

Sectoral Diversity and Local Employment Growth in France

Mounir Amdaoud and Nadine Levratto

Online Appendix

Table S1 – Correlation matrix

2004	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1) Related variety	1.000							
(2) Unrelated variety	0.598***	1.000						
(3) High-tech related variety	0.367***	0.560***	1.000					
(4) Low-and medium-tech related variety	0.977***	0.509***	0.167***	1.000				
(5) High-tech unrelated variety	0.163***	0.548***	0.823***	-0.015	1.000			
(6) Low-and medium-tech unrelated variety	0.539***	0.602***	-0.151***	0.605***	-0.334***	1.000		
(7) Density	0.503***	0.485***	0.475***	0.422***	0.398***	0.183***	1.000	
(8) Share of highly-skilled white-collars	0.374***	0.293***	0.423***	0.296***	0.370***	-0.006	0.631***	1.000
2008	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1) Related variety	1.000							
(2) Unrelated variety	0.572***	1.000						
(3) High-tech related variety	0.365***	0.612***	1.000					
(4) Low-and medium-tech related variety	0.974***	0.461***	0.150***	1.000				
(5) High-tech unrelated variety	0.096*	0.571***	0.805***	-0.094	1.000			
(6) Low-and medium-tech unrelated variety	0.538***	0.509***	-0.167***	0.611***	-0.415***	1.000		
(7) Density	0.472***	0.478***	0.468***	0.386***	0.388***	0.127**	1.000	
(8) Share of highly-skilled white-collars	0.323***	0.364***	0.486***	0.223***	0.425***	-0.037	0.662***	1.000
2011	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1) Related variety	1.000							
(2) Unrelated variety	0.577***	1.000						
(3) High-tech related variety	0.384***	0.634***	1.000					
(4) Low-and medium-tech related variety	0.979***	0.475***	0.194***	1.000				
(5) High-tech unrelated variety	0.087	0.570***	0.797***	-0.082	1.000			
(6) Low-and medium-tech unrelated variety	0.552***	0.512***	-0.132**	0.614***	-0.413***	1.000		
(7) Density	0.463***	0.480***	0.463***	0.390***	0.382***	0.136**	1.000	
(8) Share of highly-skilled white-collars	0.340***	0.416***	0.497***	0.250***	0.438***	0.009	0.697***	1.000

Note: ***, **, * = significance at 1%, 5% and 10%, respectively.

Source: INSEE, Clap 2004-2015. Authors' calculation.

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Table S2 – Employment growth in 2004-2008 using square distance neighbourhood matrix

Dep. var.:	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Local employment growth 2004-2008				(rural areas)	(urban areas)	(without IDF region)
Characteristics of the area in 2004:						
Related variety	0.048*** (0.013)	0.041*** (0.014)		0.080*** (0.030)	0.031** (0.013)	0.052*** (0.014)
Unrelated variety	-0.015 (0.017)	-0.018 (0.017)		-0.142*** (0.038)	0.030* (0.017)	-0.025 (0.017)
Density		-0.014*** (0.005)				
Share of highly-skilled white-collars		0.727*** (0.120)				
High-tech related variety			0.209** (0.095)			
Low-and medium-tech related variety			0.045*** (0.015)			
High-tech unrelated variety			-0.065** (0.028)			
Low-and medium-tech unrelated variety			-0.018 (0.019)			
Characteristics of the neighbourhood areas in 2004:						
Related variety	0.017 (0.023)	0.010 (0.023)		-0.055 (0.057)	0.046* (0.024)	0.041 (0.026)
Unrelated variety	-0.063*** (0.024)	-0.058** (0.024)		-0.020 (0.060)	-0.072*** (0.024)	-0.074*** (0.027)
Density		0.012* (0.007)				
Share of highly-skilled white-collars		-0.519*** (0.189)				
High-tech related variety			0.100 (0.199)			
Low-and medium-tech related variety			0.043 (0.028)			
High-tech unrelated variety			-0.086* (0.052)			
Low-and medium-tech unrelated variety			-0.080** (0.032)			
Constant	0.266*** (0.091)	0.254** (0.102)	0.331** (0.148)	0.733*** (0.249)	0.0727 (0.112)	0.316*** (0.120)
lambda	0.298*** (0.076)	0.339*** (0.0729)	0.292*** (0.0765)	0.585*** (0.179)	0.223** (0.104)	0.314*** (0.078)
Observations	304	304	304	76	228	285
Moran's I	6.423***	6.725***	6.395***			
R ²	0.130	0.204	0.136	0.312	0.114	0.121
Likelihood	489.161	506.454	490.736	106.177	414.152	458.862
Prob > chi2	0.000	0.000	0.000	0.000	0.000	0.000

Notes: Standard errors are shown in parentheses. ***, **, * = significance at 1%, 5% and 10%, respectively.

Source: INSEE, Clap 2004-2015. Authors' calculation.

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Table S3 – Employment growth in 2008-2012 using square distance neighbourhood matrix

Dep. var.:	Model 1	Model 2	Model 3	Model 4 (rural areas)	Model 5 (urban areas)	Model 6 (without IDF region)
Local employment growth 2008-2012						
Characteristics of the area in 2008:						
Related variety	0.012 (0.010)	0.008 (0.010)		0.000 (0.020)	0.015 (0.012)	0.013 (0.010)
Unrelated variety	0.001 (0.0118)	-0.007 (0.012)		-0.0581** (0.027)	0.0150 (0.013)	-0.003 (0.012)
Density		0.002 (0.003)				
Share of highly-skilled white-collars		0.132 (0.081)				
High-tech related variety			0.014 (0.067)			
Low-and medium-tech related variety			0.009 (0.012)			
High-tech unrelated variety			-0.002 (0.019)			
Low-and medium-tech unrelated variety			0.007 (0.015)			
Characteristics of the neighbourhood areas in 2008:						
Related variety	0.075*** (0.021)	0.078*** (0.023)		0.031 (0.040)	0.073*** (0.022)	0.068*** (0.022)
Unrelated variety	-0.081*** (0.022)	-0.074*** (0.0223)		-0.060 (0.042)	-0.080*** (0.022)	-0.075*** (0.022)
Density		-0.006 (0.006)				
Share of highly-skilled white-collars		0.002 (0.172)				
High-tech related variety			0.150 (0.148)			
Low-and medium-tech related variety			0.060** (0.024)			
High-tech unrelated variety			-0.104*** (0.039)			
Low-and medium-tech unrelated variety			-0.056** (0.028)			
Constant	0.203* (0.106)	0.203* (0.116)	0.099 (0.141)	0.487*** (0.183)	0.127 (0.108)	0.202* (0.107)
lambda	0.480*** (0.064)	0.479*** (0.064)	0.475*** (0.064)	0.614*** (0.163)	0.409*** (0.091)	0.495*** (0.065)
Observations	304	304	304	76	228	285
Moran's I	8.817***	9.093***	8.781***			
R ²	0.109	0.126	0.115	0.262	0.100	0.102
Likelihood	620.466	623.317	621.005	144.581	478.601	586.317
Prob > chi2	0.001	0.002	0.013	0.020	0.000	0.005

Notes: Standard errors are shown in parentheses. ***, **, * = significance at 1%, 5% and 10%, respectively.

Source: INSEE, Clap 2004-2015. Authors' calculation.

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Table S4 – Employment growth in 2011-2015 using square distance neighbourhood matrix

Dep. var.:	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Local employment growth 2011-2015				(rural areas)	(urban areas)	(without IDF region)
Characteristics of the area in 2011:						
Related variety	0.019** (0.009)	0.016* (0.009)		-0.001 (0.018)	0.028*** (0.010)	0.015* (0.009)
Unrelated variety	0.008 (0.011)	-0.002 (0.011)		-0.010 (0.026)	0.006 (0.012)	0.009 (0.011)
Density		-0.001 (0.003)				
Share of highly-skilled white-collars		0.194*** (0.07)				
High-tech related variety			-0.057 (0.064)			
Low-and medium-tech related variety			0.027*** (0.010)			
High-tech unrelated variety			0.027 (0.017)			
Low-and medium-tech unrelated variety			0.000 (0.013)			
Characteristics of the neighbourhood areas in 2011:						
Related variety	0.050*** (0.017)	0.042** (0.018)		0.044 (0.036)	0.056*** (0.019)	0.054*** (0.018)
Unrelated variety	-0.043** (0.019)	-0.043** (0.019)		-0.063* (0.038)	-0.047** (0.020)	-0.047** (0.019)
Density		-0.002 (0.005)				
Share of highly-skilled white-collars		0.190 (0.138)				
High-tech related variety			0.017 (0.139)			
Low-and medium-tech related variety			0.052*** (0.020)			
High-tech unrelated variety			-0.035 (0.033)			
Low-and medium-tech unrelated variety			-0.044* (0.025)			
Constant	0.027 (0.087)	0.066 (0.092)	0.041 (0.119)	0.255* (0.151)	0.026 (0.098)	0.039 (0.087)
lambda	0.371*** (0.071)	0.361*** (0.072)	0.374*** (0.0710)	0.324* (0.197)	0.405*** (0.092)	0.368*** (0.073)
Observations	304	304	304	76	228	285
Moran's I	6.525***	6.087***	6.558***			
R ²	0.096	0.134	0.101	0.111	0.110	0.100
Likelihood	659.662	665.9991	660.785	151.868	512.037	619.564
Prob > chi2	0.002	0.000	0.012	0.280	0.000	0.003

Notes: Standard errors are shown in parentheses. ***, **, * = significance at 1%, 5% and 10% , respectively.

Source: INSEE, Clap 2004-2015. Author's Calculation.