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Urban v. Rural Variation In Social Capital

Evidence from Belgium & Spain

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This presentation

- ▶ Theoretical framework
 - Our conceptualization of SC
 - Urban-rural contrast as constraint and opportunity
- ▶ Methods
- ▶ Some results and early conclusions



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Social Capital

- ▶ Bourdieu, Lin, ...: (not Putnam, Fukuyama, ...)
“Social Capital as a form of Capital”
 - ▶ Resources
 - ▶ money, goods, time, information, ...
 - ▶ Invested
 - ▶ put at disposal of others
 - ▶ intention: return
 - ▶ In Social Relationships



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Literature: urban influence on social relations

- ▶ Erosion
- ▶ Change
- ▶ Composition effect
- ▶ No effect



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(1) City life erodes SC

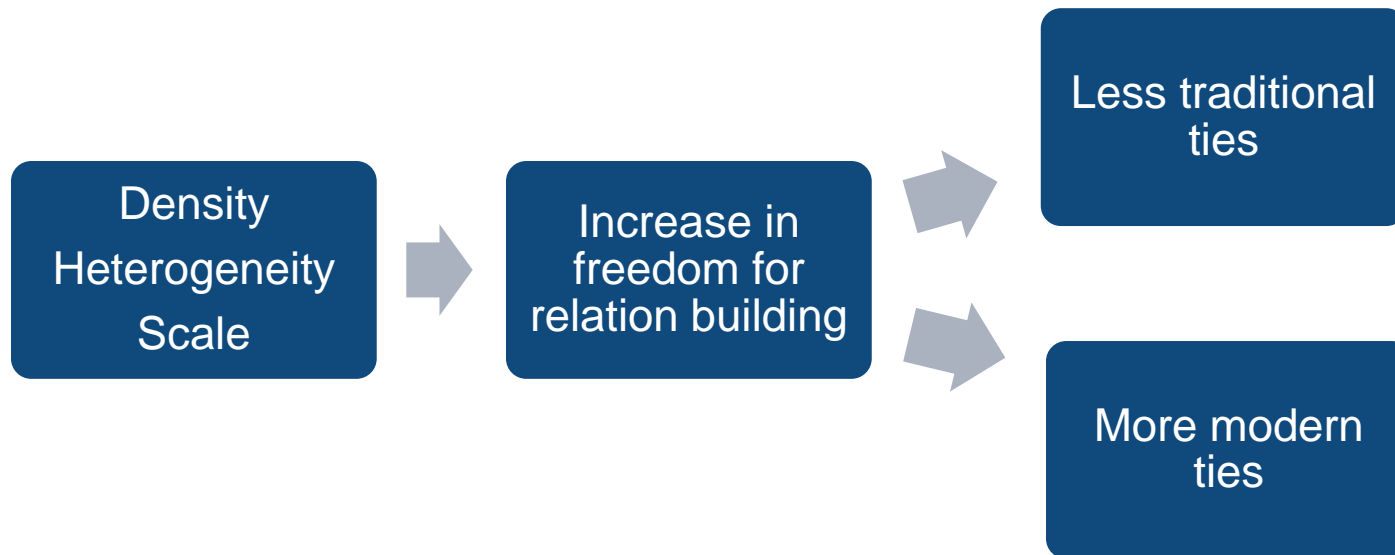




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(2) City life changes SC






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(2) City life changes SC

Less traditional ties / More modern ties

- 
- (1) More SC friends and acquaintances., less from family
 - (2) More SC for well-off, less for less well-off
 - (3) More SC for everybody (self-chosen ties = better ties)



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(3) City-life attracts other people

- ▶ younger, wealthier, ...
- ▶ compositional: disappear after control individual level variables



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(4) City-life = Rural Life

- ▶ Never has been different
- ▶ Countryside is urbanized
 - ▶ Transportation
 - ▶ Communication
 - ▶ Devision of labour

-> Attenuation of rural 'way of life' (Pahl)



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Methods

- ▶ Social Capital Measurement:
 - ▶ Position Generator (Nan Lin)
 - ▶ “do you know a doctor?”
 - ▶ Resource Generator (Van der Gaag)
 - ▶ “do you know someone who can give medical advice?”



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Data & Analysis

▶ Student Data

- ▶ 2400 Belgian students
- ▶ 1850 Spanish students

▶ Multilevel Analysis

- ▶ 190 municipalities in Belgium
- ▶ ??? In Spain



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Urban Zones

Urban Living Area	<ul style="list-style-type: none">• Urban zone• Commuters's Living Zone
Urban zone	<ul style="list-style-type: none">• Agglomeration• Suburban zone
Agglomeration	<ul style="list-style-type: none">• Nuclear City• City outskirts
Nuclear City	<ul style="list-style-type: none">• City center• Densly populated Neighbourhoods



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Average Network Status Entire Network - Belgium



	0-model			Model1			Model2			Model3			Model4		
	Random Intercept			Effect of Space			Controll 2nd Level			Compositional Effects			Interaction Effect		
	Parameter	SD/SE	p	Parameter	SD/SE	p	Parameter	SD/SE	p	Parameter	SD/SE	p	Parameter	SD/SE	p
FIXED^a															
<i>Intercept</i>	49.26	0.09	0.000	50.01	0.16	0.000	49.97	0.16	0.000	50.23	0.23	0.000	50.21	0.23	0.000
<i>Sex</i>										-0.28	0.12	0.022	-0.27	0.12	0.025
<i>Age</i>										0.25	0.03	0.000	0.25	0.03	0.000
<i>Origin</i>										-0.10	0.19	0.594	-0.12	0.19	0.534
<i>Residence</i>										0.29	0.14	0.041	0.30	0.14	0.035
<i>Status Parents</i>										0.04	0.00	0.000	0.05	0.01	0.000
<i>Education Mother</i>															
No secondary										-1.65	0.30	0.000	-1.64	0.30	0.000
Only secondary										-0.80	0.19	0.000	-0.81	0.20	0.000
Higher = reference															
<i>Space</i>															
Central Aggl. = reference															
Suburban municipality				-0.69	0.27	0.010	-0.95	0.26	0.001	-0.77	0.24	0.002	-0.73	0.24	0.003
Commuters' municipality				-0.86	0.22	0.000	-0.89	0.23	0.000	-0.67	0.22	0.003	-0.65	0.21	0.003
Rural municipality				-1.05	0.22	0.000	-0.77	0.24	0.002	-0.77	0.21	0.001	-0.75	0.21	0.001
<i>% non-Belgians</i>							-0.71	2.38	0.767	-2.39	2.12	0.262	-2.38	2.17	0.275
<i>Average Fiscale Income (€ 1000)</i>							0.24	0.05	0.000	0.10	0.05	0.031	0.10	0.05	0.026
<i>Space*Status Parents</i>															
Suburban zone													0.00	0.01	0.914
Commuters' zone													-0.01	0.01	0.550
Rural zone													-0.01	0.01	0.406
RANDOM^a															
σ^2_r	9.71	3.12		9.72	3.12		9.70	3.11		8.64	2.94		8.62	2.94	
σ^2_{u0}	0.38	0.62	0.000	0.25	0.50	0.001	0.18	0.42	0.005	0.09	0.30	0.088	0.00	0.29	0.237
σ^2_{u5}													0.09	0.01	0.290
ρ	3.77%			2.51%			1.82%			1.00%			1.00%		
MODEL FIT^b															
<i>Deviance</i>	11982.15			11962.27			11945.41			11327.57			11325.53		
<i>n° estimated parameters</i>	3			6			8			15			20		
χ^2				19.88		0.000	16.86		0.000	617.84		0.000	2.04		0.844

^aEstimation Procedure = Restricted Maximum Likelihood

^bEstimation Procedure = Full Maximum Likelihood



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Average Network Status Acquaintances - Belgium



	0-model Random Intercept			Model1 Effect of Space			Model2 Controll 2nd Level			Model3 Compositional Effects			Model4 Interaction Effect		
	Parameter	SD/SE	p	Parameter	SD/SE	p	Parameter	SD/SE	p	Parameter	SD/SE	p	Parameter	SD/SE	p
FIXED^a															
<i>Intercept</i>	47.74	0.12	0.000	48.16	0.16	0.000	48.28	0.19	0.000	48.54	0.34	0.000	48.54	0.34	0.000
<i>Sex</i>										0.22	0.20	0.262	0.22	0.20	0.271
<i>Age</i>										0.21	0.04	0.000	0.21	0.04	0.000
<i>Origin</i>										-0.33	0.36	0.357	-0.31	0.36	0.390
<i>Residence</i>										0.20	0.24	0.407	0.21	0.24	0.390
<i>Status Parents</i>										0.01	0.01	0.133	0.00	0.01	0.924
<i>Education Mother</i>															
No secondary										-1.00	0.50	0.047	-1.02	0.5027	0.042
Only secondary										-0.40	0.25	0.104	-0.39	0.25	0.112
Higher = reference															
<i>Space</i>															
Central Aggl. = reference															
Suburban municipality				-0.47	0.34	0.164	-0.82	0.36	0.024	-0.76	0.39	0.053	-0.78	0.40	0.052
Commuters' municipality				-0.52	0.27	0.055	-0.74	0.31	0.017	-0.69	0.35	0.049	-0.71	0.36	0.049
Rural municipality				-0.66	0.26	0.014	-0.65	0.30	0.031	-0.76	0.35	0.034	-0.77	0.36	0.034
<i>% non-Belgians</i>							-3.29	2.53	0.196	-4.77	2.80	0.089	-4.54	2.78	0.103
<i>Average Fiscale Income</i>							0.16	0.06	0.011	0.08	0.07	0.232	0.08	0.07	0.233
<i>Space*Status Parents</i>															
Central Aggl. = reference															
Suburban zone													0.04	0.02	0.082
Commuters' zone													0.02	0.02	0.436
Rural zone													0.02	0.02	0.303
RANDOM^a															
σ^2_r	29.47	5.43		29.48	5.43		29.44	5.43		29.14	5.40		29.14	5.40	
σ^2_{u0}	0.07	0.25	0.486	0.03	0.17	>.500	0.03	0.17	>.500	0.07	0.27	>.500	0.00	0.01	>.500
σ^2_{u5}													0.06	0.25	0.367
ρ	0.24%			0.10%			0.09%			0.25%			0.22%		
MODEL FIT^b															
<i>Deviance</i>	14354.37			14348.98			14344.20			13914.50			13912.52		
<i>estimated parameters</i>	3			6			8			15			20		
χ^2				5.39		0.145	4.78		0.092	429.70		0.000	1.98		0.852

Estimation Procedure = Restricted Maximum Likelihood

Estimation Procedure = Full Maximum Likelihood

Acquaintances



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Average Network Status Friends- Belgium



	0-model			Model1			Model2			Model3			Model4		
	Random Intercept			Effect of Space			Controll 2nd Level			Compositional Effects			Interaction Effect		
	Parameter	SD/SE	p	Parameter	SD/SE	p	Parameter	SD/SE	p	Parameter	SD/SE	p	Parameter	SD/SE	p
FIXED^a															
<i>Intercept</i>	50.93	0.14	0.000	51.50	0.24	0.000	51.76	0.27	0.000	51.20	0.39	0.000	51.20	0.39	0.000
<i>Sex</i>										-0.37	0.30	0.217	-0.32	0.30	0.280
<i>Age</i>										0.68	0.08	0.000	0.69	0.08	0.000
<i>Origin</i>										0.70	0.36	0.051	0.62	0.36	0.082
<i>Residence</i>										0.33	0.26	0.206	0.34	0.26	0.185
<i>Status Parents</i>										0.02	0.01	0.112	0.06	0.01	0.000
<i>Education Mother</i>															
No secondary										-1.46	0.69	0.035	-1.38	0.69	0.046
Only secondary										-0.66	0.32	0.038	-0.70	0.32	0.028
Higher = reference															
<i>Space</i>															
Central Aggl. = reference															
Suburban municipality				-0.89	0.62	0.152	-1.45	0.60	0.017	-1.16	0.60	0.055	-1.12	0.59	0.059
Commuters' municipality				-0.63	0.31	0.044	-1.08	0.37	0.005	-0.87	0.37	0.019	-0.81	0.36	0.023
Rural municipality				-0.93	0.34	0.008	-1.06	0.41	0.011	-0.94	0.40	0.019	-0.91	0.39	0.019
<i>% non-Belgians</i>							-7.77	4.88	0.113	-8.73	4.59	0.058	-9.03	4.48	0.044
<i>Average Fiscale Income</i>							0.20	0.12	0.087	0.09	0.11	0.427	0.10	0.11	0.355
<i>Space*Status Parents</i>															
Central Aggl. = reference															
Suburban zone													-0.02	0.03	0.361
Commuters' zone													-0.05	0.02	0.028
Rural zone													-0.08	0.02	0.000
RANDOM^b															
σ^2_{ϵ}	46.80	6.84		46.74	6.84		46.64	6.83		44.46	6.67		44.26	6.65	
σ^2_{η}	0.07	0.27	0.093	0.05	0.23	0.121	0.05	0.21	0.170	0.03	0.17	0.267	0.02	0.14	0.294
$\sigma^2_{\eta^2}$													0.00	0.01	>.500
ρ	0.15%			0.12%			0.10%			0.06%			0.05%		
MODEL FIT															
<i>Deviance</i>	15588.77			15581.95			15574.42			15021.86			15009.68		
<i>n° estimated parameter.</i>	3			6			8			15			20		
χ^2				6.82		0.078	7.53		0.023	552.56		0.000	12.18		0.032

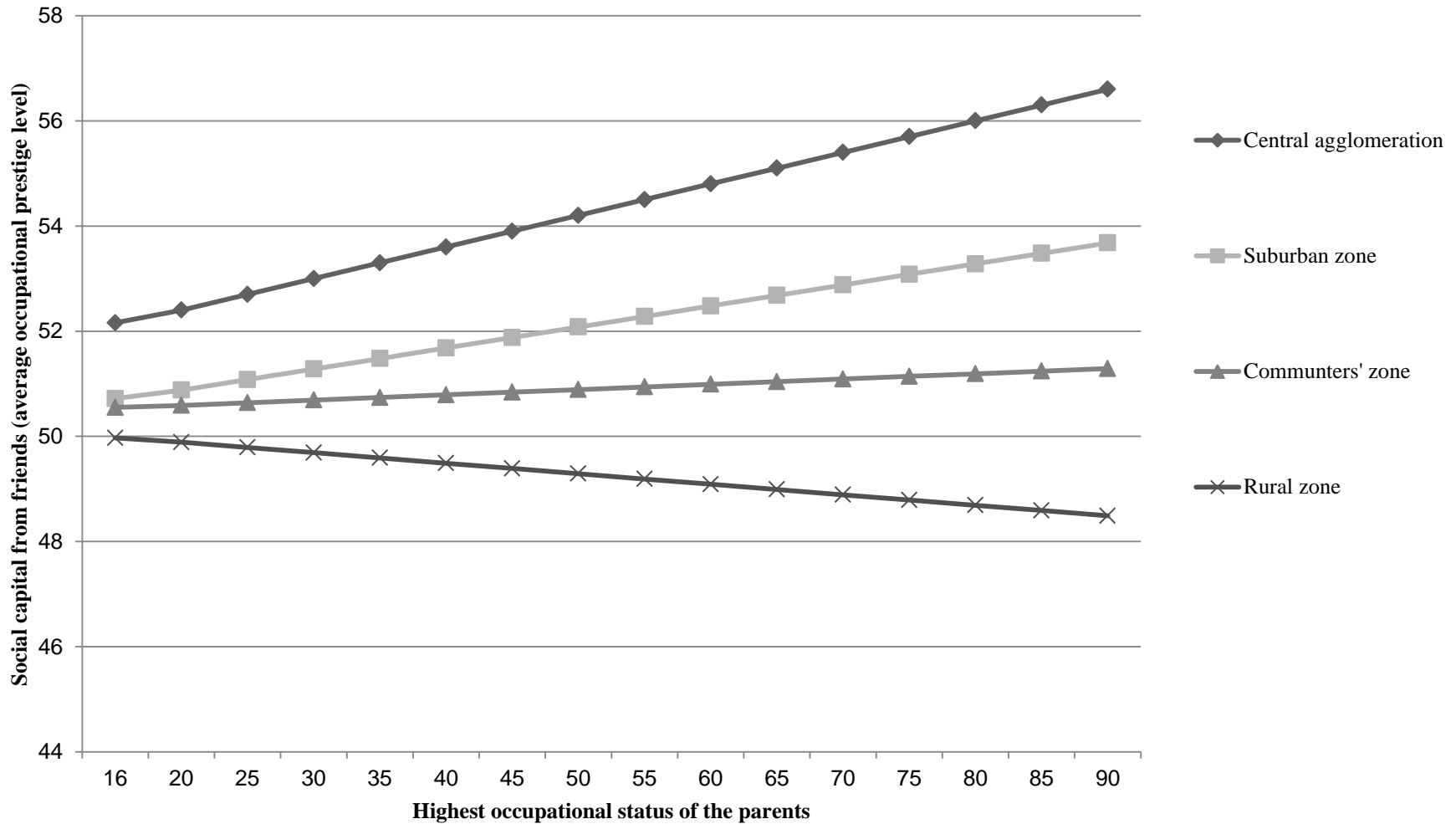
^aEstimation Procedure = Restricted Maximum Likelihood

^bEstimation Procedure = Full Maximum Likelihood



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Average Network Status Friends - Belgium





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Interpretation

- ▶ Scale of city = network opportunity
- ▶ ... for students