Demand for Regulation as a Function of Government Efficiency and Social Capital. Empirical Analysis

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Demand for Regulation and Social Capital

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Motivation

• Regulation and the quality of governance

- Why do people in countries with corrupt government prefer high state regulation?
- From the rational point of view relationship should be negative: more corruption - less government

• Social capital and development

- Social capital is correlated with various characteristics of socio-economic development
- However, the transmission channels between micro social capital and macro indicators are ambiguous

Idea

Demand for regulation as a transmission channel between social capital and development

- Social capital society's ability to organize and cooperate to ensure optimal public good production
- When social capital is low, lack of self-organization pushes people to call for state intervention
- State as a monopolist would later take all surplus in the form of corruption

To prove the logic we study interplay between demand for state regulation, quality of government and social capital

Literature I

- **Putnam(1993)**: comparison btw North and South regions of Italy. South regions - high demand for state regulation and poor government performance, and vice versa in the North. Difference is attributed to difference in social capital stock.
- **Pinotti(2008)**: high regulation can be an optimal response to the lack of honest people in economy. On cross-country sample a state intervention is not correlated with the level of corruption and shadow economy if one controls for trust
- Di Tella and McCulloch (2009): if regulation is low and business is corrupt, people would rationally support high regulation. This can be traced from electoral statistics through voting for left parties.
 - Higher level of corruption predicts support for left parties in the next electoral period
 - Individual demand for regulation is correlated with a respondent's perception of corruption

Literature II

- Aghion et.al(2010): model that demonstrates interplay between trust, demand for regulation and corruption
 - Two equilibria: one with honest people, high trust and low regulation and the second with other way around (Russia in a bad one)
 - Some empirical evidence is provided on case of transition economies
- **Boyko et.al(1993)**: during privatization period Russian workers gave all power to managers instead of controlling them
- **Denisova et.al.(2010**): correlation between demand for regulation and trust and between corruption and trust on Russian poll data.
 - Demand for regulation is measured by demand for state regulation of prices and demand for direct government intervention in labor market, healthcare and road construction
 - Trust is measured as trust to business, courts, government and average trust to people in region.

Model(Idea) I

- Management and control of the public good production is public good itself
- It can be entrusted either to state or to society (self-governance)
- Self-governance suffers from cooperation and free-rider problems (and measured by social capital)
- State governance inefficient because of lack of information and corruption (and measured by quality of state governance)

• Timing:

- First, society chooses to what extent government should be involved
- ► Next, using its monopolistic power state collects rents on charged areas
- Draft of a model individuals find an optimal size of community group, that can efficiently operate
- Government which coordinates between groups maximizes its rents. Equilibrium follows which we study in the second step

Hypothesis

First step /people determine optimal level of regulation

Hypothesis

Individual demand for state control depends on interplay between quality of bureaucracy and social capital (proxy for "quality of self-management")

second step /state uses monopoly power

Hypothesis

In equilibrium societies with low social capital is characterized with higher demand for regulation and worse situation

Opinion poll (Center for strategic research "Rosgosstrakh")

- 6.5K respondents from 66 Russian cities
- 37 big cities regional capitals or second city in the region
- 29 towns of Moscow region where it is easier to ensure that institutional conditions are the same

Individual Level: empirical strategy

 $DemandForRegulation_i = const + \beta QualityOfBureaucracy_i$

 $+\gamma SocialCapital_i + \zeta_k IndivControls_{ki} + \epsilon_i$

We expect demand for regulation to depend positively on quality of bureaucracy and negatively on social capital

- Demand for regulation: Do you think there is need to increase government control over economics and society or not?
- Quality of bureaucracy: Do you think that bureaucrats do much to increase welfare of the citizens?
- Social capital: Do you think people in your city are initiative? Are people in your city ready to unit to solve public common problems?
- IndivControls age, sex, welfare, education, satisfaction with life

Individual Level: Results

Demand for regulation and quality of bureaucracy and social capital (probit model)

VARIABLES	(1)	(2)	(3)	(4)	(5)
bur quality	0.0196		0.0398**	0.000210	0.00459
	(0.0187)		(0.0198)	(0.0275)	(0.0281)
citizen_initiative		-0.0907***	-0.0990***	-0.158***	-0.156***
		(0.0235)	(0.0240)	(0.0371)	(0.0377)
bur_quality x citizen_initiative				0.0473**	0.0492**
				(0.0231)	(0.0234)
Individual characteristics	YES	YES	YES	YES	YES
City fixed effects	NO	NO	NO	NO	YES
Observations	5,658	5,386	5,245	5,245	5,245
Pseudo R-squared	0.0220	0.0233	0.0250	0.0256	0.0360

- Demand for regulation does not depend on quality of governance if the quality of self-governance (social capital) isn't taken into account
- Increase of social capital and decrease of quality of governance leads to greater demand for regulation
- The size of bureaucratic quality effect depends on positively on the social capital stock.

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Aggregate Level: Liberal values index I

We use electoral statistics as a proxy for demand for regulation in Russia

- Clear distinction between "left" and "right" parties
- Voting is not for parties or programs but for leaders (strong khozyaistvenniks vs reformators)
- Persistance between electoral cycles 1995, 1999, 2007 (2003 is to be added)
- Left: Communist party in 1995; "United Russia" in 2007
- Right: Yabloko in 1995; Yabloko, SPS in 1999 and 2007
- Factor analysis to prove these hypothesis
- City's Liberal values index as a result

Aggregate Level: Liberal values index II

Variable	Factor1	Factor2	Factor3	Uniqueness
el95_kprf	-0.67	0.09	0.42	0.37
el99_kprf	-0.62	0.41	0.17	0.42
el07_kprf	0.12	0.75	0.07	0.41
el95_yabl	0.68	-0.15	0.35	0.40
el99_yabl	0.65	-0.23	0.17	0.50
el07_yabl	0.83	0.16	0.31	0.19
el99_sps	0.54	-0.05	-0.25	0.64
el07_sps	0.84	0.03	0.01	0.29
el07_edro	-0.51	-0.68	0.20	0.25

- First factor is easily interpreted as liberal values (or inverse demand for "strong hand")
- Highly negatively correlated with Communist votes in 1995 and Putin's party votes in 2007
- Highly positively correlated with votes for liberal parties in every election cycle

Social capital and Liberal values index

Level of Analysis - city Social capital is aggregated measure from the poll described above. Two samples - big cities and towns of Moscow regions. Regression:

 $LiberalValuesIndex_i = const + \gamma SocialCapital_i + \zeta_k Controls_{ki} + \epsilon_i$

Results: Big Cities

Liberal values and social capital in big cities

VARIABLES	1	2	3
citizen_initiative	2.682**	2.422**	
	(1.123)	(0.958)	
willingness to unit			2.202
			(1.368)
stud_number_pc		7.645	8.4
		(5.857)	(6.629)
Controls	YES	YES	YES
Observations	34	34	34
R-squared	0.546	0.585	0.546

Results: Moscow region

Liberal values and social capital in towns of Moscow region

VARIABLES	1	2	3	4	5
citizen_initiative	1.709***	1.113*	0.803	0.976**	0.717
	(0.603)	(0.625)	(0.550)	(0.403)	(0.508)
Iwage		1.282*	-0.0853	0.223	0.407
		(0.678)	(0.585)	(0.553)	(0.546)
dist_moscow			-0.0161***	-0.00877***	-0.00815***
			(0.004)	(0.003)	(0.003)
popul_nat_gr				0.137***	0.102*
				(0.048)	(0.050)
education					0.722*
					(0.347)
Constant	5.162	3.777	7.399	7.343	3.527
	(6.803)	(7.001)	(5.772)	(4.620)	(4.080)
Observations	28	28	28	28	28
R-squared	0.267	0.334	0.601	0.693	0.725

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Social capital and cities' development

Level of Analysis - city. Proxy for the development is an aggregated citizens' satisfaction with the situation in the city from the poll described above. Two samples - big cities and towns of Moscow regions. Regression:

 $CityDevelopment_i = const + \gamma SocialCapital_i + \zeta_k Controls_{ki} + \epsilon_i$

Results:

Social capital and cities development for large cities and towns of Moscow region

VARIABLES	1	2	3	4	5	6	7	8	9	10	11	12
citizen_initiative	1.032***	0.845**	0.972**				0.23	0.23	0.07			
	(0.338)	(0.354)	(0.352)				(0.204)	(0.192)	(0.244)			
willingness to unit				0.828**	0.59	0.720*				-0.19	-0.21	-0.33
				(0.353)	(0.369)	(0.369)				(0.324)	(0.327)	(0.322)
welfare		0.48	0.21		0.74	0.47		0.28	0.39		0.31	0.45
		(0.536)	(0.467)		(0.529)	(0.496)		(0.497)	(0.464)		(0.501)	(0.466)
ind welfare			0.02			0.03						
-			(0.042)			(0.045)						
bus welfare			0.0744**			0.0593*						
-			(0.035)			(0.030)						
lwage						· · ·			0.33			0.426*
									-0.24			-0.24
Constant	1.17	-0.65	1.70	-0.44	-2.77	-1.09	0.28	-0.99	-1.88	0.78	-0.56	-1.49
	(1.811)	(3.066)	(3.222)	(2.120)	(3.171)	(3.325)	(1.800)	(2.363)	(2.236)	(2.012)	(2.604)	(2.484)
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Observations	37	37	34	37	37	34	29	29	29	29	29	29
R-squared	0.21	0.233	0.301	0.115	0.176	0.23	0.1	0.118	0.163	0.091	0.112	0.2

There is significant correlation for big cities. For Moscow region cities correlation is not so high

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