

Appendix C: Additional results – intended for on-line publication only

Table 5: Regression results on the spatial accessibility to nursery groups with $dist_{max} = 1\text{km}$

Accessibility based on type of institution:	All		Public		NPO	
	Coeff.	Sign.	Coeff.	Sign.	Coeff.	Sign.
<i>Status measure: educational level</i>						
Education	0.146 (0.049)	***	-0.270 (0.032)	***	0.416 (0.038)	***
Constant	3.144 (3.913)		-1.542 (2.873)		4.687 (2.665)	*
# observations	805,327		805,327		805,327	
Residuals clustered at	grid cell		grid cell		grid cell	
R^2	0.050		0.081		0.127	
<i>Status measure: income</i>						
Income	1.164 (0.243)	***	-0.150 (0.214)		1.314 (0.218)	***
Constant	-10.533 (5.070)	**	7.672 (3.875)	*	-18.205 (4.807)	***
# observations	805,327		805,327		805,327	
Residuals clustered at	district		district		district	
R^2	0.065		0.055		0.121	
<i>Status measure: house prices</i>						
House prices	4.890 (0.602)	***	-0.729 (0.347)	**	5.619 (0.549)	***
Constant	-9.203 (4.431)	**	7.662 (3.061)	**	-16.865 (3.341)	***
# observations	805,327		805,327		805,327	
Residuals clustered at	SED		SED		SED	
R^2	0.080		0.056		0.154	
Notes: Accessibility measures are scaled by 1,000. All regressions include fixed year effects and additional variables on neighbourhood characteristics (on female employment rates, share of residents born in Austria or in other EU countries, and on connectivity). Standard errors are reported in parentheses and are based on standard errors that are clustered at the regional level at which the status measure is available. *** significant at 1 %, ** significant at 5%, * significant at 10 % level.						

Table 6: Regression results on the accessibility to nursery groups interacting with time and $dist_{max} = 1\text{km}$

Accessibility based on type of institution:	All		Public		NPO	
	Coeff.	Sign.	Coeff.	Sign.	Coeff.	Sign.
<i>Status measure: educational level</i>						
Education	0.101 (0.047)	**	-0.270 (0.031)	***	0.371 (0.036)	***
Education × time	0.013 (0.004)	***	-0.000 (0.002)		0.013 (0.004)	***
Constant	3.882 (3.927)		-1.550 (2.889)		5.432 (2.663)	**
# observations	805,327		805,327		805,327	
Residuals clustered at	grid cell		grid cell		grid cell	
R^2	0.051		0.081		0.127	
<i>Status measure: income</i>						
Income	1.154 (0.205)	***	-0.208 (0.227)		1.362 (0.228)	***
Income × time	0.003 (0.031)		0.016 (0.012)		-0.013 (0.033)	
Constant	-10.335 (4.935)	**	8.811 (3.616)	**	-19.146 (5.088)	***
# observations	805,327		805,327		805,327	
Residuals clustered at	district		district		district	
R^2	0.065		0.055		0.121	
<i>Status measure: house prices</i>						
House prices	4.000 (0.573)	***	-0.742 (0.336)	**	4.742 (0.530)	***
House prices × time	0.250 (0.056)	***	0.004 (0.021)		0.247 (0.052)	***
Constant	-5.995 (4.420)		7.709 (3.109)	**	-13.704 (3.278)	***
# observations	805,327		805,327		805,327	
Residuals clustered at	SED		SED		SED	
R^2	0.080		0.056		0.155	
Notes: Accessibility measures are scaled by 1,000. All regressions include fixed year effects and additional variables on neighbourhood characteristics (on female employment rates, share of residents born in Austria or in other EU countries, and on connectivity). The variable ‘time’ indicates the year of observation, going from 0 (for 2007) to 7 (for 2014). Standard errors are reported in parentheses and are based on standard errors that are clustered at the regional level at which the status measure is available. *** significant at 1 %, ** significant at 5%, * significant at 10 % level.						

Table 7: Regression results on the spatial accessibility to nursery groups with $f(dist) = dist^{-1}$

Accessibility based on type of institution:	All		Public		NPO	
	Coeff.	Sign.	Coeff.	Sign.	Coeff.	Sign.
<i>Status measure: educational level</i>						
Education	0.171	***	-0.262	***	0.433	***
	(0.050)		(0.032)		(0.040)	
Constant	-0.294		-3.533		3.239	
	(3.805)		(2.737)		(2.716)	
# observations	805,327		805,327		805,327	
Residuals clustered at	grid cell		grid cell		grid cell	
R^2	0.050		0.075		0.115	
<i>Status measure: income</i>						
Income	1.368	***	-0.117		1.485	***
	(0.285)		(0.230)		(0.246)	
Constant	-16.358	**	5.169		-21.527	***
	(6.049)		(4.366)		(5.544)	
# observations	805,327		805,327		805,327	
Residuals clustered at	district		district		district	
R^2	0.067		0.052		0.116	
<i>Status measure: house prices</i>						
House prices	5.466	***	-0.675	*	6.140	***
	(0.707)		(0.388)		(0.643)	
Constant	-14.337	***	5.339	*	-19.676	***
	(4.870)		(3.227)		(3.663)	
# observations	805,327		805,327		805,327	
Residuals clustered at	SED		SED		SED	
R^2	0.081		0.053		0.147	
Notes: Accessibility measures are scaled by 1,000. All regressions include fixed year effects and additional variables on neighbourhood characteristics (on female employment rates, share of residents born in Austria or in other EU countries, and on connectivity). Standard errors are reported in parentheses and are based on standard errors that are clustered at the regional level at which the status measure is available. *** significant at 1 %, ** significant at 5%, * significant at 10 % level.						

Table 8: Regression results on the accessibility to nursery groups interacting with time and $f(dist) = dist^{-1}$

Accessibility based on type of institution:	All		Public		NPO	
	Coeff.	Sign.	Coeff.	Sign.	Coeff.	Sign.
<i>Status measure: educational level</i>						
Education	0.128 (0.048)	***	-0.260 (0.031)	***	0.388 (0.038)	***
Education × time	0.012 (0.004)	***	-0.000 (0.002)		0.013 (0.004)	***
Constant	0.420 (3.816)		-3.562 (2.745)		3.982 (2.713)	
# observations	805,327		805,327		805,327	
Residuals clustered at	grid cell		grid cell		grid cell	
R^2	0.050		0.075		0.116	
<i>Status measure: income</i>						
Income	1.343 (0.238)	***	-0.177 (0.243)		1.520 (0.240)	***
Income × time	0.007 (0.033)		0.017 (0.012)		-0.010 (0.035)	
Constant	-15.857 (5.885)	**	6.357 (4.058)		-22.213 (5.703)	***
# observations	805,327		805,327		805,327	
Residuals clustered at	district		district		district	
R^2	0.067		0.052		0.116	
<i>Status measure: house prices</i>						
House prices	4.493 (0.669)	***	-0.692 (0.374)	*	5.186 (0.622)	***
House prices × time	0.274 (0.059)	***	0.005 (0.024)		0.269 (0.055)	***
Constant	-10.829 (4.868)	**	5.402 (3.289)		-16.231 (3.591)	***
# observations	805,327		805,327		805,327	
Residuals clustered at	SED		SED		SED	
R^2	0.081		0.053		0.148	
Notes: Accessibility measures are scaled by 1,000. All regressions include fixed year effects and additional variables on neighbourhood characteristics (on female employment rates, share of residents born in Austria or in other EU countries, and on connectivity). The variable 'time' indicates the year of observation, going from 0 (for 2007) to 7 (for 2014). Standard errors are reported in parentheses and are based on standard errors that are clustered at the regional level at which the status measure is available. *** significant at 1 %, ** significant at 5%, * significant at 10 % level.						

Table 9: Regression results on the spatial accessibility to nursery groups based on a summary index of neighbourhood quality

Accessibility based on type of institution:	All		Public		NPO	
	Coeff.	Sign.	Coeff.	Sign.	Coeff.	Sign.
<i>Status measure: summary index</i>						
Neighbourhood quality	6.281 (0.840)	***	-1.543 (0.476)	***	7.824 (0.680)	***
Constant	13.041 (5.234)	**	-1.551 (3.708)		14.592 (3.732)	***
# observations	805,327		805,327		805,327	
Residuals clustered at	grid cell		grid cell		grid cell	
R^2	0.053		0.043		0.106	
<i>Status measure: summary index</i>						
Neighbourhood quality	5.496 (0.782)	***	-1.607 (0.474)	***	7.103 (0.640)	***
Neighbourhood quality \times time	0.220 (0.074)	***	0.018 (0.022)		0.202 (0.069)	***
Constant	12.916 (5.228)	**	-1.561 (3.707)		14.477 (3.727)	***
# observations	805,327		805,327		805,327	
Residuals clustered at	grid cell		grid cell		grid cell	
R^2	0.053		0.043		0.106	
Notes: Accessibility measures are scaled by 1,000. Neighbourhood quality is measured by the mean of the standardized variables on education, income and house prices (see Cronbach, 1951). All regressions include fixed year effects and additional variables on neighbourhood characteristics (on female employment rates, share of residents born in Austria or in other EU countries, and on connectivity). The variable 'time' indicates the year of observation, going from 0 (for 2007) to 7 (for 2014). Standard errors are reported in parentheses and are based on standard errors that are clustered at the regional level at which the status measure is available. *** significant at 1 %, ** significant at 5%, * significant at 10 % level.						

Table 10: Regression results on the spatial accessibility to nursery groups (control variables – Table 2 continued)

Accessibility based on type of institution:	All		Public		NPO	
	Coeff.	Sign.	Coeff.	Sign.	Coeff.	Sign.
<i>Status measure: educational level</i>						
Residents born in Austria	0.216 (0.050)	***	0.240 (0.034)	***	-0.024 (0.035)	
Residents born in other EU state	0.189 (0.223)		-0.068 (0.147)		0.257 (0.166)	
Women in employment	0.268 (0.081)	***	0.125 (0.055)	**	0.143 (0.061)	**
Underground station	5.411 (2.562)	**	2.498 (1.416)	*	2.912 (2.033)	
# observations	805,327		805,327		805,327	
Residuals clustered at	grid cell		grid cell		grid cell	
R^2	0.036		0.056		0.082	
<i>Status measure: income</i>						
Residents born in Austria	0.080 (0.060)		0.180 (0.068)	**	-0.100 (0.078)	
Residents born in other EU state	0.066 (0.244)		-0.648 (0.154)	***	0.714 (0.191)	***
Women in employment	0.339 (0.071)	***	0.079 (0.064)		0.260 (0.048)	***
Underground station	5.059 (2.567)	*	2.550 (1.865)		2.509 (1.987)	
# observations	805,327		805,327		805,327	
Residuals clustered at	district		district		district	
R^2	0.046		0.041		0.080	
<i>Status measure: house prices</i>						
Residents born in Austria	0.183 (0.059)	***	0.169 (0.037)	***	0.014 (0.043)	
Residents born in other EU state	-0.312 (0.201)		-0.636 (0.143)	***	0.324 (0.143)	**
Women in employment	0.347 (0.088)	***	0.080 (0.065)		0.267 (0.066)	***
Underground station	3.226 (2.460)		2.666 (1.396)	*	0.560 (1.924)	
# observations	805,327		805,327		805,327	
Residuals clustered at	SED		SED		SED	
R^2	0.060		0.041		0.104	

Notes: Accessibility measures are scaled by 1,000. Regression table includes parameter estimates on control variables on the regressions displayed in Table 2. Fixed year effects are included, but not reported for brevity. Standard errors are reported in parentheses and are based on standard errors that are clustered at the regional level at which the status measure is available. *** significant at 1 %, ** significant at 5%, * significant at 10 % level.

Table 11: Regression results on the accessibility to nursery groups interacting with time (control variables – Table 3 continued)

Accessibility based on type of institution:	All		Public		NPO	
	Coeff.	Sign.	Coeff.	Sign.	Coeff.	Sign.
<i>Status measure: educational level</i>						
Residents born in Austria	0.216 (0.050)	***	0.240 (0.034)	***	-0.024 (0.035)	
Residents born in other EU state	0.189 (0.223)		-0.068 (0.147)		0.257 (0.166)	
Women in employment	0.268 (0.081)	***	0.125 (0.055)	**	0.143 (0.061)	**
Underground station	5.409 (2.563)	**	2.498 (1.416)	*	2.911 (2.034)	
# observations	805,327		805,327		805,327	
Residuals clustered at	grid cell		grid cell		grid cell	
R^2	0.036		0.056		0.082	
<i>Status measure: income</i>						
Residents born in Austria	0.080 (0.060)		0.180 (0.068)	**	-0.100 (0.078)	
Residents born in other EU state	0.066 (0.244)		-0.648 (0.154)	***	0.714 (0.191)	***
Women in employment	0.339 (0.071)	***	0.079 (0.064)		0.260 (0.048)	***
Underground station	5.060 (2.569)	*	2.552 (1.866)		2.507 (1.989)	
# observations	805,327		805,327		805,327	
Residuals clustered at	district		district		district	
R^2	0.046		0.041		0.080	
<i>Status measure: house prices</i>						
Residents born in Austria	0.183 (0.059)	***	0.169 (0.037)	***	0.014 (0.043)	
Residents born in other EU state	-0.312 (0.201)		-0.636 (0.143)	***	0.324 (0.143)	**
Women in employment	0.346 (0.088)	***	0.080 (0.065)		0.267 (0.066)	***
Underground station	3.236 (2.460)		2.666 (1.396)	*	0.569 (1.924)	
# observations	805,327		805,327		805,327	
Residuals clustered at	SED		SED		SED	
R^2	0.060		0.041		0.105	

Notes: Accessibility measures are scaled by 1,000. Regression table includes parameter estimates on control variables on the regressions displayed in Table 3. Fixed year effects are included, but not reported for brevity. Standard errors are reported in parentheses and are based on standard errors that are clustered at the regional level at which the status measure is available. *** significant at 1 %, ** significant at 5%, * significant at 10 % level.