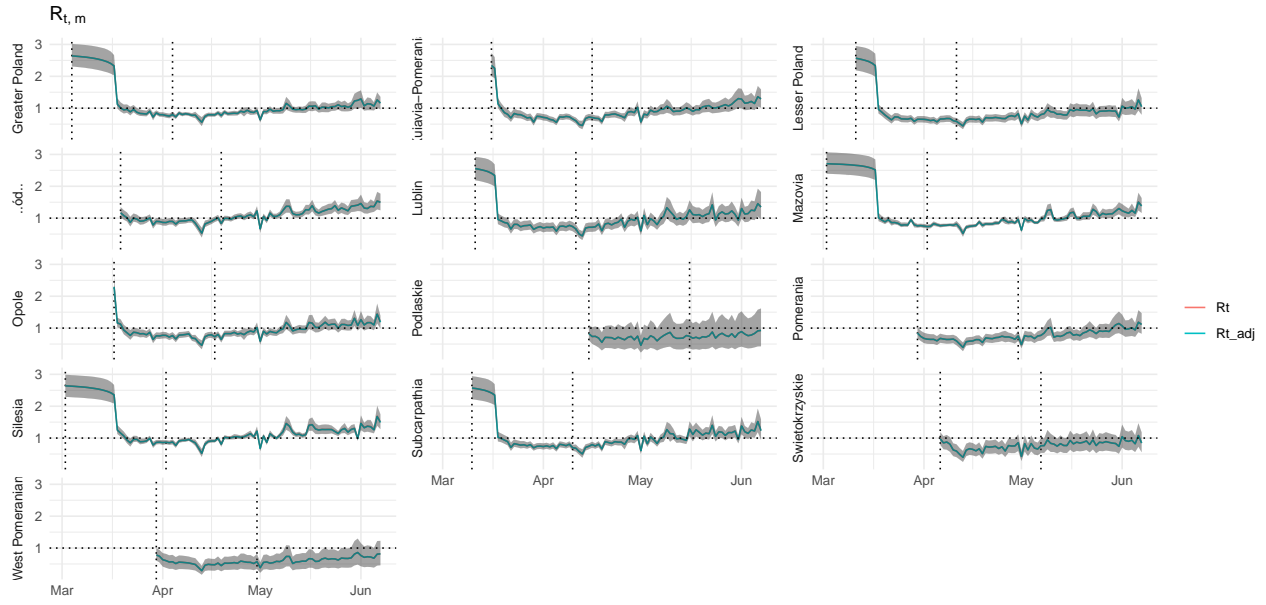
$R_{t,m}$

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

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

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
```


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

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
```

```
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
```

Mobility effect

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

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
```
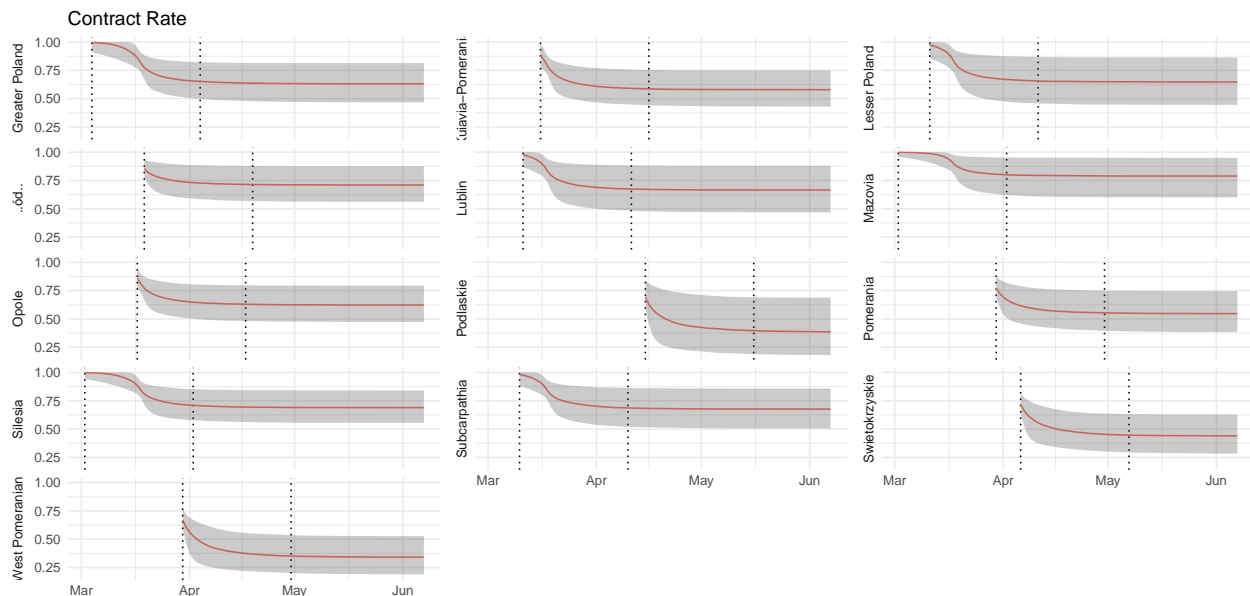
```
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
```


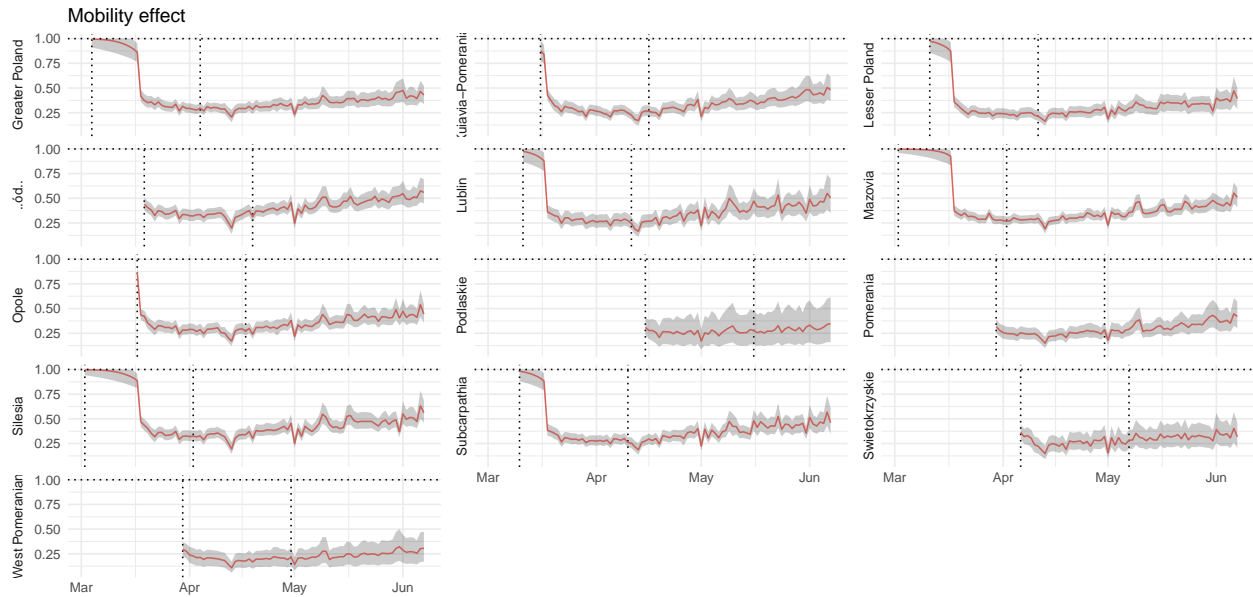Vertical dotted lines represent the first seeding day and the epidemic start date.

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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```
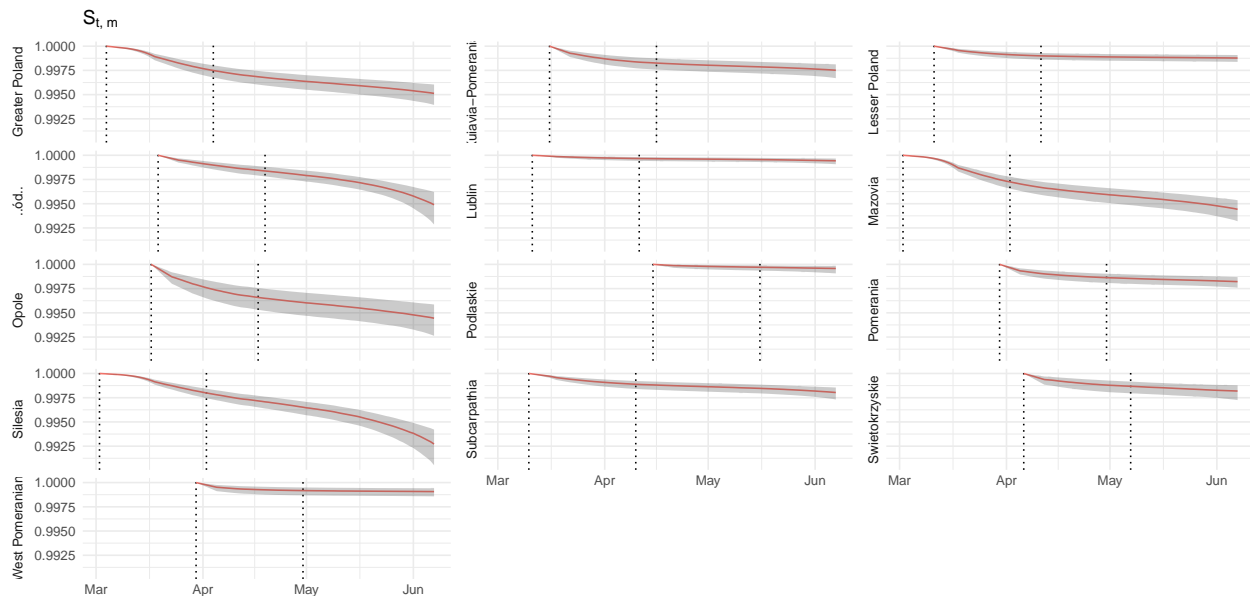
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
```


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

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

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
```

```
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
```
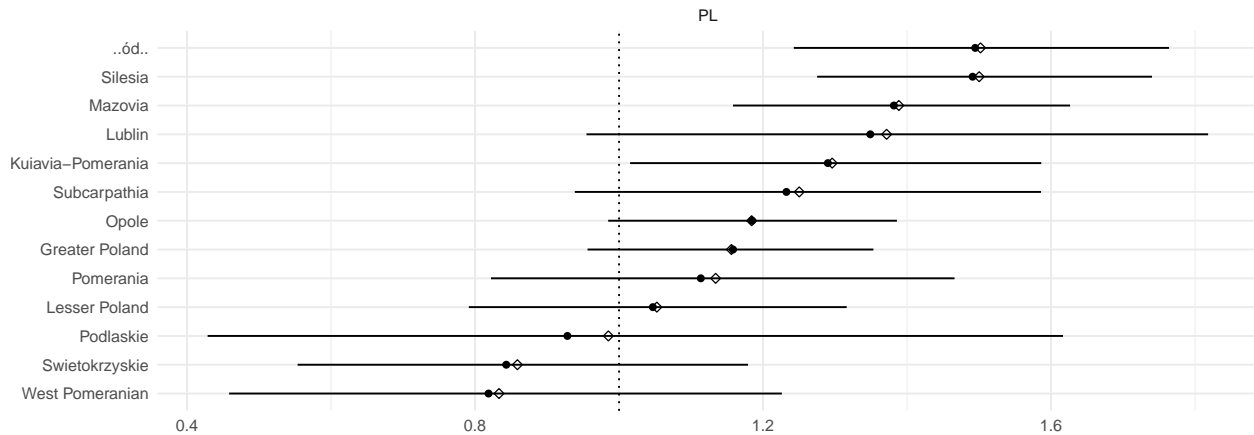
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
```



```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
```
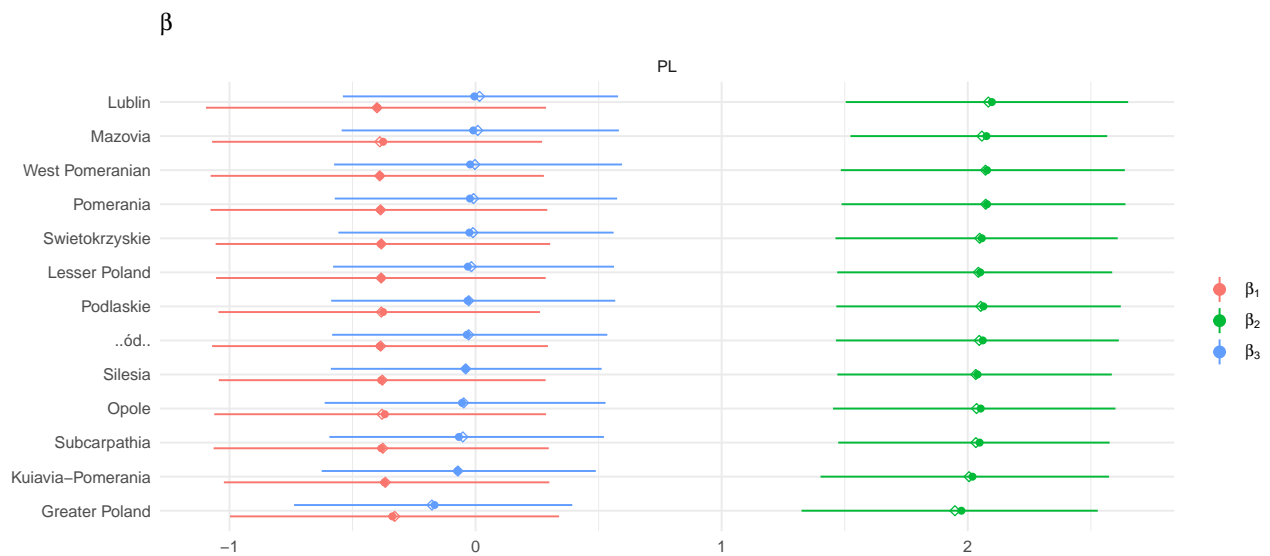
```
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
```


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.
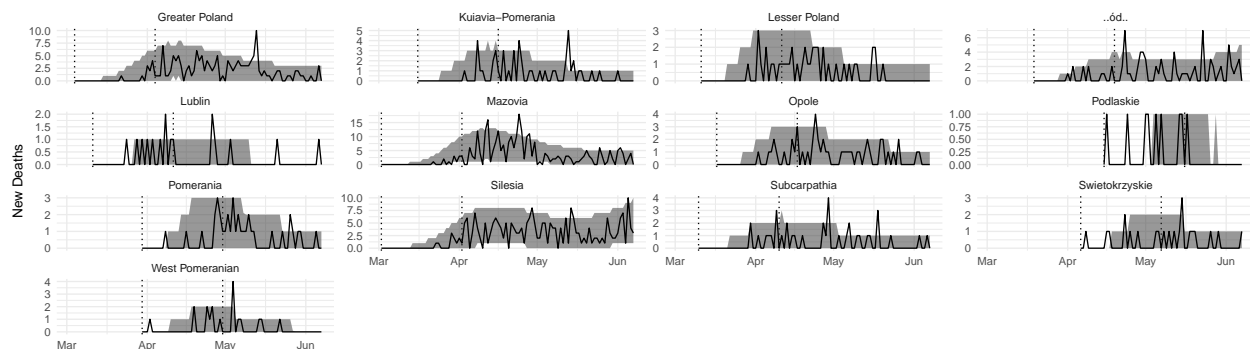
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
```

```
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
```
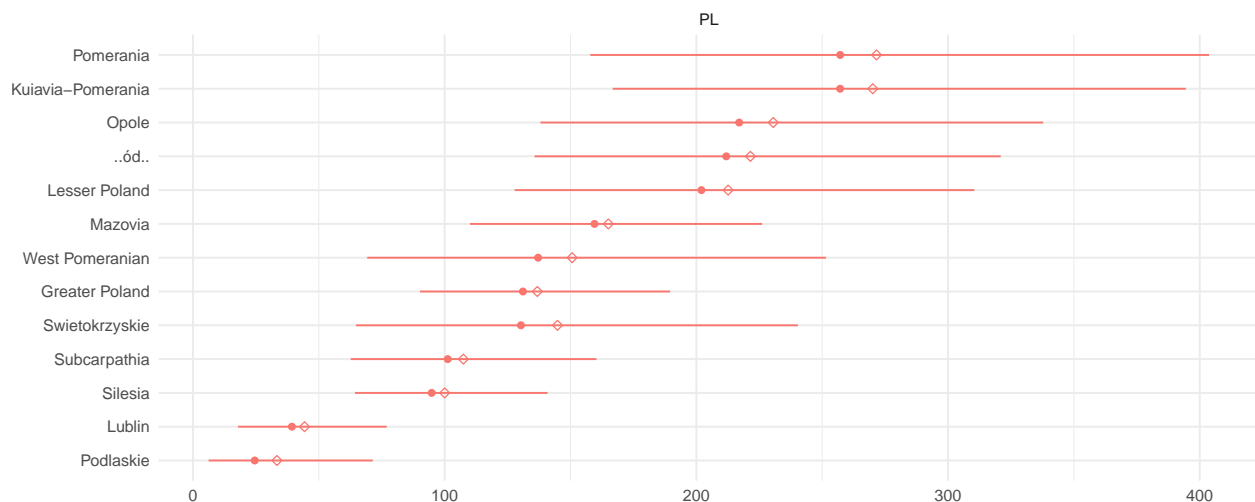
Imputed Cases


```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
```

```
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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IFR