Remittances and Democratization

Online Appendix*

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Abstract

DDo remittances stabilize autocracies? We argue that remittances increase the likelihood of democratic transition by undermining electoral support for autocratic incumbents in party-based regimes. Remittances, or money sent by foreign workers to individuals their home country, differ from other sources of external non-tax revenue such as foreign aid because they accrue directly to individuals and thus raise the incomes of households. Remittances therefore make voters less dependent on state transfers in autocracies. As a result, autocracies that rely heavily on the broad-based distribution of spoils for their survival, namely party-based regimes, should be especially vulnerable to increases in remittances. We find that remittances increase the likelihood of democratization in party-based dictatorships, and explore a potential causal mechanism by showing that remittances are associated with a decline in electoral support for incumbents in party-based autocracies.

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Table 1: Summary statistics

Variable	Mean	Std. Dev.	Min.	Max.	N
Democratic transition	0.03	0.17	0	1	1567
Duration time	21.77	18.19	1	91	1567
Remittances per capita (lag, logged)	2.47	1.55	0.01	6.98	1567
Party regime	0.42	0.49	0	1	1567
Calendar time	17.4	9.70	0	34	1567
GDP per capita (lag, logged)	6.62	1.03	4.63	9.23	1530
Population (lag, logged)	16.21	1.47	13.13	21	1567
Civil war (lag)	0.28	0.58	0	2	1567
Neighbor democratization (lag)	0.43	0.68	0	2	1564
Net migration (lag, log)	-0.01	0.03	-0.25	0.26	1522
Economic growth (lag)	1.81	4.63	-23.54	29.07	1500
Protest (lag, logged)	0.37	0.70	0	3.91	1564
Aid per capita (lag, logged)	6.29	3.44	1.04	34.43	1496
Oil rents per capita (lag, logged)	1.96	2.62	0	9.12	1521
Capital account openness (lag)	-0.55	1.26	-1.86	2.46	1496

Table S-2: Sample regimes

	Democ.		;		Democ.	1					;
Autocratic	in	Party	Years in	Autocratic	in	Party	Years in	Autocratic	in	Party	Years in
Regime	sample	Reg.	sample	Regime	sample	Reg.	sample	Regime	sample	Reg.	sample
Algeria 62-92	0	П	1975 - 1992	Guatemala 70-85	0	0	1978 - 1985	Nigeria 83-93	0	0	1984 - 1993
Algeria 92-NA	0	0	1993 - 2009	Guatemala 85-95	1	0	- 1	Nigeria 93-99	П	0	1994 - 1999
Angola 75-NA	0	П	1997 - 2009	Guinea 08-10	0	0	- 1	Oman 1741-NA	0	0	1979 - 2009
Argentina 76-83	П	0	1979 - 1983	Guinea 84-08	0	0	1987 - 2008	Pakistan 75-77	0	0	1977 - 1977
Armenia 94-98	0	0	1996 - 1998	Guinea Biss. 80-99	1	0	1989 - 1999	Pakistan 77-88	Н	0	1978 - 1988
Armenia 98-NA	0	0	1999 - 2009	Haiti 57-86	0	0	1975 - 1986	Pakistan 99-08	П	0	2000 - 2008
Azerbaijan 93-NA	0	0	1996 - 2009	Haiti 86-88	0	0	1987 - 1988	Panama 68-82	0	0	1978 - 1982
Bangladesh 07-08	П	0	2008 - 2008	Haiti 88-90	1	0	1989 - 1990	Panama 82-89	П	0	1983 - 1989
Bangladesh 75-82	0	0	1977 - 1982	Haiti 91-94	П	0	1992 - 1994	Paragnay 54-93	П	1	1976 - 1993
Bangladesh 82-90	П	0	1983 - 1990	Haiti 99-04	1	0	2000 - 2004	Peru 92-00	П	0	1993 - 2000
Belarus 91-94	0	П	1994 - 1994	Honduras 72-81	1	0	1975 - 1981	Philippines 72-86	П	0	1978 - 1986
Belarus 94-NA	0	0	1995 - 2009	Indonesia 66-99	1	П	- 1	Russia 93-NA	0	0	1995 - 2009
Benin 72-90	1	0	1975 - 1990	Iran 79-NA	0	_	1992 - 2009	Rwanda 73-94	0	0	1977 - 1994
Bolivia 71-79	0	0	1977 - 1979	Ivory Coast 00-NA	0	0	2001 - 2009	Rwanda 94-NA	0	1	1995 - 2009
Bolivia 80-82	1	0	1981 - 1982	Ivory Coast 60-99	0	1	1976 - 1999	S. Arabia 27-NA	0	0	2006 - 2009
Botswana 66-NA	0	П	1976 - 2009	Ivory Coast 99-00	0	0	2000 - 2000	Senegal 60-00	П	1	1975 - 2000
Brazil 64-85	1	0	1976 - 1985	Jordan 46-NA	0	0	1975 - 2009	Serbia 91-00	П	1	1997 - 2000
Burkina Faso 66-80	0	0	1975 - 1980	Kazakhstan 91-NA	0	0	1996 - 2009	Sierra Leone 68-92	0	П	1981 - 1992
Burkina Faso 80-82	0	0	1981 - 1982	Kenya 63-02	1	П	1975 - 2002	Sierra Leone 92-96	П	0	1993 - 1996
Burkina Faso 82-87	0	0	1983 - 1987	Korea South 61-87	П	0	1977 - 1987	Sierra Leone 97-98	П	0	1998 - 1998
Burkina Faso 87-NA	0	0	1988 - 2009	Kyrgyzstan 05-10	0	0	2006 - 2009	Somalia 69-91	0	0	1980 - 1984
Cambodia 79-NA	0	П	1993 - 2009	Kyrgyzstan 91-05	0	0	1994 - 2005	South Africa 10-94	П	1	1975 - 1994
Cameroon 60-83	0	П	1980 - 1983	Laos 75-NA	0	П	1985 - 2009	Spain 39-76	П	0	1976 - 1976
Cameroon 83-NA	0	0	1984 - 2009	Lesotho 70-86	0	П	1	Sri Lanka 78-94	П	1	1979 - 1994
Cen Afr Rep 66-79	0	0	1978 - 1979	Lesotho 86-93	П	0	1	Sudan 69-85	0	0	- 1
Cen Afr Rep $79-81$	0	0	1981 - 1981	Libya 69-NA	0	0	1	Sudan 85-86		0	1
Cen Afr Rep 81-93	0	0	1982 - 1992	Madagascar 72-75	0	0	1	Sudan 89-NA	0	0	
Chad 82-90	0	0	1986 - 1990	Madagascar 75-93	П	0	1	Swaziland 68-NA	0	0	1
Chad 90-NA	0	0	1993 - 1995	Malaysia 57-NA	0		1	Syria 63-NA	0	П	1
Chile 73-89	П	0	1984 - 1989	Mali 68-91	1	0	1	Tajikistan 91-NA	0	0	1
China 49-NA	0	_	1979 - 2009	Mauritania 05-07	_	0	1	Tanzania 64-NA	0	П	1
Congo-Brz 97-NA	0	0		Mauritania 08-NA	0	0	1	Thailand 06-07	Н	0	1
Congo-Brz 68-91	0	_		Mauritania 60-78	0	0	1	Thailand 76-88	_	0	1
Dom. Rep 66-78	Н	0	1975 - 1978	Mauritania 78-05	0	0	1	Thailand 91-92	Н .	0	1
Ecuador 72-79	П	0	1977 - 1979	Mexico $15-00$	П	_	1	$Togo\ 67-NA$	0	0	1
Egypt $52-NA$	0	_		Morocco 56 -NA	0	0	1	Tunisia 56-NA	0	П	1
El Salvador 48-82	0	—	1977 - 1982	Mozamb. 75-NA	0		1	Turkey 80-83	П	0	1
El Salvador 82-94	П	0	1983 - 1994	Myanmar 62-88	0	0	1	Turkmen. 91-NA	0	1	
Eritrea 93-NA	0	_	1999 - 2001	Myanmar 88-NA	0	0	1	Uganda 86-NA	0	0	2000 - 2009
Ethiopia 74-91	0	0	1978 - 1991	Namibia 90-NA	0	_	1	Uruguay 73-84	0	0	1
Ethiopia 91-NA	0	_	1992 - 2009	Nepal 02-06	П	0	1	Venezuela 05-NA	0	0	1
Gabon 60-NA	0	.	1979 - 2009	Nicaragua 36-79	0	0	1	Vietnam 54-NA	0	П	1
Gambia 65-94	0	_	1976 - 1994	Nicaragua 79-90	0	_	1	Yemen 78-NA	0	0	1
Gambia 94-NA	0	0	1995 - 2009	Niger 74-91	_	0	1	Zambia 96-NA	0	П	1
Georgia 92-03	П	0	1998 - 2003	Niger 96-99	П	0	1	Zimbabwe 80-NA	0	П	1981 - 1995
Ghana 81-00		0	1982 - 2000	Nigeria 66-79	1	0	1978 - 1979				

Years listed next to autocratic regime are the calendar years the regime held power on January 1. NA \equiv Right censored. The sample covered the period from 1975-2009, with non-missing data on remittances. Democratic transition is a binary indicator of whether the regime transitioned to democracy during the sample period. Party is a binary indicator of whether the dictatorship is a party regime. Years in sample listed in separate column.

Table S-3: Democratic transitions (31 of 49 are elections)

Autocratic regime	Year	Election
Argentina 76-83	1983	1
Bangladesh 07-08	2008	1
Bangladesh 82-90	1990	0
Benin 72-90	1990	0
Bolivia 80-82	1982	0
Brazil 64-85	1985	1
Chile 73-89	1989	1
Dominican Rep 66-78	1978	1
Ecuador 72-79	1979	1
El Salvador 82-94	1994	1
Georgia 92-03	2003	0
Ghana 81-00	2000	1
Guatemala 85-95	1995	1
Guinea Bissau 80-99	1999	0
Haiti 88-90	1990	1
Haiti 91-94	1994	0
Haiti 99-04	2004	0
Honduras 72-81	1981	1
Indonesia 66-99	1999	1
Kenya 63-02	2002	1
Korea South 61-87	1987	0
Lesotho 86-93	1993	1
Madagascar 75-93	1993	1
Mali 68-91	1993	0
Mauritania 05-07		1
Mexico 15-00	$\frac{2007}{2000}$	1
	2006	0
Nepal 02-06		0
Niger 74-91 Niger 96-99	1991 1999	1
0		1
Nigeria 66-79	1979	1
Nigeria 93-99	1999	
Pakistan 77-88	1988	1
Pakistan 99-08	2008	0
Panama 82-89	1989	0
Paraguay 54-93	1993	1
Peru 92-00	2000	0
Philippines 72-86	1986	0
Senegal 60-00	2000	1
Serbia 91-00	2000	0
Sierra Leone 92-96	1996	1
Sierra Leone 97-98	1998	0
South Africa 10-94	1994	1
Spain 39-76	1976	1
Sri Lanka 78-94	1994	1
Sudan 85-86	1986	1
Thailand 06-07	2007	1
Thailand 76-88	1988	1
Thailand 91-92	1992	0
Turkey 80-83	1983	1

Table S-4: Autocratic transitions (3 of 34 are elections)

Autocratic regime	Year	Election
Algeria 62-92	1992	0
Armenia 94-98	1998	0
Bangladesh 75-82	1982	0
Belarus 91-94	1994	1
Bolivia 71-79	1979	1
Burkina Faso 66-80	1980	0
Burkina Faso 80-82	1982	0
Burkina Faso 82-87	1987	0
Cameroon 60-83	1983	0
Cen African Rep 66-79	1979	0
Cen African Rep 79-81	1981	0
Chad 82-90	1990	0
El Salvador 48-82	1982	0
Ethiopia 74-91	1991	0
Gambia 65-94	1994	0
Guatemala 70-85	1985	1
Guinea 84-08	2008	0
Haiti 57-86	1986	0
Haiti 86-88	1988	0
Ivory Coast 60-99	1999	0
Ivory Coast 99-00	2000	0
Kyrgyzstan 91-05	2005	0
Lesotho 70-86	1986	0
Madagascar 72-75	1975	0
Mauritania 60-78	1978	0
Mauritania 78-05	2005	0
Myanmar 62-88	1988	0
Nicaragua 36-79	1979	0
Nigeria 83-93	1993	0
Pakistan 75-77	1977	0
Panama 68-82	1982	0
Rwanda 73-94	1994	0
Sierra Leone 68-92	1992	0
Sudan 69-85	1985	0

Appendix A: robustness tests

Chamberlain's random effects probit

Wooldridge (2002, 487) calls the approach that we employ in this paper *Chamberlain's random effects probit*. Sometimes, researchers refer to this estimator as a "correlated random effects" model. The original citations for this approach, to our knowledge, are Mundlak (1978) and Chamberlain (1982). The main equation we estimate is the following:

$$Pr(Y_t = 1 | Y_{t-1} = 0) = \alpha_{j[i]} + \beta_1 X_{i,t-1} + \gamma_1 \bar{X}_i + \varepsilon_{i,t}$$
(1)

where $\alpha_{j[i]}$ are the random effects and β_1 is the vector of coefficients for the time-varying variables of interest. An alternative is to specify the time-varying information as centered variables:

$$Pr(Y_t = 1|Y_{t-1} = 0) = \alpha_{j[i]} + \beta_2(X_{i,t-1} - \bar{X}_i) + \gamma_2 \bar{X}_i + \mu_{i,t}$$
(2)

Note that the estimates of β_1 and β_2 are the same but the estimates of γ_1 and γ_2 are different. We treat the \bar{X}_i 's as control variables (i.e. unit effects) and do not interpret the γ 's. For our purposes, (1) and (2) are the same. Others have used a similar approach, for example Zorn (2001), but he interprets the γ 's and therefore must use equation (2).

Additional results

This appendix reports the results of a series of robustness tests of the findings reported in Table 1. All the specifications in Tables A1-A2 use the same set of controls as those reported in columns (3) and (4) of Table 1. Table A-1 reports models that: (1) control for state capacity; (2) control for repression; (3) control for protest interacted with remittances; (4) use a remittance variable without population in the denominator; and (5) use the lagged two-year moving average for remittances instead of the one-year lag. Table A-2 reports specifications that: (1) include the year means of the explanatory variables as controls instead of a time trend¹; (2) employ a linear probability model with country- and year-fixed effects; (3) employ a conditional logit; and drop Latin American countries from the sample. Figure A-1 shows that the main result from Table 1 is robust to dropping each party regime from the sample, one-at-a-time. Figure A-2 shows the substantive result from the linear probability models (with country- and year-fixed effects).

Table A-3 reports findings using the Cheibub, Gandhi and Vreeland (2010) data on transition from non-democracy to democracy, employing both probit (with unit means) and linear probability (with country fixed effects) estimators. Table A-4 reports the same models as those in Table 1,

¹This is similar to including year fixed effects using the mean value approach.

except with a binary indicator for *Personalist* dictatorship and the interaction between this variable and *Remit*. These specifications do not change the main result but show that remittances are not correlated with the risk of democratic transition in personalist dictatorships. Table A-5 employs the model specification from Table 1, columns 3 and 4, but separates pure party-based regimes from hybrid-party regimes (party-military, party-personalist, and party-personalist-military). The main result for the interaction terms and for the linear combinations are positive and stastically different from zero.

Table A-6 reports results from specification with a different dependent variable: Autocratic transition. These are political events of autocratic regime collapse where the subsequent regime is not a democracy but rather a new autocratic regime. The results indicate that there is no empirical relationship between remittances and the likelihood of autocratic transitions. Figure 3 in the main text shows the substantive result from the Autocratic transitions model, using the observed values approach; and contrasts this substantive result with the finding for Democratic transition, again using the mean value approach suggested by Hanmer and Kalkan (2013).

Finally, Table A-7 examines the plausibility of the hypothesized causal mechanism in more detail by incorporating information from election years into the analysis in two ways.

First, we include a dummy variable for election year² And we then interact this variable with remittances. We stress that this strategy is *not* a good one for assessing how *elections* influence democratic transitions because the information used to code election year is the exact same political event as the information used to code democratic transition (i.e. the election event when the incumbent loses). Thus, the *exact* same political event is the information for coding variables included on both sides of the model, making the interpretation of the *election* variable somewhat nonsensical. However, this can be a useful empirical exercise to examine whether the cases in which there is the expected correlation between remittances and democratic transition occur in election years or non-election years.

The first three columns of Table A-7 use the correlated random effects approach employed in the models in Table 1. The first column reports a model that adds Election to the specification. The second column adds both Election and $Election \times Remit$. While election years are correlated with democratic transition in both models,³ the estimate for $Election \times Remit$ is not statistically different from zero, suggesting that remittances are not increasing the risk of transition during election years (on average, across all autocratic regime types). The model in the third column includes three two-way interaction terms and a three-way interaction term: $Election \times Remit$, $Election \times Party$, Ele

²Data on election year comes from the NELDA data set (Hyde and Marinov 2012). The variable we employ marks the calendar year of the final round of an election in which the seat of the incumbent is contested.

³Again, we stress that this result is nonsensical because the political event in the dependent variable is often the same event as the event used to code the election year variable.

be difficult so we report the linear combination of the coefficients for four quantities of interest for the marginal effect of remittances:

- No Election year, No Party regime: β_{Remit}
- Yes Election year, No Party regime: $\beta_{Remit} + \beta_{Election \times Remit}$
- No Election year, Yes Party regime: $\beta_{Remit} + \beta_{Remit \times Party}$
- Yes Election year, Yes Party regime: $\beta_{Remit} + \beta_{Election \times Remit} + \beta_{Remit \times Party} + \beta_{Election \times Remit \times Party}$

The only estimate of interest that is statistically different from zero (in the linear combination of coefficients) is the last: the marginal effect of remittances in election years in party regimes. This indicates that positive correlation between remittances and democratic transition in party regimes is concentrated in election years, as would be expected if the proximate causal mechanism linking remittances to democratic transition is the loss of electoral support for incumbents in party regimes. The next three columns repeat this set of specifications using a linear probability model with country-fixed effects. This approach yields similar results.

The last two columns of Table A-7 only examine election years, dropping all non-election year observations from the sample. This substantially reduces the sample size and means that there are only a few observations per country. In keeping with the spirit of the correlated random effects model, we use the full-sample means of the covariates to model unit fixed effects, and continue to employ a random effects probit with standard errors clustered on country. Thus the interpretation of the reported estimates for *Remit* can be interpreted as the deviation from the unit mean (calculated using the full sample, and not just election years). These models again indicate that remittances are correlated with the likelihood of democratic transition in party regimes.

Table A-1: Remittances and democratic transition

							No pop	No population in <i>Remit</i>	2-year MA for <i>Bemit</i>	MA
	(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)
Remit	0.054	-0.001	0.052	0.001	0.127	0.086	0.055	0.014	0.169	0.133
$\mathrm{Remit} \times \mathrm{Party}$	(0.15)	$(0.16) \\ 0.461 + \\ (0.95)$	(0.12)	(0.12) $0.353*$	(0.13)	$(0.12) \\ 0.345* \\ (0.16)$	(0.09)	0.388*	(0.12)	(0.13) 0.338* (0.16)
Party regime	-0.527	(0.23) $-1.341+$ (0.77)	-0.612+	(0.14) -1.428**	-0.775*	(0.10) $-1.582**$	-0.458	$^{(0.13)}_{-1.446*}$	-0.404	(0.10) -1.212** (0.42)
Log GDP pc	(0.36) -2.361*	-2.501*	(0.30) $-1.230+$	(0.41) $-1.246+$	(0.59) -0.915	-0.981	(0.39) $-1.180+$	(0.42) $-1.211*$	(0.36) -1.257*	(0.45) $-1.193+$
Log population	(0.99) -8.445**	(1.05) $-7.933**$	(0.66) $-4.934*$	(0.66) $-5.085**$	(0.62) $-5.491**$	(0.64) $-5.592**$	(0.61) $-5.245**$	(0.61) $-5.405**$	(0.64) $-5.082**$	(0.63) -5.048**
Civil conflict	(2.67)	(2.60)	(2.00)	(1.85) -0.164	(1.90)	(1.77)	(1.74)	(1.61)	(1.78)	(1.63)
	(0.27)	(0.28)	(0.18)	(0.20)	(0.17)	(0.18)	(0.16)	(0.18)	(0.16)	(0.18)
Nbr democratization	0.222 (0.14)	0.229 (0.14)	0.081 (0.10)	0.090 (0.11)	0.061 (0.11)	0.074 (0.11)	0.095 (0.11)	0.107 (0.11)	0.080 (0.11)	(0.101)
State capacity 1	1.196^{*}	1.289*								
State capacity 2	(0.48)	(0.51)								
, , , , , , , , , , , , , , , , , , ,	(0.44)	(0.46)								
State capacity 3	-0.190 (0.12)	-0.183 (0.13)								
Repression			0.140	0.133						
Protest			(21:0)	(21:0)	0.297	0.306				
$\mathrm{Remit} \times \mathrm{Protest}$					(0.23) -0.044 (0.07)	(0.24) -0.049 (0.07)				
(Intercept)	-4.927+(2.73)	-4.750+ (2.77)	-2.302 (1.48)	-2.031 (1.46)	(1.33)	(5.51) -1.061 (1.27)	-3.604** (1.15)	-3.419** (1.11)	-3.469** (1.13)	-3.347** (1.13)
$\beta_{Remit} + \beta_{Remit \times Party}$		0.460+ (0.27		0.353*		0.431*		0.402*		0.472*
$N \times T$ Countries	1035 51	1035 51	1476 87	1476 87	1524 88	$\frac{1524}{88}$	1527 88	1527 88	1527 88	1527 88

+ p<0.10;* p<0.05; ** p<0.01. Dependent variable is democratic transition. Rregime duration polynomials and time trends not reported. All models include the unit mean of explanatory variables, not reported. T \equiv 1975-2009.

Table A-2: Remittances and democratic transition, additional models

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		ntry, means		robability Year FE		itional git	Dre Latin A	1
Remit	0.339** (0.12)	0.285* (0.11)	0.014+ (0.01)	0.010 (0.01)	-0.173 (0.61)	-0.370 (0.61)	0.373* (0.16)	0.334* (0.15)
$Remit \times Party$	(-)	0.359+ (0.19)	()	0.010 (0.01)	()	5.883* (2.45)	()	$0.332+\ (0.18)$
Party regime	-0.580 (0.53)	-1.544* (0.74)	-0.006 (0.04)	-0.025 (0.05)	-13.080** (2.79)	-45.165** (13.95)	-0.839 (0.51)	-1.705* (0.71)
Log GDP pc	0.075 (0.60)	0.098 (0.59)	-0.059 (0.04)	-0.059 (0.04)	-2.403 (4.53)	-2.405 (4.50)	-0.016 (0.73)	0.025 (0.73)
Population	3.590*** (0.91)	3.819** (0.94)	-0.384** (0.13)	-0.387** (0.13)	-39.765 (25.07)	-40.333 (25.27)	2.826** (0.97)	3.047** (1.03)
Civil conflict	0.028 (0.17)	-0.038 (0.17)	-0.011 (0.01)	-0.011 (0.01)	0.219 (0.67)	0.215 (0.72)	0.086 (0.19)	0.009 (0.20)
Neighbor democratization	0.188 (0.15)	0.198 (0.15)	0.012 (0.01)	0.012 (0.01)	$0.34\vec{3}$ (0.27)	0.410 (0.27)	$0.320+\ (0.18)$	0.337+ (0.18)
(Intercept)	33.204** (12.61)	34.438** (13.35)	6.334** (2.19)	6.387** (2.15)	746.160 (478.31)	779.366 (481.45)	43.869** (15.87)	44.960* (17.87)
$\beta_{Remit} + \beta_{Remit \times Party}$		0.644** (0.23)		$0.020+\ (0.01)$		5.513* (2.41)		0.666* (0.27)
N×T Countries	1527 88	1527 88	1527 88	1527 88	575 64	575 64	1361 71	1361 71

⁺ p<0.10;* p<0.05; ** p<0.01. Dependent variable is democratic transition. Constant, regime duration polynomials, time trends, unit means or fixed effects not reported. GDP per capita, population, civil war and neighbor democratization lagged one year. All models include the unit mean of all explanatory variables (not reported). T \equiv 1975-2009.

Table A-3: Remittances and CGV democratic transition

	(1)	(2)	(3)	(4)
Remit	0.218+	0.138	0.019*	0.013
Technic	(0.12)	(0.13)	(0.01)	(0.01)
Remit \times Party	(0.12)	0.507**	(0.01)	0.013
•		(0.19)		(0.01)
Party-based regime	-0.264	-1.277*	0.000	-0.026
	(0.39)	(0.56)	(0.02)	(0.03)
$\beta_{Remit} + \beta_{Remit \times Party}$		0.645**		0.026**
		(0.20)		(0.01)
Model	\Pr	obit	L	PM
Unit	$M\epsilon$	eans	I	FE
Calendar Time	Tr	end	I	FE

⁺ p<0.10;* p<0.05; ** p<0.01. Dependent variable is democratic transition from Cheibub, Gandhi and Vreeland (2010). Constant, regime duration polynomials, time trends, GDP per capita, population, civil war, and neighbor democracy not reported. GDP per capita, population, civil war and neighbor democratization lagged one year. Columns (1) and (2) include the unit mean of all explanatory variables (not reported). $T\!\equiv 1574.~1975\text{-}2009.$

Table A-4: Remittances and democratic transition

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Remit	0.320**	0.328+	0.149	0.207	0.130	0.198	0.220	0.272	0.164	0.273
	(0.11)	(0.18)	(0.11)	(0.18)	(0.11)	(0.17)	(0.14)	(0.20)	(0.18)	(0.23)
Remit× Party	` ′	0.420**	` ,	0.371**	, ,	0.406*	, ,	0.410**	` ′	0.323*
		(0.13)		(0.14)		(0.16)		(0.15)		(0.16)
Remit \times Personal		-0.240		-0.435		-0.403		-0.321		-0.521+
		(0.24)		(0.29)		(0.29)		(0.30)		(0.30)
Party regime	-0.645+	-2.028**	-0.863*	-2.068**	-0.907 +	-2.281**	-1.490**	-2.718**	-1.447**	-2.272**
	(0.38)	(0.42)	(0.42)	(0.41)	(0.48)	(0.55)	(0.57)	(0.58)	(0.47)	(0.53)
Personal regime	-1.131*	-0.746	-1.561*	-0.839	-1.758*	-1.065	-1.728*	-1.167	-1.869*	-0.907
	(0.50)	(0.84)	(0.70)	(1.05)	(0.75)	(1.09)	(0.87)	(1.27)	(0.95)	(1.27)
$\beta_{Remit}+$		0.749**		0.578**		0.604**		0.682**		0.600*
$\beta_{Remit \times Party}$		(0.22)		(0.21)		(0.23)		(0.26)		(0.28)
β_{Remit} +		0.088		-0.229		-0.205		-0.049		-0.249
$\beta_{Remit \times Personal}$		(0.22)		(0.22)		(0.22)		(0.24)		(0.27)
$N \times T$	1567	1567	1527	1527	1485	1485	1470	1470	1381	1381
Countries	91	91	88	88	88	88	88	88	85	85

⁺ p<0.10;* p<0.05; ** p<0.01. Dependent variable is democratic transition. Regime duration polynomials and time trend not reported. All models include the unit mean of all explanatory variables (not reported). T \equiv 1975-2009.

Table A-5: Separate pure party regimes and hybrid-party regimes

	(1)	(2)
Remit	0.139	0.068
Pure party	(0.12) $-0.870+$	(0.12) $-1.521**$
rule party	(0.49)	(0.56)
Hybrid party	-0.089 (0.54)	-2.399** (0.64)
Remit \times pure party	(0.54)	0.285*
Remit \times hybrid party		(0.13) 1.027** (0.26)
		(0.20)
$\beta_{Remit} + \beta_{Remit \times pure party}$		0.352* (0.12)
$\beta_{Remit} + \beta_{Remit \times hybrid party}$		1.094** (0.27)

⁺ p<0.10;* p<0.05; ** p<0.01. Random effects probit with clustered standard errors in parentheses. Dependent variable is democratic transition. Unit means, constant, regime duration polynomials, time trends, GDP per capita, population, civil war, and neighbor democracy not reported. GDP per capita, population, civil war and neighbor democratization lagged one year. N \times T \equiv 1527. 88 countries from 1975-2009. Hybrid-party regimes are those coded as party-personalist, party-military, or party-military-personalist.

Table A-6: Remittances and autocratic transition

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Remit	0.034	0.046	0.092	0.100	0.103	0.112	0.048	0.054	0.054	0.045
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(0.19)	(0.20)	(0.18)	(0.18)	(0.18)	(0.19)	(0.20)	(0.20)	(0.19)	(0.20)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$Remit \times Party$	(/	\	()	\ /	()	(/	()	\ /	(/	\ /
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	v		(0.20)		(0.18)		(0.18)		(0.18)		(0.18)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Party	-0.228	-0.156	-0.066	-0.010	0.042	0.098	-0.001	0.013	-0.256	-0.592
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	· ·	(0.39)	(0.59)	(0.41)	(0.61)	(0.45)	(0.64)	(0.48)	(0.71)	(0.46)	(0.71)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Log GDP pc	,	, ,	-0.185	-0.200	-0.198	-0.215	-0.477	-0.501	-0.390	-0.542
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				(0.64)	(0.64)	(0.63)	(0.64)	(0.66)	(0.66)	(0.82)	(0.86)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Log population			2.878	2.931	3.006	3.090	3.477	3.570	4.036	4.143
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				(2.92)	(2.99)	(2.75)	(2.80)	(3.01)	(3.05)	(3.99)	(4.10)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Civil conflict			0.666**	0.663**	0.582**	0.579**	0.635**	0.629**	0.630*	0.622*
Net migration $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				(0.20)	(0.19)	(0.21)	(0.21)	(0.23)	(0.22)	(0.27)	(0.27)
Net migration $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Nbr democracy			0.191	0.193	0.167	0.169	0.141	0.144	0.184	0.191
Growth $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				(0.13)	(0.13)	(0.12)	(0.12)	(0.12)	(0.12)	(0.13)	(0.14)
Growth $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Net migration					-3.271+	-3.350+	-4.097+	-4.255*	-4.212	-4.802+
Protest $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						(1.77)	(1.76)	(2.09)	(2.14)	(2.61)	(2.62)
Protest $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Growth							0.011	0.011	0.013	0.015
Aid $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								(0.02)	(0.02)	(0.03)	(0.02)
Aid $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Protest							0.101	0.100	0.091	0.075
Oil $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								(0.21)	(0.21)	(0.19)	(0.19)
Oil College College	Aid									0.048	0.040
KA open $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										(0.05)	(0.05)
KA open $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Oil									-0.127	-0.150
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										(0.15)	(0.15)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	KA open									-0.429*	-0.433*
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										(0.19)	(0.18)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(Intercept)	-1.261**	-1.227*	1.333	1.325	1.217	1.179	1.506	1.333	-1.167	-2.431
$\beta_{Remit \times Party}$ (0.25) (0.23) (0.23) (0.24) (0.25) N×T 1567 1567 1527 1527 1485 1485 1470 1470 1381 1381		(0.47)	(0.48)	(1.25)	(1.26)	(1.21)	(1.18)	(1.34)	(1.28)	(2.56)	(2.59)
$\beta_{Remit \times Party}$ (0.25) (0.23) (0.23) (0.24) (0.25) N×T 1567 1567 1527 1527 1485 1485 1470 1470 1381 1381											
N×T 1567 1567 1527 1527 1485 1485 1470 1470 1381 1381	$\beta_{Remit}+$										
	$\beta_{Remit \times Party}$		(0.25)		(0.23)		(0.23)		(0.24)		(0.25)
Countries 91 91 88 88 88 88 88 88 85 85											
	Countries	91	91	88	88	88	88	88	88	85	85

⁺ p<0.10;* p<0.05; ** p<0.01. Dependent variable is democratic transition. Regime duration polynomials and time trend not reported. All models include the unit mean of all explanatory variables (not reported). T \equiv 1975-2009.

Table A-7: Remittances, elections, and democratic transitions

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		Correlated RE probit			ıear probabi Country, Ye			ction only
Remit	0.017 (0.13)	0.090 (0.13)	0.100 (0.13)	0.009 (0.01)	0.012 (0.01)	0.006 (0.01)	0.054 (0.22)	-0.111 (0.29)
Remit \times Party	0.443* (0.19)	(0.13)	0.087 (0.17)	0.012 (0.01)	(0.01)	0.009 (0.01)	(0.22)	0.810* (0.37)
Remit \times Election	,	-0.011 (0.12)	-0.144 (0.15)	,	0.013 (0.02)	0.006 (0.03)		,
Party × Election			-1.659+ (0.88)			-0.176* (0.08)		
Remit \times Party \times Election Party	-1.446**	-0.445	0.823** (0.30) -0.925*	-0.029	-0.005	0.028 (0.03) -0.005	-1.265	-3.546**
Election	(0.42) $1.235**$	(0.43) 1.248**	(0.42) 1.500**	(0.04) 0.118**	(0.04) (0.087+	(0.04) 0.151*	(0.79)	(1.30)
Log GDP pc	(0.18) -1.418*	(0.34) -1.395*	(0.42) -1.254*	(0.02) $-0.074+$	(0.05) $-0.074+$	(0.07) $-0.072+$	-0.365	-0.139
Population	(0.60) -6.219**	(0.59) -6.043**	(0.62) -5.889**	(0.04) -0.396**	(0.04) -0.386**	(0.04) -0.384**	(0.92) -5.107	(1.08) -4.097
Civil conflict	(1.57) 0.058	(1.74) 0.107	(1.59) 0.092	(0.12) -0.010	(0.12) -0.009	(0.12) -0.007	(3.17) -0.786*	(3.43) -0.919**
Nbr democratization	(0.19) 0.142 (0.11)	(0.18) 0.127 (0.11)	(0.18) 0.139 (0.11)	(0.01) 0.011 (0.01)	(0.01) 0.011 (0.01)	(0.01) 0.011 (0.01)	(0.36) 0.110 (0.22)	(0.34) 0.072 (0.24)
(Intercept)	-3.228* (1.42)	-3.508* (1.41)	-3.160* (1.51)	6.623** (2.00)	6.453** (2.04)	6.424** (2.02)	-4.146+ (2.29)	-4.392+ (2.45)
β_{Remit}	0.017	0.090	0.100	0.009	0.012	0.006	0.054	-0.111
$\beta_{Remit} + \beta_{Remit \times Party}$	(0.13) $0.461*$ (0.22)	(0.13)	(0.13) 0.187 (0.21)	(0.01) $0.020*$ (0.01)	(0.01)	(0.01) 0.016 (0.01)	(0.22)	(0.29) $0.700+$ (0.39)
$\beta_{Remit} + \beta_{Remit \times Election}$	(0.22)	0.079 (0.15)	-0.044 (0.17)	(0.01)	0.024 (0.02)	0.011 (0.03)		(0.00)
$\beta_{Remit} + \beta_{Remit \times Election} + \beta_{Remit \times Party} +$		()	0.866** (0.30)		(- ~-)	0.050* (0.02)		
$\beta_{Remit \times Election \times Party}$								
N×T Countries	1527 88	1527 88	1527 88	1527 88	1527 88	1527 88	215 67	215 67

⁺ p<0.10;* p<0.05; ** p<0.01. Dependent variable is democratic transition. Constant, regime duration polynomials, time trends, unit means or fixed effects not reported. GDP per capita, population, civil war and neighbor democratization lagged one year. T \equiv 1975-2009.

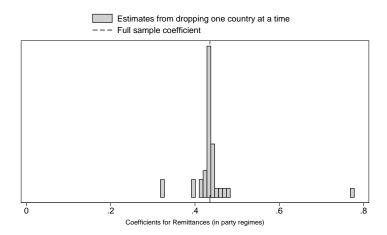


Figure A-1: Coefficients for Remittances (party regimes only). The vertical bars show the estimated coefficients for $\beta_{Remittances} + \beta_{RemittxParty}$ for the model in column 4, Table 1 when each party regime is excluded from the sample. Vertical dotted line shows the estimated coefficient reported in column 4, Table 1.

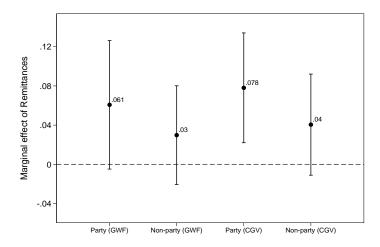


Figure A-2: Remittances and democratization, linear probability models. The horizontal axis depicts the marginal effect of a two-standard deviation increase in remittances (3 log units). The left two estimates are from a linear probability model in Table A-1, column 10. The right two estimates from Table A-2, column 4. Point estimates and 95 percent confidence intervals depicted.

Appendix B: Two-stage model

The excluded instrument, WRemitDistance, is constructed as follows:

- calculate the constant dollar value sum of all remittances received in High Income OECD countries (World Bank classification)⁴ in year t
- lag this variable one year because the endogenous remittance variable is lagged one year
- log this variable to ensure extreme values in the skewed distribution do not influence the first stage estimates
- multiply this variable by the share of the land area in country i that lies within 100km of an ice-free coast \times the share of land area in country i that has fertile soil

This variable contains both cross-sectional (geographic features) and time-varying (yearly sum of high income country remittances) information. The share of the land area that lies near the coast is a proxy for the ease of migration from the remittance-receiving country. According to this logic, remittance flows to countries such as Cote d'Ivoire, El Salvador, Gambia, Indonesia, Malaysia, and Tunisia should be more closely tied to remittance-receiving patterns in high income countries than landlocked countries such as Bolivia, Chad, and Nepal where the land area is further from the coast. Fertile soil is a proxy for population density. Mountains, jungles, and deserts – where there is less fertile land – typically have lower population densities. While these geographic features are not endogenously determined by the time-varying likelihood of democratic transition, there are certainly other causal pathways through which they could influence transitions. However, we directly control for these time-invariant factors, such as geographic position and factor endowments, with country fixed effects. And because we include country fixed effects in all two-stage models, we cannot include coastal land or fertile soil directly as an instrument. That is, we only weight the rich-world remittance trend by coastal population.

To examine whether the excluded instrument influences observed remittances in both party regimes and non-party regimes, we test the first stage equation for each sub-sample. In the group of party regimes, the first stage F-statistic is 16.2; in the sub-sample of other regimes, it is 10.4. This suggests that the excluded instrument strongly correlates with remittances in both sub-samples. That is, the identification strategy is not vulnerable to criticism about heterogeneous treatment effects, at least along the key unit of theoretical interest – namely whether the dictatorship is coded as a party regime.

⁴These countries are: Australia, Austria, Belgium, Canada, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy., Israel, Japan, South Korea, Luxembourg, Netherlands, New Zealand, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, United Kingdom, United States.

When we examine the partial regression plots from the first stage equation where the endogenous interaction term is the dependent variable, we find that Lesotho is an outlier that is not well explained by the excluded instrument. This makes sense because although it is a high-remittance receiving country (Crush et al. 2010, 4), it is landlocked within South Africa and thus the instrument weights the OECD remittance trend by zero under the assumption that ease of migration is low. However, Lesotho is an anomalous landlocked country because ease of migration is not particularly low given its geographic position in Southern Africa. Nearly one-eighth of its population lived in another country in 2006. In the analysis reported in the main text, we drop Lesotho. This does not change the coefficient estimates substantially but (unsurprisingly) decreases the standard error estimates. In the last two columns of Table B-2, we show that the main point estimate of interest remains the same if we assign Lesotho the geographic weight applied to South Africa; and if we include Lesotho with its implausible geographic weight. The F-tests for instrument strength, however, are no longer larger than conventional cut-points.

Table B-1 reports the results from the (two) first stage equations for the model with two endogenous variables (Remit and $Remit \times Party$), reported in the final column of Table 2 in the main text. WRemitDist is positively correlated with each endogenous variable and $WRemitDist \times Party$ is positively correlated with $Remit \times Party$.

Table B-2 reports robustness tests for the two-stage IV model. The specification in (1) contains no control variables, save Party, regime duration polynomials, country-fixed effects, and time period effects. The specification in (2) contains the base controls from the specification reported in the main text, except dropping migration. The next four specifications add more control variables: trade; growth; growth + protest; and growth + protest + aid + oil + kaopoen. The specification in (7) is the base model with year fixed effects instead of time period fixed effects. Point estimates on the main variable of interest are similar, but the F-statistic is smaller because year fixed effects pick up much of the variation in the OECD remittance trend (which only varies by year). The base line specification reported in (8) uses a sample that excludes all observations from the year 1975 because they are potential outliers in the first stage equation. The results in (9) and (10) add Lesotho to the sample, with (9) using S. Africa's geographic weight to construct the excluded instruments and (10) using the original geographic weight for Lesotho (which is zero) to construct the excluded instruments. Again, point estimates for the variable of interest are similar to the result reported in the main text. However, the F-statistic from the first-stage is much smaller than 10, reflecting the presence of the Lesotho outliers in the first stage equations.

Table B-3 reports two-stage models where the dependent variable is *Autocratic transition*, not *Democratic transition*. Again the sample is countries that are autocracies on January 1 of the observation calendar year. The dependent variable captures transitions from one autocratic regime to another, such as the Iranian Revolution of 1979, the ouster of the Mobutu regime in the former Zaire in 1997 by rebel insurgents, and the military coup by a junior officer in Guinea in 2008. The first stage equations for these models are *exactly* the same as those for the models reported

in the main text (Table 2, columns 2 and 3). In the outcome equation, the estimates for Remit, $Remit \times Party$, and $Remit + (Remit \times Party)$ are not different from zero, suggesting that similar to the results for $Autocratic \ transition$ reported in Table A-6, there is no empirical relationship between remittances and autocratic transitions.

Table B-1: First stage results for IV model (Table 2, column 3)

	Remit	Pamit V Party
	пеши	Remit × Party
W Remit Distance	2.122**	1.334**
	(0.47)	(0.46)
W Remit Distance \times Party	0.024	0.806*
	(0.25)	(0.34)
Party regime	-0.153	1.306**
	(0.15)	(0.37)
GDP per capita	0.122	0.034
	(0.35)	(0.31)
Population	-1.507**	-0.751
-	(0.54)	(0.46)
Civil war	-0.041	-0.031
	(0.06)	(0.08)
Neighbor democratization	0.027	-0.004
	(0.03)	(0.02)
Net migration	-0.814	-1.569+
9	(0.83)	(0.85)
(Intercept)	-10.547	-12.516
	(11.74)	(11.66)
P.2	0.050	0.000
\mathbb{R}^2	0.870	0.933

⁺ p<0.10;* p<0.05; ** p<0.01. OLS with clustered standard errors in parentheses. Country fixed effects, regime duration polynomials, and time trend not reported. $T\equiv 1975-2009$. 1464 observations in 83 countries.

Table B-2: Additional 2-stage models

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Remit	0.063	0.076	0.067	0.078	0.066	0.053	0.058	0.064	0.038	0.018
	(0.06)	(0.06)	(0.06)	(0.06)	(0.05)	(0.08)	(0.06)	(0.06)	(0.07)	(0.10)
Remit \times Party	0.089*	0.074+	0.064	0.070 (0.05)	0.082+	0.101	0.075	0.082+	0.114	0.141 (0.13)
Party	(0.04) -0.119	(0.04) -0.104	(0.05) -0.099	(0.05) -0.089	(0.05) -0.107	(0.07) -0.146	(0.05) -0.098	(0.05) -0.107	(0.08) -0.207	-0.260
	(0.08)	(0.08)	(0.07)	(0.09)	(0.09)	(0.12)	(0.09)	(0.09)	(0.19)	(0.29)
GDP per capita		-0.048	-0.031	-0.010	-0.041	-0.019	-0.061	-0.041	-0.027	-0.024
Population		(0.06) -0.057	(0.06) -0.058	(0.06) -0.056	(0.06) -0.034	(0.06) -0.140	(0.06) -0.212	(0.06) -0.040	(0.07) -0.072	(0.07) -0.081
1 optiation		(0.13)	(0.13)	(0.15)	(0.14)	(0.12)	(0.24)	(0.15)	(0.15)	(0.15)
Civiil war		-0.002	-0.008	-0.008	-0.002	0.007	-0.005	-0.002	-0.007	-0.009
37 - 11 1		(0.01)	(0.01)	(0.01)	(0.01)	(0.02)	(0.01)	(0.01)	(0.01)	(0.02)
Neighbor democratization		0.013 (0.01)	0.016 (0.01)	0.013 (0.01)	0.013 (0.01)	0.008 (0.01)	0.021 (0.02)	0.013 (0.01)	0.013 (0.01)	0.014 (0.01)
Net migration		(0.01)	0.048	0.175	0.113	0.206	0.027	0.111	0.150	0.175
<u> </u>			(0.16)	(0.16)	(0.14)	(0.16)	(0.17)	(0.14)	(0.16)	(0.20)
Trade			-0.013							
Economic growth			(0.04)	-0.007**		-0.006*				
Deonomic growth				(0.00)		(0.00)				
Protest				. ,	0.002	0.002				
Aid					(0.01)	(0.01)				
Ald						-0.007 (0.01)				
Oil						0.011				
						(0.01)				
KA open						0.019+				
						(0.01)				
$\beta_{Remit} + \beta_{Remit \times Party}$	0.151+	0.150*	0.130+	0.147*	0.147 +	0.154+	0.132	0.145 +	0.152 +	0.159+
	(0.08)	(0.07)	(0.08)	(0.07)	(0.08)	(0.09)	(0.09)	(0.08)	(0.08)	(0.09)
Countries	9.0	0.4	0.9	0.9	0.9	0.1	0.9	0.9	0.4	0.4
N × T	$86 \\ 1543$	$84 \\ 1506$	$83 \\ 1436$	$83 \\ 1451$	$83 \\ 1461$	$81 \\ 1361$	$83 \\ 1450$	83 1450	$84 \\ 1482$	$84 \\ 1482$
11 // 1	1010	1000	1100	1101	1101	1001	1100	1100	1102	
F-statistic	7.2	6.0	9.6	9.8	12.0	10.2	6.1	8.8	1.1	0.6
Time trend	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
Year FE	N	N	N	N	N	N	Y	N	N	N
Drop 1975	N	N	N	N	N	N	N	Y	N	N
Lesotho w. SA weight	N	N	N	N	N	N	N	N	Y	N
Lesotho w. Les weight	N	N	N	N	N	N	N	N	N	Y

⁺ p<0.10;* p<0.05; ** p<0.01. Two-stage IV with clustered standard errors in parentheses. Country-fixed effects, regime duration polynomials, time trend (or year-effects) not reported. Kleibergen-Paap rk Wald F statistic reported. Stock-Yogo weak ID test critical value (10%) is 7.0. T \equiv 1975-2009.

Table B-3: Remittances and Autocratic transition (2SLS-IV with FE) $\,$

	(1)	(2)
Remit	-0.024	-0.010
	(0.05)	(0.05)
Remit × Party	` ′	-0.032
		(0.06)
arty	-0.010	0.040
	(0.04)	(0.11)
og GDP pc	-0.046+	-0.047+
	(0.03)	(0.03)
opulation	-0.058	-0.068
	(0.11)	(0.12)
ivil war	0.032**	0.031**
	(0.01)	(0.01)
eighbor democratization	0.016	0.016
	(0.01)	(0.01)
et migration	-0.422**	-0.461**
	(0.12)	(0.15)
$Remit + \beta_{Remit \times Party}$		-0.043
		(0.06)

⁺ p<0.10;* p<0.05; *** p<0.01. 2SLS-IV FE with clustered standard errors in parentheses. Country fixed effects, regime duration polynomials, and time trend not reported. T= 1975-2009. 1464 observations in 83 countries.

Appendix C: Incumbent vote share in autocratic elections

The sample contains 83 autocratic elections with non-missing data on worker remittances, 1975-2009. To be included the election must: (1) occur during the lifetime of an autocratic regime; (2) be a multicandidate direct election; and (3) be preceded by a multicandidate direct election under the same regime. The first criterion means that even if an election occurs during the same calendar year in which an autocratic regime ruled, it must take place during its rule. The 2005 presidential election in Kyrgyzstan, for example, took place after the Akayev regime fell. This election is therefore excluded from the sample. Elections in which the incumbents lose may end the regime, however, as was the case in Ghana (2000), Mexico (2000) and Senegal (2000) – but only if there was a prior multicandidate executive election. If the incumbent party loses the first multicandidate election and the regime ends (e.g. Malawi 1994), this election is not included in the sample. The third criterion also means that first multiparty elections (e.g. Kenya 1992 or Tanzania 1995) are not included in the sample because their is no prior election result to use as a comparison for calculating the change in incumbent vote share. The direct election criterion means that an indirect election (e.g. Guatemala's legislature elected a new president after the constitutional crisis in 1993) is not considered part of the sample or as a prior election result.⁵ Table C-1 contains information on all the elections in the sample, including the year of the election, the election result, the year of the prior election and the vote outcome from the prior election. The data sources are: African Elections Database (2012), Center on Democratic Performance (2012), Election Watch (2009), Furlong (1992), Hersch (1986), Nohlen et al. (2002, 2005), Princeton's Iran Data Portal, Radnitz (2006), and Sekelj (2000).

Table C-2 reports robustness tests for the incumbent vote share models. The first four columns report results from error-correction models (ECM), using a different lag for each specification (1-4). The reported estimates are the long-run multiplier calculated using a Bewley transformation. Elections are not evenly spaced in all countries and the ECM framework assuming a common lag structure for all units (countries). Therefore we tested ECMs for multiple lags. The next three columns reported additional tests. The model in (5) contains no control variables, except *Party* and *Prior vote*. In (6), the sample excluded one observations flagged as a multivariate Hadi outlier. Finally, a robust regression is reported in (7). The coefficient estimates in (7) are *not* comparable to estimates in (5) and (6) because the dependent variable has not been logit transformed to account for bounded nature of incumbent vote share data.

⁵Serbia is a particularly difficult case to code. Direct executive elections for Serbia were held in 1990, 1992, and 1997 (and 2002, after the regime falls in 2000). Milošević won the Serbian elections in 1990 and 1992 and his party's candidate won in 1997 (first and last round, though there were different candidates). The Federal Republic of Yugoslavia (FRY) is parliamentary but also has a President, who was selected by legislature in 1992 (Cosić) and 1997 (Milošević). In 2000, the FRY had its first direct Presidential election, which Milošević lost. This event, and the uprisings in its aftermath, ended the regime. We have remittance data for 1992, 1997, and 2000 but can only compare the 1992 and 1997 Serbian Presidential elections as equivalent contests.

Table C-1: Incumbent vote share sample

Country Year Vote Prior Vote Country Year Vote Prior Vote Algeria 1999 73.8 61.0 (1995) Kyrgyzstan 2009 76.1 89.5 (2005) Algeria 2004 85.0 73.8 (1999) Madagascar 1998 63.0 80.2 (1982) Algeria 2009 90.2 85.0 (2004) Madagascar 1992 29.2 63.0 (1989) Armenia 2003 49.5 38.5 (1998) Mauritania 1997 90.9 62.9 (1992) Armenia 2003 49.5 38.5 (1998) Mauritania 1997 90.9 69.9 (1997) Armenia 2008 82.8 49.5 (2003) Mexico 1982 74.4 94.4 (1976) Azerbaijan 2003 76.8 77.6 (1998) Mexico 1994 48.8 50.7 (1988) Azerbaijan 2003 88.7 76.8 (2003) Mexico 2004 48.8 50.7 (1988) Azerbaijan 2001 77.4								
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() (Kenya	1997	40.1	36.3 (1992)	Uganda	2001	69.3	74.3 (1996)
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	Kyrgyzstan	2000	74.5	71.6 (1995)				

 $^{^*\}equiv$ Iranian incumbent coded according to faction of the incumbent president (e.g. Rafsanjani's Combatant Clergy and Khatami's Association of Clerics, Reform).

Table C-2: Remittances and incumbent vote share								
	Lon	g-run multi	pliers from	ECM	No control	Exclude Hadi	Robust	
	$lag \overline{1}$	lag 2	lag 3	lag 4	variables	outlier	regression	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
LRM coefficients								
Remit	-0.030	-0.018	-0.020	-0.027				
	(0.05)	(0.06)	(0.06)	(0.06)				
Remit \times Party	-0.157+	-0.197+	-0.174+	-0.172+				
	(0.09)	(0.10)	(0.09)	(0.10)				
Party	0.346	0.000	0.000	0.000				
	(0.26)	(0.00)	(0.00)	(0.00)				
Growth	0.021*	0.014	0.018	0.015				
	(0.01)	(0.01)	(0.01)	(0.01)				
					,	Levels coefficients		
Remit					0.003	-0.022	0.008	
Remit					(0.09)	(0.10)	(0.008)	
Remit \times Party					-0.381**	-0.357**	-0.092**	
itemit × 1 arty					(0.11)	(0.11)	(0.032)	
Party regime					0.831**	0.749*	0.227*	
Tarty regime					(0.32)	(0.30)	(0.09)	
Growth					(0.02)	0.031	0.009*	
Glowth						(0.02)	(0.00)	
Prior vote					2.220**	2.421**	0.659**	
11101 1000					(0.70)	(0.66)	(0.10)	
(Intercept)	0.596**	0.627**	0.615**	0.657**	-0.883	-1.039+	0.142+	
(Intercept)	(0.17)	(0.17)	(0.16)	(0.16)	(0.62)	(0.59)	(0.08)	
	(0.11)	(0.11)	(0.10)	(0.10)	(0.02)	(0.00)	(0.00)	
$\beta_{Remit} + \beta_{Remit \times Party}$	-0.187*	-0.215**	-0.194**	-0.200**	-0.379**	-0.379**	-0.084*	
Filemii Filemii x Fariy	(0.07)	(0.08)	(0.07)	(0.07)	(0.06)	(0.06)	(0.03)	
	(/	(/	(/	(/	()	()	()	

⁺ p<0.10;* p<0.05; ** p<0.01. Dependent variable is the change in incumbent vote share from the last election. Unit of observation is an election year. Constant not reported. First four columns only report the long-run multiplier from a Bewley transformation of the error-correction specification (De Boef and Keele, 2008). Each column reports a different time lag for calculating the difference and lag explanatory variables. The lagged DV is fixed at the level of incumbent vote share in the prior election. Explanatory variables in columns (5) to (7) are levels. Coefficient in (7) is *not* comparable to estimates in (5) and (6) because the dependent variable has not been logit transformed to account for bounded nature of incumbent vote share data. Years: 1975-2009.

 $N \times T$

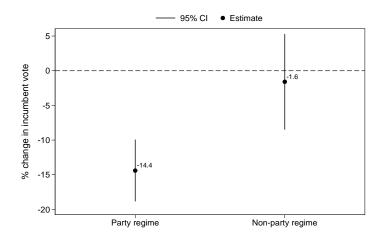


Figure C-1: Marginal effect of remittances on incumbent vote share. Estimates obtained from model reported in column 2, Table 3 (main text). The marginal effect is calculated for a one standard deviation increase in remittances (1.54 log units).

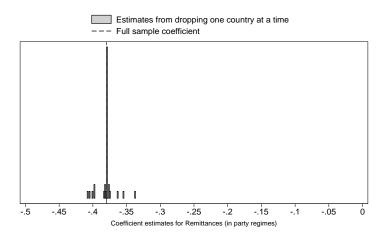


Figure C-2: Coefficients for Remittances (party regimes only). The vertical bars show the estimated coefficients for remittances in party regimes when we exclude one regime at a time from the sample. The verticle dotted line shows the coefficient estimate for the sample that includes all party regimes.

Appendix D: Remittances and protest

In this Appendix, we examine the statistical correlation between remittances and anti-regime protest in autocratic regimes from 1975-2009. We use two sources to measure the dependent variable, anti-regime dissent. The first is a count of the number of anti-regime protests and riots from the Banks Cross-National Times Series Data. There is no publicly available codebook which lists the events recorded in this data set and thus we cannot verify the dates of the events. This means that some of the events that occur during transition years may occur after (and thus as a consequence of) the regime transition event. Further, the stated source of information for this data is the print edition of the *New York Times*, which means that events which occur during times of breaking news in the U.S. may be less likely to appear in the data.

The second data set we use is the Social Conflict in Africa Dataset (SCAD), which documents organized and spontaneous riots and demonstrations against the government from news wire sources. These data contain the start and end dates of the protest event so we can exclude protest events that occur during the same calendar year as the regime transition but after the regime collapse event. Further, this data set records the target and the issue of the mobilization event so we can exclude events that are 'pro-government' as well as events where the target was not the government. This data set only covers the post-1989 period in Africa, including North African countries.

We employ a negative binomial regression model because the protest variables are count data; we test a fixed effects estimator by including dummy variables for each unit (Allison and Waterman 2002).⁶ In the baseline specification, we include year fixed effects, the log of regime duration, and indicator variable for *Party* dictatorship. In the control variable specification, we add *Urbanization*, *Growth*, *Population*, *Civil war*, and *Military size*.⁷

The evidence from these models generally suggests that remittances are associated with a higher incidence of protest, and that the statistical relationship, particularly using SCAD, is larger in party regimes. There is little evidence from these models consistent with the contention that remittances ease dissatisfaction with the regime. This finding linking remittances and protest in party regimes, while positive, is not robust to all specifications – particularly when using SCAD. Nonetheless, the positive association is consistent with our interpretation of the main result in the paper that remittances increase the risk of democratic transition in party regimes and that they lower the incumbent vote share.

Anti-regime protest and electoral rejection of the incumbent may be intertwined in party regimes and constitute two forms of dissent. For example, while Kenya transitioned in 2002 after the electoral defeat of the ruling KANU, protests surged during earlier election years. Klopp and Zuern (2007, 132), for instance, note that "in Kenya in 1997 the National Convention Executive Council (NCEC), an umbrella organization of church groups, human rights associations, and opposition politicians, organized a mass action campaign to force reforms and level the playing field before the next election." A more level electoral playing field likely contributed to KANU's defeat in the 2002

⁶This is not the canned FE negative binomial estimator in Stata, which fixes the dispersion parameter for each unit.

⁷Urbanization is the two-year differenced variable, from the WDI (2010). Military size is the log of the number of military personnel from the Correlates of War project. See Albertus and Menaldo (2012) for evidence that military size lowers the risk of anti-regime collective action and democratic transition, and Svolik (2011) for an informal treatment of why autocratic militaries (as opposed to security services) may deter anti-regime protest.

election. Indeed, the Banks data record 15 protest events in Kenya in 1997, while SCAD records 10 mobilizations targeting the government.

Mass anti-regime protests also helped oust Suharto in 1998 and precipitated the electoral defeat of Golkar the following year. Even prior to the financial crisis, the leading opposition party, the Democratic Party of Indonesia (PDI), mobilized against the Suharto regime. In 1996 when Suharto attempted to replace the PDI leader (Megawati) with a regime loyalist, PDI supporters protested for three weeks in July 1996. The protests prompted regime reprisal and escalated into a fatal conflict between regime opponents and the police (Liddle and Mallarangeng 1997, 170). This example illustrates that in party regimes, the opposition may not only help mobilize citizens to vote against the regime but may also lead anti-regime protests as a precursor to incumbent electoral defeat. Megawati and the PDI won the June 1999 elections, gaining 34 percent of the vote to Golkar's 22 percent.

Finally, we note that we do not have data to test the mechanisms by which remittances increase protest, such as: lowering barriers to contentious collective action; or diaspora politics financing opposition civil society groups and opposition parties. Further, we have not addressed endogeneity issues in these models. Therefore these results should be interpreted as preliminary, suggestive evidence and not as a final test.

Table D-1: Remittances and anti-regime protest

Protest Data	Banks (1-4)				SCAD (5-8)			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Remit	0.239* (0.10)	0.183 (0.11)	0.407** (0.11)	0.401** (0.12)	0.070 (0.11)	0.046 (0.11)	0.072 (0.11)	0.026 (0.12)
Remit \times Party	(= =)	0.152 (0.15)	(-)	0.015 (0.17)	(-)	0.133 (0.20)	(-)	0.221 (0.21)
Party regime	0.294 (0.34)	-0.010 (0.45)	-0.078 (0.38)	-0.107 (0.50)	-0.117 (0.32)	-0.357 (0.48)	-0.517 (0.34)	-0.906+ (0.49)
$\beta_{Remit} + \beta_{Remit \times Party}$		0.335* (0.14)		0.416** (0.15)		0.179 (0.20)		0.248 (0.20)
	No FE 1585	No FE 1585	Yes FE 1435	Yes FE 1435	No FE 514	No FE 514	Yes FE 477	Yes FE 477

+ p<0.10;* p<0.05; ** p<0.01. Dependent variable is the count of anti-regime protests and riots. Negative binomial regression unit FE. Constant, regime duration time, calendar time in all models but not reported. Additional control variables in (3), (4), (7) and (8): GDP per capita, population, civil war, economic growth, urbanization, and military personnel. $T \equiv 1975-2009$.

Appendix E: Remittances and tax revenue in autocracies

In this section, we examine the statistical correlation between remittances and tax revenue in autocracies between 1975 and 2008 for which there is non-missing data. The main explanatory variable of interest is remittances per capita (logged, lagged) and the dependent variable is the constant dollar value of logged tax revenue. We use this dependent variable instead of $\frac{TaxRevenue}{GDP}$ so we can purge the revenue measure of information on changes in GDP. If a negative economic shock occurs, GDP decreases causing $\frac{TaxRevenue}{GDP}$ to increase by reducing the denominator. Because remittances likely follow a countercyclical pattern, their flow increases when the recipient country is undergoing an economic downturn. This means that during economic crises, the measure of remittances increases while the GDP denominator in $\frac{TaxRevenue}{GDP}$ decreases. As a result, one might observe a spurious (positive) correlation between tax revenue and remittances when examining the correlation between $\frac{TaxRevenue}{GDP}$ and remittances – one driven entirely by changes in the denominator of $\frac{TaxRevenue}{GDP}$.

We include the following control variables: GDP pc (log), Trade (%GDP), capital openness, and the Polity score. Further, we condition the estimates on country- and year-fixed effects to control for unmodeled spatial and time heterogeneity. Finally, we test an error-correction model and report the long-run multiplier (LRM) calculated via a Bewely transformation.

	• 1 1	1 1
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Table Det. D	tennitantes ai	nd tax revenue

	(1)	(2)	Exclude China (3)	(4)	Exclude China (5)
Remittances pc (log)	0.175	0.156	0.034	0.168	-0.003
- (-)	(0.11)	(0.10)	(0.05)	(0.14)	(0.07)
GDP pc (log)	, ,	0.000	0.000*	0.000	0.000+
- (),		(0.00)	(0.00)	(0.00)	(0.00)
Trade (%GDP)		, ,	` ,	0.001	0.001
,				(0.00)	(0.00)
Capital openness				$0.05\dot{5}$	0.016
				(0.06)	(0.04)
Polity score				-0.006	0.008
				(0.02)	(0.02)
Constant	29.253**	28.764**	28.893**	28.484**	28.798**
	(0.22)	(0.33)	(0.21)	(0.69)	(0.44)
\mathbb{R}^2	0.943	0.949	0.980	0.941	0.979
Observations	310	310	294	284	268
Countries	46	46	45	45	44

Long-run multiplier reported, calculated via a Bewely transformation. Clustered standard errors in parantheses. Country and year fixed-effects included but not reported.

The first column of Table E-1 reports the LRM for a model with no control variables (save the country- and year-fixed effects). There is a positive estimate for remittances but it is not stastically different from zero. The second column adds GDP per capita as a control variable, with similar results. The third column re-estimates this model but drops observations from China because visual

inspection of the partial regression plot shows that it may be an outlier. Dropping China from the sample, the estimate for remittances, while positive, approaches zero. Next we add all the control variables in the preferred specification in Singer's (2012) analysi: trade, capital openness and the Polity score. In column four the positive estimate for remittances is again not statistically different from zero, while dropping China from the sample again drives the estimate close to zero.

This analysis focuses only on autocracies and thus tests a fraction of the sample in Singer's analysis. We therefore cannot take the largely null findings as evidence that remittances do not influence tax revenue in a larger sample that includes democracies. However, these findings do not provide strong evidence that remittances increase tax revenue for autocratic governments. Finally, we urge caution in interpreting these results broadly because the sample size is generally less than 300 country-year observations, roughly 20% of the sample size used in the tests of remittances and democratic transition.

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