CEBRIG Working Paper





Online appendix to "A time to throw stones, a time to reap: How long does it take for democratic transitions to improve institutional outcomes?"

Pierre-Guillaume Méon, Khalid Sekkat

In this online appendix, we provide extra evidence complementing our paper "A time to throw stones, a time to reap: How long does it take for democratic transitions to improve institutional outcomes?" accepted for publication in the Journal of Institutional Economics. First, we provide additional information on the dataset and the sample. Second, we discuss four democratic transitions that illustrate our main finding: Bangladesh in 1991, Senegal in 2000, Hungary in 1990, and Nicaragua in 1990. Third, we report a series of robustness checks: a nonparametric test, using alternative definitions of transitions, using an alternative set of control variables, dropping former socialist countries, including region-specific effects, distinguishing types of transitions, conditioning the effect of democratic transitions on GDP per capita, education, and whether the transfer of power was regular or not.

Keywords Democratization; democratic transitions; institutions; governance; political risk.

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Online appendix to "A time to throw stones, a time to reap:

How long does it take for democratic transitions to improve institutional

outcomes?"

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Abstract: In this online appendix, we provide extra evidence complementing our paper "A time to throw stones, a time to reap: How long does it take for democratic transitions to improve institutional outcomes?" accepted for publication in the *Journal of Institutional Economics*. First, we provide additional information on the dataset and the sample. Second, we discuss four democratic transitions that illustrate our main finding: Bangladesh in 1991, Senegal in 2000, Hungary in 1990, and Nicaragua in 1990. Third, we report a series of robustness checks: a non-parametric test, using alternative definitions of transitions, using an alternative set of control variables, dropping former socialist countries, including region-specific effects, distinguishing types of transitions, conditioning the effect of democratic transitions on GDP per capita, education, and whether the transfer of power was regular or not.

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A1. ADDITIONAL INFORMATION ON THE DATA

Descriptive statistics

Table A1: Descriptive statistics

| | Mean | Std. deviation | Minimum | Maximum |
|--------------------------|-----------|----------------|---------|------------|
| ICRG ₁₁ | 62.18 | 13.68 | 13.25 | 90.08 |
| Principal component | 60.16 | 20.04 | -7.28 | 101.84 |
| Bureaucracy quality | 2.317 | 1.188 | 0.000 | 4.000 |
| Corruption | 3.130 | 1.385 | 0.000 | 6.167 |
| Ethnic tensions | 4.064 | 1.414 | 0.000 | 6.000 |
| External conflict | 9.943 | 1.910 | 0.000 | 12.000 |
| Government stability | 7.807 | 2.017 | 1.000 | 12.000 |
| Internal conflict | 9.089 | 2.374 | 0.000 | 12.000 |
| Investment profile | 7.575 | 2.474 | 0.000 | 12.000 |
| Law and order | 3.823 | 1.466 | 0.000 | 6.000 |
| Military in politics | 3.953 | 1.776 | 0.000 | 6.167 |
| Religious tensions | 4.639 | 1.358 | 0.000 | 6.000 |
| Socioeconomic conditions | 5.841 | 2.270 | 0.000 | 11.000 |
| GDP per capita | 14295.627 | 18610.650 | 200.631 | 111968.352 |
| Openness | 38.602 | 26.505 | 0.011 | 218.663 |
| Secondary enrolment | 20.215 | 13.432 | 0.030 | 69.750 |
| Government size | 15.466 | 5.479 | 2.047 | 43.479 |

Table A2: Transition dummy variables

| Variable | Number |
|----------|--------|
| D^1 | 77 |
| D^2 | 93 |
| D^3 | 114 |
| D^4 | 125 |
| D^5 | 736 |
| A | 82 |

Principal component analysis of the sub-indices of the $icrg_{11}$ index

Table A3: Principal components analysis: Factor loadings of the eleven sub-indices of the ICRG index

| | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 |
|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bureaucracy quality | 0.798 | 0.356 | 0.211 | 0.030 | 0.073 | 0.057 | 0.027 | 0.161 | 0.381 | 0.069 | 0.073 |
| Corruption | 0.690 | 0.517 | -0.075 | -0.138 | 0.082 | 0.336 | 0.170 | 0.111 | -0.216 | -0.123 | 0.098 |
| Ethnic tensions | 0.635 | -0.229 | -0.388 | -0.468 | -0.178 | -0.291 | 0.101 | 0.217 | 0.018 | -0.032 | -0.017 |
| External conflict | 0.644 | -0.298 | -0.264 | 0.301 | 0.517 | -0.083 | 0.215 | 0.054 | -0.017 | 0.001 | -0.111 |
| Government stability | 0.478 | -0.677 | 0.337 | -0.141 | -0.057 | 0.365 | 0.022 | 0.090 | -0.039 | 0.182 | -0.021 |
| Internal conflict | 0.833 | -0.238 | -0.183 | -0.056 | 0.138 | -0.059 | -0.146 | -0.261 | -0.002 | 0.013 | 0.317 |
| Investment profile | 0.678 | -0.278 | 0.494 | 0.243 | -0.203 | -0.133 | 0.029 | 0.060 | -0.023 | -0.309 | 0.036 |
| Law and order | 0.847 | 0.079 | 0.019 | -0.259 | 0.071 | 0.116 | -0.139 | -0.282 | 0.077 | -0.131 | -0.260 |
| Military in politics | 0.816 | 0.191 | 0.007 | 0.154 | 0.028 | -0.112 | -0.419 | 0.208 | -0.159 | 0.111 | -0.066 |
| Religious tensions | 0.540 | -0.042 | -0.574 | 0.361 | -0.448 | 0.191 | 0.039 | -0.056 | 0.057 | 0.025 | -0.037 |
| Socioeconomic conditions | 0.748 | 0.277 | 0.328 | 0.030 | -0.169 | -0.247 | 0.252 | -0.193 | -0.115 | 0.225 | -0.038 |
| Cumulative R-Squared | 0.504 | 0.618 | 0.718 | 0.775 | 0.831 | 0.875 | 0.908 | 0.938 | 0.960 | 0.981 | 1.000 |

List of countries and transitions in the dataset

Table A4: Democratic and autocratic transitions

| Country | Year of switch to | Year of switch to | Country | Year of switch to | Year of switch to | Country | Year of switch to | Year of switch to |
|----------------------|----------------------|-------------------|------------------|-------------------------|-------------------|----------------------|----------------------|-------------------|
| | democracy | autocracy | | democracy | autocracy | | democracy | autocracy |
| Albania | 1992 | None | Greece | None | None | Niger | None | None |
| Algeria | None | None | Guatemala | 1996 | None | Nigeria | 1999 | None |
| Angola | None | None | Guinea | None | None | Norway | None | None |
| Argentina | None | None | Guinea-Bissau | 2005 | None | Oman | None | None |
| Armenia | None | None | Guyana | 1992 | None | Panama | 1994 ^F | None |
| Australia | None | None | Haiti | None | None | Papua New Guinea | None | None |
| Austria | None | None | Honduras | None | None | Paraguay | 1993 | None |
| Azerbaijan | None | None | Hungary | 1990 ^F | None | Philippines | 1987 ^F | None |
| Bahamas | None | None | Iceland | None | None | Poland | 1990 | None |
| Bahrain | None | None | Indonesia | 1999; 2005 ^F | None | Portugal | None | None |
| Bangladesh | 1991 | None | Iran | None | None | Qatar | None | None |
| Belarus | None | None | Iraq | None | None | Romania | 1990 | None |
| Belgium | None | None | Ireland | None | None | Russia | 1993 | None |
| Bolivia | None | None | Israel | None | None | Saudi Arabia | None | None |
| Botswana | None | None | Italy | None | None | Senegal | 2000 | None |
| Brazil | 1985 | None | Jamaica | None | None | Serbia | 2000 | None |
| Brunei | None | None | Japan | None | None | Sierra Leone | None | None |
| Bulgaria | 1991 ^F | None | Jordan | 2016 | None | Singapore | None | None |
| Burkina Faso | None | None | Kazakhstan | None | None | Slovakia | 1993 | None |
| Cameroon | None | None | Kenya | None | None | Slovenia | 1992 ^F | None |
| Canada | None | None | Korea | 1988 | None | Somalia | None | None |
| Chile | 1990 ^F | None | Korea, Dem. Rep. | None | None | South Africa | 1994 ^F | None |
| China P.R.: Mainland | None | None | Kuwait | None | None | Spain | None | None |
| China P.R.:Hong Kong | None | None | Latvia | None | None | Sudan | None | None |
| Colombia | None | None | Lebanon | 2005 | None | Suriname | 1991 | None |
| Congo, Dem. Rep. Of | None | None | Liberia | 2006 | None | Sweden | None | None |
| Costa Rica | None | None | Libya | None | None | Switzerland | None | None |
| Côte d'Ivoire | None | None | Lithuania | 1993 ^F | None | Syria | None | None |
| Croatia | 2000 F | None | Luxembourg | None | None | Taiwan | None | None |
| Cuba | None | None | Madagascar | 1993 | None | Tanzania | 1995 | None |
| Cyprus | None | None | Malawi | 1994 | None | Thailand | 1992; 2008 | None |
| Czech Rep. | 1993 ^F | None | Malaysia | None | None | Togo | None | None |
| Denmark | None | None | Mali | 1992 | None | Trinidad-Tobago | None | None |
| Dom. Rep. | None | None | Malta | None | None | Tunisia | 2014 | None |
| Ecuador | None | None | Mexico | 1997 | None | Uganda | None | None |
| Egypt | None | None | Moldova | None | None | Ukraine | 2005 | None |
| El Salvador | 1994 | None | Mongolia | 1992 ^F | None | United Arab Emirates | None | None |
| Estonia | None | None | Montenegro | None | None | United Kingdom | None | None |
| Ethiopia | 1995 | None | Morocco | None | None | United States | None | None |
| Finland | None | None | Mozambique | 1994 | None | Uruguay | 1985 ^F | None |
| France | None | None | Myanmar | 2016 | None | Venezuela | 2013 | None |
| Gabon | None | None | Namibia | None | None | Vietnam | None | None |
| Gambia | None | 1994 | Netherlands | None | None | Yemen, Republic Of | None | None |
| Germany | None | None | New Zealand | None | None | Zambia | 1991 | None |
| Ghana | 1996 | None | Nicaragua | 1990 | None | Zimbabwe | None | None |

F: Full transition.

A2. ILLUSTRATIVE EXAMPLES

In this section, we illustrate our findings using four democratic transitions that took place in Asia, Africa, Europe, and Latin America. Specifically, we briefly discuss the transitions of Bangladesh, Senegal, Hungary, and Nicaragua. Figures A1a to A1d are constructed in a similar way to Figure 2. We display country *i*'s ICRG₁₁ scores five, four, etc. years before the transition, at the transition year and one, two, etc. years after the transition, and normalize the index by subtracting from the country's 14 numbers the ICRG₁₁ corresponding to its transition year.

Bangladesh (1991)

Bangladesh had been ruled by President Hossain Mohammed Ershad since a 1982 military coup. In October 1990 student protests evolved into mass protests culminating in a march on Dhaka on December 4 that led to Ershad's resignation and free elections in February 1991. The election was won by the Bangladesh Nationalist Party, led by Khaleda Zia, who became prime minister. Between the 1991 transition and 1999, Bangladesh remained a parliamentary democracy. Elections were held again in 1996, resulting in the Bangladesh Nationalist Party being defeated by the Awami League, headed by Sheikh Hasina. The two parties have since alternated in power, with a hiatus between January 2007 and December 2008 when the military imposed a caretaker government to combat corruption.²

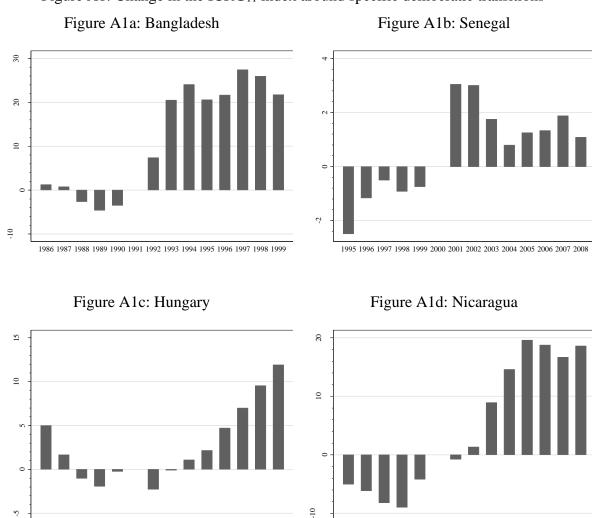
In Figure A1a, while the country's normalized ICRG₁₁ index shows no specific pattern before 1991 (the transition year) it exhibits a marked improvement after 1991. During the five years preceding the transition year, the normalized index oscillated between 1.25 points above

¹ Hussain Muhammad Ershad later served time in prison for corruption, before returning to parliament.

² For a more detailed narrative of the transition in Bangladesh, the interested reader may refer to van Schendel (2009).

and 4.58 points below the value of the transition year. A year after the transition, in 1992, the index had increased by 7.42 points with respect to its 1991 value. It then fluctuated between 20.58 and 27.42 points above its value in 1991. Although it slightly decreased after 1997, the index remained 21.75 points above its value before the transition. Before the transition Bangladesh belonged to the first decile of the ICRG₁₁ distribution in our sample. At the end of the transition period, it fluctuated between the fourth and fifth deciles.

Figure A1: Change in the ICRG₁₁ index around specific democratic transitions



1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998

1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998

Senegal (2000)

Senegal experienced a peaceful transition in 2000, when Abdoulaye Wade won the presidential election against former president Abdou Diouf, ending uninterrupted control of the government by the Socialist Party since independence. Single-party dominance was facilitated by constraints on the number of political parties until 1981, and advantages in terms of access to state resources and the media granted to the incumbent by the electoral code until 1991. For these reasons, Huntington (1991) deemed Senegal a "semi-democracy". Despite moves by Abdoulaye Wade to consolidate power, such as reinstating the Senate or amending the constitution to run for another term in office, Senegal did not revert to a single-party system, and Macky Sall defeated Abdoulaye Wade in the 2012 presidential election.³

Figure A1b shows that, before the democratic transition of 2000, the index fluctuated between 2.5 points and 0.5 points below its 2000 value. In the year following the transition, the index increased by three points for a couple of years before decreasing and stabilizing at around one and a half points above its transition year value for the rest of the period.

Hungary (1990)

The transition in Hungary was part of the wave that swept over the socialist block in the late 1980s and early 1990s. It started in May 1988, when János Kádár, General Secretary of the Communist Party since 1956, retired and was replaced by former Prime Minister Karoly Grosz, a moderate reformer. His prime minister was Miklós Németh, a more radical reformer. Although parliament passed a "democracy package" granting concessions such as trade union pluralism and freedom of association, the true transition occurred when on 15 March, the anniversary of the 1948 Revolution, mass demonstrations organized by the opposition gathered over 100,000 participants while official commemorations could not attract more than 20,000. The demonstrations prompted the regime to start talks with the opposition. These talks led to

³ Fowler (2015) provides an overview and a discussion of the transition in Senegal.

an agreement on a constitutional reform that was eventually passed by parliament between 16 and 20 October 1989. Free parliamentary elections were held on March 24 1990. They resulted in a three-party coalition government led by Prime Minister József Antall that implemented legal and economic reforms. The amendment to the preamble of the constitution is indicative of the direction of reforms in Hungary. The preamble to the new constitution adopted in October 1989 declared that "the Hungarian Republic is an independent, democratic state *based on the rule of law*, in which the values of bourgeois democracy and democratic socialism are equally recognized", which was a first step away from socialism. It was revised after the 1990 election to simply define the Hungarian Republic as "an independent democratic state *based on the rule of law*" (cited by Cartledge, 2011, the emphasis is by the authors).

In 1985, Mikhail Gorbachov was appointed General Secretary of the Communist Party of the Soviet Union. For some time after this appointment a general uncertainty surrounded socialist countries. This uncertainty likely explains why the ICRG₁₁ index decreased from 5 points above to 1.92 points below the transition year value between 1985 and 1988, as Figure A1c. In the year following the 1990 transition, the index declined slightly. However, starting from the second year after the transition the index increased steadily until 1998. It ended up 1.92 points above its value in the transition year, on a par with Western democracies.

Nicaragua (1990)

Nicaragua experienced a partial democratization in 1990 when the first free and fair elections after the Somosa dictatorship and the Sandinistas revolution were held.⁵ The civil war waged between the left-wing Sandinista National Liberation Front, which officially held the government, and Contras, a coalition of rebel groups, had ended the year before. The election was held on February 25, 1990. Incumbent President Daniel Ortega was defeated by Violeta

⁴ Cartledge (2011) provides a description of Hungary's transition and its aftermath.

⁵ Close (1999) carefully describes the Nicaraguan transition and the years that followed.

Chamorro, who was leading a 14-party anti-Sandinista coalition, the National Opposition Union. The Sandinista National Liberation Front accepted its defeat, although polls had predicted a comfortable victory.

While outbreaks of violence still occurred in the early years following the transition, Nicaragua gradually became safer. Firstly, a series of amendments to the constitution was adopted on 15 June 1995, following a constitutional crisis, resulting in more checks on the executive and better protection of property rights. Secondly, the issue raised by the claims of owners expropriated during the Sandinista decade, which was highly conflictual in the early years of the transition and complicated by the vague land titles awarded by the Sandinista government, was settled by the Property Stability Law of November 1995.

Figure A1d shows that in the five years preceding 1990 (the transition year), Nicaragua's ICRG₁₁ index fluctuated between 4.17 and 9 points below its value in the transition year. After decreasing by 0.75 points in the following year, it then started increasing and plateaued at around 18 points above its transition year value by the end of the period. As a result, Nicaragua moved from the first to the fifth decile of the distribution of the ICRG₁₁ index over the transition period.

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⁶ In particular, Article 44 of the constitution was revised to guarantee the right of "private property" instead of "personal property". In addition, the reformed article, while still allowing expropriation with due compensation, prohibited outright expropriation. The same reform of the constitution restrained the power of the army, by making it a professional force, banning conscription and forced recruitment, and even changing its name from "Sandinista Popular Army" to "Nicaraguan Army".

A3. ROBUSTNESS CHECKS AND EXTENSIONS

A non-parametric test

We test whether the ICRG₁₁ index in a given year around the transition is statistically different from its value in the year of the transition. To do so, we compute the difference between the value of the index in each year around the transition and in the transition year and perform a series of 13 paired t-tests that are reported in Table A5 below.

Table A5: Comparison of the $ICRG_{11}$ index around transitions with the $ICRG_{11}$ index in the transition year (paired t-tests)

| | T-5 | T-4 | T-3 | T-2 | T-1 | T | T+1 | T+2 | T+3 | T+4 | T+5 | T+6 | T+7 | T+8 |
|------|-------|-------|-------|-------|-------|----|------|------|------|------|------|------|------|------|
| Mean | -0.23 | -0.29 | -0.50 | -0.18 | 91 | 0 | 1.6 | 1.81 | 2.59 | 3.46 | 3.71 | 2.92 | 3.03 | 2.92 |
| Obs. | 42 | 44 | 45 | 45 | 49 | 49 | 49 | 48 | 48 | 46 | 45 | 44 | 44 | 44 |
| t | -0.15 | -0.19 | -0.36 | -0.18 | -1.90 | | 3.20 | 2.91 | 3.26 | 3.91 | 4.07 | 2.63 | 2.7 | 2.71 |
| | | | | | * | | *** | *** | *** | *** | *** | ** | *** | *** |

Tests are performed on the average ICRG₁₁ index minus the world average. T is the transition year.

The results reported in Table A5 closely follow those of Figure 2. We thus observe that the ICRG $_{11}$ index in the five years preceding democratic transitions does not significantly differ from its value in the transition year at standard levels of confidence. The year immediately preceding the transition is an exception, as the difference with the transition year is significant at the ten-percent level. This is because the index jumps in the transition year, increasing on average by 0.91 points with respect to the previous year.

The index is larger in the first year after the transition than in the year of the transition and the difference keeps on increasing in the following years. The difference between the index in the transition year and in the following years is moreover always statistically significant beyond the five-percent level.

The null hypothesis is that the mean difference is equal to zero. *** significant at 1%, ** significant at 5%, * significant at 10%

Alternative definitions of transitions

First, we consider that a transition occurred in year *t* if the PolityIV index moved from a negative value in the previous year to a positive value in year *t* and no backward transition occurred in the following five years. Second, we consider that a transition occurred in year *t* if a country's Freedom House status moved from "not free" to "free" or "partly free" or from "partly free". Third, we also directly use the classification of democratic transitions by Acemoglu et al. (2019), which refines Papaioannou and Siourounis's (2008) classification by aggregating more data sources and by including transitions that do not meet the five-year stability condition. The results obtained with these alternative definitions of transitions are reported in Table A6.

Table A6: Impact of democratic transitions on overall institutional quality: Alternative definitions of democratic transitions. Dependent variable: $ICRG_{11\ t} - ICRG_{11\ t-1}$

| Definition of transitions | PolityIV | Freedom House | Acemoglu et al. (2019) |
|---------------------------|------------|---------------|------------------------|
| | (A6.1) | (A6.2) | (A6.4) |
| $ICRG_{11\ t-1}$ | -0.164 | -0.163 | -0.164 |
| | (14.39)*** | (14.68)*** | (14.32)*** |
| D^1 | -0.483 | 0.040 | -0.554 |
| | (1.76)* | (0.16) | (1.76)* |
| D^2 | -0.099 | 0.216 | -0.275 |
| | (0.28) | (0.67) | (0.71) |
| D^3 | 0.7 | 0.582 | 0.817 |
| | (2.34)*** | (2.35)*** | (2.68)*** |
| D^4 | 0.238 | 0.281 | 0.356 |
| | (0.99) | (1.35) | (1.25) |
| D^5 | 0.067 | 0.459 | 0.083 |
| | (0.25) | (1.84*) | (0.31) |
| A | -1.35 | -0.701 | -0.296 |
| | (1.94*) | (2.81)*** | (0.64) |
| Number of observations | 3566 | 3566 | 3566 |
| Number of Countries | 135 | 135 | 135 |
| Adjusted R-squared | 0.183 | 0.182 | 0.183 |
| F (zero slopes), P-value | 0.00 | 0.00 | 0.00 |

All regressions include country and time fixed effects Standard errors are heteroskedastic-consistent and clustered by country and year. *** significant at 1%, ** significant at 5%, * significant at 10%

The three regressions confirm that democratic transitions improve institutional outcomes during the first three years following the transition. Specifically, D^3 is positive and significant at the ten-percent level or beyond, while D^4 and D^5 are insignificant. Our findings are therefore not specific to any particular definition of democratic transitions.

Alternative codings of transitions

First, to impose less structure on the estimated relationship, we estimated a specification with a single dummy variable capturing the transition. This variable, D^{Total} , is set to one in all years following the transition, and is simply the sum of D^3 , D^4 , and D^5 . The coefficient of that dummy variable may be used to compare the change in institutional quality after the transition with its change before the transition. This type of coding is used for instance by Acemoglu et al. (2019). Second, to avoid pooling years that may be different, we also defined one dummy variable for each year, ranging from five years before the transition to six years after the transition. D^5 was defined in the same way as before and captures the variation in institutional quality in all the years from the seventh year after the democratic transition onwards.

⁷ This definition of dummy variables assumes a much more specific timing of the effects of transitions than our baseline specification, thereby exacerbating the risk of muting the effect, which is why we do not use it as our baseline specification. Imagine for instance that the effect of a transition on institutional quality appears after exactly 13 months in all countries. Assume further that, in year t, Country A switches to democracy in January, while Country B switches to democracy in December. The improvement in institutional quality in Country A will be recorded in year t+1 while it will be recorded in year t+2 in Country B. Pooling years in batches of three reduces the likelihood of that possibility, while considering years separately introduces noise in the relationship between transition dummies and institutional quality.

The results of the regressions using a single democratic transition dummy variable are reported in Table A7. The coefficient of dummy variable D^{Total} is positive and significant at the five-percent level in both regressions, suggesting that institutional quality on average increases after democratic transitions. Furthermore, we observe that the coefficient of dummy variable A is negative and significant at the five-percent level.

Table A7: Impact of democratic transitions on overall institutional quality: After vs. before the transition

Dependent variable: $ICRG_{11\ t} - ICRG_{11\ t-1}$

| | (A7.1) | (A7.2) |
|--------------------------|------------|------------|
| ICRG _{11 t-1} | -0.161 | -0.16 |
| | (14.02)*** | (13.97)*** |
| $D^{ m Total}$ | 0.522 | 0.497 |
| | (2.12)** | (2.01)** |
| A | | -1.686 |
| | | (2.04)** |
| Number of observations | 3570 | 3570 |
| Number of Countries | 135 | 135 |
| Adjusted R-squared | 0.179 | 0.180 |
| F (zero slopes), P-value | 0.00 | 0.00 |

All regressions include country and time fixed effects. Standard errors are heteroskedastic-consistent and clustered by country and year. *** significant at 1%, ** significant at 5%, * significant at 10%

Table A8 reports the result of the regressions capturing the timing of transitions using single-year dummy variables. None of the dummy variables capturing pre-transition years or the transition year is significant at standard levels of significance. Again, this suggests that transitions were not anticipated. The post-transition dummies capturing the first, the third and the fourth transition years exhibit a positive and significant coefficient. The bulk of the effect therefore appears within four years after the transition. The two robustness checks using alternative transition dummies therefore show that our baseline results are robust to the timing assumed in the estimated specification.

Table A8: Impact of democratic transitions on overall institutional quality: Alternative definitions of democratic transitions dummy variables.

Dependent variable: $ICRG_{11\ t} - ICRG_{11\ t-1}$

| | (A8.1) | (A8.2) |
|------------------------------|------------|------------|
| ICRG _{11 t-1} | -0.157 | -0.158 |
| | (13.38)*** | (13.45)*** |
| Democratic transition year-5 | 0.004 | 0.004 |
| | (0.007) | (0.007) |
| Democratic transition year-4 | -0.316 | -0.315 |
| | (0.65) | (0.65) |
| Democratic transition year-3 | -0.535 | -0.532 |
| | (1.02) | (1.02) |
| Democratic transition year-2 | -0.021 | -0.018 |
| | (0.028) | (0.023) |
| Democratic transition year-1 | -0.387 | -0.38 |
| | (0.44) | (0.43) |
| Democratic transition year | 0.818 | 0.827 |
| | (1.47) | (1.48) |
| Democratic transition year+1 | 1.70 | 1.72 |
| | (3.03)*** | (3.051)*** |
| Democratic transition year+2 | 0.35 | 0.36 |
| | (0.781) | (0.814) |
| Democratic transition year+3 | 0.96 | 0.98 |
| | (1.95)* | (1.981)** |
| Democratic transition year+4 | 1.07 | 1.09 |
| | (2.591)*** | (2.638)*** |
| Democratic transition year+5 | 0.43 | 0.46 |
| | (0.973) | (1.021) |
| D^5 | 0.166 | 0.202 |
| | (0.55) | (0.67) |
| A | -1.831 | |
| | (2.06)** | |
| Number of observations | 3218 | 3218 |
| Number of Countries | 135 | 135 |
| Adjusted R-squared | 0.176 | 0.175 |
| F (zero slopes), P-value | 0.00 | 0.00 |
| A 11 | | 74 1 |

All regressions include country and time fixed effects. Standard errors are heteroskedastic-consistent and clustered by country and year. *** significant at 1%, ** significant at 5%, * significant at 10%

Control variables

Table A9: Impact of democratic transitions on overall institutional quality: Additional control variables

Dependent variable: $ICRG_{11\ t} - ICRG_{11\ t-1}$

| | (A9.1) | (A9.2) | (A9.3) | (A9.4) | (A9.5) |
|--------------------------|------------------|------------|------------|------------|------------|
| ICRG _{11 t-1} | -0.161 | -0.079 | -0.081 | -0.085 | -0.087 |
| | (13.31)*** | (10.50)*** | (10.47)*** | (10.71)*** | (10.75)*** |
| D^1 | -0.171 | -0.12 | -0.018 | 0.052 | 0.052 |
| | (0.40) | (0.39) | (0.06) | (0.17) | (0.17) |
| D^2 | 0.356 | 0.279 | 0.341 | 0.466 | 0.413 |
| | (0.71) | (0.62) | (0.78) | (1.11) | (1) |
| D^3 | 0.882 | 0.612 | 0.62 | 0.784 | 0.704 |
| | (1.98)** | (2.28)** | (2.04)** | (2.61)*** | (2.24)** |
| D^4 | 0.386 | -0.004 | -0.013 | 0.104 | 0.068 |
| | (0.82) | (0.01) | (0.04) | (0.34) | (0.21) |
| D^5 | 0.398 | -0.039 | -0.008 | -0.019 | 0.056 |
| | (0.92) | (0.3) | (0.06) | (0.13) | (0.38) |
| A | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 |
| | (1.27) | (4.79)*** | (4.25)*** | (3.72)*** | (3.68)*** |
| GDP per capita | 0.006 | 0.007 | 0.008 | 0.007 | 0.008 |
| Far anhum | (0.84) | (4.07)*** | (3.88)*** | (3.46)*** | (3.63)*** |
| Openness | 0.001 | 0.01 | 0.008 | 0.009 | 0.008 |
| - P | (0.029) | (3.11)*** | (2.1)** | (2.17)** | (1.83)* |
| Secondary enrolment | -0.03 | 0.001 | -0.005 | -0.005 | -0.013 |
| Secondary enronnent | (1.29) | (0.009) | (0.42) | (0.44) | (1.01) |
| Government size | 0.254 | 0.368 | 0.399 | 0.41 | 0.428 |
| dovernment size | | (4.16)*** | (4.23)*** | (4.44)*** | (4.33)*** |
| Press freedom | (1.58) -1.482 | , , | | -0.249 | |
| Piess freedom | | -0.525 | -0.502 | | -0.278 |
| D 2:11 1 1 1 1 | (1.67)* | (1.39) | (1.30) | (0.63) | (0.70) |
| British legal origin | | | -0.29 | | -0.31 |
| | | | (1.3) | | (1.23) |
| French legal origin | | | -0.267 | | -0.519 |
| 0 . 1 1 . 1 | | | (1.25) | | (2.28)** |
| Socialist legal origin | | | -0.153 | | -0.08 |
| | | | (0.54) | | (0.22) |
| German legal origin | | | -0.215 | | -0.335 |
| | | | (0.82) | | (1.22) |
| East Asia Pacific | | | | 0.23 | 0.059 |
| | | | | (1.12) | (0.24) |
| Europe and Central Asia | | | | -0.086 | -0.438 |
| | | | | (0.41) | (1.299) |
| Middle East North Africa | | | | 0.208 | 0.272 |
| | | | | (0.97) | (1.25) |
| South Asia | | | | -0.84 | -1.01 |
| | | | | (2.44)*** | (2.64)*** |
| Western Europe | | | | 0.11 | 0.022 |
| | | | | (0.43) | (0.083) |
| North America | | | | 0.322 | 0.263 |
| | | | | (0.84) | (0.65) |
| Sub-Saharan Africa | | | | -0.238 | -0.295 |
| | | | | (1.33) | (1.54) |
| Country fixed effects | yes | no | no | no | no |
| Time fixed effects | yes | yes | yes | yes | yes |
| Number of observations | 2770 | 2770 | 2690 | 2756 | 2690 |
| Number of Countries | 135 | 135 | 135 | 135 | 135 |
| | 0.180 | 0.170 | 0.166 | 0.173 | 0.169 |
| Adjusted R-squared | | | | | |

Standard errors are heteroskedastic-consistent and clustered by country and year. *** significant at 1%, ** significant at 5%, * significant at 10%

We first included time-variant control variables in Model 1, then estimated the model without country fixed effects, to explicitly control for time-invariant geographic dummies.⁸ In all these regressions, dummy variables D^1 and D^2 are statistically insignificant, confirming the absence of anticipation effects, while the coefficients of D^4 and D^5 , though positive, fail to be statistically significant at conventional levels of confidence. However, in all four regressions, the coefficient of D^3 is positive and significant at the five-percent level or beyond, confirming that institutional quality improves in the three years following a democratic transition. Overall, these results confirm that democratic transitions are followed by an improvement in institutional quality and are therefore in line with the findings of the baseline estimations.

⁸ Those time-variant variables are GDP per capita, openness to trade, secondary enrolment, the ratio of government consumption to GDP (all from the World Development Indicators database), press freedom (from Freedom House's 2014 historical dataset), and a series of time-invariant regional dummy variables.

Dropping former socialist countries

We ran specific regressions where former socialist countries were dropped from the sample. They are reported in Table A10.

Table A10: Impact of democratic transitions on overall institutional quality: Dropping former socialist countries

Dependent variable: $ICRG_{11\ t} - ICRG_{11\ t-1}$

| | (A10.1) | (A10.2) |
|--------------------------|-------------|------------|
| ICRG _{11 t-1} | -0.154 | -0.153 |
| | (12.88)*** | (12.81)*** |
| D^1 | -0.533 | -0.541 |
| | (1.407) | (1.429) |
| D^2 | 0.308 | 0.292 |
| | (0.60) | (0.57) |
| D^3 | 0.838 | 0.814 |
| | (2.11)** | (2.05)** |
| D^4 | 0.485 | 0.455 |
| | (1.32) | (1.24) |
| D^5 | 0.041 | -0.008 |
| | (0.12) | (0.02) |
| A | | -1.785 |
| | | (2.17)** |
| Number of observations | 3099 | 3099 |
| Number of Countries | 135 | 135 |
| Adjusted R-squared | 0.176 | 0.175 |
| F (zero slopes), P-value | 0.00 | 0.00 |
| | 1 1 61 1 66 | |

All regressions include country and time fixed effects. Standard errors are heteroskedastic-consistent and clustered by country and year. *** significant at 1%, ** significant at 5%, * significant at 10%

These results confirm that democratic transitions prompted no anticipation effect, as the coefficients of dummy variables D^1 and D^2 are statistically insignificant in all regressions. Moreover, the coefficient of dummy variable D^3 is positive and statistically significant at the five-percent level of confidence. Finally, we observe that the coefficients of D^4 and D^5 are statistically insignificant at standard levels of significance.

Region-specific effects

Table A11: Impact of the transitions on overall institutional quality by region Dependent variable: $ICRG_{11\ t}-ICRG_{11\ t-1}$

| Asia | | (A11.1) | (A11.2) |
|---|------------------------|-------------------|-----------|
| | $ICRG_{11\ t-1}$ | -0.201 | -0.201 |
| | | (7.68)*** | (7.68)*** |
| | D^1 | 0.272 | 0.271 |
| | | (0.30) | (0.3) |
| | D^2 | -1.522 | -1.544 |
| | | (1.55) | (1.57) |
| | D^3 | 0.372 | 0.343 |
| | | (0.36) | (0.33) |
| | D^4 | 1.186 | 1.157 |
| | | (1.16) | (1.13) |
| | D^5 | 0.515 | 0.464 |
| | | (0.5) | (0.45) |
| | A | | -1.705 |
| | | | (1.86)* |
| Number of observations | | 912 | 912 |
| Number of Countries | | 30 | 30 |
| Adjusted R-squared | | 0.17 | 0.18 |
| F (zero slopes), P-value | | 0.00 | 0.00 |
| Sub-Saharan Africa | ICRG _{11 t-1} | -0.158 | -0.154 |
| | | (7.38)*** | (7.13)*** |
| | D^1 | 0.183 | 0.144 |
| | | (0.31) | (0.24) |
| | D^2 | 1.301 | 1.234 |
| | | (1.59) | (1.51) |
| | D^3 | 1.64 | 1.53 |
| | | (2.18)** | (2.02)** |
| | D^4 | 0.753 | 0.629 |
| | | (1.24) | (1.03) |
| | D^5 | 0.475 | 0.34 |
| | | (0.85) | (0.6) |
| | A | , , | -1.832 |
| | | | (1.23) |
| Number of observations | | 850 | 850 |
| Number of Countries | | 31 | 31 |
| Adjusted R-squared | | 0.00 | 0.00 |
| F (zero slopes), P-value | | 0.96 | 0.96 |
| Latin America and the Carribean | ICRG _{11 t-1} | -0.117 | -0.117 |
| | | (5.22)*** | (5.22)*** |
| | D^1 | 0.16 | 0.16 |
| | _ | (0.25) | (0.25) |
| | D^2 | 2.158 | 2.158 |
| | | (2.33)*** | (2.33)*** |
| | D^3 | 1.73 | 1.73 |
| | | (2.84)*** | (2.84)*** |
| | D^4 | 1.303 | 1.303 |
| | D | (2.18)** | (2.18)** |
| | D^5 | 0.726 | 0.726 |
| | D | (1.19) | (1.19) |
| | A | (1.17) | 0.000 |
| | А | | (0.00) |
| | | | |
| Number of observations | | £11 | |
| Number of observations | | 641 | 641 |
| Number of observations Number of Countries Adjusted R-squared | | 641 22 0.07 | |

All regressions include country and time fixed effects. Standard errors are heteroskedastic-consistent and clustered by country and year. *** significant at 1%, ** significant at 5%, * significant at 10%

As the geographic context of transitions may affect their outcome, we let the effect of democratic transitions be specific to geographic regions as defined by the World Bank. We therefore run separate regressions for Asia, Sub-Saharan Africa, and Latin America and the Caribbean. Over our period of study, no transition was observed in either Western Europe or Northern America, and only one in the MENA region. We therefore ran no regression for those regions.

Table A11 reports the results of region-specific regressions. As before, we first estimate the model without controlling for autocratic transitions (Column A11.1) then include the autocratic transition dummy in the set of explanatory variables (Column A11.2).

Both series of regression results are in line with our baseline findings. Thus, the coefficient of the lagged value of the ICRG₁₁ index is negative and statistically significant, and the coefficient of dummy D^3 is positive and statistically significant, while other coefficients are statistically insignificant, in Sub-Saharan Africa and Latin American and the Caribbean. In the Latin American sample, we observe that D^3 is statistically significant and positive, which suggests that transitions may be anticipated in that region. We could find no statistically significant effect of democratic transitions in Asia, although we observe that the autocratic reversal dummy exhibits a negative coefficient statistically significant at the five-percent level.

Distinguishing types of transitions

We follow Papaioannou and Siourounis (2008b) and define partial democratic transitions as those resulting in the Freedom House index remaining "partly free" or in the PolityIV index remaining below seven points. By contrast, full democratic transitions are transitions that prompted the Freedom House index to be "free" and the PolityIV index to exceed seven points.

Table A12: Impact of the type of democratic transitions on overall institutional quality Dependent variable: $ICRG_{11\ t} - ICRG_{11\ t-1}$

| | Was the democratization full? | | Was the pre-dregime a mil | emocratization itary regime? | Was the pre-democratization regime a communist regime? | | |
|--------------------------|-------------------------------|------------|---------------------------|------------------------------|--|------------|--|
| | (A12.1) | (A12.2) | (A12.3) | (A12.4) | (A12.5) | (A12.6) | |
| ICRG _{11 t-1} | -0.16 | -0.159 | -0.158 | -0.158 | -0.159 | -0.159 | |
| | (13.83)*** | (13.77)*** | (13.61)*** | (13.55)*** | (13.67)*** | (13.60)*** | |
| NO | | | | | | | |
| D^1 | -0.363 | -0.371 | -0.043 | -0.054 | -0.545 | -0.553 | |
| | (0.92) | (0.94) | (0.07) | (0.089) | (1.44) | (1.46) | |
| D^2 | 0.035 | 0.021 | -0.214 | -0.231 | 0.313 | 0.298 | |
| | (0.066) | (0.041) | (0.25) | (0.27) | (0.62) | (0.59) | |
| D^3 | 0.906 | 0.885 | -0.262 | -0.286 | 0.847 | 0.824 | |
| | (2.05)** | (2.01)** | (0.29) | (0.31) | (2.13)** | (2.08)** | |
| D^4 | 0.301 | 0.273 | 1.894 | 1.866 | 0.54 | 0.511 | |
| | (0.7) | (0.63) | (2.07)** | (2.04)** | (1.47) | (1.39) | |
| D^5 | 0.041 | -0.003 | 0.721 | 0.676 | 0.088 | 0.041 | |
| | (0.11) | (0.007) | (1.29) | (1.21) | (0.26) | (0.12) | |
| YES | | | | | | | |
| D^1 | -0.859 | -0.862 | -0.821 | -0.826 | -1.71 | -1.696 | |
| | (1.21) | (1.21) | (2.17)** | (2.19)** | (1.75)* | (1.73)* | |
| D^2 | 0.711 | 0.695 | 0.33 | 0.318 | -1.466 | -1.456 | |
| | (0.71) | (0.69) | (0.64) | (0.61) | (1.35) | (1.34) | |
| D^3 | 0.938 | 0.916 | 0.848 | 0.828 | -0.842 | -0.84 | |
| | (1.86)* | (1.82)* | (2.36)** | (2.31)** | (1.03) | (1.03) | |
| D^4 | 0.527 | 0.498 | 0.088 | 0.06 | -1.873 | -1.88 | |
| | (1.1) | (1.04) | (0.25) | (0.17) | (1.96)** | (1.96)** | |
| D^5 | 0.411 | 0.364 | 0.017 | -0.028 | -1.164 | -1.186 | |
| | (1.02) | (0.91) | (0.054) | (0.086) | (1.44) | (1.46) | |
| A | | -1.753 | | -1.762 | | -1.752 | |
| | | (2.11)** | | (2.12)** | | (2.11)** | |
| Number of observations | 3486 | 3486 | 3486 | 3486 | 3486 | 3486 | |
| Number of Countries | 135 | 135 | 135 | 135 | 135 | 135 | |
| Adjusted R-squared | 0.184 | 0.185 | 0.186 | 0.187 | 0.184 | 0.186 | |
| F (zero slopes), P-value | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

All regressions include country and time fixed effects. Standard errors are heteroskedastic-consistent and clustered by country and year. *** significant at 1%, ** significant at 5%, * significant at 10%

We follow Cheibub et al. (2010) and define a regime as military if the effective head is or was a member of the military by profession. Finally, we distinguished transitions that were accompanied by a move out of communism from other transitions, following Cheibub et al. (2010), who classify a regime as communist if the country leader is the head of the Communist Party.

Non-linear regressions

The first variable on which we condition the impact of transitions is GDP per capita. La Porta et al. (1999) for instance argue that economic development itself should create demand for good government. In turn, it stands to reason that the same demand for good government should be more effective in a democratic country, where officials are elected and civil rights respected. We should therefore expect the effect of democratic transitions on institutional outcomes to be larger in countries with a higher GDP per capita. We accordingly interacted democratic transition dummies with per capita GDP.

Secondly, the impact of democratic transitions may be affected by education, because better educated citizens are more likely to report inappropriate behavior, as suggested by the finding of Botero et al. (2013). As complaints are likely to be more dangerous in dictatorships than in democracies, we should expect democratic transitions to unleash more complaints and the effect to be larger in countries where citizens are more educated hence more prone to complain. We therefore interacted democratic transition dummies with the ratio of total students in secondary education over the population of the relevant age (Barro and Lee, 2013).

Thirdly, another variable on which we condition the impact of transitions is whether the regime change was regular or irregular. We follow Colgan's (2012) definition of irregular transfers and consider that a transfer is irregular if the individual leader used armed force against his own state at any time prior to coming to office as an integral part of his coming to state leadership, or if mass demonstrations or uprisings were instrumental in deciding the outcome

of the transition. We created a dummy variable set to one if the transition was irregular and zero otherwise and interacted it with democratic transition dummies.

We include each of those variables and their interaction terms in the same regression. The raw coefficients of the estimations including interaction terms are reported in Table A13. Because individual coefficients in models with an interaction term cannot be directly interpreted, Table A14 reports the marginal effects of D^{j} variables estimated at the minimum, mean, and maximum values of each additional control variable. The marginal effect of D^{3} is positive and statistically significant at the ten-percent level around the mean value of GDP per capita and schooling. D^{3} , D^{4} , and D^{5} are also significantly positive around the minimum of schooling. When the level of schooling approaches its maximum, the marginal effects of the variables coding transitions are either statistically insignificant or statistically significant and negative. This finding is in line with Berthélemy et al.'s (2000) contention that skilled labor may be devoted to unproductive activities such as rent-seeking.

⁹ On the interpretation of models including an interaction term, see Brambor et al. (2006).

Table A13: Conditional impact of democratic transitions on overall institutional quality: Raw coefficients

Dependent variable: $ICRG_{11\ t} - ICRG_{11\ t-1}$

| Interaction with | GDP per capita | Secondary schooling | Irregular transfer | | |
|--------------------------|----------------|---------------------|--------------------|--|--|
| | (A13.1) | (A13.2) | (A13.3) | | |
| ICRG _{11 t-1} | -0.158 | -0.162 | -0.164 | | |
| | (14.23)*** | (13.56)*** | (12.33)*** | | |
| D^1 | -1.009 | 0.801 | -0.719 | | |
| | (1.96)** | (1.42) | (1.55) | | |
| D^2 | -0.437 | 0.763 | -0.466 | | |
| | (0.72) | (0.98) | (0.73) | | |
| D^3 | 0.376 | 2.107 | 0.17 | | |
| | (0.87) | (3.49)*** | (0.35) | | |
| D^4 | 0.058 | 1.398 | -0.501 | | |
| | (0.14) | (2.44)*** | (1.00) | | |
| D^5 | 0.101 | 1.086 | -0.699 | | |
| | (0.33) | (2.25)** | (1.48) | | |
| D^1 * interaction | 0.179 | -0.081 | 0.237 | | |
| | (1.24) | (2.25)** | (0.33) | | |
| D^2 * interaction | 0.101 | -0.056 | 0.886 | | |
| | (0.71) | (1.33) | (0.80) | | |
| D^3 * interaction | 0.085 | -0.069 | 0.766 | | |
| | (1.08) | (3.01)*** | (0.86) | | |
| D^4 * interaction | 0.048 | -0.063 | 1.602 | | |
| | (0.73) | (2.43)*** | (1.73)* | | |
| D^5 * interaction | 0.023 | -0.047 | 0.937 | | |
| | (0.74) | (2.59)*** | (1.545) | | |
| A | -1.115 | -1.742 | -1.582 | | |
| | (1.42) | (2.11)** | (1.09) | | |
| GDP per capita | -0.014 | | | | |
| | (0.89) | | | | |
| Secondary schooling | | 0.038 | | | |
| | | (2.01) | | | |
| Use of force | | | -0.58 | | |
| | | | (1.50) | | |
| Number of observations | 3287 | 3170 | 2179 | | |
| Number of Countries | 135 | 135 | 135 | | |
| Adjusted R-squared | 0.179 | 0.181 | 0.159 | | |
| F (zero slopes), P-value | 0.00 | 0.00 | 0.00 | | |

All regressions include country and time fixed effects. Standard errors are heteroskedastic-consistent and clustered by country and year. *** significant at 1%, ** significant at 5%, * significant at 10%

Table A14: Conditional impact of democratic transitions on overall institutional quality: Marginal effects

Dependent variable: $ICRG_{11\ t} - ICRG_{11\ t-1}$

| | | (A14.1) | | | (A14.2) | (A14.3) | | |
|--------------------------|----------|-------------|--------|-----------|------------|--------------------|--------|--------|
| | G | DP per capi | ta | Seco | ndary scho | Irregular transfer | | |
| | Min. | Mean | Max. | Min. | Mean | Max. | No | Yes |
| D^{I} | -0.979 | 1.452 | 19.02 | 0.798 | -0.773 | -4.841 | -0.719 | -0.482 |
| | (1.97)** | (0.87) | (1.21) | (1.42) | (1.45) | (2.23)** | (1.55) | (0.75) |
| D^2 | -0.42 | 0.947 | 10.82 | 0.761 | -0.33 | -3.153 | -0.466 | 0.421 |
| | (0.71) | (0.6) | (0.7) | (0.98) | (0.55) | (1.3) | (0.73) | (0.42) |
| D^3 | 0.39 | 1.547 | 9.905 | 2.105 | 0.761 | -2.718 | 0.17 | 0.936 |
| | (0.92) | (1.780)* | (1.16) | (3.49)*** | (1.740)* | (2.15)** | (0.35) | (1.12) |
| D^4 | 0.066 | 0.725 | 5.486 | 1.396 | 0.169 | -3.01 | -0.501 | 1.101 |
| | (0.16) | (0.93) | (0.76) | (2.44)*** | (0.38) | (2.01)** | (1.00) | (1.32) |
| D^5 | 0.105 | 0.423 | 2.719 | 1.084 | 0.164 | -2.218 | -0.699 | 0.238 |
| | (0.35) | (0.86) | (0.78) | (2.24)** | (0.41) | (2.08)** | (1.48) | (0.35) |
| Number of observations | 3922 | | | 3115 | 2162 | | | |
| Number of Countries | 135 | | 135 | | | 135 | | |
| Adjusted R-squared | 0.188 | | | 0.185 | 0.164 | | | |
| F (zero slopes), P-value | 0.00 | | 0.00 | | | 0.00 | | |

All regressions include country and time fixed effects. Standard errors are heteroskedastic-consistent and clustered by country and year. *** significant at 1%, ** significant at 5%, * significant at 10%

Components of the ICRG Index

Table A15: Impact of democratic transitions on the components of the ICRG index. Dependent variable: $ICRG_{11\ t} - ICRG_{11\ t-1}$

| - | | | | | | | | | | | |
|--------------------------|------------|------------------|----------------------|-------------------|-------------------|----------------------|-----------------|--------------------|--------------------|-----------------------|----------------------|
| ICRG component | Corruption | Law and Order | Military in politics | External conflict | Internal conflict | Bureaucratic quality | Ethnic tensions | Investment profile | Religious tensions | Socioecon. conditions | Government stability |
| | A15.2 | A15.3 | A15.4 | A15.5 | A15.6 | A15.11 | A15.8 | A15.10 | A15.7 | A15.9 | A15.1 |
| ICRG component t-1 | -0.14 | -0.134 | -0.131 | -0.176 | -0.155 | -0.091 | -0.127 | -0.192 | -0.105 | -0.164 | -0.301 |
| | (18.26)*** | (17.06)*** | (16.39)*** | (21.72)*** | (19.61)*** | (16.13)*** | (18.12)*** | (21.13)*** | (17.16)*** | (20.03)*** | (27.43)*** |
| D^1 | -0.034 | -0.054 | 0.022 | 0.099 | -0.244 | -0.037 | -0.147 | -0.063 | -0.051 | -0.022 | -0.016 |
| | (1.01) | (1.36) | (0.5) | (1.35) | (2.99)*** | (1.91)** | (4.28)*** | (0.77) | (1.81)* | (0.31) | (0.16) |
| D^2 | -0.004 | -0.01 | 0.059 | 0.26 | 0.007 | -0.013 | 0.025 | -0.157 | -0.069 | -0.171 | -0.093 |
| | (0.13) | (0.25) | (1.34) | (3.76)*** | (0.09) | (0.73) | (0.78) | (2.06)** | (2.63)*** | (2.64)*** | (1.01) |
| D^3 | 0.1 | 0.082 | 0.146 | 0.272 | 0.125 | 0.002 | 0.003 | 0.066 | -0.015 | -0.036 | -0.16 |
| | (3.35)*** | (2.13)** | (3.39)*** | (4.16)*** | (1.73)* | (0.10) | (0.11) | (0.91) | (0.62) | (0.6) | (1.83)* |
| D^4 | 0.034 | 0.031 | 0.084 | 0.225 | 0.001 | -0.011 | 0.02 | -0.034 | -0.018 | -0.221 | 0.001 |
| | (1.07) | (0.78) | (1.88)* | (3.29)*** | (0.02) | (0.61) | (0.63) | (0.45) | (0.70) | (3.461)*** | (0.001) |
| D^5 | -0.025 | -0.006 | 0.078 | 0.085 | -0.042 | 0.012 | -0.026 | 0.007 | -0.034 | -0.162 | -0.062 |
| | (1.07) | (0.16 | (1.86)* | (1.65)* | (0.74) | (0.87) | (1.07) | (0.11) | (1.75)* | (3.35)*** | (0.90) |
| A | -0.025 | -0.018 | -0.285 | -0.239 | -0.125 | -0.023 | -0.013 | -0.345 | 0.012 | -0.203 | -0.056 |
| | (0.46) | (0.21) | (2.88)*** | (2.01)** | (0.95) | (0.75) | (0.24) | (2.62)*** | (0.26) | (1.82)* | (0.35) |
| Number of observations | 3359 | 3359 | 3359 | 3359 | 3359 | 3359 | 3359 | 3359 | 3359 | 3359 | 3359 |
| Number of Countries | 135 | 135 | 135 | 135 | 135 | 135 | 135 | 135 | 135 | 135 | 135 |
| Adjusted R-squared | 0.12 | 0.18 | 0.07 | 0.17 | 0.18 | 0.14 | 0.18 | 0.23 | 0.11 | 0.11 | 0.26 |
| F (zero slopes), P-value | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

All regressions include country and time fixed effects. Standard errors are heteroskedastic-consistent and clustered at the country level. Absolute t-statistics are in parentheses. *** significant at 1%, ** significant at 5%, * significant at 10%

A4. REFERENCES OF THE ONLINE APPENDIX

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