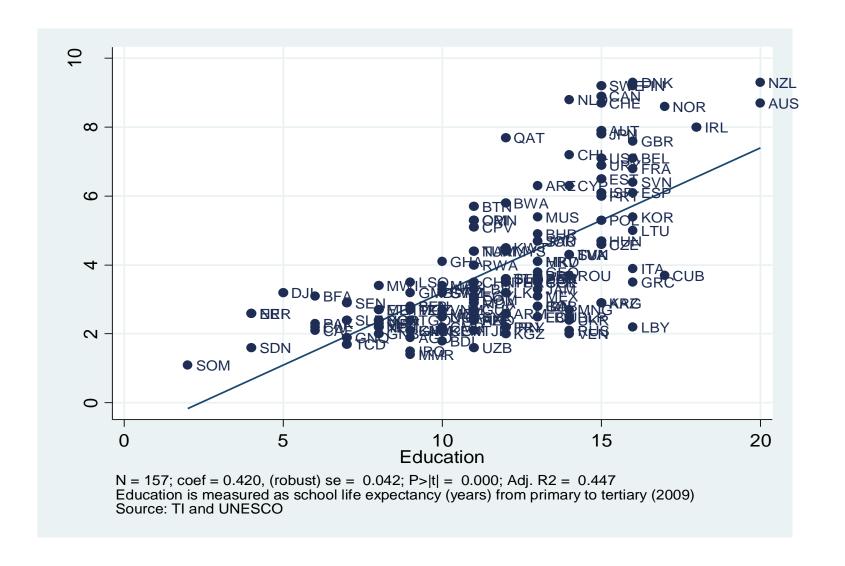
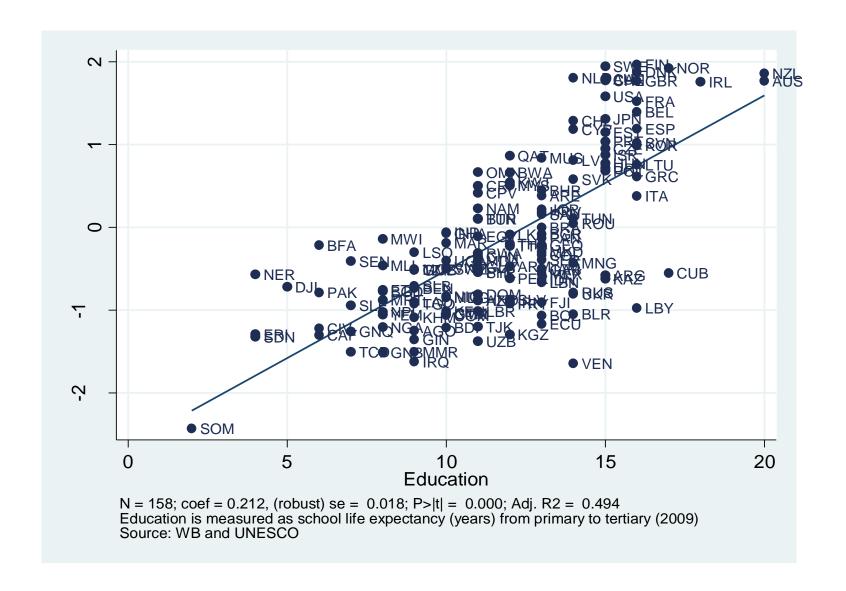
THE QUALITY OF GOVERNMENT

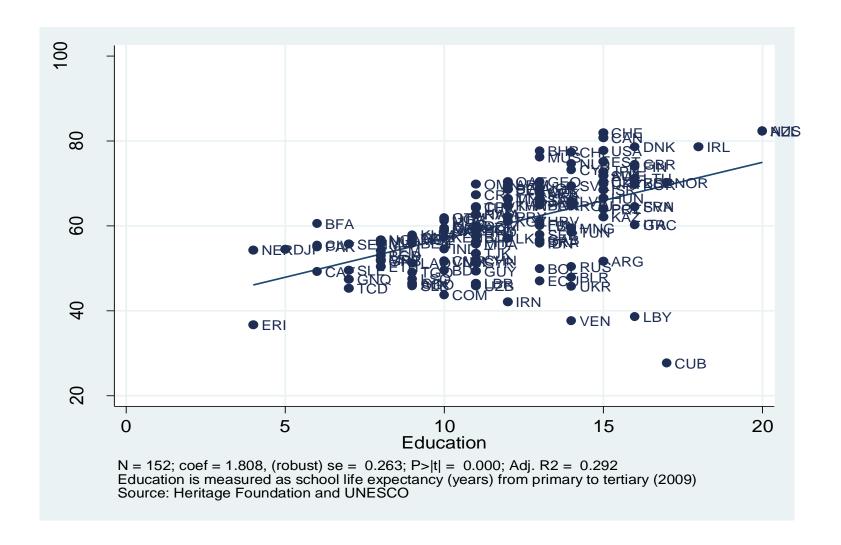
LEONTIEF CENTER

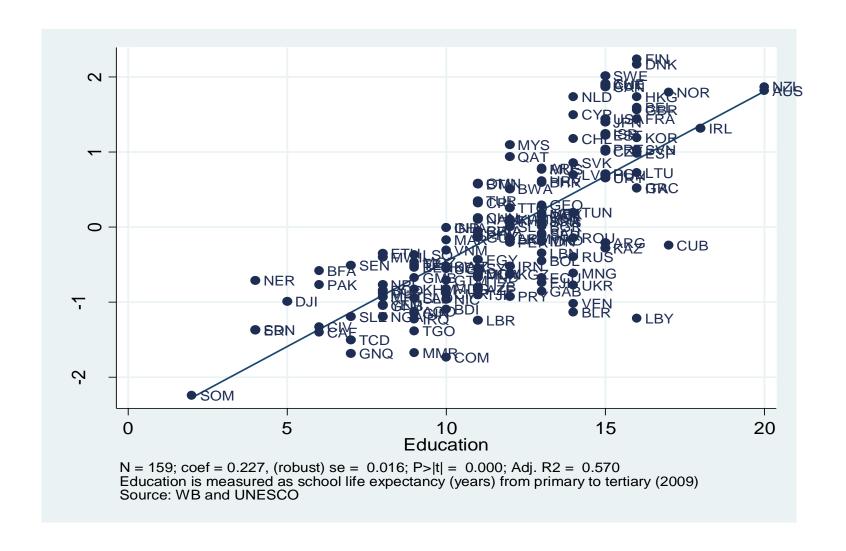
Andrei Shleifer June 21, 2012

- Richer countries almost always have better governments
 - Less corrupt
 - More efficient
- Quality of government improves with development and education
- But why?

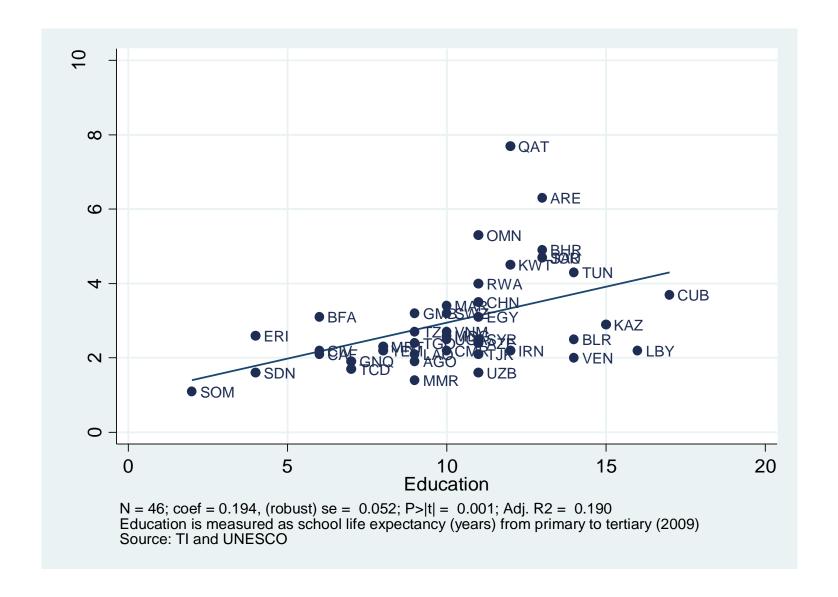


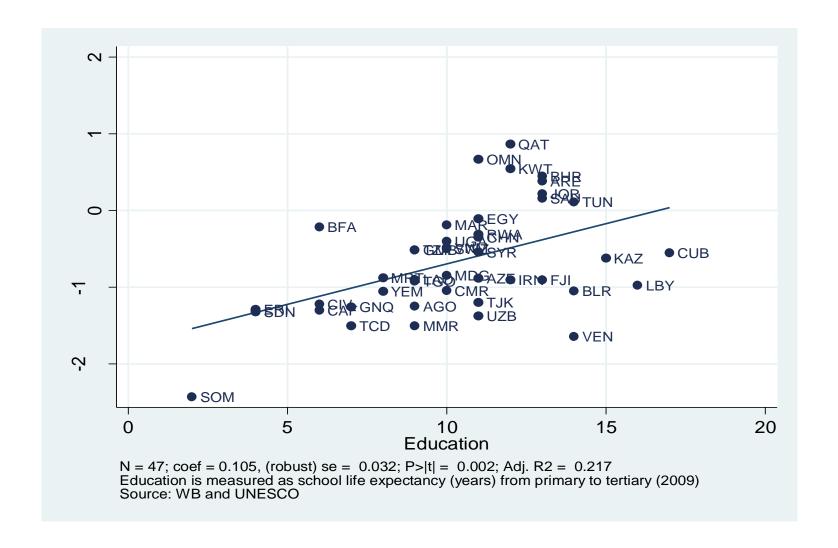






- Usual explanation: democracy
 - People vote out corrupt and incompetent politicians
- But the quality of government improves with education / development in non-democracies as well





Not a completely obvious issue

- □ Take corruption
- With Development
 - Opportunities improve
 - Regulations increase
 - Yet corruption decreases

In this lecture, two additional theories

- Complaining
 - Educated people complain, and complaints lead to improved public conduct

- Productivity
 - Government is like any other business: it is more productive in richer countries

One source for the improvement in institutions is citizen complaints

- A bureaucrat trades off the benefit of an extra violation of rules against the cost
- Expected cost rises as complaints rise, even if responsiveness to complaints is very low
- Educated people complain more (and more effectively)
- So, with education, costs of official misconduct rise, and it declines

- A completely decentralized theory consistent with democracy and dictatorship
- Related to Hirschman and Verba, but do not focus on elections

 \square We test the link: education \rightarrow complaints

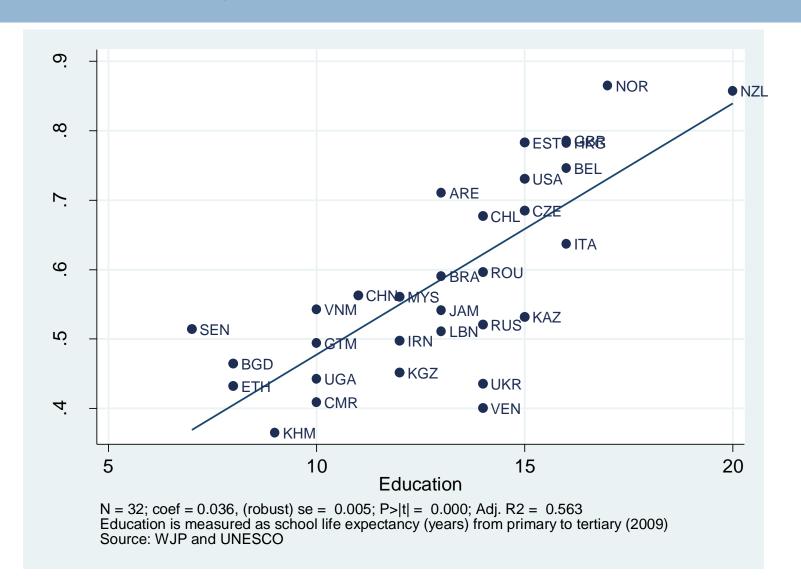
World Justice Project Data

- Surveys of 1,000 individuals in 65 countries during 2009 and 2011
- Representative by gender, education, socio-economic status
- Only use questions about own or household experience
- Contains information on income, education, trust
- Questions on complaints about government and about victimization and reporting of crime

Supplementary data for robustness

- International Crime Victims Survey (ICVS)
 - Crime victimization, reporting, and reasons for reporting and non-reporting in 78 countries
- 2009 TI Global Corruption Barometer
 - Corruption, its reporting, and reasons for nonreporting in 69 countries

Institutional quality and education (WJP data)



Complaints and education

	Complained about government services	Police abuse	Report police abuse
College	0.045***	-0.004	0.130***
	[0.013]	[0.004]	[0.032]
High/Middle school	0.022	-0.004	0.051*
	[0.013]	[0.004]	[0.026]
Observations	29,820	59,984	3,614
R-squared	0.001	0.000	0.009
Mean Dep. Var.	0.136	0.0638	0.442
Number of countries	31	61	61
Fixed effects	YES	YES	YES

Complaints and education (Autocracies and democracies)

	Complained about government services	Police abuse	Report police abuse
	Panel A: Autocra	cies	
College	0.080**	0.006	0.186**
	[0.026]	[0.009]	[0.062]
High/Middle school	ool 0.045 0.		0.099
	[0.032]	[800.0]	[0.065]
	Panel B: Democra	cies	
College	0.031**	-0.006	0.122***
	[0.012]	[0.005]	[0.036]
High/Middle school	0.013	-0.005	0.045
	[0.012]	[0.004]	[0.028]

Robustness: Crime reporting and education (ICVS)

	Burglary (ICVS)	Report burglary (ICVS)	Attempt	Report Attempt
College	0.021***	0.105***	0.034***	0.044***
	[0.003]	[0.011]	[0.003]	[0.012]
High/Middle school	0.011***	0.056***	0.028***	0.024**
	[0.002]	[0.010]	[0.002]	[0.010]
Observations	126,318	15,289	125,596	13,382
R-squared	0	0.006	0.001	0.001
Mean Dep. Var.	0.128	0.571	0.114	0.305
Num. of countries	<i>7</i> 1	<i>7</i> 1	<i>7</i> 1	<i>7</i> 1
Fixed effects	YES	YES	YES	YES

Robustness: Crime reporting and education (ICVS)

	Robbery	Report Robbery	Fraud	Report Fraud	Theft	Report Theft
College	0.023***	0.091***	0.104***	0.012**	0.084**	0.036**
	[0.002]	[0.016]	[0.003]	[0.005]	[0.003]	[0.009]
High/Middle school	0.019***	0.029**	0.052***	0.014**	0.044**	0.014*
	[0.002]	[0.013]	[0.003]	[0.004]	[0.003]	[0.007]
Observations	126,367	8,546	115,860	24,906	126,162	24,475
R-squared	0.001	0.004	0.008	0	0.005	0.001
Mean Dep. Var.	0.0782	0.356	0.218	0.0505	0.206	0.276
Num. of countries	71	<i>7</i> 1	69	67	<i>7</i> 1	71
Fixed effects	YES	YES	YES	YES	YES	YES

Corruption reporting and education (ICVS)

	Corruption (ICVS)	Report corruption Police (ICVS)	Report corruption other (ICVS)
College	0.096***	0.007	0.011**
	[0.005]	[0.007]	[0.005]
High/Middle school	0.058***	-0.002	0.002
	[0.004]	[0.006]	[0.005]
Observations	46,022	5,324	4,432
R-squared	0.01	0.001	0.001
Mean Dep. Var.	0.118	0.0195	0.0111
Num. of countries	23	23	22
Fixed effects	YES	YES	YES

Corruption reporting and education (TI Barometer)

	Paid a bribe in the last 12 months	Report Corruption
College	0.043***	0.024**
	[0.004]	[0.011]
High/Middle school	0.022***	0.013
	[0.004]	[0.010]
Observations	60,184	10,179
R-squared	0.00	0.00
Mean Dep. Var.	0.177	0.198
Num. of countries	62	62
Fixed effects	YES	YES

Conclusion

- Educated people complain more
- Seems to be the effect of education, not just income or trust

- Probably know rules better, and fear less
- Might explain institutional improvement

Another view: government is just like a business

Businesses are unproductive in poor countries,
 perhaps because of bad management, and so are governments

□ How can we test?

- We propose an objective indicator of government efficiency:
 - Performance of the mail system returning an incorrectly addressed international letter.
 - Measure the share of letters we got back, and how long it took to get them back, in each of 159 countries, and analyze correlates of these measures of postal efficiency.
- Our approach to measuring government efficiency has two key advantages:
 - Simple and universal government service
 - □ Free from political economy influences, corruption plays no role

The Experiment

- Between December 2010 and February 2011 we sent 10 letters to non-existent business addresses in 159 countries: 2 letters in each country's largest 5 cities.
- The addresses included an existent city and zip code (where available), but a non-existent business name and street address.
- Each envelope
 - Had a typed up address using the Latin alphabet (as required by international postal conventions) and
 - Included a return address and a clear request to "please return to sender if undeliverable." All countries subscribe to an international postal convention requiring them to return the letters posted to an incorrect address.
- The letter was a one page business letter in English requesting a response from the recipient. Nothing else in to avoid the temptation to open and steal (see Castillo et al. 2011).
- Stopped keeping track of returns a year after the final postings from Cambridge MA (i.e, Feb 4, 2012).

The Letters

Professor Rafael La Porta Tuck School of Business at Dartmouth 100 Tuck Hall Hanover, NH 03755

PLEASE RETURN TO SENDER IF UNDELIVERABLE

SUSTRUM MA OUT

29 DEC 3010 PM 17 T



Gakere Michuki
Smart Computer Services
Tobin Rd 1048
Eldoret
KENYA

1-3-2012

ATS.

RE TURN

NIXIE 100

01 12/22/11

RETURN TO SENDER OTHER REASON UNABLE TO FORWARD

BC: 03755900000

*1721-20889-29-32

Manufaladaladaladadadadadadadadadada

00240+0001 03755@9000

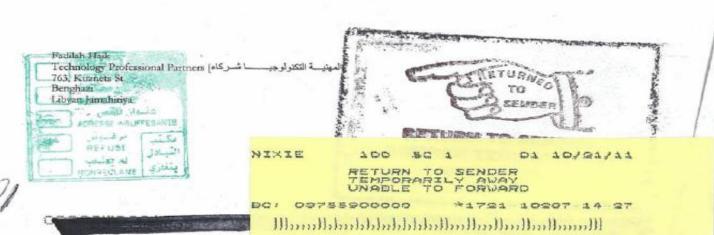
Porta iness at Dartmouth

TO SENDER IF UNDELIVERABLE

BOSTOM MA DO

14 DEC 2010 FW 17 1





The Letters



a Porta siness at Dartmouth

TO SENDER IF UNDELIVERABLE

lio Helpández Supply Management United 71 Avenida Simon Camaguey 3 CP 70200 Camaguey CUBA

00470-70001

BOSTON MA DOI

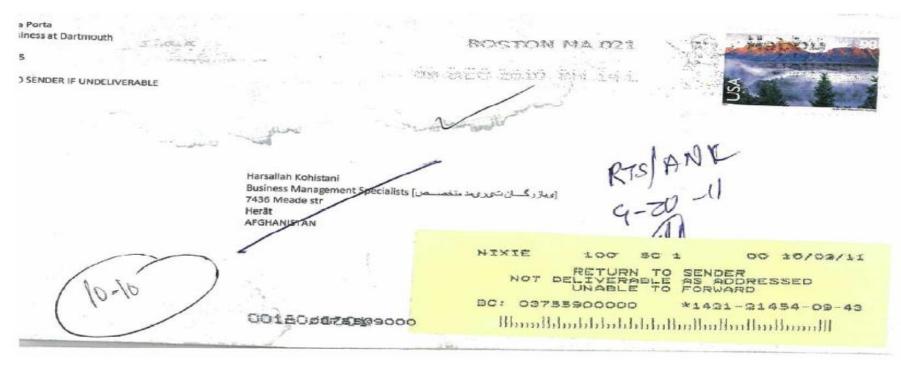
AND APPLAL WARRY FOR 29 1-



INT

Donland all all all all all and and all all

The Letters



Professor Rafael La Porta Tuck School of Business at Dartmouth too Tuck Hall Hanover, NH 03755

PLEASE RETURN TO SENDER IF UNDELLIVERABLE

1-3-2012

Reagan Urbano Services Professionals United Avenida Kantorovich 8 Luanda REPÚBLICA DE ANGOLA

002440478899000

0 2 700

NIXIE 100 SE 1 DD 12/29/11

NOT DELIVERABLE AS ADDRESSED UNABLE TO FORWARD BC: 09755900000 *1821-08245-21-44

Manallatarialatarialatarilarilarilarilarilarilarilarilari

Figure 1

This figure presents the text of the one-page letter that was sent to each of the 10 recipients in the largest 5 cities in all 159 countries

December 1, 2010 Re: Confidential

URGENT RESPONSE REQUESTED

Rafael La Porta Tuck School of Business at Dartmouth 100 Tuck Hall Hanover, NH 03755, USA

Dear Mr. XXXXX,

I hereby confirm receipt of the previous correspondence.

Please let me know if you would like to continue with the collaboration project.

I will wait to hear from you, but please respond as soon as possible as this matter is of absolute importance.

Regards,

Rafael La Porta

Letters' Data for Two Countries

Letter ID	Name	Street Address	Postcode and City	Date letter sent	Date letter received	Date of limit (02/04/2012)	Got it back	Got it back in 90 days	Number of days
Zetter IZ	T (all le	Street Hadress	1 soccode and only		Tocorrea	(02/01/2012)	Such	m oo aayo	(up to limit of
			P	Panel A: Letters	sent to the Cze	ch Republic			
CZE_0	Zdenek Dvořák	Debreuská 1	110 00 Praha	09/12/2010	07/03/2011	04/02/2012	1	1	88.00
CZE_2	Vaclav Veselý	Meadeská 4	602 00 Brno	09/12/2010	08/03/2011	04/02/2012	1	1	89.00
CZE_6	Milan Růžička	Haavelmoská 2	301 00 Plzeň-Jižní	11/12/2010	04/01/2011	04/02/2012	1	1	24.00
CZE_3	Petr Svoboda	Buchananova 1704	602 00 Brno	14/12/2010	04/03/2011	04/02/2012	1	1	80.00
CZE_1	Jiri Kučera	Frischova 7526	120 00 Praha 2	15/12/2010	03/02/2011	04/02/2012	1	1	50.00
CZE_8	Milos Novotný	Millerská 7400	460 01 Liberec IV-Perštýn	29/12/2010	25/01/2011	04/02/2012	1	1	27.00
CZE_5	Jan Sedlářek	Lewisova 4051	702 00 Moravská Ostrava	29/12/2010	08/03/2011	04/02/2012	1	1	69.00
CZE_9	Kazimir Svoboda	Markowitzova 6404	460 07 Liberec III	31/12/2010	31/01/2011	04/02/2012	1	1	31.00
CZE_7	Kazimir Pospíšil	Hayekova 7	301 00 Plzeň-Jižní	31/12/2010	02/02/2011	04/02/2012	1	1	33.00
CZE_4	Zdenek Pokorný	Arrowská 48	713 00 Slezská Ostrava	04/02/2011	08/03/2011	04/02/2012	1	1	32.00
Average							1.00	1.00	52.30
				Panel B: L	etters sent to F	Russia			
RUS_0	Roman Avdeyev	Ulitsa Debreuska 8689	gorod Moskva 115487	08/12/2010		04/02/2012	0	0	423.00
RUS_2	Ivan Zhakov	Ulitsa Modiglianaya 6802	Sankt-Peterburg 199178	09/12/2010		04/02/2012	0	0	422.00
RUS_4	Oleg Golikova	Ulitsa Arrowlok 8547	Novosibirsk, Novosibirskaya Obl	10/12/2010		04/02/2012	0	0	421.00
RUS_6	Fillyp Zubkov	Ulitsa Haavelmo ave 3	Ekaterinburg, Sverdlovskaya Obl	11/12/2010		04/02/2012	0	0	420.00
RUS_3	Dmitri Avdeyev	Ulitsa Ohlinov 2	Sankt-Peterburg 199178	13/12/2010		04/02/2012	0	0	418.00
RUS_8	Oleg Skryannik	Ulitsa Myrdalok 983	Nizhnij Novgorod, Nizhegorodskaya Obl	13/12/2010		04/02/2012	0	0	418.00
RUS_5	Pavel Ivanov	Ulitsa Allaiska 45	Novoe Devyatkino, Leningradskaya Obl	14/12/2010		04/02/2012	0	0	417.00
RUS_7	Ivan Zhakov	Ulitsa Hayeka 63	Ekaterinburg, Sverdlovskaya Obl	14/12/2010		04/02/2012	0	0	417.00
RUS_1	Eduard Zhakov	Ulitsa Frischpik 402	gorod Moskva 101000	15/12/2010		04/02/2012	0	0	416.00
RUS_9	Ludvig Sobyanin	Ulitsa Stiglerova 2709	Nizhnij Novgorod, Nizhegorodskaya Obl	15/12/2010		04/02/2012	0	0	416.00
Average							0.00	0.00	418.80

Mail Efficiency (Table 1)

	P	Panel B: Full sample med	ans	
Full sample (159)	0.5931	0.3535	228.22	
	Panel C: Means by GDP per capita			
High income (39)	0.8487 ^a	0.6000 ^a	125.91 ^a	
Upper middle income (38)	0.6684	0.4316 ^c	196.27 ^c	
Lower middle income (39)	0.5590	0.3026	245.99	
Low income (38)	0.3211 ^a	0.0921 ^a	336.02 ^a	
	Panel D: Means	by avgerage number of	years of schooling	
Above median years of schooling (72)	0.7528 ^a	0.5208 a	164.48 ^a	
Below median years of schooling (84)	0.4607	0.2120	281.65	

Notes:

Number of countries in parentheses.

Significance levels: (a) if p<0.01; (b) if p<0.05; (c.) if p<0.10.

Mail Production Function (Table 3)

	Got it back		
Ln permanent offices percapita	0.0983a [0.017]		
Ln postal staff percapita	. ,	0.0957a [0.016]	
Postcodes databases	0.2472a [0.063]	0.1800b [0.070]	
Alphabet used is Latin-based	0.1231b [0.048]	0.1077b [0.047]	
Constant	-0.0051 [0.067]	-0.1287 [0.084]	
Observations R-squared	157 0.42	157 0.42	

Robust standard errors in brackets a p<0.01, b p<0.05, c p<0.1

Mail Efficiency and Management Quality (Table 4)

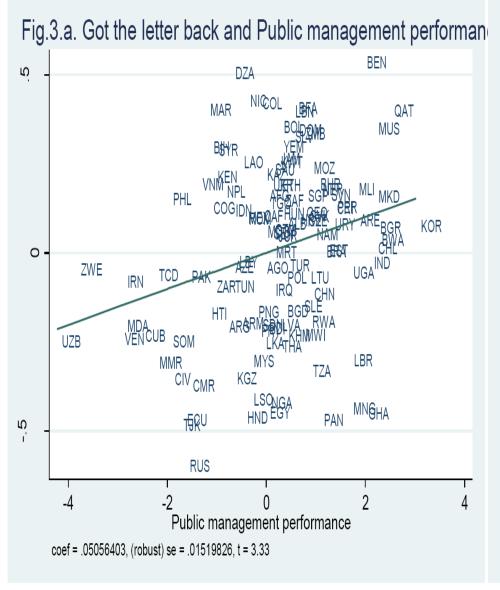
	Got letter back					
Ln permanent offices pc	0.070a (0.019)	0.100a (0.017)	0.097a (0.016)	0.086a (0.019)		
Postcode database	0.166b (0.078)	0.146b (0.061)	0.091 (0.060)	0.134c (0.074)		
Alphabet used is Latin-based	0.072 (0.052)	0.138a (0.049)	0.121b (0.047)	0.150a (0.050)		
Public Mgmt performance	0.051a (0.015)	(0.0.20)	(3.3.2.)	(3.3.3.7)		
Will to delegate authority	(33323)	0.059b (0.025)				
Quality of Mgmt schools			0.110a (0.024)			
Innovation capacity index				0.064b (0.025)		
Constant	-0.133c (0.075)	-0.170 (0.106)	-0.360a (0.111)	-0.101 (0.095)		
Observations Adjusted <i>R</i> ²	117 0.39	136 0.39	136 0.44	133 0.38		
Adjusted R^2 without management variable	0.35	0.37	0.37	0.36		

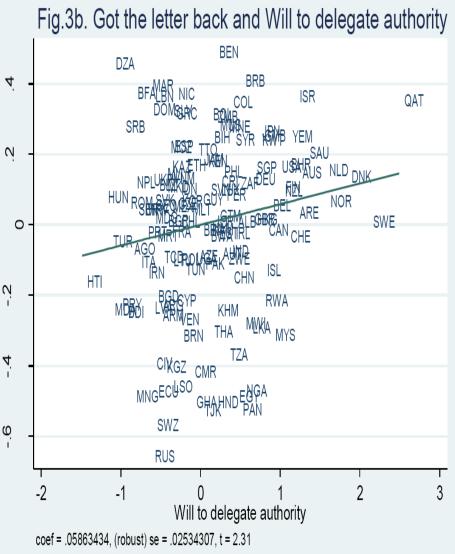
Mail Efficiency and Management Practices (Table 5)

	Got it back				
Ln permanent offices percapita	0.1318	0.1117	0.1358c	0.1510	
Postcodes databases	[0.081]	[0.077]	[0.075]	[0.087]	
Postcodes databases	0.0817 $[0.141]$	0.1044 $[0.120]$	0.0795 [0.134]	0.1309 [0.194]	
Alphabet used is Latin-based	0.0143	0.0004	0.0315	0.0275	
1	[0.091]	[0.077]	[0.092]	[0.128]	
Management practices	0.3789ь				
Monitoring management	[0.138]	0.3471a			
Targets management		[0.106]	0.2890ь [0.130]		
Incentives management			[5,555]	0.2401 [0.167]	
Constant	-1.0360c [0.574]	-0.9081c [0.487]	-0.7976 [0.493]	-0.7444 [0.613]	
Observations	16	16	16	16	
R-squared	0.67	0.72	0.64	0.59	
Adj. R-squared	0.55	0.61	0.51	0.44	
P. squared w/o Management	0.55	0.55	0.55	0.55	
R-squared w/o Management Adj. R-squared w/o Management	0.43	0.43	0.43	0.43	

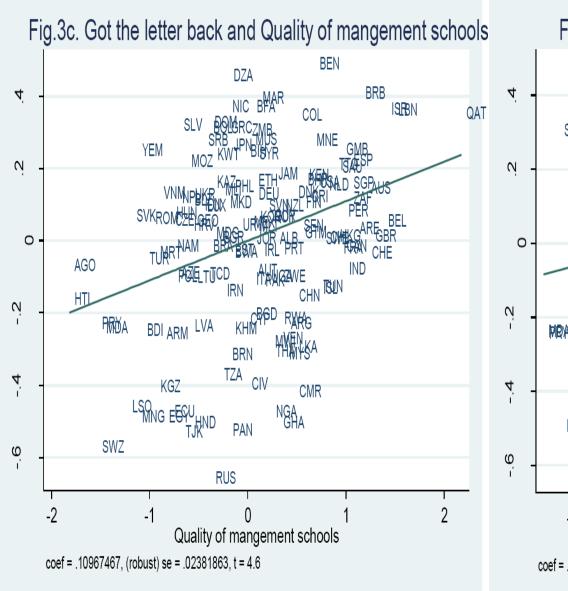
Robust standard errors in brackets a p<0.01, b p<0.05, c p<0.1

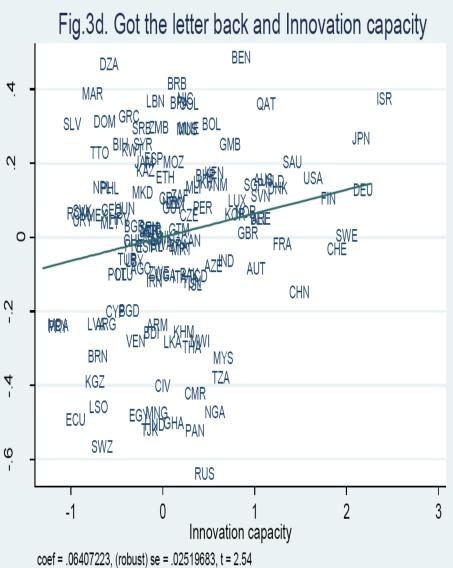
Mail Efficiency and Management Quality (Fig.3)





Mail Efficiency and Management Quality (Fig.3)





Mail Efficiency and Management Practices (Fig.4)

USA

SWE



Mail Efficiency and Management Practices (Fig.4)



Conclusion

- New objective measures for the quality of government in 159 countries, those based on return of incorrectly addressed international mail.
 - Measures correlate with other indicators of the quality of government, yet have the advantage that we know more precisely what goes into them.
- An important reason for poor government in developing countries is not corruption or patronage, but rather the same basic low productivity that plagues the private sector.
 - Such low productivity is related to inputs and technology, but also to management.
 - Not all bad government is caused by politics!