Political elite discourses polarize attitudes toward immigration along ideological lines. A comparative longitudinal analysis of Europe in the twenty-first century

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Online Appendix

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A. Full models with cross-level interactions with educational level

Our analysis of interactions between actual inflow, positive and negative political discourse and individuals' education levels did not yield any significant results. Since the full estimation tables are very large because of the many interactions and variance components and since space in the article is limited, we put the results here in the online appendix. Table AO1 presents the results from models M16 to M20. In the paper, these models are presented in Figure 2.

Note that some of the standard errors of the co-variances between the random effects could not be estimated in some of the models (indicated by na in the estimation table). This is not surprising, given that we estimate such a large number of random effects from our data. We also tested simpler models without random slopes (available upon request), which led us to the same conclusion: There is no consistent interaction between education levels and the macro-level variables.

Table OA1: Cross-level interaction effects with education

	M16		M17		M18		M19		M20	
Year	0.003		0.003		0.003		0.002		0.003	
Individual-level variables										
Sex (Ref. = male)										
Female	0.032	***	0.032	***	0.031	***	0.032	***	0.031	***
Age	0.074	***	0.074	***	0.074	***	0.074	***	0.074	***
Age^2	-0.018	***	-0.018	***	-0.018	***	-0.018	***	-0.018	***
Migration background (Ref. = no)										
Yes	-0.307	***	-0.307	***	-0.307	***	-0.307	***	-0.307	***
Education (Ref. = high)										
ISCED 3-4	0.369	***	0.368	***	0.369	***	0.370	***	0.368	***
ISCED 0-2	0.545	***	0.543	***	0.545	***	0.543	***	0.541	***
Left-right	0.083	***	0.083	***	0.083	***	0.083	***	0.083	***
Context-level variables										
Inflow foreigners [BE]	-0.113		-0.168	**	-0.130	*	-0.127	*	-0.171	**
Inflow foreigners [WE]	-0.060	***	-0.055	***	-0.060	***	-0.060	***	-0.055	***
Exclusionary Discourse [BE]	0.072		0.079		0.091		0.078		0.047	
Exclusionary Discourse [WE]	0.052	***	0.052	***	0.060	***	0.052	***	0.061	***
Inclusionary Discourse [BE]	-0.031		0.052		0.052		0.099		0.112	
Inclusionary Discourse [WE]	-0.039	**	-0.039	**	-0.039	***	-0.044	**	-0.046	***
GDP/c [BE]	-0.077		0.054		0.054		0.052		0.054	
GDP/c [WE]	-0.064	*	-0.064	*	-0.065	*	-0.064	*	-0.064	*
Education										
ISCED 3-4 [BE]			1.666	**	1.665	**	1.666	**	1.663	**
ISCED 0-2 [BE]			1.835	**	1.838	**	1.832	**	1.850	**
Cross-level interactions										
ISCED 3-4 X Inflow foreigners [BE]			0.033						0.039	*
ISCED 0-2 X Inflow foreigners [BE]			0.052	*					0.061	*
ISCED 3-4 X Inflow foreigners [WE]			0.003						0.000	
ISCED 0-2 X Inflow foreigners [WE]			-0.013						-0.010	
ISCED 3-4 X Exclusionary Discourse [BE]					0.022				0.032	
ISCED 0-2 X Exclusionary Discourse [BE]					0.012				0.047	
ISCED 3-4 X Exclusionary Discourse [WE]					0.007				0.006	
ISCED 0-2 X Exclusionary Discourse [WE]					-0.020	*			-0.020	

Continued on next page

Continuation of Table OA1

	Var	(se)	Var	(se)	Var	(se)	Var	(se)	Var	(se)
ISCED 3-4 X Inclusionary Discourse [BE]							0.019		0.007	
ISCED 0-2 X Inclusionary Discourse [BE]							-0.013		-0.031	
ISCED 3-4 X Inclusionary Discourse [WE]							0.007		0.005	
ISCED 0-2 X Inclusionary Discourse [WE]							0.009		0.013	
Constant	-0.299 ***		-1.557 ***		-1.560 ***		-1.555 ***		-1.558 ***	
Variance components	Var	(se)	Var	(se)	Var	(se)	Var	(se)	Var	(se)
Country level (between country)										
Var(ISCED 3-4)	0.012	(0.004)	0.011	(0.004)	0.011	(0.004)	0.011	(0.003)	0.010	(0.003)
Var(ISCED 0-2)	0.021	(0.006)	0.018	(0.006)	0.021	(0.007)	0.021	(0.006)	0.017	(0.006)
Var(Constant)	0.052	(0.034)	0.049	na	0.051	(0.021)	0.049	(0.022)	0.048	(0.019)
Cov(ISCED 3-4, ISCED 0-2)	0.014	na	0.012	na	0.014	(0.005)	0.014	na	0.012	(0.004)
Cov(ISCED 3-4, Constant)	-0.004	na	-0.005	na	-0.006	(0.007)	-0.007	(0.004)	-0.005	(0.006)
Cov(ISCED 0-2, Constant)	-0.010	(0.032)	-0.013	na	-0.015	(0.011)	-0.014	na	-0.012	(0.009)
Country-year level (within country)										
Var(ISCED 3-4)	0.004	(0.001)	0.004	(0.001)	0.004	(0.001)	0.004	(0.001)	0.004	(0.001)
Var(ISCED 0-2)	0.007	(0.001)	0.007	(0.001)	0.007	(0.001)	0.007	(0.001)	0.007	(0.001)
Var(Constant)	0.018	(0.002)	0.018	(0.002)	0.018	(0.002)	0.018	(0.002)	0.018	(0.002)
Cov(ISCED 3-4, ISCED 0-2)	0.004	(0.001)	0.004	(0.001)	0.004	(0.001)	0.004	(0.001)	0.004	(0.001)
Cov(ISCED 3-4, Constant)	-0.002	(0.001)	-0.002	(0.001)	-0.002	(0.001)	-0.002	(0.001)	-0.002	(0.001)
Cov(ISCED 0-2, Constant)	-0.005	(0.001)	-0.005	(0.001)	-0.005	(0.001)	-0.005	(0.001)	-0.005	(0.001)
Var(Residual)	0.827	(0.002)	0.827	(0.002)	0.827	(0.002)	0.827	(0.002)	0.827	(0.002)

Notes: * p<.05, ** p<.01, *** p<.001 (one-sided tests). Estimates are based on multiple imputations (*m*=5). For variance estimates, we report standard errors (se) instead of significance-levels. Some standard errors could not be estimated, indicated by na.
N(country)=22, N(country-year)=290, N(individual)=322,044.

B. Robustness checks

Delete-one estimates

We re-estimated the three models on which we base our inference (M10, M15, and M20) with a delete-one approach. For the main effects and the interaction with left-right self-placement, the results have been presented in the paper in Figures 3 and 4. This exercise raised no concern about an over-estimation of the effects. If anything, the delete-one estimates suggest that the discourse effects are under-estimated, as they increase substantially when Israel is excluded from the sample. The interaction between left-right self-placement and the discourse variables show a similar pattern. If Israel or Spain are excluded from the estimation sample, the effect increases substantially.

We also tested model M20, from which we concluded that polarization between educational groups does not increase with any of the three country-level variables, with a delete-one approach. The results are presented below in Figure OA1. The models would suggest increasing polarization if the interaction effects are significantly positive. None of the estimated models suggest an interaction effect that is consistent over all educational groups, as has already been observed in the full model, presented in Figure 2 in the paper. While some of the re-estimated models yield significant effects for either of the two coefficients (low or medium educational levels, with high education being the reference), no model would suggest an increase or decrease of polarization across all educational levels. For example, if Hungary or Spain are excluded from the estimation sample, the models suggest an increasing polarization between high and medium educated if exclusionary discourse increases; but it suggests decreasing polarization between high and low educated. Overall, we conclude that there are no consistent interaction effects with education; that is, polarization between educational groups does neither increase nor decrease with immigrant inflow or political elite discourse.

All following robustness checks, therefore, focus on models M10 and M15, from which we concluded about the existence of effects.

Figure OA1: Cross-level interactions with education (within effects) from delete-one estimation (M20)
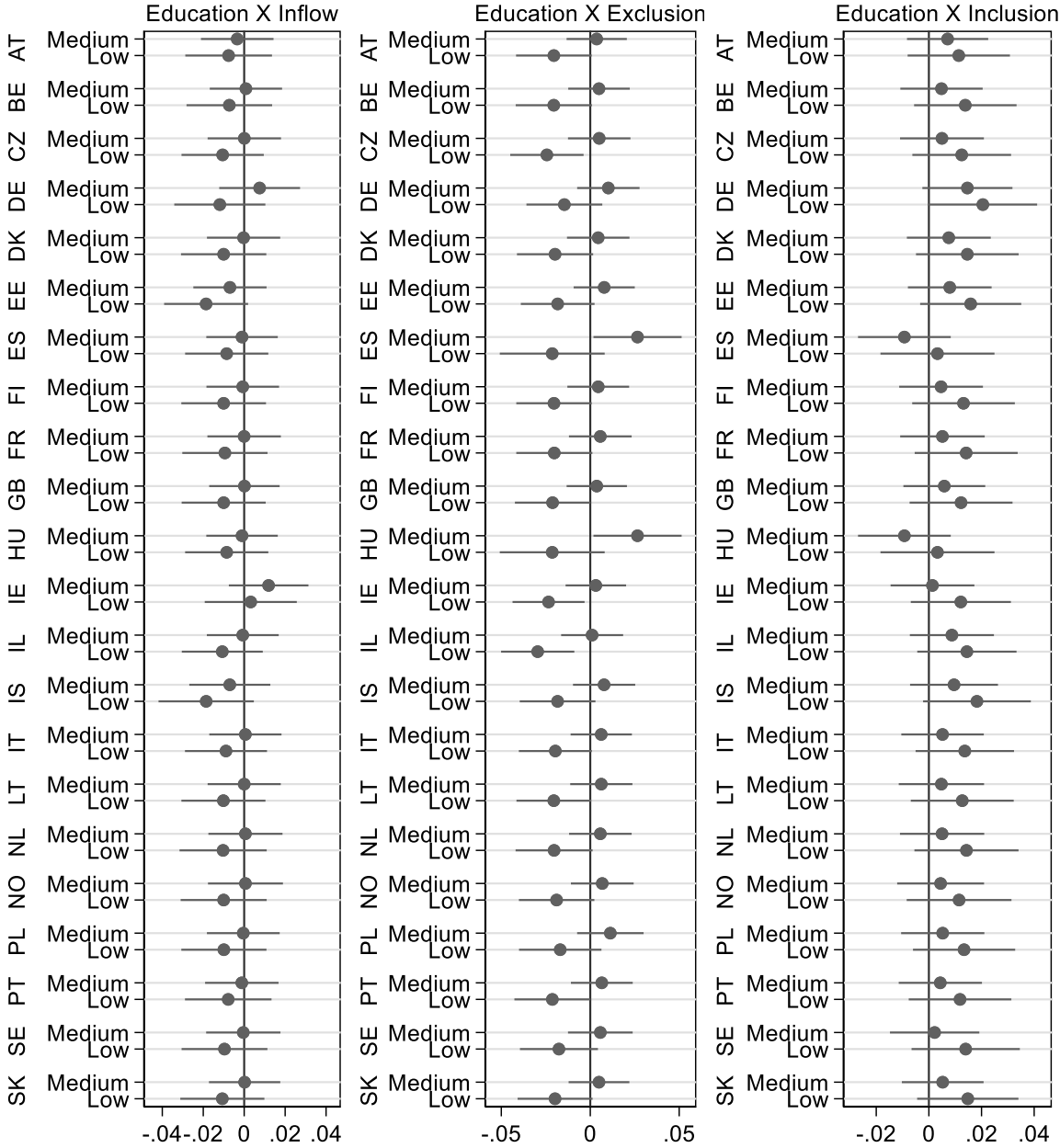
Notes: Compare Table A1 for explanation of country codes. The reference category is high education (ISCED 5-6); medium education is ISCED 3-4 and low education is ISCED 0-2. We re-estimated model M20, excluding each of the countries one at a time. The presented coefficients are the within-country cross-level interactions between inflow of foreigners (in % of population), exclusionary political discourse and inclusionary political discourse. The dots represent the point estimates and the lines represent 90% confidence intervals, which, if they do not overlap with the vertical line at values 0, indicate significance at the 5%-level with a one-sided test. Estimates are based on multiple imputations (m=3).

Alternative model specifications

We tested the discourse effects with an alternative operationalization. In our main analysis, we have used linear interpolation to impute the missing values between election years, i.e. the years for which we have data from the Comparative Manifesto Project. Other authors, who have used the same data, have employed an alternative operationalization, in which the values are kept constant over the entire governmental term and change only with the next election. Compare for example:

- Bohman, A. (2011). Articulated Antipathies: Political Influence on Anti-Immigrant Attitudes. *International Journal of Comparative Sociology* 52.
- Mitchell, J. (2021). Social trust and anti-immigrant attitudes in Europe: a longitudinal multi-level analysis. *Frontiers in sociology* 73.

We therefore re-estimated models M10 and M15 with an alternative operationalization of the political discourse variables. Here we used forward interpolation instead of the linear interpolation, i.e. values are kept constant until the next election. This results in a discrete step function instead of a continuous function (see section F of the online appendix for more information). Table OA2 below shows these alternative estimates. For an easier comparison, models M10 and M15, as presented in the paper, are also included in this table. Models M10ad and M15ad are the models with the alternative discourse variables.

We also re-estimated models M10 and M15 without the linear time trend, in order to make sure that its inclusion does not produce methodological artefacts. Models M10as and M15as are the alternative specifications without the time trend.

All models from Table OA2 support the same conclusion as models M10 and M15: With the alternative operationalization of the discourse variables, we find somewhat smaller but substantially the same within-country main effects. Both of these effects remain significant, though with a higher probability of error. The interaction of left-right and exclusionary discourse is hardly affected by the alternative operationalization. The exclusion of the time trend has only very limited consequences for the coefficients.

Table OA2: M10 and M15 with alternative operationalization of discourse and alternative model specifications

	M10		M10ad		M10as		M15		M15ad		M15as	
Year	0.004		0.006				0.005		0.006	*		
Individual-level variables												
Sex (Ref. = male)												
Female	0.033	***	0.033	***	0.033	***	0.037	***	0.037	***	0.037	***
Age	0.076	***	0.076	***	0.076	***	0.069	***	0.069	***	0.069	***
Age^2	-0.020	***	-0.020	***	-0.020	***	-0.020	***	-0.020	***	-0.020	***
Migration background (Ref. = no)												
Yes	-0.310	***	-0.310	***	-0.310	***	-0.302	***	-0.302	***	-0.302	***
Education (Ref. = ISCED 5-6)												
ISCED 4-5	0.390	***	0.390	***	0.390	***	0.378	***	0.378	***	0.378	***
ISCED 0-2	0.574	***	0.574	***	0.574	***	0.564	***	0.564	***	0.564	***
Left-right	0.085	***	0.085	***	0.085	***	0.087	***	0.087	***	0.087	***
Context-level variables												
Inflow foreigners [BE]	-0.124	*	-0.127	*	-0.122	*	-0.327	***	-0.283	***	-0.324	***
Inflow foreigners [WE]	-0.059	***	-0.056	***	-0.059	***	-0.059	***	-0.053	***	-0.061	***
Exclusionary Discourse [BE]	0.070		0.085		0.068		0.242	***	0.225	**	0.239	**
Exclusionary Discourse [WE]	0.056	***	0.032	*	0.060	***	0.051	***	0.032	*	0.055	***
Inclusionary Discourse [BE]	-0.003		-0.031		-0.002		-0.067		-0.054		-0.065	
Inclusionary Discourse [WE]	-0.041	***	-0.031	**	-0.039	**	-0.040	***	-0.031	**	-0.038	**
GDP/c [BE]	-0.064		-0.051		-0.067		0.219	**	0.170	*	0.216	**
GDP/c [WE]	-0.072	**	-0.075	**	-0.042	**	-0.075	**	-0.073	**	-0.038	**
Unemployment rate [BE]	-0.040		-0.040		-0.041							
Unemployment rate [WE]	0.002		-0.004		0.006							
Left-right [BE]							-1.574	***	-1.365	***	-1.564	***
Cross-level interactions												
Left-right X Inflow foreigners [BE]							0.056	**	0.061	**	0.056	**
Left-right X Inflow foreigners [WE]							0.002		0.008		0.002	
Left-right X Exclusionary Discourse [BE]							0.031		0.035		0.031	
Left-right X Exclusionary Discourse [WE]							0.036	***	0.033	***	0.036	***
Left-right X Inclusionary Discourse [BE]							-0.021		-0.037		-0.021	
Left-right X Inclusionary Discourse [WE]							0.004		0.005		0.004	
Constant	-0.325	***	-0.339	***	-0.287	***	-0.305	***	-0.313	***	-0.259	***

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Continuation of Table OA2

Variance components	Var	(se)	Var	(se)	Var	(se)	Var	(se)	Var	(se)	Var	(se)
Country level (between country)												
Var(Constant)	0.051	(0.016)	0.051	(0.016)	0.051	(0.016)	0.051	(0.020)	0.046	(0.017)	0.052	(0.020)
Var(Left-right)							0.011	(0.003)	0.011	(0.003)	0.011	(0.003)
Cov(Constant, Left-right)							-0.015	(0.008)	-0.011	(0.007)	-0.015	(0.008)
Country-year level (within country)												
Var(Constant)	0.015	(0.002)	0.016	(0.002)	0.015	(0.002)	0.015	(0.001)	0.016	(0.002)	0.015	(0.001)
Var(Left-right)							0.002	(0.000)	0.002	(0.000)	0.002	(0.000)
Cov(Constant, Left-right)							-0.001	(0.000)	-0.000	(0.000)	-0.001	(0.000)
Var(Residual)	0.831	(0.002)	0.831	(0.002)	0.831	(0.002)	0.815	(0.002)	0.815	(0.002)	0.815	(0.002)

Notes: * $p<.05$, ** $p<.01$, *** $p<.001$ (one-sided tests). Estimates are based on multiple imputations (m=5). M10 and M15 are models presented in the paper, which are shown here for easier comparison.). M10ad and M15ad use alternative discourse variables; M10as and M15as are models with alternative specifications, i.e. excluding the linear time trend. For variance estimates, we report standard errors (se) instead of significance-levels.

Two-stage models

We ran separate regressions of anti-immigrant sentiments in every country-year. This would be 290 individual-level regressions; however, we actually could not estimate 290 but only 289 single regressions because in Norway 2017, the number of observations was not sufficient to identify the model.[1] These individual-level models included left-right self-placement, educational levels, age, age squared, sex, and migration background, which are the same variables that have been included in the multilevel models. However, the two-stage approach allows much more flexibility in the estimated coefficients of individual-level variables. The multilevel model constraints any individual-level variable that has no random slope to have equal effects across higher-level clusters. Including random slopes for all variables is typically not possible because the available degrees of freedom are not sufficient to estimate that many random parameters and their covariances. Even with a random slope, the multilevel model does not estimate the individual-level slopes freely, as it imposes a distributional assumption on the random coefficients. This prior shrinks the estimated (random) coefficients towards a normal distribution.

The two-stage approach does not make such assumptions, as it estimates separate regressions for each cluster (the 289 country-years in our case). This allows to estimate the coefficients of all individual-level variables without any equality constraints or shrinkage towards the normal distribution. In this first step, we have used multiple imputation to estimate the constant and the slope of left-right self-placement. In the second step, we first regressed the constant from each of the 289 individual-level models on the macro-level variables of interest (+ GDP/c as a control), using a standard panel fixed effects model.[2] Since this model identifies effects from within-unit variation, it is the equivalent estimator to our within-country effects of actual inflow, exclusionary discourse, and inclusionary discourse. Second, we regressed the slope of the left-right self-placement on these variables, using a panel fixed effects models, as well.

Table OA3: Second-stage FE regressions of intercept and left-right slope

	Constant/intercept		Slope of Left-right	
Inflow foreigners	-0.069	***	0.008	
Exclusionary Discourse	0.050	**	0.035	**
Inclusionary Discourse	-0.041	**	0.003	
GDP/c	-0.057	***		
Constant	-0.022	**	0.095	***
Statistics				
N(country)	22		22	
N(country-year)	289		289	

Notes: * p<.05, ** p<.01, *** p<.001 (one-sided tests). Panel fixed effects models; this is, within-country estimates derived by unit-fixed effects. First-stage estimates of constant and slope are based on multiple imputations (*m*=5) but the second-stage regression is not.

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[1] Remember, that we define time by the interview year and not the ESS round. In Norway round eight was fielded in 2016 and only one single interview was conducted in 2017.

[2] Actually, we predicted the average response from each model. We have z-standardized our variables, which means that the constant equals the average prediction in a regression model with the full sample. However, in a single regression for a given country-year combination, the constant may refer to a different combination of values, because the country-year specific average deviates from the overall average. In order to estimate a constant (intercept) with the same meaning in all country-years, we predicted the average response for the distribution of independent variables in the sample of the regression. In other words, we adjusted the estimated constant for differences in the distribution of individual-level variables.

Table OA3 shows the results from these two second-stage regressions. Overall, this analysis confirms the multilevel models. Actual inflow and inclusionary discourse have a significant negative effect on anti-immigrant sentiments, while exclusionary discourse has a significant positive effect. As for the interaction effects, i.e. the effects on the slope of left-right, we also confirm the results from the multilevel model: Exclusionary discourse significantly increases polarization between left and right. Actual inflow and inclusionary discourse have positive but very small and insignificant effects.

We have also done graphical inspections of the relationships at the country-level, Figure OA2 shows scatter plots with the estimated intercepts (constants) on the y-axis of the upper panel and the estimated slope of left-right self-placement on the y-axis of the lower panel. The x-axis are the within-country components of the three macro-level variables of interest. In other words, these plots show the within-country relationships of actual inflow, exclusionary discourse and inclusionary discourse with the intercepts and the slope of left-right self-placement. The latter corresponds to the cross-level interactions, the former to the main effects.

Each subgraph shows three regression lines, which we use to indicate how sensitive our estimates are to the extreme values. The longest regression line is based on all observations, the next shortest is based on observations in the range -2 to 2 (two standard deviations from mean) and the shortest is based on observations within the range -1 to 1 (within one standard deviation from mean). As all regression lines within one subgraph have very similar slopes, we conclude that the extreme values do not influence our estimates strongly. As for the direction of the relationships, we see that the relationship between anti-immigrant sentiment (i.e. the constant) and exclusionary discourse in Figure OA2 is actually negative, in contrast to the estimates presented in the paper and in Table OA3. A closer investigation shows that the negative effect of exclusionary discourse on anti-immigrant sentiments shows up only after controlling for inclusionary discourse and actual inflows in the two stage model. The negative within effects of actual inflow and inclusionary discourse, on the other hand, appear very solid also in this bivariate picture.

As for the slope of left-right, we see that the interaction with exclusionary discourse does also appear in this bivariate model. It is also not dependent on the extreme values. Overall, we see this as a strong confirmation of the robustness of the interaction effect between left-right self-placement and exclusionary discourse. As in the models presented in the paper, we also see some support that inclusionary discourse and actual inflow also have polarizing effects, at least they have a positive bi-variate relationship with the slope of political ideology.

Figure OA2: Bivariate two-stage regressions
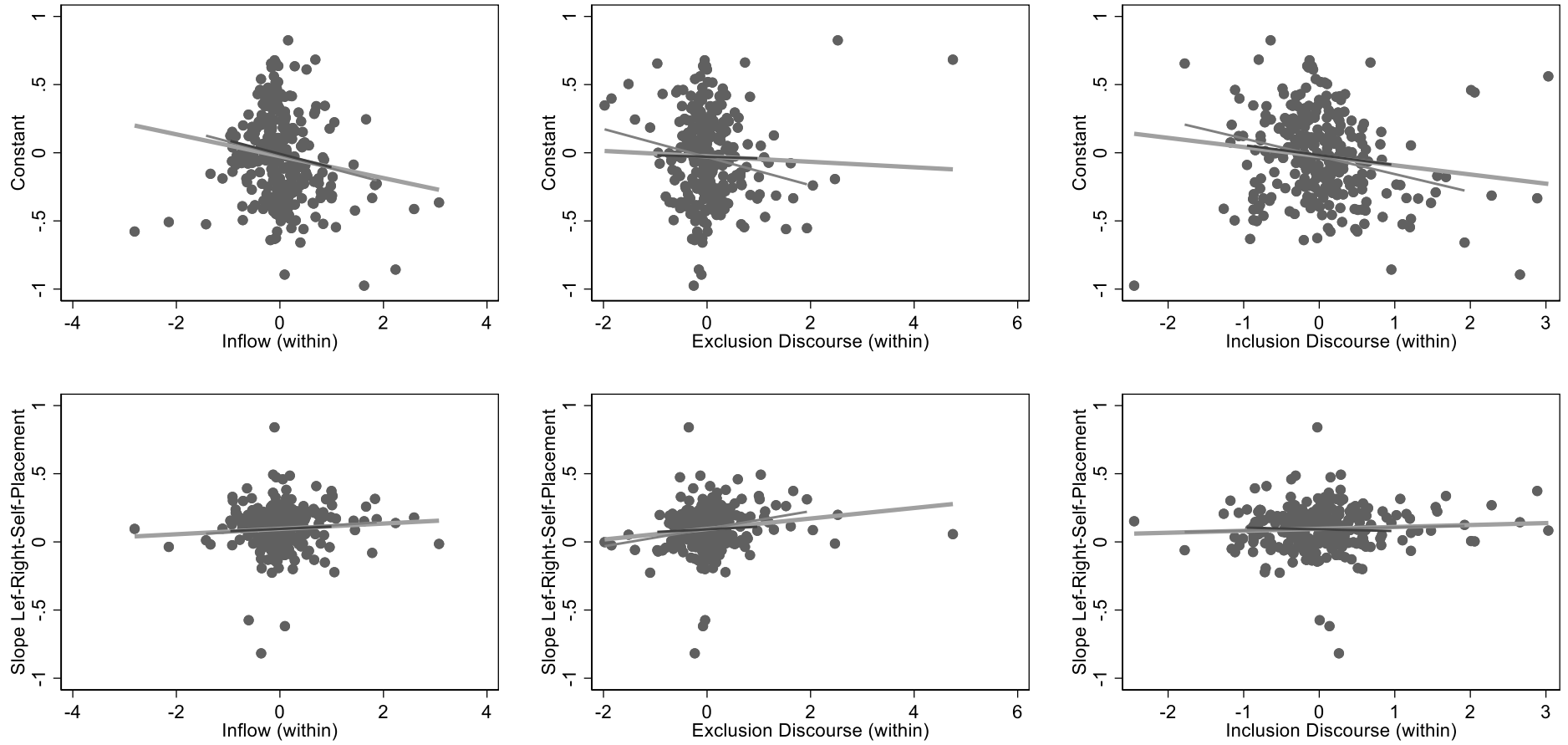
C. Alternative specification with Country Fixed Effects

We estimated the models M10 and M15 with a country Fixed Effects specification, as proposed in Giesselmann and Schmidt-Catran (2019). In this model the between country-variation is partialed out via the inclusion of unit-dummies for each country (M10) and the inclusion of interactions between these country dummies and the individual-level variable of interest (M15). The latter controls for the between-country component in the cross-level interaction term. Additionally, we estimated extended FE models in which we allowed the time trend to vary between countries. This is, instead of a global time trend, we assume that every country has a separate trend. With this flexible model we aim to avoid methodological artefacts due to the modelling of time (see Auspurg et al. 2019 for a demonstration of how a more flexible treatment of time affects estimates).

Figure OA3 shows the country-level main effects from model M10 from the RE specification presented in the paper and from the two models with a country Fixed Effects specification. Obviously, all specifications provide very similar results.

Figure OA3: Country-level within effects from Model M10 with Random and Fixed Effects
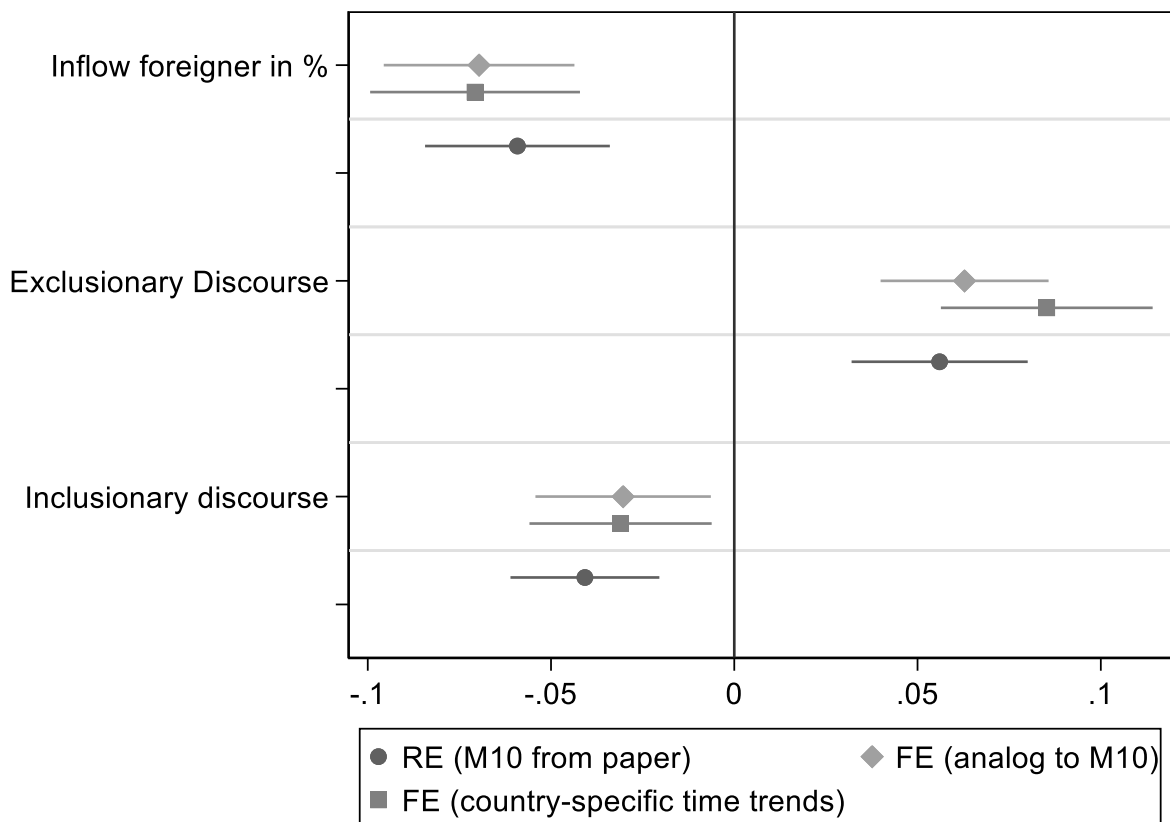
Figure OA4 compares the within-country cross-level interactions from model M15 from the RE and the FE specifications. The graphs on the left hand side are identical with the graphs in Figure 1 (lower panel). The middle column shows the estimates from a Fixed Effects model that is analog to M15 and the graphics on the right hand side show the results from a Fixed Effects specification with additional

country-specific time trends. All specifications support the same conclusion: Exclusionary discourse increases polarization between left and right significantly.

Figure OA4: Within-country conditional effect of left-right from Model M15 with Random and Fixed Effects
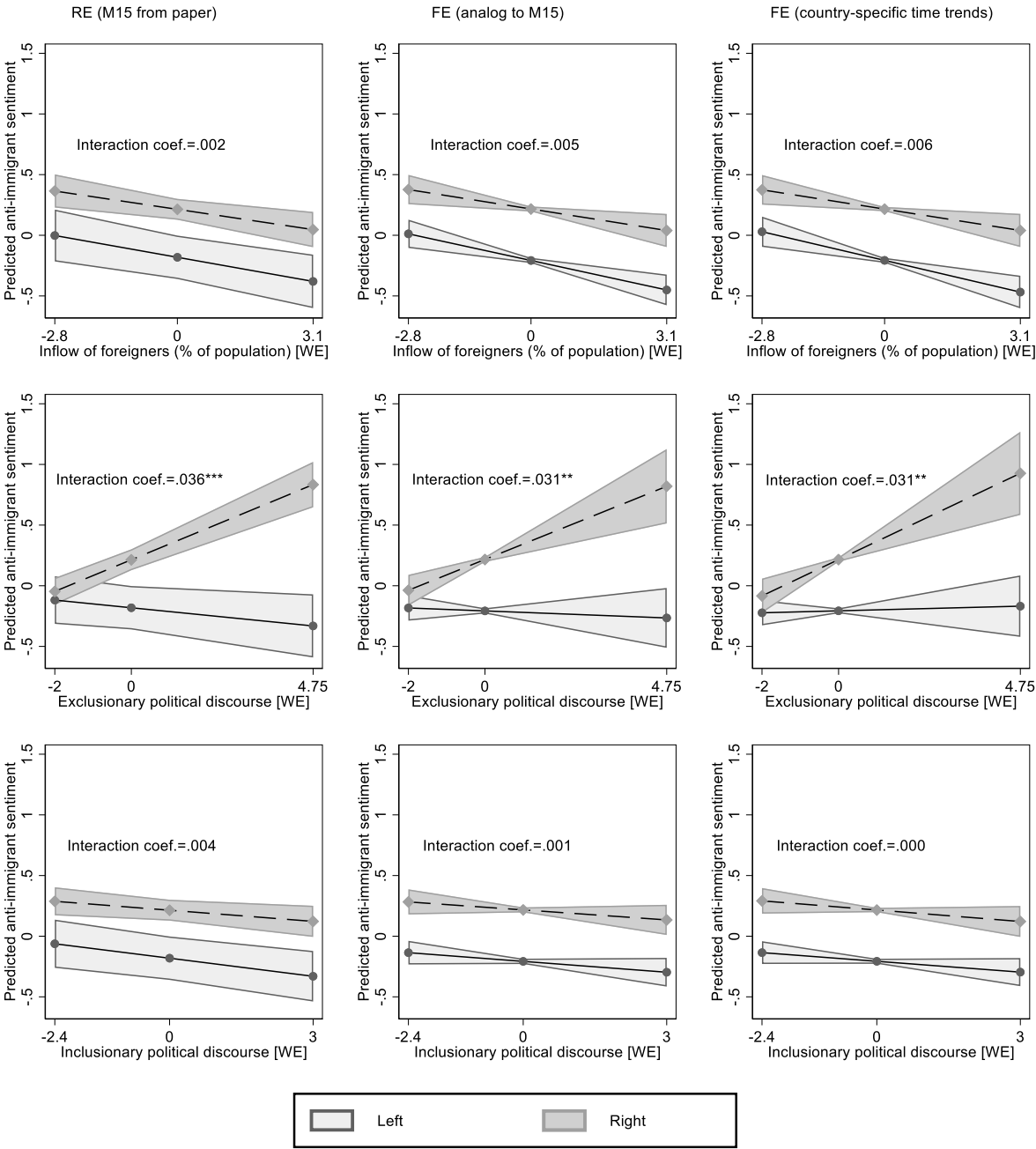
Notes: * p<.05, ** p<.01, *** p<.001, one-sided tests (significances relate to the estimated within effect of the cross-level interaction itself, while the 95%-confidence intervals of the conditional effect are based on additional uncertainty from the complete regression function).

Literature:

- Auspurg, K., Brüderl, J., & Wöhler, T. (2019). Does immigration reduce the support for welfare spending? A cautionary tale on spatial panel data analysis. American Sociological Review, 84(4), 754-763.

D. Description of multiple imputation of individual-level observations

Table OA4: Percentage of missing data by individual-level variables

Variable	Missing data in %
Anti-immigrant sentiment	1.38%
Sex	0.08%
Age	0.42%
Migration background	0.57%
Education	0.63%
Left-right self-placement	11.55%

Note: Missing data calculated after exclusion of countries who are not part of the sample. N in this data set is 331,577.

Table OA4 shows the percentage of missing values for each of the individual-level variables from our analysis sample. Except for the left-right self-placement, all individual-level variables from the ESS have only small shares of missing values. Following the recommendation of Schafer (1999), we assume that variables with missing data of less than 5% can be ignored. The left-right self-placement, however, has more than 10% of missing values. To tackle this problem, we used multiple imputation for the left-right self-placement.

We first excluded all observations with missing data on any of the other individual-level variables. This reduced the sample size from 331,577 to 322,044 observations (by a total of 2.88%). We then estimated the left-right self-placement using linear regression with all other individual-level variables and the dependent variable as predictors (using Stata's `mi impute` command). In total, we imputed 35,029 missing values in the left-right variable. To account for the multilevel structure of the data, we estimated the imputation model separately for each country-year cluster. We imputed m=5 values for each missing observation on the left-right variable. All presented estimates are based on the combination of estimation results based on Rubin's rules (1987). Our assumption here is that the data is missing at random.

Literature:

Rubin, D. B. (1987). Multiple Imputation for Nonresponse in Surveys. New York: Wiley.

Schafer, J. L. (1999). Multiple imputation: a primer. Statistical methods in medical research, 8(1), 3-15.

E. Replication package

All syntax files and data are available in a replication package at www.schmidt-catran.de/polarization.html.

F. Documentation of macro-level data

Definition and sources of macro-level variables

- *Migrant inflow as percent of total population*: We calculated this as the total inflow of foreigners divided by the total population. The absolute inflow was taken from the

International Migration Data Base of the OECD (Data extracted on 21 May 2021 21:14 UTC (GMT) from OECD.Stat); the absolute population was taken from the Historical Population Dataset of the OECD (Data extracted on 23 May 2021 21:26 UTC (GMT) from OECD.Stat).

- *Exclusionary political discourse*: We draw upon the data of the Manifesto Project Database to measure political elite discourses (Werner, Lacewell, and Volkens 2015), which is based on quantitative content analyses of party manifestos before elections. The Manifesto Project Database data report the share of each party's manifesto that is devoted to pre-defined topics (Klingemann et al. 2006). The share could theoretically range from 0 (issue not mentioned) to 100 (nothing else mentioned). We first took the values of national way of life positive (per601) and multiculturalism negative (per608)] for each party in a national election. To account for the fact that statements put forward by larger parties are more likely to have an effect on public opinion, we weight these values with a party's actual vote share. Based on the values for each party on each issue, we generated the country-means and sum up these country means (version 2020b, downloaded on 24 May 2021 10:39 UTC (GMT) from website).
- *Inclusionary political discourse*: The same procedure was used for inclusionary discourse drawing upon the items national way of life negative (per602) and multiculturalism positive (per607).
- *Gross domestic product per capita (in 1,000 US-dollar):* GDP per capita was derived from the OECD's Gross Domestic Product Dataset and divided by 1,000. GDP per capita is measured with the expenditure approach, with current prices and current PPPs (Data extracted on 21 May 2021 22:08 UTC (GMT) from OECD.Stat).
- *Unemployment rate as percent of labor force:* We took this data from the Annual Labor Force Summary Tables from the OECD (Data extracted on 21 May 2021 21:28 UTC (GMT) from OECD.Stat).

Description of imputation at the country level

GDP per capita and the unemployment rate did not have missing values for any of the countries and years in our analysis sample. The inflow of foreigners (in % of the population) had a few missing values (7.2%). The discourse variables naturally show a much higher percentage of missing values, as elections typically take place every four years. The raw data of these variables therefore have missing values in about 3 out of 4 years (74%).

Any missing data in the macro-level variables was imputed by linear interpolation and extrapolation. The latter was necessary to impute values after the last or before the first valid observation. However, we started with a country-level data set that begins already in 2000, so that extrapolation could be avoided for observations at the beginning of our analysis period (2002-2019). We used the Stata package `mipolate` by Nick Cox, with linear interpolation and the extrapolate option. As an alternative operationalization we used forward interpolation, meaning that every valid value is copied into the following empty cells until the next valid value is observed. This results in a discrete step function, rather than a continuous function. See section B of the online appendix for a test of these alternative operationalizations.

For full transparency, Table OA5 shows the complete macro-level data before and after imputation. The rows highlighted in grey are data that is part of the analysis sample. The white rows have been used to calculate the interpolated values but are not part of the data for the analysis. Our replication package also contains all data preparation from the raw data to the final analysis.

Complete macro-level data before and after imputation

Table OA5: Macro-data – before and after imputation

Country	Year	Inflow foreign (abs.)	Pop. size (abs.)	Inflow foreign. in %	Inflow foreig. in % (inter.)	Excl. Disc.	Excl. disc. (inter. linear)	Excl. disc. (inter. step)	Incl. disc.	Incl. disc. (inter. linear)	Incl. Disc. (inter. step)	GDP per Capita (in 1,000$)	GDP per Capita (inter.)	Unemp. rate in %	Unemp. rate in% (inter.)
AT	2000		8011566		0.794		-16.034			24.847		29.389	29.389	3.533	3.533
AT	2001	74786	8042293	0.930	0.930		5.139			24.062		29.716	29.716	3.591	3.591
AT	2002	86144	8082121	1.066	1.066	26.312	26.312	26.312	23.277	23.277	23.277	31.178	31.178	3.952	3.952
AT	2003	93341	8118245	1.150	1.150		47.485	26.312		22.492	23.277	32.124	32.124	4.286	4.286
AT	2004	104246	8169441	1.276	1.276		68.658	26.312		21.707	23.277	33.756	33.756	5.490	5.490
AT	2005	97995	8225278	1.191	1.191		89.831	26.312		20.922	23.277	35.025	35.025	5.628	5.628
AT	2006	82899	8267948	1.003	1.003	111.004	111.004	111.004	20.137	20.137	20.137	37.615	37.615	5.247	5.247
AT	2007	91546	8295189	1.104	1.104		93.379	111.004		19.620	20.137	39.384	39.384	4.859	4.859
AT	2008	94368	8321541	1.134	1.134	75.755	75.755	75.755	19.102	19.102	19.102	41.316	41.316	4.129	4.129
AT	2009	91660	8341483	1.099	1.099		76.287	75.755		19.208	19.102	40.957	40.957	5.299	5.299
AT	2010	96896	8361069	1.159	1.159		76.820	75.755		19.314	19.102	42.053	42.053	4.822	4.822
AT	2011	109921	8388534	1.310	1.310		77.352	75.755		19.420	19.102	44.469	44.469	4.567	4.567
AT	2012	125605	8426311	1.491	1.491		77.884	75.755		19.525	19.102	46.478	46.478	4.863	4.863
AT	2013	135228	8477230	1.595	1.595	78.416	78.416	78.416	19.631	19.631	19.631	47.937	47.937	5.336	5.336
AT	2014	154260	8543932	1.805	1.805		82.472	78.416		16.101	19.631	48.814	48.814	5.621	5.621
AT	2015	198658	8629519	2.302	2.302		86.527	78.416		12.570	19.631	49.942	49.942	5.723	5.723
AT	2016	158746	8739806	1.816	1.816		90.583	78.416		9.040	19.631	52.665	52.665	6.014	6.014
AT	2017	139329	8795073	1.584	1.584	94.639	94.639	94.639	5.509	5.509	5.509	54.185	54.185	5.501	5.501
AT	2018	131724	8837707	1.490	1.490		114.273	94.639		12.581	5.509	57.069	57.069	4.849	4.849
AT	2019	134966			1.397	133.906	133.906	133.906	19.652	19.652	19.652	58.665	58.665	4.487	4.487
BE	2000		10251247		0.603		9.526			0.117		27.797	27.797	7.010	7.010
BE	2001	65974	10286571	0.641	0.641		11.177			1.530		28.799	28.799	6.608	6.608
BE	2002	70230	10332783	0.680	0.680		12.829			2.943		30.282	30.282	7.511	7.511
BE	2003	68800	10376130	0.663	0.663	14.480	14.480	14.480	4.356	4.356	4.356	30.901	30.901	8.172	8.172
BE	2004	72446	10421133	0.695	0.695		16.132	14.480		5.769	4.356	32.037	32.037	8.387	8.387
BE	2005	77411	10478617	0.739	0.739		17.784	14.480		7.183	4.356	33.177	33.177	8.439	8.439
BE	2006	83433	10547956	0.791	0.791		19.435	14.480		8.596	4.356	35.212	35.212	8.249	8.249
BE	2007	93387	10625701	0.879	0.879	21.087	21.087	21.087	10.009	10.009	10.009	36.746	36.746	7.459	7.459
BE	2008	106012	10709976	0.990	0.990		19.598	21.087		10.217	10.009	37.883	37.883	6.971	6.971
BE	2009	102714	10796498	0.951	0.951		18.109	21.087		10.424	10.009	37.779	37.779	7.906	7.906
BE	2010	113582	10895589	1.042	1.042	16.621	16.621	16.621	10.632	10.632	10.632	39.869	39.869	8.293	8.293
BE	2011	117948	10993616	1.073	1.073		22.486	16.621		10.928	10.632	40.943	40.943	7.140	7.140
BE	2012	128948	11067748	1.165	1.165		28.351	16.621		11.224	10.632	42.290	42.290	7.538	7.538
BE	2013	117595	11125033	1.057	1.057		34.216	16.621		11.519	10.632	43.673	43.673	8.425	8.425
BE	2014	106345	11179778	0.951	0.951	40.081	40.081	40.081	11.815	11.815	11.815	44.930	44.930	8.523	8.523
BE	2015	128762	11238474	1.146	1.146		43.481	40.081		11.254	11.815	46.202	46.202	8.481	8.481
BE	2016	103187	11295003	0.914	0.914		46.881	40.081		10.692	11.815	48.599	48.599	7.833	7.833
BE	2017	109515	11349081	0.965	0.965		50.281	40.081		10.131	11.815	50.443	50.443	7.089	7.089

Country	Year	Inflow foreign (abs.)	Pop. size (abs.)	Inflow foreign. in %	Inflow foreig. in % (inter.)	Excl. Disc.	Excl. disc. (inter. linear)	Excl. disc. (inter. step)	Incl. disc.	Incl. disc. (inter. linear)	Incl. Disc. (inter. step)	GDP per Capita (in 1,000$)	GDP per Capita (inter.)	Unemp. rate in %	Unemp. rate in% (inter.)
BE	2018	116768	11403740	1.024	1.024		53.681	40.081		9.569	11.815	52.663	52.663	5.950	5.950
BE	2019				1.083	57.081	57.081	57.081	9.008	9.008	9.008	54.709	54.709	5.361	5.361
CZ	2000		10272503		-0.206		82.819			3.895		16.215	16.215	8.824	8.824
CZ	2001	11323	10224192	0.111	0.111		69.789			4.173		17.616	17.616	8.165	8.165
CZ	2002	43648	10200774	0.428	0.428	56.760	56.760	56.760	4.451	4.451	4.451	18.246	18.246	7.314	7.314
CZ	2003	57438	10201651	0.563	0.563		43.730	56.760		4.729	4.451	19.503	19.503	7.812	7.812
CZ	2004	50804	10206923	0.498	0.498		30.701	56.760		5.007	4.451	20.895	20.895	8.322	8.322
CZ	2005	58576	10234092	0.572	0.572		17.671	56.760		5.285	4.451	22.046	22.046	7.928	7.928
CZ	2006	66125	10266646	0.644	0.644	4.641	4.641	4.641	5.563	5.563	5.563	23.827	23.827	7.148	7.148
CZ	2007	102511	10322689	0.993	0.993		5.159	4.641		4.730	5.563	26.190	26.190	5.322	5.322
CZ	2008	76151	10429692	0.730	0.730		5.676	4.641		3.896	5.563	27.854	27.854	4.392	4.392
CZ	2009	38199	10491492	0.364	0.364		6.193	4.641		3.063	5.563	27.656	27.656	6.659	6.659
CZ	2010	28046	10517247	0.267	0.267	6.710	6.710	6.710	2.230	2.230	2.230	27.790	27.790	7.280	7.280
CZ	2011	20673	10496672	0.197	0.197		9.797	6.710		1.540	2.230	29.000	29.000	6.711	6.711
CZ	2012	28607	10509286	0.272	0.272		12.885	6.710		0.851	2.230	29.259	29.259	6.978	6.978
CZ	2013	27843	10510719	0.265	0.265	15.972	15.972	15.972	0.162	0.162	0.162	30.829	30.829	6.954	6.954
CZ	2014	38490	10524783	0.366	0.366		16.641	15.972		0.329	0.162	32.504	32.504	6.109	6.109
CZ	2015	31589	10542942	0.300	0.300		17.310	15.972		0.496	0.162	33.909	33.909	5.046	5.046
CZ	2016	34808	10565284	0.329	0.329		17.979	15.972		0.662	0.162	36.101	36.101	3.952	3.952
CZ	2017	43527	10589526	0.411	0.411	18.648	18.648	18.648	0.829	0.829	0.829	38.843	38.843	2.891	2.891
CZ	2018	55872	10626430	0.526	0.526		19.317	18.648		0.995	0.829	41.148	41.148	2.244	2.244
CZ	2019	63340			0.641		19.986	18.648		1.162	0.829	43.016	43.016	2.014	2.014
DE	2000		82211501		0.866		89.013			16.749		27.463	27.463	7.756	7.756
DE	2001	685259	82349926	0.832	0.832		77.611			15.566		28.671	28.671	7.836	7.836
DE	2002	658341	82488493	0.798	0.798	66.209	66.209	66.209	14.384	14.384	14.384	29.504	29.504	8.654	8.654
DE	2003	601759	82534175	0.729	0.729		54.806	66.209		13.201	14.384	30.238	30.238	9.637	9.637
DE	2004	602182	82516268	0.730	0.730		43.404	66.209		12.018	14.384	31.715	31.715	9.794	9.794
DE	2005	579301	82469421	0.702	0.702	32.002	32.002	32.002	10.836	10.836	10.836	32.237	32.237	11.168	11.168
DE	2006	558467	82376447	0.678	0.678		28.433	32.002		15.142	10.836	34.620	34.620	10.253	10.253
DE	2007	574752	82266373	0.699	0.699		24.865	32.002		19.449	10.836	36.814	36.814	8.662	8.662
DE	2008	573815	82110097	0.699	0.699		21.297	32.002		23.756	10.836	38.432	38.432	7.528	7.528
DE	2009	606314	81902308	0.740	0.740	17.728	17.728	17.728	28.063	28.063	28.063	37.493	37.493	7.743	7.743
DE	2010	683529	81776936	0.836	0.836		21.525	17.728		24.930	28.063	39.707	39.707	6.968	6.968
DE	2011	841695	80274981	1.049	1.049		25.322	17.728		21.798	28.063	42.542	42.542	5.827	5.827
DE	2012	965908	80425826	1.201	1.201		29.119	17.728		18.666	28.063	43.360	43.360	5.381	5.381
DE	2013	1108068	80645605	1.374	1.374	32.916	32.916	32.916	15.533	15.533	15.533	44.994	44.994	5.232	5.232
DE	2014	1342529	80982495	1.658	1.658		47.590	32.916		22.045	15.533	47.011	47.011	4.982	4.982
DE	2015	2016241	81686608	2.468	2.468		62.265	32.916		28.557	15.533	47.610	47.610	4.625	4.625
DE	2016	1719075	82348669	2.088	2.088		76.940	32.916		35.068	15.533	50.579	50.579	4.123	4.123
DE	2017	1384018	82656997	1.674	1.674	91.614	91.614	91.614	41.580	41.580	41.580	52.953	52.953	3.747	3.747

Country	Year	Inflow foreign (abs.)	Pop. size (abs.)	Inflow foreign. in %	Inflow foreig. in % (inter.)	Excl. Disc.	Excl. disc. (inter. linear)	Excl. disc. (inter. step)	Incl. disc.	Incl. disc. (inter. linear)	Incl. Disc. (inter. step)	GDP per Capita (in 1,000$)	GDP per Capita (inter.)	Unemp. rate in %	Unemp. rate in% (inter.)
DE	2018	1383580	82914191	1.669	1.669		106.289	91.614		48.092	41.580	54.955	54.955	3.384	3.384
DE	2019				1.663		120.964	91.614		54.604	41.580	55.891	55.891	3.137	3.137
DK	2000		5337344		0.521		140.216			38.866		28.679	28.679	4.626	4.626
DK	2001	24642	5355082	0.460	0.460	132.896	132.896	132.896	33.719	33.719	33.719	29.460	29.460	4.606	4.606
DK	2002	21485	5374255	0.400	0.400		125.577	132.896		28.573	33.719	30.640	30.640	4.587	4.587
DK	2003	18385	5387174	0.341	0.341		118.257	132.896		23.426	33.719	30.792	30.792	5.406	5.406
DK	2004	18706	5401177	0.346	0.346		110.938	132.896		18.279	33.719	32.921	32.921	5.508	5.508
DK	2005	20146	5415978	0.372	0.372	103.618	103.618	103.618	13.133	13.133	13.133	34.153	34.153	4.831	4.831
DK	2006	23979	5434567	0.441	0.441		99.855	103.618		15.610	13.133	37.286	37.286	3.899	3.899
DK	2007	31430	5457415	0.576	0.576	96.091	96.091	96.091	18.086	18.086	18.086	38.969	38.969	3.799	3.799
DK	2008	37018	5489022	0.674	0.674		91.584	96.091		20.646	18.086	41.283	41.283	3.684	3.684
DK	2009	31957	5519441	0.579	0.579		87.078	96.091		23.206	18.086	40.362	40.362	6.412	6.412
DK	2010	33442	5543819	0.603	0.603		82.571	96.091		25.766	18.086	43.041	43.041	7.748	7.748
DK	2011	34572	5566856	0.621	0.621	78.065	78.065	78.065	28.326	28.326	28.326	44.408	44.408	7.770	7.770
DK	2012	35490	5587085	0.635	0.635		98.304	78.065		25.908	28.326	44.809	44.809	7.798	7.798
DK	2013	41342	5608784	0.737	0.737		118.543	78.065		23.489	28.326	46.743	46.743	7.382	7.382
DK	2014	49039	5639719	0.870	0.870		138.782	78.065		21.071	28.326	47.905	47.905	6.928	6.928
DK	2015	58695	5678348	1.034	1.034	159.022	159.022	159.022	18.652	18.652	18.652	49.058	49.058	6.278	6.278
DK	2016	54641	5724456	0.955	0.955		145.398	159.022		18.547	18.652	51.967	51.967	5.989	5.989
DK	2017	49046	5760694	0.851	0.851		131.773	159.022		18.442	18.652	55.356	55.356	5.833	5.833
DK	2018	45267	5789957	0.782	0.782		118.149	159.022		18.337	18.652	57.459	57.459	5.133	5.133
DK	2019				0.712	104.525	104.525	104.525	18.232	18.232	18.232	60.308	60.308	5.018	5.018
EE	2000		1396985		-0.011		14.468			-13.094		9.409	9.409	14.624	14.624
EE	2001		1388115		0.006		30.258			-8.729		10.292	10.292	13.012	13.012
EE	2002		1379350		0.022		46.048			-4.365		11.635	11.635	11.219	11.219
EE	2003		1370720		0.039	61.838	61.838	61.838	0.000	0.000	0.000	13.081	13.081	10.351	10.351
EE	2004	759	1362550	0.056	0.056		77.628	61.838		4.365	0.000	14.483	14.483	10.139	10.139
EE	2005	981	1354775	0.072	0.072		93.418	61.838		8.729	0.000	16.574	16.574	8.033	8.033
EE	2006	1488	1346810	0.110	0.110		109.208	61.838		13.094	0.000	19.252	19.252	5.914	5.914
EE	2007	1952	1340680	0.146	0.146	124.998	124.998	124.998	17.458	17.458	17.458	22.128	22.128	4.592	4.592
EE	2008	1929	1337090	0.144	0.144		114.241	124.998		19.221	17.458	22.808	22.808	5.435	5.435
EE	2009	2229	1334515	0.167	0.167		103.485	124.998		20.983	17.458	20.591	20.591	13.547	13.547
EE	2010	1199	1331475	0.090	0.090		92.729	124.998		22.746	17.458	21.785	21.785	16.703	16.703
EE	2011	1675	1327439	0.126	0.126	81.972	81.972	81.972	24.508	24.508	24.508	24.739	24.739	12.333	12.333
EE	2012	1107	1322696	0.084	0.084		85.953	81.972		22.521	24.508	26.141	26.141	10.024	10.024
EE	2013	1633	1317997	0.124	0.124		89.934	81.972		20.533	24.508	27.596	27.596	8.632	8.632
EE	2014	1347	1314545	0.102	0.102		93.916	81.972		18.546	24.508	29.108	29.108	7.356	7.356
EE	2015	7370	1314608	0.561	0.561	97.897	97.897	97.897	16.559	16.559	16.559	29.436	29.436	6.192	6.192
EE	2016	7693	1315790	0.585	0.585		101.878	97.897		14.571	16.559	31.574	31.574	6.753	6.753
EE	2017	9067	1317384	0.688	0.688		105.859	97.897		12.584	16.559	33.902	33.902	5.763	5.763

Country	Year	Inflow foreign (abs.)	Pop. size (abs.)	Inflow foreign. in %	Inflow foreig. in % (inter.)	Excl. Disc.	Excl. disc. (inter. linear)	Excl. disc. (inter. step)	Incl. disc.	Incl. disc. (inter. linear)	Incl. Disc. (inter. step)	GDP per Capita (in 1,000$)	GDP per Capita (inter.)	Unemp. rate in %	Unemp. rate in% (inter.)
EE	2018	9711	1321977	0.735	0.735		109.840	97.897		10.597	16.559	36.406	36.406	5.374	5.374
EE	2019	10994			0.781		113.821	97.897		8.609	16.559	38.881	38.881	4.449	4.449
ES	2000		40554387		0.864	1.098	1.098	1.098	8.820	8.820	8.820	21.601	21.601	13.920	13.920
ES	2001	394048	40766049	0.967	0.967		1.834	1.098		8.854	8.820	23.007	23.007	10.550	10.550
ES	2002	443085	41423520	1.070	1.070		2.570	1.098		8.889	8.820	24.376	24.376	11.449	11.449
ES	2003	429524	42196231	1.018	1.018		3.306	1.098		8.924	8.820	25.015	25.015	11.486	11.486
ES	2004	645844	42859172	1.507	1.507	4.042	4.042	4.042	8.958	8.958	8.958	26.160	26.160	10.966	10.966
ES	2005	682711	43662613	1.564	1.564		4.453	4.042		8.580	8.958	27.601	27.601	9.151	9.151
ES	2006	802971	44360521	1.810	1.810		4.864	4.042		8.201	8.958	30.705	30.705	8.455	8.455
ES	2007	920534	45236004	2.035	2.035		5.275	4.042		7.823	8.958	32.424	32.424	8.232	8.232
ES	2008	567372	45983169	1.234	1.234	5.686	5.686	5.686	7.444	7.444	7.444	33.242	33.242	11.244	11.244
ES	2009	365367	46367550	0.788	0.788		6.494	5.686		6.181	7.444	32.113	32.113	17.857	17.857
ES	2010	330286	46562483	0.709	0.709		7.303	5.686		4.918	7.444	31.717	31.717	19.860	19.860
ES	2011	335893	46736257	0.719	0.719	8.111	8.111	8.111	3.655	3.655	3.655	31.872	31.872	21.390	21.390
ES	2012	272489	46766403	0.583	0.583		7.504	8.111		3.837	3.655	31.725	31.725	24.788	24.788
ES	2013	248350	46593236	0.533	0.533		6.896	8.111		4.018	3.655	32.453	32.453	26.092	26.092
ES	2014	264485	46455123	0.569	0.569		6.288	8.111		4.200	3.655	33.544	33.544	24.443	24.443
ES	2015	290005	46410149	0.625	0.625	5.680	5.680	5.680	4.381	4.381	4.381	34.929	34.929	22.057	22.057
ES	2016	352174	46449874	0.758	0.758	6.210	6.210	6.210	3.259	3.259	3.259	37.314	37.314	19.634	19.634
ES	2017	454424	46532869	0.977	0.977		12.849	6.210		4.107	3.259	39.580	39.580	17.225	17.225
ES	2018	559998	46733038	1.198	1.198		19.488	6.210		4.956	3.259	40.780	40.780	15.258	15.258
ES	2019				1.420	26.127	26.127	26.127	5.804	5.804	5.804	42.212	42.212	14.106	14.106
FI	2000		5176203		0.234		-3.529			-13.379		26.796	26.796	9.800	9.800
FI	2001	11037	5188005	0.213	0.213		-0.163			-8.003		27.808	27.808	9.122	9.122
FI	2002	9972	5200598	0.192	0.192		3.204			-2.627		28.605	28.605	9.081	9.081
FI	2003	9432	5213010	0.181	0.181	6.571	6.571	6.571	2.749	2.749	2.749	29.022	29.022	9.017	9.017
FI	2004	11511	5228173	0.220	0.220		9.938	6.571		8.125	2.749	31.176	31.176	8.816	8.816
FI	2005	12744	5246100	0.243	0.243		13.305	6.571		13.501	2.749	32.052	32.052	8.379	8.379
FI	2006	13868	5266266	0.263	0.263		16.671	6.571		18.876	2.749	34.409	34.409	7.715	7.715
FI	2007	17504	5288719	0.331	0.331	20.038	20.038	20.038	24.252	24.252	24.252	37.793	37.793	6.854	6.854
FI	2008	19906	5313398	0.375	0.375		25.653	20.038		23.616	24.252	40.084	40.084	6.363	6.363
FI	2009	18087	5338867	0.339	0.339		31.269	20.038		22.979	24.252	38.000	38.000	8.238	8.238
FI	2010	18212	5363341	0.340	0.340		36.884	20.038		22.342	24.252	38.986	38.986	8.387	8.387
FI	2011	20416	5388272	0.379	0.379	42.500	42.500	42.500	21.705	21.705	21.705	40.917	40.917	7.775	7.775
FI	2012	23334	5413967	0.431	0.431		38.432	42.500		20.488	21.705	40.873	40.873	7.682	7.682
FI	2013	23873	5438975	0.439	0.439		34.365	42.500		19.271	21.705	41.493	41.493	8.186	8.186
FI	2014	23647	5461507	0.433	0.433		30.297	42.500		18.053	21.705	41.750	41.750	8.658	8.658
FI	2015	21414	5479528	0.391	0.391	26.229	26.229	26.229	16.836	16.836	16.836	42.490	42.490	9.367	9.367
FI	2016	27274	5495297	0.496	0.496		30.121	26.229		17.185	16.836	44.934	44.934	8.811	8.811
FI	2017	23735	5508209	0.431	0.431		34.012	26.229		17.535	16.836	47.570	47.570	8.634	8.634

Country	Year	Inflow foreign (abs.)	Pop. size (abs.)	Inflow foreign. in %	Inflow foreig. in % (inter.)	Excl. Disc.	Excl. disc. (inter. linear)	Excl. disc. (inter. step)	Incl. disc.	Incl. disc. (inter. linear)	Incl. Disc. (inter. step)	GDP per Capita (in 1,000$)	GDP per Capita (inter.)	Unemp. rate in %	Unemp. rate in% (inter.)
FI	2018	23146	5515525	0.420	0.420		37.904	26.229		17.885	16.836	49.749	49.749	7.357	7.357
FI	2019	24178			0.408	41.795	41.795	41.795	18.234	18.234	18.234	51.557	51.557	6.691	6.691
FR	2000		60724780		0.148		14.711			16.622		26.106	26.106		6.993
FR	2001	106877	61163237	0.175	0.175		17.694			14.853		27.506	27.506		7.362
FR	2002	124232	61604550	0.202	0.202	20.677	20.677	20.677	13.083	13.083	13.083	28.528	28.528		7.731
FR	2003	136370	62037544	0.220	0.220		23.660	20.677		11.313	13.083	28.148	28.148	8.100	8.100
FR	2004	141554	62490800	0.227	0.227		26.643	20.677		9.543	13.083	29.041	29.041	8.468	8.468
FR	2005	135866	62958328	0.216	0.216		29.626	20.677		7.774	13.083	30.504	30.504	8.494	8.494
FR	2006	228693	63393406	0.361	0.361		32.609	20.677		6.004	13.083	32.431	32.431	8.449	8.449
FR	2007	145876	63781275	0.229	0.229	35.592	35.592	35.592	4.234	4.234	4.234	34.087	34.087	7.659	7.659
FR	2008	146964	64133174	0.229	0.229		35.993	35.592		3.725	4.234	35.103	35.103	7.063	7.063
FR	2009	149603	64458715	0.232	0.232		36.393	35.592		3.216	4.234	34.712	34.712	8.736	8.736
FR	2010	145831	64773169	0.225	0.225		36.794	35.592		2.707	4.234	35.939	35.939	8.872	8.872
FR	2011	142125	65087317	0.218	0.218		37.194	35.592		2.198	4.234	37.448	37.448	8.811	8.811
FR	2012	151599	65402998	0.232	0.232	37.595	37.595	37.595	1.690	1.690	1.690	37.684	37.684	9.399	9.399
FR	2013	251299	65735961	0.382	0.382		41.478	37.595		3.296	1.690	39.528	39.528	9.921	9.921
FR	2014	251767	66276671	0.380	0.380		45.361	37.595		4.902	1.690	40.144	40.144	10.292	10.292
FR	2015	242707	66512558	0.365	0.365		49.244	37.595		6.508	1.690	40.830	40.830	10.355	10.355
FR	2016	245663	66685530	0.368	0.368		53.126	37.595		8.114	1.690	42.856	42.856	10.039	10.039
FR	2017	245902	66829563	0.368	0.368	57.009	57.009	57.009	9.720	9.720	9.720	44.481	44.481	9.406	9.406
FR	2018	248916	66941698	0.372	0.372		60.892	57.009		11.326	9.720	46.456	46.456	9.017	9.017
FR	2019				0.376		64.775	57.009		12.932	9.720	49.226	49.226	8.443	8.443
GB	2000		58886065		0.401		1.846			-1.306		26.424	26.424	5.575	5.575
GB	2001	262239	59113016	0.444	0.444	4.029	4.029	4.029	1.679	1.679	1.679	27.733	27.733	5.013	5.013
GB	2002	288770	59365677	0.486	0.486		6.212	4.029		4.664	1.679	28.999	28.999	5.132	5.132
GB	2003	327405	59636662	0.549	0.549		8.396	4.029		7.648	1.679	30.238	30.238	4.967	4.967
GB	2004	434322	59950364	0.724	0.724		10.579	4.029		10.633	1.679	31.923	31.923	4.691	4.691
GB	2005	405111	60413276	0.671	0.671	12.763	12.763	12.763	13.617	13.617	13.617	32.586	32.586	4.749	4.749
GB	2006	451702	60827067	0.743	0.743		19.540	12.763		11.501	13.617	34.669	34.669	5.349	5.349
GB	2007	455000	61319075	0.742	0.742		26.317	12.763		9.385	13.617	35.507	35.507	5.262	5.262
GB	2008	456000	61823772	0.738	0.738		33.094	12.763		7.270	13.617	36.635	36.635	5.613	5.613
GB	2009	430000	62260486	0.691	0.691		39.871	12.763		5.154	13.617	35.052	35.052	7.537	7.537
GB	2010	459000	62759456	0.731	0.731	46.648	46.648	46.648	3.038	3.038	3.038	36.468	36.468	7.787	7.787
GB	2011	453000	63285145	0.716	0.716		45.176	46.648		3.323	3.038	37.154	37.154	8.037	8.037
GB	2012	383000	63705030	0.601	0.601		43.703	46.648		3.609	3.038	38.297	38.297	7.885	7.885
GB	2013	406000	64105654	0.633	0.633		42.231	46.648		3.894	3.038	39.945	39.945	7.525	7.525
GB	2014	504000	64596752	0.780	0.780		40.758	46.648		4.180	3.038	41.292	41.292	6.110	6.110
GB	2015	481000	65110034	0.739	0.739	39.286	39.286	39.286	4.465	4.465	4.465	42.572	42.572	5.301	5.301
GB	2016	455000	65648054	0.693	0.693		31.482	39.286		7.500	4.465	44.126	44.126	4.810	4.810
GB	2017	520000	66040229	0.787	0.787	23.678	23.678	23.678	10.534	10.534	10.534	45.758	45.758	4.330	4.330

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GB	2018	486452	66435550	0.732	0.732		30.032	23.678		17.533	10.534	47.163	47.163	3.996	3.996
GB	2019				0.677	36.387	36.387	36.387	24.531	24.531	24.531	48.542	48.542	3.737	3.737
HU	2000		10210965		0.222		12.784			-19.630		11.858	11.858	6.417	6.417
HU	2001	20308	10187578	0.199	0.199		31.730			-8.613		13.214	13.214	5.727	5.727
HU	2002	17972	10158610	0.177	0.177	50.675	50.675	50.675	2.404	2.404	2.404	14.526	14.526	5.830	5.830
HU	2003	19365	10129554	0.191	0.191		69.621	50.675		13.421	2.404	15.465	15.465	5.870	5.870
HU	2004	22164	10107140	0.219	0.219		88.567	50.675		24.438	2.404	16.230	16.230	6.079	6.079
HU	2005	25582	10087064	0.254	0.254		107.512	50.675		35.454	2.404	17.074	17.074	7.188	7.188
HU	2006	23569	10071374	0.234	0.234	126.458	126.458	126.458	46.471	46.471	46.471	18.337	18.337	7.495	7.495
HU	2007	22607	10055778	0.225	0.225		106.049	126.458		35.949	46.471	19.041	19.041	7.406	7.406
HU	2008	35547	10038186	0.354	0.354		85.640	126.458		25.426	46.471	20.697	20.697	7.817	7.817
HU	2009	25582	10022647	0.255	0.255		65.231	126.458		14.904	46.471	20.689	20.689	10.029	10.029
HU	2010	23884	10000020	0.239	0.239	44.822	44.822	44.822	4.381	4.381	4.381	21.717	21.717	11.174	11.174
HU	2011	22514	9958824	0.226	0.226		57.788	44.822		5.635	4.381	23.000	23.000	11.033	11.033
HU	2012	20340	9920364	0.205	0.205		70.754	44.822		6.890	4.381	23.206	23.206	11.008	11.008
HU	2013	21250	9893083	0.215	0.215		83.720	44.822		8.144	4.381	24.499	24.499	10.185	10.185
HU	2014	26004	9866466	0.264	0.264	96.686	96.686	96.686	9.398	9.398	9.398	25.643	25.643	7.728	7.728
HU	2015	25787	9843025	0.262	0.262		145.860	96.686		8.550	9.398	26.777	26.777	6.818	6.818
HU	2016	23803	9814026	0.243	0.243		195.034	96.686		7.701	9.398	27.912	27.912	5.119	5.119
HU	2017	36453	9787969	0.372	0.372		244.208	96.686		6.852	9.398	29.465	29.465	4.157	4.157
HU	2018	49312	9767600	0.505	0.505	293.382	293.382	293.382	6.004	6.004	6.004	31.832	31.832	3.708	3.708
HU	2019				0.637		342.556	293.382		5.155	6.004	33.957	33.957	3.419	3.419
IE	2000		3789536		0.681		-4.887			17.955		30.200	30.200	4.332	4.332
IE	2001	32700	3847198	0.850	0.850		-1.269			16.996		32.581	32.581	3.915	3.915
IE	2002	39900	3917203	1.019	1.019	2.348	2.348	2.348	16.036	16.036	16.036	35.212	35.212	4.444	4.444
IE	2003	42400	3979853	1.065	1.065		5.966	2.348		15.077	16.036	36.231	36.231	4.737	4.737
IE	2004	41800	4045188	1.033	1.033		9.583	2.348		14.117	16.036	38.712	38.712	4.539	4.539
IE	2005	66100	4133839	1.599	1.599		13.201	2.348		13.158	16.036	40.448	40.448	4.338	4.338
IE	2006	88900	4232929	2.100	2.100		16.818	2.348		12.198	16.036	44.212	44.212	4.412	4.412
IE	2007	120400	4375842	2.751	2.751	20.435	20.435	20.435	11.239	11.239	11.239	46.718	46.718	4.979	4.979
IE	2008	89700	4485070	2.000	2.000		19.053	20.435		13.948	11.239	44.185	44.185	6.773	6.773
IE	2009	50700	4533395	1.118	1.118		17.670	20.435		16.657	11.239	41.532	41.532	12.608	12.608
IE	2010	23900	4554763	0.525	0.525		16.287	20.435		19.367	11.239	43.320	43.320	14.532	14.532
IE	2011	33700	4574888	0.737	0.737	14.905	14.905	14.905	22.076	22.076	22.076	44.903	44.903	15.351	15.351
IE	2012	37200	4593697	0.810	0.810		14.227	14.905		19.462	22.076	46.275	46.275	15.449	15.449
IE	2013	41000	4614669	0.888	0.888		13.550	14.905		16.848	22.076	47.924	47.924	13.736	13.736
IE	2014	43700	4645440	0.941	0.941		12.872	14.905		14.234	22.076	51.213	51.213	11.859	11.859
IE	2015	49300	4687787	1.052	1.052		12.195	14.905		11.620	22.076	69.134	69.134	9.910	9.910
IE	2016	53900	4739597	1.137	1.137	11.518	11.518	11.518	9.007	9.007	9.007	71.793	71.793	8.375	8.375
IE	2017	57200	4792490	1.194	1.194		10.840	11.518		6.393	9.007	78.739	78.739	6.714	6.714

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IE	2018	61900	4857015	1.274	1.274		10.163	11.518		3.779	9.007	85.027	85.027	5.739	5.739
IE	2019				1.355		9.485	11.518		1.165	9.007	89.561	89.561	4.951	4.951
IL	2000		6289200		0.839		206.665			33.895		24.940	24.940	8.771	8.771
IL	2001	43473	6439000	0.675	0.675		193.774			34.089		24.907	24.907	9.348	9.348
IL	2002	33570	6570000	0.511	0.511		180.883			34.282		25.205	25.205	10.298	10.298
IL	2003	23273	6689700	0.348	0.348	167.991	167.991	167.991	34.475	34.475	34.475	23.801	23.801	10.713	10.713
IL	2004	20899	6809000	0.307	0.307		155.100	167.991		34.669	34.475	25.153	25.153	10.368	10.368
IL	2005	21183	6930128	0.306	0.306		142.209	167.991		34.862	34.475	24.743	24.743	8.990	8.990
IL	2006	19269	7053707	0.273	0.273	129.318	129.318	129.318	35.056	35.056	35.056	25.581	25.581	8.404	8.404
IL	2007	18131	7180115	0.253	0.253		137.488	129.318		40.453	35.056	27.353	27.353	7.319	7.319
IL	2008	13701	7308795	0.187	0.187		145.658	129.318		45.850	35.056	27.305	27.305	6.099	6.099
IL	2009	14574	7485565	0.195	0.195	153.828	153.828	153.828	51.247	51.247	51.247	27.504	27.504	7.544	7.544
IL	2010	16633	7623561	0.218	0.218		132.454	153.828		42.920	51.247	28.836	28.836	6.637	6.637
IL	2011	16892	7765832	0.218	0.218		111.079	153.828		34.593	51.247	30.498	30.498	5.602	5.602
IL	2012	16558	7910525	0.209	0.209		89.705	153.828		26.266	51.247	31.706	31.706	6.850	6.850
IL	2013	16884	8059456	0.209	0.209	68.331	68.331	68.331	17.939	17.939	17.939	34.167	34.167	6.208	6.208
IL	2014	24112	8215668	0.293	0.293		83.288	68.331		30.861	17.939	34.282	34.282	5.908	5.908
IL	2015	27908	8380149	0.333	0.333	98.244	98.244	98.244	43.784	43.784	43.784	35.488	35.488	5.242	5.242
IL	2016	25977	8546009	0.304	0.304		85.533	98.244		37.936	43.784	37.806	37.806	4.808	4.808
IL	2017	26357	8713300	0.302	0.302		72.821	98.244		32.088	43.784	38.850	38.850	4.217	4.217
IL	2018	28099	8872943	0.317	0.317		60.110	98.244		26.240	43.784	40.351	40.351	4.000	4.000
IL	2019	33247			0.331	47.399	47.399	47.399	20.392	20.392	20.392	41.965	41.965	3.800	3.800
IS	2000		281200		1.120		28.440			11.610		29.793	29.793		4.392
IS	2001	2515	284970	0.883	0.883		30.916			12.356		31.875	31.875		4.040
IS	2002	1855	287516	0.645	0.645		33.392			13.102		32.598	32.598		3.689
IS	2003	1353	289522	0.467	0.467	35.868	35.868	35.868	13.849	13.849	13.849	32.690	32.690	3.337	3.337
IS	2004	2512	292077	0.860	0.860		38.344	35.868		14.595	13.849	35.523	35.523	2.986	2.986
IS	2005	4680	296734	1.577	1.577		40.820	35.868		15.341	13.849	37.428	37.428	2.547	2.547
IS	2006	7070	303784	2.327	2.327		43.296	35.868		16.088	13.849	39.580	39.580	2.826	2.826
IS	2007	9318	311567	2.991	2.991	45.772	45.772	45.772	16.834	16.834	16.834	41.435	41.435	2.235	2.235
IS	2008	7471	317404	2.354	2.354		33.614	45.772		8.417	16.834	43.456	43.456	2.944	2.944
IS	2009	3392	318501	1.065	1.065	21.455	21.455	21.455	0.000	0.000	0.000	41.803	41.803	7.219	7.219
IS	2010	2988	318044	0.939	0.939		18.289	21.455		1.682	0.000	39.811	39.811	7.548	7.548
IS	2011	2754	319011	0.863	0.863		15.122	21.455		3.363	0.000	40.939	40.939	7.033	7.033
IS	2012	2827	320723	0.881	0.881		11.955	21.455		5.045	0.000	42.007	42.007	5.983	5.983
IS	2013	3932	323763	1.214	1.214	8.788	8.788	8.788	6.727	6.727	6.727	44.405	44.405	5.381	5.381
IS	2014	4348	327379	1.328	1.328		8.125	8.788		15.186	6.727	45.995	45.995	4.890	4.890
IS	2015	4963	330818	1.500	1.500		7.461	8.788		23.645	6.727	49.203	49.203	3.967	3.967
IS	2016	7859	335435	2.343	2.343	6.798	6.798	6.798	32.104	32.104	32.104	53.487	53.487	2.969	2.969
IS	2017	11758	343399	3.424	3.424	4.602	4.602	4.602	13.756	13.756	13.756	55.638	55.638	2.744	2.744

Country	Year	Inflow foreign (abs.)	Pop. size (abs.)	Inflow foreign. in %	Inflow foreig. in % (inter.)	Excl. Disc.	Excl. disc. (inter. linear)	Excl. disc. (inter. step)	Incl. disc.	Incl. disc. (inter. linear)	Incl. Disc. (inter. step)	GDP per Capita (in 1,000$)	GDP per Capita (inter.)	Unemp. rate in %	Unemp. rate in% (inter.)
IS	2018	11537	352722	3.271	3.271		2.406	4.602		-4.592	13.756	58.226	58.226	2.711	2.711
IS	2019				3.118		0.210	4.602		-22.939	13.756	60.076	60.076	3.510	3.510
IT	2000		56942108		0.323		-3.329			1.093		27.084	27.084	10.588	10.588
IT	2001	172836	56974097	0.303	0.303	0.028	0.028	0.028	0.911	0.911	0.911	28.043	28.043	9.524	9.524
IT	2002	161914	57059013	0.284	0.284		3.386	0.028		0.728	0.911	28.716	28.716	9.007	9.007
IT	2003	424856	57313200	0.741	0.741		6.743	0.028		0.546	0.911	29.116	29.116	8.672	8.672
IT	2004	394756	57685327	0.684	0.684		10.101	0.028		0.364	0.911	29.449	29.449	7.999	7.999
IT	2005	282780	57969482	0.488	0.488		13.458	0.028		0.182	0.911	30.016	30.016	7.729	7.729
IT	2006	254588	58143980	0.438	0.438	16.816	16.816	16.816	0.000	0.000	0.000	32.252	32.252	6.776	6.776
IT	2007	515201	58438309	0.882	0.882		12.404	16.816		0.000	0.000	33.897	33.897	6.075	6.075
IT	2008	496549	58826733	0.844	0.844	7.992	7.992	7.992	0.000	0.000	0.000	35.274	35.274	6.723	6.723
IT	2009	406725	59095367	0.688	0.688		6.553	7.992		0.041	0.000	34.348	34.348	7.748	7.748
IT	2010	424499	59277414	0.716	0.716		5.114	7.992		0.081	0.000	34.861	34.861	8.359	8.359
IT	2011	354327	59379446	0.597	0.597		3.675	7.992		0.122	0.000	36.183	36.183	8.354	8.354
IT	2012	321305	59539725	0.540	0.540		2.236	7.992		0.162	0.000	36.003	36.003	10.651	10.651
IT	2013	279021	60233944	0.463	0.463	0.798	0.798	0.798	0.203	0.203	0.203	36.068	36.068	12.145	12.145
IT	2014	248360	60789144	0.409	0.409		4.742	0.798		0.793	0.203	36.195	36.195	12.680	12.680
IT	2015	250465	60730585	0.412	0.412		8.687	0.798		1.384	0.203	36.899	36.899	11.894	11.894
IT	2016	262929	60627494	0.434	0.434		12.632	0.798		1.974	0.203	39.927	39.927	11.688	11.688
IT	2017	301071	60536713	0.497	0.497		16.576	0.798		2.565	0.203	41.581	41.581	11.211	11.211
IT	2018	285500	60421797	0.473	0.473	20.521	20.521	20.521	3.155	3.155	3.155	43.097	43.097	10.608	10.608
IT	2019	261030			0.448		24.466	20.521		3.745	3.155	44.398	44.398	9.951	9.951
LT	2000		3499534		0.104	13.680	13.680	13.680	17.818	17.818	17.818	8.450	8.450		21.037
LT	2001	3980	3470817	0.115	0.115		16.026	13.680		14.944	17.818	9.440	9.440		18.494
LT	2002	4301	3443066	0.125	0.125		18.373	13.680		12.069	17.818	10.481	10.481		15.951
LT	2003	3415	3415209	0.100	0.100		20.719	13.680		9.195	17.818	12.055	12.055		13.408
LT	2004	2156	3377073	0.064	0.064	23.066	23.066	23.066	6.321	6.321	6.321	13.020	13.020		10.865
LT	2005	2084	3322525	0.063	0.063		26.586	23.066		6.930	6.321	14.511	14.511	8.322	8.322
LT	2006	2237	3269903	0.068	0.068		30.106	23.066		7.540	6.321	16.462	16.462	5.779	5.779
LT	2007	2468	3231297	0.076	0.076		33.626	23.066		8.149	6.321	19.071	19.071	4.254	4.254
LT	2008	2960	3198234	0.093	0.093	37.146	37.146	37.146	8.758	8.758	8.758	20.721	20.721	5.812	5.812
LT	2009	1666	3162911	0.053	0.053		35.840	37.146		10.081	8.758	18.130	18.130	13.782	13.782
LT	2010	1060	3097292	0.034	0.034		34.533	37.146		11.404	8.758	20.112	20.112	17.819	17.819
LT	2011	1673	3028119	0.055	0.055		33.227	37.146		12.727	8.758	22.885	22.885	15.383	15.383
LT	2012	2486	2987773	0.083	0.083	31.920	31.920	31.920	14.050	14.050	14.050	24.704	24.704	13.368	13.368
LT	2013	3036	2957689	0.103	0.103		31.077	31.920		17.514	14.050	26.722	26.722	11.772	11.772
LT	2014	4766	2932366	0.163	0.163		30.234	31.920		20.977	14.050	28.184	28.184	10.700	10.700
LT	2015	3747	2904908	0.129	0.129		29.391	31.920		24.440	14.050	28.834	28.834	9.120	9.120
LT	2016	5955	2868234	0.208	0.208	28.548	28.548	28.548	27.903	27.903	27.903	30.925	30.925	7.861	7.861
LT	2017	10213	2828398	0.361	0.361		27.705	28.548		31.367	27.903	33.762	33.762	7.072	7.072

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LT	2018	12322	2801541	0.440	0.440		26.862	28.548		34.830	27.903	36.346	36.346	6.152	6.152
LT	2019	19655			0.519		26.019	28.548		38.293	27.903	38.765	38.765	6.255	6.255
NL	2000		15925505		0.642		-21.382			7.985		31.884	31.884	2.947	2.947
NL	2001	94507	16046182	0.589	0.589		-6.314			5.903		33.195	33.195	2.251	2.251
NL	2002	86619	16148921	0.536	0.536	8.754	8.754	8.754	3.821	3.821	3.821	34.447	34.447	2.756	2.756
NL	2003	73566	16225303	0.453	0.453	23.822	23.822	23.822	1.739	1.739	1.739	34.115	34.115	3.682	3.682
NL	2004	65121	16281777	0.400	0.400		28.438	23.822		6.981	1.739	35.780	35.780	4.558	4.558
NL	2005	63415	16319871	0.389	0.389		33.053	23.822		12.223	1.739	37.625	37.625	5.874	5.874
NL	2006	67657	16346096	0.414	0.414	37.669	37.669	37.669	17.465	17.465	17.465	40.959	40.959	5.004	5.004
NL	2007	80258	16381696	0.490	0.490		39.678	37.669		15.859	17.465	43.885	43.885	4.154	4.154
NL	2008	103356	16445590	0.628	0.628		41.687	37.669		14.254	17.465	46.419	46.419	3.655	3.655
NL	2009	104410	16530387	0.632	0.632		43.695	37.669		12.648	17.465	44.591	44.591	4.348	4.348
NL	2010	110235	16615390	0.663	0.663	45.704	45.704	45.704	11.042	11.042	11.042	45.079	45.079	4.989	4.989
NL	2011	118457	16693074	0.710	0.710		38.156	45.704		9.178	11.042	46.599	46.599	4.977	4.977
NL	2012	115678	16754963	0.690	0.690	30.608	30.608	30.608	7.314	7.314	7.314	47.272	47.272	5.821	5.821
NL	2013	122321	16804430	0.728	0.728		38.544	30.608		8.197	7.314	49.243	49.243	7.243	7.243
NL	2014	139348	16865008	0.826	0.826		46.480	30.608		9.080	7.314	49.233	49.233	7.416	7.416
NL	2015	159483	16939925	0.941	0.941		54.416	30.608		9.964	7.314	50.288	50.288	6.872	6.872
NL	2016	182160	17030314	1.070	1.070		62.353	30.608		10.847	7.314	52.289	52.289	6.008	6.008
NL	2017	183856	17131295	1.073	1.073	70.289	70.289	70.289	11.730	11.730	11.730	55.090	55.090	4.840	4.840
NL	2018	191005	17231622	1.108	1.108		78.225	70.289		12.613	11.730	57.900	57.900	3.832	3.832
NL	2019	215228			1.144		86.161	70.289		13.497	11.730	59.469	59.469	3.381	3.381
NO	2000		4490973		0.448		9.633			19.782		36.952	36.952	3.331	3.331
NO	2001	25412	4513747	0.563	0.563	9.287	9.287	9.287	17.767	17.767	17.767	37.779	37.779	3.510	3.510
NO	2002	30788	4538157	0.678	0.678		8.940	9.287		15.752	17.767	37.982	37.982	3.760	3.760
NO	2003	26787	4564856	0.587	0.587		8.594	9.287		13.738	17.767	38.553	38.553	4.044	4.044
NO	2004	27864	4591909	0.607	0.607		8.247	9.287		11.723	17.767	42.514	42.514	4.184	4.184
NO	2005	31355	4623293	0.678	0.678	7.901	7.901	7.901	9.708	9.708	9.708	47.801	47.801	4.381	4.381
NO	2006	37425	4660673	0.803	0.803		10.463	7.901		12.483	9.708	54.084	54.084	3.400	3.400
NO	2007	53498	4709156	1.136	1.136		13.025	7.901		15.259	9.708	55.864	55.864	2.496	2.496
NO	2008	58820	4768215	1.234	1.234		15.588	7.901		18.034	9.708	61.719	61.719	2.550	2.550
NO	2009	56682	4828716	1.174	1.174	18.150	18.150	18.150	20.809	20.809	20.809	55.402	55.402	3.103	3.103
NO	2010	65065	4889253	1.331	1.331		22.601	18.150		24.314	20.809	57.967	57.967	3.521	3.521
NO	2011	70759	4953089	1.429	1.429		27.051	18.150		27.819	20.809	62.078	62.078	3.214	3.214
NO	2012	70012	5018574	1.395	1.395		31.502	18.150		31.324	20.809	65.349	65.349	3.123	3.123
NO	2013	66934	5080171	1.318	1.318	35.953	35.953	35.953	34.829	34.829	34.829	66.956	66.956	3.423	3.423
NO	2014	61429	5137427	1.196	1.196		33.636	35.953		29.900	34.829	65.896	65.896	3.485	3.485
NO	2015	59068	5189898	1.138	1.138		31.320	35.953		24.972	34.829	60.353	60.353	4.295	4.295
NO	2016	58508	5236152	1.117	1.117		29.003	35.953		20.044	34.829	58.923	58.923	4.677	4.677
NO	2017	49774	5276965	0.943	0.943	26.686	26.686	26.686	15.116	15.116	15.116	64.050	64.050	4.162	4.162

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NO	2018	44406	5311916	0.836	0.836		24.369	26.686		10.188	15.116	69.709	69.709	3.799	3.799
NO	2019	44570			0.729		22.053	26.686		5.260	15.116	68.344	68.344	3.687	3.687
PL	2000		38258478		0.033		23.868			1.583		10.677	10.677	16.106	16.106
PL	2001	21466	38248076	0.056	0.056	24.427	24.427	24.427	1.266	1.266	1.266	11.124	11.124	18.243	18.243
PL	2002	30243	38232301	0.079	0.079		24.986	24.427		0.950	1.266	11.804	11.804	19.933	19.933
PL	2003	30325	38195177	0.079	0.079		25.545	24.427		0.633	1.266	12.279	12.279	19.620	19.620
PL	2004	36851	38180249	0.097	0.097		26.104	24.427		0.317	1.266	13.343	13.343	18.978	18.978
PL	2005	38512	38161313	0.101	0.101	26.663	26.663	26.663	0.000	0.000	0.000	13.898	13.898	17.753	17.753
PL	2006	34210	38132277	0.090	0.090		33.324	26.663		0.937	0.000	15.136	15.136	13.849	13.849
PL	2007	40637	38115967	0.107	0.107	39.984	39.984	39.984	1.874	1.874	1.874	16.784	16.784	9.608	9.608
PL	2008	41834	38115909	0.110	0.110		33.432	39.984		1.405	1.874	18.308	18.308	7.121	7.121
PL	2009	41277	38153389	0.108	0.108		26.880	39.984		0.937	1.874	19.088	19.088	8.166	8.166
PL	2010	41061	38516689	0.107	0.107		20.328	39.984		0.468	1.874	20.829	20.829	9.640	9.640
PL	2011	41336	38525670	0.107	0.107	13.776	13.776	13.776	0.000	0.000	0.000	22.554	22.554	9.633	9.633
PL	2012	47131	38533789	0.122	0.122		32.681	13.776		0.936	0.000	23.456	23.456	10.089	10.089
PL	2013	46614	38502396	0.121	0.121		51.585	13.776		1.872	0.000	24.273	24.273	10.329	10.329
PL	2014	31977	38483957	0.083	0.083		70.490	13.776		2.809	0.000	25.163	25.163	8.991	8.991
PL	2015	86087	38454576	0.224	0.224	89.395	89.395	89.395	3.745	3.745	3.745	26.535	26.535	7.503	7.503
PL	2016	107038	38426809	0.279	0.279		108.300	89.395		4.681	3.745	27.985	27.985	6.162	6.162
PL	2017	127997	38422346	0.333	0.333		127.205	89.395		5.617	3.745	29.715	29.715	4.887	4.887
PL	2018	137588	38413139	0.358	0.358		146.110	89.395		6.553	3.745	31.614	31.614	3.846	3.846
PL	2019				0.383		165.015	89.395		7.490	3.745	33.778	33.778	3.278	3.278
PT	2000		10289898		2.232		38.856			0.480		18.885	18.885	4.029	4.029
PT	2001	151433	10362722	1.461	1.461		37.652			0.791		19.533	19.533	4.009	4.009
PT	2002	71974	10419631	0.691	0.691	36.448	36.448	36.448	1.102	1.102	1.102	20.357	20.357	4.993	4.993
PT	2003	31754	10458821	0.304	0.304		35.244	36.448		1.413	1.102	20.830	20.830	6.265	6.265
PT	2004	34096	10483861	0.325	0.325		34.040	36.448		1.723	1.102	21.460	21.460	6.623	6.623
PT	2005	28092	10503330	0.267	0.267	32.835	32.835	32.835	2.034	2.034	2.034	22.725	22.725	7.581	7.581
PT	2006	22457	10522288	0.213	0.213		26.571	32.835		2.642	2.034	24.650	24.650	7.647	7.647
PT	2007	32599	10542964	0.309	0.309		20.307	32.835		3.251	2.034	25.702	25.702	7.964	7.964
PT	2008	72826	10558177	0.690	0.690		14.043	32.835		3.859	2.034	26.666	26.666	7.552	7.552
PT	2009	61445	10568247	0.581	0.581	7.779	7.779	7.779	4.467	4.467	4.467	26.478	26.478	9.433	9.433
PT	2010	50747	10573100	0.480	0.480		4.262	7.779		2.606	4.467	27.283	27.283	10.770	10.770
PT	2011	45369	10557560	0.430	0.430	0.746	0.746	0.746	0.746	0.746	0.746	26.769	26.769	12.681	12.681
PT	2012	38537	10514844	0.367	0.367		5.609	0.746		3.220	0.746	26.438	26.438	15.530	15.530
PT	2013	33246	10457295	0.318	0.318		10.473	0.746		5.695	0.746	27.936	27.936	16.184	16.184
PT	2014	35265	10401062	0.339	0.339		15.337	0.746		8.169	0.746	28.742	28.742	13.895	13.895
PT	2015	37851	10358076	0.365	0.365	20.201	20.201	20.201	10.644	10.644	10.644	29.661	29.661	12.445	12.445
PT	2016	46921	10325452	0.454	0.454		19.292	20.201		10.809	10.644	31.608	31.608	11.068	11.068
PT	2017	61413	10300300	0.596	0.596		18.383	20.201		10.973	10.644	33.045	33.045	8.870	8.870

Country	Year	Inflow foreign (abs.)	Pop. size (abs.)	Inflow foreign. in %	Inflow foreig. in % (inter.)	Excl. Disc.	Excl. disc. (inter. linear)	Excl. disc. (inter. step)	Incl. disc.	Incl. disc. (inter. linear)	Incl. Disc. (inter. step)	GDP per Capita (in 1,000$)	GDP per Capita (inter.)	Unemp. rate in %	Unemp. rate in% (inter.)
PT	2018	93154	10283822	0.906	0.906		17.473	20.201		11.137	10.644	34.932	34.932	6.994	6.994
PT	2019				1.215	16.564	16.564	16.564	11.302	11.302	11.302	36.872	36.872	6.463	6.463
SE	2000		8872112		0.452		-9.711			3.792		29.631	29.631		4.629
SE	2001	43833	8895963	0.493	0.493		-4.376			4.151		29.940	29.940	4.851	4.851
SE	2002	47603	8924959	0.533	0.533	0.960	0.960	0.960	4.509	4.509	4.509	30.926	30.926	5.073	5.073
SE	2003	47988	8958233	0.536	0.536		6.296	0.960		4.868	4.509	31.782	31.782	5.677	5.677
SE	2004	47580	8993533	0.529	0.529		11.632	0.960		5.227	4.509	33.831	33.831	6.526	6.526
SE	2005	51297	9029567	0.568	0.568		16.967	0.960		5.586	4.509	34.244	34.244	7.476	7.476
SE	2006	80398	9080506	0.885	0.885	22.303	22.303	22.303	5.945	5.945	5.945	37.680	37.680	7.069	7.069
SE	2007	83536	9148093	0.913	0.913		20.904	22.303		5.470	5.945	40.855	40.855	6.163	6.163
SE	2008	83318	9219639	0.904	0.904		19.504	22.303		4.995	5.945	42.158	42.158	6.234	6.234
SE	2009	83763	9298510	0.901	0.901		18.105	22.303		4.520	5.945	40.309	40.309	8.347	8.347
SE	2010	79036	9378130	0.843	0.843	16.706	16.706	16.706	4.046	4.046	4.046	42.256	42.256	8.611	8.611
SE	2011	75852	9449216	0.803	0.803		18.912	16.706		11.692	4.046	44.609	44.609	7.804	7.804
SE	2012	82597	9519378	0.868	0.868		21.118	16.706		19.339	4.046	45.432	45.432	7.975	7.975
SE	2013	95361	9600375	0.993	0.993		23.325	16.706		26.985	4.046	46.312	46.312	8.053	8.053
SE	2014	106100	9696105	1.094	1.094	25.531	25.531	25.531	34.632	34.632	34.632	47.185	47.185	7.956	7.956
SE	2015	113868	9799183	1.162	1.162		43.412	25.531		30.734	34.632	49.103	49.103	7.432	7.432
SE	2016	142986	9923085	1.441	1.441		61.293	25.531		26.837	34.632	50.430	50.430	6.991	6.991
SE	2017	124976	10057695	1.243	1.243		79.174	25.531		22.939	34.632	51.948	51.948	6.719	6.719
SE	2018	114431	10175214	1.125	1.125	97.055	97.055	97.055	19.041	19.041	19.041	53.553	53.553	6.364	6.364
SE	2019	98235			1.007		114.936	97.055		15.144	19.041	55.069	55.069	6.833	6.833
SK	2000		5400679		0.087		29.830			-1.189		11.356	11.356	18.758	18.758
SK	2001	4723	5379780	0.088	0.088		27.868			0.411		12.390	12.390	19.306	19.306
SK	2002	4784	5378809	0.089	0.089	25.907	25.907	25.907	2.010	2.010	2.010	13.308	13.308	18.671	18.671
SK	2003	4562	5378950	0.085	0.085		23.946	25.907		3.610	2.010	14.151	14.151	17.555	17.555
SK	2004	7919	5382574	0.147	0.147		21.984	25.907		5.210	2.010	15.185	15.185	18.224	18.224
SK	2005	7665	5387285	0.142	0.142		20.023	25.907		6.810	2.010	16.595	16.595	16.259	16.259
SK	2006	4287	5391184	0.080	0.080	18.061	18.061	18.061	8.410	8.410	8.410	18.826	18.826	13.373	13.373
SK	2007	7207	5397766	0.134	0.134		16.189	18.061		7.751	8.410	21.110	21.110	11.145	11.145
SK	2008	7415	5406972	0.137	0.137		14.317	18.061		7.092	8.410	23.609	23.609	9.512	9.512
SK	2009	5141	5418374	0.095	0.095		12.445	18.061		6.434	8.410	22.964	22.964	12.018	12.018
SK	2010	4161	5431024	0.077	0.077	10.573	10.573	10.573	5.775	5.775	5.775	25.030	25.030	14.381	14.381
SK	2011	3751	5398384	0.069	0.069		13.232	10.573		8.875	5.775	26.084	26.084	13.618	13.618
SK	2012	2940	5407579	0.054	0.054	15.891	15.891	15.891	11.976	11.976	11.976	26.974	26.974	13.963	13.963
SK	2013	2475	5413393	0.046	0.046		21.138	15.891		12.579	11.976	28.005	28.005	14.221	14.221
SK	2014	2418	5418649	0.045	0.045		26.385	15.891		13.182	11.976	28.997	28.997	13.184	13.184
SK	2015	3774	5423801	0.070	0.070		31.632	15.891		13.785	11.976	29.928	29.928	11.482	11.482
SK	2016	3610	5430798	0.066	0.066	36.879	36.879	36.879	14.388	14.388	14.388	29.659	29.659	9.672	9.672
SK	2017	2911	5439232	0.054	0.054		42.126	36.879		14.991	14.388	30.082	30.082	8.131	8.131

Country	Year	Inflow foreign (abs.)	Pop. size (abs.)	Inflow foreign. in %	Inflow foreig. in % (inter.)	Excl. Disc.	Excl. disc. (inter. linear)	Excl. disc. (inter. step)	Incl. disc.	Incl. disc. (inter. linear)	Incl. Disc. (inter. step)	GDP per Capita (in 1,000$)	GDP per Capita (inter.)	Unemp. rate in %	Unemp. rate in% (inter.)
SK	2018	2869	5446771	0.053	0.053		47.373	36.879		15.594	14.388	31.509	31.509	6.536	6.536
SK	2019	2486			0.052		52.620	36.879		16.197	14.388	32.563	32.563	5.753	5.753