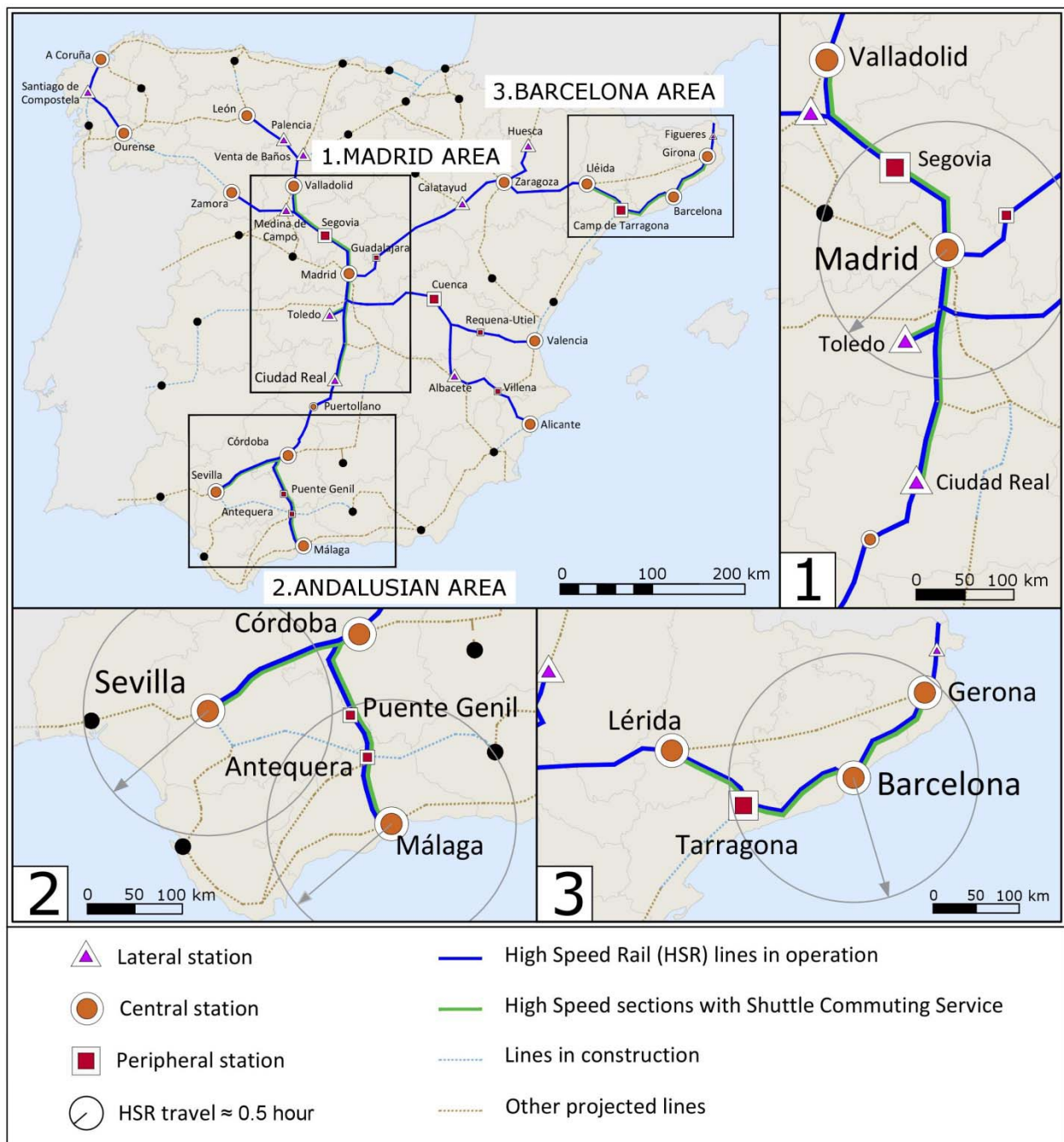


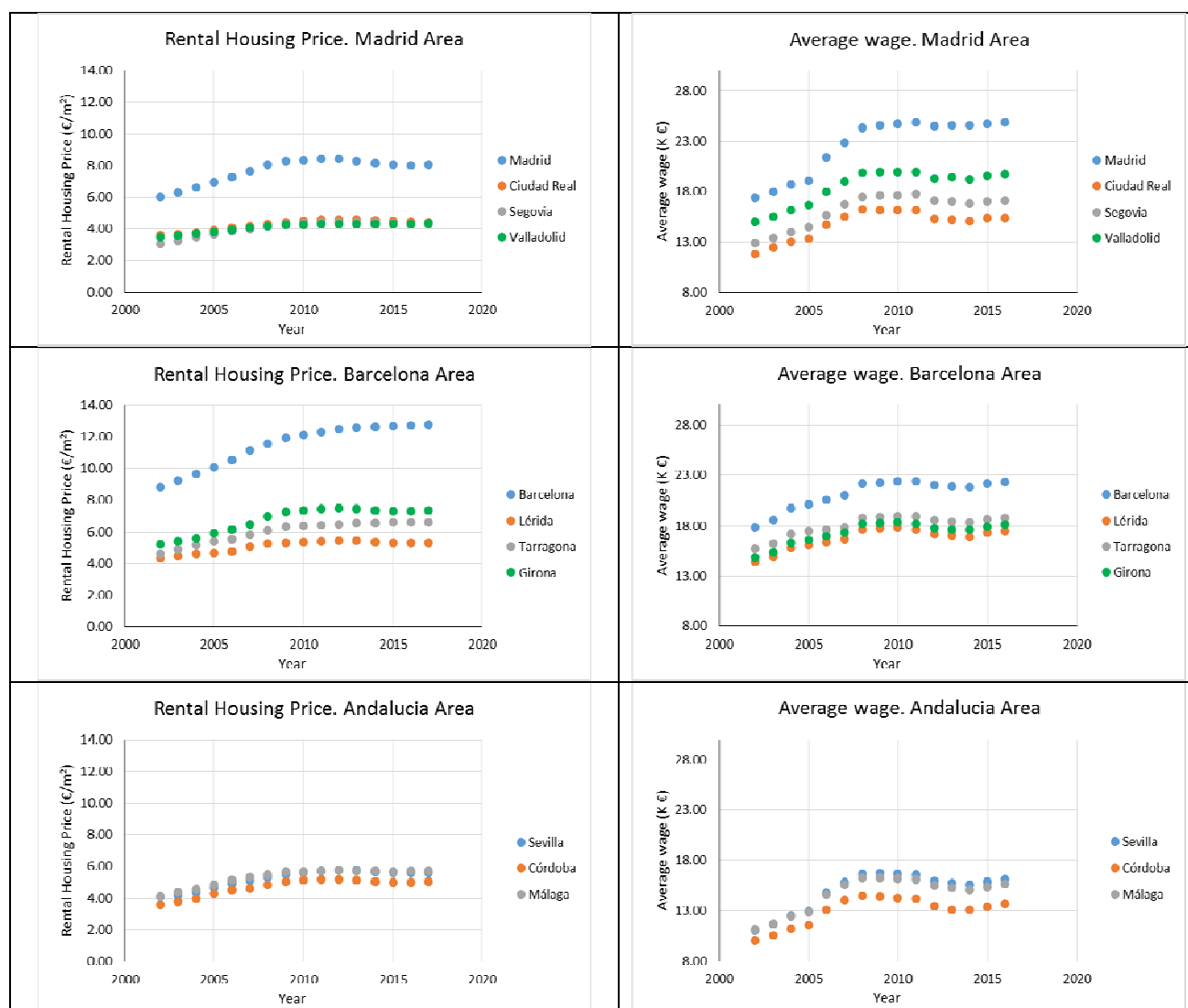
HSR COMMUTING SERVICES							
Origin	Destination (Population)	Distance (Km.)	Opening of service	Station location* (destination)	Travel time (min)	Passengers 2014	Passengers 2015
Madrid	Ciudad Real (74,798)	171	1,992	L	50	696,692	704,634 (+1)
Madrid	Puertollano (52,200)	209	1,992	C	65	242,942	241, 331 (-0.7)
Madrid	Toledo (83,108)	75	2,005	L	30	1,472,768	1,535,008 (+ 4.2)
Madrid	Segovia (55,220)	70	2,008	O	35	779,571	816,297 (+4.7)
Madrid	Valladolid (313,437)	180	2,007	C	56	767,435	854,574 (+11.4)
Seville	Cordoba 328,547	127	2,004	C	45	474,233	493,855 (+4.1)
Cordoba	Malaga (568,030)	296	2,008	C	65	168,982	183,605 (+8.7)
Barcelona	Tarragona (140,323)	98	2,008	O	35	100,988	106,958 (+5.9%)
	Lérida (138,416)	206	2,008	C	70	276,119	270,883 (-1.9%)
	Gerona (96,722)	102	2,013	C	38	422,485	471,471 (11.6%)

C: Central; L: Lateral; O: Outlying (peripheral)

**Table A1.** Spanish HSR commuting services. Source: Observatorio del Ferrocarril en España. 2015

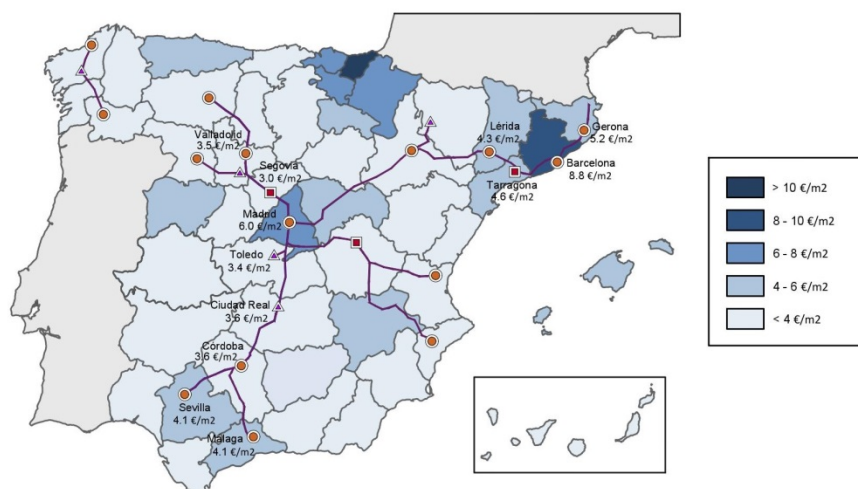


**Figure A1.** Spanish HSR network and main HSR commuting areas

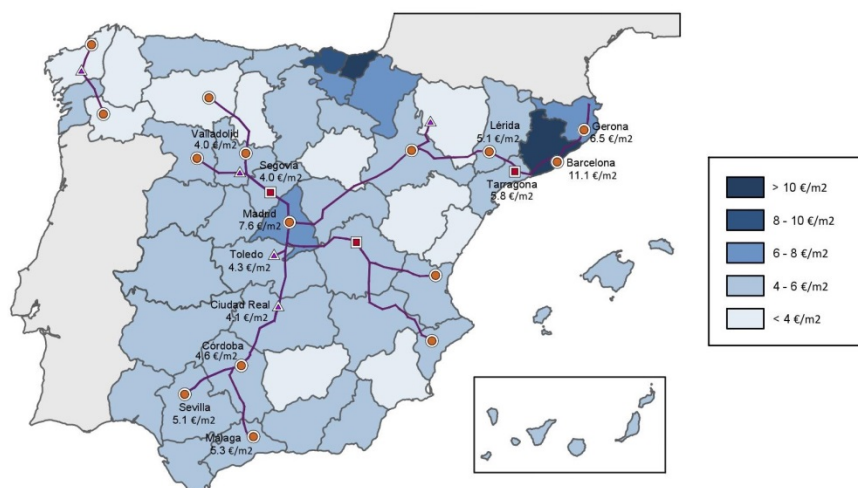


**Figure B1.** Evolution of the regional disparities in wages and rental housing prices (at the provincial level) in the three HSR commuting areas. Sources: Observatorio del Suelo y la Vivienda, Agencia Tributaria.

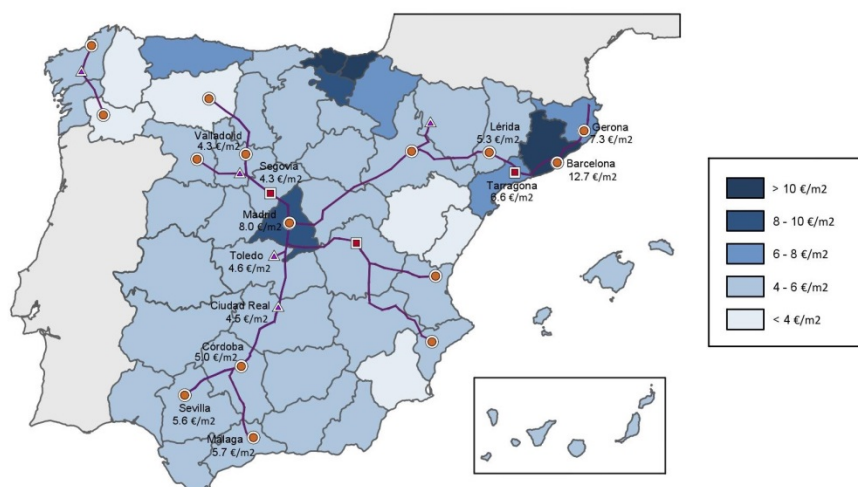
Average renting price per square meter of houses in Spain in 2002



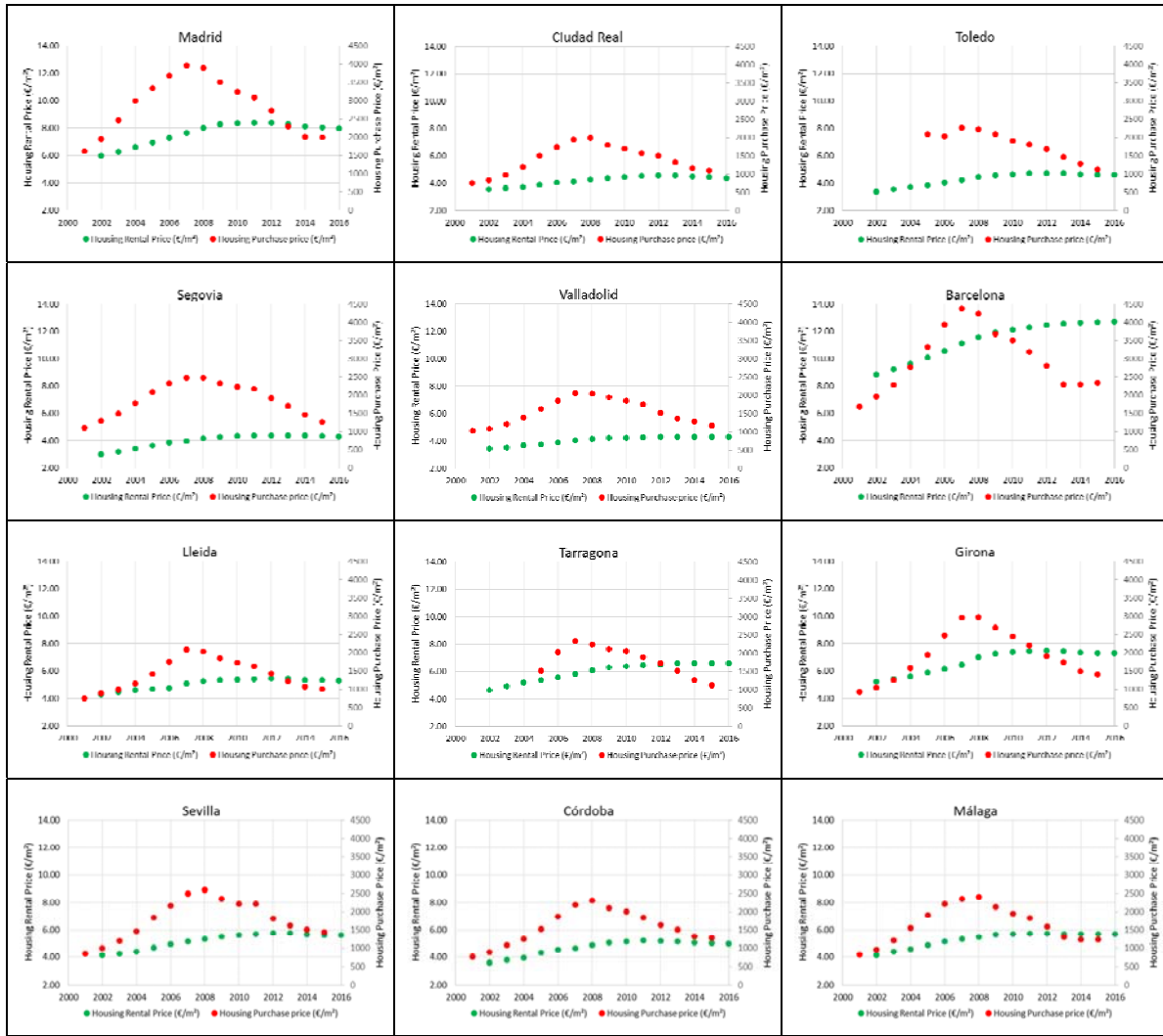
Average renting price per square meter of houses in Spain in 2007



Average renting price per square meter of houses in Spain in 2015



**Figure B2.** Evolution of the housing rental prices at the provincial level (before, during and after the financial recession). Source: Ministerio de Fomento. Observatorio de Vivienda y Suelo.



**Figure B3.** Evolution of Housing prices (euro/m<sup>2</sup>) and Rents (euro/m<sup>2</sup>) at provincial level (Madrid HSR area, Barcelona HSR area and Andalusia HSR area).

<b>Variables</b>	<b>Definition</b>	<b>Mean</b>	<b>S.D.</b>
Contracts <sub>AB</sub>	Number of total contracts in province B of individuals with residence in province A	13,038.323	9,771.149
D <sub>AB</sub>	Distance between the provincial capitals of A and B	114.7115	34.99
Pop B/A	Quotient between the population size of province A (capital) and province B (capital)	10.93	17.33
Wage B/A	Quotient between the average wage in province B and A	1.03	0.26
Rprice B/A	Quotient between private rental prices (per m <sup>2</sup> of rented housing) in B and A	1.16	0.61
Cap B	A dummy variable equal to one for the regional capital	0.54	0.50
HSR	A dummy variable equal to one for the year and province with a HSR service	0.65	0.48
GDP B/A	Quotient between provincial GDP per capita in A and B	1.04	0.31
Loc HSR	A dummy variable equal to one for the year and provinces with a HSR connection between central or lateral station (urban fringe) and zero otherwise	0.54	0.50

**Table C1.** HSR commuting in the functional areas of Madrid, Barcelona and Andalucía (2002-2014). Descriptive statistics of the variables used in the panel regression models 1, 2 and 3 (mean and standard deviation, N=222).

Model 1			
Dependent	Contracts <sub>AB</sub>		
D <sub>AB</sub>	-192.42	***	(38.65)
Pob B/A	-340.48	***	(103.75)
Wage B/A	20,653.28	***	(5,424.31)
HSR	-2,690.31	***	(1,028.54)
Loc HSR	3,021.60	***	(1,088.80)
Cap B	4,369.45		(3,262.75)
Year	71.23		(79.08)
Cons	-127,525.70		(158,137.50)
No. of obs.	222.00		

Model 2			
Dependent	Contracts <sub>AB</sub>		
D <sub>AB</sub>	-161.79	***	(41.32)
Rprice B/A	-8675.10	**	(3,492.52)
Wage B/A	21,387.82	***	(6,118.55)
HSR	-3,136.82	***	(1,018.49)
Loc HSR	3,457.55	***	(1,088.28)
Cap B	4,984.23		(3,765.71)
Year	107.42		(77.94)
Cons	-198,333.00		(155,968.60)
No. of obs.	222.00		

Model 3			
Dependent	Contracts <sub>AB</sub>		
D <sub>AB</sub>	-160.81	***	(42.62)
Rprice B/A	-7,614.63	**	(3000.14)
Wage B/A	23,453.46	***	(3,895.50)
HSR	-3,382.41	***	(961.45)
Loc HSR	3,596.75	***	(1,027.99)
Cap B	5,392.306		(3,839.06)
Year	123.66	*	(72.86)
Cons	-234,811.20		(146,128.20)
No. of obs.	222.00		

Figures in parentheses are standard deviation. \*\*\*, \*\*, \* denote coefficients significant at the 1%, 5% and 10% statistical level respectively.

**Table C2.** Determinants of the output variable (*Contracts<sub>AB</sub>*) in models 1,2 and 3