Data and methods 000	

The boisterous behaviour of Societas Europaea in Czechia – A proximity analysis of M&A

Aleš Bělohradský

Faculty of Science, Charles University in Prague

June 13, 2019

XXII. Mezinárodní kolokvium o regionálních vědách - Velké Bílovice

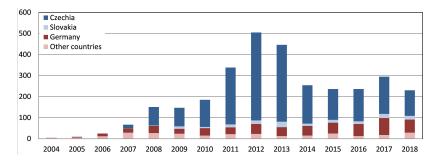
Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia - A proximity analysis of M&A

(日) (周) (日) (日) (日)

Boisterous behaviour?

Registrations of Societates Europaeae by country of origin



Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia - A proximity analysis of M&A

Uυ

3

Outline

- 1. Motivation: European companies in Czechia
- 2. Data and methods: Logit
- 3. Results
- 4. Discussion

Aleš Bělohradský

A step aside – M&A proximity analysis

- Who acquires whom?
- Geographical proximity, industrial relatedness, organizational closeness shape the M&A market.

Ellwanger, N. & R. Boschma (2015)

Who Acquires Whom? The Role of Geographical Proximity and Industrial Relatedness in Dutch Domestic M&As between 2002 and 2008 Tijdschrift voor economische en sociale geografie, 106(5), 608-624

Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia - A proximity analysis of M&A

-

The main idea

Are there differences in M&A behaviour between SE and other listed companies (a.s.)?

Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia - A proximity analysis of M&A

◆□▶ ◆□▶ ◆臣▶ ◆臣▶ 臣 のへで

M&As with SE are characterized by:

1. More frequent practice of ready-made companies.

Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia - A proximity analysis of M&A

M&As with SE are characterized by:

- 1. More frequent practice of ready-made companies.
- 2. More international deals.

Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia – A proximity analysis of M&A

M&As with SE are characterized by:

- 1. More frequent practice of ready-made companies.
- 2. More international deals.
- 3. More important cognitive than geographical proximity.

Aleš Bělohradský

▲□▶ ▲□▶ ▲目▶ ▲目▶ 目 うのの

M&As with SE are characterized by:

- 1. More frequent practice of ready-made companies.
- 2. More international deals.
- 3. More important cognitive than geographical proximity.
- 4. Increasing probability of a deal with decreasing distance.

	Data and methods	
000	000	00

Data

- Source: Bisnode.
- Czech company as a target.
- At least 50 % of the company acquired.
- Time span: 2001–2017
- 126 169 deals

Aleš Bělohradský

(日) (문) (문) (문) (문)

Data and methods	
000	

Data

Tab. 1: Sampling criteria for deals with SE on the acquirer side

Sampling criteria

Number of deals

Single condition	Cumulative
7 798	
5 999	5 999
1 339	860
7 740	817
2 186	270
2 071	104
	7 798 5 999 1 339 7 740 2 186

Source: author's calculations.

Data and methods ○●○	

Data

Aleš Bělohradský

Sampling criteria	Number of deals			
	Single condition	Cumulative		
Total M&A (target = SE)	2 008			
Excluding identical HQ address	1 590	1 590		
Different date of acq. from the foundation	202	122		
Domestic deals	1 939	68		
At least 1 employee in the target	441	34		
Excluding acquirers from Prague	592	10		

Source: author's calculations.

(ロ) (回) (E) (E) (E) (O)

Logistic regression

- Firth logit (rare events data)
- LHS: occurrence of a deal (for every deal 20 random chosen potential targets)
- RHS: Dummies for the same:
 - region/district/city (geographical);
 - NACE section/division/group/class (cognitive);
 - legal form (organizational proximity).

Aleš Bělohradský

3

H1, H2: more frequent ready-made and international deals

Tab. 3: Two sample t-tests for equal means between ES and listed company (a.s.)

Tested binary variable	mean		t-test	
	ES	a.s.	Pr(T=t)	
Date of acq. equal to foundation (acquirer = ES/a.s.)	0.828	0.495	0.000	
International M&A (acquirer = ES/a.s.)	0.050	0.141	0.000	
International M&A (target = ES/a.s.)	0.443	0.472	0.484	

Note: Welch's approximation for unequal variances used Source: author's calculations.

Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia – A proximity analysis of M&A

3

・ロト ・同ト ・ヨト ・ヨト

H4: proximity matters

Tab. 4: Logit results for mergers and acquisitions with SE as an acquirer

	2004-2017		2004-2017		2004-2017		2004-2017	
Spatial proximity								
Time distance (log inverse)							0.647(0.040)	***
Same region (NUTS3)	1.681(0.230)	***			1.726(0.231)	***		
Same district	1.035(0.100)	***			0.999(0.101)	***		
Same city	2.048(0.116)	***			1.991(0.117)	***		
Industrial proximity								
Same section (NACE1)			0.641(0.152)	***	0.613(0.155)	***	0.587(0.155)	***
Same division (NACE2)			0.353(0.164)	**	0.326(0.166)	**	0.341(0.166)	**
Same group (NACE3)			-1.424(1.007)		-1.450(1.012)		-1.398(1.009)	
Same class (NACE4)			0.854(0.106)	***	0.753(0.108)	***	0.745(0.107)	***
Organizational proximity								
Both SE					1.332(0.270)	***	1.435(0.267)	***
Sector dummy	yes		yes		yes		yes	
Year dummy	yes		yes		yes		yes	
Region (NUTS3) dummy	yes		yes		yes		yes	
Pseudo R Sq.	0.05		0.01		0.06		0.06	
Obs.	16 871		16 853		16 853		16 813	

Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia - A proximity analysis of M&A

э

・ロン ・四 と ・ ヨ と ・ ヨ と …

H3: more important cognitive proximity

Tab 5. Logit results - comparison with listed companies (a s)

	ES		a.s.	
Spatial proximity				
Same region (NUTS3)	1.726(0.231)	***	1.666(0.055)	***
Same district	0.999(0.101)	***	0.982(0.033)	***
Same city	1.991(0.117)	***	2.333(0.038)	***
Industrial proximity				
Same section (NACE1)	0.613(0.155)	***	0.218(0.052)	***
Same division (NACE2)	0.326(0.166)	**	0.69(0.05)	***
Same group (NACE3)	-1.45(1.012)		1.243(0.078)	***
Same class (NACE4)	0.753(0.108)	***	0.958(0.043)	***
Organizational proximity				
Same legal form	1.332(0.27)	***	0.543(0.029)	***
Sector dummy	yes		yes	
Year dummy	yes		yes	
Region (NUTS3) dummy	yes		yes	
Pseudo R Sq.	0.06		0.08	
Obs.	16 853		172 883	

Source: author's calculations.

Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia - A proximity analysis of M&A

UU

3

・ロン ・回 と ・ ヨン ・ ヨン

Data and methods	Results
	0000

Practice of ready-made companies more frequent for SE (83% of recorded deals with the date of target formation).

The boisterous behaviour of Societas Europaea in Czechia - A proximity analysis of M&A

3

・ロン ・回 と ・ ヨ と ・ ヨ と …

- Practice of ready-made companies more frequent for SE (83% of recorded deals with the date of target formation).
- More internationalized? Rejected.

▲□▶ ▲□▶ ▲目▶ ▲目▶ 目 のへで

- Practice of ready-made companies more frequent for SE (83% of recorded deals with the date of target formation).
- More internationalized? Rejected.
- Less dependent od spatial closeness? Rejected.

Aleš Bělohradský

The boisterous behaviour of Societas Europaea in Czechia – A proximity analysis of M&A

- Practice of ready-made companies more frequent for SE (83% of recorded deals with the date of target formation).
- More internationalized? Rejected.
- Less dependent od spatial closeness? Rejected.
- SE deviates from the pattern of increasing probability of a deal with decreasing cognitive proximity – in line with the concept of **related variety**.

3