# ECON 3510: Poverty and Economic Development Lecture 11: Politicians I

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### Jones and Olken (2009)

- ▶ A very big question: role of political leaders in shaping a country's trajectory.
- ▶ Difficult to estimate the causal effect: who becomes a leader is endogenous to various factors.
- Jones and Olken (2009) approach the big question by asking: What is the consequence of the successful assassinations of national leaders as opposed to the failed assassinations?
- Why compare successful assassinations to failed ones, rather than to cases with no assassinations at all?
  - Whether an assassination occurs is endogenous. Assassinations often occur during turbulent times.
  - Whether an assassination succeeds may depend on more idiosyncratic factors.

### Data

- ▶ **National leader:** uniquely defined for a country in a year; the most powerful person.
  - Archigos v2.5: 2,440 leaders from 187 countries between 1875–2004.

### **▶** Assassinations:

- Collected from New York Times, Washington Post, and Wall Street Journal;
- Restricted to "serious attempts" in which some weapons were discharged.

#### Outcomes:

- Polity IV: democracy/autocracy measures;
- Archigos: leader transitions; regular vs. irregular (i.e., through coup);
- Correlates of War (COW) dataset: armed conflicts with over 1,000 battle deaths from 1816–2002;
- PRIO/Upssala Armed Conflict dataset: all armed conflicts with over 25 battle deaths since 1946.

## **Summary Statistics**

TABLE 2—ASSASSINATION ATTEMPTS: SUMMARY STATISTICS

|                     |              |            | Probability  | leader killed       | Bystander      | r casualties    |
|---------------------|--------------|------------|--------------|---------------------|----------------|-----------------|
|                     | Observations | Percentage | All attempts | Serious<br>attempts | Mean<br>killed | Mean<br>wounded |
| Type of weapon      |              |            |              |                     |                |                 |
| Gun                 | 161          | 55%        | 28%          | 31%                 | 1.0            | 2.2             |
| Explosive device    | 91           | 31%        | 5%           | 7%                  | 5.8            | 18.2            |
| Knife               | 23           | 8%         | 13%          | 21%                 | 0.3            | 0.4             |
| Other               | 19           | 6%         | 16%          | 18%                 | 1.1            | 0.3             |
| Unknown             | 10           | 3%         | 40%          | 44%                 | 2.0            | 1.3             |
| Location            |              |            |              |                     |                |                 |
| Abroad              | 12           | 4%         | 25%          | 30%                 | 3.6            | 6.5             |
| At home             | 286          | 96%        | 20%          | 23%                 | 2.4            | 6.7             |
| Number of attackers |              |            |              |                     |                |                 |
| Solo                | 132          | 59%        | 24%          | 29%                 | 0.4            | 2.5             |
| Group               | 92           | 41%        | 22%          | 26%                 | 5.6            | 11.0            |
| Total attempts      | 298          | n/a        | 20%          | 24%                 | 2.4            | 6.7             |

### Successful vs. Failed Assassinations

▶ Main specification:

$$y_i = \alpha + \beta \cdot SUCCESS_i + \gamma X_i + \varepsilon_i.$$

*i* indexes a country-year in which an assassination was attempted.

▶ **Identification assumption:**  $SUCCESS_i$  is exogenous conditional on controls  $\mathbf{X}_i$ , i.e.,  $E(\varepsilon_i \mid SUCCESS_i, \mathbf{X}_i) = 0$ .

$$\beta = E[y_i \mid SUCCESS_i = 1, \mathbf{X}_i] - E[y_i \mid SUCCESS_i = 0, \mathbf{X}_i].$$

- Interpretation:  $\beta$  captures the mean *difference* between successful and failed assassinations.
  - The difference can be due to (i) success, (ii) failure, or (iii) both.
  - The authors provide some suggestive evidence to clarify which channel is more important.
  - ullet Nonetheless, rejecting eta=0 would indicate that the outcome of the assassination matters, and thus national leaders matter.
- ► Statistical inference: two approaches.
  - Parametric: OLS robust standard errors, clustered at the country level.
  - (Not Required) Nonparametric: intuitively, test whether the outcomes of two groups have the same distributions; better small sample properties.

## Correlates of Assassination Successes

| Variable                                    | Success           | Failure           | Difference       | <i>p</i> -val on difference |
|---|-------------------|-------------------|------------------|-----------------------------|
| Panel A: Pairwise t-tests of sample balance |                   |                   |                  |                             |
| Democracy dummy                             | 0.362<br>(0.064)  | 0.344<br>(0.035)  | 0.018<br>(0.072) | 0.80                        |
| Change in democracy dummy                   | -0.036 $(0.025)$  | -0.022 $(0.019)$  | -0.013 (0.032)   | 0.67                        |
| War dummy                                   | 0.263<br>(0.059)  | 0.318<br>(0.034)  | -0.055 $(0.068)$ | 0.42                        |
| Change in war                               | 0.036<br>(0.058)  | 0.011<br>(0.034)  | 0.025<br>(0.067) | 0.71                        |
| Log energy use per capita                   | -1.589<br>(0.338) | -1.740<br>(0.180) | 0.152<br>(0.383) | 0.69                        |
| Log population                              | 9.034<br>(0.219)  | 9.526<br>(0.117)  | -0.492 $(0.248)$ | 0.05*                       |
| Age of leader                               | 55.172<br>(1.351) | 52.777<br>(0.866) | 2.395<br>(1.604) | 0.14                        |
| Tenure of leader                            | 9.328<br>(1.440)  | 7.619<br>(0.544)  | 1.709<br>(1.539) | 0.27                        |
| Observations                                | 59                | 194               |                  |                             |

## Correlates of Assassination Successes: Probit Regression

▶ Probit regression:

$$Pr(SUCCESS_a = 1 \mid X_a) = \Phi(\gamma_0 + \gamma_1 X_a).$$

|   | (1)     | (2)     | (3)     | (4)     |
|---|---------|---------|---------|---------|
| Panel B: Multivariate regressions   |         |         |         |         |
| Democracy dummy   | 0.068   | 0.063   | 0.071   | 0.070   |
|   | (0.068) | (0.066) | (0.070) | (0.067) |
| Change in democracy dummy   | -0.039  | -0.050  | -0.033  | -0.036  |
|   | (0.100) | (0.103) | (0.104) | (0.109) |
| War dummy   | 0.057   | 0.063   | 0.061   | 0.067   |
|   | (0.069) | (0.065) | (0.070) | (0.065) |
| Change in war   | -0.024  | -0.017  | -0.025  | -0.013  |
| _   | (0.077) | (0.083) | (0.076) | (0.083) |
| Log energy use per capita   | 0.002   | 0.001   | 0.008   | 0.009   |
|   | (0.014) | (0.014) | (0.015) | (0.015) |
| Log population  | -0.027  | -0.025  | -0.028  | -0.032  |
|   | (0.021) | (0.021) | (0.021) | (0.020) |
| Age of leader   | 0.003   | 0.003   | 0.002   | 0.002   |
|   | (0.003) | (0.003) | (0.003) | (0.003) |
| Tenure of leader  | 0.004   | 0.004   | 0.005   | 0.004   |
|   | (0.003) | (0.003) | (0.003) | (0.003) |
| Weapon FE   | N       | Y       | N       | Y       |
| Region FE   | N       | N       | Y       | Y       |
| Observations  | 208     | 208     | 208     | 208     |
| p-value of F-test on all listed variables                                   | 0.46    | 0.49    | 0.46    | 0.40    |
| <i>p</i> -value of <i>F</i> -test on all listed variables and fixed effects | 0.46    | 0.06*   | 0.59    | 0.01*** |

#### Effects on Institutions

|                                   | Absolute change in POLITY2 dummy (1) | Directional change in<br>POLITY2 dummy<br>(2) | Percentage of "regular"<br>leader transitions in<br>next 20 years<br>(3) |
|-----------------------------------|--------------------------------------|---|--|
| Panel A: Average effects          |                                      |   |  |
| Success                           | 0.091<br>(0.047)                     | 0.079<br>(0.051)                              | 0.111<br>(0.057)   |
| Parm. p-value<br>Nonparm. p-value | 0.06*<br>0.03**                      | 0.12<br>0.02**                                | 0.06*<br>0.18  |
| Observations<br>Data source       | 221<br>Polity IV                     | 221<br>Polity IV                              | 138<br>Archigos  |
| Panel B: Split by regime typ      | pe in year before attempt            |   |  |
| Success × autocracy               |                                      | 0.131<br>(0.055)                              | 0.191<br>(0.085)   |
| Success × democracy               |                                      | -0.012 (0.083)                                | 0.034<br>(0.043)   |
| Autocracy—parm. p                 |                                      | 0.02***                                       | 0.03**   |
| Autocracy—nonparm. p              |                                      | 0.01***                                       | 0.05**   |
| Democracy—parm. p                 |                                      | 0.89  | 0.43   |
| Democracy—nonparm. p              |                                      | 0.13  | 0.96   |
| Observations                      |                                      | 221   | 133  |
| Data source                       | Polity IV                            | Polity IV                                     | Archigos   |

- ▶ Col 1 & 2: look at institutional change from t 1 to t + 1.
  - Col 1: any change from autocracy to democracy or from democracy to autocracy.
  - Col 2: = 1 if democratization; = -1 if autocratization; = 0 if no change.
- Successful assassinations of autocrats produce sustained moves toward democracy.

## Effects on Institutions by Leader Tenure: Directional Change

|                          |                  | All leaders     |                  |                  | Autocrats only   |                    |
|--------------------------|------------------|-----------------|------------------|------------------|------------------|--------------------|
|                          | All (1)          | Tenure ≤ 10 (2) | Tenure > 10 (3)  | All (4)          | Tenure ≤ 10 (5)  | Tenure > 10<br>(6) |
| Panel A: Directional     | change in POI    | LITY2 dummy     |                  |                  |                  |                    |
| 1 year out               | 0.079            | 0.058           | 0.129            | 0.130            | 0.088            | 0.214              |
|                          | (0.051)          | (0.051)         | (0.125)          | (0.057)          | (0.069)          | (0.110)            |
| Parm. <i>p</i> -value    | 0.12             | 0.26            | 0.31             | 0.03**           | 0.21             | 0.06*              |
| Nonparm. <i>p</i> -value | 0.02**           | 0.31            | 0.01***          | 0.01***          | 0.13             | 0.02**             |
| 10 years out             | 0.046            | 0.013           | 0.092            | 0.190            | 0.226            | 0.169              |
|                          | (0.062)          | (0.075)         | (0.146)          | (0.079)          | (0.108)          | (0.132)            |
| Parm. <i>p</i> -value    | 0.46             | 0.86            | 0.53             | 0.02**           | 0.04**           | 0.21               |
| Nonparm. <i>p</i> -value | 0.01**           | 0.12            | 0.03**           | 0.05**           | 0.22             | 0.08*              |
| 20 years out             | -0.003 $(0.091)$ | -0.006 (0.116)  | 0.001<br>(0.154) | 0.023<br>(0.090) | 0.091<br>(0.117) | 0.013<br>(0.157)   |
| Parm. <i>p</i> -value    | 0.98             | 0.96            | 0.99             | 0.80             | 0.44             | 0.94               |
| Nonparm. <i>p</i> -value | 0.86             | 0.78            | 0.72             | 0.59             | 0.75             | 0.60               |

## Effects on Institutions by Leader Tenure: Regular Transitions

| Panel B: Percentage of   | of transitions by | v "regular" me | ans     |         |         |         |
|--------------------------|-------------------|----------------|---------|---------|---------|---------|
| 1–10 years out           | 0.099             | 0.126          | 0.087   | 0.186   | 0.197   | 0.102   |
|                          | (0.077)           | (0.089)        | (0.243) | (0.113) | (0.145) | (0.255) |
| Parm. <i>p</i> -value    | 0.21              | 0.16           | 0.73    | 0.11    | 0.18    | 0.70    |
| Nonparm. <i>p</i> -value | 0.35              | 0.18           | 0.53    | 0.16    | 0.25    | 0.28    |
| 1–20 years out           | 0.111             | 0.116          | 0.274   | 0.165   | 0.147   | 0.306   |
|                          | (0.057)           | (0.063)        | (0.181) | (0.095) | (0.113) | (0.227) |
| Parm. <i>p</i> -value    | 0.06*             | 0.07*          | 0.15    | 0.09*   | 0.20    | 0.20    |
| Nonparm. <i>p</i> -value | 0.18              | 0.23           | 0.03    | 0.05**  | 0.15    | 0.03**  |
| 11–20 years out          | 0.119             | 0.1            | 0.368   | 0.208   | 0.181   | 0.422   |
|                          | (0.068)           | (0.072)        | (0.246) | (0.107) | (0.110) | (0.275) |
| Parm. <i>p</i> -value    | 0.09*             | 0.17           | 0.16    | 0.06*   | 0.11    | 0.15    |
| Nonparm. <i>p</i> -value | 0.25              | 0.59           | 0.04    | 0.03**  | 0.16    | 0.05**  |

## Effects on Wars

|                                   | Gleditsch-COW dataset<br>1875–2002 | Gleditsch-COW dataset<br>1946–2002 | PRIO/Uppsala dataset |
|-----------------------------------|------------------------------------|------------------------------------|----------------------|
|                                   |                                    |                                    | 1946–2002            |
|                                   | (1)                                | (2)                                | (3)                  |
| Panel A: Average effects          |                                    |                                    |                      |
| Success                           | -0.072                             | 0.041                              | 0.162                |
|                                   | (0.068)                            | (0.093)                            | (0.071)              |
| Parm. p-value                     | 0.29                               | 0.66                               | 0.02**               |
| Nonparm. p-value                  | 0.57                               | 0.83                               | 0.03**               |
| Observations                      | 223                                | 116                                | 116                  |
| Data source                       | Gleditsch                          | Gleditsch                          | PRIO                 |
| Panel B: Split by war status in y | ear before attempt                 |                                    |                      |
| Success × intense war             | -0.255                             | -0.103                             | -0.110               |
|                                   | (0.144)                            | (0.257)                            | (0.294)              |
| Success × moderate war            |                                    |                                    | 0.334                |
|                                   |                                    |                                    | (0.163)              |
| Success × not at war              | -0.024                             | 0.020                              | 0.070                |
|                                   | (0.068)                            | (0.086)                            | (0.057)              |
| Intense war—parm. p-value         | 0.08*                              | 0.69                               | 0.71                 |
| Intense war-nonparm. p-value      | 0.13                               | 1.00                               | 0.69                 |
| Moderate war-parm. p-value        | N/A                                | N/A                                | 0.05**               |
| Moderate war—nonparm.  p-value    | N/A                                | N/A                                | 0.13                 |
| Not at war—parm. p-value          | 0.73                               | 0.82                               | 0.22                 |
| Not at war—nonparm. p-value       | 0.62                               | 0.71                               | 0.21                 |
| Observations                      | 222                                | 116                                | 116                  |
| Data source                       | Gleditsch                          | Gleditsch                          | PRIO                 |
|                                   |                                    |                                    |                      |

### Successes or Failures?

- ▶ Previous results are for the differences between successful and failed assassinations.
- ▶ The authors explore whether successes or failures play a bigger role.
- To do so, they have to compare country-years with successful/failed cases with those where there were no assassinations at all.
- ► The key challenge is that assassinations occurred endogenously. To partially deal with this, they use propensity score matching (PSM) to select comparable country-years without assassinations.
- ▶ Procedures:
  - Estimate a Probit model  $Pr(ATTEMPT_{ct} = 1 \mid \mathbf{X}_{ct}) = \Phi(\boldsymbol{\rho}\mathbf{X}_{ct})$ . Obtain predicted attempt probability  $\hat{p}_{ct} = \Phi(\hat{\boldsymbol{\rho}}\mathbf{X}_{ct})$
  - Block observations with similar  $\hat{p}_{ct}$ .
  - Estimate

$$y_{ib} = \underbrace{\alpha_b}_{\text{block FE}} + \beta_s \cdot SUCCESS_{ib} + \beta_f FAILURE_{ib} + \gamma \mathbf{X}_{ib} + \varepsilon_{ib}.$$

With  $\alpha_b$ , it exploits within-block variation where countries have similar  $\hat{p}_{ct}$ .

## Correlates of Attempts

|  | (1)                | (2)             | (3)                 | (4)              | (5)                  | (6)                 | (7)                    | (8)                   |
|--|--------------------|-----------------|---------------------|------------------|----------------------|---------------------|------------------------|-----------------------|
| Democracy dummy                            | -0.007*<br>(0.004) |                 |                     |                  |                      |                     |                        | -0.0002<br>(0.0034)   |
| Change in democracy dummy                  |                    | -0.012* (0.007) |                     |                  |                      |                     |                        | -0.009 $(0.007)$      |
| War dummy                                  |                    |                 | 0.028***<br>(0.006) |                  |                      |                     |                        | 0.025***<br>(0.007)   |
| Change in war                              |                    |                 |                     | 0.004<br>(0.006) |                      |                     |                        | -0.007 $(0.005)$      |
| Log energy use per capita                  |                    |                 |                     |                  | -0.003***<br>(0.001) |                     |                        | -0.002***<br>(0.001)  |
| Log population                             |                    |                 |                     |                  |                      | 0.005***<br>(0.001) |                        | 0.004***<br>(0.001)   |
| Age of leader                              |                    |                 |                     |                  |                      |                     | -0.00022*<br>(0.00012) | -0.0003**<br>(0.0001) |
| Tenure of leader                           |                    |                 |                     |                  |                      |                     |                        | $-0.0001 \ (0.0002)$  |
| Observations <i>p</i> -value of regression | 11,171<br>0.08*    | 10,763<br>0.07* | 11,671<br>0.00***   | 11,258<br>0.47   | 9,664<br>0.00***     | 10,607<br>0.00***   | 12,019<br>0.08*        | 8,904<br>0.00***      |

## Effects on Institutions: Successes vs. Failures

|  | Absolute change in POLITY2 dummy |   |                     | nal change in<br>Y2 dummy                               | Percent regular leader<br>transitions 1–20 years out |   |
|--|----------------------------------|---|---------------------|---|--|---|
|  | No controls                      | Adding controls and propensity score stratification (2) | No controls         | Adding controls and propensity score stratification (4) | No controls (5)                                      | Adding<br>controls and<br>propensity score<br>stratification<br>(6) |
| Panel A: Average effects                           |                                  |   |                     |   |  |   |
| Success  | 0.098<br>(0.042)                 | 0.100<br>(0.042)  | 0.066<br>(0.047)    | 0.060<br>(0.045)  | 0.071<br>(0.040)                                     | 0.112<br>(0.042)  |
| Failure  | 0.006<br>(0.018)                 | 0.005<br>(0.017)  | -0.017 (0.019)      | -0.021 (0.019)  | -0.071 (0.041)                                       | -0.040 (0.024)  |
| Success <i>p</i> -value<br>Failure <i>p</i> -value | 0.02**<br>0.72                   | 0.02**<br>0.76  | 0.17<br>0.39        | 0.18<br>0.33  | 0.08*<br>0.08*                                       | 0.01***<br>0.10*  |
| Observations<br>Data source                        | 10,932<br>Polity IV              | 10,932<br>Polity IV                                     | 10,932<br>Polity IV | 10,932<br>Polity IV                                     | 5,979<br>Archigos                                    | 5,979<br>Archigos   |

## Effects on Institutions: Successes vs. Failures

| Panel B: Split by regime type in | year before | attempt |           |           |          |          |
|----------------------------------|-------------|---------|-----------|-----------|----------|----------|
| Success × autocracy              | _           | _       | 0.125     | 0.125     | 0.155    | 0.212    |
|                                  | _           | _       | (0.057)   | (0.056)   | (0.059)  | (0.054)  |
| Failure × autocracy              | _           | _       | -0.013    | -0.009    | -0.074   | -0.052   |
|                                  | _           | _       | (0.016)   | (0.016)   | (0.052)  | (0.040)  |
| Success × democracy              | _           | _       | -0.051    | -0.054    | 0.023    | 0.007    |
|                                  | _           | _       | (0.066)   | (0.063)   | (0.034)  | (0.042)  |
| Failure × democracy              | _           | _       | -0.042    | -0.039    | -0.025   | -0.028   |
|                                  | _           | _       | (0.042)   | (0.042)   | (0.038)  | (0.032)  |
| Autocracy p-value—success        | _           | _       | 0.03**    | 0.03**    | 0.01**   | 0.00***  |
| Autocracy p-value—failure        | _           | _       | 0.42      | 0.59      | 0.16     | 0.20     |
| Democracy p-value—success        | _           | _       | 0.44      | 0.39      | 0.50     | 0.87     |
| Democracy p-value—failure        | _           | _       | 0.32      | 0.36      | 0.51     | 0.38     |
| Observations                     |             |         | 10,932    | 10,932    | 5,573    | 5,573    |
| Data source                      |             |         | Polity IV | Polity IV | Archigos | Archigos |
|                                  |             |         |           |           |          |          |

### Effects on Conflict: Successes vs. Failures

TABLE 11—SEPARATING IMPACTS OF SUCCESSES AND FAILURES ON CONFLICT

|                          |                  | Gleditsch-COW dataset<br>1875–2002                                  |                  | Gleditsch-COW dataset<br>1946–2002                                  |                  | PRIO/Uppsala dataset<br>1946–2002                                   |  |
|--------------------------|------------------|---|------------------|---|------------------|---|--|
|                          | No controls      | Adding controls<br>and propensity<br>score<br>stratification<br>(2) | No controls      | Adding controls<br>and propensity<br>score<br>stratification<br>(4) | No controls      | Adding controls<br>and propensity<br>score<br>stratification<br>(6) |  |
| Panel A: Average effects |                  |   |                  |   |                  |   |  |
| Success                  | -0.069 (0.060)   | -0.024 (0.049)  | 0.035<br>(0.075) | 0.019<br>(0.068)  | 0.080<br>(0.062) | 0.076<br>(0.061)  |  |
| Failure                  | 0.001<br>(0.038) | 0.054<br>(0.034)  | -0.022 $(0.047)$ | 0.004<br>(0.042)  | -0.056 $(0.037)$ | -0.042 (0.038)  |  |
| Success p-value          | 0.25             | 0.63  | 0.64             | 0.79  | 0.20             | 0.21  |  |
| Failure <i>p</i> -value  | 0.98             | 0.12  | 0.65             | 0.92  | 0.13             | 0.27  |  |
| Observations             | 11,286           | 11,286  | 7,183            | 7,183   | 7,183            | 7,183   |  |
| Data source              | Gleditsch        | Gleditsch   | Gleditsch        | Gleditsch   | PRIO             | PRIO  |  |

## Effects on Conflict: Successes vs. Failures

| Panel B: Split by war status in y  | ear before atte     | empt                |                    |                    |                  |                  |
|--|---------------------|---------------------|--------------------|--------------------|------------------|------------------|
| $Success \times intense war$   | -0.248 (0.125)      | -0.249 (0.123)      | -0.095 (0.219)     | -0.106 (0.226)     | -0.044 (0.272)   | -0.038 $(0.295)$ |
| Failure × intense war  | 0.006<br>(0.063)    | 0.011<br>(0.060)    | -0.042 (0.081)     | -0.028 (0.084)     | 0.059<br>(0.072) | 0.071<br>(0.075) |
| $Success \times moderate\ war$   |                     |                     |                    |                    | 0.208<br>(0.137) | 0.201<br>(0.144) |
| Failure $\times$ moderate war  |                     |                     |                    |                    | -0.091 (0.074)   | -0.094 (0.067)   |
| Success $\times$ not at war  | 0.066<br>(0.051)    | 0.056<br>(0.050)    | 0.074<br>(0.066)   | 0.044<br>(0.067)   | 0.070<br>(0.055) | 0.043<br>(0.056) |
| Failure $\times$ not at war  | 0.104<br>(0.043)    | 0.072<br>(0.039)    | 0.049<br>(0.041)   | 0.016<br>(0.040)   | 0.036<br>(0.035) | 0.007<br>(0.035) |
| Intense war <i>p</i> -value—success Intense war <i>p</i> -value—failure      | 0.05**<br>0.93      | 0.04**<br>0.85      | 0.67<br>0.60       | 0.64<br>0.74       | 0.87<br>0.42     | 0.90<br>0.34     |
| Moderate war <i>p</i> -value—success<br>Moderate war <i>p</i> -value—failure |                     |                     |                    |                    | 0.13<br>0.22     | 0.16<br>0.16     |
| No war <i>p</i> -value—success<br>No war <i>p</i> -value—failure             | 0.20<br>0.02**      | 0.27<br>0.07*       | 0.27<br>0.23       | 0.52<br>0.70       | 0.21<br>0.32     | 0.44<br>0.83     |
| Observations<br>Data source  | 11,286<br>Gleditsch | 11,286<br>Gleditsch | 7,183<br>Gleditsch | 7,183<br>Gleditsch | 7,183<br>PRIO    | 7,183<br>PRIO    |

## References I

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