Monetary Constraints, Spending, and Autocratic Survival in Party-Based Regimes

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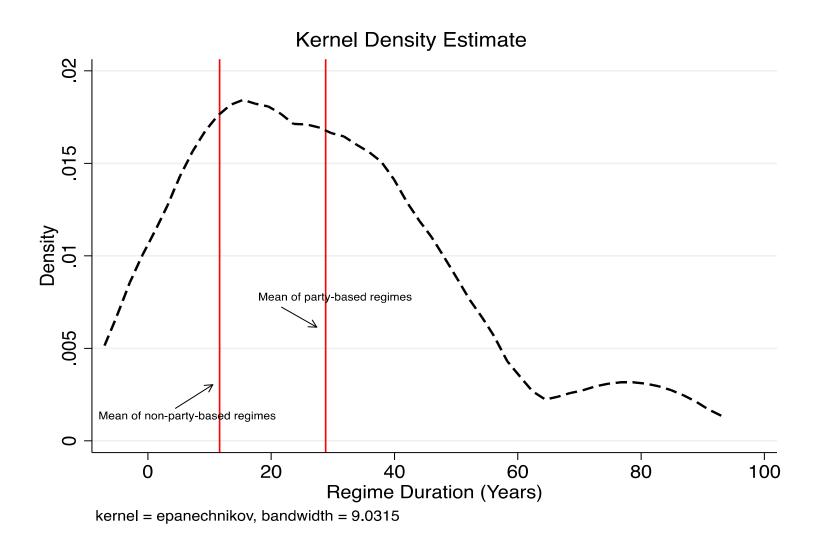
Masaaki Higashijima Tohoku University and University of Michigan

Research question

Under what conditions do dominant party dictatorships collapse?

Puzzle

- Dominant party regimes last longerBUT Variation in duration of dominant-party dictatorships



Upshots

Argument:

Dominant party autocracies are more likely to collapse when autocrats face strong monetary constraints making it harder to spend

Methods:

Cross-national analysis of 94 autocracies (1970-2012)

Findings:

- 1. Autocracies tend to breakdown when the level of legal CBI is high but only under party-based regimes (robust to IV estimations)
- 2. High legal CBI is negatively correlated with fiscal expenditures only under party-based dictatorships

Dominant party autocracies

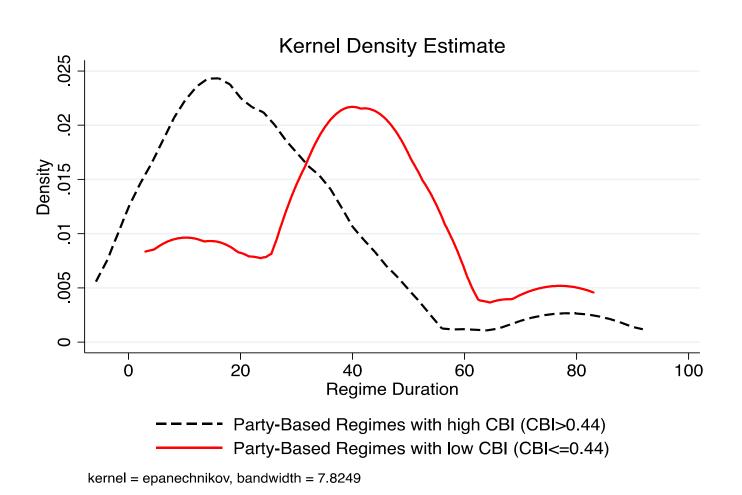
"Control over policy, leadership selection, and the security apparatus is in the hands of a ruling party" (Geddes et al. 2014: 318)

Two main functions:

- 1. Collective decision making within the party to solve commitment problems between the dictator and elites (Magaloni 2008; Svolik 2012)
- 1. Extensive, efficient patronage distribution to party members via party networks (Magaloni and Kricheli 2010; Greene 2010) = heavy reliance on party supporters to maintain rule)
- ⇒ Literature **assumes** the two functions work together to prolong the regimes

Our point

In some cases elite-level power-sharing constraint makes it harder for dictators to spend and buy-off supporters via party networks



When CBI meets with dominant party...

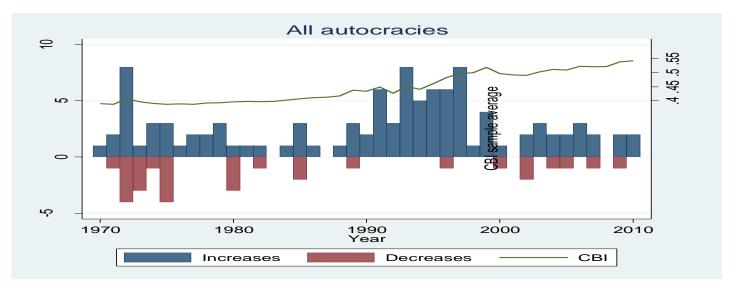
De jure CBI can be effective to prevent dictators' fiscal spending in dominant-party regimes. This makes regime breakdown more likely

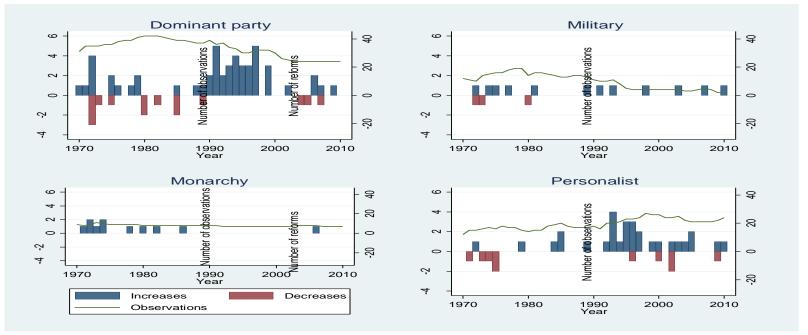
Mechanisms:

- Collective decision-making within the party imposes a variety of checks on the dictator, which work as veto points (Frantz and Ezrow 2011; Gehlbach and Keefer 2012)
- Constraints make it difficult for dictator to bypass central bankers, limiting dictator's relentless spending to buy-off political support
- The decreased volume of patronage distribution increases potential for autocratic breakdown

CBI in autocracies

Central bank reforms not rare:





Why do autocrats reform the central bank?

1. Try to signal the country's competence on economic issues to attract foreign investors

*creditworthiness (Maxfield 1997); follow the global norm favoring CBI (McNamara 2003, Johnson 2016)

2. Deflect the blame for economic hardships

* "scapegoat" central bankers for their policy failures; Georgia (2015), Liberia (2017) and Venezuela (2017)

Reforms

- More reforms in the earlier years of authoritarian regimes than later in their tenure, the distribution of reforms throughout the autocratic rule is relatively uniform
- Percentage of observations experiencing central bank reforms is not especially high in the years before regime breakdown

Mubarak's Egypt: Extensive patronage and dependent central bank

- A party-based regime (Brownlee 2007; Blaydes 2010; Geddes et al. 2014)
- Two central bank reforms: 1975 and 2003 => weakened the autonomy of the central bank



* The bank's governor could hold other public offices; subordinate price stability to the government's fiscal policy; shorten the term of the governor's tenure; weak limits to the government's ability to use the bank's credit etc

"Fiscal and monetary policy authority, therefore, is highly centralized in the executive branch with the president and his cabal of experts essentially free to act without restriction" (Blaydes 2011: 79)

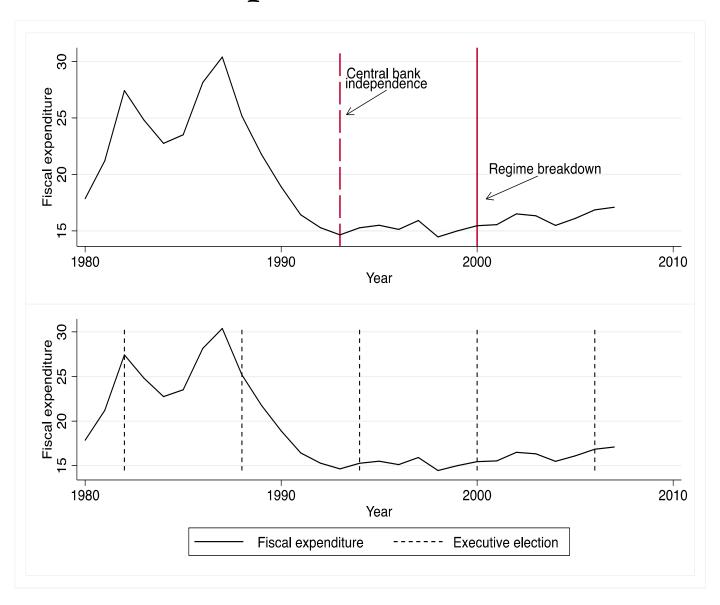
• A variety of methods to distribute patronage to party supporters under the regime: vote-buying, pension raises, bonuses payment for government employees etc

PRI's Mexico: Reduced spending and independent central bank

• Another typical party-based regime (Magaloni 2006; Geddes et al. 2014), which collapsed in 2000

- Central bank reform in 1993
- The purpose was to signal the country's competence on economic policy (to attract foreign capital after the failure of the NAFTA negotiation)
- After the reform, fiscal expenditures were constrained with little fluctuation and became insensitive to election cycles
- The reduced volume of fiscal expenditures likely contributed to the historical victory by the opposition in 2000

Fiscal expenditures in Mexico



Hypothesis

Hypothesis:

Dominant party autocracies are more likely to experience regime breakdown as legal CBI becomes higher

Additional observable implication: CBI is negatively associated with fiscal spending only under dominant party autocracies

Data and dependent variables

Sample: 94 autocratic countries (1970-2012)

Dependent variable: Autocratic regime breakdown (Geddes et al. 2014)

*1 if an autocratic country experiences regime breakdown

Regime breakdown =="fundamental changes in the formal and informal rules that identify the group from which leaders can be chosen and determine who can influence policy (the leadership group)"

Core independent variables

- Dominant party autocracies (Geddes et al. 2014; binary)
 - Vs. military, personalist, and monarchic regimes
- CBI (Garriga 2016, continuous 0.0-1.0): larger values indicate higher legal central bank independence *The coding scheme is based on Cukierman et al. 1992
- Interaction term between the two variables

Estimation methods

- 1. Ordinary probit with regional-/year- fixed effects and time splines
- 2. Ordinary probit with unit means (≒ country FE) + regional-/ year-fixed effects and time splines
- 3. IV probit and IV regression models with regional-/year- fixed effects and time splines
 - *Setting neighbors' mean of CBI and its interaction with party-based regimes (one-year lagged and 5 year lagged) as instruments for CBI and the interaction term

Controls: GDP per capita, logged population, oil-gas value per capita, trade openness, neighbors' mean of democracy (based on Geddes et al. 2015 and Escriba-Folch and Wright 2014), and neighbors' proportion of autocratic breakdown

Regime change, CBI and dominant party regimes

Model 2

Model 3

Model 4

Model 5

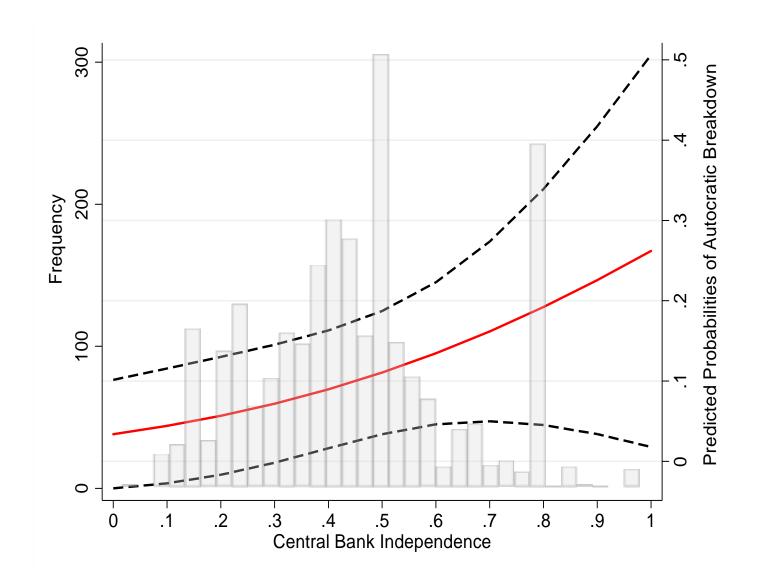
Model 6

Model 1

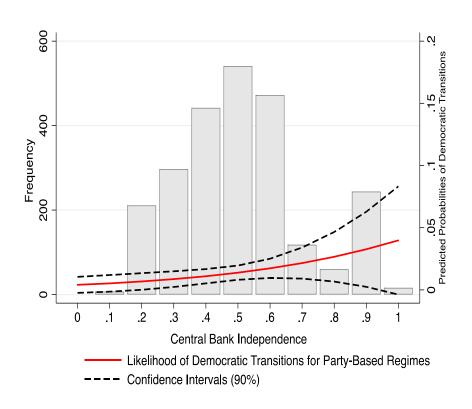
DV: Regime Breakdown

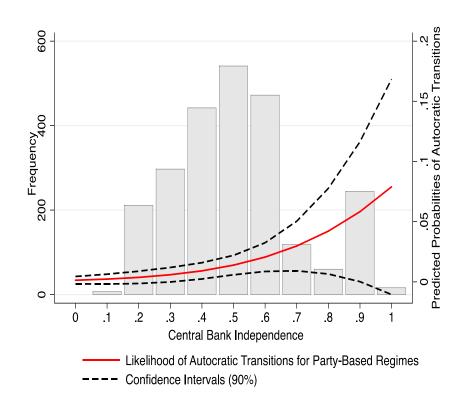
	1110 4141 =	1.10 0.10	1.10 441 1	1.10 0001 0	1.10401 0
Probit	Probit	Probit & Unit Means	Probit & CBI - 5 YR lagged	IV Probit	IV Reg
0.206	0.000693	-0.903	0.116	-0.945	-0.108
(0.238)	(0.274)	(0.611)	(0.312)	(1.044)	(0.113)
-0.429***	-0.932***		-1.071***	-1.547**	-0.122**
(0.133)	(0.285)		(0.287)	(0.609)	(0.057)
					0.166
					(0.113)
					-0.010
(,		,	,	(0.008)
					-0.008
					(0.005)
, , , , , , , , , , , , , , , , , , ,					-0.001
		` '		\ /	(0.003)
		,			-0.0001
	1	,			(0.000)
					0.00029
(0.018)	(0.018)	(0.025)	(0.023)	\ /	(0.0021)
					0.0641
0.120	0.022	1 272	0.120	,	(0.0881)
					0.374***
					(0.142)
					Yes
					Yes
Y es	Y es	Y es	Yes		Yes
				0.629	N/A
					42.452 11.04
					0.395
1 018	1 018	1 019	1 560	1 647	1,647
	- 5	,			91
-373.76	-372.35	-360.14	-297.29	2569.61	91
	0.206 (0.238) -0.429*** (0.133) -0.0342 (0.062) -0.0552 (0.058) (0.031) (0.025) -0.003 (0.002) 0.020 (0.018) -0.138 (1.136) Yes Yes Yes	0.206	Probit Means 0.206 0.000693 -0.903 (0.238) (0.274) (0.611) -0.429*** -0.932*** -0.697 (0.133) (0.285) (0.446) 1.036** 2.357*** (0.517) (0.697) -0.0342 -0.036 -0.185 (0.062) (0.065) (0.239) -0.0552 -0.0563 -0.028 (0.058) (0.059) (0.372) (0.031) -0.031 0.04660 (0.025) (0.025) (0.077) -0.003 -0.003 (0.001) (0.002) (0.002) (0.004) 0.020 0.0194 0.0123 (0.018) (0.018) (0.025) Yes Yes Yes Yes <t< td=""><td>Probit Probit Means CBI - 5 YR lagged 0.206 0.000693 -0.903 0.116 (0.238) (0.274) (0.611) (0.312) -0.429*** -0.932*** -0.697 -1.071*** (0.133) (0.285) (0.446) (0.287) 1.036** 2.357*** 1.156** (0.517) (0.697) (0.545) -0.0342 -0.036 -0.185 -0.0193 (0.062) (0.065) (0.239) (0.083) -0.0552 -0.0563 -0.028 -0.0157 (0.058) (0.059) (0.372) (0.062) (0.031) -0.031 0.04660 -0.032 (0.025) (0.025) (0.077) (0.029) -0.003 -0.003 (0.001) -0.002 (0.002) (0.002) (0.004) (0.002) (0.020) (0.0194 0.0123 0.013 (0.018) (0.018) (0.025) (0.023) -0.138 -0.023 -1.273 <t< td=""><td>Probit Probit Means CBI - 5 YR lagged IV Probit 0.206 0.000693 -0.903 0.116 -0.945 (0.238) (0.274) (0.611) (0.312) (1.044) -0.429*** -0.932*** -0.697 -1.071*** -1.547** (0.133) (0.285) (0.446) (0.287) (0.609) 1.036** 2.357*** 1.156** 2.086* (0.517) (0.697) (0.545) (1.231) -0.0342 -0.036 -0.185 -0.0193 -0.029 (0.062) (0.065) (0.239) (0.083) (0.079) -0.0552 -0.0563 -0.028 -0.0157 -0.053 (0.058) (0.059) (0.372) (0.062) (0.066) (0.031) -0.031 0.04660 -0.032 -0.030 (0.025) (0.025) (0.077) (0.029) (0.031) -0.003 -0.003 (0.001) -0.002 (0.002) (0.020) (0.004) (0.002) (</td></t<></td></t<>	Probit Probit Means CBI - 5 YR lagged 0.206 0.000693 -0.903 0.116 (0.238) (0.274) (0.611) (0.312) -0.429*** -0.932*** -0.697 -1.071*** (0.133) (0.285) (0.446) (0.287) 1.036** 2.357*** 1.156** (0.517) (0.697) (0.545) -0.0342 -0.036 -0.185 -0.0193 (0.062) (0.065) (0.239) (0.083) -0.0552 -0.0563 -0.028 -0.0157 (0.058) (0.059) (0.372) (0.062) (0.031) -0.031 0.04660 -0.032 (0.025) (0.025) (0.077) (0.029) -0.003 -0.003 (0.001) -0.002 (0.002) (0.002) (0.004) (0.002) (0.020) (0.0194 0.0123 0.013 (0.018) (0.018) (0.025) (0.023) -0.138 -0.023 -1.273 <t< td=""><td>Probit Probit Means CBI - 5 YR lagged IV Probit 0.206 0.000693 -0.903 0.116 -0.945 (0.238) (0.274) (0.611) (0.312) (1.044) -0.429*** -0.932*** -0.697 -1.071*** -1.547** (0.133) (0.285) (0.446) (0.287) (0.609) 1.036** 2.357*** 1.156** 2.086* (0.517) (0.697) (0.545) (1.231) -0.0342 -0.036 -0.185 -0.0193 -0.029 (0.062) (0.065) (0.239) (0.083) (0.079) -0.0552 -0.0563 -0.028 -0.0157 -0.053 (0.058) (0.059) (0.372) (0.062) (0.066) (0.031) -0.031 0.04660 -0.032 -0.030 (0.025) (0.025) (0.077) (0.029) (0.031) -0.003 -0.003 (0.001) -0.002 (0.002) (0.020) (0.004) (0.002) (</td></t<>	Probit Probit Means CBI - 5 YR lagged IV Probit 0.206 0.000693 -0.903 0.116 -0.945 (0.238) (0.274) (0.611) (0.312) (1.044) -0.429*** -0.932*** -0.697 -1.071*** -1.547** (0.133) (0.285) (0.446) (0.287) (0.609) 1.036** 2.357*** 1.156** 2.086* (0.517) (0.697) (0.545) (1.231) -0.0342 -0.036 -0.185 -0.0193 -0.029 (0.062) (0.065) (0.239) (0.083) (0.079) -0.0552 -0.0563 -0.028 -0.0157 -0.053 (0.058) (0.059) (0.372) (0.062) (0.066) (0.031) -0.031 0.04660 -0.032 -0.030 (0.025) (0.025) (0.077) (0.029) (0.031) -0.003 -0.003 (0.001) -0.002 (0.002) (0.020) (0.004) (0.002) (

Results: Autocratic breakdown



Results: Regime transitions





Democratic Transitions

Autocratic Transitions

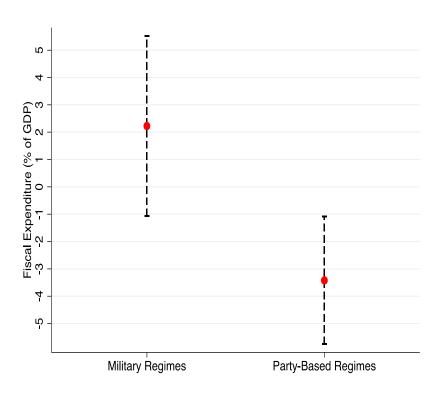
Exploring causal mechanism: spending

- Dependent variable -- fiscal expenditure (% of GDP): Global data (1948-2015)
- Key Independent variables CBI, party-based regime, and their interactions
- Controls election year, autocratic regime types, democracy, GDP per capita, growth, oil, capital openness, trade openness, population over 65, exchange rate regimes, (based on Bodea and Higashijima [2015])
- Country Fixed Effects with year dummies and clustered robust standard errors

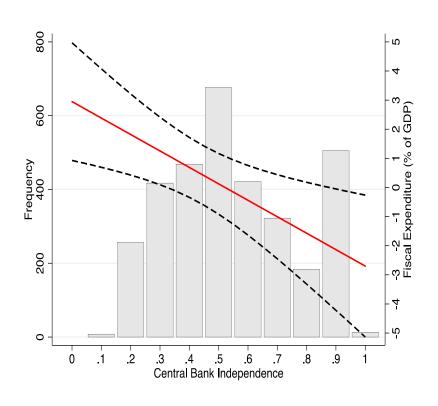
Fiscal outcomes, CBI and dominant party regimes

	Model 7	Model 8
DV	Expenditure	Expenditure
Sample	All Countries	All Countries
Method	Country FE	Country FE
Lagged Dependent Variable	0.748***	0.745***
	(0.028)	(0.029)
Central Bank Independence (CBI)	0.439	2.225
	(0.825)	(2.004)
Party-Based Autocracies	0.462	2.948**
	(0.563)	(1.228)
CBI*Party-Based		-5.648**
		(2.409)
Election Years	0.228*	0.219
	(0.135)	(0.135)
Democracies	0.821***	1.406**
	(0.305)	(0.693)
CBI*Democracies		-1.716
		(1.824)
Personalist	-0.0397	(0.319)
	(0.513)	(1.061)
CBI*Personalist		0.012
		(1.999)
Monarchy	2.804	3.310*
	(1.704)	(1.982)
CBI*Monarchy		-0.906
		(3.031)
Logged GDP per capita	-0.139	-0.121
	(0.419)	(0.429)
GDP Growth	-0.00113	-0.00427
	(0.020)	(0.020)
Oil-Gas Value per capita	0.000127*	0.000121*
	(0.000)	(0.000)
Capital Openness	-0.094	-0.103
	(0.101)	(0.100)
Trade Openness	0.00734	0.00816
	(0.007)	(0.007)
Population over 65	0.113	0.104
	(0.106)	(0.106)
Fixed Exchange Rate Regimes	0.116	0.0845
	(0.218)	(0.221)
Constant	5.198	4.455
	(3.142)	(3.150)
Year Fixed Effects	Yes	Yes
Country Fixed Effects	Yes	Yes
Observations	3,258	3,258
Number of Countries	126	126

Additional tests: spending



Marginal of CBI



Marginal of dominant party autocracies

Robustness Checks

- 1. Different measures of democracy: Boix et al. (2011), CGV (2009), and Polity IV
- 2. Possible error correlation within regions: Region-clustered standard errors
- 3. Time dependence: Cubic time polynominals (Carter and Signorino 2010) instead of cubic splines
- 4. Additional controls: economic growth, coup risk, antigovernment collective action, multiple opposition parties, and colonial origins
- 5. Jackknife analysis by excluding a country and region one by one to consider possible outliers

Conclusions

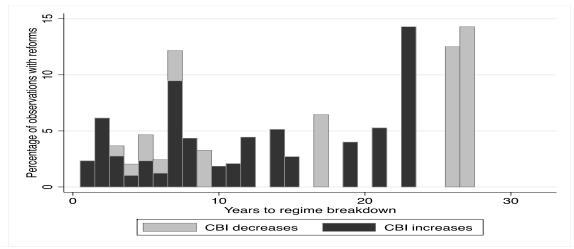
- Dictatorships become vulnerable to regime change when autocrats are constrained from manipulating fiscal policy
- CBI may work as a spending constraint via monetary policy
- This happens only in dominant party autocracies where the autocrats need to integrate diverse policy preferences

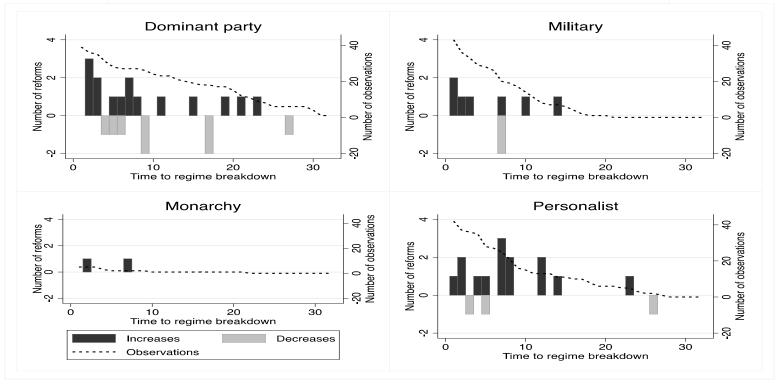
Thanks for your attention!

CBI reforms in autocracies

		CBI	reforms	CBI	level
Regime	N	Decreases	Increases	Average	Median
Dominant party	1,356	14	50	.412	.436
		(1%)	(3.7%)		
Military regime	399	4	12	.401	.368
		(1%)	(3%)		
Monarchy	322	0	11	.416	.483
			(3.4%)		
Personalist dictator	789	10	29	.521	.501
		(1.3%)	(3.7%)		
Democracy	2,183	28	174	.521	.480
		(1.2%)	(8%)		
Full sample	6,753	56	276	.476	.490
		(.8%)	(4.1%)		

Central Bank Reforms and Years to Regime Breakdowns





Regime Transitions

	Model D1	Model D2	Model D3	Model D4	Model D5	Model D6
	Democratic	Democratic	Democratic	Autocratic	Autocratic	Autocratic
DV	Transitions	Transitions	Transitions	Transitions	Transitions	Transitions
	Probit	Probit	Probit &	Probit	Probit	Probit & Uni
Estimation Methods			Unit Means			Means
Central Bank Independence (CBI)	-0.135	-0.424	-1.029	0.239	-0.0699	-0.191
	(0.350)	(0.384)	(0.771)	(0.297)	(0.331)	(0.853)
Party-Based Autocracies	-0.685***	-1.362***	-0.915	-0.365**	-1.306***	-1.544**
	(0.156)	(0.429)	(0.650)	(0.170)	(0.495)	(0.671)
CBI*Party-Based		1.471*	2.612**		1.801**	3.463***
		(0.788)	(1.279)		(0.900)	(0.910)
Logged GDP per capita	0.081	0.083	0.3480	-0.233**	-0.253**	-0.510*
	(0.073)	(0.077)	(0.340)	(0.100)	(0.101)	(0.265)
Logged Population	-0.0185	-0.018	1.421**	-0.122*	-0.134**	-0.252
	(0.065)	(0.066)	(0.617)	(0.066)	(0.067)	(0.608)
Oil-Gas Value per capita	-0.00514	-0.006	0.150	0.0137	0.018	0.017
	(0.029)	(0.029)	(0.094)	(0.031)	(0.031)	(0.078)
Trade Openness	-0.00297	-0.003	0.0031	-0.001	-1.30E-03	0.001
	(0.002)	(0.002)	(0.004)	(0.002)	(0.003)	(0.004)
Neighbor Democracy	0.0736***	0.0716***	0.0612**	0.0048	0.00533	0.002
	(0.021)	(0.022)	(0.0310)	(0.024)	(0.024)	(0.037)
Constant	-2.240*	-2.176*	-3.181**	1.25	1.727	1.519
	(1.191)	(1.235)	(1.425)	(1.522)	(1.527)	(1.908)
Year Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes
Region Dummies	Yes	Yes	Yes	Yes	Yes	Yes
Time Dependence and Cubic Splines	Yes	Yes	Yes	Yes	Yes	Yes
Observations	1,918	1,918	1,918	1,918	1,918	1,918
Number of Countries	94	94	94	94	94	94

Alternative Measures of Democracy and Dictatorship

	Model E1-1	Model E1-2	Model E1-3	Model E1-4	Model E1-5	Model E1-6
	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic
DV	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown
Estimation Methods	Probit	Probit & Unit Means	Probit	Probit & Unit Means	Probit	Probit & Unit Means
Political Regime Variable	Boix et al.	Boix et al.	Cheibub et al.	Cheibub et al.	Polity IV<6	Polity IV<6
Central Bank Independence (CBI)	-0.0993	-1.441***	0.0788	-1.251**	-0.1	-0.946
Party-Based Autocracies	(0.295) -1.040***	(0.494) -0.959**	(0.299) -1.205***	(0.544) -1.005**	(0.298) -1.092***	(0.595) -0.958**
	(0.290)	(0.448)	(0.326)	(0.484)	(0.323)	(0.478)
CBI*Party-Based	1.043*	2.091***	1.318**	2.342***	1.251**	2.669***
	(0.534)	(0.763)	(0.564)	(0.780)	(0.557)	(0.733)
Logged GDP per capita	0.023	-0.1100	0.0275	0.001	-0.0161	-0.064
	(0.068)	(0.248)	(0.059)	(0.242)	(0.066)	(0.218)
Logged Population	-0.074	-0.4010	-0.033	-0.241	-0.0412	-0.012
	(0.060)	(0.368)	(0.062)	(0.380)	(0.060)	(0.329)
Oil-Gas Value per capita	-0.024	0.104	-0.0238	0.033	-0.0215	0.064
	(0.026)	(0.074)	(0.025)	(0.070)	(0.024)	(0.068)
Trade Openness	-0.00383**	0.0024	-3.13E-03	0.002	-1.21E-03	0.002
	(0.002)	(0.003)	(0.002)	(0.004)	(0.002)	(0.003)
Neighbor Democracy	0.026	0.0439*	0.0312*	0.032	0.00857	0.005
	(0.017)	(0.0249)	(0.017)	(0.026)	(0.017)	(0.023)
Year Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes
Region Dummies	Yes	Yes	Yes	Yes	Yes	Yes
Time Dependence and Cubic Splines	Yes	Yes	Yes	Yes	Yes	Yes
Observations	1,672	1,672	1,666	1,666	1,940	1,940
Number of Countries	95	95	89	89	100	100
Log Pseudolikelihood	-343.88	-332.88	-326.92	-317.12	-388.22	-376.71

Different estimators

	Model E2-1	Model E2-2	Model E2-3	Model E2-4	Model E2-5	Model E2-6
	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic
DV	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown
Estimation Methods	Probit	Probit & Unit Means	Probit	Probit & Unit Means	Probit	Probit & Unit Means
	Region	Region	RE Probit	RE Probit	Time	Time
	Clustered SE	Clustered SE	KE PIODIL	KE PIODIL	Polynominals	Polynominals
Central Bank Independence (CBI)	0.000693	-0.903*	0.000694	-0.904	0.0104	-0.883
	(0.230)	(0.505)	(0.301)	(0.638)	(0.276)	(0.614)
Party-Based Autocracies	-0.932***	-0.697*	-0.932***	-0.697	-0.937***	-0.703
	(0.091)	(0.358)	(0.334)	(0.465)	(0.286)	(0.449)
CBI*Party-Based	1.036***	2.357***	1.036*	2.357***	1.024**	2.352***
	(0.263)	(0.585)	(0.617)	(0.867)	(0.514)	(0.695)
Logged GDP per capita	-0.036	-0.1850	-0.0364	-0.185	-0.0356	-0.181
	(0.105)	(0.354)	(0.074)	(0.244)	(0.064)	(0.236)
Logged Population	-0.056	-0.0280	-0.0563	-0.028	-0.0571	-0.033
	(0.048)	(0.421)	(0.060)	(0.351)	(0.060)	(0.379)
Oil-Gas Value per capita	-0.031	0.047	-0.0312	0.047	-0.0299	0.048
	(0.034)	(0.098)	(0.026)	(0.062)	(0.025)	(0.076)
Trade Openness	-0.003	-0.0009	-2.53E-03	-0.001	-2.53E-03	-0.001
	(0.002)	(0.003)	(0.002)	(0.003)	(0.002)	(0.004)
Neighbor Democracy	0.0194	0.0123	0.0194	0.012	0.0204	0.012
	(0.012)	(0.0106)	(0.018)	(0.029)	(0.018)	(0.025)
Year Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes
Region Dummies	Yes	Yes	Yes	Yes	Yes	Yes
	Voo	V	Vaa	Vaa	Time	Time
Time Dependence and Cubic Splines	Yes	Yes	Yes	Yes	Polynominals	Polynominals
Observations	1,918	1,918	1,918	1,918	1,918	1,918
Number of Countries	94	94	94	94	94	94
Log Likelihood			-372.35	-360.14		
Log Pseudolikelihood	-372.35	-360.14			-371.76	-359.49

Additional controls

	Model E3-1	Model E3-2	Model E3-3	Model E3-4	Model E3-5	Model E3-6	Model E3-7	Model E3-8	Model E3-9	Model E3-10
	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic	Autocratic
DV	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown	Breakdown
Estimation Methods	Probit	Probit & Unit Means	Probit	Probit & Unit Means	Probit	Probit & Unit Means	Probit	Probit & Unit Means	Probit	Probit & Unit Means
Central Bank Independence (CBI)	0.00197	-0.92	0.033	-0.637	0.039	-0.984	-0.0124	-1.029	0.0461	-0.659
	(0.295)	(0.591)	(0.323)	(0.550)	(0.296)	(0.659)	(0.304)	(0.676)	(0.302)	(0.557)
Party-Based Autocracies	-0.906***	-0.561	-0.849***	-0.425	-0.900***	-0.697	-0.889***	-0.702	-0.862***	-0.575
	(0.293)	(0.467)	(0.294)	(0.456)	(0.295)	(0.464)	(0.302)	(0.461)	(0.297)	(0.449)
CBI*Party-Based	0.974*	1.905**	0.980*	2.120***	0.928*	2.175***	0.901*	2.118***	0.902*	2.096***
	(0.509)	(0.742)	(0.533)	(0.806)	(0.518)	(0.751)	(0.524)	(0.735)	(0.530)	(0.716)
Logged GDP per capita	0.027	-0.2070	-0.0775	-0.182	-0.00422	-0.0896	-0.0174	-0.149	-0.0173	-0.0957
	(0.067)	(0.256)	(0.056)	(0.251)	(0.067)	(0.253)	(0.069)	(0.253)	(0.062)	(0.242)
Logged Population	-0.060	-0.1490	-0.121**	-0.0728	-0.0552	0.0182	-0.0575	-0.0171	-0.0432	0.0637
	(0.061)	(0.398)	(0.058)	(0.379)	(0.061)	(0.382)	(0.062)	(0.389)	(0.062)	(0.386)
Oil-Gas Value per capita	-0.040	0.068	-0.0225	0.0762	-0.0365	0.0639	-0.033	0.0647	-0.0461	0.0485
	(0.028)	(0.086)	(0.026)	(0.084)	(0.027)	(0.080)	(0.028)	(0.081)	(0.029)	(0.082)
Trade Openness	-0.00334*	-0.0013	-0.0024	-0.00196	-0.00305*	-0.00343	-0.00288	-0.00323	-0.00192	-0.000885
	(0.002)	(0.004)	(0.002)	(0.004)	(0.002)	(0.004)	(0.002)	(0.004)	(0.002)	(0.004)
Neighbor Democracy	0.0313	0.0229	0.0156	0.0134	0.0181	0.0155	0.018	0.014	0.0192	0.0108
	(0.020)	(0.029)	(0.018)	(0.025)	(0.019)	(0.027)	(0.020)	(0.028)	(0.018)	(0.026)
GDP Growth	-0.0300***	-0.0288***	-0.0212***	-0.0196***	-0.0313***	-0.0315***	-0.0310***	-0.0307***	-0.0288***	-0.0276***
	(0.008)	(0.008)	(0.007)	(0.007)	(800.0)	(0.008)	(0.008)	(0.008)	(0.008)	(0.008)
Electoral Authoritarianism	-0.245**	-0.168								
	(0.103)	(0.106)								
Logged Protests			0.310***	0.321***						
			(0.066)	(0.067)						
History of Coup Attempt (5 Years)					0.0267	0.0449				
					(0.143)	(0.135)				
History of Coup Attempt (10 Years)							-0.0307	-0.0166		
							(0.134)	(0.136)		
British Colony									-0.165	-0.193
									(0.148)	(0.172)
French Colony									-0.136	-0.168
									(0.140)	(0.167)
Spanish Colony									0.322	0.275
									(0.222)	(0.217)
Year Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Region Dummies	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time Dependence and Cubic Splines	103									
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Observations			Yes 1,890	Yes 1,890	Yes 1,884	Yes 1,884	Yes 1,808	Yes 1,808	Yes 1,916	Yes 1,916
Observations Number of Countries	Yes	Yes								

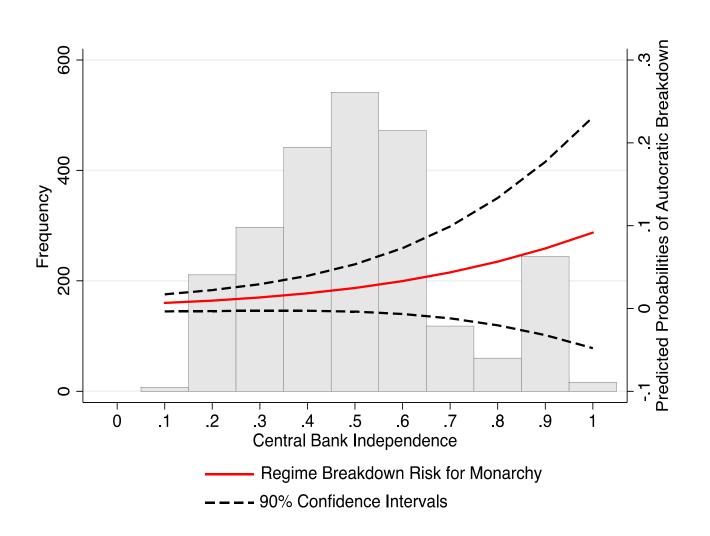
Additional analysis for the spending mechanism

	Model F-1	Model F-2	Model F-3
DV	Expenditure	Expenditure	Expenditure
Sample	Autocracy	All Countries	All Countries
Reference Category	Military	Personalist	Monarchy
Lagged Dependent Variable	0.705***	0.746***	0.747***
	(0.028)	(0.028)	(0.029)
Cental Bank Independence (CBI)	2.749	2.609	2.109
	(2.071)	(1.856)	(1.992)
Party-Based Autocracies	4.975***	3.146**	0.765
	(1.820)	(1.325)	(1.422)
CBI*Party-Based	-9.455***	-5.925***	-5.425**
	(2.854)	-2.263	-2.426
Election Years	0.397	0.214	0.209
	(0.240)	(0.134)	(0.134)
Democracies		1.628*	-0.594
		(0.965)	(1.074)
CBI*Democracies		-2.119	-1.642
		(1.925)	(2.152)
Military Regime		0.581	-1.561
		(1.014)	(1.186)
CBI*Military		-1.985	-1.743
		(2.023)	(2.432)
Personalist Regime	0.0419		-2.260*
	(1.722)		(1.258)
CBI*Personalist	-0.546		0.138
	(2.507)		(2.137)
Monarchy	6.730***	3.512*	
	(2.220)	(2.064)	
CBI*Monarchy	-2.359	-1.293	
	(2.939)	(2.888)	
Logged GDP per capita	-0.251	-0.0996	-0.0768
	(0.555)	(0.419)	(0.431)
GDP Growth	0.032	-0.00356	-0.00262
	(0.027)	(0.020)	(0.020)
Oil-Gas Value per capita	0.000258***	0.000120*	0.000127*
	(0.000)	(0.000)	(0.000)
Capital Openness	-0.275*	-0.112	-0.104
	(0.148)	(0.100)	(0.100)
Trade Openness	0.00797	0.00828	0.00925
	(0.009)	(0.007)	(0.007)
Population over 65	0.137	0.108	0.121
	(0.233)	(0.106)	(0.106)
Fixed Exchange Rate Regimes	-0.522	0.0951	0.0897
-	(0.355)	(0.218)	(0.219)
Year Fixed Effects	Yes	Yes	Yes
Country Fixed Effects	Yes	Yes	Yes
Observations	1,458	3,258	3,258
Number of Countries	115	126	126

Different reference categories

	Model G-1	Model G-2	Model G-3
	Regime	Regime	Regime
DV	Breakdown	Breakdown	Breakdown
Method	Probit	Probit	Probit
Central Bank Independence (CBI)	0.121	0.421	0.353
	(0.239)	(0.293)	(0.296)
Monarchic Autocracies	-0.956***		
	(0.332)		
CBI*Monarchy	1.273*		
	(0.652)		
Military		0.736**	
		(0.295)	
CBI*Military		-0.819	
		(0.640)	
Personalist			0.229
			(0.286)
CBI*Personalist			-0.396
			(0.515)
Logged GDP per capita	-0.078	-0.0868	-0.0556
	(0.063)	(0.068)	(0.065)
Logged Population	-0.0861	-0.081	-0.0671
	(0.063)	(0.055)	(0.060)
Oil-Gas Value per capita	-0.038	-0.0348	-0.0384
	(0.025)	(0.025)	(0.026)
Trade Openness	-0.00371**	-0.00345*	-0.00328*
	(0.002)	(0.002)	(0.002)
Neighbor Democracy	0.013	0.0212	0.0126
	-0.0191	(0.019)	(0.019)
Year Fixed Effects	Yes	Yes	Yes
Region Dummies	Yes	Yes	Yes
ime Dependence and Cubic Spline:	Yes	Yes	Yes
Observations	1,918	1,918	1,918
Number of Countries	94	94	94
Log Pseudolikelihood	-377.61	-375.38	-379.23

Marginal Effect of Monarchy on Autocratic Breakdown Conditional on CBI



First model in IV probit

Method	IV Probit		
Dependent Variable	CBI	CBI*Party	
Neighbors' CBI (t-1)	0.752***	-0.147	
	(0.262)	(0.124)	
Neighbors' CBI*Party (t-1)	0.377	1.275***	
	(0.275)	(0.254)	
Neighbors' CBI (t-6)	0.0813	0.294**	
	(0.216)	(0.126)	
Neighbors' CBI*Party (t-6)	0.141	-0.041	
	(0.097)	(0.050)	
Party	-0.206*	-0.0925	
	(0.124)	(0.108)	
Logged GDP per capita	-0.016	0.001	
	(0.016)	(0.011)	
Logged Population	-0.0293**	-0.0104	
	(0.013)	(0.008)	
Oil-Gas Value per capita	0.00696	0.00359	
	(0.005)	(0.003)	
Trade Openness	-0.000269	-0.000272	
	(0.000)	(0.000)	
Neighbor Democracy	-0.00654	-0.000549	
	(0.006)	(0.004)	
Neighbors' Autocratic Breakdown (mean)	0.0237	0.0195	
	(0.058)	(0.028)	
Constant	0.615**	0.0892	
	(0.299)	(0.190)	
Year Fixed Effects	Yes	Yes	
Region Dummies	Yes	Yes	
Time Dependence and Cubic Splines	Yes	Yes	
Observations	1647	1647	
Number of Countries	91	91	

The exclusionary restriction condition of the instruments

Method	Probit
СВІ	-1.14
	(0.877)
CBI*Party	2.376**
	(1.030)
Party	-1.732***
	(0.640)
Neighbors' CBI (t-1)	-2.522
	(1.576)
Neighbors' CBI*Party (t-1)	1.624
	(1.809)
Neighbors' CBI (t-6)	2.077
	(1.390)
Neighbors' CBI*Party (t-6)	-0.134
	(0.537)
Logged GDP per capita	-0.18
	(0.288)
Logged Population	-0.772
	(0.521)
Oil-Gas Value per capita	0.0902
	(0.079)
Trade Openness	-0.00103
	(0.004)
Neighbor Democracy	0.0213
	(0.028)
Constant	-1.585
	(1.273)
Year Fixed Effects	Yes
Region Dummies	Yes
Time Dependence and Cubic Splines	Yes
Log Pseudolikelihood	-302.31
Observations	1,647
Number of Countries	91
	-1

Measure of central bank independence

Components of the Cukierman, Webb, and Neyapti index

Chief Executive Officer (weight = .20)

- (a) Term of office (6 categories)
- (b) Who appoints CEO? (6 categories)
- (c) Dismissal (7 categories)
- (d) May CEO hold other offices in government (3 categories)

Policy Formation (weight = .15)

- (a) Who formulates monetary policy? (4 categories)
- (b) Resolution of conflict (6 categories)
- (c) Role in government's budgetary process (2 categories)

Objectives (weight = .15; 6 categories)

Limitations on lending to the government

Part 1 (weight = .40)

- (a) Advances (weight = .15; 4 categories)
- (b) Securitized lending (weight = .10; 4 categories)
- (c) Terms of lending (weight = .10; 4 categories
- (d) Potential borrowers from bank (weight = .05; 4 categories)

Part 2 (weight = .10)

- (e) Limits on central bank lending determined by? (weight = .025; 4 categories)
- (f) Maturity of loans (weight = .025; 4 categories)
- (g) Interest rates on loans must be? (weight = .025; 5 categories)
- (h) Is central bank prohibited from buying or selling government securities in primary market? (weight = .025; 2 categories)