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2012年6月

西安交通大學

The Diffusion Mechanisms of Government Information Technology Innovations

A dissertation submitted to
Xi'an Jiaotong University
in partial fulfillment of the requirement
for the degree of
Doctor of Management Science

By
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Business Administration
Supervisor: Prof. Jiannan Wu
June 2012



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Title: The Diffusion Mechanisms of Government Information Technology Innovations

Speciality: Business Administration

Applicant: Liang Ma

Supervisor: Prof. Jiannan Wu

ABSTRACT

Creative policy ideas and innovative management instruments of one government are usually emulated, adopted, or reinvented by other governments. Information technology (IT) innovation is one pivotal type of government innovation, and its fiscal investment, speed of change, and performance implications are very distinct. The diffusion of local government IT innovations in China is empirically examined in the dissertation. The current debates are synthesized into an integrated theoretical framework to explain the adoption and spread of government IT innovations in China. We empirically test our theoretical hypotheses in the context of three types of IT innovations in Chinese local governments, namely police microblogging, government microblogging, and E-government.

Four contributions emerge from the dissertation. First, we adapt the Berry-Berry policy and innovation diffusion model to explain the government innovation diffusion phenomena in China, taking into account the differences of democratic and authoritarian systems. The Berry-Berry model argues that the diffusion of policies and innovations is mainly driven by four dimensions, namely intergovernmental competition, intergovernmental learning, upper-tier government mandate, and public pressure. We add a new dimension, namely government resources and capacity, to fully understand the diffusion of government IT innovations, thus extending the Berry-Berry models and contributing to the theoretical development of organizational innovation and policy diffusion.

Second, we conduct the first empirical study to examine the diffusion of Police Microblogging in China. More and more public security authorities in China have been involved in a nationwide campaign opening their official microblogs to communicate with netizens and collaboratively defend public security. In the paper we develop a unique dataset to empirically examine the diffusion of police microblogging and its determinants in Chinese municipal police bureaus. The results show that regional competition, upper-tier pressure, internet penetration, and E-government development are positively and significantly associated with the probability of launching police microblogs, whereas regional learning, fiscal health, and public safety are insignificantly correlated with it. We also find evidence to support significant correlations of police microblogging adoption with economic development and population size.

Third, we report the first evidence about the diffusion of government microblogging. The diffusion of government microblogging is empirically examined, using data from 283 prefecture-level cities (PLCs) in China. The results show that the diffusion of government microblogging is dominantly determined by regional diffusion effects (specifically horizontal competition) and government resources and capacity. Economic development and population size are also positively and significantly correlated with the accumulative number of government microblogging. We find no evidence to support the significant effects of intergovernmental learning, vertical upper-tier governmental pressure, and public pressure. The results imply that the diffusion of government microblogging could only be fully explained by the combination of internal and external attributes of the jurisdiction and government itself.

Finally, we empirically examine the diffusion of E-government across Chinese PLCs. Using cross-sectional data of PLC governments, we provide empirical evidences to test several hypotheses concerning E-government development. Our results show that intergovernmental competition and learning, upper-tier government pressure, and government resources and capacity are positively associated with E-government development, whereas citizen demand has no significant effects. We also find that economic development, population size, and administrative ranks of cities are positively correlated with E-government development.

In sum, our theoretical arguments are well supported by empirical results from the diffusion of three government innovations. Generally speaking, we find that intergovernmental competition, intergovernmental learning, upper-tier government mandate, public pressure, and government resources and capacity are key explanatory forces of the diffusion of government IT innovation in China. Governments and policy experts could formulate appropriate measures inspired by our research findings to promote the adoption and diffusion of other types of innovation by local governments. Theoretical contributions and practical implications are discussed, and future research avenues are also directed.

KEY WORDS: Information technology; Innovation diffusion; Local government; Police microblogging; Government microblogging; Government portal; E-government

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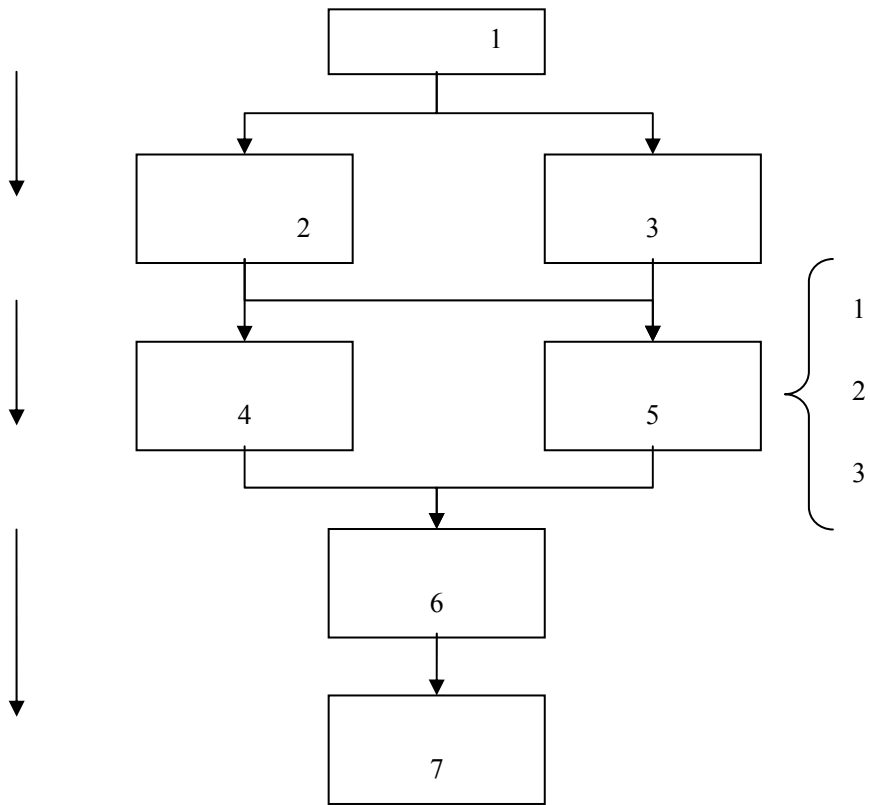
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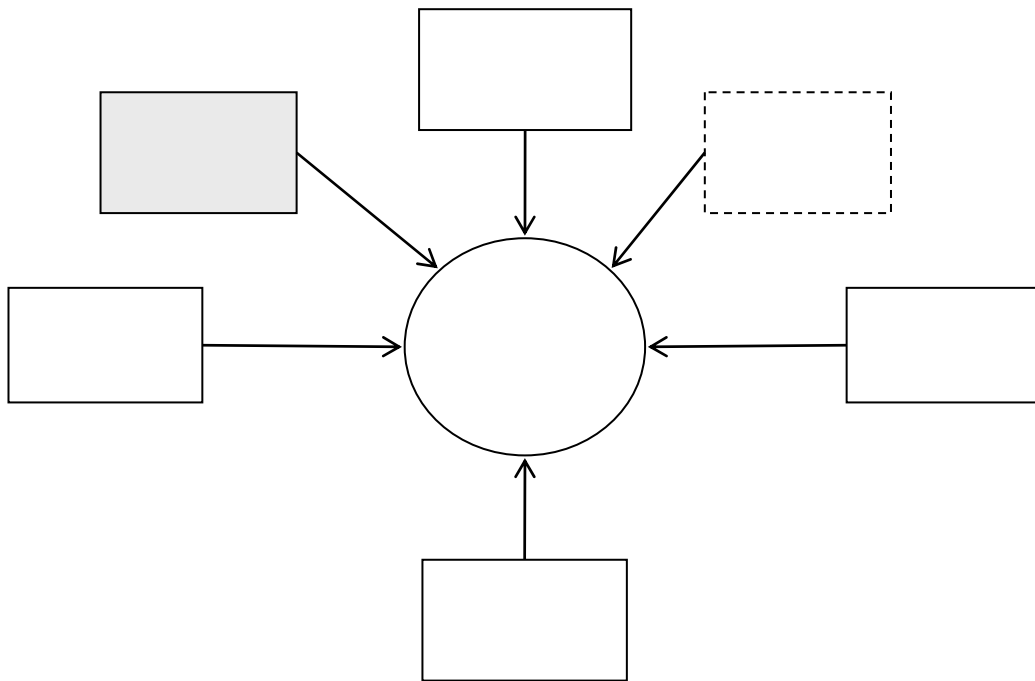
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. 2011-03-25,

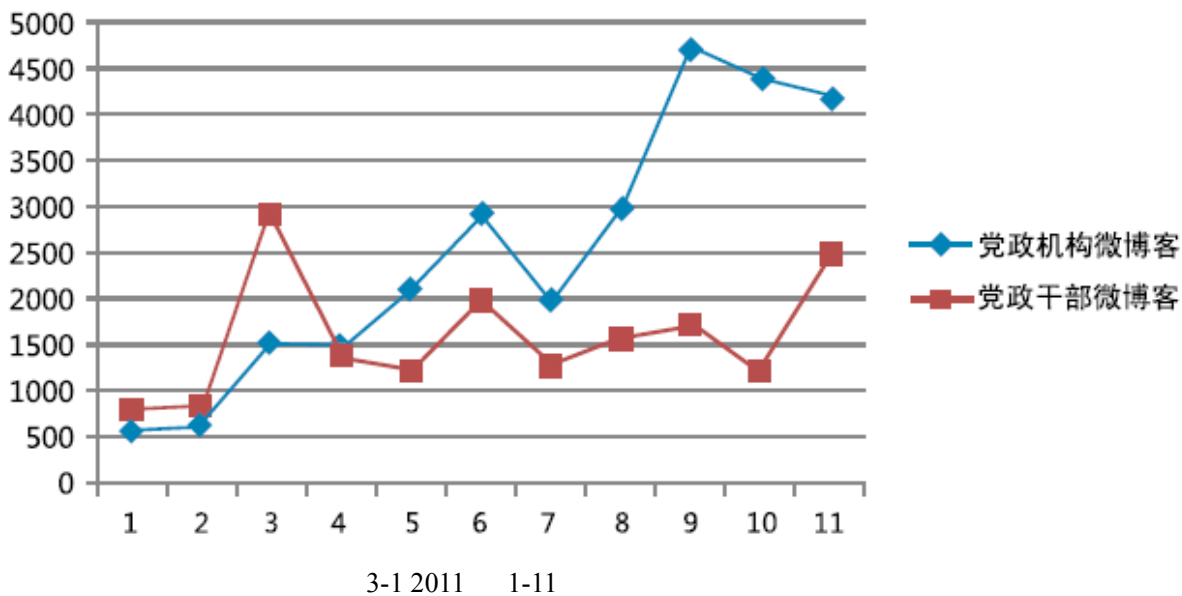
<http://leaders.people.com.cn/GB/14232710.html>

[173] 56% 20%

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2011



[169,170]

3.2.3

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2010
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[189]

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H₁

H_{1a}

H_{1b}

H_{1c}

3.4

[82]

[184]

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[184]

epistemic communities

[191]

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H₂

H_{2a}

H_{2b}

H_{2c}

3.5

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H₃

H_{3a}

H_{3b}

H_{3c}

3.6

3.6.1

[196]

[197]

“ ” digital divide

[198]

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[200-202]

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[198]

[202]

H₄

H_{4a}

H_{4b}

H_{4c}

3.6.2

" "

[203]

performance gap [43] Rogers

H_{4d}

3.7

3.7.1

[45]

resource-based view RBV

[204]

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[61]

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[206]

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Downs Mohr

[24]

[21,208]

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H₅

H_{5a}

H_{5b}

H_{5c}

3.7.2

RBV

[213]

[214]

[215]

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[164,165]

[202]

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[164,165]

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[202]

H_6

H_{6a}

H_{6b}

H_{6c}

3.8

3-2

3-2

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- 1.** **H₁**
 2. H_{1a}
 3. H_{1b}
 4. H_{1c}
 - 5.** **H₂**
 6. H_{2a}
 7. H_{2b}
 8. H_{2c}
 - 9.** **H₃**
 10. H_{3a}
 11. H_{3b}
 12. H_{3c}
 - 13.** **H₄**
 14. H_{4a}
 15. H_{4b}
 16. H_{4c}
 17. H_{4d}
 - 18.** **H₅**
 19. H_{5a}
 20. H_{5b}
 21. H_{5c}
 - 22.** **H₆**
 23. H_{6a}
 24. H_{6b}
 25. H_{6c}
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Walker (1969)

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[211]

654		4	15	268	2009	
	27				367	
	283	[217]	2010-2011	283	268	15
282						

" "

		2010	2011	2010

[181]

[217]

[218]

4-1

4-1

	Launch		1	0	/	
	Days				/	
	Blogs				/	
	E-gov				/	
	Near1	%				+
	Near2					
	Near3					
	Sister					+
	Upper1	0		1		+
	Upper2					+
	Upper3					+
	Netizen		%			+
	Safety	%				+
	Fiscal					+
	E-gov					+
	IT		1	0		+
*	GDP	GDP /				?
	* Size					?
	Capital		1	0		? —
	Vice		1	0		? —
	East		1	0		? —
	West		1	0		? —
	*					+ - ? /

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[219]

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. 2011-04-06,

http://www.iricn.com/index.php?option=com_content&view=article&id=145:2011-04-06-09-55-14&catid=31:2011-03-31-18-06-25&Itemid=78 87% 8%

. 2011.2.25, <http://www.techweb.com.cn/data/2011-02-25/916941.shtml>

<http://www.fanpq.com/index.htm>

<http://gov.weibo.com/government/index.php>

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2011 1 1-3

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[220]

[202]

Daley Garand

[30] Walker

[38]

2002

[2002]17

2002

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2004-2006

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4.2.2

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[154]

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[189]

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sister cities

[222]

[223]

[224]

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FBI UCR 8
4 4
Crime Index 60%
CQ Press
7.5 5
metropolitan statistical area MSA FBI 6 —

Forbes " " " "
25 72 FBI
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[29]

FBI Federal Bureau of Investigation. Uniform Crime Report.
<http://www.fbi.gov/about-us/cjis/ucr/crime-in-the-u.s/> 2012-03-16

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2010 10 1111 John Giuffò. America's Most Dangerous
Cities. Forbes, 10/03/2011, <http://www.forbes.com/sites/johngiuffo/2011/10/03/americas-most-dangerous-cities/>
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<http://www.forbes.com/sites/bethgreenfield/2011/12/15/americas-safest-cities/> 2012-03-16

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[202]

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GDP

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[225,226]

[211]

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[169,170]

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4.3

4.3.1

binomial dummy variable

continuous variable

OLS

Logit Tobit

Logit

Logit
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Logit

[228]

left-censored

truncated

Tobit

Tobit

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[229]

4.3.2

count data OLS

[229]

OLS

Poisson

negative binomial

zero-inflated

zero-truncated

[230]

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OLS Tobit
OLS

4.3.3

OLS

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5.1

5.1.1

5-1

5-1

	<i>N</i>				
Launch	283	0.657	0.475	0	1
Days	283	215.035	208.470	0	765
Near1	283	0.660	0.337	0	1.769
Sister	283	3.855	4.625	0	28
Upper1	283	0.541	0.499	0	1
Netizen	282	11.690	13.816	1.010	100
Safety	283	0.540	0.229	0.100	1
Fiscal	282	-0.532	0.235	-0.933	0.091
E-gov	283	27.521	13.400	4.310	76.130
GDP	282	10.191	0.704	8.555	12.818
Size	282	5.842	0.669	3.082	7.110
Capital	283	0.095	0.294	0	1
Vice	283	0.053	0.224	0	1
East	283	0.346	0.477	0	1
West	283	0.297	0.458	0	1

2011 8 12

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 8 10 283 148
 52.3%

[169,170]

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27.38%

98

75
49.50%

84

76.53%

101

31

83%

95%

50%

0

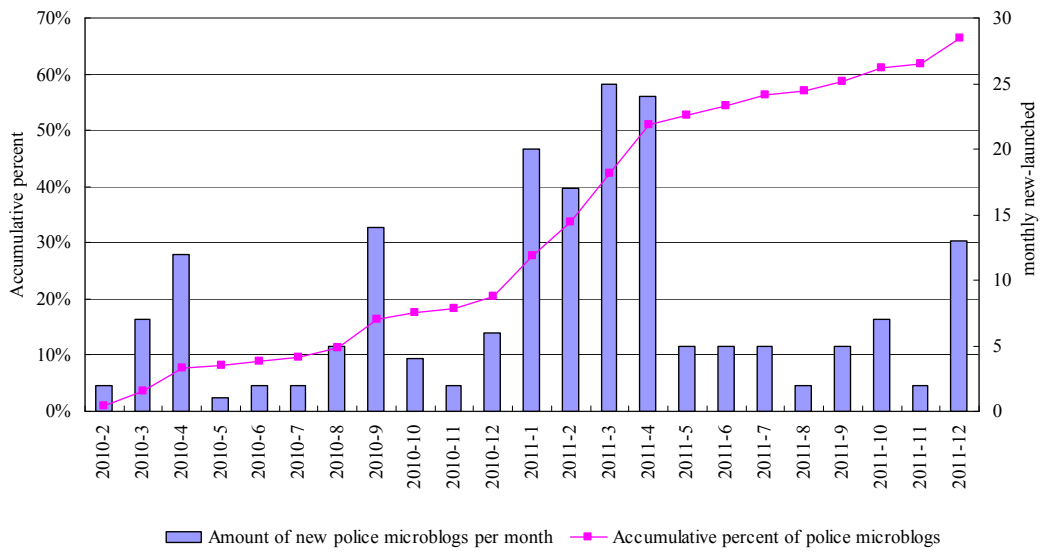
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2009 1 2010 55 2011 7

92

40.06%

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Webometrics

interlinking

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illusory diffusion							
	"	"	"	"			

[57]

5.1.2

r=0.725 p<0.0000

5-2

	Launch	Days	Near1	Sister	Upper1	Netizen	Safety
Days	0.725	1					
Near1	0.587	0.517	1				
Sister	0.169	0.191	0.116	1			
Upper1	0.589	0.497	0.840	0.117	1		
Netizen	0.119	0.268	0.082	0.393	0.006	1	
Safety	0.047	0.052	0.035	0.172	0.073	0.151	1
Fiscal	0.223	0.334	0.280	0.582	0.258	0.560	0.322
E-gov	0.219	0.317	0.176	0.665	0.094	0.460	0.171
GDP	0.122	0.258	0.098	0.523	0.116	0.590	0.297
Size	0.275	0.260	0.310	0.296	0.214	-0.088	0.020
Capital	0.032	0.019	-0.098	0.563	-0.063	0.263	-0.030
Vice	0.038	0.102	0.019	0.663	-0.004	0.346	0.060
	0.12		95%				

" "

6

5-2							
	Fiscal	E-gov	GDP	Size	Capital	Vice	East
East	0.291	0.542	0.405	0.282	0.343	0.361	0.281
West	-0.248	-0.374	-0.338	-0.209	-0.394	-0.155	-0.566
Fiscal	1						
E-gov	0.577	1					
GDP	0.820	0.531	1				
Size	0.023	0.292	-0.231	1			
Capital	0.336	0.355	0.282	0.198	1		
Vice	0.335	0.578	0.361	0.216	0.460	1	
East	0.541	0.358	0.410	0.161	-0.034	0.159	1
West	-0.364	-0.338	-0.248	-0.228	0.079	-0.085	-0.473
	0.12		95%				

5-2

need pull

technology push

$r=0.840$ $p<0.0000$
 $p<0.0000$

GDP

$r=0.820$

0.700

5.1.3

VIF 1 5

10

GDP

4

10

GDP

5-2 5-3

Logit

Wald χ^2

$p<0.0000$ Pseudo

R^2 0.3
 5-2

M4-1

Logit

H_{1a} H_{3a} H_{6a}

3

	5-3		Logit				
	M4-1	M4-2	M4-3	M4-4	M4-5	M4-6	M4-7
Near1		2.190** (0.896)	1.864* (1.062)		4.688*** (0.692)		4.504*** (0.665)
Sister		0.0219 (0.0497)	0.0470 (0.0749)	0.0468 (0.0738)	0.0785 (0.0699)	0.0292 (0.0735)	0.0537 (0.0701)
Upper1		2.031*** (0.576)	2.329*** (0.643)	3.200*** (0.427)		3.108*** (0.417)	
Netizen		0.0172 (0.0155)	0.0192 (0.0171)	0.0193 (0.0170)	0.0121 (0.0163)	0.0157 (0.0167)	0.00766 (0.0162)
Safety		-0.383 (0.734)	0.0696 (0.928)	0.307 (0.912)	0.0632 (0.856)	0.0849 (0.927)	-0.215 (0.867)
Fiscal		-1.299 (1.093)	-2.934* (1.743)	-1.071 (1.194)	-1.177 (1.195)		
E-gov		0.0384** (0.0192)	0.0428* (0.0220)	0.0528** (0.0214)	0.0246 (0.0194)	0.0466** (0.0214)	0.0173 (0.0195)
GDP	0.503* (0.278)		0.710 (0.539)			0.0687 (0.379)	0.201 (0.371)
Size	1.040*** (0.261)		0.716** (0.355)	0.666** (0.296)	0.325 (0.296)	0.752** (0.332)	0.482 (0.326)
Capital	0.127 (0.594)		0.424 (0.850)	0.0637 (0.815)	0.844 (0.837)	-0.0554 (0.810)	0.651 (0.836)
Vice	-1.406* (0.778)		-2.405** (1.212)	-2.393** (1.205)	-2.224* (1.155)	-2.248* (1.204)	-2.048* (1.168)
East	1.007*** (0.385)		0.349 (0.532)	0.542 (0.511)	0.173 (0.487)	0.386 (0.488)	-0.0287 (0.478)
West	-0.293 (0.325)		0.613 (0.535)	0.878* (0.521)	0.0730 (0.474)	0.866* (0.521)	0.0758 (0.474)
	-10.60*** (3.794)	-3.293*** (1.190)	-16.18** (7.262)	-7.416*** (2.103)	-5.849*** (2.038)	-7.550 (4.747)	-7.505 (4.691)
N	282	282	282	282	282	282	282
Log likelihood	-156.676	-118.065	-113.166	-115.370	-121.450	-115.764	-121.800
Wald χ^2	48.35***	125.57***	135.37***	130.96***	118.80***	130.17***	118.10***
Pseudo R ²	0.134	0.347	0.374	0.362	0.329	0.360	0.327

Launch

*** p<0.01,

** p<0.05, * p<0.1

	5-4		Tobit				
	M4-8	M4-9	M4-10	M4-11	M4-12	M4-13	M4-14
Near1		266.9*** (84.91)	151.6* (82.40)		344.6*** (50.82)	337.8*** (49.99)	
Sister		-5.707 (4.314)	-6.467 (4.803)	-5.818 (4.797)	-3.576 (4.856)	-6.212 (4.829)	-7.948* (4.788)
Upper1		166.5*** (54.84)	153.6*** (52.78)	234.7*** (32.05)			227.5*** (31.58)
Netizen		2.671** (1.238)	2.346** (1.186)	3.042*** (1.172)	2.198* (1.178)	1.546 (1.184)	2.479** (1.180)
Safety		-20.49 (67.77)	-135.9* (73.35)	-132.0* (74.02)	-144.4* (74.56)	-168.2** (73.80)	-153.7** (73.52)
Fiscal		66.37 (91.16)	-178.7 (117.6)	-21.33 (93.72)	-3.518 (94.83)		
E-gov		5.005*** (1.533)	3.151** (1.551)	3.922** (1.545)	2.993* (1.545)	2.193 (1.552)	3.222** (1.555)
GDP	69.54** (28.36)		83.15** (40.06)			57.95* (31.99)	42.55 (31.71)
Size	121.7*** (27.84)		85.65*** (27.89)	70.26*** (24.19)	48.77* (25.08)	75.63*** (28.14)	91.18*** (27.46)
Capital	-6.078 (60.42)		50.49 (58.00)	31.92 (58.11)	55.26 (59.64)	44.95 (58.16)	22.09 (56.93)
Vice	-104.1 (76.64)		-111.4 (79.62)	-100.7 (80.42)	-98.13 (81.56)	-90.85 (79.92)	-92.55 (78.98)
East	209.0*** (37.67)		154.3*** (35.97)	167.9*** (35.81)	148.7*** (36.80)	132.3*** (35.60)	153.7*** (34.47)
West	-73.89* (38.87)		-49.72 (43.28)	-35.48 (43.46)	-85.30** (42.18)	-87.02** (41.92)	-38.46 (43.32)
	-1,307*** (391.6)	-218.2** (102.6)	-1,525*** (533.5)	-488.8*** (162.2)	-403.6** (162.7)	-1,086*** (410.9)	-977.4** (405.1)
sigma	231.4*** (12.87)	223.2*** (12.26)	202.0*** (11.11)	204.7*** (11.26)	207.7*** (11.44)	206.4*** (11.35)	204.0*** (11.22)
N	282	282	282	282	282	282	282
Log likelihood	-1358.513	-1339.192	-1320.434	-1323.899	-1327.418	-1325.780	-1323.026
LR χ^2	108.58***	147.22***	184.73***	177.80***	170.77***	174.04***	179.55***
Pseudo R ²	0.038	0.052	0.065	0.063	0.060	0.062	0.064

0 Days
*** p<0.01, ** p<0.05, * p<0.1

M4-3

GDP

R² Tobit LR χ^2 p<0.0000 Pseudo
5-3 Pseudo R²
R² OLS R²
0.40
Tobit

H_{1a} H_{3a} H_{4a} H_{6b} 4

M4-14 90%

M4-9

GDP

5.2

5.2.1

5-5

283

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5-5

		<i>N</i>				
	Blogs	283	34.922	50.323	0	435
	Near2	283	34.932	23.613	0	111.583
	Sister	283	3.855	4.625	0	28
	Upper2	283	30.212	13.480	3	58
	Netizen	282	11.690	13.816	1.010	100
	Fiscal	282	-0.532	0.235	-0.933	0.091
	E-gov	283	27.521	13.400	4.310	76.130
	* GDP	282	10.191	0.704	8.555	12.818
*	Size	282	5.842	0.669	3.082	7.110
	Capital	283	0.095	0.294	0	1
	Vice	283	0.053	0.224	0	1
	East	283	0.346	0.477	0	1
	West	283	0.297	0.458	0	1

*

5.2.2

5-6

5-6

	Blogs	Near2	Sister	Upper2	Netizen	Fiscal
Near2	0.319	1				
Sister	0.460	0.249	1			
Upper2	0.155	0.330	0.062	1		
Netizen	0.328	0.238	0.393	0.169	1	
Fiscal	0.465	0.447	0.582	0.279	0.560	1
E-gov	0.509	0.337	0.665	0.259	0.460	0.577
GDP	0.409	0.304	0.523	0.214	0.590	0.820
Size	0.264	0.184	0.296	0.311	-0.088	0.023
Capital	0.332	-0.151	0.563	-0.076	0.263	0.336
Vice	0.395	0.063	0.663	0.042	0.346	0.335
East	0.318	0.677	0.282	0.497	0.361	0.541
West	-0.149	-0.317	-0.209	-0.329	-0.155	-0.364

	0.15	95%				
		5-6				
	E-gov	GDP	Size	Capital	Vice	East
E-gov	1					
GDP	0.531	1				
Size	0.292	-0.231	1			
Capital	0.355	0.282	0.198	1		
Vice	0.578	0.361	0.216	0.460	1	
East	0.358	0.410	0.161	-0.034	0.159	1
West	-0.338	-0.248	-0.228	0.079	-0.085	-0.473

0.15 95%

GDP

r=0.820 p<0.0000 0.70

VIF 5 GDP

VIF 4.73 4.57 10

GDP

5.2.3

5-7

0.01

p=0.0000

p<0.01

GDP M5-2 M5-4

M5-3

p<0.05 H_{1b} H_{5b} H_{6b}

M5-1 p<0.01 GDP

M5-6

r=0.582 r=0.523 H_{2b}

M5-1 p<0.05

GDP		M5-3	M5-5	H _{3b}		
		5-7				
	M5-1	M5-2	M5-3	M5-4	M5-5	M5-6
Near2		0.00689*** (0.00225)	0.00873*** (0.00295)	0.00865*** (0.00296)	0.00903*** (0.00296)	0.00994*** (0.00306)
Sister		0.0447*** (0.0163)	-0.0167 (0.0188)	-0.0043 (0.0189)	-0.0146 (0.0188)	0.0161 (0.0191)
Upper2		0.00924** (0.00421)	-0.00091 (0.00456)	0.00194 (0.00458)	-0.0011 (0.00455)	0.00461 (0.0046)
Netizen		-0.00055 (0.00445)	-0.000 (0.0043)	0.00166 (0.0045)	0.00068 (0.00429)	0.0066 (0.00471)
Fiscal		1.143*** (0.311)	0.569 (0.417)	1.393*** (0.325)		
E-gov		0.0166*** (0.00495)	0.0105** (0.00528)	0.0148*** (0.00513)	0.0104** (0.0053)	0.0193*** (0.00509)
GDP	0.704*** (0.094)		0.460*** (0.146)		0.584*** (0.115)	
Size	0.703*** (0.0869)		0.591*** (0.104)	0.417*** (0.0914)	0.608*** (0.104)	0.289*** (0.0891)
Capital	0.508*** (0.193)		0.687*** (0.215)	0.676*** (0.217)	0.732*** (0.213)	0.847*** (0.218)
Vice	-0.0853 (0.248)		-0.209 (0.286)	-0.239 (0.288)	-0.225 (0.286)	-0.311 (0.288)
East	0.385*** (0.125)		0.11 (0.155)	0.132 (0.157)	0.138 (0.153)	0.269* (0.157)
West	-0.0473 (0.124)		0.0265 (0.127)	0.0937 (0.127)	-0.0155 (0.124)	0.0101 (0.129)
	-8.185*** (1.259)	2.752*** (0.299)	-5.196*** (1.921)	0.662 (0.496)	-6.885*** (1.475)	0.265 (0.503)
Ln α	-0.548*** (0.0873)	-0.457*** (0.086)	-0.610*** (0.0884)	-0.573*** (0.0876)	-0.605*** (0.0883)	-0.512*** (0.0867)
N	282	282	282	282	282	282
LR χ^2	197.76***	171.40***	215.09***	205.20***	213.25***	187.62***
Log likelihood	-1189.2359	-1202.4157	-1180.5695	-1185.5151	-1181.4913	-1194.3033
Pseudo R ²	0.0768	0.0665	0.0849	0.0797	0.0828	0.0728

*** p<0.01, ** p<0.05, * p<0.1

M5-2 M5-3 H_{4b}
 GDP
 M5-1 M5-6

5.3

5.3.1

5-8

13

80

13

5-8

		<i>N</i>				
	E-gov	283	38.763	12.961	12.570	80.720
	Near3	283	27.486	8.012	0	46.880
	Sister	283	3.855	4.625	0	28
	Upper3	283	42.012	16.158	14.420	70.330
	Netizen	282	11.690	13.816	1.010	100
	Fiscal	282	-0.532	0.235	-0.933	0.091
	IT	283	0.604	0.490	0	1
GDP*	GDP	282	10.191	0.704	8.555	12.818
*	Size	282	5.842	0.669	3.082	7.110
	Capital	283	0.095	0.294	0	1
	Vice	283	0.053	0.224	0	1
	East	283	0.346	0.477	0	1
	West	283	0.297	0.458	0	1

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5.3.2

5-9

0.80

5-9

	E-gov	Near3	Sister	Upper3	Netizen	Fiscal
Near3	0.489	1				
Sister	0.577	0.202	1			
Upper3	0.314	0.511	0.070	1		
Netizen	0.414	0.261	0.393	0.229	1	
Fiscal	0.566	0.404	0.582	0.150	0.560	1
IT	0.379	0.188	0.344	0.022	0.221	0.329
GDP	0.499	0.255	0.523	0.060	0.590	0.820
Size	0.294	0.247	0.296	0.152	-0.088	0.023
Capital	0.332	-0.175	0.563	-0.061	0.263	0.336
Vice	0.468	0.060	0.663	0.084	0.346	0.335
East	0.363	0.601	0.282	0.266	0.361	0.541
West	-0.337	-0.573	-0.209	-0.295	-0.155	-0.364

0.12

95%

5-9

	IT	GDP	Size	Capital	Vice	East
IT	1					
GDP	0.275	1				
Size	0.208	-0.231	1			
Capital	0.263	0.282	0.198	1		
Vice	0.192	0.361	0.216	0.460	1	
East	0.164	0.410	0.161	-0.034	0.159	1
West	-0.123	-0.248	-0.228	0.079	-0.085	-0.473

0.12

95%

5.3.3

5-10

F

M6-1 R^2 0.480 R^2 0.50
 $p=0.0000$

99%

 H_{1c}

	M6-1	M6-2	M6-3	M6-4	M6-5
Near3		0.388*** (0.0862)	0.524*** (0.103)	0.518*** (0.105)	0.534*** (0.103)
Sister		0.983*** (0.146)	0.273 (0.191)	0.362* (0.191)	0.300 (0.189)
Upper3		0.0982** (0.0393)	0.0806** (0.0379)	0.0715* (0.0383)	0.0804** (0.0378)
Netizen		0.0577 (0.0478)	0.0246 (0.0488)	0.0543 (0.0484)	0.0287 (0.0486)
Fiscal		9.155*** (3.319)	4.198 (4.591)	12.96*** (3.560)	
IT		3.812*** (1.187)	2.883** (1.155)	3.160*** (1.168)	2.927** (1.154)
GDP	7.649*** (1.090)		4.533*** (1.530)		5.435*** (1.170)
Size	5.648*** (1.024)		3.232*** (1.014)	1.840** (0.912)	3.352*** (1.006)
Capital	4.464* (2.355)		4.739** (2.386)	4.316* (2.416)	5.124** (2.348)
Vice	10.84*** (3.040)		9.368*** (3.168)	10.60*** (3.185)	8.880*** (3.121)
East	1.551 (1.478)		-2.845* (1.510)	-2.792* (1.532)	-2.525* (1.469)
West	-3.565** (1.455)		0.0315 (1.412)	-0.220 (1.430)	-0.0689 (1.408)
	-72.60*** (14.79)	22.10*** (3.507)	-44.91** (20.56)	13.81** (5.533)	-57.56*** (15.20)
N	282	282	282	282	282
F	42.25***	51.94***	31.66***	32.80***	34.48***
R ²	0.480	0.531	0.586	0.572	0.584
Adj R ²	0.468	0.521	0.567	0.550	0.567

*** p<0.01, ** p<0.05, * p<0.1

M6-2 M6-4
M6-3 M6-5
r=0.523 p<0.0000

GDP

GDP

H_{2c}

H_{3c}

H_{4c}

H_{5c}

H_{6c}

M6-3

GDP

GDP

6

6.1

H_{1a} H_{3a} H_{6a}

H_{4a}

H_{1a}

H_{2a}

H_{3a}

H_{4d}

H_{5a}

H_{6a}

GDP

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convergence

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6.4.1

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6-1

Logit
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OLS

6.4.2

generic
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6-2

6-2

$H_{1(a, b, c)}$	+	+	+	+
$H_{2(a, b, c)}$	+	/	/	+
$H_{3(a, b, c)}$	+	+	/	+
$H_{4(a, b, c)}$	+	+	/	/
H_{4d}	-	/	?	?
$H_{5(a, b, c)}$	+	/	+	+
$H_{6(a, b, c)}$	+	+	+	+
		4/7	3/6	5/6

+ /

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1

$H_{1(a, b, c)}$

$H_{1(a, b, c)}$

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 $H_{2(a, b, c)}$ $H_{2(a, b, c)}$

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 $H_{3(a, b, c)}$ $H_{3(a, b, c)}$



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$H_{4(a, b, c, d)}$

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$H_{4(a, b, c)}$

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H_{4d}

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H_{5(a, b, c)}

H_{5(a, b, c)}

Downs Mohr

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H_{6(a, b, c)}

H_{6(a, b, c)}

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Berry Berry

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Logit probit

Berry Berry (1990)
Berry DeMeritt Esarey (2010)



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Walker

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Westlaw

2011-03-13

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http://gzdaily.dayoo.com/html/2011-03/13/content_1290223.htm

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