

Arms and Electoral Influence: How Arms Deals with Autocracies Shape Defense Contracting in the United States

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Abstract

Arms deals with U.S. allies, especially autocratic allies, facilitate high and stable defense contracting in swing states. U.S. leaders make arms deals to award more defense contracts in periods of low demand. Autocratic alliance protégés have more need and political flexibility to strike arms deals near elections. I examine these claims by analyzing the electoral determinants of defense contracting and arms export deals by the United States. First, I detail electoral cycles in arms deals between the United States and its allies. I then link defense contract awards and arms deals with a joint model. Finally, I examine sectoral differences in weapons deals and contracting. The results show how electoral competition reshapes international security cooperation.

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1 Introduction

In 1972, the Nixon administration struck ten different deals to transfer or sell arms to Brazil. Over the next four years, Brazil's military dictatorship received 500 M-113 armoured personnel carriers, five destroyers, seven submarines, and eight S-2E Tracker anti-submarine warfare aircraft. These deals came while Nixon sought reelection and subsequent deliveries continued after his 1974 resignation.

Similar events took place in 2012, when Saudi Arabia ordered a large arms package from the Obama administration.¹ Twelve deals included 400 Harpoon anti-ship missiles, 12 Apache attack helicopters for the Saudi National Guard, and 63 K-6 120mm mortars, along with parts for F-15 aircraft, guided bombs, and other helicopters. Deliveries of these systems and other weapons spanned the next eight years, including the 2015 Saudi intervention in the Yemeni civil war.²

These examples reflect a more general pattern, where electoral competition in the United States encourages arms deals with allies, particularly autocracies. Arms deals help leaders use defense contracting to improve and stabilize economic conditions in electorally competitive areas (Tufte, 1978; Mintz, 1988; Mayer, 1995; DeRouen Jr and Heo, 2000; Becker, 2021). In this instance, arms deals facilitate a high and stable flow of defense contracts to swing states, even as Congressional budgeting shifts. Electoral cycles in arms deals thus shape economic conditions and electoral competition.

Alliance protégés provide a key market for arms sales in part because leaders can justify transfers. Allies receive more arms from their patrons near elections because they control import decisions and receive security benefits. Autocratic allies are especially important because they receive more arms than other partners (McManus and Yarhi-Milo, 2017) and autocrats have few constraints on accommodating electoral cycles.

¹Obama first announced the deal in 2010.

²All deal information from (Sto, 2022).

I scrutinize my argument connecting defense contracting, autocratic allies and arms export cycles in three steps. First, I examine how electoral competition shapes contract awards in an analysis from 2000 to 2020. The first analysis finds that outside of war years, swing states receive more contracts and have less variation in prime contracting dollars. I then analyze U.S. arms deals from 1950 to 2019, and show that arms deals with autocratic allies increase as presidential elections approach, while dealmaking with democratic allies remains consistent. Finally, I connect the contracting and arms deals models in a joint model, and link deals and arms contracts within specific sectors.

The argument and analysis focus on the United States because it is a leading arms exporter, maintains expansive alliance ties, and there is prior evidence that leaders use defense contracting cycles for electoral advantage. While other countries with smaller economies and defense industries might behave in similar ways, deals and contracting cycles will be weaker or absent. Regardless the pivotal economic and security roles of the United States make understanding the economic and security consequences of U.S. political budget cycles worthwhile. Furthermore, other states might leverage security cooperation to facilitate different policy cycles.

The argument and findings address three salient issues in international relations theory and practice. First, they reveal that efforts to manipulate domestic economic conditions with defense contracting have international security consequences. Just as domestic political business cycles in large countries like the United States reshape international economic exchanges and have knock-on effects in other countries (Kayser, 2006, 2009), electoral competition alters security cooperation.

Second, this paper provides new insight into alliance bargaining and statecraft. Scholars often address coercion and divergent preferences in alliances (Oatley, 2015; Becker et al., 2023). But as Baldwin (2020) notes, statecraft includes positive inducements and negative sanctions. This paper highlights positive statecraft by alliance protégés, who use arms deals to cooperate with their patron. As a result, it connects with prior work on issue linkage in alliance manage-

ment, including studies of alliance formation (Poast, 2012) and credibility (Davis, 2008; Poast, 2013). In this instance, patron leader and protégé incentives align.

Finally, my results complement prior findings that foreign states' economic policies impact electoral competition. Kim and Margalit (2021) find that Chinese tariffs reduced Republican vote share in the 2018 midterm elections by targeting industries in competitive districts. In the same way, Chyzh and Urbatsch (2021) find that Chinese soy tariffs hurt Republican congressional candidates in soy-producing areas. My argument inverts these findings by examining how security cooperation facilitates electoral budget cycles and helps incumbents. As a result, small states exert big indirect influence on alliance patrons (Keohane, 1971).

The paper proceeds as follows. To start, I outline an argument detailing the international consequences of political business cycles in the United States, the role of defense contracting in those cycles, and the consequences for arms deals. I then test the process in three steps. First, I model the mean and variance of contract awards as a function of electoral competition to show that swing states have larger and more stable defense contracting flows. I then demonstrate that arms exports from the United States to allies increase more as presidential elections approach. Third, I estimate a joint Bayesian model of the process and link contracts with deals for specific weapons. The last section discusses the results and offers concluding thoughts.

2 Argument

This argument explains how international arms deals facilitate domestic political budget cycles. First, I detail constraints on aggregate budget cycle tools. I then discuss how presidential control and Congressional influence makes defense contracting an attractive way to manipulate economic conditions. Arms deals with allies can accelerate defense contracting awards. Among U.S. allies, autocracies with few constraints on their leaders and strong security motivations to curry favor by accepting arms are especially likely to make arms deals around elections.

Electoral considerations impact policy (Nordhaus, 1975).³ When leaders want to win office, they can use policy tools to bolster economic growth and win over voters. Leaders create political budget cycles by using fiscal and monetary policy to increase economic growth near elections and retain power for themselves or their party (Tufte, 1978; Rogoff, 1987). The composition and magnitude of these cycles varies. For example, strong central bank interdependence and fixed exchange rates make fiscal cycles more likely (Clark and Hallerberg, 2000).

How leaders bolster economic growth vary with national political institutions. Federal Reserve independence limits political influence on monetary policy in the United States, for instance.⁴ Recent scholarship emphasizes specific policy cycles because leaders struggle to manipulate aggregate economic instruments where they have more direct influence. In fiscal policy, aggregate budgets often give leaders limited spending discretion.

Limited flexibility with aggregate instruments encourages democratic leaders to use targeted policies. Targeting maximizes the electoral impact of finite resources. Many spending shifts can be narrowly tailored (Dubois, 2016, pg. 248). Leaders also employ other policies such as trade disputes (Conconi et al., 2017), labor agreements (Ahlquist, 2010) and land reform (Philips, 2020) to win support in key constituencies.

Scholars have long speculated that defense spending is a useful instrument for budget cycles (e.g. Tufte (1978); Mintz (1988)). Executive leaders often have more discretion in defense resource allocation, and defense spending has economic ramifications. Whitten and Williams (2011) note that defense spending can serve social welfare goals and Becker (2021) finds that unemployment in NATO members encourages leaders to shift spending from equipment to personnel.

³See Dubois (2016) for a review of the vast political budget cycle literature.

⁴Both Lyndon Johnson and Donald Trump had limited ability to browbeat Federal Reserve Chairs into changing monetary. Johnson sought looser monetary policy before the 1968 presidential election, but Fed Chair William McChesney Martin continued to tighten policy. Trump's tweeted demands for looser monetary policy to increase growth before the 2020 election similarly had little impact on Jerome Powell.

Recent studies in the United States argue that defense budgets are poor political tools, however, as Congress makes allocations two years ahead. This shifted attention towards defense contracting, as leaders control contract timing and disbursement (Mayer, 1995; DeRouen Jr and Heo, 2000). Giving contracts also allows leaders to focus on key constituencies and claim credit for awards (DeRouen Jr and Heo, 2000). Leaders generally target spending changes near elections to electorally important areas like swing states (Kriner and Reeves, 2015), and spending increases support for incumbents (Kriner and Reeves, 2012).

The Congressional budget process sometimes hinders political contracting stability. Leaders can allocate contracts within the budget, but finding additional funds is harder. Most defense programs operate on annual budget allocations. Congress rarely authorizes multi-year procurement (CITE CRS HERE). As a result, program disbursements can vary from year to year, especially for smaller outputs like munitions and missiles.

Moreover, when leaders want to award more contracts, the U.S. military may lack absorption capacity to incorporate outputs. Increased supply for defense contracting does not respond to military demand. This makes finding other buyers who are less constrained by the U.S. budget process a critical task.

When leaders seek increased defense contracting, foreign markets are an alternative source of demand. Either foreign countries can take new production, or U.S. leaders can sell or transfer old equipment to partners to make room in U.S. stocks. Using defense contracting for political gains thus has international spillovers.⁵

Crucially, leaders only need deals and confirmed orders to start up defense contracting. Final transfers can come years later, and do in many cases. Arms export deals are more likely

⁵Other work examines the international economic consequences of budget cycles. Fiscal and monetary policy shifts impact currency prices and economic growth, which then alters trade and financial ties. Economic interdependence leads to correlated economic growth across countries (Artis and Zhang, 1999; Kayser, 2006) and increases the global economic influence of large economies. Ito (1991) finds that U.S. elections increase economic growth in Japan, while Thompson and Zuk (1983) uncover some evidence of similar cycles in advanced industrial economies. Foerster and Schmitz (1997) argue that U.S. electoral cycles impact international stock returns.

to follow electoral cycles than transfers of finished products, as production times for defense goods vary widely. Large platforms like ships, tanks and warplanes can take years to assemble, while munitions and smaller platforms take less time.

Efforts to provide additional defense contracts are more salient in peacetime. During active conflict, elevated demand for munitions, platforms and other arms creates substantial contracting demand. Outside of conflict, arms deals are less likely to translate into increased defense contracting.

When U.S. leaders attempt to use arms deals for defense contracting, not all countries are useful partners. U.S. allies are more likely to take arms exports than other states. Security partners are a pivotal outlet because alliances facilitate security, economic and political cooperation. The United States often transfers or sells arms to alliance protégés, and some allies have means and motivation to strike arms deals at helpful points in the electoral cycle.

2.1 Alliances and U.S. Arms Deals

Asymmetric alliances between large and small states, like those between the United States and its allies, are grand bargains. In general larger patrons protect smaller protégés in exchange for foreign policy concessions (Morrow, 1991). While patrons increase their foreign policy influence, junior alliance members garner protection from external threats and sacrifice some foreign policy autonomy.

U.S. allies are an obvious market for deals to feed defense contracting, in part because established channels reduce start-up costs and facilitate cumulative deals.⁶ Thurner et al. (2019) find that while the relative importance of security and economic factors fluctuates, alliances consistently increase arms transfers. Common security interests and economic integration of defense industries create economic and security ties that encourage arms trade (Bitzinger,

⁶I focus here on formal and informal allies, because formal treaties like NATO are not the only U.S. security commitments. Taiwan, Israel and Saudi Arabia have informal security guarantees and often receive U.S. arms. (Yarhi-Milo, Lanoszka and Cooper, 2016)

1994). Defense industry integration generates trade in intermediate defense goods (Brooks, 2005). U.S. allies use weapons, systems and doctrines that facilitate deals for additional arms.

Allies are more likely than other states to make arms deals, and autocratic allies are especially likely to make arms deals near elections. The security externalities of arms transfers constrain electoral cycles in arms exports to non-allies. U.S. elites will be less willing to increase the capability of states with fewer common interests, even if it facilitates contracting cycles.

Competing elites are also more likely to object to arms deals outside alliances. Leaders could face electoral costs if other elites publicly criticize a deal (Saunders, 2022). Arms transfers to non-allies could face greater opposition scrutiny near elections, leading presidents to forestall criticism by forgoing contentious transfers. Limited defense industry cooperation further constrains exports outside alliances, while allies with defense industrial ties can receive intermediate goods as well.

Allied leaders also benefit from arms deals around elections, because deals curry favor with an alliance patron, bolster military capabilities and deepen perceived commitment. Helping patron leaders with arms deals will dispose them more favorably towards an ally. Allies increase their military capabilities with new arms as well, which can make their fighting forces more effective. Finally, allies gain confidence in their patron's commitment when deals become deliveries because arms exports are a costly signal (McManus and Yarhi-Milo, 2017).

Arms deals are therefore positive statecraft by allies. States often use purchases and transfers to increase their political influence (Baldwin, 2020, pg. 42-3). Ikenberry and Grieco (2003, pg. 184-5) note that states often use direct transfers to attract and sustain security commitments.

Moreover, protégés do not always pay for U.S. arms. The United States often subsidizes or gifts arms transfers through foreign military sales programs. While these still count as arms exports, they impose few immediate costs on recipients. Alliances make such subsidized transfers easier to justify to other elites, as they promote common security interests.

2.2 *Arms Deals with Autocratic Allies*

While all allies could benefit from U.S. arms, autocratic allied leaders are more likely to make arms deals near elections. Autocracies both the means and motivation to make arms deals. These leaders have fewer domestic political constraints, which increases their budget and policy flexibility. They also have stronger security motivations to use arms deals to improve relations with the United States, because arms transfers are central to U.S. security guarantees to autocracies.

Allied leaders must have the political freedom to make arms deals. Governments are the customer for most arms sales or transfers, so they generally have some latitude to take arms.⁷ At the same time, not every regime is equally free to make arms deals.

Autocratic allies of the United States have greater political flexibility to make arms deals around elections than democracies. Democratic leaders who might face media or elite scrutiny of deals for U.S. arms. Media or elites might object to spending on arms, competition for domestic arms manufacturers, or excessive alignment with the United States.

Autocrats are less constrained. Even if other domestic actors in an autocracy are opposed to additional outlays on U.S. arms, they have few ways to constrain the leader.⁸ Media scrutiny of deals is also less likely to occur or challenge an autocrats power base.

Autocrats also strike deals to bolster their security. Arms transfers are more central to credible U.S. commitments to autocracies. The United States prefers “offstage” signals of support for autocrats, rather than public demonstrations of commitment (McManus and Yarhi-Milo, 2017). Arms transfers are a pivotal offstage signal and sometimes substitute entirely for formal security guarantees (Yarhi-Milo, Lanoszka and Cooper, 2016). When arms are the core of how the U.S. provides security, autocrats will be more willing to make arms deals that increase military capabilities and signal continued alignment with the United States.

⁷This mirrors how political control of firms increases trade policy flexibility (Davis, Fuchs and Johnson, 2019).

⁸This changes when opponents of U.S. arms deals are part of the autocrats power base.

Autocrats also have fewer other tools to curry favor with U.S. leaders. Formal alliances might promote democratization (Gibler and Wolford, 2006; Warren, 2016). The U.S. public dislikes alliances with autocracies (Alley, 2022), so autocrats have less capacity to pursue deeper ties in other areas. The net result is that arms deals are central to U.S. ties with autocratic security partners, so autocrats are more likely to make arms deals near elections.

This argument is agnostic about whether allies make a conscious decision to help political budget cycles by making arms deals. While they want improve their alliance relationship, U.S. allies need not choose to accommodate electoral cycles in defense contracting. Allies may receive better terms and more financial support to take additional goods, or take transfers or surplus materiel as a deliberate favor to leaders who have supported their foreign policy interests.

A potential objection to this argument is that striking arms deals with autocrats might be more costly near elections for U.S. leaders, because political opponents could criticize them for it. In this telling, opposition elites can make arms deals a more “front stage” signal than U.S. leaders would like. Even if this applies, U.S. leaders may still benefit, as arms deals provide concentrated benefits, while alliance critics are more diffuse.⁹ Opponents thus face collective action problems that beneficiaries of deals and corresponding contracts do not. When contracts focus on electorally salient areas, leaders can expect that the benefits outweigh any costs.

The result of this process is high and stable defense contracting in swing states. This expectation diverges from classic electoral cycles arguments that emphasize new policies near elections. One way leaders ensure this is by striking more arms deals as elections approach, especially with autocratic alliance protégés. Arms deals thus shape electoral competition in the United States.

⁹Another reason this may not work is that deal announcements sometimes precede final orders by years.

2.3 *Implications*

The argument generates several testable implications, about U.S. alliances, arms deals and defense contracting. Again, this argument applies best and perhaps exclusively to the United States. Arms deal cycles and defense contracting in swing states are the result of a large defense industry, many security commitments and the peculiarities of the electoral college. Fixed election scheduling further reduces endogeneity between policy decisions and election timing. Other leaders may behave in similar ways within their specific electoral institutions, however.

The first hypothesis predicts electoral cycles in arms deals, especially to autocratic allies. Democratic allies will be less likely to make cyclical arms deals. As a result, greater proximity to presidential elections will increase arms deals with autocratic allied states.

ARMS DEALS HYPOTHESIS: AS TIME TO A PRESIDENTIAL ELECTION DECREASES, U.S.

ARMS DEALS WITH AUTOCRATIC ALLIES WILL INCREASE.

Second, I expect that arms deals increase contract awards. Striking deals allows leaders to award contracts to areas that might otherwise lose out in the regular budget process.

DEALS AND CONTRACTS HYPOTHESIS: AS ARMS DEALS INCREASE, VARIANCE IN SWING

STATE CONTRACT AWARDS WILL DECREASE.

In the following, I examine each of these hypotheses. In the first analysis, I use a series of descriptive data and single-outcome statistical models to illustrate each step in the process. This starts with descriptive data on defense contracting from 2000 to 2020, then shows how arms exports to allies track U.S. electoral cycles, and ends with a model of electoral cycles in U.S. trade. After that, I test the third deals and contracts hypothesis by unifying the different outcomes in Bayesian model. The joint model captures the process whereby arms deals increase the association between electoral competition and defense contracting awards.

3 Arms Transfers and Presidential Elections

The arms deals hypothesis predicts electoral cycles in U.S. arms deals with autocratic allies. To test this hypothesis, I model U.S. arms deals from 1951 to 2014 using deals data from the SIPRI Arms Transfer Database (SIPRI, 2021). The outcome in this panel dataset of all states outside the United States is the annual count of deals, based on SIPRI's trade register. This section presents count data regression estimates of annual arms deals.

I analyze arms deals rather than observed arms transfers for three reasons. First, elites can announce arms deals and related contracts immediately. Secondly, deliveries can take years after a deal is announced, even for second-hand or aid transfers of existing equipment. Finally, deliveries often space out the total value of a shipment over several years, especially for deals with many weapons or larger platforms.

The argument suggests that three variables driving U.S. arms deals. The first is electoral competition, which I measure with an indicator of the number of years to a presidential election. The second key factor is whether a country is a U.S. ally. I measure alliance status with a binary indicator of whether a country is a formal U.S. treaty ally using data from the ATOP project (Leeds et al., 2002), as well as one of three states that have not always had a formal treaty commitment but are widely seen as U.S. allies with implicit security guarantees; Israel, Taiwan and Saudi Arabia. I include informal allies because in some of these cases arms substitute for a formal alliance, but the United States is still attempting to ensure partner security (Yarhi-Milo, Lanoszka and Cooper, 2016). Finally, I measure country democracy using the VDem project's polyarchy measure (Coppedge, Alvarez and Maldonado, 2008). I interact all three of these variables to predict arms deals.

To estimate how alliances, democracy and election timing shape arms deals, I use a Poisson model. This fits the annual count of arms deals well. To preserve compatibility with a later joint model, I use Bayesian estimation with the `brms` package for `R` (Bürkner, 2017). I show

in the appendix that using a Gaussian outcome gives similar inferences.

Along with the three key independent variables, I adjust for other factors that are correlated with arms deals, alliances, and democracy. The first control variable is a binary indicator of Cold War years, as more U.S. allies were autocratic during this period. I also adjust for EU membership as a potential constraint on some states. Further country-level controls include logged GDP, population, and distance from the United States, as well as a binary indicator of common language. Finally, I adjust for presidential partisanship with a dummy indicator of years with a Republican president.

3.1 Results

Because interpreting coefficients in triple interactions is challenging, I summarize the interaction of alliances, democracy, and presidential election proximity in Figure 1.¹⁰ This figure plots predicted arms deals based on proximity to an election and whether a state is a U.S. ally or not. Each facet sets recipient democracy at the minimum, first quartile, median, third quartile, and maximum.

There are two key inferences in Figure 1. First, the United States makes more arms deals with allied states than non-allied states, regardless of regime type. Predicted deals with non-allied states are low and basically constant across the different levels of democracy. The impact of an alliance on arms deals is much greater for autocracies than democracies, however, which is consistent with (McManus and Yarhi-Milo, 2017). U.S. allies with minimal polyarchy scores receive one more arms deal a year than states with similar democracy, all else equal. Fully democratic U.S. allies receive .4 deals more in expectation.

The second inference is that electoral cycles in arms deals are present for autocratic allies and absent for democratic allies. When allied polyarchy is at the minimum value, predicted arms deals rise from 1.6 to 1.95 throughout the presidential election cycle. Hypothesis tests

¹⁰See the appendix for coefficient estimates.

Elections and Arms Deals

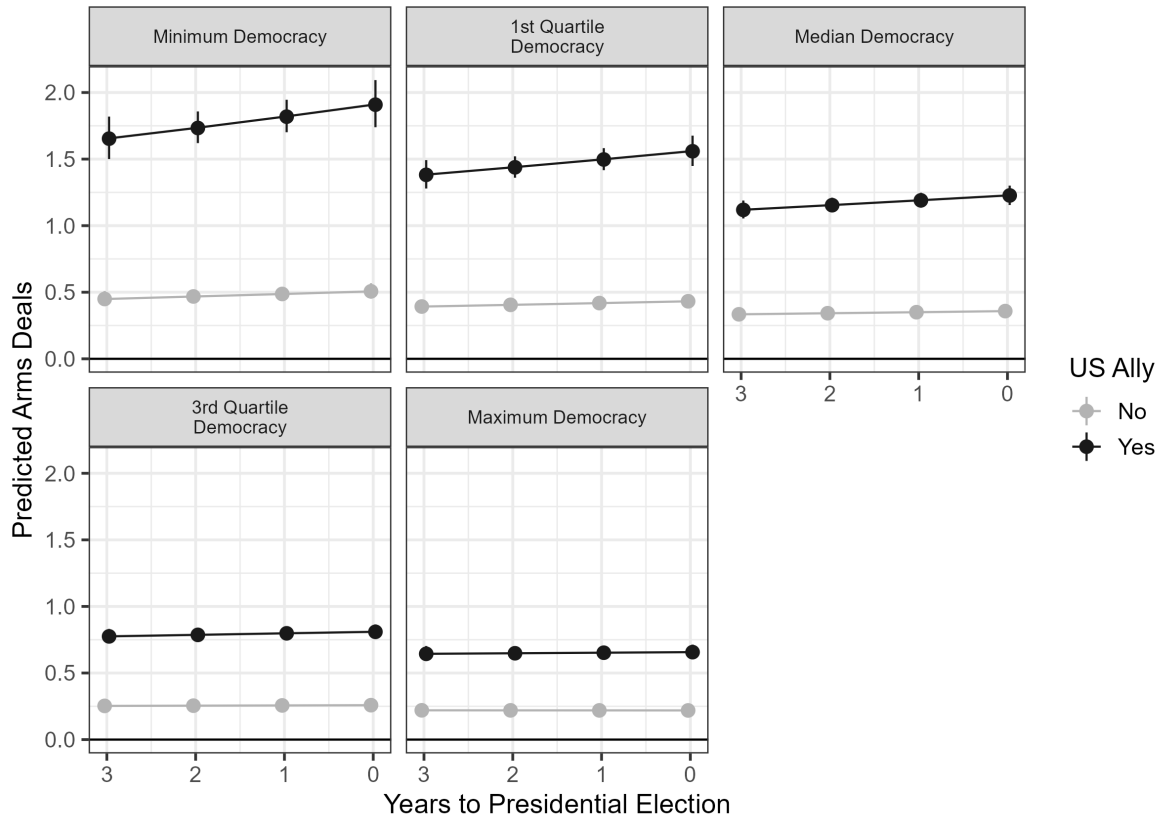


Figure 1. Predicted arms deals between the United States and other states 1950 to 2014 based on presidential election proximity, democracy, and security alliances. Points mark the estimates and error bars summarize the 95% confidence interval.

of equality between allied arms deals at minimum democracy at each level suggest that the increase of .8 deals in each year of the electoral cycle is difference is clearly positive. The electoral cycles when democracy is at the 1st quartile or median are also clearly positive, but are much less substantively important. This cycle diminishes as allied democracy increases, so fully democratic partners see no change in arms deals as elections approach.

Electoral cycles are only present for autocratic allies. States that are not US allies do not change arms deals throughout the electoral cycle. Alliances increase the level of arms deals, and regime type impacts responsiveness to presidential elections.

These estimates support arms deals hypothesis. As presidential elections approach, arms deals rise, but only with autocratic allies. Arms deals with democratic allies are unchanged by electoral competition.

These arms deals with autocratic allies near elections are connected to electoral cycles in defense contracting. If there are no cycles in defense contract awards, then arms deals have less tangible consequences. The next analysis checks for electoral cycles in defense contracting awards.

4 Arms Deals and Defense Contracting

To show how deals drive defense contracting, I use Department of Defense prime contract award data from the USAspending.gov database.¹¹ This archive contains data on individual contract awards starting in the 2000 fiscal year, and I collected all Department of Defense contracts from 2000 to 2020. The key outcome is the log of total defense contracts tied to arms production awarded to a state in every year.¹²

Connecting arms deals and defense contracting is challenging. Deals occur between coun-

¹¹Link here: https://www.usaspending.gov/download_center/custom_award_data.

¹²This measure excludes other contracts besides weapons production because arms deals are unlikely to translate into other contracts.

tries, while defense contracting takes place within US states. As a result, separate models of deals and contracting cannot capture the transfer of electoral arms deals with autocrats into defense contracts.

Because the argument suggests that deals only drive contracting in periods with low demand, I account for the Global War on Terror, which increased defense spending through wars in Afghanistan and Iraq. To do this, I include an indicator of peak years in the global war on terror, which is one from 2001 to 2011, and zero otherwise.¹³ I then interact this dummy with the predicted mean of arms deals.

In addition to the electoral competition and war variables, I include several controls. First, I adjust for population and GDP, in case larger and more prosperous states receive more contracts. I also control for electoral competition with indicators of whether a state is a swing or core state in the president's coalition (Kriner and Reeves, 2015).¹⁴ The final control adjusts for presidential partisanship by coding years with a Republican President with one.

The final adjustments in the model account for clustering and temporal dependence. First, I include state varying intercepts because observations cluster within states. Current contracting also depends on past contracting, as the defense industrial base concentrates in particular areas and moving is difficult. I therefore include a state-specific lagged dependent variable, which allows temporal dependence in contracting to vary by state.

In the following, I describe the joint model formally.¹⁵ The model uses a t-distribution for the outcome, which while estimating the degrees of freedom ν from the data, can be expressed as follows:¹⁶

$$y_{it} \sim Student(\mu_{st}, \sigma) \tag{1}$$

¹³I end the peak years at 2011 with the U.S. withdrawal from Iraq.

¹⁴Swing states are states where the losing party won at least 45% of the two-party vote in three straight elections. Core states are those where the President's party received more than 55% of the two-party vote.

¹⁵Model specified and estimated with **brms** (Bürkner, 2017).

¹⁶The full specification with priors is available in the appendix.

The mean of annual contracts is a function state and year varying intercepts, lagged contracts, swing and core status and the control matrix \mathbf{X} . β_1 is the key parameter for testing the contracts hypothesis, as this implies that greater deals increase contract awards during peacetime. β_3 captures the impact of deals during the general increase in contracting around the Iraq War, and should be close to zero.

$$\mu_{st}^{cont} = \alpha_{state} + \alpha_{year} + \theta_s y_{st-1} + \beta_1 \text{Deals} + \beta_2 \text{GWOT} + \beta_3 \text{Deals} * \text{GWOT} + \mathbf{X}\beta \quad (2)$$

This model encapsulates the theoretical process. First, it assesses the impact of arms deals on defense contracting in war and peace. It does so while adjusting for clustering, temporal variation and other predictors.¹⁷

4.1 Results

During the global war on terror, arms deals were associated with fewer contract awards, all else equal. While this was unexpected, it might reflect...

A few controls are clearly correlated with contracting. While the log GDP estimate is largely positive, it includes some small negative values as well. Republican presidencies are not clearly associated with mean contract awards, but Republicans are associated with greater variance in contracting. The positive correlation between Republican leaders and contract variance may occur because Republicans award more contracts to states with less economic weight and population that are core members of their

This analysis supports the defense contracts hypothesis. In peacetime, swing states receive more defense contracts and contract awards to swing states are also more consistent. In the final analysis, I examine how arms deals contribute to this relationship.

¹⁷In the appendix, I show that OLS and Robust regressions with an aggregate lagged dependent variable produce similar inferences about contracting levels.

Arms Deals and Defense Contracting 2001-2020

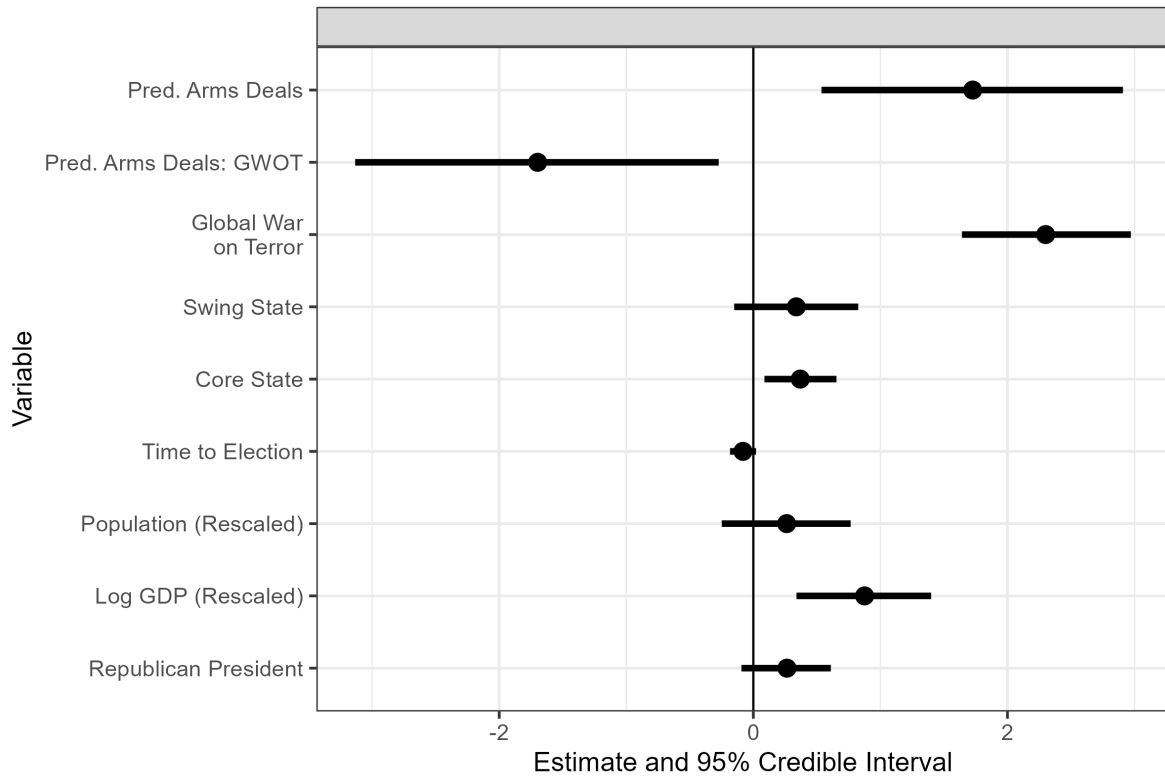


Figure 2. State-level coefficient estimates from a joint model of prime contracting awards to U.S. states between 2001 and 2020.

5 A Bayesian Model of Contracts, Arms Exports, and Trade

The two individual analyses provide initial support for the argument, but they also treat each part of the process in isolation. To show the full process, I employ a generative model where each stage of the process informs the next level. This move I employ this approach because standard multiple-equation models in political science cannot easily accommodate divergent levels of analysis. Flexible structure and Bayesian estimation can capture a wide variety of complex data-generating structures, subject to careful model validation (Betancourt, N.d.).

6 Discussion and Conclusion

The argument and results suggest that political budget and defense contracting cycles expand international trade, especially arms exports to U.S. allies. Economic efforts to bolster presidential electoral prospects have international consequences. Additional goods from defense contracting cycles produce arms flows outside the United States. This bolsters cooperative relations between the United States and its allies.

Allied economic and security statecraft thus helps U.S. leaders win elections. While this is not a part of formal alliance bargains, these informal linkages are essential to grand bargains between alliance patrons and protégés. Allies need not undertake these cycles deliberately, but their accepting arms transfers is part of a cooperative bundle of ties regardless.

Allied support for political budget cycles affects democratic alliance credibility and maintenance. A stable alliance bargain can develop if leaders anticipate the electoral benefits of defense contracting cycles and arms exports to allies. When leaders expect that maintaining security commitment will have electoral rewards, they will be more likely to invest in alliances.

These findings also add an international security component to the political budget cycle literature. Alliance partnerships can allow leaders to manipulate economic conditions for elec-

toral gain. By providing an outlet for defense contracting , allies help leaders contract for new goods with less attention to the absorptive capacity and force planning of the U.S. military.

Finally, the argument and findings add to prior findings that states manipulate international economic and security cooperation to bolster or undermine leaders. To give one example, Chyzh and Urbatsch (2021) show that Chinese soy tariffs reduced support for Republicans in the 2018 midterm elections. Allies have both motive and means to use economic and security cooperation to help leaders. Rather than undermine leaders, allied arms import decisions create positive inducements for regular cooperation.

Future research could proceed in several directions. First, cycles in other economic outcomes such as foreign direct investment, are an interesting area for study. Exploring the role of defense industry integration and intermediate goods in these arms cycles is also critical. Whether these results generalize to autocratic alliances or other democratic alliance patrons is another worthwhile inquiry. Security partners of other alliance patrons may take similar actions in different industries, for instance.

In conclusion, political budget cycles reshape international economic and security cooperation. Budget cycles increase trade and arms transfers to U.S. allies through economic growth and defense contracting. Security cooperation can therefore facilitate electoral benefits for leaders.

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