



Correction to: Urban Spatial Structure in Barcelona (1902–2011): Immigration, Spatial Segregation and New Centrality Governance

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The original version of this article unfortunately contains incorrect presentation of Table 2, Appendix 2 Figure 9 and Appendix 3 Table 4.

The corrected Table 2, Appendix 2 Figure 9 and Appendix 3 Table 4 are shown below. The original article has been corrected.

The online version of the original article can be found at <https://doi.org/10.1007/s12061-020-09365-0>

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Table 2 Unbalanced panel (1902-2011)

	Log population density ^a			Log Catalan density ^b			Log Spanish density ^c		
	FE	IV	IV (FE)	FE	IV	IV(FE)	FE	IV	IV
Constant	17.5*** (4.02)	14.8*** (1.18)		-61.4*** (11.05)	13.7*** (1.21)	21.1*** (2.42)	-41.62*** (13.05)		16.41*** (2.21)
Log_Distance_CBD	-1.3*** (0.412)	-0.4*** (0.104)	-1.16*** (0.41)	-1.02** (0.44)	-0.45*** (0.11)	-0.60*** (0.22)	-1.39 (1.086)		-0.39** (0.17)
Log_Distance_Port	0.40* (0.20)	-0.23*** (0.09)	0.37* (0.19)	9.6*** (1.23)	-0.11 (0.11)	-0.83*** (0.24)	7.40*** (1.75)		-0.52*** (0.15)
Log_BusLine_density		0.26*** (0.08)	0.006 (0.12)		0.19**	0.07 (0.15)			-0.18 (0.17)
- Robust Durbin-Wu-Hausman test		36.90***			48.8***				135.08***
Instrument:		Ind_pub_transp_others	Ind_pub_transp_others		Ind_pub_transp_others	Ind_pub_transp_others			Ind_pub_transp_others
Montiel-Pflueger test ($\alpha=5\%$)			43.56			41.63			
TIME DUMMIES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Fixed effects	H-District		H-District	H-District		H-District		H-District	H-District
F-test FE vs OLS	8.4***			11.8***				15.9***	
Errors	Robust	Robust	Robust	Robust	Robust	Robust	Robust	Robust	Robust
R-squared	0.53	0.65	0.46	0.81	0.62	0.46	0.63	0.12	0.12
Obs	114	111	106	93	90	106	84	84	84

Legend: *** 1%, ** 5%, * 10% degree of significance

^aData available: Year(# districts): 1902(10), 1912(10), 1920(10), 1947(10), 1965(12), 1970(12), 1986(10), 1991(10), 2001(10), 2008(10), 2011(10);

^bData available: Year(# districts): 1902(10), 1947(10), 1965(12), 1970(12), 1986(10), 1991(10), 2001(10), 2008(10), 2011(10);

^cData available: Year(# districts): 1947(10), 1965(12), 1970(12), 1986(10), 1991(10), 2001(10), 2008(10), 2011(10);

Table 2 (continued)

	Log Spaniard density ^c		Log Immigrant density ^d		Log high-skilled density ^e		Log illiterate density ^f			
	IV (FE)	FE	IV	IV (FE)	FE	OLS	FE	OLS	FE	
Constant		-22.44 (16.06)	-3.76* (2.15)		-393.23*** (44.45)	9.17*** (2.04)	-30.04** (12.40)	-77.96* (38.84)	1.66 (1.37)	61.60*** (10.36)
Log_Distance_CBD		-1.72* (0.95)	0.73*** (0.18)	0.46 (0.73)	23.16*** (1.89)	-0.91*** (0.21)	4.49*** (1.54)	2.08 (1.64)	0.72*** (0.13)	-6.70*** (1.29)
Log_Distance_Port		8.36*** (1.27)	0.31* (0.16)	-8.84*** (1.89)	25.29*** (3.61)	0.62*** (0.11)	Dropped	8.20** (3.16)	-0.27*** (0.06)	Dropped
Log_BusLine_density		-0.07 (0.10)	1.60*** (0.17)	1.54*** (0.15)		0.73*** (0.13)	0.59*** (0.18)	0.94*** (0.07)	0.568*** (0.15)	
- Robust Durbin-Wu-Hausman test			88.59***			0.67		1.51		
<u>Instrument:</u>										
Ind_pub_transp_others				Ind_pub_transp_others						
Montiel-Pflueger test ($\alpha=5\%$)		43.96		41.38						
TIME DUMMIES		YES	YES	YES	YES	YES	YES	YES	YES	YES
Fixed effects	H-District	H-District	H-District	H-District	H-District	H-District	H-District	H-District	H-District	H-District
F-test FE vs OLS		Robust	Robust	Robust	39.34***	Robust	17.24***	Robust	19.78***	33.50***
Errors		0.60	0.65	0.84	0.91	0.80	0.91	0.96	0.94	0.97
R-squared		77	91	83	50	47	47	50	47	47
Obs										

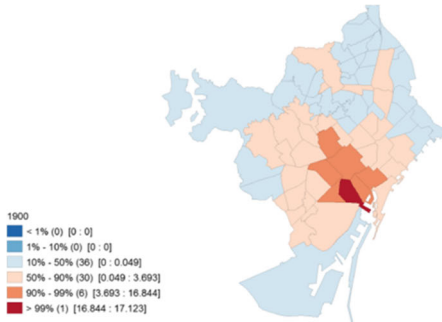
^d Data available: Year(# districts): 1902(10), 1947(10), 1965(12), 1970(12), 1986(10), 1991(10), 2001(10), 2008(10), 2011(10);

^{e,f} Data available: Year(# districts): 1902(10), 1986(10), 1991(10), 2001(10), 2011(10)

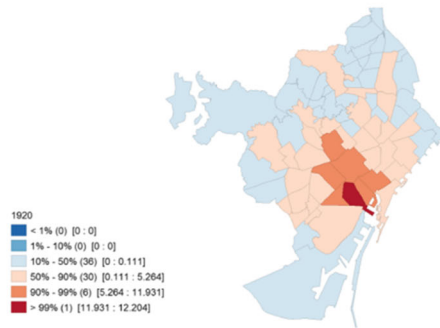
Appendix 2

Stock of dwellings

1900



1920



1940

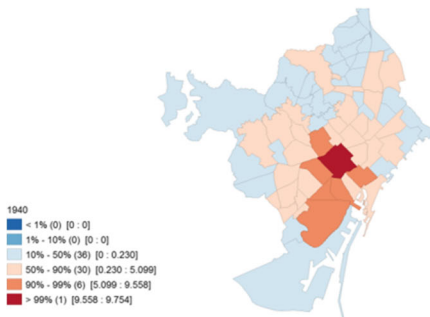
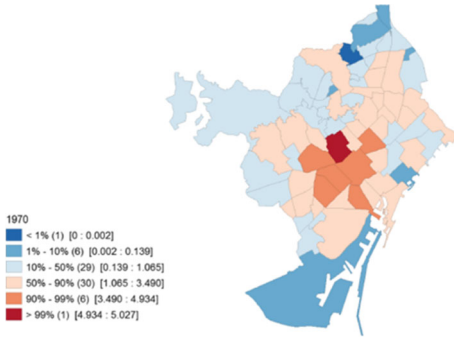
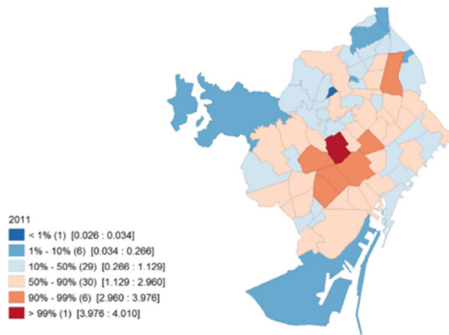


Fig. 9 Percentile spatial distribution of the district-share of stock of dwellings (%) as the ratio between the number of dwellings by district and the total number of dwellings in Barcelona by year. (source: Administrative data at district level for the selected years; authors' elaboration)

1970



2011



Appendix 3

Additional tables

Table 4 Descriptive statistics

	Variables	Mean	Std deviation	Min	Max
1902	Population density	21744.21	19399.42	1691.3	64536.41
	Catalan density	13588.57	12515.07	1345.58	41751.86
	Spanish density	na			
	Immigrant density	399.75	392.82	11.27	1267.46
	# Bus lines per spat. Unit	1.3	1.059	0	3
1912	Population density	21864.14	17764.83	1524.42	58392.27
	# Bus lines per spat. Unit	2.7	1.828	1	6
1920	Population density	25316.15	19708.21	1875.6	64802.38
	# Bus lines per spat. Unit	3.8	1.751	1	6
1947	Population density	32435.3	30459.4	3718.3	105036.2
	Catalan density	20158.54	17862.29	2416.125	61053.34
	Spanish density	11444.96	12143.3	1150.77	42248.57
	Immigrant density	625.29	571.79	95.08	1727.7
	# Bus lines per spat. Unit	9.3	4.595	4	20
1965	Population density	30860.86	24242.79	6244.761	95114.23
	Catalan density	18289.5	13878.42	3866.109	52940.73
	Spanish density	12194.18	10335.82	2122.405	41232.76
	Immigrant density	377.18	264.54	67.7	940.73
	# Bus lines per spat. Unit	15	6.1938	6	29
1970	Population density	29461.22	19413.46	6496.107	78182.12
	Catalan density	16365.44	10277.12	3639.27	40330.82
	Spanish density	10771.99	7963.62	1737.793	32537.72
	Immigrant density	374.44	227.99	80.99	848.06
	# Bus lines per spat. Unit	17.25	6.312	7	31
1986	Population density	26039.04	15926	189.66	52523.81
	Catalan density	17096.18	11019.37	129.569	37517.29
	Spanish density	8340.07	5078.27	51.96	16321.62
	Immigrant density	512.75	311.10	165.87	1140.8
	# Bus lines per spat. Unit	9.71	5.73	1	29
1991	Population density	25056.7	15281.19	225.55	50151.43
	Catalan density	16629.99	10677.62	163.35	35291.36
	Spanish density	7657.69	4673.95	50.14	14912.89
	Immigrant density	643.29	395.73	212.59	1339.73
	# Bus lines per spat. Unit	9.5	6.09	1	30
2001	Population density	23469.06	14988.18	33.954	56885.65
	Catalan density	15191.92	9903.66	25.483	37750.7
	Spanish density	6421.87	4623.88	7.77	20451.48
	Immigrant density	1664.88	1353.04	517.72	4726.00

Table 4 (continued)

	Variables	Mean	Std deviation	Min	Max
2008	# Bus lines per spat. Unit	7.507	4.952	1	28
	Population density	25186.4	15673.6	77.57	59024.3
	Catalan density	14466.7	9225.4	57.97	36253.3
	Spanish density	10719.76	7337.75	19.60	29206.36
	Immigrant density	4472.80	3352.25	1125.03	12283.29
2011	# Bus lines per spat. Unit	8.342	4.969	1	29
	Population density	24956.64	15467.52	74.558	59442.82
	Catalan density	14448.05	9116.32	56.007	35713.85
	Spanish density	5163.304	3582.03	10.361	15455.7
	Immigrant density	4521.75	3113.65	1121.05	11223.9
	# Bus lines per spat. Unit	8.245	4.832	1	29

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