APPENDIX

TABLES

Table A1. Percent distribution by type of zone, 2000 and 2014

Type	Year	
	2000	2014
Total	51	87
ETDZ	58.82	48.28
EPZ	1.96	3.45
FTZ	9.80	8.05
HTDZ	19.61	18.39
Others	7.84	14.94

Table A2. Summary statistics

Variable	Obs	Mean	Std. Dev.	Min	Max	Source
lnY	1125	22.924	1.920	17.232	28.538	NBS, various years
DUMMYZONES	1125	0.483	0.500	0	1	
NUMBERZONES	1125	1.067	1.744	0	9	
NR_SMALL	1125	0.499	1.126	0	6	Hong Kong Trade Development Council, Guangdong Government prefectures' websites, specific economic zones official websites, Rightsite Asia
NR_MEDIUM_LARGE	1125	0.380	0.631	0	3	
NR_ETDZ	1125	0.537	0.952	0	5	
NR_HTDZ	1125	0.192	0.424	0	2	
NR_OTHER	1125	0.276	0.789	0	4	
lnINVESTMENTS	1125	21.378	1.798	11.002	26.451	NBS, various years
lnENTERPRISES	1125	4.678	1.462	1.099	9.097	
SPTOWNS	1125	2.371	4.707	0	41	Association of Specialized Towns of Guangdong
PRD	1125	0.227	0.419	0	1	Di Tommaso *et al.*, 2013

Table A3. Interquantile regression

	Quantiles	
	Q10	Q25
	Q90	Q75
$DUMMYZONES_{i,t}$	-0.256	-0.132
	(0.108)**	(0.059)**
$NUMBERZONES_{i,t}$	0.09	0.039
	(0.031)***	(0.14)***
$lnINVESTMENTS_{i,t}$	0.091	0.13
	(0.079)	(0.025)***
$lnENTERPRISES_{i,t}$	-0.295	-0.185
	(0.121)**	(0.043)***
$SPTOWNS_{i,t}$	0.002	-0.004
	(0.006)	(0.004)
$PRD_{i,t}$	-0.295	-0.167
	(0.121)**	(0.077)**
Year dummies	Yes	Yes
N	1125	1125
Q10 pseudo-R2	0.705	
Q90 pseudo-R2	0.744	
Q25 pseudo-R2		0.715
Q75 pseudo-R2		0.742

Notes: Bootstrapped standard errors in brackets, 500 replications. Significance: * 10%, ** 5%, *** 1%. Year dummies 2000 to 2014. First column reports the difference between 10th and 90th quantiles, second column reports the difference 25th and the 75th.

Table A4. Quantile Regression – Effect of number of zones by size

Variables	*Quantiles* 10	20	25	30	40	50	60	70	75	80	90
Small zones											
$lnINVESTMENTS_{i,t}$	0.214***	0.265***	0.283***	0.304***	0.302***	0.314***	0.342***	0.366***	0.389***	0.399***	0.311***
	(0.032)	(0.034)	(0.036)	(0.036)	(0.029)	(0.034)	(0.035)	(0.037)	(0.042)	(0.053)	(0.067)
$lnENTERPRISES_{i,t}$	1.032***	0.938***	0.911***	0.896***	0.880***	0.844***	0.808***	0.757***	0.749***	0.736***	0.755***
	(0.039)	(0.035)	(0.037)	(0.037)	(0.030)	(0.034)	(0.034)	(0.037)	(0.043)	(0.052)	(0.068)
$SPTOWNS_{i,t}$	-0.013***	-0.008**	-0.0081**	-0.009***	-0.011***	-0.010***	-0.013***	-0.010***	-0.012***	-0.012***	-0.007
	(0.004)	(0.004)	(0.004)	(0.003)	(0.003)	(0.003)	(0.003)	(0.003)	(0.003)	(0.004)	(0.004)
PRD_i	0.182**	0.251***	0.260***	0.212***	0.247***	0.203***	0.141***	0.106*	0.039	0.001	-0.076
	(0.073)	(0.065)	(0.066)	(0.059)	(0.053)	(0.055)	(0.054)	(0.057)	(0.058)	(0.068)	(0.097)
$SIZE\_SMALL_{i,t}$	0.057***	0.063***	0.053***	0.046***	0.046***	0.069***	0.104***	0.111***	0.102***	0.104***	0.104***
	(0.018)	(0.015)	(0.014)	(0.014)	(0.016)	(0.020)	(0.019)	(0.016)	(0.016)	(0.017)	(0.020)
Const	13.47***	12.95***	12.71***	12.41***	12.64***	12.65***	12.33***	12.19***	11.81***	11.68***	13.83***
	'(0.616)	'(0.662)	'(0.679)	'(0.691)	'(0.573)	'(0.664)	'(0.678)	'(0.719)	'(0.818)	'(1.026)	'(1.309)
Year dummies	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
N	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125
Pseudo-R2	0.702	0.711	0.713	0.714	0.717	0.721	0.728	0.737	0.742	0.745	0.743
Medium and large zones											
$lnINVESTMENTS_{i,t}$	0.202***	0.246***	0.252***	0.278***	0.304***	0.331	0.353***	0.408***	0.435***	0.439***	0.370***
	(0.036)	(0.037)	(0.037)	(0.037)	(0.032)	(0.565)	(0.036)	(0.040)	(0.034)	(0.040)	(0.073)
$lnENTERPRISES_{i,t}$	1.037***	0.959***	0.945***	0.919***	0.894***	0.855***	0.830***	0.767***	0.734***	0.751***	0.752***
	(0.040)	(0.034)	(0.033)	(0.037)	(0.033)	(0.207)	(0.034)	(0.039)	(0.043)	(0.047)	(0.082)
$SPTOWNS_{i,t}$	-0.014**	-0.014**	-0.016***	-0.017***	-0.0179***	-0.016	-0.017***	-0.017***	-0.019***	-0.021***	-0.016***
	(0.004)	(0.003)	(0.003)	(0.004)	(0.004)	(0.013)	(0.004)	(0.004)	(0.003)	(0.004)	(0.005)
PRD_i	0.128**	0.121**	0.127**	0.125**	0.09	0.128*	0.112*	0.065	0.026	-0.080	-0.059
	(0.081)	(0.059)	(0.056)	(0.063)	(0.071)	(0.065)	(0.060)	(0.067)	(0.069)	(0.077)	(0.115)
$SIZE\_MEDIUM\_LARGE_{i,t}$	0.155***	0.152***	0.165***	0.151***	0.133***	0.095	0.081**	0.088**	0.127***	0.137***	0.132**
	(0.045)	(0.038)	(0.039)	(0.040)	(0.038)	(0.303)	(0.037)	(0.038)	(0.038)	(0.036)	(0.056)
Const	13.73***	13.34***	13.31***	13.31***	12.04***	12.23***	12.03***	11.23***	10.86***	10.77***	12.48***
	(0.671)	(0.724)	(0.724)	(0.724)	'(0.578)	(4.54e+14)	(0.702)	'(0.633)	(0.742)	(0.759)	(1.391)
Year dummies	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
N	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125
Pseudo-R2	0.704	0.713	0.714	0.715	0.718	0.721	0.726	0.733	0.74	0.745	0.737

Notes: Bootstrapped standard errors in brackets, 500 replications. Significance: * 10%, ** 5%, *** 1%. Year dummies 2000 to 2014.

Table A5. Quantile Regression – Effect of number of zones by type

Variables	*Quantiles*										
	10	*20*	*25*	*30*	*40*	*50*	*60*	*70*	*75*	*80*	*90*
	ETDZ										
$lnINVESTMENTS_{i,t}$	0.214***	0.277***	0.291***	0.289***	0.312***	0.333***	0.340***	0.377***	0.401***	0.408***	0.312***
	(0.032)	(0.036)	(0.037)	(0.036)	(0.031)	(0.032)	(0.034)	(0.040)	(0.042)	(0.049)	(0.070)
$lnENTERPRISES_{i,t}$	1.030***	0.944***	0.941***	0.928***	0.913***	0.880***	0.853***	0.801***	0.783***	0.778***	0.794***
	(0.034)	(0.036)	(0.035)	(0.037)	(0.035)	(0.032)	(0.035)	(0.039)	(0.040)	(0.047)	(0.068)
$SPTOWNS_{i,t}$	-0.008**	-0.011***	-0.012***	-0.013***	-0.015***	-0.019***	-0.021***	-0.021***	-0.020***	-0.020***	-0.019***
	(0.004)	(0.004)	(0.004)	(0.004)	(0.004)	(0.003)	(0.003)	(0.003)	(0.003)	(0.003)	(0.004)
PRD_i	0.200***	0.219***	0.194***	0.201***	0.164***	0.147***	0.113**	0.076	0.032	-0.022	0.013
	(0.068)	(0.065)	(0.063)	(0.058)	(0.060)	(0.052)	(0.051)	(0.050)	(0.053)	(0.065)	'(0.105)
$NR\_ETDZ_{i,t}$	0.059***	0.063***	0.046**	0.043**	0.038	0.083***	0.110***	0.109***	0.111***	0.110***	0.104***
	(0.019)	(0.018)	(0.018)	(0.019)	(0.025)	(0.026)	(0.023)	(0.019)	(0.018)	(0.018)	(0.025)
Const	13.47***	12.67***	12.44***	12.60***	12.30***	12.26***	12.18***	11.78***	11.44***	11.33***	13.64***
	'(0.609)	'(0.698)	'(0.722)	'(0.684)	'(0.593)	'(0.620)	'(0.642)	'(0.749)	'(0.788)	'(0.939)	'(1.359)
Year dummies	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
N	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125
	HTDZ										
$lnINVESTMENTS_{i,t}$	0.204***	0.242***	0.262***	0.289***	0.303***	0.329***	0.360***	0.403***	0.430***	0.426***	0.352***
	(0.034)	(0.038)	(0.038)	(0.039)	(0.031)	(0.031)	(0.035)	(0.038)	(0.039)	(0.043)	(0.070)
$lnENTERPRISES_{i,t}$	1.016***	0.965***	0.945***	0.905***	0.877***	0.820***	0.789***	0.737***	0.735***	0.758***	0.794***
	(0.038)	(0.038)	(0.037)	(0.039)	(0.036)	(0.031)	(0.034)	(0.038)	(0.042)	(0.052)	(0.083)
$SPTOWNS_{i,t}$	-0.026***	-0.025***	-0.022***	-0.020***	-0.020***	-0.014***	-0.012***	-0.010***	-0.012***	-0.014***	-0.011***
	(0.005)	(0.005)	(0.005)	(0.004)	(0.004)	(0.004)	(0.003)	(0.003)	(0.003)	(0.004)	(0.004)
PRD_i	0.151*	0.129*	0.153**	0.174***	0.175***	0.236***	0.196***	0.117	0.042	-0.053	-0.124
	(0.080)	(0.075)	(0.069)	(0.063)	(0.050)	(0.050)	(0.059)	(0.072)	(0.079)	(0.091)	'(0.122)
$NR\_HTDZ_{i,t}$	0.361***	0.316***	0.283***	0.264***	0.249***	0.224***	0.180***	0.185***	0.176***	0.154**	0.128
	(0.059)	'(0.0509)	(0.049)	(0.048)	(0.043)	(0.047)	(0.055)	(0.062)	(0.066)	(0.067)	(0.085)
Const	13.82***	13.41***	13.09***	12.75***	12.69***	12.41***	12.01***	11.46***	10.96***	11.00***	12.69***
	'(0.653)	'(0.737)	'(0.731)	'(0.744)	'(0.590)	'(0.600)	'(0.692)	'(0.761)	'(0.781)	'(0.831)	'(1.329)
Year dummies	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
N	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125

Table A5. Quantile Regression – Effect of number of zones by type (Dependent variable: logarithm of the industrial output) (cont.d)

	Other zones										
$lnINVESTMENTS_{i,t}$	0.222***	0.262***	0.278***	0.309***	0.301***	0.333***	0.369***	0.404***	0.426***	0.429***	0.351***
	(0.034)	(0.0347)	(0.037)	(0.038)	(0.032)	(0.033)	(0.037)	(0.037)	(0.041)	(0.046)	(0.070)
$lnENTERPRISES_{i,t}$	1.012***	0.956***	0.932***	0.908***	0.895***	0.850***	0.795***	0.743***	0.749***	0.771***	0.791***
	(0.041)	(0.037)	(0.039)	(0.039)	(0.033)	(0.034)	(0.035)	(0.044)	(0.047)	(0.054)	(0.086)
$SPTOWNS_{i,t}$	-0.018***	-0.015***	-0.016***	-0.016***	-0.015***	-0.011***	-0.011***	-0.010***	-0.012***	-0.014***	-0.012***
	(0.005)	(0.005)	(0.005)	(0.005)	(0.004)	(0.005)	(0.003)	(0.004)	(0.004)	(0.004)	(0.005)
PRD_i	0.190*	0.154**	0.198*	0.146**	0.225***	0.163**	0.144***	0.091	0.002	-0.092	-0.099
	(0.078)	(0.069)	(0.066)	(0.063)	(0.060)	(0.057)	(0.056)	(0.066)	(0.078)	(0.087)	(0.137)
$NR\_OTHERS_{i,t}$	0.095***	0.079***	0.068**	0.071***	0.050**	0.053***	0.075***	0.077***	0.062***	0.045***	0.041
	(0.030)	(0.028)	(0.027)	(0.025)	(0.024)	(0.024)	(0.023)	(0.019)	(0.020)	(0.022)	(0.043)
Const	13.40***	12.60***	12.79***	12.29***	12.62***	12.22***	11.78***	11.39***	10.98***	10.86***	12.83***
	'(0.661)	'(0.659)	(0.709)	(0.721)	(0.610)	(0.631)	(0.712)	(0.722)	(0.791)	(0.849)	(1.339)
Year dummies	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
N	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125

Notes: Bootstrapped standard errors in brackets, 500 replications. Significance: * 10%, ** 5%, *** 1%. Year dummies 2000 to 2014.

Table A6. Interquantile Regression – Number of zones by size and type

Variables	Quantiles	Pseudo-R2	Difference	Standard Error
Size				
$NR\_SMALL_{i,t}$	Q70	0.737	0.065***	(0.016)
	Q30	0.714		
$NR\_MEDIUM\_LARGE_{i,t}$	Q60	0.724	-0.083**	(0.038)
	Q25	0.714		
Type				
$NR\_ETDZ_{i,t}$	Q60	0.727	0.072***	(0.021)
	Q40	0.716		
$NR\_HTDZ_{i,t}$	Q90	0.737	-0.234**	(0.094)
	Q10	0.707		
$NR\_OTHERS_{i,t}$	Q90	0.736	-0.054	(0.056)
	Q10	0.702		

Notes: Bootstrapped standard errors in brackets, 500 replications. Significance: * 10%, ** 5%, *** 1%. Year dummies 2000 to 2014.

Table A7. Measuring spatial autocorrelation:

Moran's I 2000-2014

Year	Logarithm of the industrial output
2000	0.283***
2001	0.280***
2002	0.276***
2003	0.148**
2004	0.126**
2005	0.118**
2006	0.115*
2007	0.123**
2008	0.137**
2009	0.162**
2010	0.170**
2011	0.181***
2012	0.156**
2013	0.142**
2014	0.146**

Notes: * significant at 10%, ** significant at 5% and *** significant at 1%.

FIGURES

Figure A1. Pre- and post-treatment trends of industrial output for a sub-sample of counties and districts (million yuan)

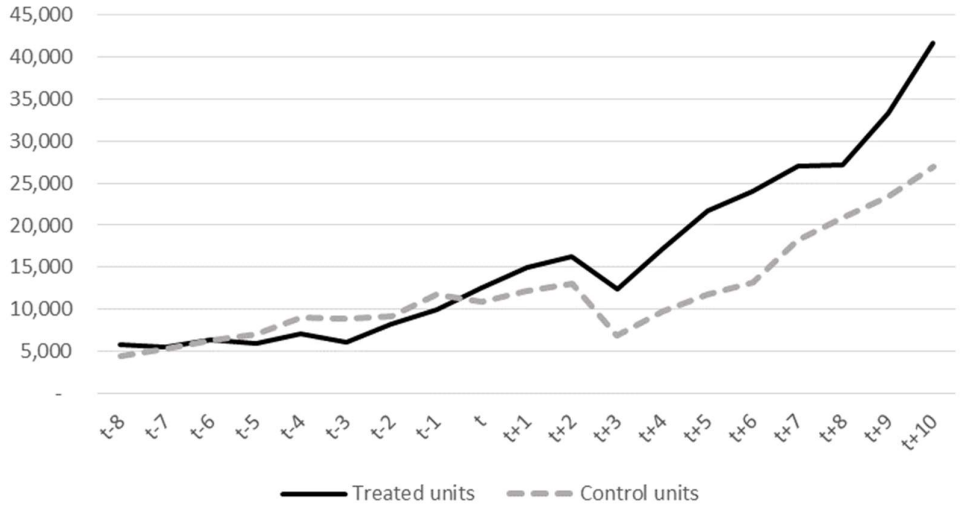
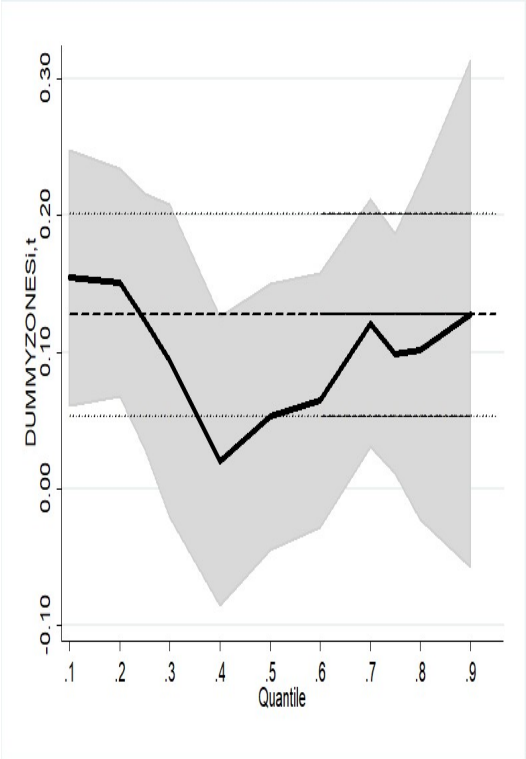


Figure A2. Effect of $DUMMYZONES_{i,t}$ and $NUMBERZONES_{i,t}$ across the distribution of industrial output

$DUMMYZONES_{i,t}$

(panel a)



$NUMBERZONES_{i,t}$

(panel b)

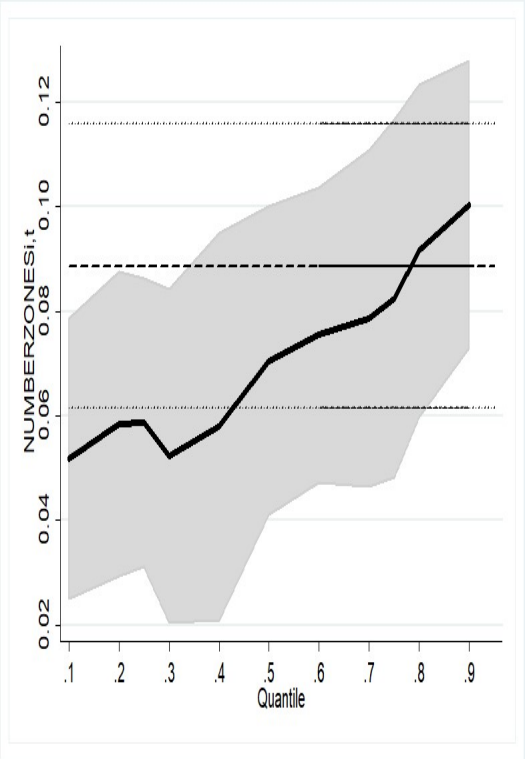


Figure A3. Number of zones in counties by quantile in 2000 and in 2014 (source: authors' elaboration).