Unrecognized States: A Theory of Self-Determination and Foreign Influence

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Abstract

Unrecognized states are characterized by stagnant or crumbling economies and political instability, often serve as havens for illicit trade, and challenge the territorial sovereignty of recognized states. Their persistence is both intellectually puzzling and normatively problematic, but unrecognized statehood can be a remarkably stable outcome, persisting for decades. Our four-player model reveals that unrecognized statehood emerges as an equilibrium outcome when a patron state is willing and able to persistently invest resources to sustain it. We assess options available to actors in the international community who seek to impose their preferred outcomes in these disputes and find that, although sanctions are the most frequently employed, they can often lead to renewed conflict instead of the intended resolution.
1 Introduction

South Ossetia is an archetypical unrecognized state – characteristic of those regions of the world in which non-state actors control territory and govern populations. From 1990 to 1992, Ossetian rebels fought a successful secessionist civil war against the Georgian government that ended with a ceasefire and left the rebels in *de facto* control of much of the region of South Ossetia, which sits along Georgia’s northern border with Russia. In the 22 years since the ceasefire was signed, South Ossetia has functioned as an unrecognized state, governing its own affairs but unrecognized by foreign nations.\(^1\) The Georgian government maintains its claim to the territory of South Ossetia, while the South Ossetians continue to seek international recognition of their independence. In 2004, the Georgian government began intermittent efforts to close trade with the separatist region, and in 2008, following escalating provocations from the Ossetian side, Georgia attempted to reclaim the territory by military force. Russian troops acting in support of the Ossetians quickly crushed the would-be reconquest, and the status quo was restored.

The international system is characterized by a norm under which seceding entities are rarely recognized by foreign states unless they are first recognized by the home state.\(^2\) This norm makes sense in a context where almost all states have reason to fear the emergence of secessionist movements within their own borders, and a state system that places seceding entities at an extreme disadvantage lowers the expected benefits of secession, thereby reducing the incentives for secessionist movements.\(^3\) Thus, unrecognized states emerge when seceding entities gain *de facto* territorial control through successful wars of secession, but are not militarily strong enough to force recognition of their independence from the home state from which they have seceded.

Persistent unrecognized statehood is both intellectually puzzling and normatively unde-

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1 South Ossetia, along with Abkhazia, was recognized by Russia and Nicaragua in 2008, Venezuela and Nauru in 2009, and Tuvalu in 2011.
2 This norm is not absolute: in some cases, like the People’s Republic of China, the sovereignty of the home state government (over Taiwan) has never been recognized by some states. In other cases, like Kosovo, the commission of mass atrocities by the home state government may supersede its sovereignty.
3 Coggins (2011: 451) notes that, “The more acute the domestic threat, the more the reticence to recognize.” For the definitive international legal treatment of recognition, see Crawford (2006).
sirable. It is an extremely costly outcome for the secessionists, the home states from which they are attempting to secede, and the international community more broadly. Nonetheless, unrecognized statehood has been a recurring phenomenon since WWII, with half a dozen current unrecognized states having existed for more than 20 years.\(^4\) Much of the existing literature treats unrecognized statehood as either a transient phenomenon or simply as a failure to reach recognized statehood. In contrast, we argue that unrecognized statehood is an important outcome in its own right, and one that is potentially extremely stable over time. A major contribution of this paper is the demonstration of unrecognized statehood as a long-run equilibrium outcome of the strategic interaction between not just the secessionists and the home government, but also the international community and states or non-state actors who act as patrons of the secessionists. We show that unrecognized statehood can be a stable outcome despite its persistently high costs to all actors involved.

The costs to the secessionists are arguably the highest. Non-recognition locks unrecognized states out of a states-only club whose members enjoy benefits in terms of both security and economic integration. Unrecognized states do not benefit from the norm of territorial integrity that reduces the cost of territorial defense by increasing the chance that foreign powers will intervene against, or at least sanction, an invader.\(^5\) Non-recognition also prevents entry into multilateral and bilateral trade agreements, dramatically reduces access to foreign aid, and excludes their territory from international legal frameworks, making it harder to secure foreign investment (Milhalkanian 2004; Caspersen 2013: 40-45).\(^6\)

The home state bears costs of non-settlement as well, although they are not as high as those facing the unrecognized state. Instability in the border region and the diversion of military resources to monitor the \textit{de facto} border are costly, as is maintenance of economic sanctions against the unrecognized state. In Azerbaijan, where an oil boom sent GDP

\(^4\)Abkhazia, Ngorno-Karabakh, Transnistria, Somaliland, South Ossetia, and the Turkish Republic of Northern Cyprus.

\(^5\)See Zacher (2001) on the norm of territorial integrity.

\(^6\)Transnistria represents a case where the gains from smuggling, particularly for the elite, may have outweighed these other economic costs in the 1990s (King 2001). However, as Moldova deepens ties with the EU, Transnistria’s lack of access to EU markets and EU aid becomes a much larger relative cost to bear (Tudoroiu 2011).
soaring in the mid-2000s, the unresolved secessionist conflict in Nagorno-Karabakh led a massive military buildup to take precedence over other government spending. Foreign investors are more wary of investing in states that do not effectively control their own territory, and there are diplomatic costs as well. For Georgia, failure to resolve its outstanding secessionist conflicts has hindered progress toward NATO accession.

The purpose of this paper is to identify the mechanisms that sustain unrecognized statehood as a stable equilibrium and to evaluate potential strategies through which actors may preserve the stability of this equilibrium, or disrupt it by inducing war or negotiated settlement. While there are many game theoretic treatments of civil conflict, we believe ours is the first formal model in which unrecognized statehood is addressed as an outcome.

We develop a novel, four-player model that focuses on the core conflict between the home state and the secessionist elite, but also incorporates the actions of outside states with interests in the outcome. These outside actors are a patron, which prefers independence to reunification, and a fourth player we denote as player \( c \) who represents one or more members of the international community. Player \( c \) is assumed to prefer reunification to independence.

The game is infinitely repeated and proceeds as follows. At the beginning of each period, the payoffs for the secessionists from unrecognized statehood—to which we refer as the status quo—deteriorate by a fixed amount, representing the ongoing costs of non-recognition. Next, the patron and international community can, in turn, make investments to augment the payoffs of the home state government and the secessionists. Finally, the home government and secessionists play a simultaneous stage game in which each decides whether to initiate conflict, maintain the status quo of unrecognized statehood, or cede the issue of status.

We provide a set of conditions under which perpetual unrecognized statehood is the outcome of a subgame-perfect equilibrium of this game. Somewhat counterintuitively, in this equilibrium a patron will expend resources every period if necessary to sustain the

\[ \text{Military spending increased 51% in 2004-2005, and went up another 82% in 2006 (International Crisis Group 2007)} \]
status quo of unrecognized statehood even when the patron would prefer that the secessionists achieve recognized independence. This occurs when the international community’s preferences against recognition are sufficiently strong—as is almost always likely to the case—to make it prohibitively expensive for the patron to facilitate recognition in the face of counteractivity by the international community.

In the end, the status quo outcome is observed when the patron—who faces a much tighter budget constraint—outspends an international community with access to a much larger pool of resources. This occurs because each outside actor’s willingness to pay to achieve its most preferred outcome is outstripped by the other’s desire to avoid its least desired outcome. We are left with an unresolved conflict with no clear winner, and even if there is no official loser, all parties pay significant costs.

We go on to analyze a tool that has been one of the most frequently employed by the international community in these types of territorial disputes: economic and military sanctions. We show that, although the goal of such sanctions is presumably to encourage secessionists to cede the issue of status, their most pronounced effect is to increase the range of conditions under which war occurs. In contrast, we argue that members of the international community (player c) are capable of intervening through other means to overcome the influence of the patron and induce settlement if they are sufficiently motivated to do so. Policy options include the enforcement of bargains and the granting of positive inducements for settlement, rather than direct pressure on the unrecognized state via sanctions.

1.1 The Empirical Landscape

The contributions of this paper are primarily theoretical, but it is useful to introduce the empirical landscape that informs our model. Table 1 catalogs the post-WWII cases of unrecognized statehood, separated according to their current status. We define unrecognized states as territories in which a non-state actor controls territory, governs a population, and seeks but does not receive broad recognition as an independent state.\(^8\) All six current un-

\(^8\)This excludes, for example, the territories governed by FARC in Colombia because FARC does not seek recognized statehood and includes cases, like South Ossetia, where recognition is obtained by only a handful
recognized states have now been unrecognized for over twenty years.

Table 1: Current Status of Militarily Successful Secessions

<table>
<thead>
<tr>
<th>Unrecognized States (Recognized by fewer than 10 UN members)</th>
<th>Partially recognized states (Recognized by more than 10 members, but not the home state)</th>
<th>Rejoined home state following military defeat of secessionists</th>
<th>Rejoined home state in negotiated settlement</th>
<th>Recognized by the home state</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Abkhazia</td>
<td>• Kosovo</td>
<td>• Anjouan²</td>
<td>• Ajara</td>
<td>• Bangladesh</td>
</tr>
<tr>
<td>• Nagorno-Karabakh</td>
<td>• Taiwan</td>
<td>• Biafra</td>
<td>• Bouganville</td>
<td>• Eritrea</td>
</tr>
<tr>
<td>• Somaliland</td>
<td>• Palestine²</td>
<td>• Chechnya</td>
<td>• Gagauzia</td>
<td>• South Sudan</td>
</tr>
<tr>
<td>• South Ossetia</td>
<td>• Polisario Front</td>
<td>• Croatian Republic of Herzeg-Bosnia</td>
<td>• Moheli</td>
<td></td>
</tr>
<tr>
<td>• Transnistria</td>
<td></td>
<td>• East Turkistan Republic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Turkish Republic of Northern Cyprus</td>
<td></td>
<td>• Hyderabad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Western Sahara</td>
<td></td>
<td>• Katanga</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Western Bosnia</td>
<td></td>
<td>• Republic of Mahabad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Western Bosnia</td>
<td></td>
<td>• Tamil Eelam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Western Sahara</td>
<td></td>
<td>• Republika Srpska</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Western Sahara</td>
<td></td>
<td>• Republic Srpska-Krajina</td>
<td></td>
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</tr>
<tr>
<td>• Western Sahara</td>
<td></td>
<td>• Western Bosnia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Western Sahara</td>
<td></td>
<td>• Western Sahara³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Palestine is recognized by about 100 states, but has only permanent observer status at the UN, the same status accorded the Vatican.
2 Anjouan separated from the Comoros on two occasions: first in 1997 and again in 2007. The first separation ended in negotiated settlement. The latter separation lasted less than a year and ended in military defeat of the secessionists.
3 All but a tiny portion of the territory claimed by the Polisario Front is under the control of Morocco: nonetheless, some states still recognize the territory’s independence.

Of those cases in the table, all but Moheli controlled territory and govern(ed) populations for at least two years. These cases represent the most successful cases of attempted secession in the Post-WWII era, and yet eventual military defeat by the home state is still the modal form of resolution. Recognition by the home state is similarly rare, occurring in only three cases and never except as a direct result of concessions won on the battlefield. In cases where recognition by the home state or the right to a referendum on independence is not secured as part of the initial peace agreement, it has not historically been forthcoming. Only four cases of negotiated reunification are observed: secessionists who are strong enough to...
secure and retain territorial control are rarely willing to surrender their independence at the bargaining table, even though the chances of eventual recognition are vanishingly slim. Thus, the number of long-running, costly stalemates has been substantial, most of them eventually ending in military reconquest by the home state.

1.2 Unrecognized States in the Literature

The political science literature on civil war is focused primarily on war onset, war intensity and duration, and the durability of post-conflict peace. Unrecognized statehood does not fit neatly into these areas of study because, while unrecognized states begin, and often end, through violent conflict, periods of unrecognized statehood generally contain little, if any, fighting. Unrecognized states also fall outside most treatments of state formation, because most unrecognized states never achieve recognition (or have not achieved it yet).9

The first literature to address unrecognized states directly was grounded in comparative politics, and a robust area-studies literature exists around each of the current cases of unrecognized statehood.10 More recent literature has addressed wider ranges of cases and made important conceptual progress identifying patterns and commonalities across cases (e.g. Pegg 1998; Kolstø 2006; Geldenhuys 2009; Caspersen and Stansfield 2011; Caspersen 2013). However, the literature continues to lack a clear general theory specifying the conditions under which this outcome emerges and persists.

One of the major contributions of this article is to provide a unified analytic framework for understanding the mechanisms sustaining unrecognized statehood as a stable equilibrium. By modeling unrecognized statehood formally, we move away from a case-by-case treatment toward development of a rigorous general theory. The model allows us to assess the conditions under which unrecognized statehood persists, and those under which war and negotiated settlement occur. It also allows us to evaluate various strategies available

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9For example, Roeder (2007) treats unrecognized states simply as failures to gain recognized statehood, not as outcomes to be analyzed in their own right.

to actors, particularly states and coalitions of states who want to facilitate a peaceful and permanent resolution.

Although we are not aware of any formal models of unrecognized statehood there is a growing economics literature that employs game theoretic models of conflict. An early model of territorial disputes in which the divisibility of the contested territory is an important parameter is Grossman (2004). In Hirschleifer, Boldrin and Levin (2009), conflict can be avoided when there is common knowledge, a common rate of time preference, and players can make a series of small concessions. In our context, the contested territory is indivisible; this implies that peace would require very large concessions so that this pathway of using small compromises to avoid conflict is not available.

In contrast to Bueno de Mesquita (2013), which exemplifies a class of literature that examines how rebel groups make decisions about resistance strategies, we begin our analysis at the point where initial rebellion has already been successful to the point of gaining de facto control of the disputed territory.

Another strand of the literature explicitly models the bargaining process between potential adversaries, either with asymmetric (Yared 2010) or complete information (Jackson and Morelli 2007, Schwartz and Sonin 2008, Beviá and Corchón 2010, McBride and Skaperdas 2014). Acemoglu, Golosov, Tsyvinski and Yared (2012) develop a dynamic model of resource wars featuring limited commitment. We abstract from questions of resource allocation and bargaining in order to focus on the dynamics created by the involvement of outside players: in the case of unrecognized states, the international community and patron states.

We next turn to presenting the model. In Section 3, we present a set of conditions under which unrecognized statehood is a stable, long-run equilibrium outcome. In Section 4, we analyze the potential effects of sanctions on the resolution of territorial disputes while Section 5 explores extensions of the model. Section 6 evaluates policy implications of the model, assessing various strategies available to outside actors that seek to induce their preferred outcomes. Section 7 concludes.


2 A Model of Unrecognized Statehood

We model a dispute over a piece of territory that is controlled by a secessionist group and also claimed by a home state. The central issue of contention, independence vs. reunification, is both difficult to divide and highly valued by both sides. The secessionists seek recognized statehood, the home state seeks reunification, and these demands do not vary over time. The side payments that can be offered in exchange for the opponent’s surrender of the independence/reunification issue are sharply limited by the absence of large concessions that can credibly be made (Walter 1997, 2002; Schultz 2010).

A major innovation of our model is the introduction of international actors. While the role of outside actors in determining the duration and outcome of civil conflicts is well documented (e.g., Elbadawi and Sambanis 2000; Regan 2002; Balch-Lindsay, Enterline, and Joyce 2008), the role of these actors has not been incorporated into the modeling of these conflicts.\textsuperscript{11} This is true even of work that addresses the role of outside actors as potential third-party enforcers (Walter 1997, 2002).

The model presented here allows us to both articulate the mechanisms that create these persistent stalemates and to assess the consequences, intended and otherwise, of outside actors’ attempts to foster their desired outcome.\textsuperscript{12}

2.1 The Players

We construct a model with four players: the secessionist elite (s); the central government of the home state (g) from which s is attempting to secede; and two other players, the patron (p) and the international community (c). The latter two are outside actors—states, groups of states and/or individuals acting in concert—that have interests in the outcome of the attempted secession.

Player c prefers reunification to recognized independence—a preference that is common

\textsuperscript{11}One exception is van Houten (1998), who models the patron state (“reference state”) as a player in ethnic conflicts but otherwise takes an approach quite different from ours.

\textsuperscript{12}For another example of the strategic manipulation of decision-makers into (and out of) conflict see Baliga and Sjostrom (2012).
to most states, and especially among those that fear the prospect of secessionist movements within their own borders. As discussed earlier, most states in the international system prefer any given secessionist conflict to be resolved by reunification. In practice we believe that in most cases there are many states that may act as player c in our model, and often we observe groups of states like the OECD or the UN acting in this capacity.

Player $p$ most prefers recognized independence, aligning its interests with the secessionists. We refer to $p$ as the patron because $p$ contributes resources to the unrecognized state in the status quo equilibrium. Patrons choose to contribute resources to secessionists for one or more of several reasons: 1) As an efficient mechanism for imposing costs on the home state (Salehyan, Gleditsch and Cunningham 2012), e.g. as Russia does to Georgia via South Ossetia and Abkhazia; 2) ethnic solidarity with the secessionists (e.g. Turkey’s support of the Turkish Republic of Northern Cyprus); 3) hope of eventual annexation of the disputed territory (e.g. Armenia’s support of Nagorno-Karabakh).\(^{13}\)

We acknowledge that there may exist patrons whose most-preferred outcome is the status quo. This naturally makes a status quo equilibrium easier to achieve, as there is an actor who strictly prefers the status quo and can expend resources to make it more likely. We choose to examine the case where the patron’s most preferred outcome is independence because this is the condition under which the status quo is least likely. Even in this circumstance, the status quo remains an equilibrium outcome.

2.2 Timing and Structure of Interaction

The game begins at a status quo in which the secessionist elite controls at least some of the disputed territory, but cannot gain international recognition unless the central government cedes its claim to the territory. This condition is archetypical of cases in which a militarily successful war of secession ends in a ceasefire.

\(^{13}\)While annexation is appealing to many patrons (and some unrecognized states), annexation is not an outcome we model. International norms against irredentism are strong, and the costs of annexing an unrecognized state appear to be prohibitively large in most cases (e.g. Zacher 2001). Prior to Russia’s annexation of Crimea, all post-WWII cases of annexation involved the annexation of colonial territory, rather than parts of the metropole. Israel’s occupation of the Golan Heights and the West Bank are possible exceptions here.
Figure 1: Timeline

The payoff functions and all parameters, including probabilities in the war lottery, are common knowledge for all players, and actions are immediately observed by all players at the time they occur. There are an infinite number of periods $n = 1, 2, \ldots$, with play proceeding until an absorbing state is reached.

Future payoffs are discounted with parameters $\delta_i$, where $1/\delta_i$ is player $i$'s discount rate for $i \in (g, s, c, p)$, $0 \leq \delta_i \leq 1$. Therefore payoffs for the entire game for player $i \in \{s, g, p, c\}$ can be expressed by the discounted stream of payments $\sum_{n=1}^{\infty} U_{in} \delta_i^{n-1}$.

In each period, play proceeds as follows:

1. The status quo payoffs for $s$ are reduced by $\mu$.

2. $p$ chooses a level of resource expenditure $R_{pn} \in \mathbb{R}^+$ in period $n$ and invests it to alter the payoffs of players $s$ and/or $g$.

3. $c$ chooses a level of resource expenditure $R_{cn} \in \mathbb{R}^+$ in period $n$ and invests it to alter the payoffs of players $s$ and/or $g$. 

Start of a new round
4. $s$ and $g$ play a stage game in which each chooses simultaneously from the following actions: \{Fight, Status Quo, Cede\}.

In order to fully describe the structure of the game, we first introduce the stage game payoffs.

### 2.2.1 Stage Game Payoffs

Stage game payoffs for players $s$ and $g$ in period $n$, gross of investments by players $p$ and $c$, are:

<table>
<thead>
<tr>
<th>$g$ ↓, $s$ →</th>
<th>Fight</th>
<th>Status Quo</th>
<th>Cede</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fight</td>
<td>$\Omega_n$</td>
<td>$\Omega_n$</td>
<td>$W_{gn}, L_{sn}$</td>
</tr>
<tr>
<td>Status Quo</td>
<td>$\Omega_n$</td>
<td>$Q_{gn}, Q_{sn}$</td>
<td>$W_{gn}, L_{sn}$</td>
</tr>
<tr>
<td>Cede</td>
<td>$L_{gn}, W_{sn}$</td>
<td>$L_{gn}, W_{sn}$</td>
<td>$Q_{gn}, Q_{sn}$</td>
</tr>
</tbody>
</table>

Figure 2: Stage Game Payoffs

If either $s$ or $g$ plays Cede while the other plays Fight or Status Quo, the game enters an absorbing state (i.e. the game ends), with payoffs in every subsequent period given by the corresponding entry in the stage game (Figure 2). We interpret one player ceding as that player ceding the issue of status (independence vs. reunification) in exchange for some set of (relatively small) payments from the opposing player. For example, if the secessionists cede, the secessionist region is reunified with the home state and the payoffs are $L_s$ for the secessionists and $W_g$ for the home state. Therefore, if one player agrees to cede while the other player chooses to remain in the status quo or fight, the result is a negotiated settlement benefiting the player who did not cede.

If both states simultaneously play Cede, we assume that both renege immediately and that the status quo is preserved for that period. In this case neither player has demonstrated a willingness to give up more than the other. Therefore, payoffs for both players ceding simultaneously are identical to the status quo payoffs.
There are three ways to end up in war: either of the parties may attack first, or both may attack simultaneously. We denote the payoffs of war as a lottery $\Omega$\textsuperscript{14}. This lottery determines one of three potential outcomes: outright victory by either of the players, which are both absorbing states, and an indecisive war where costs of war are borne but then the game returns to the status quo in which the game continues to the next period. Outright victory would, among other things, allow an unrecognized state to force recognition by the home state government. Therefore, outright victory requires more than simply securing control of the disputed territory (which the secessionists have already done when the game begins) and requires the ability to impose the terms of settlement. In practice, this likely involves the capture of the home state capital and/or the overthrow of the home state government.

For probabilities $p_1$ of outright victory, $p_2$ of loss and $1 - p_1 - p_2$ of non-decisive war, player $i \in \{s, g\}$ in period $n$ with a fixed cost of war $\zeta_i$ faces war lottery $\omega_{in} \equiv (p_1(W_{in} - \zeta_i), p_2(L_{in} - \zeta_i), (1 - p_1 - p_2)(Q_{in} - \zeta_i))$. $\Omega_n \equiv (\omega_{gn}, \omega_{sn})$\textsuperscript{15}. Players are assumed to approach war lotteries as expected values.

If both $s$ and $g$ play Status Quo, then the status quo persists. The status quo payoffs for the secessionists are modeled as steadily declining due to the costs of non-recognition discussed in the introduction. As the economy in the secessionist region deteriorates, so does the standard of living for the secessionists. Therefore, the payoffs from the status quo, in the absence of other actions, are given by $q_{s,n+1} = Q_{s,n} - \mu$. Lower case letters denote beginning-of-period quantities net of investments by outside actors, while upper case letters denote end-of-period quantities gross of such investments. Other payoffs remain unchanged from period to period; they can only be altered by the investments of players $p$ or $c$, e.g. $L_{s,n} = l_{s,n} + R_{p,n} + R_{c,n}$ and $l_{s,n+1} = L_{s,n}$, likewise for player $g$ and for the payoffs from winning for both players and the status quo for player $g$.

\textsuperscript{14}Because the unrecognized state already controls territory and the de facto borders are armed, there is likely only a small advantage to be gained by attacking first for either side. Therefore, we argue it is not essential to differentiate between these war scenarios analytically.

\textsuperscript{15}Baseline costs of war are fixed ($\zeta_i$) but additional costs of war based on war’s result are captured in $W_i$ and $L_i$. 

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2.2.2 Payoffs for the Patron and International Community

At the start of each period, the patron, \( p \), and player \( c \) may invest resources to affect the payoffs of \( s \) and \( g \) in the stage game. For example, if \( p \) expends resources \( R_{pn} \) to increase the secessionists status quo payoffs, the beginning-of-period payoff \( q_{sn} \) becomes end-of-period payoff \( Q_{sn} = q_{sn} + R_{pn} \). We can write analogous expressions for \( q_{gn}, l_{sn}, l_{gn}, w_{sn}, \) and \( w_{sn} \), and the international community can also make investments to increase whichever of these payoffs they like. \( B_{pn} \) denotes the total that the patron can devote to interceding in the conflict; we assume that player \( c \), which is often a large coalition of states, does not have a binding budget constraint.

We assume player \( c \) prefers peace to war. For simplicity, we limit our modeling of \( c \)'s preference for peace to the assumption that \( c \) will not choose to fund a military buildup that it expects will induce war. This assumption is not necessary for the basic results to hold; however, it justifies our decision not to address military support of armed reconquest by the home state as a deliberate strategy by \( c \) to achieve reunification.

We use two binary variables to express the preferences among the three outcomes (status quo, reunification, recognition by the home state) for both \( p \) and \( c \). \( X \) is a binary variable representing reunification: \( X = 0 \) in the status quo and \( X = 1 \) if the secessionists rejoin the home state. \( Y \) represents recognition by the home state of the secessionists' independence: \( Y = 1 \) if the home state recognizes the secessionists as independent, \( Y = 0 \) otherwise.

Player \( p \)'s payoffs in period \( n \) are \( U_{pn} = \alpha X + \lambda Y - R_{pn} \), while the payoffs for player \( c \) are \( U_{cn} = \beta X + \nu Y - R_{cn} \), with both payoffs denoted in currency units.

The patron opposes reunification while player \( c \) prefers it, so \( \alpha \) is negative and \( \beta \) is positive. The patron prefers recognized independence so \( \lambda \) is positive. Player \( c \) is averse to the creation of new states so \( \nu \) is negative.

The relative strengths of the patron and player \( c \)'s preferences determine their willingness to spend resources. As we will show, unrecognized statehood emerges as an unhappy but stable middle ground in which all players avoid their least preferred outcomes.
2.2.3 The Low Payoffs from Ceding

Aside from the central assumption that the government of the home state most prefers reunification and the secessionists most prefer independence accompanied by international recognition, we will for the most part leave the model general enough to incorporate a range of preferences and capabilities for players $g$ and $s$. We do, however, assert that the payoffs for the party that cedes the issue of status (independence vs. reunification) are consistently low. This reflects a combination of two factors. First, the issue of status is indivisible\textsuperscript{16} and highly valued by each side, making its surrender undesirable. Various forms of ethno-nationalism often motivate secession, and the values attached to independence by secessionists (and to reunification by citizens of the home state) are generally large relative to the values placed on economic prosperity and other goals. Second, many of the payments that could be offered are not credible (e.g. Schultz 2010).

The difficulty of making credible payments in exchange for status is one clearly demonstrated in the civil war literature (e.g. Licklider 1995; Walter 1997, 2002; Fearon and Laitin 2007; Doyle and Sambanis 2006). Unrecognized states generally constitute “sons of the soil” conflicts in which the central government cannot credibly commit to preserving the local demographic and political dominance of the secessionist elite once the disputed territory reverts to central government control (Weimer 1978; Fearon 2004). While the central government might initially grant the secessionist elite a high level of autonomy in exchange for agreeing to reunification, the level of autonomy is likely to decrease over time, perhaps quite quickly. The payments that can be offered by the unrecognized state to the central government are similarly small or unenforceable: once recognition is achieved, the secessionists have little reason to uphold any prior commitments.

The case of Gagauzia illustrates the commitment problem nicely. Gagauzia achieved de facto independence at the time of the Soviet Union’s collapse, but agreed to rejoin Moldova in 1994 as an autonomous region. While Gagauzia was granted substantial autonomy under the Moldovan Law on the Special Legal Status of Gagauzia, when the governor of Gagauzia,

\textsuperscript{16}Either the unrecognized state has sovereignty over its territory and is co-equal with the home state, or the secessionist region (and its government) are subordinate to the central government.
Dmitrii Croiter, moved to assert these powers in 1999, the Moldovan government balked. By 2002, Croiter was forced to resign, effectively deposed by the Moldovan government. The Moldovan government jailed a number of other Gagauz politicians, and while de jure Gagauz autonomy was enshrined in the Moldovan constitution in 2003, the de facto level of autonomy has been limited by continued central government meddling in less-than-free regional elections. The payoffs to Gagauzia for ceding have turned out to be quite low, and a similar fate can rationally be expected by other unrecognized states who choose to cede.

3 Explaining Outcomes of Secessionist Conflicts

Despite the preferences of the international community for peace, the most common outcome of secessionist conflicts in the post-WWII period has been reunification with the home state via outright military reconquest. By contrast, reunification through negotiated settlement has been very rare. We will explore potential explanations for this seeming inability of the international community to achieve its aims in Sections ?? and ??.

3.1 Analysis of the “Status Quo” Equilibrium

Unrecognized states are frequently viewed as temporary phenomena or as non-equilibrium outcomes attributable to players’ misperceptions of the strategic situation, or their fundamental irrationality. Our central result shows that unrecognized statehood can be an equilibrium outcome capable of being sustained in perpetuity by fully rational, perfectly informed actors. This is true even when there is no actor that prefers unrecognized statehood as a first-best outcome.

**Proposition 1:** There exists an equilibrium in which the outcome is perpetual unrecognized statehood. The actions in this equilibrium are for p to invest to create a buffer of $\beta \frac{1}{1-\delta_c}$ between the payoffs from ceding and the status quo in the first period and to invest up to $\mu$ each period thereafter to maintain the buffer; for c to pay nothing; and for both...
g and s to play Status Quo each period.

The following are sufficient conditions for such an equilibrium:

1. For both players g and s, $Q_{in} \geq L_{in} \forall n$: in each period, remaining in the status quo is better than ceding.

2. For both players g and s, $\frac{Q_{in}}{1-\delta_i} \geq -\zeta_i + \frac{L_{in}(p_2)+W_{in}(p_1)+Q_{in}(1-p_1-p_2)}{1-\delta_i} \forall n$: in each period, the expected outcome under war is worse than the status quo.

3. $\frac{-\alpha}{1-\delta_i} \geq \frac{\beta}{1-\delta_i}$: reunification is more important for the patron to avoid than for the international community to achieve.

4. $\frac{-\nu p_{1s}}{1-\delta_c} \geq \frac{\lambda p_{1c}+\mu}{1-\delta_c} + \frac{\beta}{1-\delta_c}$: recognition of the secessionist state is more important for the international community to avoid than for the patron to achieve.

5. $B_{p1} \geq \frac{\beta}{1-\delta_c} - (q_{s1} - l_{s1})$: the patron can afford to deter player c from inducing reunification at the beginning of the game.

6. $B_{pn} \geq \mu, \forall n > 1$: the patron can afford to pay to maintain the status quo.\(^\text{17}\)

These conditions for the status quo are sufficient but not necessary. For example, if the status quo initially has a much higher long term payoff than the next best alternative for the secessionists, Condition (6) need not be met to maintain the status quo in the short run. The inequality will bind for some set of periods $n \geq 1$ because the secessionist payoffs from the status quo decrease over time. In cases where condition (6) is not met, we can have unrecognized statehood for some time, but it is not a long-run equilibrium outcome.

There are many other potential equilibrium outcomes of this game, including, under the right parameters, immediate ceding by either party as well as fighting (see Section ??). As we are interested particularly in the outcome of long-term unrecognized statehood, here we focus on the question of the existence of an equilibrium that leads to this outcome in perpetuity. We will use the solution concept of subgame perfect equilibrium to show that,

\(^\text{17}\)Depending on parameters, condition (5) is more likely to be binding than condition (6). If there is great variance in budget between periods for the patron, such as a greatly reduced budget in some period $n > 1$ compared to period 1, (6) could be binding.
given the sufficient conditions in Proposition 1, at least one status quo equilibrium will exist.

**Proof of Proposition 1**

Recall that each period is composed of three action stages: player $p$’s investment decision (stage 1), player $c$’s investment decision (stage 2), and the simultaneous game between players $g$ and $s$ (stage 3). Although period $n$ may be reached because in period $n - 1$ fighting resulted in a stalemate, both players ceded, or the status quo had been maintained, the strategic landscape in period $n$ is the same. Thus all periods in which the players are able to move are in an equivalence class in which the only possible strategic difference is in the value of the state variables.

Analysis of the posited equilibrium proceeds most naturally by backward induction within each period. Thus we begin with the stage game between the government and secessionists.

**Lemma 1:** Conditions 1 and 2 are sufficient for status quo to be the outcome of Stage 3 in any period.

The proofs of the lemmas are in the Appendix.

Lemma 1 establishes ranges for the payoffs for players $g$ and $s$—gross of investments by the outside players—in which the status quo outcome can occur. The rest of this section tackles the more difficult task of determining the incentives and actions of the outside actors—that is, the patron state and the international community—to impact those payoffs.

To begin, note that either outside actor could invest toward increasing any of the six state variables in a period: $q_{sn}, q_{gn}, w_{sn}, w_{gn}, l_{sn}$, and $l_{gn}$.\(^\text{18}\) It is not necessary to focus on which investment vehicle is optimal for a government to choose; what is essential is to determine which outcomes—i.e. Recognition, Status Quo, or Reunification—they will target given that they will choose the most efficient way to alter the payoffs of players $s$ and $g$.

\(^\text{18}\)In the case of $w_{sn}$ and $w_{gn}$, it is more intuitive to imagine investments increasing the probability of winning a war; because the lottery is additively separable and the “Win” outcome is always preferred when it occurs independently in the stage game, this more convenient modeling choice is inconsequential.
Lemma 2 addresses potential efforts by the international community to influence the outcome toward Reunification:

**Lemma 2:** When Condition 3 holds, the patron’s willingness to invest to maintain the status quo is sufficient to deter the international community from intervening to encourage reunification.

Condition 3 provides a bound on the amount that player $p$ must be willing to invest each period in order to prevent player $c$ from contesting the status quo outcome. To complete the equilibrium construction, we must determine the utility maximizing investments by $p$ and conditions to ensure that it is able to make those investments.\(^{19}\)

Consider period 1. When Condition (4) holds, the patron will want to invest just enough to create a buffer of $\frac{\beta}{\gamma}$ between $Q_{s1} (= q_{s1} + R_{s1})$ and $l_{s1}$ so that $c$ will not invest. That is, in equilibrium, $R_{p1} = \frac{\beta}{\gamma} - (q_{s1} - l_{s1})$ as long as $p$ can afford to make this investment. Thus we need Condition (5): $B_{p1} \geq \frac{\beta}{\gamma} - (q_{s1} - l_{s1})$, where $B_{p1}$ is the amount $p$ has available to spend on the conflict in period 1.

In periods $n > 1$, there are two cases to consider. Either (a) the buffer created in period $n - 1$ was precisely the necessary $\frac{\beta}{\gamma}$, or (b) the buffer is larger than $\frac{\beta}{\gamma}$. In case (a), the patron must spend exactly $\mu$ to offset the degradation in the status quo payoffs and re-establish the buffer of $\frac{\beta}{\gamma}$.\(^{20}\) In case (b), the patron can spend less than $\mu$ in period $n$. However, because in each period $q_{sn}$ degrades by $\mu$, eventually the buffer will be reached and we will be returned to case (a). Again, assuming Condition (3) holds, the patron will want to make this investment if its budget allows, and so a sufficient condition is that $p$’s budget is at least as large as $\mu$ in every period $n > 1$(Condition 6).

With the equilibrium status quo investments determined, we can proceed to Lemma 3, which rules out spending for or against recognition of the secessionist state:

**Lemma 3:** When Condition 4 holds, the international community’s willingness to in-

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\(^{19}\)Efforts by the patron to create the conditions for the Recognition outcome are addressed in Lemma 3 once the equilibrium investments are established.

\(^{20}\)A third case in which the buffer is smaller than $\frac{\beta}{\gamma}$ provides lower welfare to player $p$. Conditions (3) and (5) ensure that player $p$ can avoid this case.
vest to avoid recognition of the secessionist state is sufficient to deter the patron from investing to achieve recognition.

In the equilibrium under consideration here, the patron will invest to maintain an outcome that is not its most preferred, but it will not invest to achieve its most preferred outcome. This behavior may appear counterintuitive, but we frequently observe patron states whose preferred outcomes are recognized independence for the secessionists who nonetheless contribute resources to sustain a status-quo outcome that is costly to all involved. The patron does not attempt to contribute sufficient resources to force recognition by the home state because doing so would induce offsetting expenditures by the international community to prevent this outcome.\textsuperscript{21}

One last possibility is ruled out by Lemma 4: that the patron would invest to encourage the secessionists to fight.

\textbf{Lemma 4:} Conditions 3 and 4 ensure that the international community’s willingness to invest to discourage new conflict is sufficient to deter the patron from investing to instigate such fighting.

Note that this result depends on an implicit assumption that the patron is not able to skew the odds of the secessionists winning the conflict in a way that cannot be nullified by the international community. All other conflict scenarios are ruled out by the international community’s assumed preference to avoid conflict.

Thus, given Conditions (1)-(6) hold, equilibrium strategies for each period in this status quo equilibrium are:

- Player $p$ spends more than $c$ is willing to invest to ensure the incentives for the status quo outcome are in place in period $n$ whenever this is affordable. That is, $p$ invests $R_{pn} = \max \left\{ 0, \frac{\beta}{1-\epsilon_c} - (q_{sn} - l_{sn}) \right\} \leq B_{pn}$. If this inequality is violated, $p$ invests nothing.

\textsuperscript{21}We do not provide conditions on the budget of player $c$ similar to Conditions (5) and (6): since the size of the international community relative to any particular country is large, it can be assumed that a budget constraint does not bind.
• Player \( c \) invests \( R_{cn} = \frac{\beta}{1 - \delta_c} - (Q_{sn} - l_{sn}) \) if \( \frac{\beta}{1 - \delta_c} > (Q_{sn} - l_{sn}) \). Otherwise, it invests nothing.

• Players \( s \) and \( g \) play Status Quo as long as it yields the highest continuation value, and play Cede or Fight if continuation values from either exceeds the status quo continuation value.

Equilibrium actions are for \( p \) to maintain the status quo by investing \( \mu \) each period once the difference in payoffs to \( s \) from playing Status Quo and Cede reaches \( \frac{\beta}{1 - \delta_c} \) (with a possible lump sum investment at \( n = 1 \) of up to that amount); for \( c \) to not invest and for both \( g \) and \( s \) to play Status Quo each period.

By contributing \( \mu \) in each period, the patron supplies sufficient resources to the unrecognized state to ensure that the secessionist elite prefers the status quo to surrendering independence.

### 3.2 Discussion

The existence and durability of this not-infrequently observed status quo equilibrium is counterintuitive on two levels. First, the large, relatively rich international community is outspent by a relatively small, less-resourced patron; second, unrecognized statehood is a stable equilibrium in spite of being undesirable to all players. The key condition leading to this outcome is that each outside actor’s willingness to pay to achieve its most preferred outcome is out weighed by the other’s desire to avoid it’s least desired outcome. An ongoing unresolved conflict results.

Despite its high costs, this equilibrium is quite robust. Because player \( c \) and the patron can adjust contributions to reflect changing conditions on the ground, exogenous shocks that might otherwise have the potential to alter the equilibrium have their strategic impact nullified. For example, while a drought in the unrecognized state might decrease the secessionist elite’s payoffs from the status quo and increase their need for international trade and assistance, additional humanitarian and economic assistance from the patron can offset the effects of the shock and preserve the status quo. Likewise, if the home state gains military
strength, altering the probabilities in the war lottery, the patron can offset these changes by providing arms or otherwise investing in the defenses of the unrecognized state. See further discussion along these lines in Section ??.

3.3 Alternative Outcomes

The conditions of Proposition 1 do not provide for a unique equilibrium, or even a unique equilibrium outcome. In fact, at least one additional equilibrium outcome always coexists with the status quo outcome.

If the payoffs from Fight are strictly greater than the payoffs from Cede for both players, then (Fight, Fight) will be the only additional equilibrium outcome. If this inequality holds for just one player, then we have only the additional outcome in which that player chooses Fight and its opponent cedes. If both players strictly prefer Cede to Fight, then both the (Fight, Cede) and (Cede, Fight) outcomes are added to the status quo outcome.22

There are at least two takeaways from the multiplicity of equilibrium outcomes. First, it indicates that there may be an important role for external actors to play in coordinating expectations about which equilibrium will be played, and in the absence of such coordination, equilibrium switching from the status quo equilibrium to one of the other outcomes is possible. Second, most of the types of outcomes that we observe in the post-WWII era are consistent with the set of parameters outlined in Proposition 1 that support the status quo outcome. In the next section, we turn to the use of sanctions by player c and the home state to attempt to force reunification.

4 The Impact of Economic Sanctions

In Section ??, we considered the outside actors’ abilities to make investments to increase the various payoffs of the home state government and the secessionists. The international community, in particular, often employs another option by joining the home state in enforcing

22In the case of any indifference, we get the relevant combination of (Fight, Fight), (Fight, Cede) and (Cede, Fight).
economic sanctions against the unrecognized state, an action that reduces the secessionists’ payoffs from the status quo (i.e. sanctions are equivalent to $R_{cn} < 0$). Note that this may be particularly effective if $c$ is a large coalition of states acting in concert.

Let us begin with the simplest case, in which the sanctions affect only the secessionists’ status quo payoffs, as when the imposition of sanctions has a negative impact on the economy of the unrecognized state. In the event that the secessionists cede or are defeated militarily, we presume the sanctions would be immediately lifted – the home state would not want to sanction itself. In the event the secessionists achieve military victory, we presume they are able to force the home state to lift the sanctions.\(^{23}\) Sanctions are not expected to affect the payoffs to either ceding or military victory and neither should the cost of fighting itself be negatively impacted.

Thus, sanctions serve only two purposes: to narrow the difference between the payoffs from Status Quo and Fight, and to narrow the difference between the payoffs from Status Quo and Cede. If the patron wishes to maintain the status quo, its per-period investment must increase to compensate for the additional degradation of the status quo payoffs caused by the sanctions. All of this implies that the effect of sanctions on the unrecognized state’s choice is not unambiguous. Proposition 2 lists necessary conditions for the existence of an equilibrium in which “ceding” is the equilibrium outcome once sanctions are introduced.

**Proposition 2:** Assume the conditions of Proposition 1 hold in the absence of sanctions and that sanctions affect only player s’s payoffs to maintaining the Status Quo. In order for sanctions to lead to ceding by the secessionists, the following are required:

1. The patron must either be unable or find that it is not worthwhile to invest the additional amount now required to maintain the status quo.
2. The patron must either be unable or find that it is not worthwhile to invest to instigate fighting by the secessionists.
3. The continuation value from playing Status Quo must fall below that from playing Cede before it falls below that from playing Fight.

\(^{23}\)Recall that our definition of military victory includes the ability to dictate the terms of settlement.
The proof of Proposition 2 is in the Appendix.

If condition (1) fails, player $p$ will continue to invest to prevent reunification as in Proposition 1. If conditions (2) or (3) fail, sanctions will lead to fighting initiated by the secessionists—either supported by the patron, or without its support in the case of condition 3. Note here from condition (2) that sanctions can induce investment behavior by the patron that was ruled out under the conditions of Proposition 1: the goal of sanctions is to destabilize the Status Quo equilibrium and they certainly can achieve that goal but there may be unintended consequences, most notably the initiation of war by the secessionists.

Thus, even if we do not consider the sanctions to impose any direct costs on the home state (though in practice they likely do), it remains ambiguous whether sanctions will benefit the home state. Recall that in the status quo equilibrium, the home state’s expected returns from war are lower than from a continuation of the status quo. If sanctions induce the secessionists to play Fight, this is a worse outcome for the home state than if the status quo had been allowed to persist.

Moving beyond this simple case, we can add realism by allowing sanctions to have a negative effect not only on the economy (the status quo payoffs) but also on the military capabilities of the secessionists (the expected payoffs from war). This is an important extension because one motivation for sanctions is often precisely that – to weaken the military capability of the secessionists.

In the model, this is represented as reducing (increasing) the secessionists’ probability of victory (loss) in the war lottery. This should serve to increase the range of parameters over which the conditions of Proposition 2 hold. However, at the same time, the home government experiences changes of the same magnitude and opposite sign in its war lottery, increasing its payoffs from playing Fight. The effect of sanctions on the home state’s strategic considerations is clear cut:

**Proposition 3:** Assume the conditions of Proposition 1 hold in the absence of sanctions and that sanctions affect both player $s$’s status quo payoffs and its military capabilities.

The parameter space over which a war will be initiated by the home state is increasing
in the magnitude of the sanctions’ impact on the secessionists’ military capabilities.

The proof of Proposition 3 is immediate. Although under the conditions of Proposition 1 the home state’s continuation value from maintaining the status quo is higher than from initiating conflict in the absence of sanctions, when those sanctions degrade the secessionists’ military capabilities they increase the chances that the home state would prevail in a conflict, thus increasing the home government’s continuation value from fighting. The stronger is the impact of sanctions on the secessionists military, the stronger is the effect on the home government’s value of fighting and the greater is the range of parameters over which this change in payoffs will lead to a change in behavior.

Thus, propositions 2 and 3 imply that sanctions are both wealth destroying and violence increasing. The sanctions destroy wealth directly by damaging the economy of the secessionist region and lowering the secessionists’ payoffs from the status quo. If the degradation of status quo payoffs are not offset by the patron and if the secessionists’ continuation value from fighting exceeds that from the status quo before the continuation value from ceding does, the secessionists will initiate war. Conversely, if the sanctions degrade the secessionists military capabilities sufficiently, it induces the home state to fight.

This logic is well illustrated by the case of Tamil Eelam, a territory in Northern Sri Lanka that existed as an unrecognized state from 1987-2009. Throughout the conflict, the Sri Lankan government used sanctions and blockades to reduce the secessionists’ status quo payoffs and degrade their military capabilities. However, the effects of these sanctions were offset by two patrons: India, during the early stages of the conflict, and the Tamil diaspora throughout. The disruption of the status quo equilibrium began in 2006, when the United States, European Union, Canada, and India formally designated the leading secessionist organization, the Liberation Tigers of Tamil Eelam (LTTE), as terrorists.24 This designation greatly strengthened the sanctions against the secessionists and led to a sharp decline in both the quality of life in Tamil Eelam and the military capabilities of the LTTE. In January 2008, the Sri Lankan government abrogated the existing ceasefire agreement and in 2009

24Other states then followed suit, including Australia in 2008.
it launched a full-scale military offensive that ended with a decisive victory over the LTTE and reunification of Tamil Eelam and Sri Lanka. While there were many factors at play, the strengthening of sanctions increased the home state’s probability of victory and thereby played a role in its decision to initiate a return to war.

Despite this potential for perverse effects, sanctions are a common tool of outside actors \((c)\), more common than aid and other positive inducements. A flow payment of carrots, even backed by the promises of a “neutral” third party, may not be credible in the eyes of the secessionists, which could explain the frequent resort to sticks.

5 Extensions

5.1 Introducing Uncertainty

The assumption of perfect information may be somewhat unrealistic, and here we explore adjusting the model to accommodate some uncertainty on the part of \(c\) and \(p\). Payoffs as described in the stage game are those perceived by \(g\) and \(s\). If these payoff values are not precisely known by \(c\) and \(p\), enough uncertainty may be present in order for both those players to contribute resources in equilibrium.

Here, \(c\) and \(p\) observe a random draw of the stage game payoffs, with each payoff drawn independently and with a mean matching the original stage game payoffs. After viewing these (uncertain) payoffs, \(c\) and \(p\) each invest some level of resources, altering the payoff structure before it is observed (accurately) by \(s\) and \(g\). Based on this altered payoff structure, \(c\) and \(g\) choose their strategies. Uncertainty can lead to outcomes where either \(c\) or \(p\) invests too much, wastes resources, or makes a more severe misstep, such as \(p\) investing too little and allowing reunification to occur.

In practice we expect that uncertainty is lower for the patron than for \(c\) because the patron is close to, and intimately involved in, the conflict and therefore may have a better grasp of the two players’ payoffs than do other outside states or groups. This makes over-contribution by \(c\) more likely than under-contribution by the patron.
In the equilibria constructed in Section ??, full information on all sides implies that one of the parties would, in equilibrium, not give any resources. By adding some uncertainty about payoffs, we can account for the observed fact that $c$ sometimes expends resources unsuccessfully. This type of spending can also be explained as non-strategic spending – i.e. spending aimed at goals other than promoting settlement, like pure humanitarianism.

5.2 Outside Interactions Between the Patron and $c$

The game that we model, with the control of the unrecognized state at stake, is only one of several strategic games in which the patron and $c$ may be interacting at any given time, and linkages between games are possible. We do not model any direct exchange of resources or imposition of harm between $c$ and the patron, but we take the implications of these possible outside interactions seriously. The willingness and ability of either party to contribute resources within the game we model may be affected by their interaction with one another in other contexts. As we will discuss in greater detail below, in a number of cases a patron has withdrawn support for an unrecognized state in response to pressure exerted by actors in the international community ($c$) in other venues.

5.3 If the Patron Withdraws Support

Support by a foreign patron is, in almost all cases, necessary for the persistence of unrecognized statehood (Kolstø 2006; Caspersen 2013). When there is no patron, or when the patron withdraws its support, military reconquest by the home state is likely. The only unrecognized state currently in existence which has been able to survive without a patron is Somaliland. Somaliland has been able to survive as long as it has because of the extreme weakness of the home state (Somalia).

The case of Chechnya is quite typical of unrecognized states without patrons. Chechnya fought and won its initial war of secession at a time when the home state (Russia) was in political and economic disarray following the collapse of the Soviet Union. As Russia gradually recovered and strengthened, Chechnya had no patron support to offset the relative
decline in its military capabilities. Over time the war lottery became progressively more skewed in favor of Russian victory, the payoffs to ceding for the Chechen secessionists remained extremely low, and the Russian government invaded and reconquered Chechnya in 1999.

It is worth exploring, however, the reasons why a patron might support a secessionist group during its initial rebellion and then withdraw support at a later date. Patrons’ strategic interests in the unrecognized state vary from patron to patron, and both budget constraints and salience of interest vary over time. Returning to the case of Tamil Eelam, domestic political concerns (primarily Tamil ethnic solidarity) induced a modest level of Indian support for the secessionists from 1983-1987. These domestic political concerns were eventually outweighed by broader strategic security concerns and a desire for regional stability. In 1987 the Indian government signed a peace accord with Sri Lanka (the home state) and largely withdrew their support from the secessionists.

As noted in the section on outside interactions between the patron and player $c$, the patron’s decision to withdraw support for the secessionists is sometimes motivated by interactions between the patron and $c$ that we do not model directly. Empirically, we observe a number of cases in which $c$ applies pressure directly to encourage the patron to withdraw support from the unrecognized state. In an extreme example involving both sanctions and direct military confrontation, NATO coerced Serbia into, among other things, withdrawing its support from Republika Srpska and Republika Srpska Krajina, both of which were then reconquered militarily.\footnote{For an excellent discussion of the case of Republika Srpska, see Zahar 2004.}

6 Policy Implications: Options for Player $c$

Sanctions imposed by the home state, often co-enforced by player $c$, aim to disrupt the status quo equilibrium and force the secessionists to cede. However, as Section ?? demonstrates, sanctions also increase the risk of war, something player $c$ prefers to avoid.

Fortunately, there is a better way. If instead of enforcing sanctions, player $c$ tries to
promote settlement by supplementing the payoffs from unification, it is able to induce negotiated settlement without simultaneously increasing the risk of war. This can be done either through promises of benefits to the unrecognized state provided directly by \( c \), like aid, or by a commitment from \( c \) to serve as a third-party guarantor of side payments promised by the ceding side: both directly increase \( L_i \) with the goal of raising it above \( Q_i \) for the player who will cede in the settlement. In the case of contingent promises of aid, the calculation is relatively straightforward: 1) the promise of aid must be credibly contingent on negotiated settlement, and 2) the aid offered must be valued more highly than the concessions required to reach an agreement. It is the second condition that is most problematic. Because both sides place such a high value on status (independence vs. reunification), even large amounts of aid are likely to be valued less than the concessions necessary to reach an agreement.

Serving as a third-party guarantor of autonomy rights is a way for player \( c \) to potentially overcome problems of indivisibility and commitment and help the parties reach a credible compromise on status (Walter 2002). However, this strategy is only tenable when the only impediment to settlement is the unenforceability of a bargain, and when \( c \) is credible as an enforcer of that bargain.

In Southern Sudan, third-party actors, including the UN, invested substantial resources to help negotiate a settlement to the initial war of secession and to ensure that the Sudanese government both allowed the promised referendum and respected its results. While the UN and others invested resources in Southern Sudan to enforce independence, not autonomy, they have demonstrated that outside actors are capable of enforcing difficult concessions by the home state government. This bodes well for the future credibility of organizations like the UN as third-party enforcers. However, the role of outside actors in enforcing other past agreements might give secessionists pause. For example, a referendum on independence in Western Sahara, which the UN ruled to be necessary more than thirty years ago, has never come to pass.\(^{26}\) Nonetheless, it is possible for an outside state or coalition to invest resources to enforce agreements, allowing for negotiated settlements that would otherwise

\(^{26}\)For a thorough analysis of the Western Sahara case, see Zunes and Mundy (2010).
be impossible to reach.

To show that it is possible for an actor like player c to enforce the terms of negotiated agreements at a reasonable cost is not sufficient to imply that such an outcome is likely. The political will necessary to achieve success in Southern Sudan was motivated largely by the magnitude of the atrocities that accompanied the war of secession, and enforcement was made credible, in part, due to the weakness of Sudan relative to the outside states involved. Enforcing the terms of an agreement between Georgia, South Ossetia, and Russia, for example, would be more difficult.

It is also possible for actors like c to affect the payoffs of the patron through interactions in other games outside of our model. Such actions would manifest themselves within the model as reductions in the patron’s willingness to pay to sustain the status quo. If the patron is unwilling to pay to sustain the status quo, the status quo payoffs of the secessionists will decline over time, eventually leading to either war or negotiated settlement. Under these conditions, the within-game costs to c of inducing negotiated reunification also fall.

In this section we have argued that outside states are capable of imposing their preferred outcome, including peaceful reunification. The key, however, is motivation: actors like player c are capable of inducing peaceful reunification when they are willing to invest the resources necessary. However, strong preferences of secessionists against reunification and the opposing intervention of the patron make the costs of such interventions prohibitively high in most cases. Unrecognized statehood is a stable equilibrium because, while there are many actors in the international community that share the preferences we ascribe to c, they are usually unwilling to invest sufficient resources to outspend the patron and induce their preferred outcome.

7 Conclusions

In this paper we establish unrecognized states as an outcome of interest for social scientists and provide a unified framework for analyzing that outcome and its alternatives. Current events, particularly, Russia’s military and economic support of secessionist rebels in East-
ern Ukraine, suggest that the phenomenon of unrecognized statehood will not fade from relevance soon. While the Ukrainian situation remains fluid, the status quo equilibrium we model is a plausible future. The equilibrium could emerge as follows: with Russian support, the secessionists solidify de facto control of parts of Eastern Ukraine, but risk of direct confrontation with the West is sufficiently high to prevent Russian annexation of Eastern Ukraine. Further Russian economic aid keeps the status quo payoffs of the secessionists sufficiently high that they decline negotiated reunification. If necessary, contributions to the home state by U.S. and the EU (player c) strengthen the home state enough to prevent the secessionists from overthrowing the Ukrainian government and forcing recognition. In twenty years, Eastern Ukraine may look a good deal like South Ossetia does today.

While the importance of outside actors in civil conflict has been widely acknowledged in the empirical literature, it is rarely modeled formally. We introduce a unique four-player model that captures the core strategic interactions of the secessionist elite and the home state central government, as well as the interventions of outside actors with interests in the outcome. This allows us both to examine the means through which patron states sustain unrecognized statehood as a stable equilibrium, and to rigorously analyze the strategies available to other outside actors to pursue reunification. It is not always in the interests of outside states to bear the costs of inducing their preferred outcome, but we identify the mechanisms through which this is possible and the thresholds that must be overcome.

In the model we present, we show that unrecognized statehood can emerge as an equilibrium outcome even when it is a terrible outcome for all players involved. The patron, even when it prefers outright independence, is willing to bear costs in every period to uphold an outcome that is far short of its ideal, and which imposes high costs on others as well. The international community, though wealthier than the patron, does does not outspend the patron to force reunification because the patron’s desire to avoid reunification is stronger than the international community’s desire to achieve it.

By providing economic and other aid to the unrecognized state, the patron keeps the

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27Annexation of Crimea was achieved at a reasonable cost to Russia. The costs of annexation Eastern Ukraine would likely be substantially higher.
secessionist elite’s payoffs from the status quo high enough to prevent a negotiated reunification. The stability of this equilibrium is abetted by the indivisible nature of independence and the difficulty of enforcing autonomy as a condition of reunification. In cases where there is no patron or where the patron eventually becomes unwilling to continue its support, the result has almost always been violent reconquest by the home state.

Our model also suggests, however, that the historical pattern of costly stalemate followed by violent resolution is not the only possible path. We show that the stabilizing effect of the patron can be overcome by a sufficiently motivated international community. While the most frequently employed means through which outside actors attempt to induce settlement—sanctions—also increases the risk of war, we show that it is possible for outside actors to induce their preferred outcome without running this risk. In particular, we suggest that they can provide positive inducements for settlement and serve as a third-party guarantor of negotiated settlements in which unrecognized states rejoin the home state as autonomous regions. It is often not the lack of available means that prevents outside actors from inducing their preferred outcome, but rather the lack of will.
8 References


A Appendix

Proof of Lemma 1

Recall that the upper case notation represents payoffs gross of investments by the outside players. Without loss of generality, consider the incentives to deviate for player $s$ in period $n$ given that the other three players play their equilibrium actions. Given the stationary equilibrium actions, playing Status Quo will lead to $Q_{sn} \forall n$, so the continuation value is $\frac{Q_{sn}}{1-\delta}$. Player $s$’s continuation value from the one-shot deviation to Cede, which leads to an absorbing state with payoff $L_{sn}$ in each period, is $\frac{L_{sn}}{1-\delta}$. The one-shot deviation to fight results in the war lottery, with a cost of $-\zeta_s$, $W_s$ forever with probability $p_1$, $L_s$ forever with probability $1-p_1-p_2$. Thus the continuation value is $\zeta_s + \frac{W_s(p_1)+L_s(p_2)+Q_{sn}(1-p_1-p_2)}{1-\delta}$.

In order for player $s$ to play Status Quo, it must be that the continuation value from Status Quo is higher than both that from playing Cede (Condition 1) and Fight (Condition 2). The argument for player $g$ is symmetric.

Proof of Lemma 2

Again, in the status quo, we have $U^{SQ}_{pn} = -R^{SQ}_p$ and $U^{SQ}_{cn} = -R^{SQ}_c$. If the outcome is reunification, payoffs in this absorbing state in the period in which the investment is made are $U^{RU}_{pn} = \alpha - R^{RU}_p$ and $U^{RU}_{cn} = \beta - R^{RU}_c$ where $SQ$ and $RU$ distinguish investments under the status quo and reunification scenarios respectively.

Thus the difference in continuation values from switching from the status quo to reunification for player $p$ is $\frac{\alpha + R^{SQ}_p}{1-\delta} - R^{RU}_p$. For player $c$ it is $\frac{\beta + R^{SQ}_c}{1-\delta} - R^{RU}_c$. Neither player will be willing to invest in its least preferred state. That is, $R^{RU}_p = R^{REC}_c = 0$. So $c$ is willing to invest up to $\frac{\beta + R^{SQ}_c}{1-\delta}$ toward reunification—or preventing the status quo—and $p$ is willing to invest $-\frac{\alpha + R^{SQ}_p}{1-\delta}$ each period toward maintaining it.

Player $c$ would be able to deter player $p$ from investing to maintain the status quo—e.g. counter an addition to $q_{sn}$ with an investment to $l_{sn}$—as long as $R^{RU}_c = \frac{\beta + R^{SQ}_c}{1-\delta} \geq Q_{sn} - l_{sn}$,
where $Q_{sn}$ is gross of any investment by $p$.\textsuperscript{28} That is, the required investment must be no more than the gain player $c$ receives from investing.

Given our assumption that the status quo outcome is no worse than the reunification outcome net of investments for player $s$, when $\frac{-a - R^S_{p}}{1 - \delta_p} > \frac{\beta + R^S_{c}}{1 - \delta_c}$, $p$ is willing to invest enough to create a large enough difference in $Q_{sn} - l_{sn}$ so that player $c$ will not find contesting the status quo to be in its interest. Whenever the status quo will be the outcome in this way, $c$ maximizes its utility by choice of $R^S_{c} = 0$. Given that $R^S_{p}$ is non-negative, a sufficient condition to prevent $c$ from inducing the reunification outcome is $\frac{-a}{1 - \delta_p} > \frac{\beta}{1 - \delta_c}$.

Proof of Lemma 3

In the status quo, we have $U^S_{pn} = -R^S_{p}$ and $U^S_{cn} = -R^S_{c}$. If the outcome is recognition of the secessionists, per-period payoffs in this absorbing state become $U^R_{pn} = \lambda - R^R_{p}$ and $U^R_{cn} = v - R^R_{c}$ where $SQ$ and $REC$ distinguish investments under the status quo and recognition scenarios respectively.

Thus the difference in continuation values from switching from the status quo to recognition for player $p$ is $\frac{\lambda + R^S_{p}}{1 - \delta_p} - R^R_{p}$. For player $c$ it is $\frac{v + R^S_{c}}{1 - \delta_c} - R^R_{c}$. As noted above, $R^R_{c} = 0$. So $c$ is willing to invest up to $-v$ per period toward maintaining the status quo, and $p$ is willing to invest up to $\frac{\lambda + R^S_{p}}{1 - \delta_p}$ toward recognition. We have shown that the largest possible investments by $p$ in the status quo are $\frac{\beta}{1 - \delta_p}$ in $n = 1$ and $\mu$ in each period thereafter, so the largest this difference can be for $p$ is $\frac{\lambda + \mu}{1 - \delta_p} + \frac{\beta}{1 - \delta_c}$.

Player $c$ would be willing to counter whatever investment player $p$ makes to try to induce recognition—e.g. counter an addition to $l_{gn}$ with an investment to $q_{gn}$—as long as $-v \geq L_{gn} - q_{gn}$, where $L_{gn}$ is gross of any investment by $p$.\textsuperscript{29} That is, the required investment must be no more than the loss player $c$ receives from investing.

Given our assumption that the status quo outcome is no worse than the recognition outcome net of investments for player $g$, $p'$s willingness to invest up to $\frac{\lambda + \mu}{1 - \delta_p} + \frac{\beta}{1 - \delta_c}$ can

\textsuperscript{28}Here we have assumed that the payoff relationship at $n$ is such that ceding is better than fighting. If this relationship is reversed, similar analysis and results hold.

\textsuperscript{29}As in the proof of Lemma 2, we have assumed that the payoff relationship at $n$ is such that ceding is better than fighting. If this relationship is reversed, similar analysis and results hold.
create a difference of at most that amount in \(L_{gn} - q_{gn}\).

Thus \(-\nu_1 > \frac{\lambda + \mu}{1 - \delta_p} + \frac{\beta}{1 - \delta_c}\) guarantees that player \(c\) will always be willing to counter an investment by player \(p\) toward achieving recognition, making \(p\) unwilling to make that investment in the initial stage and making the response by player \(c\) unnecessary. A slightly weaker version of this inequality is stated as condition 4 so that this deterrence dynamic is guaranteed to operate through the war lottery as well, as will be seen in Lemma 4.

**Proof of Lemma 4**

The difference in continuation values from switching from the status quo to taking the war lottery for player \(p\) is \(\frac{\lambda p_1 + \alpha p_2}{1 - \delta_p} + R_{p}^{SQ} - R_{p}^{WAR}\). For player \(c\) it is \(\frac{\nu p_1 + \beta p_2}{1 - \delta_c} + R_{c}^{SQ} - R_{c}^{WAR}\). As noted above, \(R_{c}^{SQ} = 0\). So \(c\) is willing to invest up to \(\frac{\nu p_1 + \beta p_2}{1 - \delta_c}\) toward preventing fighting if this quantity is negative (leave the case where it is non-negative until later).

\(p\) is willing to invest up to \(\frac{\lambda p_1 + \alpha p_2}{1 - \delta_p} + R_{p}^{SQ}\) toward instigating fighting when this quantity is positive, and will not invest when the quantity is non-positive. Thus we must only examine the case where this quantity is positive.

We will again set \(R_{p}^{SQ}\) at its largest value of \(\frac{\mu}{1 - \delta_p} + \frac{\beta}{1 - \delta_c}\) as this is most restrictive. In this only case of interest, we have \(\frac{\alpha p_2}{1 - \delta_p} + \frac{\lambda p_1}{1 - \delta_p} + \frac{\mu}{1 - \delta_p} + \frac{\beta}{1 - \delta_c} > 0\). Note that the first term is negative while the rest are positive.

Multiplying Condition 3 by \(-p_{2s}\), we have \(\frac{-\beta p_{2s}}{1 - \delta_c} \geq \frac{\alpha p_{2s}}{1 - \delta_p}\). Using this with Condition 4, we have

\[-\left(\frac{\nu p_1 + \beta p_{2s}}{1 - \delta_c}\right) = -\frac{\nu p_1}{1 - \delta_c} - \frac{\beta p_{2s}}{1 - \delta_c} \geq \frac{\alpha p_{2s}}{1 - \delta_p} + \frac{\lambda p_1}{1 - \delta_p} + \frac{\mu}{1 - \delta_p} + \frac{\beta}{1 - \delta_c} > 0 \forall p_{1s}, p_{2s}\]

Hence when player \(p\)'s gain from instigating war is positive, player \(c\)'s loss is negative and larger in absolute magnitude. Player \(c\) will thus counter any such investment by player \(p\), deterring the investment in the first place.

**Proof of Proposition 2**

Suppose that sanctions are applied by player \(c\) in period \(n + 1\) after a Status Quo equilib-
rium such as the one supported by the construction in Proposition 1 has been established in period $n$. As the only alteration is a reduction in $Q_{sn}$ by the amount of the sanctions, it is immediate that if player $p$ is willing and able to supplement player $s$’s status quo payoffs to counteract sanctions, then player $s$’s incentives to play Status Quo are not disturbed. As in Proposition 1, it is not necessary that the patron make these payments immediately if player $s$’s utility from playing Status Quo is high enough relative to its other options, but the degradation of the status quo payoffs will eventually make these payments necessary in order to sustain a Status Quo equilibrium.

Therefore if sanctions are to disrupt the Status Quo equilibrium and potentially lead to ceding by the secessionists, it must be that the patron is either not able or not willing to make the investment required to maintain the status quo under player $c$’s sanctions (Condition 1).

Assume then that Condition 1 holds so that the patron makes no investments in the Status Quo payoffs of player $s$. We also need the patron to withhold investments toward encouraging the secessionists to fight. Lemma 4 of Proposition 1 is not sufficient to guarantee this behavior since no investments are being made in the Status Quo. In addition, the reference outcome changes: players $p$ and $c$ must now compare their payoffs in the war scenario to the reunification outcome. To be precise, the least stringent condition is $m$ periods of Status Quo followed by the Reunification outcome, where $m$ is the maximal number of periods that it takes for the sanctions to degrade the status quo payoffs below the level of the payoffs from ceding for player $s$.

Player $p$’s continuation value when the status quo is played for $m - 1$ periods before ceding is $0 + \frac{\delta^m}{1 - \delta_p} \alpha$, whereas the continuation value from war is $\frac{\lambda p_{1s} + \beta p_{2s}}{1 - \delta_p} + \frac{\delta_p}{1 - \delta_p} \alpha (1 - p_{1s} - p_{2s})$. For player $c$, it is $0 + \frac{\delta^m}{1 - \delta_p} \beta$ versus $\frac{\nu p_{1s} + \beta p_{2s}}{1 - \delta_c} + \frac{\delta_c}{1 - \delta_c} \beta (1 - p_{1s} - p_{2s})$. Thus the condition for $p$’s willingness to instigate fighting to outweigh $c$’s willingness to deter fighting is

$$\frac{\lambda p_{1s} + \beta p_{2s}}{1 - \delta_p} - \frac{\delta_p}{1 - \delta_p} (p_{1s} + p_{2s}) + \alpha \sum_{i=1}^{m-1} \delta^i > \frac{\nu p_{1s} + \beta p_{2s}}{1 - \delta_c} - \frac{\delta_c}{1 - \delta_c} (p_{1s} + p_{2s}) + \beta \sum_{i=1}^{m-1} \delta^i$$

If this condition holds, then there will be no investments following sanctions. But it
is still not guaranteed that the secessionists will choose to cede. Status Quo is no longer a long-run equilibrium strategy, but even without outside investments, it is possible that Fight could be a more attractive action than Cede. Degrading the status quo payoffs is not sufficient to make the continuation value from Cede the highest available.

To see why, note that the sanctions only have a partial effect in reducing the Fight continuation value through the war lottery, while their entire impact is felt on the Status Quo continuation value. Thus the gap between the Status Quo and Fight continuation values narrows at the same time as the corresponding gap between the Status Quo and Cede continuation values. Although the former gap narrows more slowly, it is likely to be smaller at the outset so sanctions do not necessarily make Cede the most preferred action for player s.

Therefore, in order to avoid conflict, sanctions must cause player s’s continuation value from playing Status Quo to fall below its continuation value from playing Cede before it falls below the continuation value from playing Fight.