

Multiple Policymakers: Veto Actors Bargaining in Common Pools

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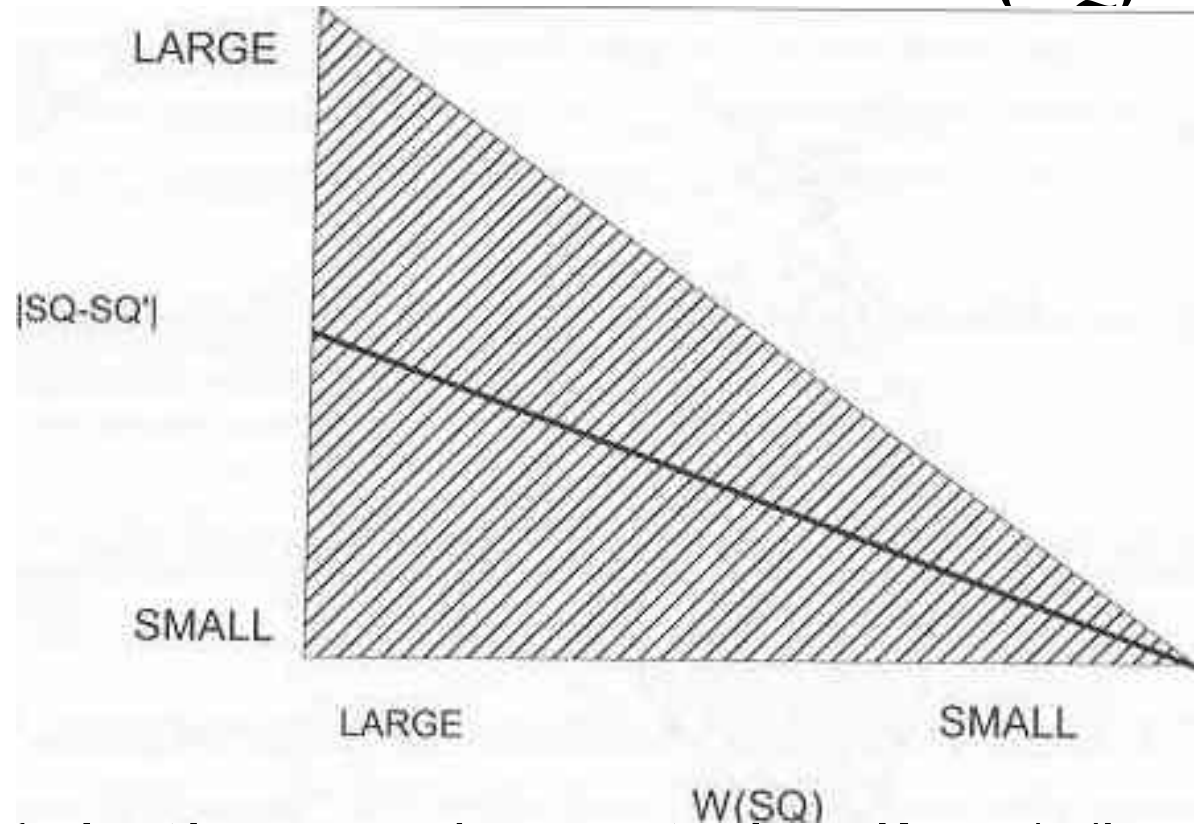
Overview

- Multiple implications for policy outcomes dispersal of policymaking-authority across diverse actors:
 - Veto-Actor Theory (Tsebelis '02) emphasizes:
 - Privileges *S.Q.*, & so retards policy adjustment, reduces change.
 - Collective-Action/Common-Pool Theories (WSJ '81):
 - Externalities & so overexploit/underinvest public goods.
 - Bargaining & Delegation Theories rather stress:
 - Bargaining Strengths/Positions, yielding Weighted Compromise.
- This project attempts a synthesis:
 - Disting. theoretically/conceptually many effects of # (fragment.) & diversity (polar., partisan) policymakers.
 - Empirical model of many effects distinctly & effectively.
 - Preliminary application to evolution fiscal policy (pub debt) in developed democracies, 1950s-90s.

Veto Actors: Deadlock, Delayed Stabilization, & Policy-Adjustment Retardation

- Tsebelis ('95b, '99, '00, '02): veto-actor approach to comparative politics & policy-making:
 - Substantive & empirical exploration, esp. : Bicameralism (w/ Money) & EU pol-mkng (w/ Garrett, Kreppel, et al.),
 - Also, referenda (w/ Hug) & fiscal policy (w/ Chang)
- Essential Argument:
 - \uparrow # &/or ideological/interest polarization of pol-mkng actors whose approval required to Δ SQ, i.e., *veto actors*, \Rightarrow , loosely, \downarrow probability &/or magnitude policy Δ .
 - I.e., strictly, as size $W(SQ) \downarrow$, which generally does as # &/or polarization VA \uparrow , range *possible* policy $\Delta(SQ) \downarrow$.
 - \Rightarrow following empirical prediction (Tsebelis 2002, Fig. 1.7):

Possible Distances of New Policy from Status Quo as a Function of the Size of $W(SQ)$



- *Suggests* both mean/expected policy- Δ & variance policy- Δ $\uparrow\downarrow$ as size of $W(SQ)$ $\uparrow\downarrow$ (aside: why only *suggests*)
- No prediction of policy-level or of *direction* policy- Δ ; Only of $E(|\Delta p|)$, $V(\Delta p)$.

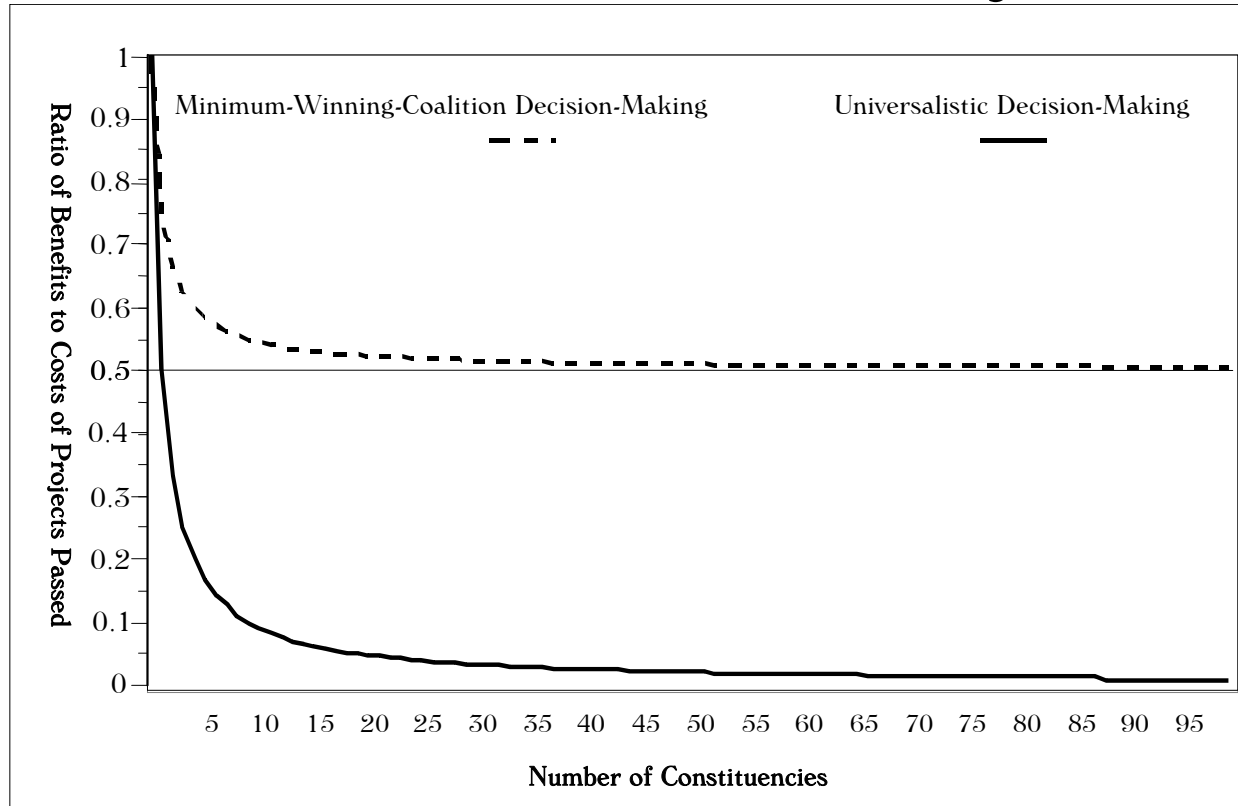
Veto-Actor Implications

- \uparrow # (=Fragmentation) & Polarization of VA Privileges SQ \Rightarrow
 - Retards policy-adjustment rates/delays stabilization,
 - \downarrow range of possible policy- Δ , & so, possibly,
 - \downarrow magnitude/variance policy- Δ (1st- & 2nd-order $E(\Delta)$).
- Re: Fiscal Policy, namely deficits & debts:
 - R&S (89ab) argued; A&D (91), D&G (93), Spolaore (04) formalize+extend
 - Empirical support initially mixed: R&S, GMT, E&O, Heller, A&P find support; DeH&S, B&R, DeH&S&B find otherwise, but...
- Tighter specification of theory into empirical analysis:
 - (F '00, '02) **How model:** policy-adjustment-rate effect = conditional coefficient on LDV in dynamic model, not level effect, \Rightarrow finds support.
 - (F '00, '02) **How measure:** frag & polar in VA theory = raw #, not eff. # (size-wtd) actors; max range pref's, not $V(pref's)$ or $s.d.(pref's)$, (size-wtd)
- $\Rightarrow y_t = \dots + \rho(\#VA, Range\{pref(VA)\}) y_{t-1} \dots$ & / or $V(y_t) = f(\#, Range)$
 - Support (F '00, '02) and by others if effect modeled in dynamics or as $V(pol-\Delta)$: A&P, A&L(&Ferree) ('94, '98, '00, '01, '03), Treisman ('00), Hallerberg ('02), Basinger & Hallerberg ('04), Tsebelis & Chang ('04)...

Common-Pool Theory (1)

- Weingast, Shepsle, Johnsen (1981): districting & distributive/pork-barrel spend (*law of 1/n*)
 - Benefits concentrate district i : $B_i=f(C)$, $f'>0$ & $f''<0$
 - Costs disperse across n districts: $C_i=C/n$
 - \Rightarrow optimal project-size from i 's view \uparrow in # districts: $f'(C^*)=1/n$ (...log-linearly?)
- Alternative Decision Rules/Processes:
 - Pure **majority rule**, without log-rolling, universalism, or side-payments \Rightarrow all pork-barrel projects lose $(n-1)$ to 1 ...
 - **Universalism/Log-Roll** \Rightarrow district-by-district optimal...
 - Rikerian **MWC** \Rightarrow side-pays sufficient to induce bare-maj: $(n-1)/2$ others get $C/n+\varepsilon$; also \Rightarrow *law 1/n* but more marginally.
 - **Uncertainty** re: MWC \Rightarrow Supermaj, i.e. b/w Uni & MWC.
 - **Legislative procedures**: All coals MWC-Uni possible; keys: amendment openness, presidents or 2nd chambers, etc., anything that add leg step where veto or amend may occur
 - **Rational Ignorance**: makes sidepays/logrolls easier...

Common-Pool Theory (2)



- *Law of 1/n* is general, & stronger as leg. behave more *Universalistic* & less *Min-Win*, which tendency \uparrow as rational ignorance, winning-coalition uncertainty, or legislative-rule closure to amend or veto \uparrow
- E.g., PubRev = common pool for n reps, overused to distribute bens; this collect-act prob worsens “proportionally” by *law 1/n*, i.e. at rate b/w those at which $(n+1)/2n$ (MWC) & $1/n$ (uni) \downarrow in n

Manifestations of Common Pools

- Velasco ('98, '99, '00): inter-temporal totality pub rev is C-P to today's policymakers \Rightarrow deficits & debts also *law of 1/n*
- Peterson & co's, Treisman: federalism \Rightarrow multiple tax authorities \Rightarrow several common-pool problems:
 - Inter-jurisdiction competition (w/ high factor mobility) \Rightarrow C-P of investment resources \Rightarrow over-fishing: taxes too low.
 - National govt as lender last resort \Rightarrow subnational jurisdictions see fed guarantee & funds as common pool \Rightarrow excessive borrowing by subnat'l units. (e.g., EU, EMU & Euro \Rightarrow common pools...)
- Again, should be quite general:
 - Anything that gains set of pol-makers credit \Rightarrow underinvested as $\uparrow n$
 - Anything that gains set of pol-makers blame \Rightarrow overexploited as $\uparrow n$
- E.g., (thry 2nd-best), ELECTIONEERING:
 - Magnitude incentive electioneer fades w/ n (see, e.g., Goodhart)
 - Control over electioneering diminishes w/ n .
- Notice: CP not arise in Tsebelis' VA Theory b/c # & pref's of VA's exog & predetermined, whereas in CP theory: $\text{prefs}=f(\#)$.

Modeling Common-Pool Effects

- CP Effects distinguishable from VA Effects:
 - C-P Effects on *levels*, not (as in VA) in dynamics.
 - Proportional to $1/n$ for *equal-sized* actors. Standard Olsonian encompassingness logic \Rightarrow proper n here is *size-weighted* (effective & s.d./var.)
 - Fractionalization (#) & esp. polarization (het.) relate to VA effects; CP, conversely, relate primarily to #, although het. can exacerbate some CA probs.
- Suggests Proper Model of Policy-Response to some public demand for, $\mathbf{x}_1' \beta_1$, or against, $\mathbf{x}_2' \beta_2$:
 - $\dots + (\mathbf{x}_1' \beta_1)(1 - f(\ln(\text{Eff}\#)) + (\mathbf{x}_2' \beta_2)(1 + f(\ln(\text{Eff}\#)) + \dots$
 - Same $f(\ln(\text{Eff}\#))$, b/c overexploit/underinvest same ^o

Bargaining, Delegation, & Compromise (1)

- **Explicit extensive-form delegation & bargaining games:** huge theoretical & empirical literature
 - **Theoretical Literature:** *Delegation* starts w/ McNollGast '87; *Legislative-bargaining* starts w/ Baron-Ferejohn '89; *Leg-Exec Barg* starts w/ Romer-Rosenthal '78
 - **Some Empirical Examples:** McCarty&Poole ('95), McCarty ('00); Alt & Lowry (& Ferree) ('94, '98, '00, '01, '03), Snyder & Ansolabahere & Ting ('04)
- Franzese ('99, '02, '03): less context-specific empirical strategy...
 - Because broad comparativist seek thry that *travels*, not that requires different model each context.
 - Offering is roughly equivalent Nash Bargaining.

Bargaining, Delegation, & Compromise (2)

- Franzese ('99,'02,'03): less context-specific strategy than extensive-form modeling \approx Nash Bargaining:
 - Most ext forms \Rightarrow eqbm bounded by actors' ideal pts:
 - Convex set/hull, upper-contour set (=core of coop. game thry),
 - So like Tsebelis, but further, though short of explicit ext-form
 - Policy outside that range possible,
 - e.g., if uncertainty resolved unfavorably,
 - but that \Rightarrow highly unlikely that $E(\text{pol})$ outside this range
 - Thus, $E(\text{pol})$ =some convex-combo (wtd-avg) pol-mkrs' ideals \Rightarrow convex-combo emp. models \approx compromise
 - If Nash Bargain, e.g., (n.b. NB=coop. game-thry but equiv. sev. reasonable ext-form non-coop barg. games: Rubinstein '82), \Rightarrow (geometric) *wtd-influence pol-mkng*; i.e., simple wtd-avg.

Empirical Manifestations & Model of Compromise Policymaking

- Re: def's & debt, Cusack ('99, '01; cf., Clark '03)
 - Arg: left more Keynes-active counter-cyc., right less, even pro-cyc.
 - Add Nash-Barg Model \Rightarrow wtd-avg pol-mkr partisanship conditions
 - Keynesian cntr-cyc fiscal-policy response to macroecon
- Franzese ('99, '03): Monetary-Policy Delegation
 - *Two Hands on the Wheel* (CPE): $C \times \pi_c(\mathbf{x}_c) + (1-C) \times \pi_g(\mathbf{x}_g)$
 - *Multiple Hands on the Wheel* (CIPE):
 - $\{ [C \times \pi_c(\mathbf{x}_c) + (1-C) \times \pi_g(\mathbf{x}_g)] \times (1-P) + P \times \pi_p \} \times (1-E) + E \times \pi_w$
- Empirical Implementation:
 - Ideally:
 - Describe barg power party i as $f(\text{charact's } i \ \& \ \text{barg environ, } j, \Rightarrow f(v_{ij})$
 - Desc. pol response to conditions \mathbf{x}_k if i sole pol-mkng control: $q_i(\mathbf{x}_k)$
 - Then embed Nash-Barg sol'n, $\sum_i f(v_{ij}) q_i(\mathbf{x}_k)$, in empirical model to est.
 - Currently:
 - Assume wtd-avg compromise outcome pre-estimation.
 - I.e., simply assume by measure & specification that Policy responds to $WtdPartisanshipCurrGovt \times MacroeconomicConditions$.

Empirical Model of the Theoretical Synthesis (1)

- Different aspects of policy-maker fragmentation, polarization, & partisanship:
 - V-A Effects: raw # (frag) and ideological ranges (polar)
 - C-P Effects: eff # (frag) &, maybe, ideol. std-dev/var (polar)
 - D-B Effects: power-wtd mean ideologies (partisanship)
- Different ways these distinct effects manifest in policy:
 - V-A (primarily) to slow pol-adjustment (delay stabilization);
 - C-P induces over-draw from common resources (incl. from future as in debt); under-invest in common properties (less electioneering), log-proportionately
 - D-B induces convex-combinatorial (compromise) policies, incl. greater left-activist/right-conservative Keynesian-countercyclical/conservative pro-cyclical, in proportion to degree left/right controls policymaking

Empirical Model of the Theoretical Synthesis (2)

- Different aspects pol-mkr frag, polar, & partisan...
- Different ways the effects manifest in policy...
- Implies specification where:
 - Abs # VA & their ideol range modify pol-adjustment rates
 - (log) Eff # pol-mkrs & s.d. ideol (i.e., wtd measures) gauge C-P problem in *electioneering*, & maybe level effect on debt
 - Some barg process among partisan pol-mkrs (e.g., Nash \Rightarrow wtd-influence) determines combo reflected in net policy responsiveness to macro (i.e., degree of Keynesian activism)

$$\begin{aligned}
 \bullet \Rightarrow D_{it} = & \alpha_i + (1 + \rho_n NoP_{it} + \rho_{ar} ARwiG_{it}) \times (\rho_1 D_{i,t-1} + \rho_2 D_{i,t-2} + \rho_3 D_{i,t-3}) \\
 & + (\beta_{\Delta Y} \Delta Y_{i,t} + \beta_{\Delta U} \Delta U_{i,t} + \beta_{\Delta P} \Delta P_{i,t}) \times (1 + \beta_{cg} CoG_{it}) \\
 & + (\gamma_{e1} E_{it} + \gamma_{e2} E_{i,t-1}) \times (1 + \gamma_{en} ENoP_{it} + \gamma_{sd} SDwiG_{it}) + \mathbf{x}'_{it} \boldsymbol{\eta} + \mathbf{z}'_{it} \boldsymbol{\omega} + \varepsilon_{it}
 \end{aligned}$$

Empirical Model Specification & Data

$$D_{it} = \alpha_i + (1 + \rho_n \text{NoP}_{it} + \rho_{ar} \text{ARwiG}_{it}) \times (\rho_1 D_{i,t-1} + \rho_2 D_{i,t-2} + \rho_3 D_{i,t-3}) + \mathbf{x}'_{it} \boldsymbol{\eta} + \mathbf{z}'_{it} \boldsymbol{\omega} + \varepsilon_{it} \\ + (\beta_{\Delta Y} \Delta Y_{i,t} + \beta_{\Delta U} \Delta U_{i,t} + \beta_{\Delta P} \Delta P_{i,t}) \times (1 + \beta_{cg} \text{CoG}_{it}) + (\gamma_{e1} E_{it} + \gamma_{e2} E_{i,t-1}) \times (1 + \gamma_{en} \text{ENoP}_{it} + \gamma_{sd} \text{SDwiG}_{it})$$

- D_{it} = Debt (%GDP);
- NoP & ARwiG = raw Num of Prtys in Govt & Abs Range w/i Govt:
 - VA conception, so modify dynamics. Expect ρ_n & $\rho_{ar} > 0$.
 - By thry & for efficiency: modify all lag dynamics same.
- CoG (govt center, left to right, 0-10):
 - Modifies response to macroecon (equally, by thry & for eff'cy) : $\beta_{cg} < 0$.
 - Macroecon: ΔY = real GDP growth; ΔU = Δ unemp rate; ΔP = infl rate.
- $\mathbf{x}'\boldsymbol{\eta}$ = controls: set pol-econ conditions response to which not partisan-differentiated or gov comm-pool: (e.g., $E(\text{real-interest})-E(\text{real-growth})$, ToT)
- ENoP & SDwiG = Effective Num of Prtys in govt & Std Dev w/i Govt:
 - Frag & Polar by *wtd-influence* concept. CP level-effects modify (at same rate) electioneering, E_t , pre-elect-year, & E_{t-1} , post-elect-yr.: γ_{en} & $\gamma_{sd} < 0$.
- $\mathbf{z}'\boldsymbol{\omega}$ = set of constituent terms in the interactions:
 - ENoP , SDwiG may have positive coeff's by CP effect level debt, but issue is *temporal fract* more than current govt *fract*. Thry o/w suggests omit.

		Coeff.	Std. Err.	t-Stat.	Pr($T > t$)
<i>Lagged</i>	D_{t-1}	1.212	0.060	20.112	0.000
<i>Dependent</i>	D_{t-2}	-0.153	0.085	-1.792	0.074
<i>Variables</i>	D_{t-3}	-0.121	0.045	-2.677	0.008
ρ_n (<i>veto-actor effect: fractionalization</i>)		0.007	0.006	1.089	0.277
ρ_{ar} (<i>veto-actor effect: polarization</i>)		-0.000	0.006	-0.013	0.990
<i>Macroeconomic</i> <i>Conditions</i>	ΔY	-0.336	0.111	-3.033	0.003
	ΔU	0.992	0.308	3.219	0.001
	ΔP	-0.188	0.063	-2.965	0.003
β_{cg} (<i>partisan-compromise bargaining</i>)		-0.037	0.037	-0.988	0.323
<i>Controls</i>	x_1 (<i>open</i>)	15.891	5.279	3.010	0.003
	x_2 (<i>ToT</i>)	0.388	1.744	0.222	0.824
	x_3 (<i>open · ToT</i>)	-10.681	5.156	-2.072	0.039
	x_4 (<i>dxrig</i>)	-0.036	0.066	-0.544	0.587
	x_5 (<i>oy</i>)	2.064	1.094	1.886	0.060
<i>Pre- and Post-Electoral</i> <i>Indicators</i>	E_t	0.687	0.568	1.210	0.227
	E_{t-1}	1.490	0.645	2.310	0.021
γ_{en} (<i>common-pool effect: fractionalization</i>)		-0.547	0.182	-3.001	0.003
γ_{sd} (<i>common-pool effect: polarization</i>)		0.573	0.486	1.179	0.239
<i>Constituent</i> <i>Terms</i> <i>from the</i> <i>Interactions</i>	z_1 (<i>CoG</i>)	0.051	0.131	0.390	0.697
	z_2 (<i>ENoP</i>)	0.281	0.446	0.629	0.530
	z_3 (<i>SDwiG</i>)	0.542	0.437	1.242	0.215
	z_4 (<i>NoP</i>)	0.181	0.277	0.654	0.514
	z_5 (<i>ARwiG</i>)	-0.312	0.259	-1.205	0.228
Summary Statistics					
N (Deg. Free)		735 (691)		s_e^2	2.525
R² (\bar{R}^2)		0.991 (0.990)		DW-Stat.	2.101

- Pace Brambor et al. ('06), but joint-significance of multiple-policymaker conditioning effects ($\gamma_{en}, \gamma_{sd}, \rho_n, \rho_{ar}, \beta_{cg}$) overwhelmingly rejects excluding ($p \approx .001$), whereas joint-sig coeff's on constit. terms, \mathbf{z} , clearly fails reject ($p \approx .602$) exclusion. (Almost) All theory says should be zero, so...

		Coeff.	Std. Err.	t-Stat.	Pr($T > t$)
<i>Lagged</i>	D _{t-1}	1.207	0.060	20.290	0.000
<i>Dependent</i>	D _{t-2}	-0.158	0.085	-1.851	0.065
<i>Variables</i>	D _{t-3}	-0.117	0.045	-2.577	0.010
ρ_n (veto-actor effect: fractionalization)		0.011	0.005	2.369	0.018
ρ_{ar} (veto-actor effect: polarization)		-0.002	0.004	-0.437	0.662
<i>Macroeconomic</i> <i>Conditions</i>	ΔY	-0.375	0.087	-4.332	0.000
	ΔU	1.095	0.286	3.829	0.000
	ΔP	-0.207	0.053	-3.889	0.000
β_{cg} (partisan-compromise bargaining)		-0.051	0.020	-2.484	0.013
<i>Controls</i>	x ₁ (<i>open</i>)	16.128	5.314	3.035	0.002
	x ₂ (<i>ToT</i>)	0.414	1.728	0.239	0.811
	x ₃ (<i>open · ToT</i>)	-10.780	5.194	-2.076	0.038
	x ₄ (<i>dxrig</i>)	-0.038	0.066	-0.578	0.563
	x ₅ (<i>oy</i>)	1.898	1.100	1.724	0.085
<i>Pre- and Post-Electoral</i> <i>Indicators</i>	E _t	0.475	0.420	1.133	0.258
	E _{t-1}	1.146	0.562	2.040	0.042
γ_{en} (common-pool effect: fractionalization)		-0.570	0.209	-2.727	0.007
γ_{sd} (common-pool effect: polarization)		0.881	0.586	1.503	0.133
Summary Statistics					
N (Deg. Free)		735 (696)		s_e^2	2.522
R² (\bar{R}^2)		0.991 (0.990)		DW-Stat.	2.099

Veto-Actor Effects: Estimates of Policy-Adjustment Rate						
<i>Adjustment Rates</i>	<i>NoP=1</i>	<i>NoP=2</i>	<i>NoP=3</i>	<i>NoP=4</i>	<i>NoP=5</i>	<i>NoP=6</i>
Lag Coefficient^a	0.943	0.952	0.960	0.969	0.978	0.986
Policy-Adjust/Yr^b	0.057	0.048	0.040	0.031	0.022	0.014
Long-Run Mult.^c	17.498	20.639	25.154	32.200	44.727	73.208
1/2-Life^d	11.778	13.956	17.087	21.971	30.654	50.397
90%-Life^e	39.127	46.362	56.761	72.985	101.832	167.415
Bargaining Effects: Estimates of Keynesian Fiscal Responsiveness						
	<i>Mean Econ. Performance -2 std. dev.</i>	<i>Mean Econ. Performance -1 std. dev.</i>	<i>Mean Economic Performance</i>	<i>Mean Econ. Performance +1 std. dev.</i>	<i>Mean Econ. Performance +2 std. dev.</i>	
<i>Growth</i>	-2.354	0.454	3.261	6.069	8.877	
<i>d(UE)</i>	1.915	1.034	0.153	-0.728	-1.608	
<i>Infl</i>	-3.593	1.230	6.054	10.877	15.701	
<i>CoG</i>	<i>E(D Econ)^f</i>	<i>E(D Econ)</i>	<i>E(D Econ)</i>	<i>E(D Econ)</i>	<i>E(D Econ)</i>	<i>Fiscal-Cycle Magnitude^g</i>
3.0	3.157	0.599	-1.959	-4.516	-7.074	10.231
4.2	2.930	0.556	-1.818	-4.192	-6.566	9.496
5.4	2.703	0.513	-1.677	-3.867	-6.058	8.761
6.6	2.476	0.470	-1.536	-3.543	-5.549	8.026
7.8	2.250	0.427	-1.396	-3.218	-5.041	7.291
9.0	2.023	0.384	-1.255	-2.894	-4.533	6.555
Collective-Action/Common-Pool Effects: Estimates of Electoral Debt-Cycle Magnitude						
	<i>ENoP=1</i>	<i>ENoP=2</i>	<i>ENoP=3</i>	<i>ENoP=4</i>	<i>ENoP=5</i>	
Electoral-Cycle Magnitude^h	1.07410	0.86454	0.65497	0.44541	0.23585	

Extension: Ghandi & Przeworski ('04)

Veto-Actor Effect

- In other context, inequality, G&P ('04) show to model $\uparrow VA \Rightarrow \downarrow E(|\Delta p|)$ possibility jointly:

$$\Delta y_t = \frac{(y_t^* - y_{t-1})}{aV_t} = \frac{k + cX_t - y_{t-1}}{aV_t} = \frac{k}{a} \times \frac{1}{V_t} + \frac{c}{a} \times \frac{X_t}{V_t} - \frac{1}{a} y_{t-1}$$
$$\Rightarrow y_t = \frac{k}{a} \times \frac{1}{V_t} + \frac{c}{a} \times \frac{X_t}{V_t} + \frac{a-1}{a} y_{t-1}$$

- Will adapt, augment, & implement G&P, dropping some of their avoidable assumptions:
 - All RHS factors have effect through pol- Δ (i.e., pol-mkr controls y directly), & all dampened at same rate a .
 - VA effect on pol-adjust rate = VA effect on mag $E(|\Delta y|)$.
 - Claim these nec., & params k, c, a not separately i.d., but:
 - Can get k, c, a by lin-reg $y_t = b_0 + b_1 X_t + b_2 y_{t-1}$: $a = 1/(1-b_2)$, $c = b_1 a$, $k = b_0 a$
 - Can also usefully apply nonlinear (but use mult., not divide...)

Extension & Refinement

$$E(y_t) = \delta^0 + \mathbf{x}_t^0 \mathbf{b}^0 + (\rho_0 + \rho_1 \ln(NoP_t) + \rho_2 \ln(1 + ARwiG_t)) y_{t-1} \\ + \left\{ \begin{array}{l} \left[\mathbf{x}_t^1 \mathbf{b}^1 + \sum_{i=1}^I p(\mathbf{c}_{it}) \times q_i(\mathbf{x}_t^2) \right] \\ \times [1 + \gamma_1 \ln(ENoP_t) + \gamma_2 \ln(1 + SDwiG_t)] \end{array} \right\} \times [1 + \alpha_1 \ln(NoP_t) + \alpha_2 \ln(1 + ARwiG_t)]$$

- \mathbf{x}^0 = factors that affect policy-outcomes *unless* policymakers act to change *status quo*, i.e., that have effect on pol-out directly.
- \mathbf{x}^1 = factors affecting policy-outcomes *if* policymakers act to change status quo, *without* partisan-differentiated response
- \mathbf{x}^2 = factors affecting policy-outcomes *if* policymakers act to change status quo, *with* partisan-differentiated response
- $\{NoP, ARwiG\}$ = sources of **veto-actor effects**; as before
- $\{ENoP, SDwiG\}$ = sources of **common-pool effects**; as before
- $\{p(\mathbf{c}_{it}), q_j(\mathbf{x}_t)\}$ = sources of **bargaining & delegation effects**:
 - $p(\mathbf{c}_{it})$: Effective policy-influence of party i in context t . (E.g., as now: cabinet seat-shares, but could become richer model.)
 - $q_j(\mathbf{x}_t)$: Model of response of party i to pol-econ conditions \mathbf{x}_t . (E.g., as now: $CoG_i \times Macroecon_t$, but could become richer model.)

Preliminary Results of Fuller Model

		Coeff.	Std. Err.	t-Stat.	Pr($T > t$)	
Temporal Dynamics	D(t-1)	1.197	0.059	20.144	0.000	
	D(t-2)	-0.139	0.085	-1.629	0.104	
	D(t-3)	-0.121	0.045	-2.698	0.007	
Veto-Actor Effect On Outcome-Adjustment Rate		NoP	0.008	0.004	1.883	0.060
x_0 : Variables with “Direct” Effect on Outcome	Open	16.624	3.758	4.423	0.000	
	Open*ToT	-11.190	3.135	-3.569	0.000	
x_1 : Variables with Effects via Non-Partisan-Differentiated Policy Response	Ele(t)	0.315	0.363	0.867	0.386	
	Ele(t-1)	0.873	0.399	2.186	0.029	
	OY	2.833	1.295	2.187	0.029	
	DXRIG3	-0.073	0.072	-1.009	0.314	
Common-Pool Effect on Policy Response		ln(ENoP)	-0.277	0.071	-3.903	0.000
x_2 : Variables with Effects via Partisan-Differentiated Policy Response	Growth	-0.238	0.084	-2.815	0.005	
	d(UE)	0.749	0.228	3.289	0.001	
	Inflation	-0.137	0.047	-2.947	0.003	
Bargaining-Compromise Effects on Partisan Policy-Responses		CoG	-0.049	0.026	-1.893	0.059
Veto-Actor Effect On Policy-Adjustment Rate		NoP	0.215	0.121	1.773	0.077
<i>Common-Pool Effect on Debt Level</i>		<i>ln(ENoP)</i>	<i>1.128</i>	<i>0.486</i>	<i>2.320</i>	<i>0.021</i>
Summary Statistics						
N (Deg. Free)		735 (697)		s_e^2	2.510	
R² (\bar{R}^2)		0.991 (0.990)		DW-Stat.	2.090	