# Modeļi

## #Modelis 1 FDI\_log ~ KonvGadi

### Within

Oneway (individual) effect Within Model

#### Modelis

Call:

plm(formula = FDI\_log ~ KonvGadi, data = ForPlm, model = "within")

Unbalanced Panel: n = 139, T = 1-29, N = 2014

Residuals:

Min. 1st Qu. Median 3rd Qu. Max.

-7.50946 -0.65666 0.00000 0.95894 5.13723

Coefficients:

Estimate Std. Error t-value Pr(>|t|)

KonvGadi 0.2255272 0.0071737 31.438 < 2.2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Total Sum of Squares: 7200

Residual Sum of Squares: 4713.9

R-Squared: 0.3453

Adj. R-Squared: 0.29674

F-statistic: 988.364 on 1 and 1874 DF, p-value: < 2.22e-16

#### Komentāri

Kā interpretēt koeficientu (gradiants). +1 KonvGads asociējas ar 0,22 no FDI\_log un tas izskaidro 0.34 gadījumu?

### Random

Oneway (individual) effect Random Effect Model

(Swamy-Arora's transformation)

#### Modelis

Call:

plm(formula = FDI\_log ~ KonvGadi, data = ForPlm, model = "random")

Unbalanced Panel: n = 139, T = 1-29, N = 2014

Effects:

var std.dev share

idiosyncratic 2.515 1.586 0.359

individual 4.498 2.121 0.641

theta:

Min. 1st Qu. Median Mean 3rd Qu. Max.

0.4011 0.8215 0.8491 0.8239 0.8624 0.8624

Residuals:

Min. 1st Qu. Median Mean 3rd Qu. Max.

-6.8851 -0.7208 0.0976 0.0857 1.2299 4.9986

Coefficients:

Estimate Std. Error z-value Pr(>|z|)

(Intercept) -0.8854580 0.1885017 -4.6973 2.636e-06 \*\*\*

KonvGadi 0.2270564 0.0070293 32.3014 < 2.2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Total Sum of Squares: 7583.9

Residual Sum of Squares: 5006.1

R-Squared: 0.34186

Adj. R-Squared: 0.34153

Chisq: 1043.38 on 1 DF, p-value: < 2.22e-16

#### Komentāri

## # Modelis 1a FDI ~ KonvGadi

Oneway (individual) effect Within Model

Call:

plm(formula = FDI ~ KonvGadi, data = ForPlm, model = "within")

Unbalanced Panel: n = 139, T = 1-29, N = 2014

Residuals:

Min. 1st Qu. Median 3rd Qu. Max.

-900.994 -35.675 0.000 23.495 1392.132

Coefficients:

Estimate Std. Error t-value Pr(>|t|)

KonvGadi 19.52676 0.82752 23.597 < 2.2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Total Sum of Squares: 81364000

Residual Sum of Squares: 62727000

R-Squared: 0.22906

Adj. R-Squared: 0.17188

F-statistic: 556.808 on 1 and 1874 DF, p-value: < 2.22e-16

Oneway (individual) effect Random Effect Model

(Swamy-Arora's transformation)

Call:

plm(formula = FDI ~ KonvGadi, data = ForPlm, model = "random")

Unbalanced Panel: n = 139, T = 1-29, N = 2014

Effects:

var std.dev share

idiosyncratic 33472.2 183.0 0.538

individual 28735.8 169.5 0.462

theta:

Min. 1st Qu. Median Mean 3rd Qu. Max.

0.2665 0.7468 0.7849 0.7520 0.8035 0.8035

Residuals:

Min. 1st Qu. Median Mean 3rd Qu. Max.

-731.66 -39.68 3.90 1.11 19.20 1548.04

Coefficients:

Estimate Std. Error z-value Pr(>|z|)

(Intercept) -13.48526 15.59882 -0.8645 0.3873

KonvGadi 19.14051 0.79214 24.1631 <2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

KonvGadi 19.14051 – nozīmē, ka 1 konvencijas gads asociējas ar 19.15M (konkrētajā gadā, kā saprotu). St. Error -

Total Sum of Squares: 84108000

Residual Sum of Squares: 65401000

R-Squared: 0.22244

Adj. R-Squared: 0.22206

Chisq: 583.854 on 1 DF, p-value: < 2.22e-16

## #Model 1b - FDI\_log ~ KonvGadi #bez ārzonām

## #Model 1c - FDI ~ KonvGadi #bez ārzonām

## #Model 1c - FDI + Konv

## #Modelis 2 - FDI\_log + GDP

## #Modelis 3 - FDI\_log + GDP + eu27

## #Modelis 4 - FDI\_log + eu27

## #Modelis 4a - FDI + eu27

## #Modelis 4b - FDI + euLV

## #Modelis 5 - FDI\_log + dist + eu27

## # 5a

## #5b FDI\_log + log(dist (-arzonas)) + eu27

# Modeļu tabula

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|  |  | #Modelis 1 FDI\_log ~ KonvGadi | # Modelis 1a FDI ~ KonvGadi |  |  |  |  |  |  |  |
| Residuals | Min. | -7.50946 |  |  |  |  |  |  |  |  |
|  | 1st Qu. | -0.65666 |  |  |  |  |  |  |  |  |
|  | Median | 0.00000 |  |  |  |  |  |  |  |  |
|  | 3rd Qu. | 0.95894 |  |  |  |  |  |  |  |  |
|  | Max. | 5.13723 |  |  |  |  |  |  |  |  |
| KonvGad | Estimate | 0.2255272 |  |  |  |  |  |  |  |  |
|  | Std. Error | 0.0071737 |  |  |  |  |  |  |  |  |
|  | t-value | 31.438 |  |  |  |  |  |  |  |  |
|  | Pr(>|t|) | < 2.2e-16 \*\*\* |  |  |  |  |  |  |  |  |
| TSS |  |  |  |  |  |  |  |  |  |  |
| RSS |  |  |  |  |  |  |  |  |  |  |
| R-Squared: |  |  |  |  |  |  |  |  |  |  |
| Adj. R-Squared: |  |  |  |  |  |  |  |  |  |  |
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