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Arming the new Sheriff in Town: Arms Transfers in the Wake of Leadership Turnover

Abstract: While a large existing body of work considers the international determinants and consequences of arms transfers, research on their domestic sources is rare. However, anecdotal evidence highlights their importance. This paper addresses this gap by linking arms transfers to research on the consequences of leadership turnover for interstate relations. It develops the expectation that leadership turnover in a recipient country should result in reduced arms orders from previous suppliers, given that new leaders should introduce uncertainty into diplomatic relations and tend to change their countries' foreign policy behaviour. This should especially be the case when new leaders are affiliated with a different support coalition than their predecessors, and when political power is highly concentrated in the executive. These expectations are tested using global dyadic data on leadership turnover and arms orders. Surprisingly, across a range of operationalisation and modelling strategies, there is no empirical support for the expectation that leadership turnover decreases arms orders filed with previous suppliers. This research raises important questions regarding the domestic sources of states' foreign policy behaviour and politico-strategic role of arms supply relationships between states, especially highlighting important future directions for research on the consequences of leadership transitions.

Keywords: leadership change, political leadership, arms transfers, foreign policy

Introduction

In February 2021, Myanmar's armed forces removed the country's civilian government and instituted military rule. As a result of this the new government, led by general Min Aung Hlaing, faced internal pushback, which it has since then met with brutal repression, as well as increasing international isolation, with many governments speaking out against the Burmese irregular leadership change and ensuing violence (Human Rights Watch, 2023). However, this international response is contrasted by recent evidence that while Myanmar's new military rulers have excised civilian rule and turned their guns against their own population, they have continued receiving the weapons for these repressive activities from abroad (United Nations, 2023). This invites pessimism regarding the arms transfer policies of international suppliers, providing an example in line with the literature on arms transfers to human rights violators (see Johnson & Willardson, 2018; Perkins & Neumayer, 2010; Platte & Leuffen, 2016). But it also invites the question whether the research showing domestic leadership changes, such as Myanmar's military coup as well as more peaceful leader transitions, to trigger a multitude of foreign policy and trade realignments (e.g. Leeds & Mattes, 2022; McGillivray & Smith, 2004; Wolford, 2007) is applicable to arms transfer.

In this regard, a closer look at recent arms transfers to Myanmar proves instructive. As highlighted by the United Nations' Special Rapporteur's report, the five countries responsible for weapons transfers to Myanmar have been Russia, China, Singapore as well as, to a smaller extent, India and Thailand (United Nations, 2023). These countries also show up in the Major Conventional Weapons trade register provided by the Stockholm International Peace Research Institute (SIPRI, 2023), both for the period before and after the coup. However, this trade register reveals that in the five years before the coup, 2016-2020, Myanmar also ordered and received weapons from several other countries, including Israel, the Netherlands, South Korea, and Vietnam, which neither SIPRI nor the UN Special Rapporteur have since reported as providing weapons to the Military junta. While not all of Myanmar's weapons suppliers stopped providing arms in the wake of the coup, this shows that numerous suppliers did, and thus begs the question whether, and under which conditions, leadership turnovers are connected to shifts in the provision of armaments more generally?

Building on the existing body of work studying the effects of leadership changes on foreign policy outcomes, I tackle this question by studying how leader changes in a country affect previous suppliers' transfers of weapons to it. In doing so, I focus on Major Conventional Weapons *orders* because arms *deliveries* right after a leader change may simply reflect the fulfilment of pre-

transition orders and because existing datasets report very high fulfilment rates for orders (see SIPRI, 2023). Mirroring the Myanmar example above, I propose that leadership changes reduce existing suppliers' propensity to file weapon orders. This expectation is based on two connected mechanisms. First, such transitions induce uncertainty into how other states view the country under new leadership, thus making arms suppliers less certain what recipients would do with weapons and hence less willing to supply them. And second, given this uncertainty, existing suppliers should try to gauge new leaders' foreign policy intentions by studying observable signals of them, but doing so should only make them less willing to provide arms as leadership transitions have been broadly linked with observable foreign policy shifts, such as alliance exits and changing voting patterns at the UN (see e.g. Leeds & Mattes, 2022). However, it is important to note that not all leader transitions are created equal. On one hand, transitions that also entail a change in ruling or support coalition will have more pronounced effects than those within a constant coalition (Leeds & Mattes, 2022; Mattes et al., 2015). And on the other hand, transitions in political systems where power is heavily concentrated on the leader will result in stronger foreign policy shifts than where the leader's actions are checked by other institutions (see Bobick & Smith, 2013; McGillivray & Smith, 2004; Quiroz Flores, 2012; A. Smith, 2016).

Empirically, I thus use a dataset covering leader transitions and arms orders in the period 1950-2022 to test the expectation that leadership turnover reduces existing suppliers' propensity to supply weapons. In doing so, I distinguish between all leadership changes and those that also entail a shift in ruling coalition, and investigate how this dynamic plays out in two types of political systems that exhibit increasing levels of power concentration on the leader, (i) autocracies and (ii) highly personalised autocracies. Contrary to expectations, I find no consistent evidence that leadership transitions, in either the form of leader or ruling coalition turnovers, affect arms transfers in the hypothesized manner. This null finding holds for the whole sample, as well as for autocracies and highly personalised autocracies more specifically.

These results indicate that, in contrast to other foreign policy and security outcomes, international arms transfers are unaffected by leadership transitions. This paper thus, first, contributes to the body of research on the outcomes of leadership changes by identifying arms transfers as an initially puzzling foreign policy outcome which does not conform to the expectations and results generated by this literature. And second, the paper also discusses potential reasons for the documented null effects, focusing here on the strategic role of arms transfers as tools of exporter influence, thereby also emphasizing other states strategic agency in reacting to domestic leadership changes.

Leadership changes and arms transfers

The literature on both the drivers and consequences of arms transfers have experienced substantial growth in the last few years. Beginning with the latter, existing work considers how arms imports affect outcomes such as international rivalry and conflict (Beardsley et al., 2020; Kinsella, 1994, 1998; V. Krause, 2004), civil war onset, intensity, and duration (e.g. Craft & Smaldone, 2002; Fritz et al., 2022; Magesan & Swee, 2018; Mehlretter, 2022; Mehrl & Thurner, 2020; Moore, 2012; Pamp et al., 2018, 2024), and human rights violations (Blanton, 1999; Sullivan et al., 2020). This body of work highlights that weapons transfers can have several, often politically important outcomes, underlining the importance of better understanding their drivers.

As compared to other trade, arms transfers stand out due to being highly politicized while still maintaining an economic component (Levine et al., 1994). This particularly affects how arms deals are made, as while weapons are technically sold by companies, sales processes are strongly regulated by exporter governments, who have to grant export licenses, but regularly are also needed to financially support exports via offsets, barter agreements, or loans (R. Smith, 2009). Importantly, arms transfers can be studied in terms of the actual delivery of weapons, arms orders, and the negotiations before an order is even filed. Most existing literature on the causes and consequences of arms transfers, surveyed above and below, investigates their deliveries, though these may occur over several years given the complexity of the involved weapons systems and thus result from events or agreements that had happened a few years before¹. In contrast, arms orders reflect the moment when all parties to the sale (at a minimum: importer, exporter government, and defence company) agree that weapons systems should be transferred, a contract is signed, and preparations for the actual deliveries begin. Orders accordingly indicate the point in time when domestic and international observers should begin reacting to a weapons transfer (Alley, 2024), and signal that, in principle, both sender and recipient state are happy with it to go ahead². Of course, given the timescales of deliveries, these deals can then still be the subject of further negotiation, reflecting alterations in recipient needs as well as political shifts, potentially resulting in changed costs, different unit number, and even longer delivery periods (R. Smith, 2009).

¹ Smith (2009 p.123) gives the example of a 1995 order of Chinook helicopters by the UK; eight of these had to be adapted for special forces use, resulting in a 2001 delivery. Inferential studies of arms transfer deliveries accordingly have to grapple with how much explanatory variables should be lagged to capture extended delivery dynamics.

² Negotiations up until this point are complicated, can involve many parties across, for instance, different departments of state or defence companies, and may feature demonstrations, competitions, but also bribes (R. Smith, 2009). For work describing these processes, see Barlas and Güvenç (2002), Ferreira and Liebenberg (2004), and Grant (2018).

Much work on the drivers of arms transfers comes from a political economy perspective and thus considers gravity model of trade-style factors such as wealth, military spending, population, and distance (Akerman & Seim, 2014; Comola, 2012; Martínez-Zarzoso & Johannsen, 2019), while also including variables capturing military alliances between senders and receivers or their political difference in terms of regime type. From a similar perspective, other work looks at price effects (Goodhart & Xenias, 2012; R. P. Smith & Tasiran, 2005, 2010) and considers the effects of arms embargoes (Baronchelli et al., 2022; Bove & Böhmelt, 2021; Erickson, 2013). Alley (2024) considers the role of political business cycles in US arms export orders. And recently, several studies have begun to investigate network effects within the arms trade (e.g. Kinne, 2016; Mehrl et al., 2024; Pamp et al., 2021; Thurner et al., 2019). There is thus a large and growing literature on when states trade weapons. But notably, most of these studies exhibit little linkage to the wider International Relations literature and thus neither benefit from nor substantively contribute to the theories and arguments developed there. Some recent exceptions to this include work on the effects of international hierarchy and status (Johnson & Shreve, 2023; Vucetic & Tago, 2015), Willardson and Johnson (2022), who try to derive testable hypotheses from the three big International Relations paradigms, as well as research studying the effects of bi- and trilateral rivalry relations on the arms trade (Mehrl et al., 2025). But taken together, much existing work on the drivers of arms transfers largely focuses on economic trade models as well as network theories, while making little use of existing IR approaches. And even where such approaches are used, the focus clearly remains on country-level attributes such as regime type, material capabilities, or rivalry (see Mehrl et al., 2025; Willardson & Johnson, 2022)³.

In doing so, the arms trade literature appears detached from work in International relations that emphasizes the role of political *leaders*, that is, the individuals responsible for ultimately leading their country to war, into an alliance or, here, investing financial and political resources into acquiring weapons. This is puzzling as this field of research has grown substantially for, at least, the past 20 years and highlights the role of leader *transitions* for a variety of outcomes closely connected to arms transfers⁴. Most importantly, leadership changes have been shown to be associated with foreign policy shifts (see Leeds & Mattes, 2022; Mattes et al., 2015; A. Smith, 2016), implying that new leaders exit existing commitments and enter new ones. Accordingly, existing work shows that leadership transitions result in an increased risk of states engaging in international conflict, as new leaders are incentivised to build a reputation for resolve while their

³ An exception to this is the literature investigating whether arms exporters care about recipients' human rights record (Johnson & Willardson, 2018; Perkins & Neumayer, 2010; Platte & Leuffen, 2016).

⁴ For a recent introduction to this large literature, see Carter (2024).

opponents are pushed to probe this resolve by escalating (Wolford, 2007; Wu et al., 2021; Wu & Wolford, 2018), or in trade disputes (Bobick & Smith, 2013). But it also links these transitions to an increased probability of terminating ongoing wars and trade disputes (Bobick & Smith, 2013; Quiroz Flores, 2012; Ryckman & Braithwaite, 2020), exiting alliances and other international treaty commitments (Böhmelt, 2019; Leeds et al., 2009; Leeds & Mattes, 2022; Pilster et al., 2015), and changing trade partners (Leeds & Mattes, 2022; McGillivray & Smith, 2004). Importantly, these results are particularly strong for leadership transitions associated with a change in support coalition and countries where this coalition is small, that is, non-democracies (Bobick & Smith, 2013; Leeds et al., 2009; Leeds & Mattes, 2022; Mattes et al., 2015; McGillivray & Smith, 2004; Quiroz Flores, 2012; A. Smith, 2016).

Building on these insights, I argue that a leadership transition in a recipient country decreases the probability of arms orders from existing supplier countries, especially when that transition also changes the ruling coalition and when that coalition is small. This, I argue, is the case due to two reasons, which I develop in more detail below. First, as highlighted by research on crisis escalation in the wake of leadership changes, other countries now face increased uncertainty over the resolve and, more generally, preferences of the new political leadership. For arms suppliers, this should translate to reduced certainty over what the recipient may intend to do once armed and hence a reduced willingness to provide arms. And second, given this uncertainty, arms suppliers will look to better understand new leaders' intentions by studying observable signals of these, that is, new leaders' wider foreign policy conduct. But as leadership transitions are linked to a wide array of behavioural changes in states' foreign policy, these observable signals should reduce other states' uncertainty only in the sense that they would become increasingly convinced not to send arms.

As the literature on leader turnover and war shows, new leaders introduce uncertainty into bargaining processes: they have their own levels of resolve and of importance that they attribute to a certain issue, which likely differ from other individuals - such as their predecessor in office - and are private information. Importantly, new leaders also have clear incentives to overstate these factors as they seek to build a reputation and maximize bargaining outcomes. In crisis bargaining, opponents are in turn incentivised to test new leaders on their stated resolve in order to reveal information about it, thus pushing both sides towards conflict (Wolford, 2007; Wu & Wolford, 2018). However, opponents are unlikely to be the only audience to new leaders' statements of resolve and intentions as their existing partners will also be listening. For this audience, it is important to understand how the leadership turnover affects their position and

whether they can still rely on sharing common foreign policy interests with their erstwhile partner. Along these lines, formal work on the arms trade highlights that arms suppliers consider potential security repercussions when deciding whether to provide weapons to another country but also describes “sales to an ally” as a “straightforward” case where “transferring arms will increase [...] the suppliers security” (Levine et al., 1994, p. 5). In other words, suppliers need not fear negative externalities from selling weapons to allies, given that they have the same interests. But what if the ally’s interests change and are not the same anymore? Then, arming that ally clearly becomes less beneficial as the provided weapons are, at a minimum, used to pursue goals outside of the supplier’s interest and, at a maximum, may even be turned against the supplier. For arms suppliers, partner countries having new leaders with unknown resolve and preferences thus induces uncertainty whether they are still safe destinations for arms supplies, especially as the security issues they previously worked on together will likely be closely connected to those the new leader is seeking to demonstrate resolve on. This increased uncertainty reduces the security, and thus overall payoff, suppliers can expect from providing weapons to a recipient with a new leader, making it less attractive for them to continue supplying arms.

But faced with this kind of uncertainty, existing suppliers are also likely to consider whatever empirical record the new leader has in terms of demonstrating their foreign policy intentions and compliance with existing commitments. We know from existing research that suppliers are more likely to arm another country if they share a defence alliance or are similar in terms of voting at the United Nations (see e.g. Martínez-Zarzoso & Johannsen, 2019). And in line with liberal peace arguments, there is also evidence that they are more likely to trade weapons when they generally trade more (Willardson & Johnson, 2022). But new leaders appear prone to tear up existing alliance commitments (Leeds et al., 2009; Pilster et al., 2015), shift how their countries vote on UN resolutions (Mattes et al., 2015; A. Smith, 2016), and change who they trade with (Leeds & Mattes, 2022; McGillivray & Smith, 2004). As such, arms suppliers are likely to experience partner countries with new leaders moving away from them in terms of these known and easy to observe indicators of shared preferences. And even where this has not yet occurred, there appears to be clear reason for suppliers to expect foreign policy shifts by their erstwhile partner, thus adding an expectation of preference dissimilarity to their uncertainty over the partner’s intentions.

Given this uncertainty over the new leader’s intentions and potential for increased foreign policy dissimilarity on part of the supplier, I expect that a leadership transition in a recipient country decreases the probability of arms orders from existing supplier countries. Note here that, in theory, a leadership change could in fact also produce a new leader that is more aligned with a

supplier's foreign policy goals, thus actually increasing their payoff from supplying weapons to the new leader's country. However, there are two reasons to believe that such a leader change would not actually have a positive effect on arms orders. First, as I am studying only pre-existing supplier-recipient relationships, the recipient's previous leader must already have been sufficiently aligned with supplier's foreign policy outlook to warrant the provision of weapons. So, even if a new leader is even more aligned, both the old and new leaders' interests will generally have been very close to that of the supplier, warranting little change in terms of arms supplies. And second, even if a new leader, upon coming into office, swears continued or even increased adherence to their predecessors foreign policy, neither their enemies nor allies can be certain regarding their resolve to do so when push comes to shove – for their predecessor, this had been known from prior observable action and interactions, whereas for the new leader, it remains private information and hence introduces uncertainty (Wolford, 2007). As such, there is reason to believe that even if a new leader is equally or even more aligned with their arms suppliers foreign policy goals than their predecessor, arms orders from previous suppliers will not increase in the wake of a transition but, due to uncertainty regarding their resolve, actually decrease.

Nonetheless, this scenario also emphasizes that not all leadership transitions are created equal. Accordingly, I especially expect that a leadership transition in a recipient country decreases the probability of arms orders from existing supplier countries when two conditions hold. The first is that the new leader is backed by a different support coalition than their predecessor. This stems from the fact that such leaders, as compared to “political heirs”, are more likely to substantially differ from their predecessors, thus introducing uncertainty regarding their intentions and resolve towards existing policy issues and increasing the chance that they indeed hold different preferences (see Leeds et al., 2009; Leeds & Mattes, 2022; Mattes et al., 2015). And second, recipient leader changes are more likely to affect arms transfers if they occur in a country where the ruling coalition is small and the leader's ability to act on their individual intentions and resolve is unchecked by other institutions. While political leaders matter, not all can simply translate their personal whims into policy because they have to contend with the influence of other, formal or non-formal institutions that check their ability to do so. Accordingly, much research finds that leader changes in autocracies prove more influential than those in democratic countries, where policy decisions may have to be coordinated with the responsible ministers, voted on by one or even two parliamentary chambers, and signed off on by a head of state (Bobick & Smith, 2013; McGillivray & Smith, 2004; Quiroz Flores, 2012; A. Smith, 2016). But adding to this, research on autocracies also shows that even autocratic leaders may face substantial hurdles in their personal execution of power, as they may be checked and controlled by, for instance, party

organs such as a politburo or by fellow military leaders within a junta (see Geddes et al., 2014, 2018). This highlights the specific role of power concentration within the country, and thus that especially highly personalised autocracies should experience foreign policy shifts, as well as their repercussions in terms of arms transfers, after their leader changes.

Taken together, I thus expect that leadership transitions in a country should result in reduced arms transfers from countries it has previously received weapons from. In addition, I expect that this relationship should hold in particular when leadership transitions affect not only an individual leader, but their entire support coalition, as well as when they occur in autocratic countries and, especially, highly personalised autocracies.

Research Design

In line with existing research on the effects of leadership transitions, I focus on a country's arms trade relations with previous suppliers of weapons as it should be particularly these states that would have to re-assess their relationship with the country under new leadership (McGillivray & Smith, 2004). As an added benefit, this also ensures that the models do not include thousands of irrelevant dyads where the potential sender is a country that has never exported any arms. Given this focus on an arms recipient's interaction with specific sender countries, I employ the directed sender-receiver dyad-year as unit of observation. In the main models, I take previous suppliers to be those that have sent weapons to the recipient during the prior five-year window, and hence include only those directed dyads as observations in the sample within which at least one arms order has occurred during years $t - 6$ to $t - 2$. Below and in the supplementary materials, I also present results of models which use both shorter three-year and longer ten-year time frames, and, more importantly, focus not on all previous suppliers but instead only top suppliers. Specifically, the models focusing on top suppliers include only dyads involving potential senders that, in the prior five-year window, ranked, respectively, in the top three and at the very top among suppliers to the recipient in question. This is done as the expectations developed above may hold particularly for top suppliers.

The dependent variable is dichotomous, taking the value 1 if at least one arms order was filed in a given sender-recipient dyad-year. Data on the incidence of arms orders comes from SIPRI (2023). Mirroring the majority of literature on the arms trade, this paper thus focuses on transfers of major conventional weapons. To clarify the unit of observation, different samples, and dependent variable, we can again look at Myanmar as an example. In 2022, Myanmar could, in theory, have received weapons from more than 180 source countries, each of these would then form one observation, with a potential source country, e.g. Honduras, as sender, Myanmar as the

recipient, and 2022 as the year. However, this analysis focuses on those countries that had already sent weapons to Myanmar before, that is, its previous suppliers. In fact, Myanmar had received weapons from only eleven out of the potential 188 countries during the period 2016-2020, meaning that for 2022, eleven observations with Myanmar as potential recipient would be included in the main models. The dependent variable would then capture whether Myanmar ordered weapons from the respective supplier, for instance, for the dyad China-Myanmar-2022, whether weapons were ordered from China in 2022. In the analyses focusing on only top suppliers, these eleven observations involving Myanmar as a recipient in 2022 would then be further whittled down, so that, respectively, only three – China, Russia, and India as top three suppliers to Myanmar during 2016-2020 – and one, the China-Myanmar-2022 dyad, would enter the estimation sample.

I employ two different measures to capture the core independent variable, leader turnover, both of which are dummies and sourced from the CHISOLS data (Mattes et al., 2016). The first measures all types of leader turnover, taking the value 1 for years where a potential recipient-country's leader changed. The second measure, in contrast, is more narrow and captures only those leader changes that also entailed a shift in the leader's support or ruling coalition. More specifically, this variable only considers such leadership changes as support coalition changes where, in democracies, the successor is from a different political party than the predecessor and, in autocracies, when a transition occurs from one ruling clique or regime to another, thus excluding, for instance, leader changes within the same military junta or royal family (see Mattes et al., 2016, pp. 261–262). Such support coalition changes make up roughly 50% of all leadership changes, both in the full CHISOLS data and the estimation dataset.

Both the dependent and independent variable are thus dichotomous. This results in the model of interest ultimately becoming a comparison of means test and allows me to ignore concerns regarding its functional form⁵. Accordingly, I employ linear regression models which have the added benefits of working well with fixed effects and being computationally lightweight. All models include the cubic polynomials of time since the last arms order within a directed dyad to account for temporal dependence (D. B. Carter & Signorino, 2010), and I cluster standard errors on the dyad to account for the non-independence of observations within it⁶.

⁵ See, for instance, Mehrl and Dworschak (2022).

⁶ The supplementary materials include models employing standard errors which are robust specifically to dyadic clustering and thus account for overlapping members across multiple dyads (Aronow et al., 2015).

The main models include both directed dyad- and year-fixed effects, thus accounting for factors which remain constant within a dyad (including well known gravity model of trade factors such as distance and common language) as well as global shocks to the arms trade, such as the end of the Cold War. In addition, I include a set of control variables to account for confounders which credibly affect both the probability of leader change and countries' propensity to trade weapons. For instance, existing research highlights that arms transfers are affected by both sender and receiver regime type, wealth, military spending, and involvement in armed conflict (Martínez-Zarzoso & Johannsen, 2019; Mehrl et al., 2025; Thurner et al., 2019), while leader and regime change, for instance via coup d'états, are equally affected (Arbatli & Arbatli, 2016; Bell, 2016; Croco, 2011; Leon, 2014; Londregan & Poole, 1990). In line with gravity approaches to trade, I control for sender and recipient population size. And because especially in democracies with term limits, leader change is strongly affected by how long a given leader has already been in office, I also control for the importer country's time since the last leader turnover. Finally, I include indicators of the sender and recipient's difference in regime type, as well as whether they share a defence alliance, to capture to what extent they will have similar underlying interests. The full set of control variables, their operationalisations, and sources are presented in table 1.

Variable	Measure	Operationalisation notes	Source
Regime Type	V-Dem Electoral Integrity Index	Included for sender and receiver	(Coppedge et al., 2023)
Wealth	Latent GDP Estimate	Included for sender and receiver; Log-transformed	(Fariss et al., 2022)
Population	Latent Population Estimate	Included for sender and receiver; Log-transformed	(Fariss et al., 2022)
Military Spending	Latent Military Spending Estimate	Included for sender and receiver; Log-transformed	(Barnum et al., 2025)
Armed Conflict	UCDP ongoing armed conflict dummy; ongoing MID dummy	Included for sender and receiver	(Davies et al., 2023; Gibler et al., 2016)
Leader Time	Years since last leader change	Constructed from CHISOLS data	(Mattes et al., 2016)
Regime Type Difference	Difference in V-Dem Electoral Integrity Index	Absolute value	(Coppedge et al., 2023)
Defence Alliance	ATOP Defence Alliance dummy	/	(Leeds et al., 2002)

Table 1: Control variables.

While this discussion is sufficient for the models testing the direct effect proposed by hypothesis 1, this is not the case for the interaction effect posited by hypothesis 2. To test this hypothesis, I interact the measure of leadership turnover with one of two measures of a recipient country having a small ruling coalition and a lack of checks and balances on a new leader. The first, more general of these measures is a dichotomous indicator of whether the recipient country is an autocracy, mirroring the logic that autocrats have smaller support coalitions than democratically

elected leaders and are less constrained by the rule of law or powerful other governing bodies, e.g. a parliament. But secondly, I also take into account that leaders' individual power and control over their countries' politics varies significantly across autocracies, and thus use a dichotomous indicator of whether a country is a highly *personalised* autocracy. Both of these variables are constructed from Geddes, Wright, and Frantz' (2014, 2018) data on autocracies. I do not directly use their latent personalisation measure, but instead code a personalisation dummy from it, as I would otherwise have to exclude all non-autocracies. The dummy takes the value one if a country-year is an autocracy and in the top quartile of the latent personalisation measure. The interaction models are specified in the same manner as the models testing a direct effect, the only exception being that they exclude the originally included control for importer regime type.

To summarise and clarify the temporal order of included variables, I estimate the following full models:

- 1) $Arms\ order_{i,j,t} = \beta_1 Leadership\ Turnover_{i,t-1} + \alpha_{i,j} + \gamma_t + \mathbf{X} + \varepsilon_{i,j,t}$, where \mathbf{X} is the following vector of control variables: $Regime\ Type_{i,t-2} + Regime\ Type_{j,t-2} + Wealth_{i,t-1} + Wealth_{j,t-1} + Population_{i,t-1} + Population_{j,t-1} + Leader\ Time_{i,t-2} + Military\ Spending_{i,t-1} + Military\ Spending_{j,t-1} + Ongoing\ MID_{i,t-1} + Ongoing\ MID_{j,t-1} + Ongoing\ Armed\ Conflict_{i,t-1} + Ongoing\ Armed\ Conflict_{j,t-1} + Defence\ Alliance_{i,j,t-1} + Political\ Distance_{i,j,t-2}$.
- 2) $Arms\ order_{i,j,t} = \beta_1 Leadership\ Turnover_{i,t-1} + \beta_2 Moderator_{i,t-1} + \beta_3 Leadership\ Turnover_{i,t-1} * Moderator_{i,t-1} + \alpha_{i,j} + \gamma_t + \mathbf{X} + \varepsilon_{i,j,t}$, where \mathbf{X} is the same as before except for removing $Regime\ Type_{i,t-2}$.

All independent variables are lagged by one year in order to ensure temporal order with regards to the dependent variable, while regime type controls are lagged a further year to avoid their values being a direct result of contemporaneous leadership turnover.

Results

The results of eight models testing the first expectation are presented in figure 1⁷. These models use the two different measures of leadership change, capturing, on one hand, any leader turnover and, on the other, support coalition shifts, and move from a bivariate specification, to including control variables, then directed dyad- and year fixed effects, and finally the full models including controls as well as fixed effects.

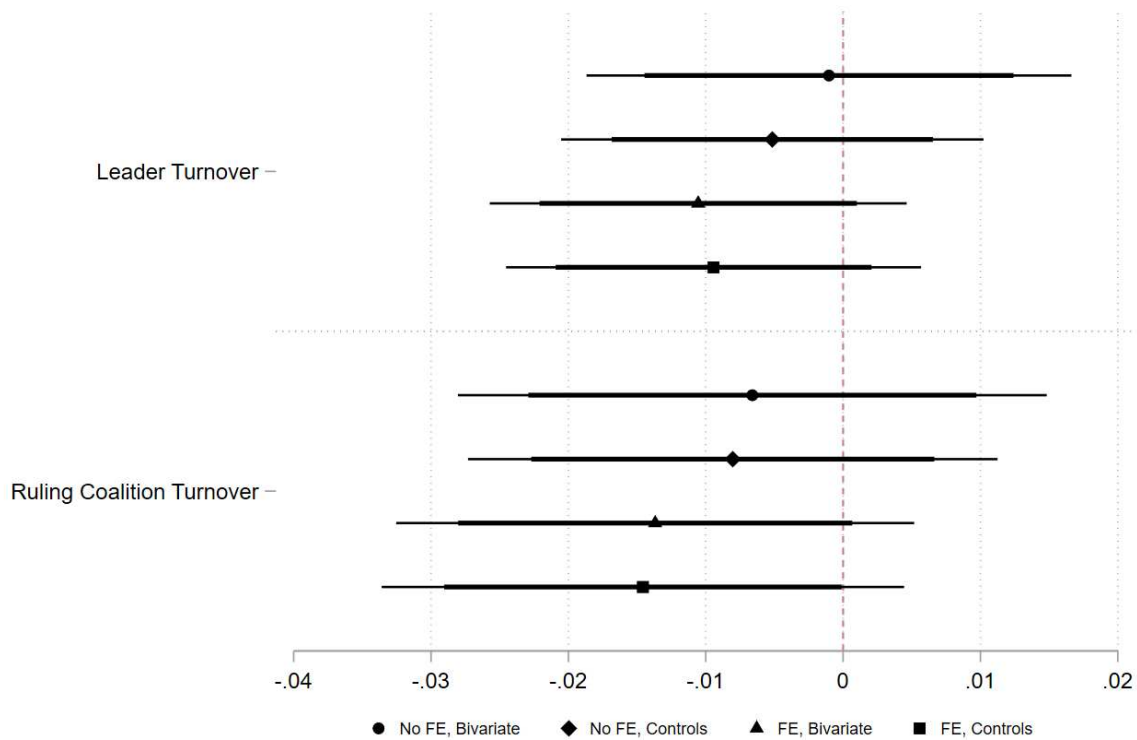


Figure 1: Leadership Turnover and Arms Orders. Change in order probability associated with a leadership turnover. Whiskers indicate 95%- (thick lines) and 99%-Confidence Intervals (thin lines).

The results presented in figure 1 indicate very little support for the idea that leadership turnover decreases major conventional weapons orders. Leader turnover is not found to have a statistically significant effect on the dependent variable in any of the four relevant models, while the effect of ruling coalition turnover just so is statistically significant at the 95%-level in the fully specified model. However, this effect seems to depend on the inclusion of both controls and fixed effects and, as it reduces the probability of arms orders by just 1.5%, can be deemed substantively negligible⁸.

⁷ Complete regression tables can be found in the appendix.

⁸ Whether the effect is negligible can be assessed by comparing the coefficient estimate and its more extreme confidence interval to the standard deviation in the dependent variable for “un-treated” units, i.e. those countries without a ruling coalition change. Following Rainey (2014), the effect would be

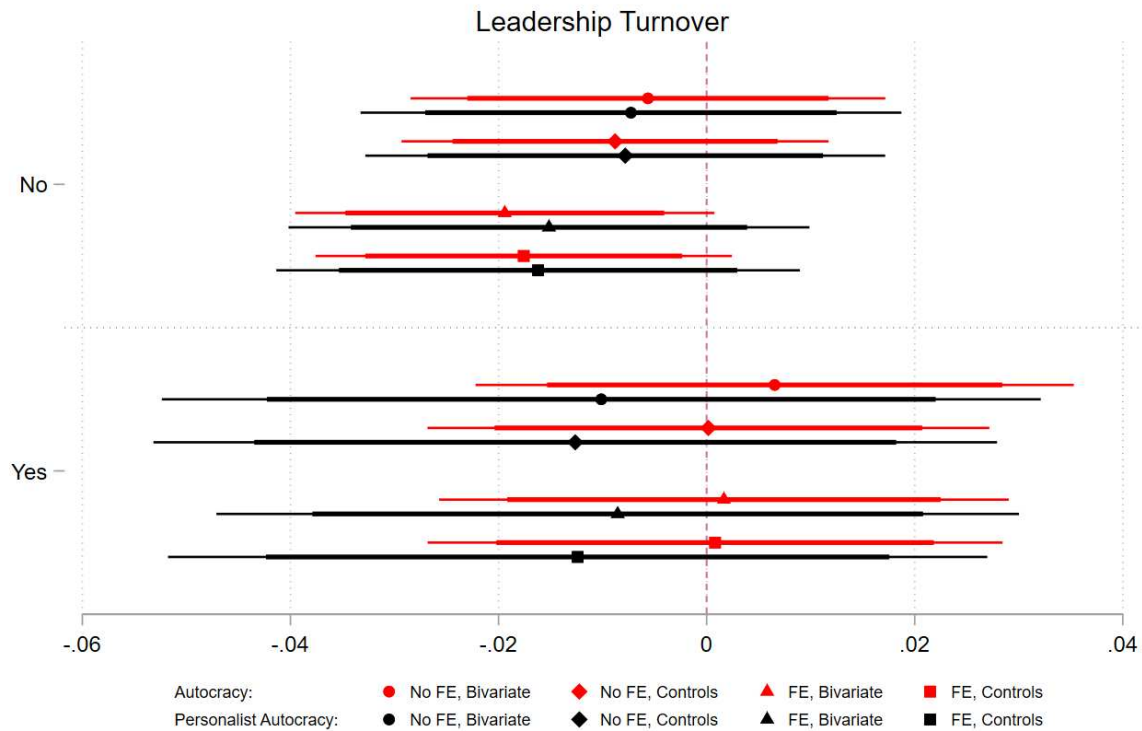


Figure 2: Leadership Turnover and Arms Orders - Interactions. Change in order probability associated with a leadership turnover. Whiskers indicate 95%- (thick lines) and 99%-Confidence Intervals (thin lines).

These results are not noticeably different in figures 2 and 3, which presents the results of a total of sixteen models interacting the indicators of leader and ruling coalition turnover, respectively, with the two different measures of support coalition size and executive constraints. Across all sixteen models, the effect of leader turnover is substantively small. And while four effect estimates can barely be statistically distinguished from zero at the 95%-level, they are those for leader turnover *in non-autocracies* (if fixed effects are included) and for coalition turnover *in non-autocracies and non-personalist countries* (if both fixed effects and the controls are included). As such, there is little evidence that either leadership or support coalition turnover generally decreases the probability of arms transfers and equally little support for the idea that these changes have such an effect specifically in systems with smaller ruling coalitions.

Taken together, these results suggest that, contrary to expectations, leadership turnover does not reduce countries' weapons orders from existing suppliers. What is more, leadership changes do not even have this effect when the entire ruling coalition changes or when either of these changes

substantively negligible if both coefficient estimate and confidence interval are below 10% the size of the standard deviation. Here, they are 3.4% and 6.2% its size, respectively.

occur in systems where power is heavily concentrated on the coalition or leader that is being replaced.

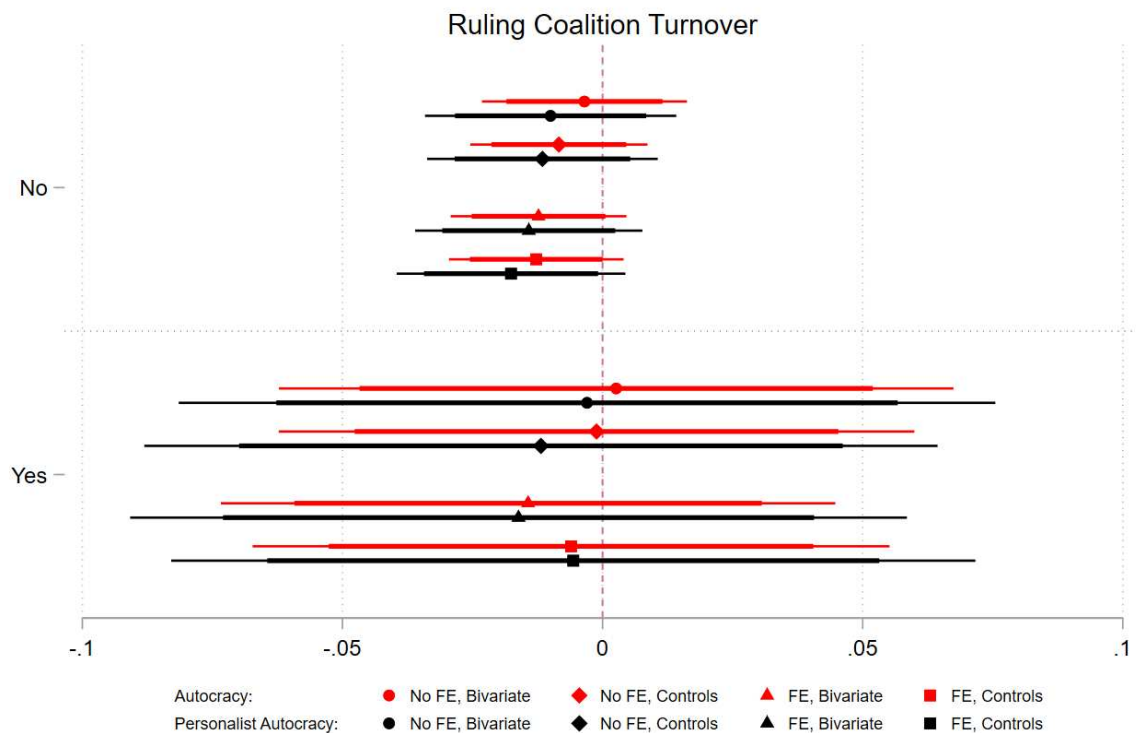


Figure 3: Ruling Coalition Turnover and Arms Orders - Interactions. Change in order probability associated with a leadership turnover. Whiskers indicate 95%- (thick lines) and 99%-Confidence Intervals (thin lines).

Finally, figure 4 replicates the models underlying figures 1-3 while further limiting the estimation sample to include only dyads involving top suppliers. Top suppliers, as compared to minor ones which may have previously sold some weapons to a given recipient but not at large scale, may have larger political stakes in the relationship with the recipient, and thus be more affected by the recipient's foreign policy shifts following leadership turnover. If it is only these top suppliers who are affected by foreign policy shifts, the inclusion of minor suppliers in the analysis may mask potential effects of leadership changes on arms transfers. Figure 4 thus replicates previous models while focusing on top suppliers. In the left column, the estimation sample includes dyad-years involving a recipient's top-3 suppliers, that is, the three countries the recipient ordered weapons most from in the preceding five-year window. And in the right column, only dyad-years between recipient and the country with the most prior weapons orders, that is, the top supplier, is included. However, the results in figure 4 do not substantively differ from those presented in figure 1-3, indicating that the reported null effect also holds for top suppliers.

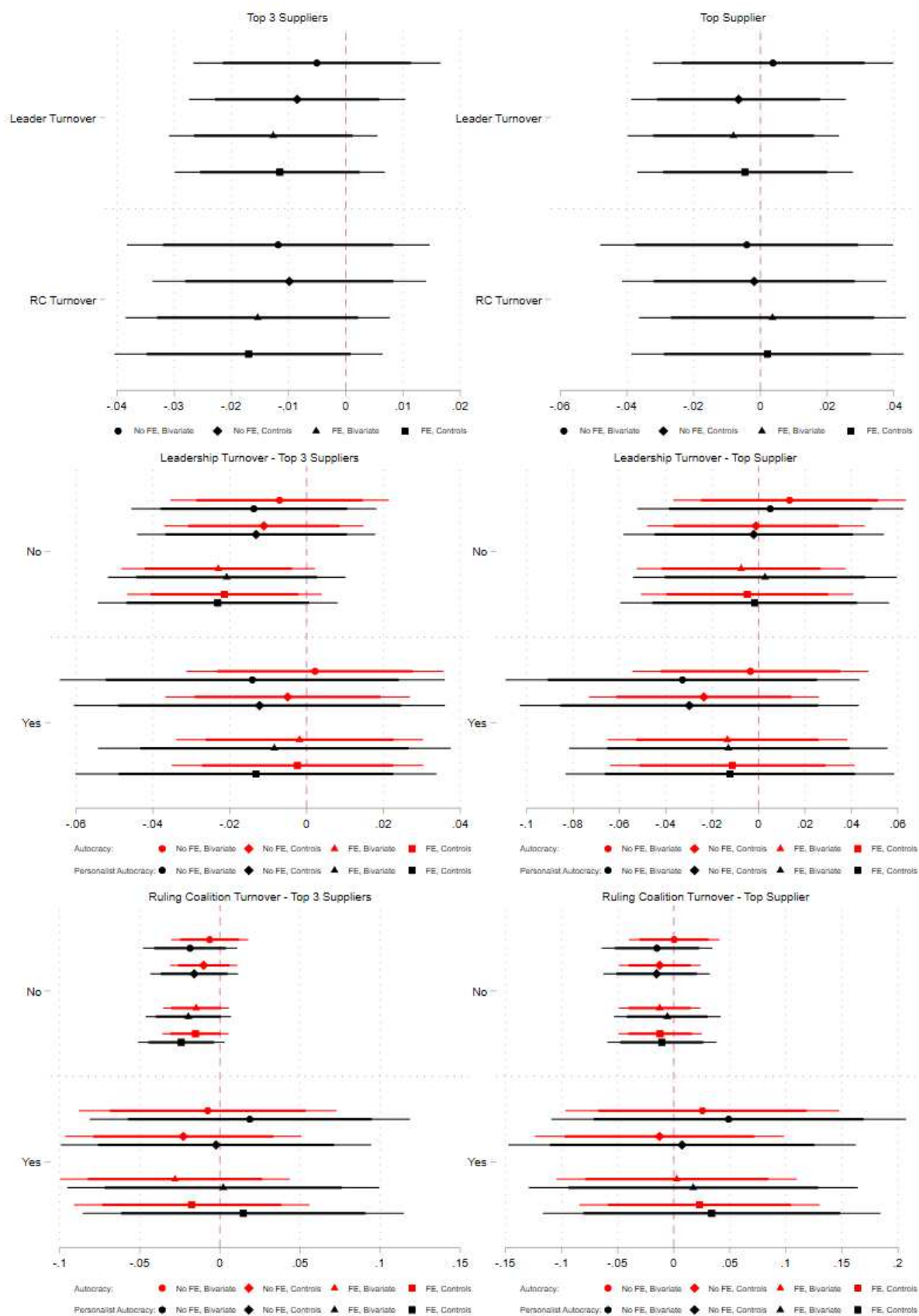


Figure 4: Leadership Turnover and Arms Orders from top suppliers. Change in order probability associated with a leadership turnover. Whiskers indicate 95%- (thick lines) and 99%-Confidence Intervals (thin lines).

In the supplementary materials, I further investigate whether these results depend on which countries are considered to be existing suppliers and account for dyadic clustering between observations (Aronow et al., 2015). The substantive results do not change, further supporting the finding that leadership changes do not affect arms transfers from existing suppliers.

Conclusion

This research investigates how leadership changes in a recipient country affect its ability to file arms orders from existing suppliers. While a large International Relations literature on the foreign policy consequences of such changes suggests that these orders would be reduced, empirical results using a dataset of leadership changes and arms orders covering almost the entire post-World War II period provide no evidence for this expectation. Instead, neither leader changes nor shifts affecting a leader's entire support coalition reduce arms orders from existing suppliers. And in contrast to studies emphasizing the importance of such power transfers particularly in non-democratic systems with highly concentrated power, neither type of leadership change is found to affect arms orders by autocracies or personalised autocracies.

This raises the question, why do existing suppliers not re-evaluate and stop arms deals with recipient countries that have just undergone a leadership transition, given the implications such transitions seem to have for foreign policy orientation and behaviour? While it is impossible to fully answer this question here, one clear possibility is connected to the political sway arms transfers afford to suppliers (Beardsley et al., 2020; K. Krause, 1991; Mehrl et al., 2024). Instead of terminating arms deals because of recipients' changing foreign policies, suppliers may then continue to supply weapons precisely in order to work against such changes. In other words, instead of giving up on the political relationship that arms transfers have allowed them to establish with the recipient, suppliers may seek to maintain and transfer this relationship from the old leadership to the new one via their continued supply of weapons, thus (re-)building the influence arms transfers offer them over the recipient state. Anecdotally, this explanation seems to fit China's consistent supply of weapons to Myanmar both before and after the military coup. But more systemically, this explanation clearly requires testing – future work may thus want to investigate to what extent states' foreign policy shifts in the wake of leadership changes are conditioned by those states remaining dependent on previous arms suppliers, but also within other forms of dependence-creating international hierarchy (see Lake, 2009).

While the null findings presented here are thus initially puzzling in light of research on leadership transitions, they also point to new avenues in this body of work and highlight that more attention

may need to be paid to other states' efforts to minimize the foreign policy consequences of such domestic shifts in political power.

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