

ONLINE APPENDIX

POLITICAL INSTABILITY AND HOUSING INVESTMENT: EVIDENCE FROM THE CATALAN SECESSIONIST CONFLICT

Table A1. Summary statistics of housing sales by nationality and place of residence of the buyer.

Sample	Variable	Pre-treatment		Post-treatment		t-test
		Mean	SD	Mean	SD	
All	Sales to Spanish	1,688.23	2,225.719	2,376.89	3,143.498	-5.223***
	Sales to foreign residents	161.78	295.771	278.28	447.651	-6.476***
	Sales to foreign non-residents	155.83	454.519	219.38	611.734	-2.401**
Catalan provinces	Sales to Spanish	3,066.31	3,396.693	4,656.44	4,928.847	-2.216**
	Sales to foreign residents	394.66	460.672	641.11	636.085	-2.578**
	Sales to foreign non-residents	232.98	208.210	274.06	206.433	-1.044
Non-Catalan provinces	Sales to Spanish	1,568.39	2,051.683	2,178.66	2,862.135	-4.838***
	Sales to foreign residents	141.53	267.666	246.72	413.639	-6.146***
	Sales to foreign non-residents	149.12	469.318	214.62	634.779	-2.295**

Note: Sales to Spanish=Sales to Spanish citizens (residents and non-residents); Sales to foreign residents= Sales to foreign people living in Spain; Sales to foreign non-residents=Sales to foreign people living abroad.

Table A2. Summary statistics of housing sales by typology.

Sample	Variable	Pre-treatment		Post-treatment		t-test
		Mean	SD	Mean	SD	
All	Sales of single-unit houses	376.81	387.640	608.31	617.098	-9.617***
	Sales of condominium houses	1,492.60	2,177.141	2,150.46	3,111.213	-5.079***
	Sales of new houses	442.00	632.236	282.02	452.881	5.007***
	Sales of second-hand houses	1,564.50	2,226.201	2,594.91	3,370.416	-7.609***
Catalan provinces	Sales of single-unit houses	590.65	463.033	1,025.31	736.299	-4.285***
	Sales of condominium houses	3,016.05	3,372.857	4,439.19	4,771.044	-2.016**
	Sales of new houses	564.74	622.950	441.89	506.594	1.083
	Sales of second-hand houses	3,129.34	3,490.952	5,133.92	5,129.061	-2.705***
Non-Catalan provinces	Sales of single-unit houses	358.22	374.845	572.05	592.946	-8.835***
	Sales of condominium houses	1,360.12	1,987.696	1,951.44	2,845.703	-4.793***
	Sales of new houses	431.32	632.127	268.12	445.880	4.910***
	Sales of second-hand houses	1,428.43	2,025.761	2,374.13	3,083.776	-7.345***

Note: Sales of single-unit houses=Sales of detached or standalone houses (residential units that do not share structural walls with other dwellings); Sales of condominium houses= Sales of individually owned dwellings within a multi-unit building where common areas are jointly owned by all residents; Sales of new houses=Sales of newly built properties being sold for the first time after construction; Sales of second-hand houses=Sales of previously owned or previously occupied residential properties.

Table A3. Summary statistics of control variables, separately for Catalan and non-Catalan provinces.

Variable	Definition	Mean	SD	Min	Max
PANEL A. Catalan provinces					
Unemployment	Unemployment rate (percentage)	17.16	4.74	8.01	29.05
Rental price	Average price (euros) per square meter in the rental market	100.66	2.09	94.93	107.64
Inflation rate	Interannual rate change in consumer price index (percentage)	1.39	1.43	-1.40	4.30
Built houses	Number of new houses built	626.76	948.22	32	7,227
PANEL B. Non-Catalan provinces					
Unemployment	Unemployment rate (percentage)	20.49	7.42	4.35	43.23
Rental price	Average price (euros) per square meter in the rental market	101.02	1.90	93.30	109.53
Inflation rate	Interannual rate change in consumer price index (percentage)	1.18	1.38	-1.80	4.60
Built houses	Number of new houses built	355.05	524.63	0	5,810

Table A4. Auxiliary descriptive panel fixed effects regression.

Dep. variable	(1) Log Sales to locals	(2) Log Sales to non-locals	(3) IHS Sales to non-residents	(4) Log total sales
Unemployment (t-1)	-0.046*** (0.002)	-0.014*** (0.002)	-0.007 (0.005)	-0.040*** (0.002)
log <i>Rental price</i> (t-1)	-1.016** (0.430)	0.106 (0.569)	-4.074*** (1.120)	-0.752* (0.401)
Inflation (t-1)	-0.026*** (0.004)	0.013** (0.006)	-0.034*** (0.011)	-0.017*** (0.004)
log <i>Built houses</i> (t-1)	0.038*** (0.007)	0.032*** (0.010)	-0.223*** (0.019)	0.026*** (0.007)
Province FE	YES	YES	YES	YES
Quarter FE	YES	YES	YES	YES
Observations	1,550	1,550	1,550	1,550
R-squared	0.513	0.216	0.206	0.495
Number of provinces	50	50	50	50

Clustered standard errors at the province level in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Note: the regression uses data for the period 2010:1-2017:3

Table A5. Two-Way Fixed Effects (TWFE) regression results.

Dep. variable	(1) Log Sales to locals	(2) Log Sales to non-locals	(3) Log Sales to non-locals	(4) Log Sales to non-locals	(5) IHS Sales to non-residents	(6) IHS Sales to non-residents	(7) Log total sales	(8) Log total sales
Treated	0.122*** (0.023)	0.119*** (0.028)	0.124 (0.085)	0.111 (0.079)	-0.149 (0.089)	-0.111 (0.086)	0.080*** (0.023)	0.075*** (0.025)
Unemployment (t-1)		-0.012*** (0.002)		-0.004 (0.005)		-0.008 (0.008)		-0.012*** (0.003)
log <i>Rental price</i> (t-1)		-0.039 (0.630)		0.595 (0.839)		-2.805 (1.715)		0.079 (0.614)
Inflation (t-1)		0.024 (0.019)		0.058 (0.035)		0.021 (0.059)		0.050** (0.021)
log <i>Built houses</i> (t-1)		0.011 (0.009)		0.018 (0.013)		0.035 (0.031)		0.008 (0.010)
Province FE	YES	YES	YES	YES	YES	YES	YES	YES
Quarter-year fixed effects	YES	YES	YES	YES	YES	YES	YES	YES
Observations	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
R-squared	0.828	0.834	0.388	0.392	0.410	0.415	0.792	0.801
Number of provinces	50	50	50	50	50	50	50	50

Clustered standard errors at the province level in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A6. Panel event study difference-in-differences regression results.

Dep. variable	(1) Log Sales to locals	(2) Log Sales to non-locals	(3) Log Sales to non-locals	(4) Log Sales to non-locals	(5) IHS Sales to non-residents	(6) IHS Sales to non-residents	(7) Log total sales	(8) Log total sales
Lag 0	-0.083*** (0.012)	-0.086*** (0.013)	0.089 (0.064)	0.077 (0.067)	-0.045 (0.102)	-0.051 (0.104)	-0.058*** (0.021)	-0.066*** (0.021)
Lag 1	-0.054* (0.029)	-0.047 (0.028)	0.144** (0.056)	0.143** (0.057)	-0.102 (0.146)	-0.100 (0.147)	-0.037 (0.038)	-0.028 (0.036)
Lag 2	-0.040* (0.022)	-0.038 (0.028)	0.179** (0.079)	0.175** (0.078)	0.021 (0.128)	0.026 (0.133)	-0.020 (0.026)	-0.019 (0.028)
Lag 3	-0.037 (0.029)	-0.030 (0.029)	-0.004 (0.045)	-0.009 (0.048)	-0.138 (0.158)	-0.128 (0.155)	-0.053* (0.030)	-0.049* (0.028)
Lag 4	-0.067** (0.026)	-0.060** (0.029)	0.163** (0.072)	0.168** (0.079)	0.000 (0.119)	0.030 (0.119)	-0.043 (0.030)	-0.035 (0.030)
Lag 5	-0.100*** (0.030)	-0.072** (0.034)	0.123 (0.097)	0.125 (0.098)	-0.076 (0.125)	-0.036 (0.127)	-0.076*** (0.020)	-0.051** (0.023)
Lag 6	-0.028 (0.049)	0.001 (0.053)	0.183*** (0.066)	0.192*** (0.067)	-0.080 (0.123)	-0.035 (0.139)	-0.002 (0.046)	0.031 (0.047)
Lag 7	-0.021 (0.026)	0.001 (0.031)	0.123 (0.094)	0.125 (0.090)	-0.300** (0.138)	-0.250 (0.156)	-0.026 (0.022)	-0.005 (0.026)
Lag 8	-0.058** (0.028)	-0.046 (0.031)	0.101 (0.108)	0.104 (0.109)	0.044 (0.132)	0.096 (0.135)	-0.022 (0.043)	-0.008 (0.044)
Lead 2	0.006 (0.035)	0.018 (0.039)	0.126** (0.060)	0.124* (0.062)	0.200 (0.132)	0.208 (0.135)	0.047* (0.028)	0.056 (0.039)
Lead 3	-0.041 (0.034)	-0.044 (0.040)	0.199*** (0.067)	0.191*** (0.070)	0.343*** (0.119)	0.330** (0.124)	0.001 (0.034)	-0.005 (0.039)
Lead 4	0.008 (0.019)	0.005 (0.029)	0.078 (0.048)	0.081* (0.047)	0.293** (0.120)	0.294** (0.125)	0.035 (0.021)	0.034 (0.031)
Lead 5	0.009 (0.021)	0.006 (0.030)	0.018 (0.064)	0.017 (0.064)	0.223** (0.093)	0.207** (0.094)	0.026 (0.017)	0.026 (0.025)
Lead 6	0.016 (0.035)	0.033 (0.029)	0.177** (0.080)	0.195** (0.083)	0.210 (0.207)	0.229 (0.212)	0.046 (0.030)	0.068*** (0.025)
Lead 7	-0.065 (0.052)	-0.045 (0.045)	0.105 (0.083)	0.111 (0.084)	0.224* (0.112)	0.235** (0.115)	-0.025 (0.048)	-0.006 (0.040)
Lead 8	-0.096*** (0.022)	-0.085*** (0.023)	0.026 (0.117)	0.031 (0.119)	0.243** (0.115)	0.257** (0.113)	-0.049 (0.034)	-0.041 (0.035)
Lead 9	-0.075***	-0.066***	-0.121*	-0.115*	0.073	0.080	-0.066***	-0.057**

	(0.021)	(0.019)	(0.065)	(0.067)	(0.098)	(0.097)	(0.020)	(0.025)
Lead 10	-0.081***	-0.071**	-0.018	-0.007	0.310***	0.319***	-0.042	-0.031
	(0.024)	(0.027)	(0.084)	(0.086)	(0.104)	(0.106)	(0.031)	(0.036)
Lead 11	-0.116***	-0.111***	-0.021	-0.006	0.148	0.151*	-0.097***	-0.088***
	(0.025)	(0.023)	(0.087)	(0.083)	(0.090)	(0.088)	(0.031)	(0.021)
Lead 12	-0.131***	-0.134***	0.058	0.073	0.383***	0.394***	-0.036	-0.039
	(0.021)	(0.019)	(0.150)	(0.150)	(0.110)	(0.110)	(0.048)	(0.042)
Lead 13	-0.189***	-0.189***	0.011	0.018	-0.020	-0.037	-0.083**	-0.081*
	(0.030)	(0.029)	(0.102)	(0.103)	(0.250)	(0.252)	(0.040)	(0.041)
Lead 14	-0.128***	-0.122**	0.039	0.054	0.242	0.212	-0.045	-0.033
	(0.047)	(0.058)	(0.097)	(0.100)	(0.231)	(0.227)	(0.050)	(0.063)
Lead 15	-0.183***	-0.162***	-0.117	-0.078	0.309	0.325*	-0.127***	-0.092**
	(0.028)	(0.031)	(0.076)	(0.076)	(0.195)	(0.191)	(0.029)	(0.035)
Lead 16	-0.213***	-0.204***	-0.151	-0.122	0.205	0.210	-0.125**	-0.108
	(0.041)	(0.049)	(0.115)	(0.113)	(0.178)	(0.179)	(0.061)	(0.067)
Lead 17	-0.065	-0.048	-0.091	-0.074	0.232	0.232	-0.026	-0.008
	(0.057)	(0.057)	(0.122)	(0.122)	(0.218)	(0.216)	(0.060)	(0.069)
Lead 18	-0.060	-0.047	0.099	0.110	0.299	0.298	0.049	0.059
	(0.054)	(0.058)	(0.119)	(0.122)	(0.257)	(0.250)	(0.073)	(0.084)
Lead 19	-0.109**	-0.102*	0.064	0.054	0.065	0.028	0.024	0.023
	(0.045)	(0.056)	(0.227)	(0.216)	(0.139)	(0.152)	(0.082)	(0.076)
Lead 20	-0.361***	-0.364***	0.020	0.015	-0.673***	-0.723***	-0.268***	-0.275***
	(0.069)	(0.054)	(0.123)	(0.110)	(0.219)	(0.220)	(0.087)	(0.068)
Lead 21	-0.232***	-0.211**	0.080	0.104	-0.212	-0.229	-0.123	-0.098
	(0.072)	(0.082)	(0.152)	(0.145)	(0.306)	(0.298)	(0.099)	(0.101)
Lead 22	-0.158***	-0.132***	-0.159	-0.142	0.166	0.137	-0.149*	-0.121*
	(0.045)	(0.044)	(0.190)	(0.176)	(0.212)	(0.219)	(0.079)	(0.068)
Lead 23	-0.233***	-0.220***	0.047	0.053	0.129	0.054	-0.180***	-0.156***
	(0.042)	(0.051)	(0.089)	(0.084)	(0.165)	(0.197)	(0.055)	(0.058)
Lead 24	-0.394***	-0.381***	0.119	0.137	0.002	-0.061	-0.247**	-0.223**
	(0.070)	(0.060)	(0.143)	(0.131)	(0.247)	(0.268)	(0.102)	(0.089)
Lead 25	-0.292***	-0.280***	-0.056	-0.035	-0.075	-0.118	-0.223**	-0.205**
	(0.079)	(0.076)	(0.124)	(0.115)	(0.189)	(0.225)	(0.090)	(0.086)
Lead 26	-0.336***	-0.315***	-0.102	-0.071	0.054	0.024	-0.277***	-0.248***
	(0.039)	(0.044)	(0.098)	(0.105)	(0.220)	(0.248)	(0.059)	(0.060)
Lead 27	-0.441***	-0.426***	0.035	0.051	-0.005	-0.064	-0.301***	-0.278***
	(0.046)	(0.042)	(0.155)	(0.142)	(0.273)	(0.299)	(0.094)	(0.083)
Lead 28	-0.329***	-0.321***	-0.065	-0.055	-0.080	-0.140	-0.282***	-0.271***

	(0.052)	(0.049)	(0.138)	(0.130)	(0.223)	(0.249)	(0.078)	(0.079)
Lead 29	-0.426***	-0.407***	-0.200*	-0.177	-0.571**	-0.618**	-0.398***	-0.372***
	(0.066)	(0.065)	(0.107)	(0.109)	(0.243)	(0.261)	(0.090)	(0.089)
Lead 30	-0.339***	-0.320***	-0.089	-0.079	-0.321	-0.374	-0.318***	-0.299***
	(0.062)	(0.061)	(0.086)	(0.078)	(0.234)	(0.250)	(0.072)	(0.066)
Lead 31	-0.411***	-0.393***	-0.171**	-0.164**	-0.108	-0.173	-0.382***	-0.361***
	(0.069)	(0.077)	(0.079)	(0.077)	(0.236)	(0.275)	(0.054)	(0.054)
Province FE	YES	YES	YES	YES	YES	YES	YES	YES
Quarter-year fixed effects	YES	YES	YES	YES	YES	YES	YES	YES
Controls	NO	YES	NO	YES	NO	YES	NO	YES
Observations	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
R-squared	0.984	0.984	0.918	0.919	0.954	0.955	0.982	0.983
Number of provinces	50	50	50	50	50	50	50	50

Clustered standard errors at the province level in parentheses. *** p<0.01, ** p<0.05, * p<0.1

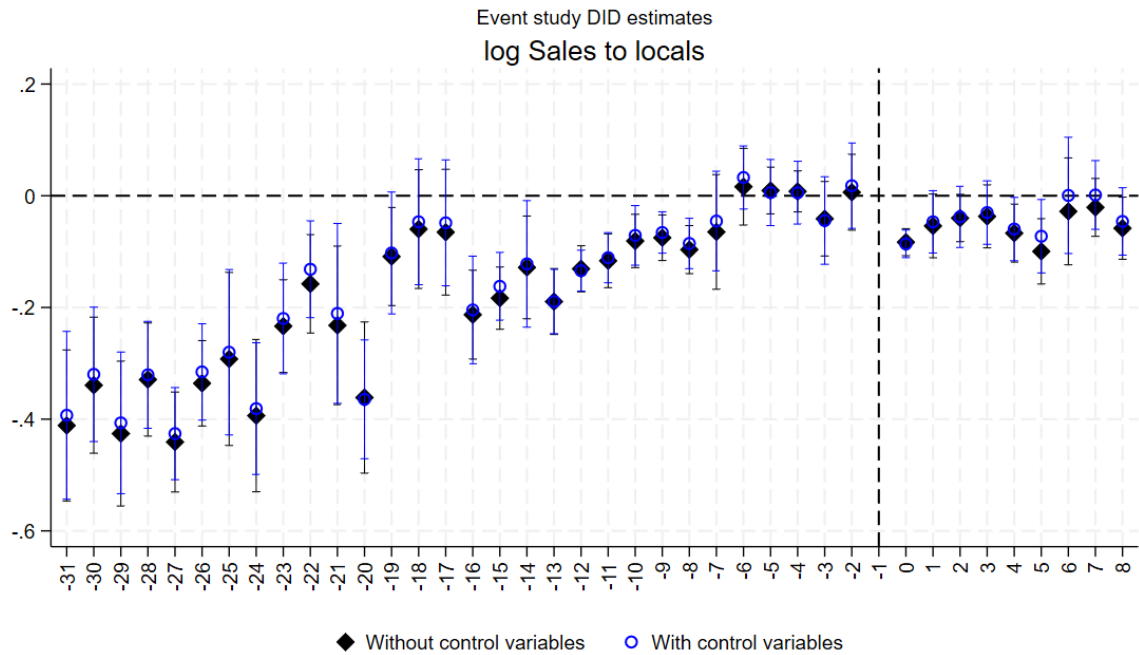


Figure A1. Event study DID estimates for log Sales to locals from Columns (1) and (2) in Table A6.

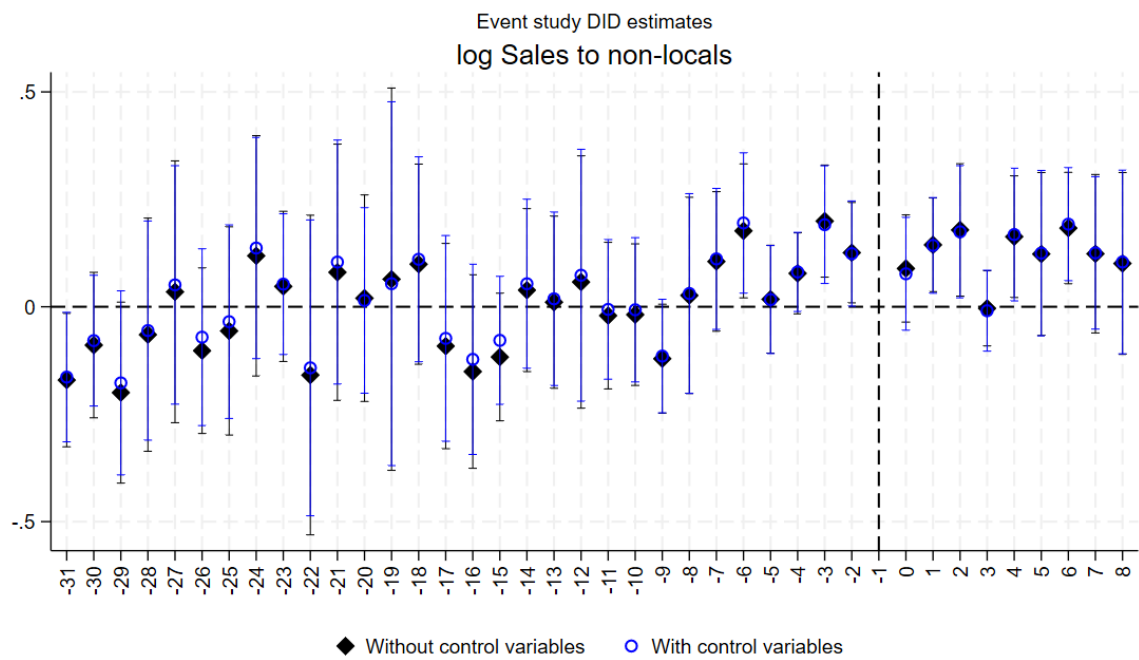


Figure A2. Event study DID estimates for log Sales to non-locals from Columns (3) and (4) in Table A6.

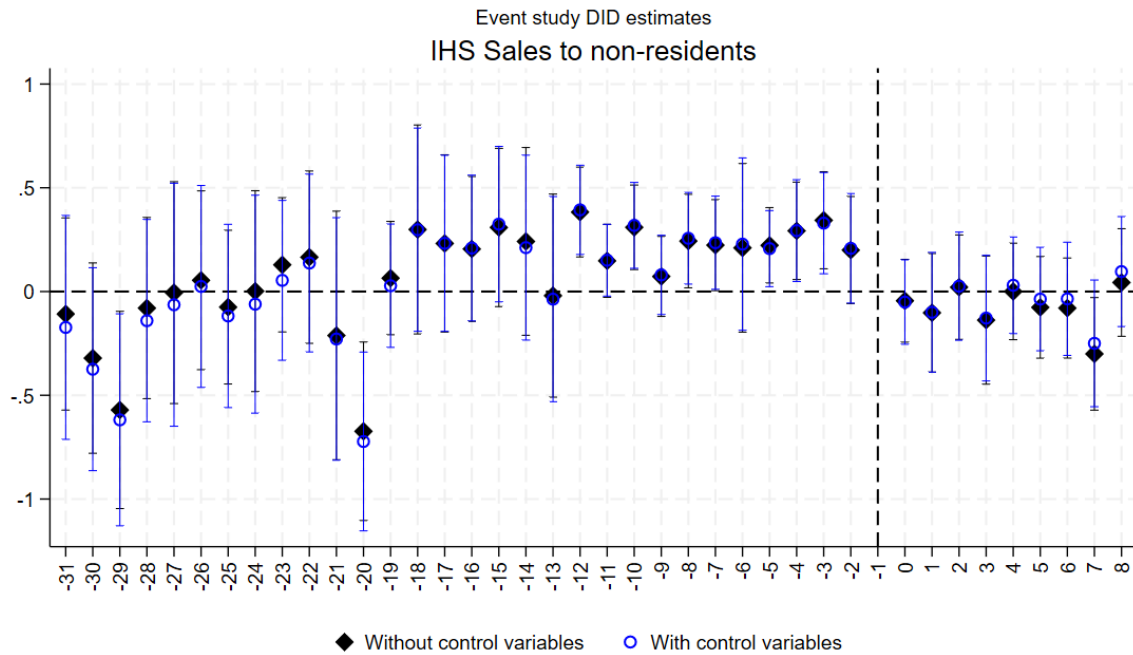


Figure A3. Event study DID estimates for IHS Sales to non-residents from Columns (5) and (6) in Table A6.

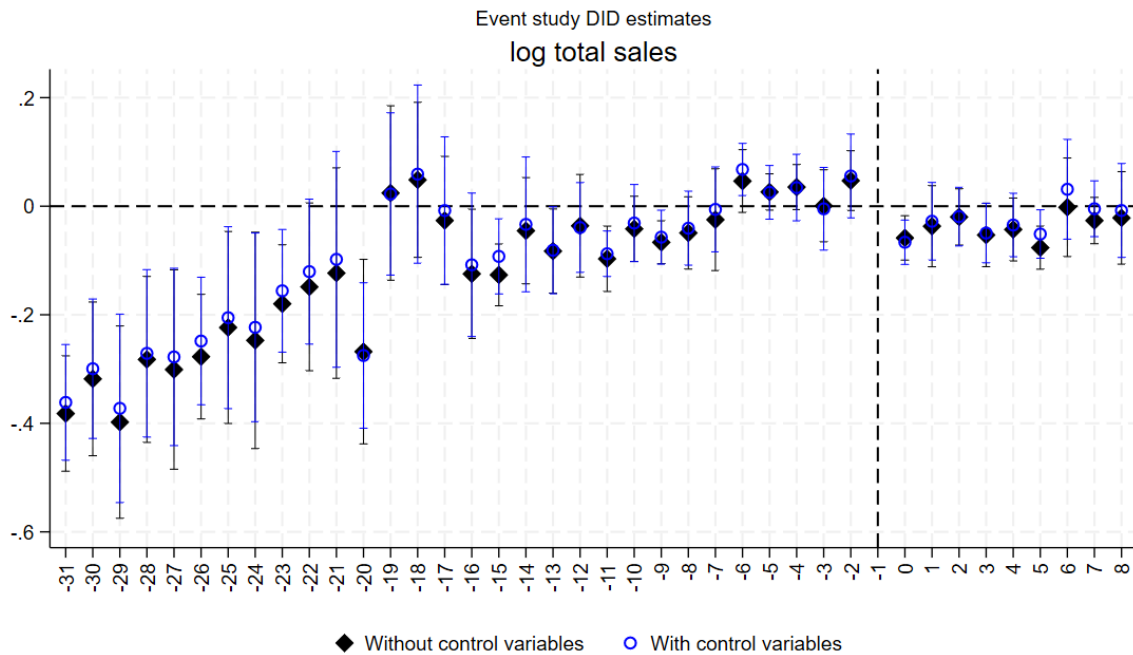


Figure A4. Event study DID estimates for log total sales from Columns (7) and (8) in Table A6.

Table A7. Auxiliary regression for testing parallel trends assumption.

Dep. variable	(1) Log Sales to locals	(2) Log Sales to non-locals	(3) IHS Sales to non-residents	(4) Log total sales
Trend	-0.001 (0.001)	-0.004** (0.002)	0.034*** (0.003)	-0.001 (0.001)
Trend×Catalonia	0.014*** (0.002)	0.006* (0.003)	0.016* (0.008)	0.013*** (0.003)
Province FE	YES	YES	YES	YES
Observations	1,550	1,550	1,550	1,550
R-squared	0.013	0.010	0.247	0.013
Number of provinces	50	50	50	50

Robust standard errors at the province level in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Note: the regression uses data for the period 2010:1-2017:3

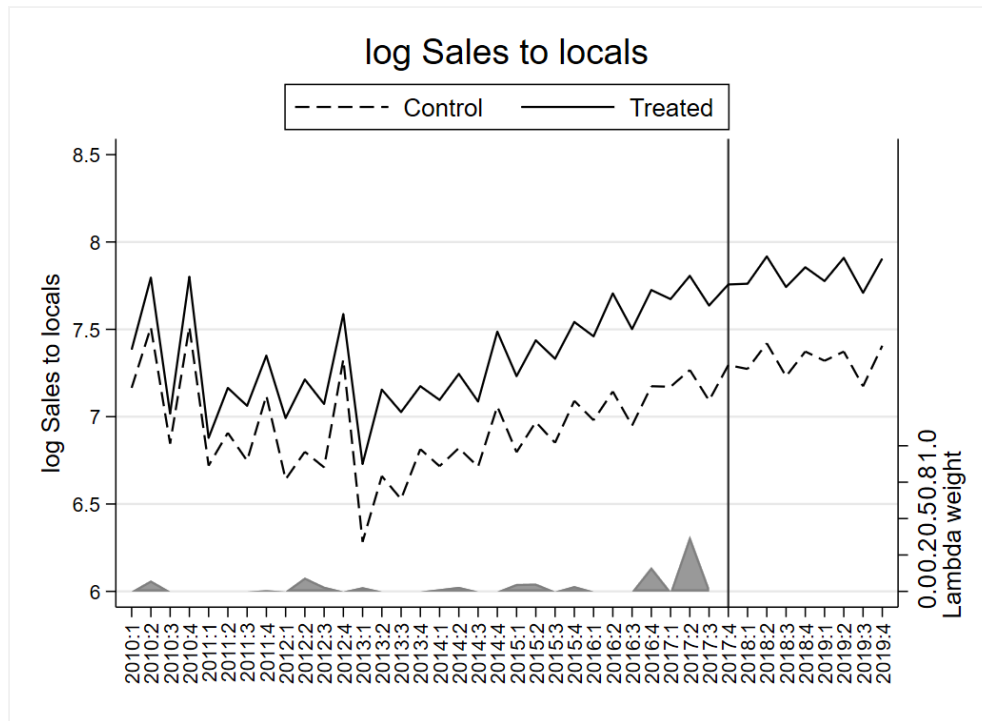


Figure A5. Time series evolution of log Sales to locals in treated provinces and synthetic counterfactual.
Note: the graph corresponds to the synthetic estimates from Column (1) in Panel A in Table 3 that considers a two-way fixed effects specification.

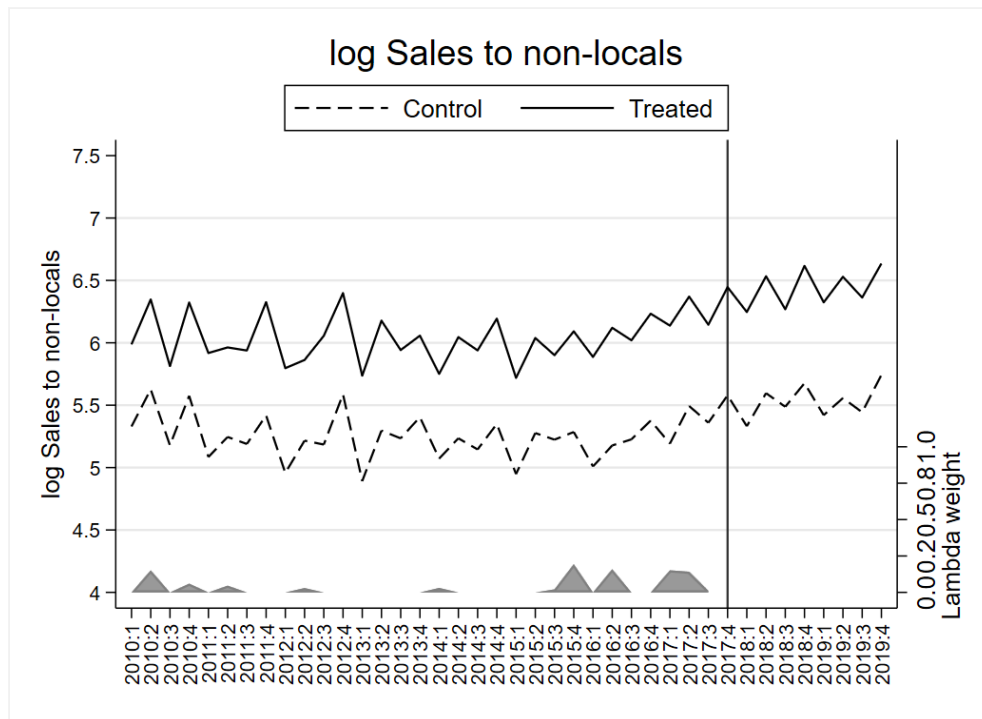


Figure A6. Time series evolution of log Sales to non-locals in treated provinces and synthetic counterfactual.
Note: the graph corresponds to the synthetic estimates from Column (2) in Panel A in Table 3 that considers a two-way fixed effects specification.

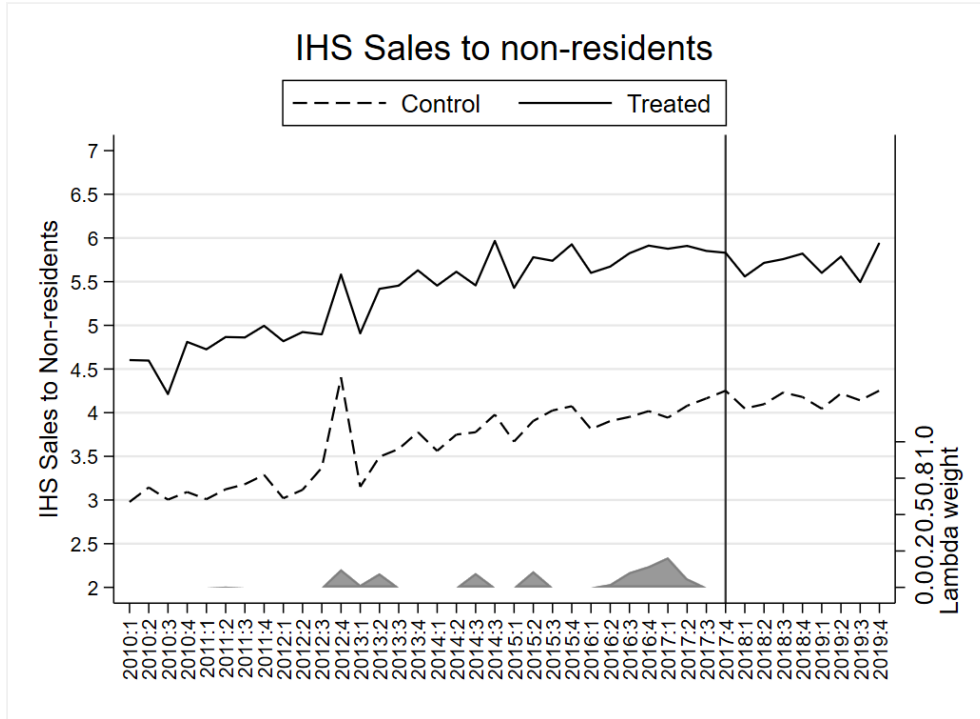


Figure A7. Time series evolution of IHS Sales to non-residents in treated provinces and synthetic counterfactual.

Note: the graph corresponds to the synthetic estimates from Column (3) in Panel A in Table 3 that considers a two-way fixed effects specification.

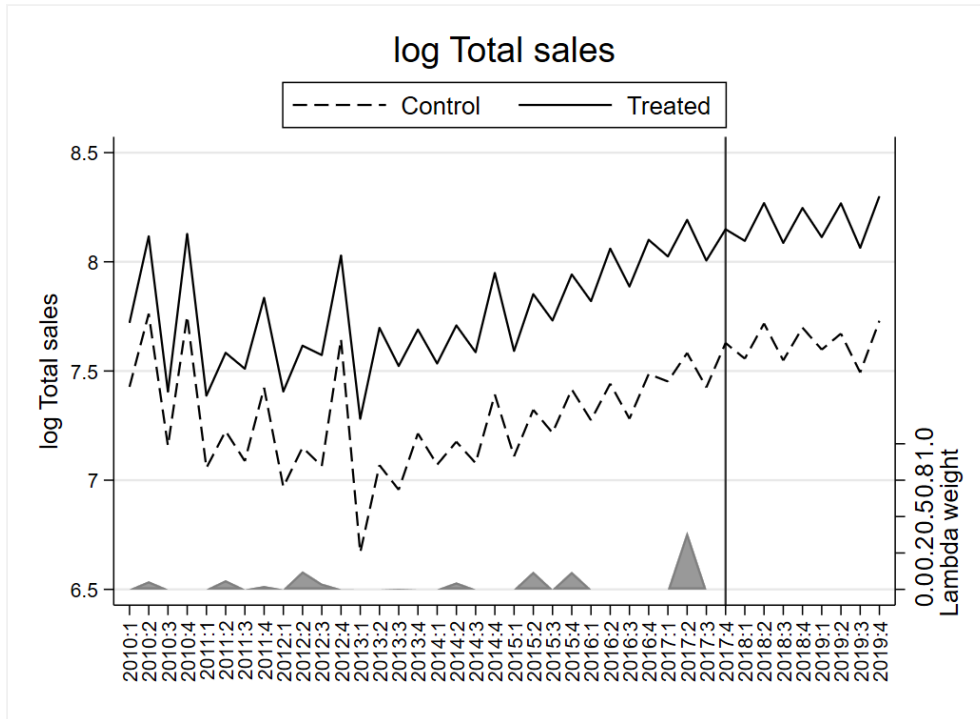


Figure A8. Time series evolution of log total sales in treated provinces and synthetic counterfactual.

Note: the graph corresponds to the synthetic estimates from Column (4) in Panel A in Table 3 that considers a two-way fixed effects specification.

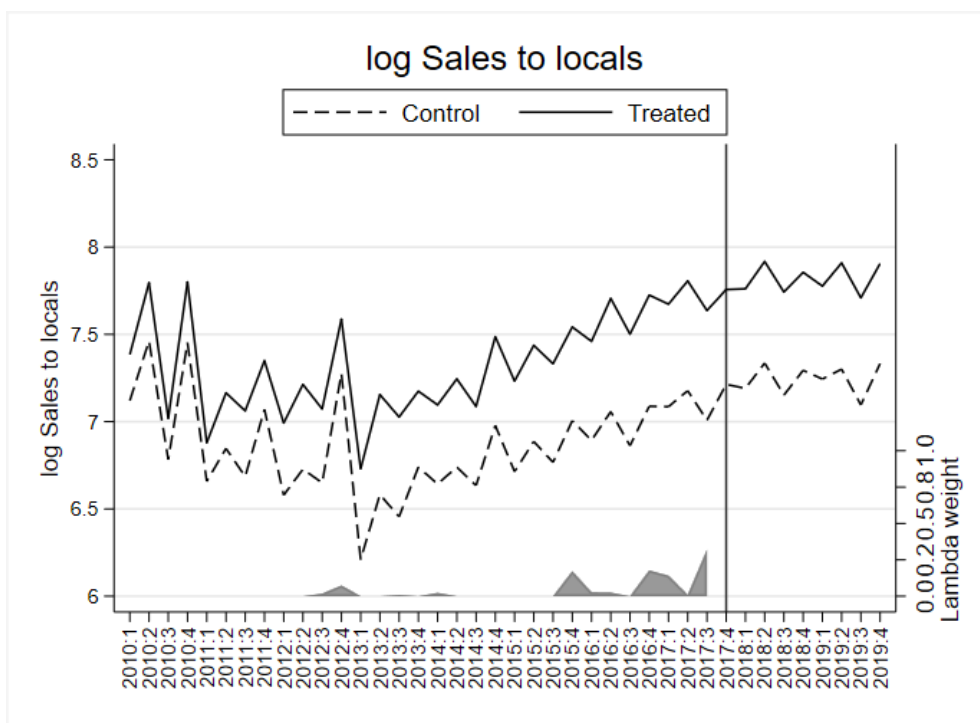


Figure A9. Time series evolution of log Sales to locals in treated provinces and synthetic counterfactual. Note: the graph corresponds to the synthetic estimates from Column (1) in Panel A in Table 3 that considers a two-way fixed effects specification plus time-varying controls.

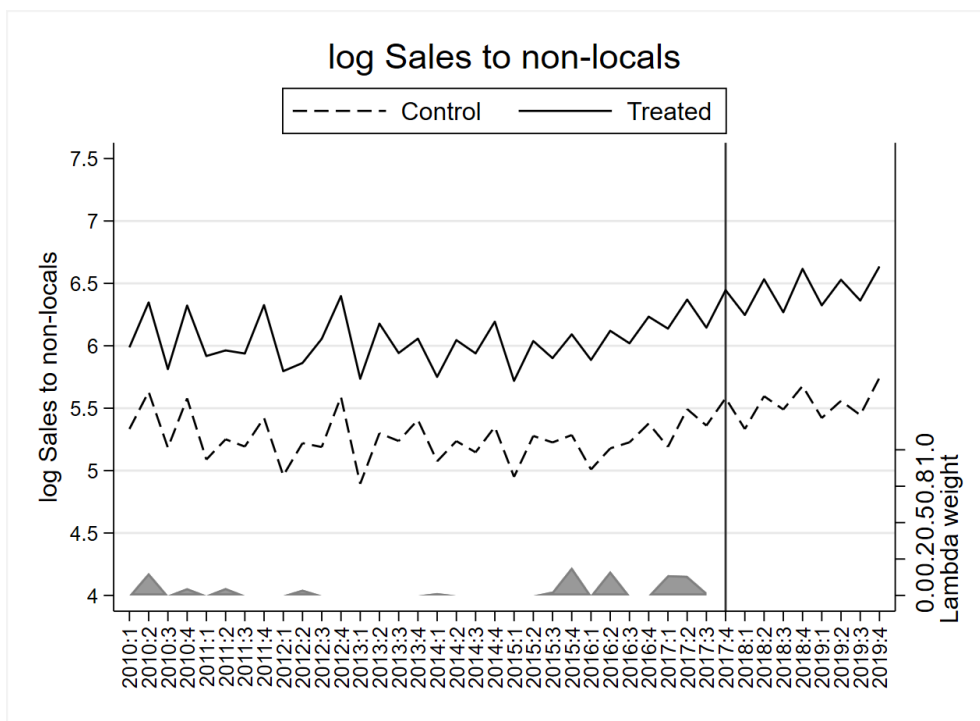


Figure A10. Time series evolution of log Sales to non-locals in treated provinces and synthetic counterfactual. Note: the graph corresponds to the synthetic estimates from Column (2) in Panel A in Table 3 that considers a two-way fixed effects specification plus time-varying controls.

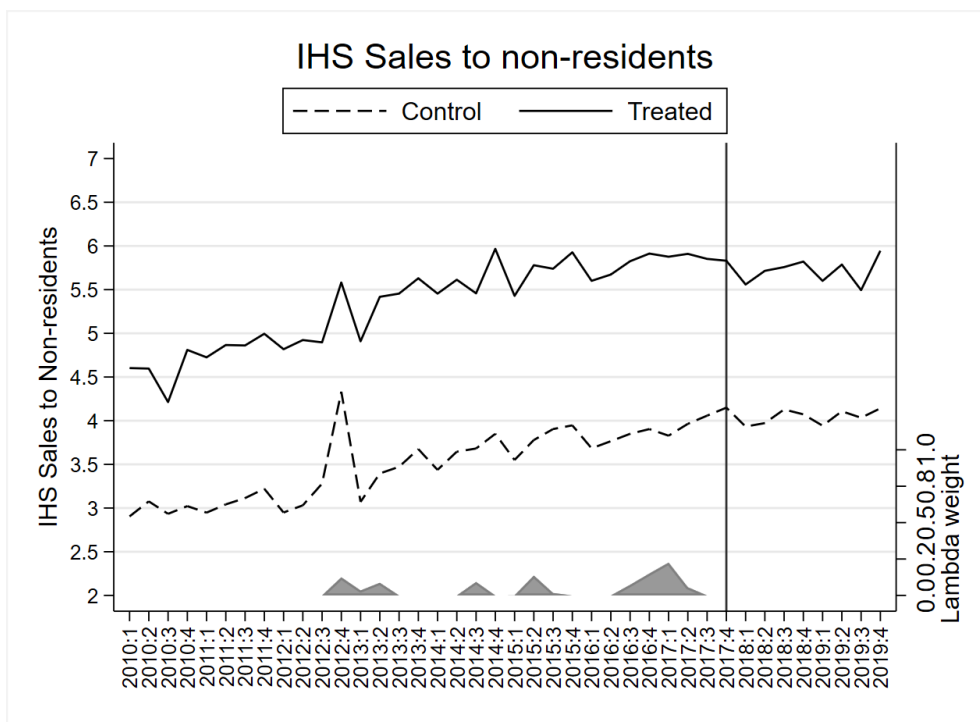


Figure A11. Time series evolution of IHS Sales to non-residents in treated provinces and synthetic counterfactual.

Note: the graph corresponds to the synthetic estimates from Column (3) in Panel A in Table 3 that considers a two-way fixed effects specification plus time-varying controls.

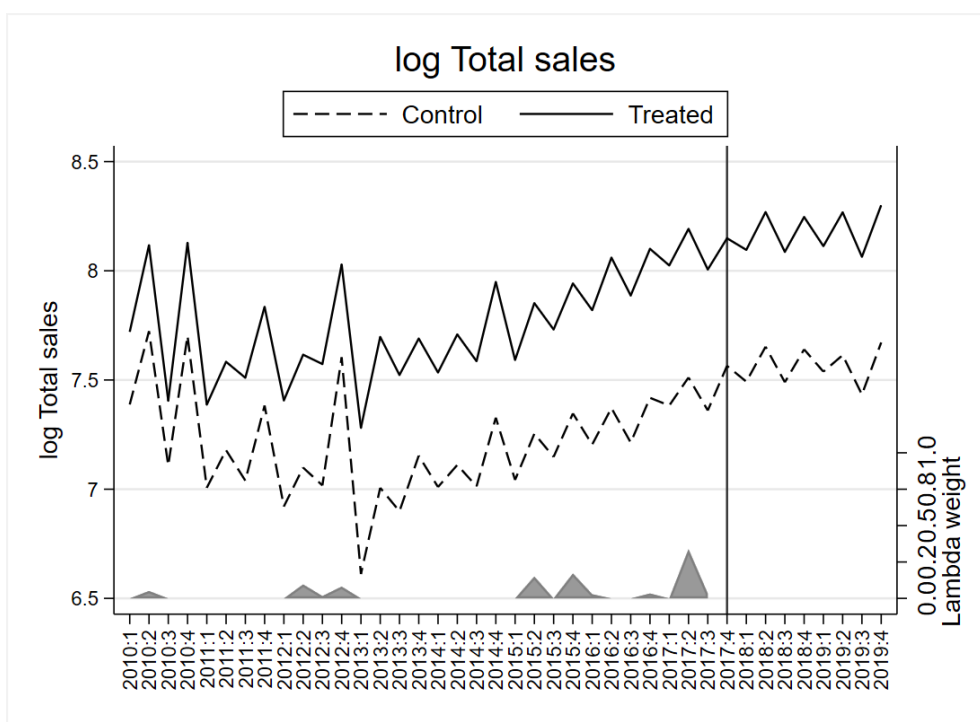


Figure A12. Time series evolution of log total sales in treated provinces and synthetic counterfactual.

Note: the graph corresponds to the synthetic estimates from Column (4) in Panel A in Table 3 that considers a two-way fixed effects specification plus time-varying controls.

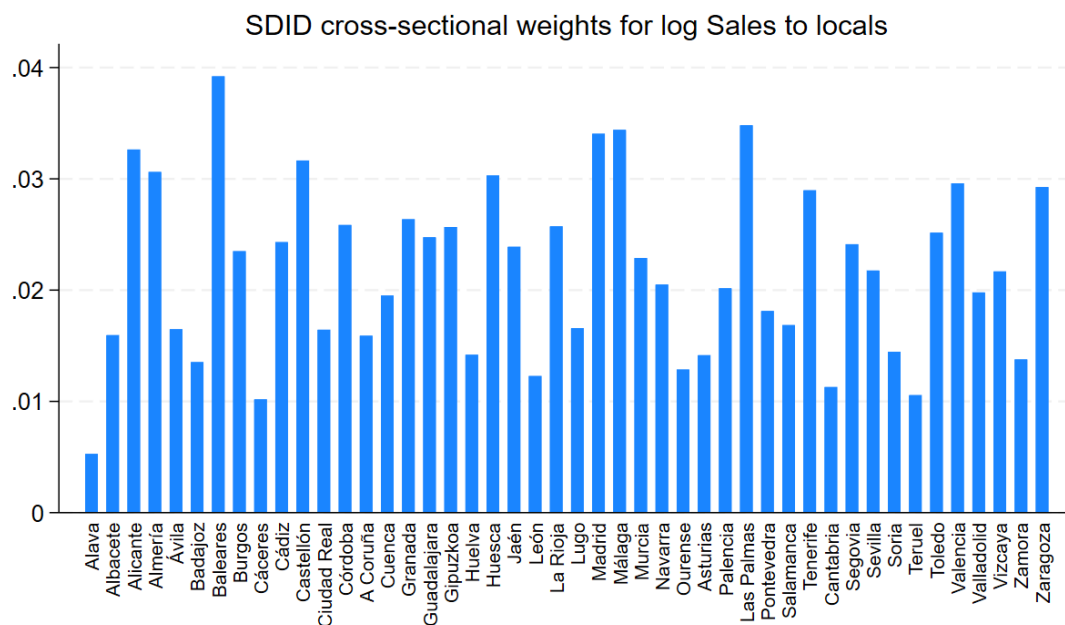


Figure A13. SDID cross-sectional weights for log Sales to locals.

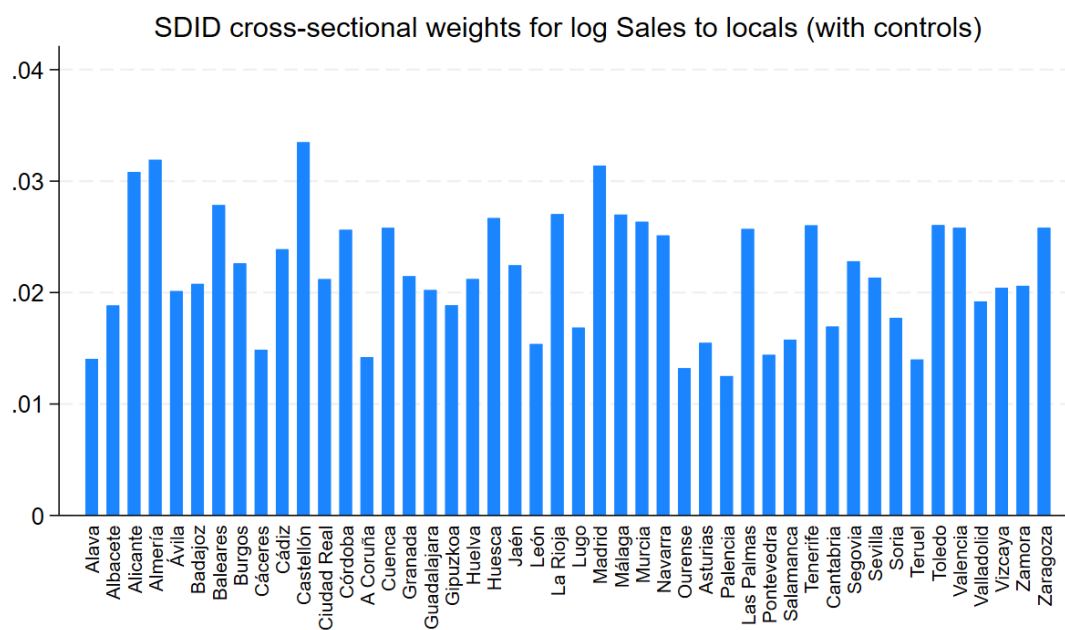


Figure A14. SDID cross-sectional weights for log Sales to locals (with controls).

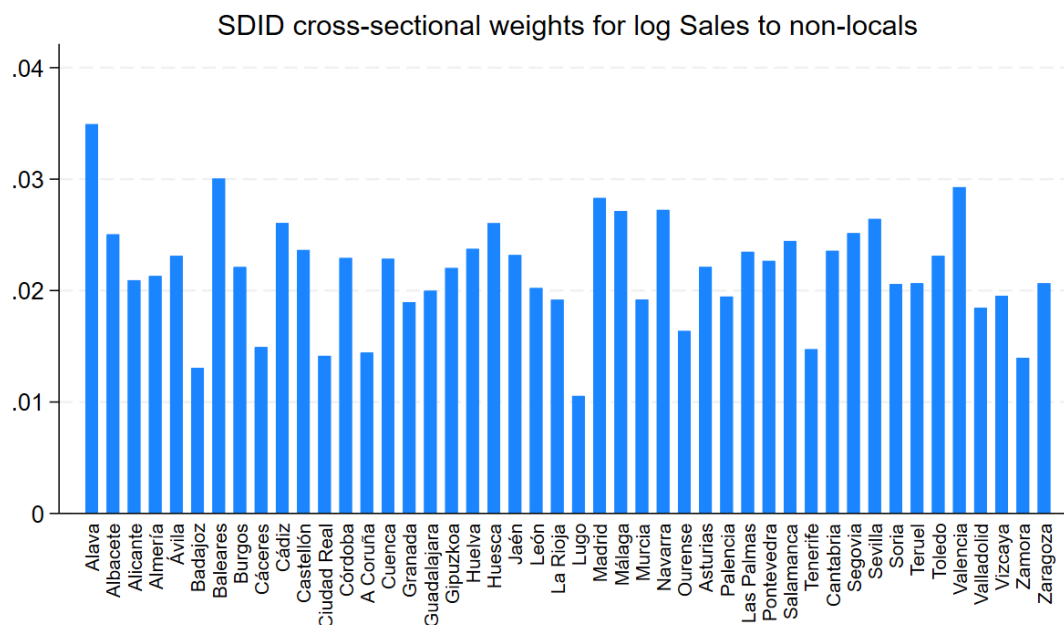


Figure A15. SDID cross-sectional weights for log Sales to non-locals.

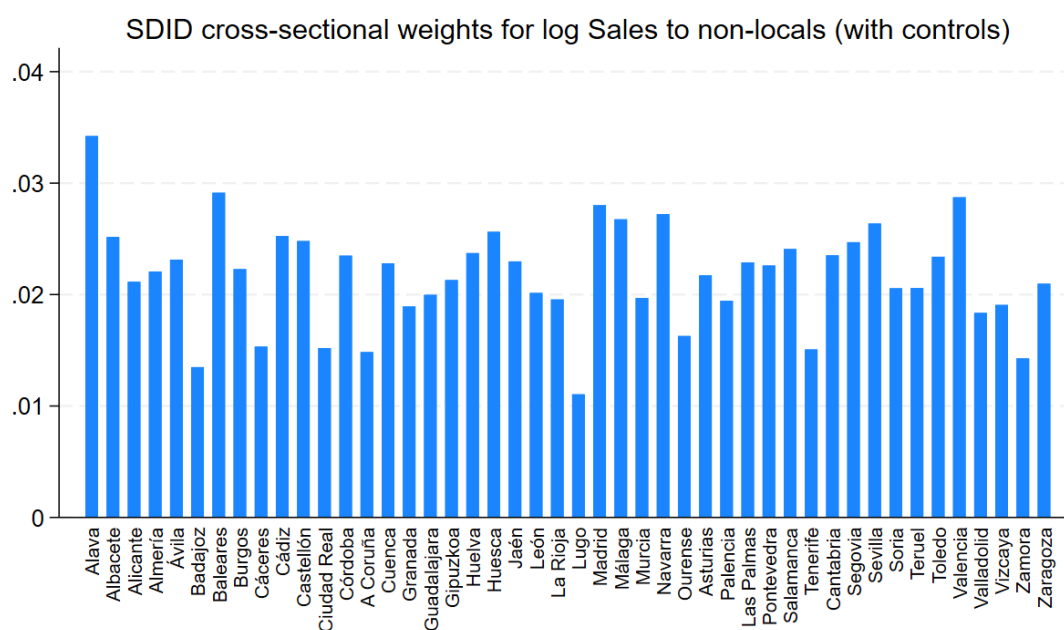


Figure A16. SDID cross-sectional weights for log Sales to non-locals (with controls).

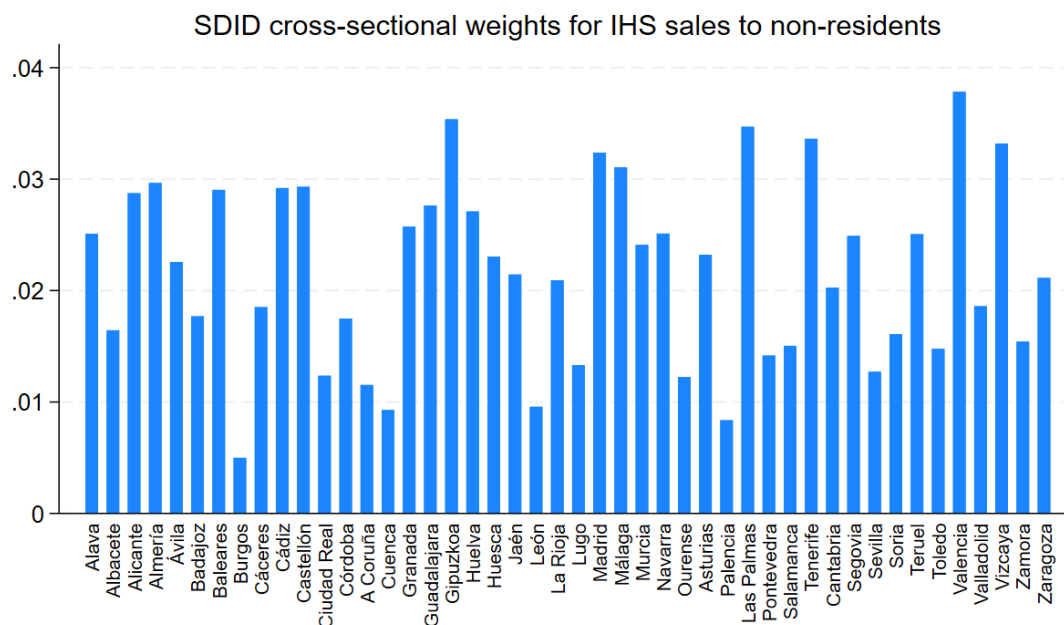


Figure A17. SDID cross-sectional weights for IHS sales to non-residents.

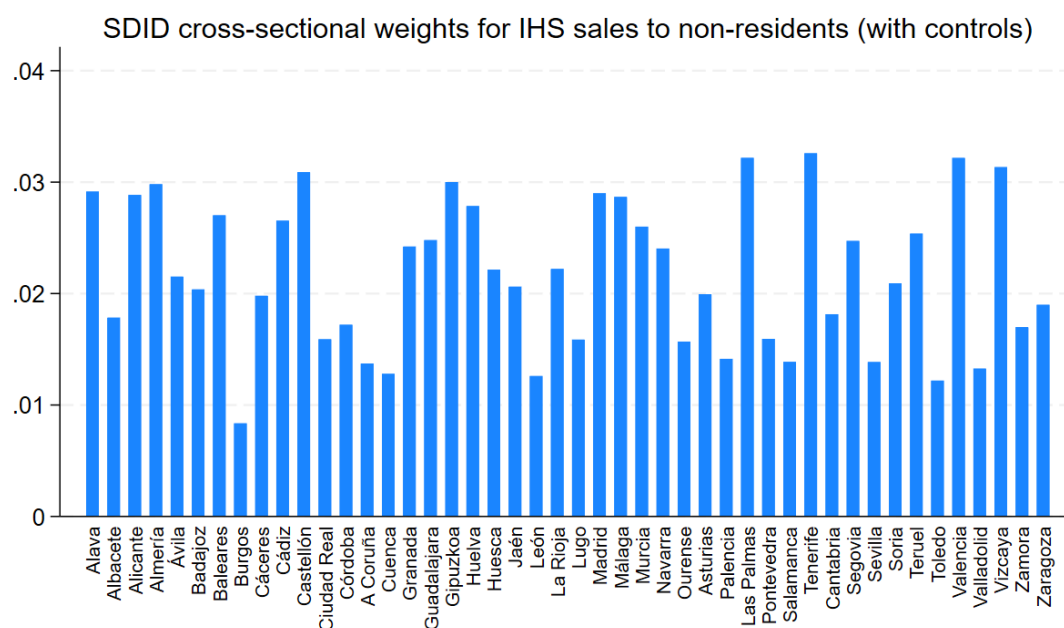


Figure A18. SDID cross-sectional weights for IHS sales to non-residents (with controls).

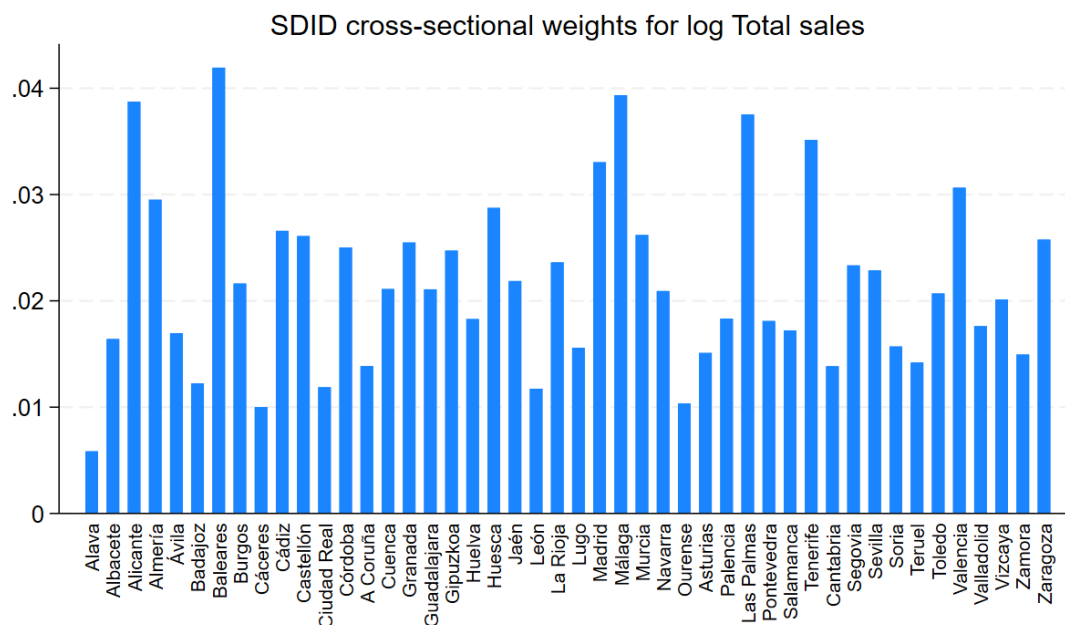


Figure A19. SDID cross-sectional weights for log total sales.

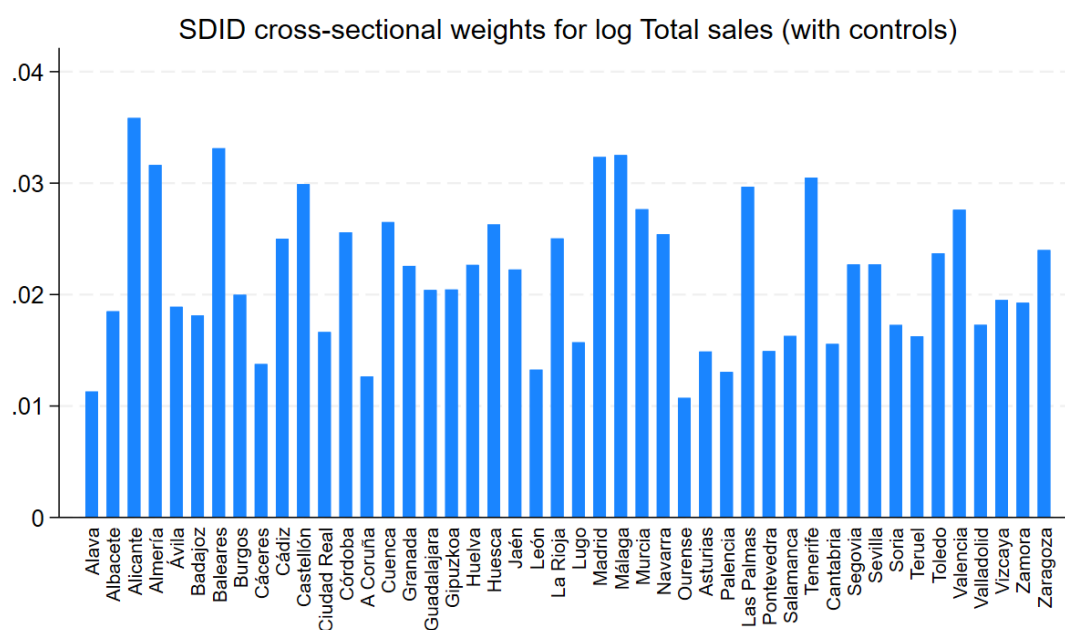


Figure A20. SDID cross-sectional weights for log total sales (with controls).

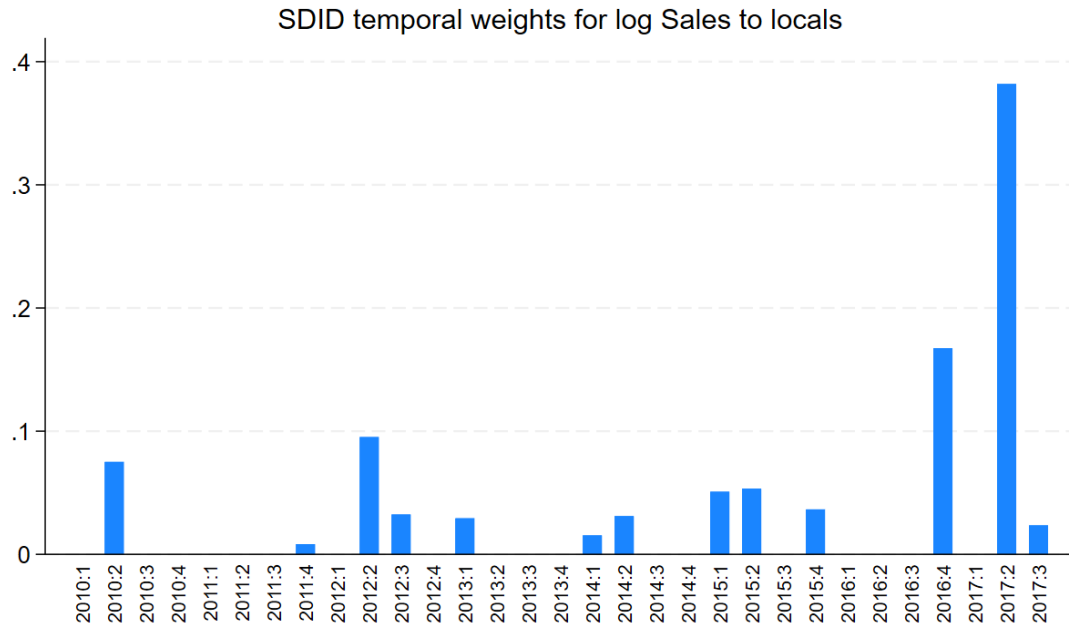


Figure A21. SDID temporal weights for log Sales to locals.

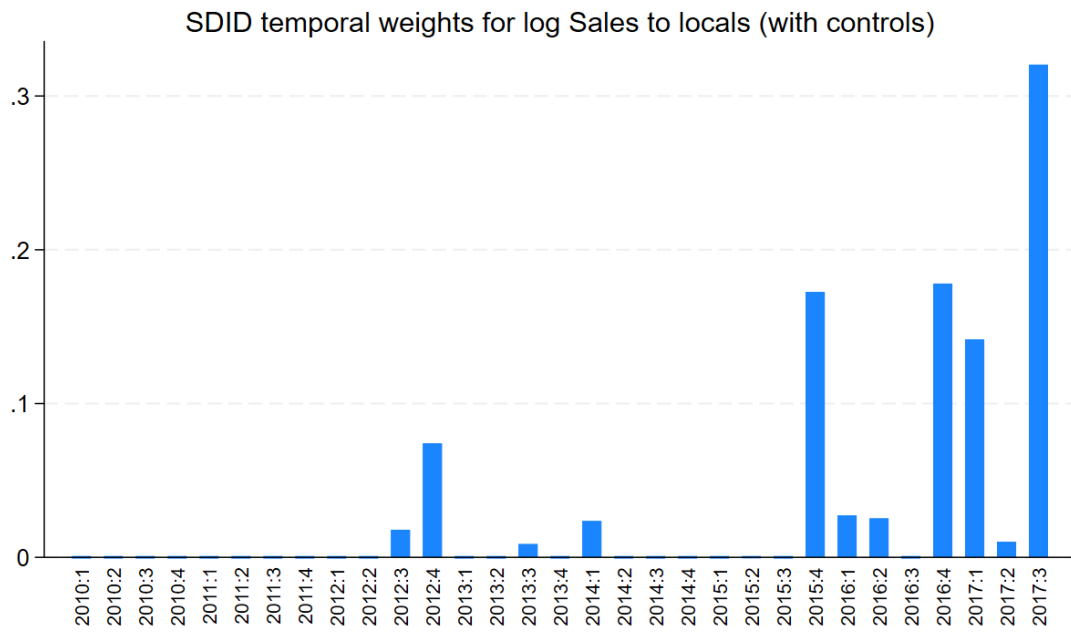


Figure A22. SDID temporal weights for log Sales to locals (with controls).

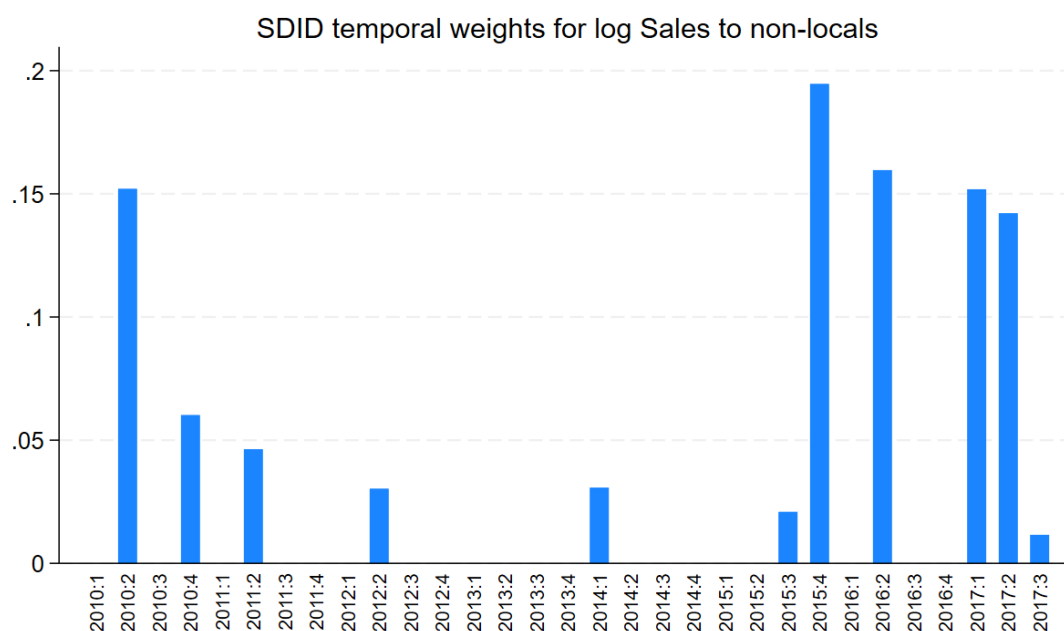


Figure A23. SDID temporal weights for log Sales to non-locals.

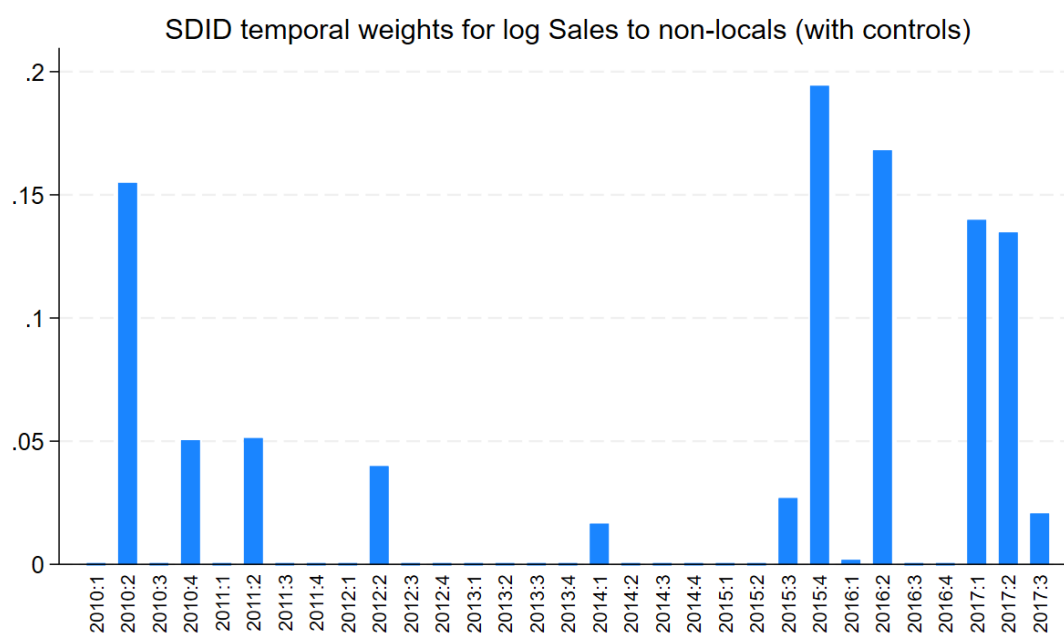


Figure A24. SDID temporal weights for log Sales to non-locals (with controls).

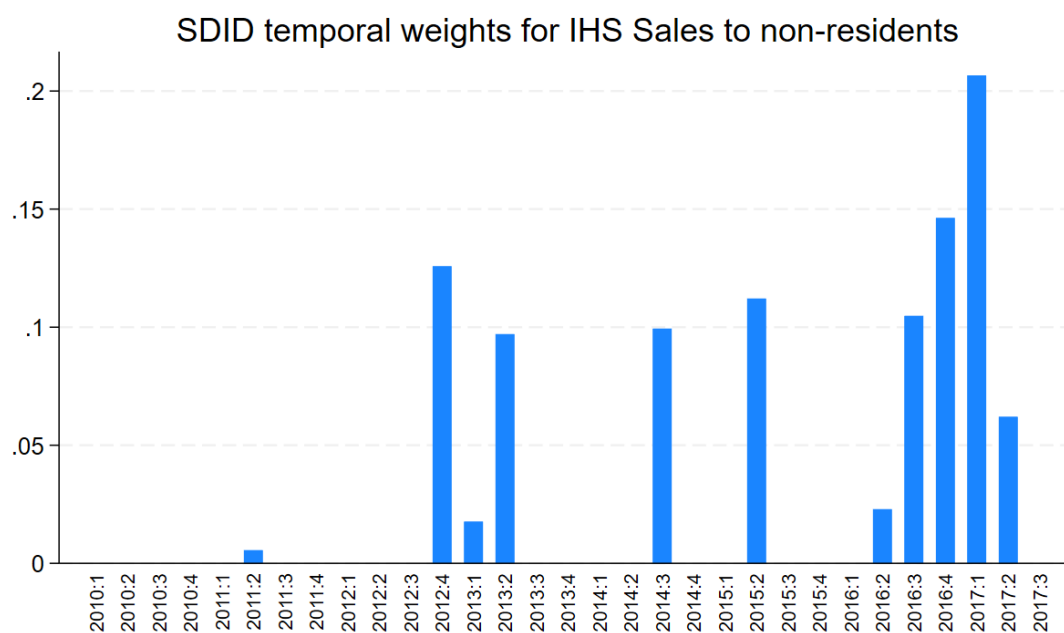


Figure A25. SDID temporal weights for IHS sales to non-residents.

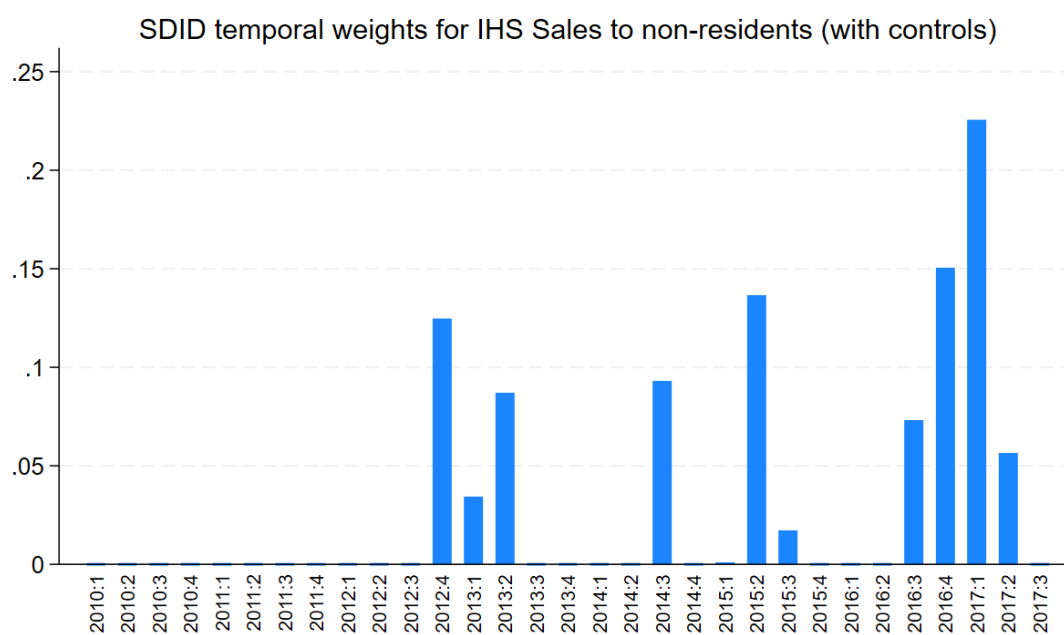


Figure A26. SDID temporal weights for IHS sales to non-residents (with controls).

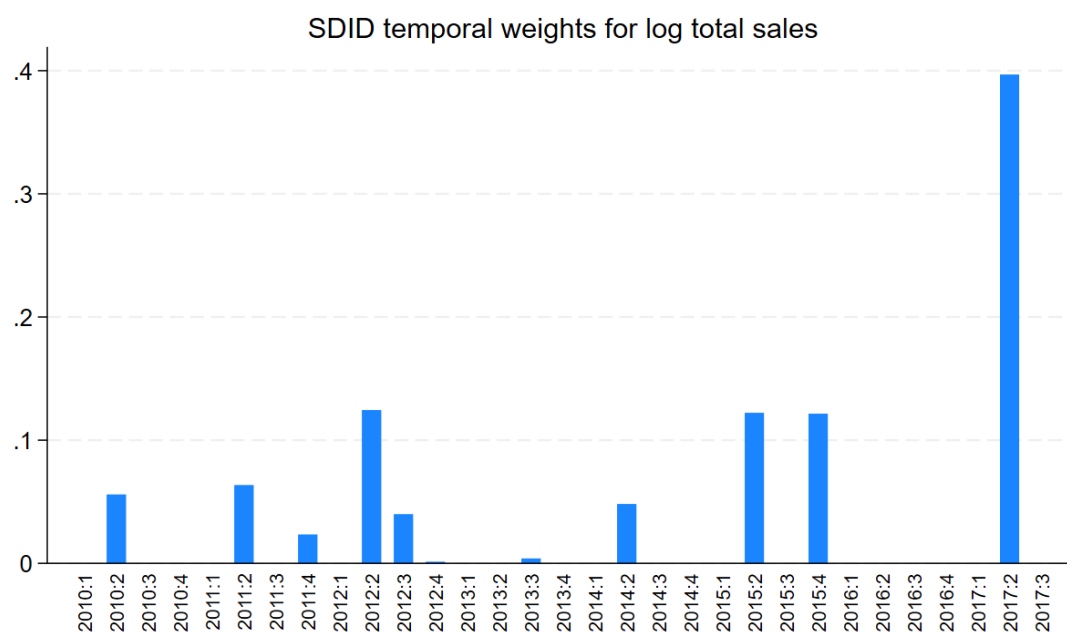


Figure A27. SDID temporal weights for log total sales.

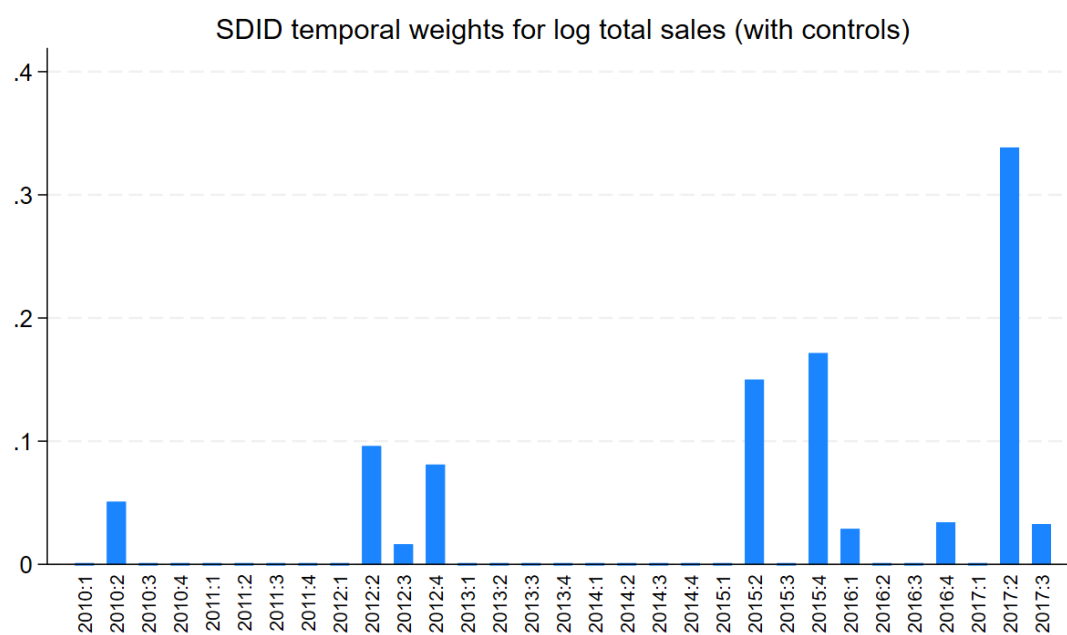


Figure A28. SDID temporal weights for log total sales (with controls).

Table A8. Synthetic difference-in-differences results with projected controls.

Dep. variable	(1) Log Sales to locals	(2) Log Sales to non-locals	(3) IHS Sales to non- residents	(4) Log Total sales
<i>ATT</i>	0.025 (0.034)	0.072 (0.085)	-0.179* (0.090)	0.028 (0.028)
Controls	YES	YES	YES	YES
Period FE	YES	YES	YES	YES
Province FE	YES	YES	YES	YES
Observations	2,000	2,000	2,000	2,000

Bootstrapped standard errors after 500 replications in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A9. Synthetic difference-in-differences results excluding the number of newly built houses completed as a control.

Dep. variable	(1) Log Sales to locals	(2) Log Sales to non-locals	(3) IHS Sales to non- residents	(4) Log Total sales
<i>ATT</i>	-0.035 (0.063)	0.067 (0.072)	-0.290** (0.136)	-0.019 (0.061)
Controls	YES	YES	YES	YES
Period FE	YES	YES	YES	YES
Province FE	YES	YES	YES	YES
Observations	2,000	2,000	2,000	2,000

Bootstrapped standard errors after 500 replications in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A10. Synthetic difference-in-differences results considering additional control variables.

Panel A: Controlling for log of population	(1)	(2)	(3)	(4)
Dep. variable	Log Sales to locals	Log Sales to non-locals	IHS Sales to non-residents	Log Total sales
<i>ATT</i>	-0.035 (0.063)	0.065 (0.066)	-0.302** (0.128)	-0.014 (0.055)
Other controls	YES	YES	YES	YES
Period FE	YES	YES	YES	YES
Province FE	YES	YES	YES	YES
Observations	2,000	2,000	2,000	2,000
Panel B: Controlling for log of foreign population	(1)	(2)	(3)	(4)
Dep. variable	Log Sales to locals	Log Sales to non-locals	IHS Sales to non-residents	Log Total sales
<i>ATT</i>	-0.035 (0.059)	0.065 (0.066)	-0.302** (0.129)	-0.014 (0.054)
Other controls	YES	YES	YES	YES
Period FE	YES	YES	YES	YES
Province FE	YES	YES	YES	YES
Observations	2,000	2,000	2,000	2,000
Panel C: Controlling for share of foreign population	(1)	(2)	(3)	(4)
Dep. variable	Log Sales to locals	Log Sales to non-locals	IHS Sales to non-residents	Log Total sales
<i>ATT</i>	-0.028 (0.058)	0.066 (0.066)	-0.301** (0.128)	-0.007 (0.055)
Other controls	YES	YES	YES	YES
Period FE	YES	YES	YES	YES
Province FE	YES	YES	YES	YES
Observations	2,000	2,000	2,000	2,000
Panel D: Controlling for growth rate of population	(1)	(2)	(3)	(4)
Dep. variable	Log Sales to locals	Log Sales to non-locals	IHS Sales to non-residents	Log Total sales
<i>ATT</i>	-0.045 (0.061)	0.047 (0.071)	-0.328*** (0.112)	-0.019 (0.057)
Other controls	YES	YES	YES	YES
Period FE	YES	YES	YES	YES
Province FE	YES	YES	YES	YES
Observations	2,000	2,000	2,000	2,000

Bootstrapped standard errors after 500 replications in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A11. PSM-DID results.

Dep. variable	(1) Log Sales to locals	(2) Log Sales to non-locals	(3) IHS Sales to non- residents	(4) Log Total sales
<i>ATT</i>	-0.126 (0.216)	0.033 (0.162)	-0.563** (0.248)	-0.157 (0.203)
Control: Before			1,198	
Treated: Before			124	
Control: After			270	
Treated: After			35	
Observations	1,627	1,627	1,627	1,627
R-squared	0.104	0.320	0.260	0.151

Clustered standard errors at the province level in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A12. Synthetic difference-in-differences results for IHS Sales to non-residents, testing potential anticipation effects.

	(1)	(2)	(3)
Dep. variable	IHS Sales to non-residents		
Treatment timing:	2012:4	2014:4	2015:3
<i>ATT</i>	0.198 (0.166)	0.077 (0.166)	0.014 (0.093)
Controls	NO	NO	NO
Period FE	YES	YES	YES
Province FE	YES	YES	YES
Observations	1,550	1,550	1,550

Bootstrapped standard errors after 500 replications in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A13. Synthetic difference-in-differences results for IHS Sales to non-residents, testing potential substitution/spillover effects.

	(1)	(2)	(3)	(4)	(5)	(6)
Dep. variable	IHS Sales to non-residents					
Placebo treated units	Physical neighbour provinces		Mediterranean provinces		Attractive provinces for foreigners	
<i>ATT</i>	0.038 (0.120)	0.007 (0.118)	0.008 (0.093)	0.011 (0.107)	-0.079 (0.105)	-0.083 (0.111)
Controls	NO	YES	NO	YES	NO	YES
Period FE	YES	YES	YES	YES	YES	YES
Province FE	YES	YES	YES	YES	YES	YES
Observations	1,840	1,840	1,840	1,840	1,840	1,840

Bootstrapped standard errors after 500 replications in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Note: The sample of ‘physical neighbour provinces’ considers as treated units the provinces of Castellón, Huesca, Zaragoza and Teruel, and all the rest excluding Catalan provinces as potential controls.

The sample of ‘Mediterranean provinces’ considers as treated units the provinces of Valencia, Castellón, Alicante, Balearic Islands and Murcia, and all the rest excluding Catalan provinces as potential controls.

The sample of ‘Attractive provinces for foreigners’ considers as treated units the provinces of Alicante, Almería, Balearic Islands, Madrid, Málaga, Murcia, Las Palmas, Tenerife and Valencia for sales to non-residents and the provinces of Alicante, Almería, Balearic Islands, Castellón, Granada, Málaga, Murcia, Las Palmas, Tenerife and Valencia for sales to foreigners, and all the rest excluding Catalan provinces as potential controls.