Poland

Data

```
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
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   New Cases
 120
80
40
0
reater
 120
80
40
                                                                      150
100
50
                                                                      50
40
30
20
10
0
                                                                    Pomerania
  20
10
                 500
400
300
200
100
```

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

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   New Deaths
reater
                                 1.5
1.0
0.5
ód..
                                 0.0
1.00
0.75
0.50
0.25
0.00
                                                                                    moned m on
                                                                  Vertical dotted lines represent the first seeding day and the epidemic start date
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    Mobility Data
  0.5
Sreater Poland
  0.0
  -0.5
  0.5
  0.0
ód..
  -0.5
  0.5
                                                                                         average mob
  0.0
  -0.5
                                                                                         g_transit_stations
  0.5
Silesia
  0.0
  -0.5
                                 Mar
                                                             Mai
West Pomeranian
  0.5
  0.0
  -0.5
      Mar
```

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

Analysis

```
Number of divergent transitions = 134
```

Maximum $\hat{R} = 2.0979$

Minimum Bulk ESS = 5.295794

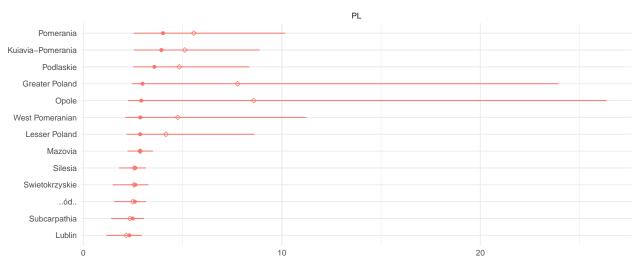
Minimum Tail ESS = 4.415785

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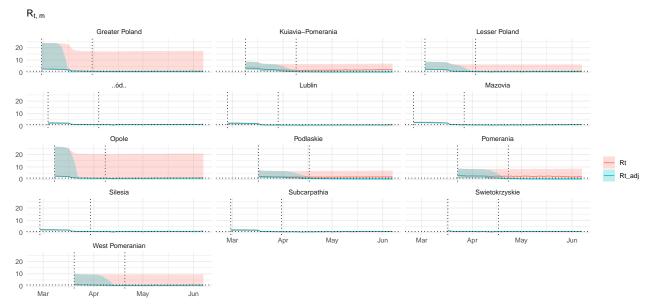
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label),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



Vertical dotted lines represent the first seeding day and the epidemic start date Ribbons represent the 80% credible intervals

Contact rate function:

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

where

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

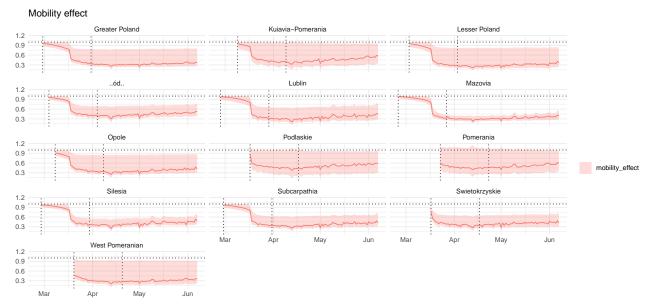
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
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```
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
  Contact Rate
             Greater Poland
                                           Kuiavia-Pomerania
                                                                          Lesser Poland
0.8
0.6
0.4
0.2
                ..ód.
                                              Lublin
                                                                            Mazovia
1.0
0.8
0.6
0.2
               Onole
                                             Podlaskie
                                                                           Pomerania
1.0
0.8
                                                                                               trend
0.4
               Silesia
                                            Subcarpathia
                                                                          Swietokrzyskie
1.0
0.8
0.6
0.4
                                                                                May
                                                  May
                                                          Jun
                                                                 Mai
                                                                                         Jun
             West Pomeranian
1.0
0.6
0.2
                                                       Vertical dotted lines represent the first seeding day and the epidemic start date.

Ribbons represent the 80% credible intervals.
## 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, :
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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, :

```
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```



Vertical dotted lines represent the first seeding day and the epidemic start date Ribbons represent the 80% credible intervals

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

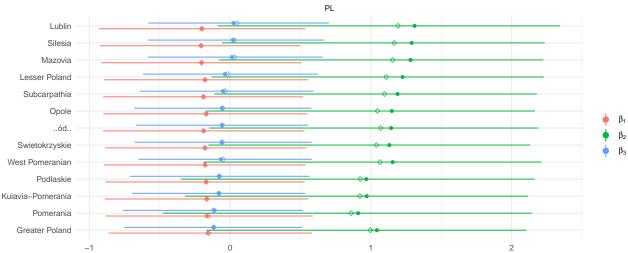
```
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
   S<sub>t. m</sub>
              Greater Poland
                                           Kuiavia-Pomerania
1.00
0.75
0.50
0.25
0.00
                                               Lublin
                                                                            Mazovia
                 ..ód.
1.00
0.50
0.25
                Opole
                                              Podlaskie
                                                                            Pomerania
0.75
0.50
                                                                                               adj_factor
                                                                           Swietokrzyskie
                Silesia
                                             Subcarpathia
0.75
0.50
0.00
                                   Mai
                                                   May
                                                           Jun
                                                                                          Jun
             West Pomeraniar
1.00
0.75
0.50
0.00
    Mar
                    Mav
                            Jun
                                                      Vertical dotted lines represent the first seeding day and the epidemic start date
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$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$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$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$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$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$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>
                                              PL
      Lublin
```



```
## 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>
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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$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$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>
## 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, :
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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>
             Greater Poland
New Deaths
               Opole
                                                                    Pomerania

    observed

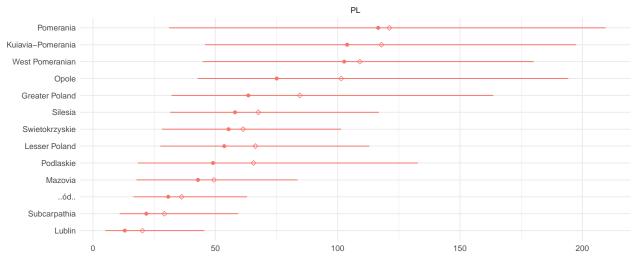
                                                                                      predicted median
                                                                   Swietokrzyskie
            West Pomeranian
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds,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

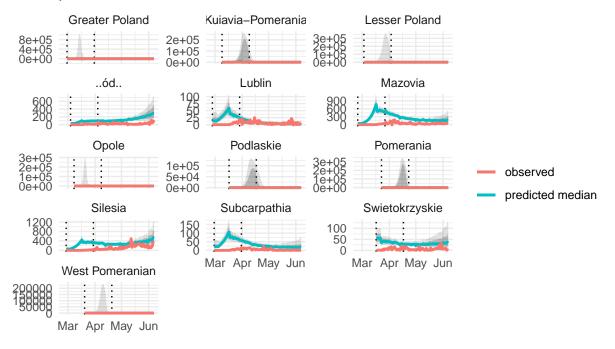
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for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

New Cases predicted vs observed



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.

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

