# Supplementary Material

# The many faces of authoritarian persistence: A set-theoretic perspective on the survival strategies of authoritarian regimes

# Overview Raw and Calibrated Data

Table 1: List of Cases and Indicators before Calibration

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **abb.** | **code** | **gwf casename** | **regime**  **start** | **regime**  **end** | **pers** | **repp** | **repc** | **coopv** | **coops** | **fomyth** | **ideo** | **perso** | **inteng** | **proc** | **perf** |
| ALG | 615 | Algeria 92-NA | 1999 | 2010 | 1 | 4.08 | 4.03 | 0.56 | 7.00 | 4.67 | 3.67 | 3.5 | 3 | 4.33 | 3.67 |
| ANG | 540 | Angola 75-NA | 2008 | 2010 | 1 | 3.17 | 4.17 | 0.20 | 5.50 | 4 | 2.5 | 3.5 | 2 | 3.5 | 5 |
| AZE | 373 | Azerbaijan 93-NA | 1993 | 2010 | 1 | 3.10 | 3.96 | 1.02 | 6.98 | 1 | 2.25 | 3.25 | 1.25 | 3 | 4 |
| BAH | 692 | Bahrain 1971-NA | 1991 | 2010 | 1 | 5.63 | 4.98 | -0.30 | 3.59 | 2 | 1 | 3 | 0.67 | 4.67 | 3.33 |
| BNG | 771 | Bangladesh 07-08 | 1999 | 2010 | 0 | 1.06 | 6.97 | 1.27 | 5.54 | 3.67 | 2.67 | 2 | 1.67 | 3.33 | 2.67 |
| BLR | 370 | Belarus 94-NA | 1994 | 2010 | 1 | 3.95 | 2.25 | -0.06 | 5.98 | 2.75 | 3.5 | 3.5 | 2 | 3.5 | 4 |
| BFO | 439 | Burkina Faso 87-NA | 1991 | 2010 | 1 | 5.07 | 10.12 | 7.36 | 6.56 | 3 | 2.33 | 4.67 | 4.33 | 3.33 | 3.67 |
| CAM | 811 | Cambodia 79-NA | 1993 | 2010 | 1 | 3.29 | 8.08 | 1.92 | 5.99 | 4.5 | 3.5 | 4 | 1.5 | 4.5 | 4 |
| CAO | 471 | Cameroon 83-NA | 1992 | 2010 | 1 | 3.15 | 4.18 | 3.08 | 6.34 | 1.5 | 2 | 3 | 2 | 1.5 | 3 |
| CEN | 482 | Cen African Rep 03-NA | 2003 | 2010 | 1 | 2.61 | 5.03 | 2.41 | 6.31 | 2 | 1.5 | 1.5 | 1 | 2.5 | 2.5 |
| CHA | 483 | Chad 90-NA | 1996 | 2010 | 1 | 2.81 | 4.90 | 4.22 | 6.97 | 1 | 0 | 2 | 0.5 | 2 | 2.5 |
| CHN | 710 | China 49-NA | 1991 | 2010 | 1 | 1.08 | 0.79 | 3.34 | 3.00 | 5 | 4.75 | 2 | 3 | 3.5 | 4.75 |
| CON | 484 | Congo-Brz 97-NA | 2002 | 2010 | 1 | 4.87 | 8.49 | -0.38 | 6.89 | 3 | 1 | 4 | 4 | 5 | 4.5 |
| DRC | 490 | Congo/Zaire 97-NA | 1997 | 2010 | 1 | 1.11 | 2.86 | 0.55 | 4.38 | 1.5 | 1.5 | 2.5 | 0.5 | 2 | 4 |
| CUB | 40 | Cuba 59-NA | 2008 | 2010 | 1 | 4.00 | 0.00 | 3.88 | 4.00 | 5 | 5 | 2.5 | 4 | 4.5 | 4 |
| EGY | 651 | Egypt 52-NA | 1991 | 2010 | 1 | 2.84 | 3.84 | 1.53 | 6.00 | 3.25 | 1.75 | 2.5 | 3.25 | 4.25 | 4 |
| ERI | 531 | Eritrea 93-NA | 1993 | 2010 | 1 | 2.77 | 2.58 | -1.67 | 2.00 | 5 | 3.75 | 3.25 | 0.75 | 1.75 | 3.75 |
| ETH | 530 | Ethiopia 91-NA | 1995 | 2010 | 1 | 1.82 | 5.06 | 0.38 | 6.82 | 4.4 | 4 | 4 | 4.4 | 3.8 | 4.8 |
| GAB | 481 | Gabon 60-NA | 1991 | 2010 | 1 | 6.23 | 6.55 | 3.74 | 7.00 | 2.33 | 1.67 | 2 | 2 | 3.33 | 3.67 |
| GAM | 420 | Gambia 94-NA | 1997 | 2010 | 1 | 5.12 | 8.47 | 3.39 | 7.00 | 4 | 5 | 4 | 3.5 | 5 | 4 |
| GHA | 452 | Ghana 81-00 | 1991 | 1992 | 0 | 5.67 | 9.00 | 4.03 | 2.00 | 1.67 | 2.33 | 3.33 | 3.67 | 3.67 | 4.33 |
| INS | 850 | Indonesia 66-99 | 1991 | 1998 | 0 | 1.03 | 2.58 | 2.46 | 6.00 | 4.25 | 4 | 4 | 3.5 | 4.25 | 5 |
| IRN | 630 | Iran 79-NA | 1991 | 2010 | 1 | 0.83 | 0.89 | -0.05 | 6.43 | 4.5 | 5 | 2.5 | 3 | 4 | 3 |
| CDI | 437 | Ivory Coast 99-00 | 2000 | 2010 | 1 | 2.44 | 4.79 | 4.99 | 6.98 | 2.5 | 4 | 2.5 | 0 | 2.5 | 2 |
| JOR | 663 | Jordan 46-NA | 1991 | 2010 | 1 | 4.23 | 3.66 | 1.71 | 5.59 | 3 | 3 | 3.67 | 3.67 | 4 | 3 |
| KZK | 705 | Kazakhstan 91-NA | 1991 | 2010 | 1 | 4.59 | 3.81 | 0.71 | 6.20 | 1.67 | 3 | 4.67 | 3.5 | 4 | 4 |
| PRK | 731 | Korea North 48-NA | 1991 | 2010 | 1 | 0.08 | 0.01 | 1.78 | 3.00 | 5 | 5 | 4.67 | 0.33 | 2 | 1.67 |
| KUW | 690 | Kuwait 61-NA | 1991 | 2010 | 1 | 5.65 | 3.86 | 0.84 | 3.96 | 2.4 | 2 | 2.2 | 2 | 4.2 | 3.2 |
| KYR | 703 | Kyrgyzstan 05-10 | 2005 | 2010 | 0 | 4.48 | 5.24 | 1.96 | 6.29 | 1.33 | 1 | 0.33 | 1 | 2.67 | 1.67 |
| LAO | 812 | Laos 75-NA | 1991 | 2010 | 1 | 4.54 | 2.92 | 0.89 | 4.94 | 3 | 3.33 | 0.67 | 0.67 | 2.33 | 2 |
| LIB | 620 | Libya 69-NA | 1991 | 2010 | 1 | 2.79 | 2.16 | 3.48 | 2.00 | 4 | 4.33 | 4 | 3.67 | 3 | 3.33 |
| MAL | 820 | Malaysia 57-NA | 1991 | 2010 | 1 | 4.69 | 3.88 | 2.34 | 7.00 | 2.2 | 3.4 | 1.6 | 2.8 | 4.6 | 4.8 |
| MAA | 435 | Mauritania 08-NA | 2008 | 2010 | 0 | 5.00 | 5.17 | 3.48 | 5.33 | 1 | 4 | 4 | 0 | 4.5 | 0 |
| MEX | 70 | Mexico 15-00 | 1991 | 1999 | 0 | 2.24 | 10.98 | 4.22 | 7.00 | 4 | 3 | 1.67 | 2 | 4.67 | 4.33 |
| MOR | 600 | Morocco 56-NA | 1991 | 2010 | 1 | 4.07 | 4.68 | 2.12 | 7.00 | 4.5 | 3 | 4.5 | 1.5 | 3.5 | 2.5 |
| MZM | 541 | Mozambique 75-NA | 2009 | 2010 | 1 | 5.00 | 7.33 | 3.39 | 6.33 | 5 | 2 | 1.33 | 1.5 | 4.33 | 2 |
| MYA | 775 | Myanmar 88-NA | 1991 | 2010 | 1 | 0.88 | 0.39 | -0.26 | 2.00 | 3 | 3 | 2.5 | 2 | 2.5 | 3 |
| OMA | 698 | Oman 41-NA | 1991 | 2010 | 1 | 7.08 | 2.91 | 2.38 | 2.54 | 4.5 | 0 | 5 | 2 | 1 | 4 |
| PAK | 770 | Pakistan 99-08 | 1999 | 2010 | 0 | 0.42 | 3.47 | 2.56 | 6.31 | 0.67 | 1 | 0.33 | 1.67 | 3.33 | 2 |
| PER | 135 | Peru 92-00 | 1991 | 1999 | 0 | 2.51 | 10.24 | 0.66 | 7.00 | 0.33 | 1 | 2.67 | 0.33 | 4.33 | 5 |
| QAT | 694 | Qatar 1971-NA | 1991 | 2010 | 1 | 7.24 | 3.87 | -2.67 | 2.00 | 1.67 | 2.67 | 3.33 | 4.33 | 1.67 | 5 |
| RUS | 365 | Russia 93-NA | 2000 | 2010 | 1 | 1.66 | 2.99 | 1.82 | 7.00 | 1 | 1.33 | 3.17 | 3.4 | 4.33 | 4.33 |
| RWA | 517 | Rwanda 94-NA | 1994 | 2010 | 1 | 2.94 | 5.05 | 1.12 | 4.58 | 5 | 4.5 | 5 | 4 | 4.5 | 5 |
| SAU | 670 | Saudi Arabia 27-NA | 1991 | 2010 | 1 | 3.90 | 0.21 | 0.29 | 2.00 | 4.5 | 5 | 5 | 4.5 | 0.5 | 4.5 |
| SEN | 433 | Senegal 60-00 | 1991 | 1999 | 0 | 2.22 | 9.89 | 3.01 | 7.00 | 1.33 | 1.33 | 0.67 | 1.33 | 5 | 2.33 |
| CS | 345 | Serbia 91-00 | 1992 | 2000 | 0 | 1.32 | 2.54 | -1.80 | 7.00 | 2 | 3.67 | 3.33 | 1 | 3.67 | 0.67 |
| SUD | 625 | Sudan 89-NA | 1991 | 2010 | 1 | 0.64 | 1.22 | 1.38 | 3.58 | 3.33 | 4.67 | 1.67 | 2.33 | 3.67 | 1.67 |
| SWA | 572 | Swaziland 68-NA | 1991 | 2010 | 1 | 5.32 | 4.16 | 6.14 | 3.96 | 3.5 | 5 | 5 | 2 | 4 | 3 |
| SYR | 652 | Syria 63-NA | 1991 | 2010 | 1 | 2.63 | 1.58 | -3.18 | 7.00 | 4.5 | 4 | 4 | 0.5 | 2 | 3 |
| TAJ | 702 | Tajikistan 91-NA | 1992 | 2010 | 1 | 3.41 | 4.76 | 0.10 | 6.51 | 3.33 | 2.33 | 3 | 0.67 | 2.67 | 4.33 |
| TAZ | 510 | Tanzania 64-NA | 1995 | 2010 | 1 | 4.46 | 5.27 | 5.27 | 6.46 | 3.2 | 3 | 2 | 1.6 | 5 | 4.25 |
| THI | 800 | Thailand 06-07 | 2006 | 2010 | 0 | 1.60 | 5.73 | 1.84 | 6.27 | 1 | 3 | 0.5 | 2 | 4.5 | 1.5 |
| TOG | 461 | Togo 63-NA | 2005 | 2010 | 1 | 3.71 | 5.52 | 2.93 | 7.00 | 2.5 | 2.5 | 2.5 | 2 | 3.5 | 2 |
| TUN | 616 | Tunisia 56-NA | 1991 | 2010 | 1 | 3.72 | 4.25 | 4.49 | 5.95 | 2.5 | 2.5 | 2 | 1 | 4 | 4 |
| TKM | 701 | Turkmenistan 91-NA | 1991 | 2006 | 1 | 4.17 | 1.36 | 0.57 | 5.00 | 4.5 | 4.5 | 5 | 1 | 2.5 | 4.5 |
| UGA | 500 | Uganda 86-NA | 2009 | 2010 | 1 | 2.00 | 3.33 | 0.12 | 7.00 | 4.67 | 3 | 4.33 | 4 | 4 | 4.33 |
| UAE | 696 | United Arab Emirates 71-NA | 1991 | 2010 | 1 | 6.50 | 0.89 | 8.56 | 2.00 | 4 | 4.5 | 4 | 3 | 2 | 4.5 |
| UZB | 704 | Uzbekistan 91-NA | 1991 | 2010 | 1 | 3.01 | 1.14 | 0.19 | 6.37 | 3.25 | 4.25 | 3.25 | 2 | 3.67 | 4.25 |
| DRV | 816 | Vietnam 54-NA | 1991 | 2010 | 1 | 3.66 | 1.04 | 2.38 | 3.99 | 4.5 | 4.5 | 0.5 | 1.5 | 5 | 4.5 |
| YEM | 679 | Yemen 78-NA | 1993 | 2010 | 1 | 2.29 | 3.02 | -0.02 | 6.37 | 4.67 | 4 | 4 | 2 | 3.67 | 3.33 |
| ZAM | 551 | Zambia 96-NA | 1996 | 2007 | 1 | 4.33 | 8.08 | 5.34 | 7.00 | 1.5 | 1 | 4 | 1.5 | 4 | 4.5 |
| ZIM | 552 | Zimbabwe 80-NA | 1991 | 2010 | 1 | 2.29 | 3.06 | 2.31 | 6.74 | 4.75 | 4 | 4.25 | 2.25 | 4.25 | 3.75 |

NOTE: The time specification behind the regimes’ names refer to Geddes et al.’s (2014) definition of autocracy and are the basis for determining a regime’s (non-) persistence. NA means that the respective regime was persistent until 2010, the end of their observation. Column 4 and 5 follow von Soest and Grauvogel (2017) and specify the time span covered by the data.

Table 2: Calibrated Set Membership Values of All Cases

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **abb.** | **code** | **gwf casename** | **regime**  **start** | **regime**  **end** | **pers** | **repp** | **repc** | **coopv** | **coops** | **legd** | **legs** |
| ALG | 615 | Algeria 92-NA | 1999 | 2010 | 1 | 0.53 | 0.77 | 0.30 | 0 | 0.96 | 0.87 |
| ANG | 540 | Angola 75-NA | 2008 | 2010 | 1 | 0.72 | 0.74 | 0.21 | 1 | 0.87 | 0.95 |
| AZE | 373 | Azerbaijan 93-NA | 1993 | 2010 | 1 | 0.73 | 0.78 | 0.44 | 1 | 0.67 | 0.73 |
| BAH | 692 | Bahrain 1971-NA | 1991 | 2010 | 1 | 0.09 | 0.59 | 0.12 | 0 | 0.55 | 0.91 |
| BNG | 771 | Bangladesh 07-08 | 1999 | 2010 | 0 | 0.95 | 0.22 | 0.51 | 1 | 0.77 | 0.46 |
| BLR | 370 | Belarus 94-NA | 1994 | 2010 | 1 | 0.56 | 0.94 | 0.16 | 1 | 0.79 | 0.73 |
| BFO | 439 | Burkina Faso 87-NA | 1991 | 2010 | 1 | 0.20 | 0.02 | 0.99 | 1 | 0.97 | 0.99 |
| CAM | 811 | Cambodia 79-NA | 1993 | 2010 | 1 | 0.70 | 0.10 | 0.64 | 1 | 0.95 | 0.88 |
| CAO | 471 | Cameroon 83-NA | 1992 | 2010 | 1 | 0.72 | 0.74 | 0.81 | 1 | 0.55 | 0.43 |
| CEN | 482 | Cen African Rep 03-NA | 2003 | 2010 | 1 | 0.81 | 0.58 | 0.72 | 1 | 0.10 | 0.13 |
| CHA | 483 | Chad 90-NA | 1996 | 2010 | 1 | 0.78 | 0.61 | 0.91 | 1 | 0.20 | 0.12 |
| CHN | 710 | China 49-NA | 1991 | 2010 | 1 | 0.95 | 0.98 | 0.84 | 0 | 1.00 | 0.92 |
| CON | 484 | Congo-Brz 97-NA | 2002 | 2010 | 1 | 0.25 | 0.07 | 0.11 | 1 | 0.90 | 0.98 |
| DRC | 490 | Congo/Zaire 97-NA | 1997 | 2010 | 1 | 0.95 | 0.90 | 0.29 | 1 | 0.35 | 0.73 |
| CUB | 40 | Cuba 59-NA | 2008 | 2010 | 1 | 0.55 | 0.99 | 0.89 | 0 | 1.00 | 0.98 |
| EGY | 651 | Egypt 52-NA | 1991 | 2010 | 1 | 0.78 | 0.79 | 0.56 | 1 | 0.58 | 0.92 |
| ERI | 531 | Eritrea 93-NA | 1993 | 2010 | 1 | 0.79 | 0.92 | 0.02 | 0 | 0.98 | 0.62 |
| ETH | 530 | Ethiopia 91-NA | 1995 | 2010 | 1 | 0.90 | 0.57 | 0.25 | 1 | 0.95 | 0.99 |
| GAB | 481 | Gabon 60-NA | 1991 | 2010 | 1 | 0.03 | 0.28 | 0.88 | 0 | 0.20 | 0.58 |
| GAM | 420 | Gambia 94-NA | 1997 | 2010 | 1 | 0.18 | 0.08 | 0.84 | 0 | 1.00 | 0.95 |
| GHA | 452 | Ghana 81-00 | 1991 | 1992 | 0 | 0.08 | 0.05 | 0.90 | 0 | 0.70 | 0.96 |
| INS | 850 | Indonesia 66-99 | 1991 | 1998 | 0 | 0.95 | 0.92 | 0.73 | 1 | 0.95 | 0.95 |
| IRN | 630 | Iran 79-NA | 1991 | 2010 | 1 | 0.96 | 0.98 | 0.16 | 0 | 1.00 | 0.87 |
| CDI | 437 | Ivory Coast 99-00 | 2000 | 2010 | 1 | 0.83 | 0.63 | 0.95 | 1 | 0.95 | 0.13 |
| JOR | 663 | Jordan 46-NA | 1991 | 2010 | 1 | 0.49 | 0.82 | 0.60 | 1 | 0.82 | 0.96 |
| KZK | 705 | Kazakhstan 91-NA | 1991 | 2010 | 1 | 0.34 | 0.80 | 0.34 | 1 | 0.97 | 0.95 |
| PRK | 731 | Korea North 48-NA | 1991 | 2010 | 1 | 0.98 | 0.99 | 0.61 | 0 | 1.00 | 0.05 |
| KUW | 690 | Kuwait 61-NA | 1991 | 2010 | 1 | 0.09 | 0.79 | 0.38 | 0 | 0.25 | 0.81 |
| KYR | 703 | Kyrgyzstan 05-10 | 2005 | 2010 | 0 | 0.39 | 0.53 | 0.64 | 1 | 0.02 | 0.18 |
| LAO | 812 | Laos 75-NA | 1991 | 2010 | 1 | 0.37 | 0.90 | 0.40 | 1 | 0.68 | 0.10 |
| LIB | 620 | Libya 69-NA | 1991 | 2010 | 1 | 0.79 | 0.94 | 0.85 | 0 | 0.98 | 0.96 |
| MAL | 820 | Malaysia 57-NA | 1991 | 2010 | 1 | 0.31 | 0.79 | 0.71 | 0 | 0.73 | 0.93 |
| MAA | 435 | Mauritania 08-NA | 2008 | 2010 | 0 | 0.21 | 0.55 | 0.85 | 1 | 0.95 | 0.88 |
| MEX | 70 | Mexico 15-00 | 1991 | 1999 | 0 | 0.86 | 0.01 | 0.91 | 0 | 0.87 | 0.91 |
| MOR | 600 | Morocco 56-NA | 1991 | 2010 | 1 | 0.53 | 0.65 | 0.67 | 0 | 0.96 | 0.55 |
| MZM | 541 | Mozambique 75-NA | 2009 | 2010 | 1 | 0.21 | 0.17 | 0.85 | 1 | 0.98 | 0.85 |
| MYA | 775 | Myanmar 88-NA | 1991 | 2010 | 1 | 0.96 | 0.99 | 0.12 | 0 | 0.45 | 0.43 |
| OMA | 698 | Oman 41-NA | 1991 | 2010 | 1 | 0.01 | 0.90 | 0.71 | 0 | 0.98 | 0.73 |
| PAK | 770 | Pakistan 99-08 | 1999 | 2010 | 0 | 0.97 | 0.84 | 0.74 | 1 | 0.02 | 0.46 |
| PER | 135 | Peru 92-00 | 1991 | 1999 | 0 | 0.83 | 0.02 | 0.33 | 0 | 0.41 | 0.95 |
| QAT | 694 | Qatar 1971-NA | 1991 | 2010 | 1 | 0.01 | 0.79 | 0.01 | 0 | 0.70 | 0.99 |
| RUS | 365 | Russia 93-NA | 2000 | 2010 | 1 | 0.91 | 0.89 | 0.62 | 0 | 0.63 | 0.94 |
| RWA | 517 | Rwanda 94-NA | 1994 | 2010 | 1 | 0.76 | 0.57 | 0.47 | 1 | 0.99 | 0.98 |
| SAU | 670 | Saudi Arabia 27-NA | 1991 | 2010 | 1 | 0.57 | 0.99 | 0.23 | 0 | 1.00 | 0.99 |
| SEN | 433 | Senegal 60-00 | 1991 | 1999 | 0 | 0.86 | 0.02 | 0.80 | 0 | 0.04 | 0.95 |
| CS | 345 | Serbia 91-00 | 1992 | 2000 | 0 | 0.93 | 0.92 | 0.02 | 0 | 0.87 | 0.62 |
| SUD | 625 | Sudan 89-NA | 1991 | 2010 | 1 | 0.96 | 0.97 | 0.53 | 0 | 0.99 | 0.62 |
| SWA | 572 | Swaziland 68-NA | 1991 | 2010 | 1 | 0.14 | 0.75 | 0.98 | 0 | 1.00 | 0.75 |
| SYR | 652 | Syria 63-NA | 1991 | 2010 | 1 | 0.81 | 0.96 | 0.00 | 1 | 0.95 | 0.27 |
| TAJ | 702 | Tajikistan 91-NA | 1992 | 2010 | 1 | 0.67 | 0.64 | 0.19 | 1 | 0.62 | 0.84 |
| TAZ | 510 | Tanzania 64-NA | 1995 | 2010 | 1 | 0.40 | 0.53 | 0.96 | 1 | 0.55 | 0.95 |
| THI | 800 | Thailand 06-07 | 2006 | 2010 | 0 | 0.92 | 0.43 | 0.62 | 1 | 0.45 | 0.88 |
| TOG | 461 | Togo 63-NA | 2005 | 2010 | 1 | 0.61 | 0.47 | 0.79 | 0 | 0.35 | 0.55 |
| TUN | 616 | Tunisia 56-NA | 1991 | 2010 | 1 | 0.61 | 0.73 | 0.93 | 1 | 0.25 | 0.75 |
| TKM | 701 | Turkmenistan 91-NA | 1991 | 2006 | 1 | 0.51 | 0.97 | 0.30 | 1 | 0.99 | 0.88 |
| UGA | 500 | Uganda 86-NA | 2009 | 2010 | 1 | 0.88 | 0.86 | 0.19 | 0 | 0.96 | 0.98 |
| UAE | 696 | United Arab Emirates 71-NA | 1991 | 2010 | 1 | 0.02 | 0.98 | 1.00 | 0 | 0.99 | 0.88 |
| UZB | 704 | Uzbekistan 91-NA | 1991 | 2010 | 1 | 0.75 | 0.98 | 0.21 | 1 | 0.98 | 0.81 |
| DRV | 816 | Vietnam 54-NA | 1991 | 2010 | 1 | 0.62 | 0.98 | 0.71 | 0 | 0.99 | 0.95 |
| YEM | 679 | Yemen 78-NA | 1993 | 2010 | 1 | 0.85 | 0.89 | 0.16 | 1 | 0.96 | 0.62 |
| ZAM | 551 | Zambia 96-NA | 1996 | 2007 | 1 | 0.45 | 0.10 | 0.96 | 0 | 0.90 | 0.88 |
| ZIM | 552 | Zimbabwe 80-NA | 1991 | 2010 | 1 | 0.85 | 0.88 | 0.70 | 1 | 0.97 | 0.83 |

NOTE: The time specification behind the regimes’ names refer to Geddes et al.’s (2014) definition of autocracy and are the basis for determining a regime’s (non-) persistence. NA means that the respective regime was persistent until 2010, the end of their observation. Column 4 and 5 follow von Soest and Grauvogel (2017) and specify the time span covered by the data.

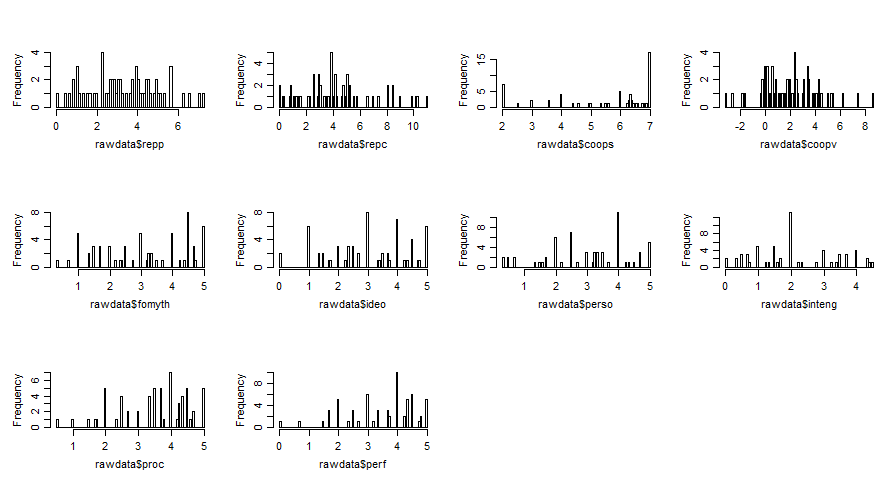


Figure 1: Histograms of the Distribution of the Raw Data

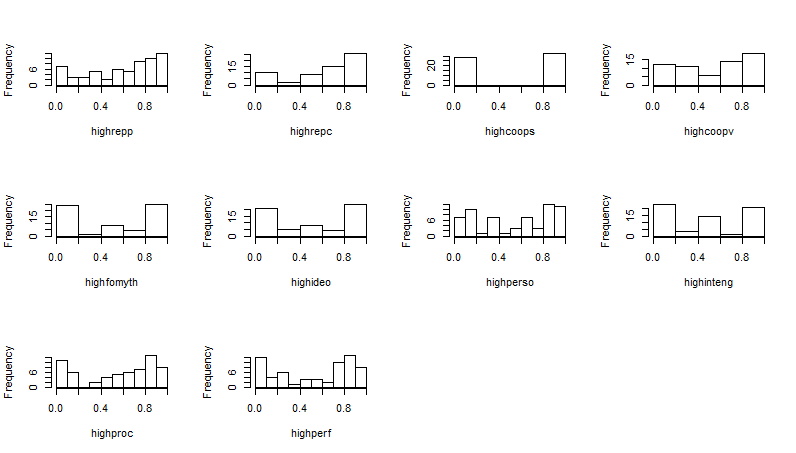


Figure 2: Histograms of the Base Variables and Calibrated Sets

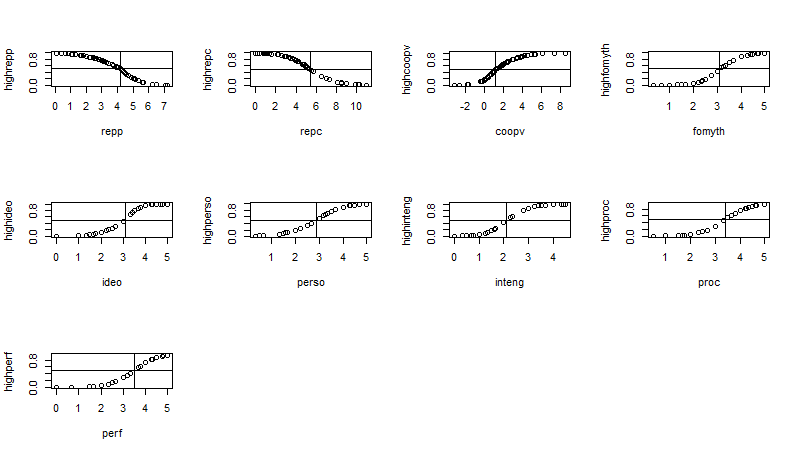


Figure 3: Plots of Fuzzy Sets against Base Variables

# Test of Necessity

Table 3: Parameters of Fit, Necessity for the Outcome Authoritarian Persistence

|  |  |  |  |
| --- | --- | --- | --- |
| **Conditions** | **Consistency** | **Coverage** | **Relevance** |
| repp | 0.58 | 0.79 | 0.76 |
| repc | 0.72 | 0.89 | 0.82 |
| coopv | 0.54 | 0.79 | 0.80 |
| coops | 0.53 | 0.82 | 0.83 |
| legd | 0.79 | 0.87 | 0.72 |
| legs | 0.75 | 0.82 | 0.66 |
| not repp | 0.42 | 0.88 | 0.92 |
| not repc | 0.28 | 0.69 | 0.86 |
| not coopv | 0.46 | 0.86 | 0.90 |
| not coops | 0.47 | 0.83 | 0.87 |
| not legd | 0.21 | 0.69 | 0.90 |
| not legs | 0.25 | 0.82 | 0.94 |

Table 4: Parameters of Fit, Necessity for the Outcome No Authoritarian Persistence

|  |  |  |  |
| --- | --- | --- | --- |
| **Conditions** | **Consistency** | **Coverage** | **Relevance** |
| repp | 0.72 | 0.21 | 0.46 |
| repc | 0.41 | 0.11 | 0.36 |
| coopv | 0.64 | 0.21 | 0.50 |
| coops | 0.54 | 0.19 | 0.54 |
| legd | 0.55 | 0.13 | 0.28 |
| legs | 0.75 | 0.18 | 0.29 |
| not repp | 0.28 | 0.12 | 0.63 |
| not repc | 0.59 | 0.31 | 0.74 |
| not coopv | 0.36 | 0.14 | 0.59 |
| not coops | 0.46 | 0.17 | 0.56 |
| not legd | 0.45 | 0.31 | 0.81 |
| not legs | 0.25 | 0.18 | 0.78 |

# Alternative Solution Formulas

Table 5: Conservtive Solution Formula for the Outcome Authoritarian Persistence

| **Sufficient Paths, Connected by Logical ORa** | **Consistency** | **Cov.rb** | **Cov.ub** |
| --- | --- | --- | --- |
| REPC\*LEGD\*LEGS | 0.90 | 0.54 | 0.09 |
| COOPV\*COOPS\*LEGD\*LEGS | 0.78 | 0.18 | 0.01 |
| REPC\*coopv\*COOPS\*LEGD | 0.91 | 0.21 | 0.02 |
| repp\*COOPS\*LEGD\*LEGS | 0.89 | 0.17 | 0.01 |
| repp\*COOPV\*LEGD\*LEGS | 0.87 | 0.28 | 0.02 |
| REPP\*REPC\*COOPV\*LEGD | 0.90 | 0.29 | 0.02 |
| repp\*REPC\*coopv\*coops\*LEGS | 0.97 | 0.11 | 0.01 |
| REPP\*REPC\*coopv\*coops\*legd\*legs | 0.85 | 0.08 | 0.00 |
| Overall solution | 0.89 | 0.68 |  |

a Capital letters indicate presence, small letters absence, \* denotes logical AND.

b Cov.r = raw coverage; Cov.u = unique coverage.

Table 6: Parsimonious Solution Formula for the Outcome Authoritarian Persistence

| **Sufficient Paths, Connected by Logical ORa** | **Consistency** | **Cov.rb** | **Cov.ub** |
| --- | --- | --- | --- |
| REPC\*coops | 0.95 | 0.88 | 0.08 |
| REPC\*LEGD | 0.91 | 0.68 | 0.04 |
| repp\*LEGD | 0.90 | 0.87 | 0.08 |
| COOPS\*LEGD\*LEGS | 0.85 | 0.82 | 0.04 |
| Overall solution | 0.89 | 0.78 |  |

a Capital letters indicate presence, small letters absence, \* denotes logical AND.

b Cov.r = raw coverage; Cov.u = unique coverage.

# Truth Table, No Authoritarian Persistence

Table 7: Truth Table for the Outcome No Authoritarian Persistence

| **REPP** | **REPC** | **COOPV** | **COOPS** | **LEGD** | **LEGS** | **OUT** | **n** | **incl** | **cases** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0.51122591 | PER |
| 1 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0.49710286 | SEN,TOG |
| 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0.33588295 | MEX |
| 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0.30193096 | THI |
| 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0.28365747 | GAB |
| 1 | 1 | 1 | 1 | 0 | 0 | 0 | 3 | 0.27486908 | CEN,CHA,PAK |
| 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0.26274012 | TUN |
| 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0.25150926 | DRC |
| 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0.25004708 | KYR |
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0.23614829 | BNG |
| 0 | 0 | 1 | 0 | 1 | 1 | 0 | 3 | 0.21824194 | GAM,GHA,ZAM |
| 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0.20552973 | CAM |
| 1 | 1 | 1 | 1 | 1 | 1 | 0 | 3 | 0.19605842 | ZIM,EGY,INS |
| 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0.14515420 | MYA |
| 0 | 1 | 1 | 1 | 1 | 1 | 0 | 3 | 0.13573126 | MAA,TAZ,JOR |
| 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0.11904309 | SYR |
| 1 | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 0.11446957 | CDI,CAO |
| 0 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 0.11196619 | BFO,MZM |
| 1 | 1 | 0 | 1 | 1 | 1 | 0 | 9 | 0.11045048 | BLR,AZE,RWA,ETH,ANG,YEM,TKM,TAJ,UZB |
| 1 | 1 | 0 | 0 | 1 | 1 | 0 | 6 | 0.09913873 | CS,UGA,ERI,ALG,IRN,SAU |
| 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0.09656026 | LAO |
| 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0.08525903 | CON |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0.06760905 | KUW |
| 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0.06730550 | KZK |
| 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0.03364444 | PRK |
| 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0.03324613 | BAH,QAT |
| 0 | 1 | 1 | 0 | 1 | 1 | 0 | 4 | 0.01808934 | SWA,UAE,OMA,MAL |
| 1 | 1 | 1 | 0 | 1 | 1 | 0 | 7 | 0.01764088 | CUB,RUS,MOR,LIB,SUD,CHN,DRV |

(Beck et al. 2001; Cingranelli and Richards 2013; Geddes, Wright, and Frantz 2014; Schmotz 2015; von Soest and Grauvogel 2017)

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