State Capacity, Politicization, and Why it Matters in Brazil

(with some very tentative comparison to the US federal government)

Matthew M. Taylor, School of International Service, American University

The centrality of Brazil in the literature on islands of excellence and state capacity

Capacity and Autonomy

Cardoso 1975 | Evans 1992 | Haggard and Kaufman 1992

Islands of excellence in a sea of patronage and clientelism

Martins 1985 | Willis 1986 | Schneider 1987 | Geddes 1994 | Evans 1995 | Whitehead 2006

'The politician's dilemma'

Geddes 1994

Concept and Data: Mapping the Archipelago of Excellence in Brazil

A professional bureaucracy able to implement policy without undue external influence."

MEASURES OF AGENCY CAPACITY AND POLITICAL AUTONOMY

Database 300,000 federal civil servants.

Data source crossing individual civil service data with electoral court data.

Scope 95 most significant federal agencies.

Aggregation Bayesian latent variable analysis.

Indicators of Capacity and Political Autonomy

Capacity

the degree to which core state agencies are characterized by meritocratic recruitment and offer predictable, rewarding longterm careers."

Career strength: Proportion of civil servants in either core or expert careers

Career specialization A: Average longevity in civil service

Career specialization B: Civil servants requisitioned from other agencies

Career specialization C: Average salary for civil servants within agency

Autonomy

the extent to which they have their own interests and values distinguishable from those of other institutions and social forces."

Proportion of low-level DAS appointments filled by party members

Proportion of high-level DAS appointments filled by party members

Proportion of regular civil servants that are party members

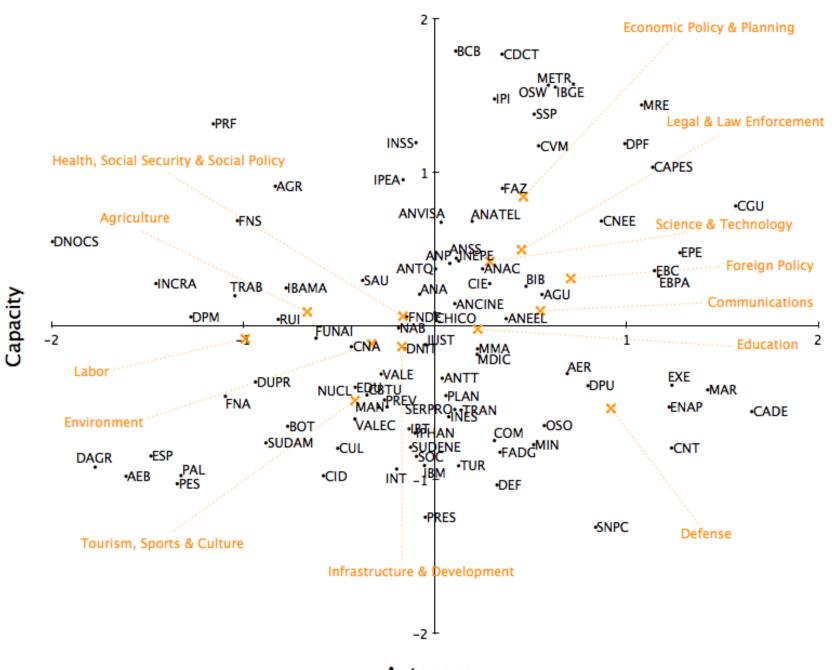
State Capacity and Political Autonomy

Confirmatory factor analysis confirms that capacity and autonomy are empirically distinct dimensions.

Bayesian latent variable approach (Treier & Jackman 2008)

- 1. Agnostic as to normative preferences
- 2. Resolves indexation problem

attempts to express each variable as the sum of common and unique portions, attempting to find the solution that maximizes the portion explained by the common factor."

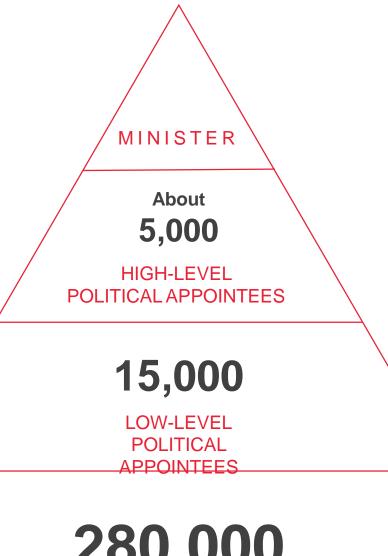


Autonomy

Partisan Dominance

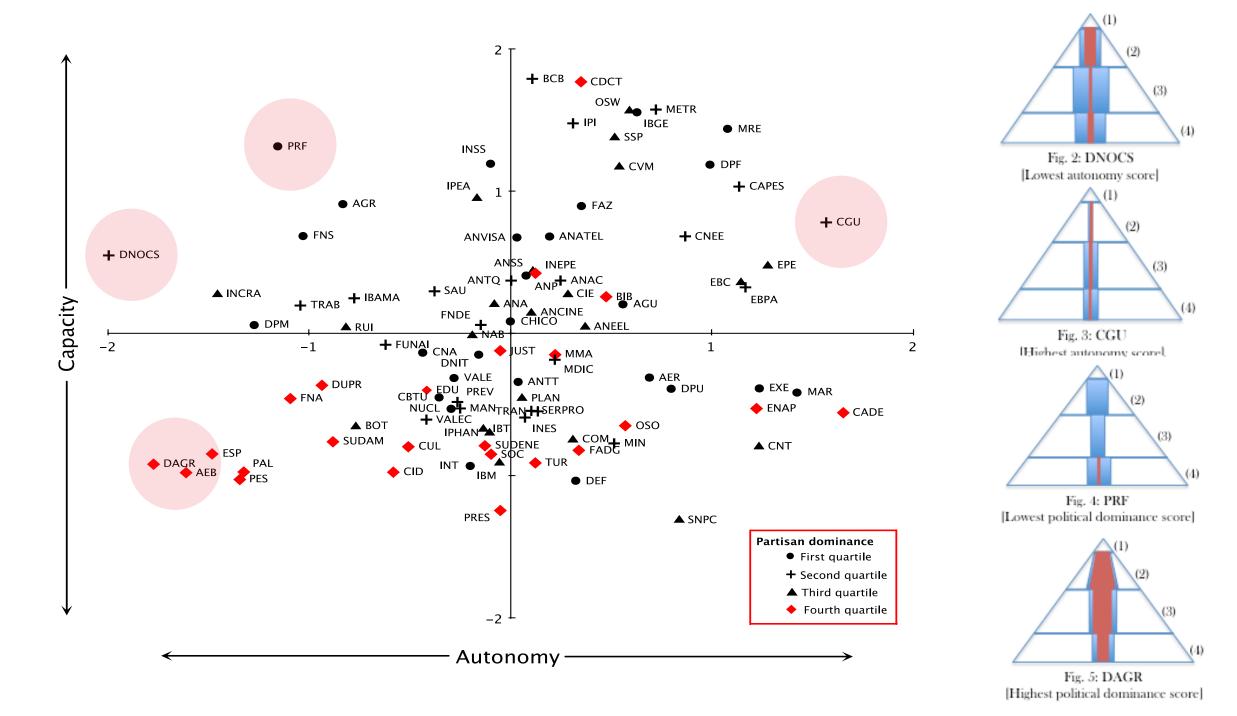
Percentage of employees affiliated to the dominant party

Correlations between Capacity, Autonomy, and Partisan Dominance are low



280,000

CIVIL SERVANTS



Reported Corruption: Media Mentions of Corruption

A Procuradoria da República no Dis-

trito Federal montou força-tarefa pa- • Citados negam irregularidades

emaportes financeiros feitos por enticitados na investigação da Procuradoria

dades públicas em 52 grandes emprenegaram envolvimento nos esquemas

ra investigar suspeita de corrupção As empresas e os agentes públicos

Procuradores investigam se esquemas descobertos em três diferentes operações estão ligados ao mesmo grupo criminoso, do qual fariam parte Cunha e Geddel

Media Mentions of Corruption in the O Estado de S. Paulo newspaper

Reported Corruption: count of newspaper stories on corruption within each agency appearing in the O Estado de S. Paulo newspaper over the decade beginning in 2002.



cos e empresários. Procuradores apu-

ram se investimentos do FGTS, da Vi-

ce-Presidência de Pessoa Jurídica da

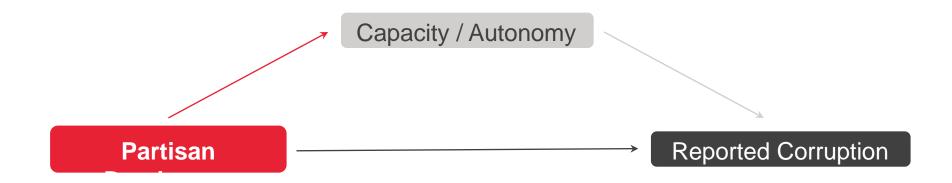
Caixa, de fundos de pensão e de insti-

tuições previdenciárias municipais e

Harvard, Procurador Deltan Dallagnol festeja conclusão de mes

O TEÓRICO DA LAVA JATO

Core Variables and Reported Corruption



- Core variables are each associated with higher levels of corruption and are statistically significant.
- Capacity mediates the effect of Partisan Dominance on Reported Corruption
- Fewer political employees decreases Reported Corruption, but a strongly dominant party weakens that effect.

Findings

- A "proof of concept" about the utility of agency-level measures
 - Objective, not subjective
 - Individual rather than institutional characteristics
 - Differentiation between autonomy and capacity
 - + Within-country comparative measure and inexpensive, too!

Key Findings

Politicization of the bureaucracy has detrimental effects on governance.

Building up the capacity and autonomy of the bureaucracy may provide a partial antidote (policy legacies matter!).

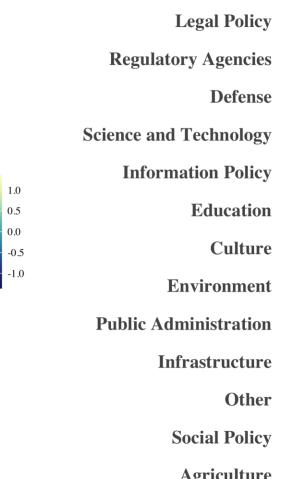
Competition between political parties within an agency may serve to check the worst impulses of a dominant party.

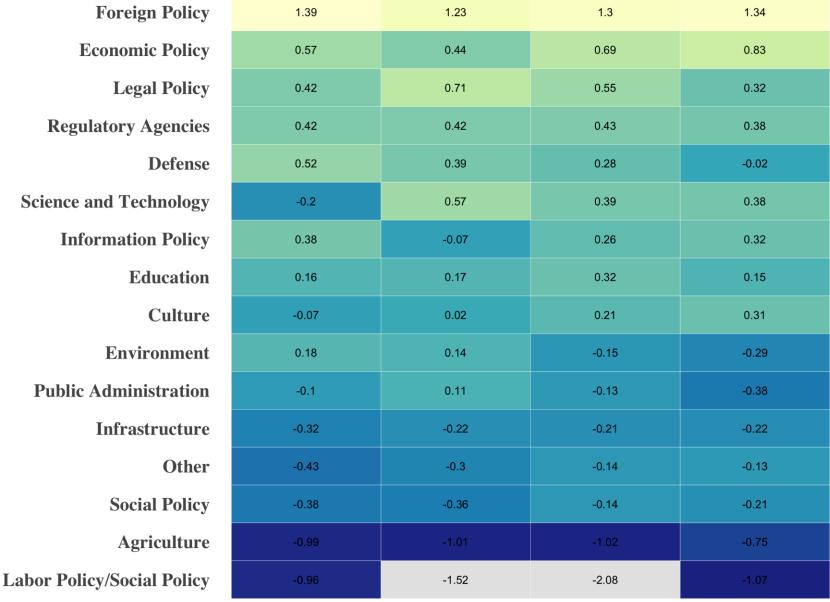
Next steps

Longitudinal

Cross-national

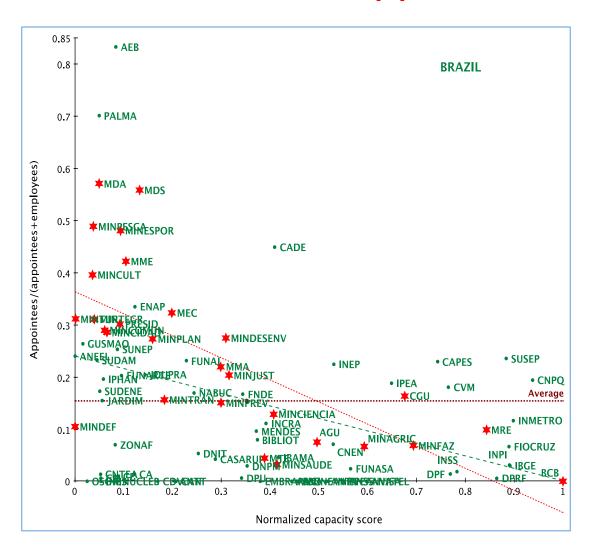
Longitudinal: **Political** Autonomy Policy Area (2011-2017)

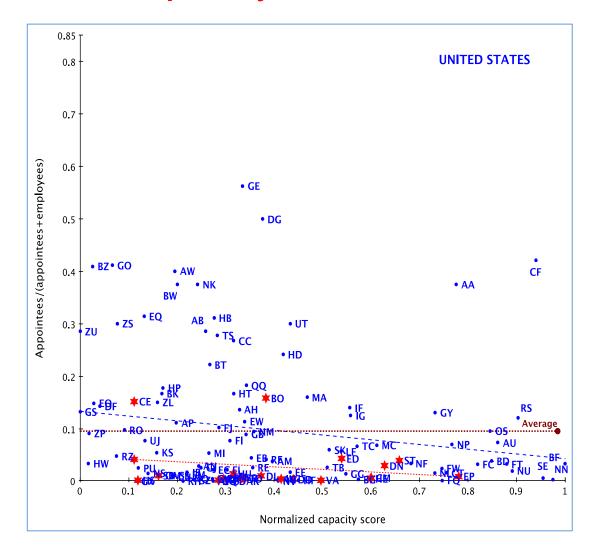




Bersch 2017 2011 2013 2015

Cross-national: Appointments and Capacity

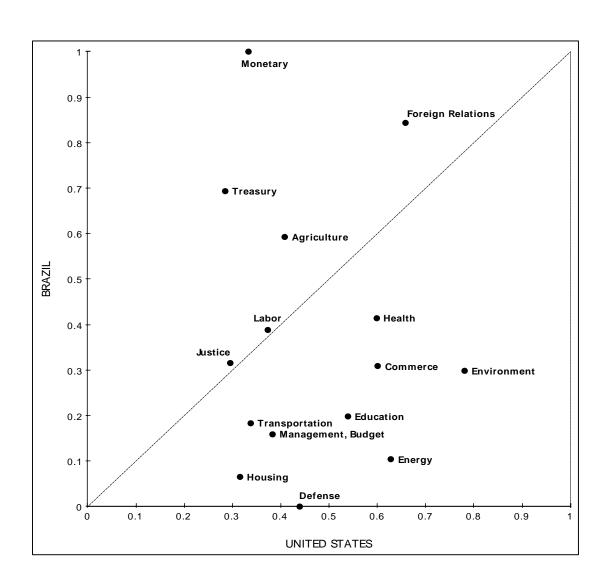




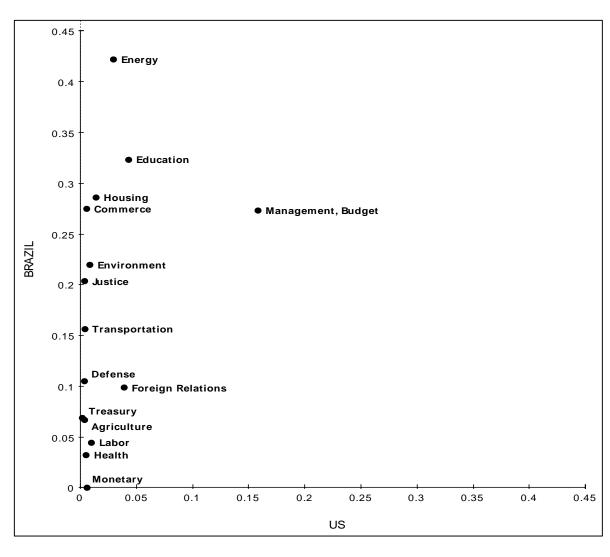
Thank you.

mtaylor@american.edu

Normalized cabinet pairings



Appointments, proportionally



Different logics of capacity building and appointment

- Education
- Sources of innovation
- Wages and bureaucratic expertise
- Incentives of the political organizational context

1 of 3

Table 2: Effect of Core Independent Variables on Reported Corruption

	(1)	(2)	(3)	(4)
(Intercept)	-6.20*	-4.24^{\dagger}	-3.84	-4.02^{\dagger}
	(2.58)	(2.39)	(2.37)	(2.36)
Partisan Dominance	3.50^{*}	. ,	, ,	$0.47^{'}$
	(1.70)			(1.69)
Capacity		-0.94***		-0.63^{*}
		(0.27)		(0.28)
Autonomy		, ,	-1.21***	-0.98***
_			(0.25)	(0.25)
Budget (logged)	0.31**	0.26*	0.25^*	0.25^{*}
	(0.12)	(0.11)	(0.11)	(0.11)
Employees (thousands)	0.04	0.06^{\dagger}	0.02	0.04
,	(0.04)	(0.04)	(0.03)	(0.03)
Leadership Turnover	0.81	0.45	-0.04	0.14
	(0.83)	(0.81)	(0.78)	(0.77)
Theta	0.30***	0.32***	0.36***	0.38***
	(0.05)	(0.06)	(0.07)	(0.07)
N	91	91	91	91
AIC	467.54	462.61	456.57	455.95
BIC	527.81	522.87	516.83	536.30
$\log L$	-209.77	-207.30	-204.28	-195.97

 $^{^{\}dagger}$ significant at $p<.10;\;^*p<.05;\;^{**}p<.01;\;^{***}p<.001$

2 of 3

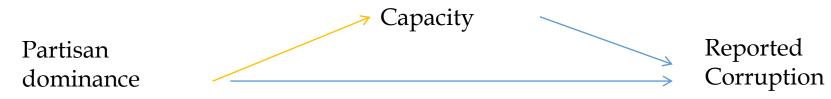


Table 3: Testing Relationships Between Core Independent Variables

	Assessing Capacity as an Intervening Variable				Interactions	
	Capacity	Reported Corruption		Reported Corruption		
	(5)	(6)	(7)	(8)	(9)	
(Intercept)	0.33	-6.20*	-4.88*	-4.94^{\dagger}	-5.70*	
	(0.96)	(2.58)	(2.49)	(2.57)	(2.56)	
Partisan Dominance	-2.28***	3.50*	1.20	1.40	2.76	
	(0.63)	(1.70)	(1.76)	(2.37)	(1.93)	
Capacity			-0.85**	-1.13		
			(0.29)	(0.75)		
Partisan Dom. x Capacity				1.08		
				(2.78)		
Autonomy					-2.42***	
					(0.57)	
Partisan Dom. x Autonomy	•				4.59**	
					(1.77)	
Budget (logged)	0.00	0.31**	0.28*	0.28*	0.30**	
	(0.04)	(0.12)	(0.11)	(0.11)	(0.11)	
Employees (thousands)	0.03*	0.04	0.07†	0.07^{\dagger}	0.02	
	(0.01)	(0.04)	(0.04)	(0.04)	(0.03)	
Leadership Turnover	0.28	0.81	0.53	0.60	0.43	
	(0.30)	(0.83)	(0.81)	(0.82)	(0.77)	
Theta		0.30***	0.32***	0.33***	0.38***	
		(0.05)	(0.06)	(0.06)	(0.07)	
N_{\perp}	94	91	91	91	91	
R^2	0.24					
adj. R^2	0.20					
Resid. sd	0.70					
AIC		467.54	464.29	466.17	457.31	
BIC		527.81	534.59	546.52	537.66	
$\log L$		-209.77	-204.15	-201.08	-196.66	

 $^{^\}dagger$ significant at $p<.10;\, ^\star p<.05;\, ^{\star\star}p<.01;\, ^{\star\star\star}p<.001$

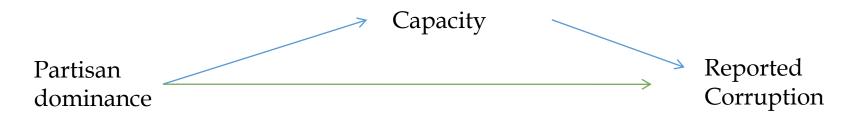


Table 3: Testing Relationships Between Core Independent Variables

	Assessing Capacity as an Intervening Variable			Interactions	
	Capacity	Reported Corruption		Reported Corruption	
	(5)	(6)	(7)	(8)	(9)
(Intercept)	0.33	-6.20*	-4.88*	-4.94^{\dagger}	-5.70*
	(0.96)	(2.58)	(2.49)	(2.57)	(2.56)
Partisan Dominance	-2.28***	3.50*	1.20	1.40	2.76
	(0.63)	(1.70)	(1.76)	(2.37)	(1.93)
Capacity			-0.85**	-1.13	
			(0.29)	(0.75)	
Partisan Dom. x Capacity				1.08	
				(2.78)	
Autonomy					-2.42***
					(0.57)
Partisan Dom. x Autonomy					4.59**
					(1.77)
Budget (logged)	0.00	0.31**	0.28*	0.28*	0.30**
_ , ,	(0.04)	(0.12)	(0.11)	(0.11)	(0.11)
Employees (thousands)	0.03*	0.04	0.07^{\dagger}	0.07^{\dagger}	0.02
	(0.01)	(0.04)	(0.04)	(0.04)	(0.03)
Leadership Turnover	0.28	0.81	0.53	0.60	0.43
	(0.30)	(0.83)	(0.81)	(0.82)	(0.77)
Theta		0.30***	0.32***	0.33***	0.38***
		(0.05)	(0.06)	(0.06)	(0.07)
N	94	91	91	91	91
R^2	0.24				
adj. R^2	0.20				
Resid. sd	0.70				
AIC		467.54	464.29	466.17	457.31
BIC		527.81	534.59	546.52	537.66
$\log L$		-209.77	-204.15	-201.08	-196.66

 $^{^\}dagger$ significant at $p<.10;\; ^\star p<.05;\; ^{\star\star}p<.01;\; ^{\star\star\star}p<.001$

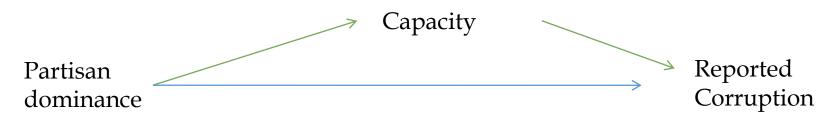


Table 3: Testing Relationships Between Core Independent Variables

Table 3. Testing Relation		pacity as an In	Interactions		
	Capacity	Reported Corruption		Reported Corruption	
	(5)	(6)	(7)	(8)	(9)
(Intercept)	0.33	-6.20*	-4.88*	-4.94^{\dagger}	-5.70*
	(0.96)	(2.58)	(2.49)	(2.57)	(2.56)
Partisan Dominance	-2.28***	3.50*	1.20	1.40	2.76
	(0.63)	(1.70)	(1.76)	(2.37)	(1.93)
Capacity			-0.85**	-1.13	
			(0.29)	(0.75)	
Partisan Dom. x Capacity				1.08	
				(2.78)	
Autonomy					-2.42***
					(0.57)
Partisan Dom. x Autonomy					4.59**
					(1.77)
Budget (logged)	0.00	0.31**	0.28*	0.28*	0.30**
	(0.04)	(0.12)	(0.11)	(0.11)	(0.11)
Employees (thousands)	0.03*	0.04	0.07†	0.07^{\dagger}	0.02
	(0.01)	(0.04)	(0.04)	(0.04)	(0.03)
Leadership Turnover	0.28	0.81	0.53	0.60	0.43
	(0.30)	(0.83)	(0.81)	(0.82)	(0.77)
Theta		0.30***	0.32***	0.33***	0.38***
		(0.05)	(0.06)	(0.06)	(0.07)
N	94	91	91	91	91
R^2	0.24				
adj. R^2	0.20				
Resid. sd	0.70				
AIC		467.54	464.29	466.17	457.31
BIC		527.81	534.59	546.52	537.66
$\log L$		-209.77	-204.15	-201.08	-196.66

 $^{^{\}dagger}$ significant at $p<.10;\;^{\star}p<.05;\;^{\star\star}p<.01;\;^{\star\star\star}p<.001$

3 of 3

Partisan Dominance x Autonomy

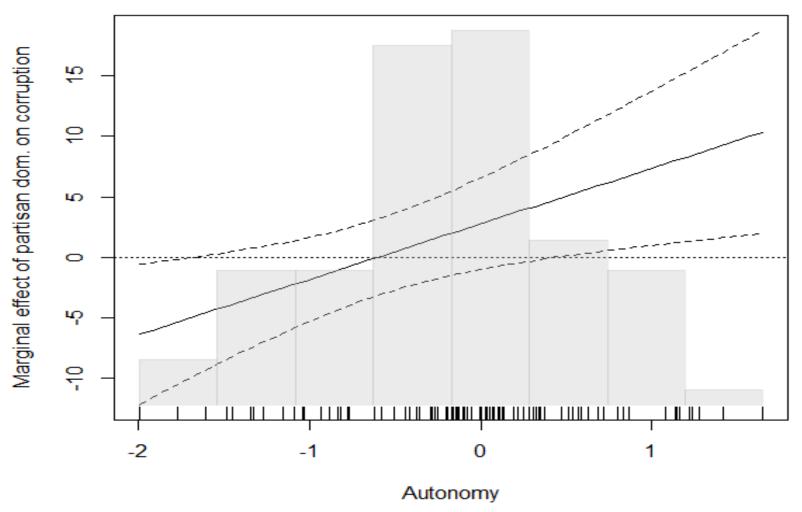
Table 3: Testing Relationships Between Core Independent Variables

	Assessing Capacity as an Intervening Variable			Interactions	
	Capacity	Reported Corruption		Reported C	Corruption
	(5)	(6)	(7)	(8)	(9)
(Intercept)	0.33	-6.20*	-4.88*	-4.94^{\dagger}	-5.70*
	(0.96)	(2.58)	(2.49)	(2.57)	(2.56)
Partisan Dominance	-2.28***	3.50*	1.20	1.40	2.76
	(0.63)	(1.70)	(1.76)	(2.37)	(1.93)
Capacity			-0.85**	-1.13	
			(0.29)	(0.75)	
Partisan Dom. x Capacity				1.08	
				(2.78)	
Autonomy					-2.42***
					(0.57)
Partisan Dom. x Autonomy					4.59**
					(1.77)
Budget (logged)	0.00	0.31**	0.28*	0.28*	0.30**
	(0.04)	(0.12)	(0.11)	(0.11)	(0.11)
Employees (thousands)	0.03*	0.04	0.07†	0.07^{\dagger}	0.02
	(0.01)	(0.04)	(0.04)	(0.04)	(0.03)
Leadership Turnover	0.28	0.81	0.53	0.60	0.43
	(0.30)	(0.83)	(0.81)	(0.82)	(0.77)
Theta		0.30***	0.32***	0.33***	0.38***
		(0.05)	(0.06)	(0.06)	(0.07)
N	94	91	91	91	91
R^2	0.24				
adj. R^2	0.20				
Resid. sd	0.70				
AIC		467.54	464.29	466.17	457.31
BIC		527.81	534.59	546.52	537.66
$\log L$		-209.77	-204.15	-201.08	-196.66

 $^{^{\}dagger}$ significant at $p<.10;\;^{\star}p<.05;\;^{\star\star}p<.01;\;^{\star\star\star}p<.001$

 $H_{Partisan \mid Autonomy}$: The marginal effect of Partisan Dominance on Reported Corruption will be positive at all values of Autonomy; this effect will be weakest, though, when Autonomy is at its lowest and strengthens in magnitude as Autonomy increases.

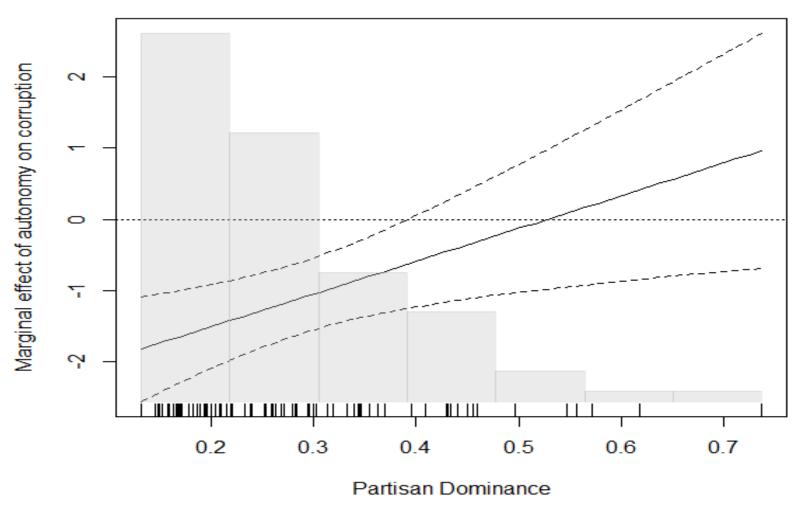
(a) Relationship between Partisan Dominance and Corruption for different levels of Autonomy



27

 $H_{Autonomy|Partisan}$: The marginal effect of Autonomy on Corruption is negative at all levels of Partisan Dominance. This negative effect is strongest when Partisan Dominance is low and weakens as Partisan Dominance increases.

(b) Relationship between Autonomy and Corruption for different levels of Partisan Dominance



Partisan Dominance x Autonomy

- *Partisan Dominance* is associated with higher *Reported Corruption*, but only when agencies have fewer political employees overall (high *Autonomy*).
- Having fewer political employees (greater *Autonomy*) decreases *Reported Corruption*, but a strongly dominant party weakens that effect.

Key Findings 1: Core variables and Reported Corruption

Low capacity, low autonomy, and high partisan dominance are each associated with higher levels of corruption and are statistically significant.

Table 2. Lineer of Core	Table 2. Effect of Core independent variables on Reported Corruption						
	(1)	(2)	(3)	(4)			
(Intercept)	-6.20*	-4.24^{\dagger}	-3.84	-4.02^{\dagger}			
	(2.58)	(2.39)	(2.37)	(2.36)			
Partisan Dominance	3.50^{*}			0.47			
	(1.70)			(1.69)			
Capacity		-0.94***		-0.63^{*}			
		(0.27)		(0.28)			
Autonomy		` ′	-1.21***	-0.98^{***}			
-			(0.25)	(0.25)			
Budget (logged)	0.31**	0.26*	0.25^*	0.25^{*}			
,,	(0.12)	(0.11)	(0.11)	(0.11)			
Employees (thousands)	0.04	0.06^{\dagger}	0.02	0.04			
,	(0.04)	(0.04)	(0.03)	(0.03)			
Leadership Turnover	0.81	0.45°	$-0.04^{'}$	0.14			
	(0.83)	(0.81)	(0.78)	(0.77)			
Theta	0.30***	0.32***	0.36***	0.38***			
	(0.05)	(0.06)	(0.07)	(0.07)			
N	91	91	91	91			
AIC	467.54	462.61	456.57	455.95			

522.87

-207.30

516.83

-204.28

536.30

-195.97

Table 2: Effect of Core Independent Variables on Reported Corruption

Standard errors in parentheses

BIC

 $\log L$

527.81

-209.77

[†] significant at p < .10; *p < .05; **p < .01; ***p < .001

The Model

Let i=1,..., n index agencies and j=1,..., m index the state capacity indictors (i.e. A1-C3). The equation and prior take the form:

$$\mu_{ij} = \gamma_{j0} + \gamma_{j1} * X_i$$

$$\gamma_{ij} \sim N(\mu_{ij}, \sigma^2)$$

$$x^*_i \sim N(0, 1)$$

$$\gamma_{j0} \gamma_{j1} \sim N(0, 100)$$

$$\sigma \sim U(0, 100)$$

where x_i is the latent level of agency capacity in agency i and γ_{ij} is the i-th agency's score on indicator j. We specify vague priors for γ_{j0} and γ_{j1} , to reflect the absence of prior information about these indicators. Following Gelman's (2006) recommendation, we put a uniform prior on the standard deviation over a large range, 0-100. Further, in order to estimate this model and to prevent shifts in location and scale for the latent traits, we constrain x_i to have mean zero and a variance of 1.