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Title: Defending the status quo across venues and coalitions: Evidence from California

interest groups

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Abstract: This study investigates the conditions under which pro-status quo groups increase their advocacy success during an entire policy-making process. It scrutinizes whether pro-status quo defenders who are involved in multiple institutional venues and who join many coalitions of interest groups are able to achieve their policy preferences. A case study focusing on the regulation of stem cell research in California traces the policy making-process and the related advocacy activities of interest groups in the legislative, administrative, judicial, and direct-democratic venues. The empirical results, which are based on a formal Social Network Analysis, reveal that very few groups are multi-venue players and members

of several coalitions. In addition, occupying a central network position is insufficient for the pro-status quo groups to improve their advocacy success.

Key Words: Interest Groups, Advocacy, Status quo, Venue, Coalitions, Social Network Analysis

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Article: To directly influence a public policy, interest groups must gain access to institutional venues making binding policy decisions, such as constitutional amendments, laws, regulatory decisions, or court rulings. A group can lobby the legislature (law-making) or the executive branch (rule-making), bring a case to court (litigation) or launch a popular initiative if the political system provides for direct democracy, as in several US states. Some groups target only one venue as advocacy niche, while others combine several political venues as "policy battleground" (Holyoke 2003). Furthermore, a group can opt to work alone or join an ad hoc coalition (Gray, Lowery 1998; Mahoney 2007). In short, many advocacy tactics are available and groups, which always face institutional access rules and limited resources, must make strategic choices.

This article examines interest groups' involvement in multiple venues and coalitions to influence the policy process and outcomes, and whether interest groups are able to realize their policy preferences. Aside from considering specific advocacy strategies, the power of the policy status quo is a strong determinant in predicting advocacy success (Baumgartner et al. 2009). Acknowledging this finding, this study addresses the following questions: Under which conditions do pro-status quo groups increase their chances of realizing their preferred outcomes? To identify this conditional relationship, the study focuses on two factors. First, does advocacy in multiple venues contribute to the success of status-quo defenders? Second, how do coalition alliances influence these groups' ability to obtain their desired outcomes? In addition, this study also takes into account the group type (e.g. business versus public interest groups) as a potential factor in explaining advocacy success. Finally, it examines whether the advocacy experience of a group also influences its success in attaining its preference. The empirical investigation focuses on lobbying activities during the California policy process regulating stem cell research.

This research design is innovative for four reasons. First, most studies ask groups to self-assess their typical patterns of strategy in policy de-contextualized surveys, even if there is an obvious need to link groups' strategies to a specific policy-making process (Baumgartner and Leech 1998: 174; Baumgartner 2007: 487; Beyers 2008: 1206-1207; Halpin and Binderkrantz 2011: 207; Hojnacki et al. 2012). Unlike these survey studies, the present study captures the observed lobbying strategies of groups in all the venues activated during an entire policy-making process.

Second, previous studies that have already adopted such a dynamic and policy-contextualized approach concentrated on a limited number of venues (e.g. Holyoke 2003, Bouwen and McCown 2007, Boehmke et al. 2013, Binderkrantz et al. 2014). No empirical study has yet considered simultaneously all four venues available to groups, namely Legislature, Administration, Courts and Direct Democracy. Some studies were dedicated to explaining how groups choose between two or three advocacy strategies in the United States (Grossmann 2012, Hilson 2002, Miller 2009) and in Europe (Binderkrantz 2005, Halpin et al. 2012, Perderson et al. 2014, Kriesi et al. 2007). The added value of this study is to take into account the direct democracy venue as one strategic option for groups. So far, this venue has been either ignored or, contrarily, was the only venue researched. (Boehmke 2005a, Gerber 1999).

It is also important to investigate groups' activities in all possible venues, as most decisions taken in different venues are not independent from one another. Some venue changes are institutionally predetermined, such as the delegation of powers from the legislature to the administration or a bill ratification or veto by the Governor. When a venue change is the result of a pro-active strategy by policy entrepreneurs, the connection between decisions is also obvious: for instance, groups may contest the constitutionality of popular initiative (see Proposition 71 in the empirical case study presented below). In sum, interest

groups use multiple venues to influence policy-making and a new venue might represent an opportunity for redress for a group that did not achieve its preference in the previous venue. Groups might mobilize in some venues but not in others, and may achieve advocacy success in one venue before experiencing a setback elsewhere. The availability of multiple venues as a mechanism to counter undue influence is a foundational characteristic of the American political system, and to understand how this feature applies to status-quo defenders, it is critical to including all institutional venues.

Third, this article applies classical indicators of Social Network Analysis (SNA) to capture the relational profile and network positions of groups trying to influence binding policy decisions in several institutional venues and through coalitions. Previous SNA studies looking at the position that groups occupy within political networks active in one venue demonstrate that well-connected groups tend to display higher access to policy-makers (Beyers and Braun 2013) or even higher influence on policy outputs (Box-Steffensmeier 2014; Heaney and Lorenz 2013). The added value of the present study is to apply the SNA approach across the entirety of the policy process.

In addition, existing SNA literature does not consider groups' advocacy goals. The fourth innovation is thus to combine the groups' network position with their strategy as defenders vs. challengers of the policy status quo. Baumgartner et al. (2009: 241) argue that one of the most consistent findings throughout lobbying studies is that pro-status quo groups usually realize their preferences and get what they want, namely no substantial policy change. This study considers the advocates' position regarding the policy status quo as the main factor shaping advocacy strategy and success, in contrast to other studies exclusively focusing on group's interest, resources or policy positions without regard to the policy status quo.

The next section reviews the relevant literature on advocacy success as it relates to the status quo, and concludes by formulating five theoretical expectations. The description of the main variables, measurements and data sources for the empirical analysis follows. Then, we present the empirical results in two steps: descriptive statistics and regression analyses. After summarizing the main findings, the concluding section puts them into perspective.

1. Theoretical framework

The striking resilience of policy status quo has been highlighted by many studies on interest groups lobbying. We capitalize on this robust finding, but specify the conditions under which status quo defenders are able to avoid major "policy punctuations". In particular, we expect that the number of venues in which pro-status quo groups are active, the number of coalitions they build or join, their resource endowment and their advocacy experience contribute to the success of their policy influence strategies, and this throughout the many decisions that shape the policy process.

1.1. The power of status quo

In their seminal study of lobbying in the US congress, Baumgartner et al. (2009: 247-250) claim that defenders of the status quo enjoy a tremendous advantage in policy-making processes. Advocates of substantial policy change frequently face the major problem of not attracting sufficient attention from political decisions-makers. To get on the political agenda, status quo challengers must expand the level of issue saliency and the scope of conflict. By contrast, the pro-status quo groups may be less active and strategically raise doubts about the feasibility and the costs of the proposed policy change. Further reasons for status quo bias

include the difficulty of building a large (bipartisan) majority to support a substantial policy change and convincing the gatekeepers of existing programs that revising "their" programs is necessary. Accordingly, our first hypothesis is that groups defending the status quo have a higher probability of advocacy success (hypothesis 1). Our goal here is to specify this general expectation by looking at the conditions under which a group defending the status quo may increase its policy success. Therefore, we simultaneously consider the network positions of pro status quo groups, and also the resources and advocacy experience of all groups defending or challenging the status quo.

1.2. Network position: multi-venue and team players

Recent studies relying on a formal Social Network Analysis concluded that the relational profile of interest groups and their embeddedness in networks matter considerably for their access to venues and, eventually, for policy influence. Groups which collaborate with other well-connected groups, and have developed a strategic "coalition portfolio" (Heaney and Lorenz 2013:253) increase their policy influence during policy formulation, implementation or litigation processes (Box–Steffensmeier et al. 2013). The network position of a group is as important as its internal resources (e.g. members and staff) to explain venue access (Beyers and Braun 2013). This empirical finding holds in very different political systems and policy domains.

These SNA findings let us assume that actors who benefit from their relational profile or their network position are able to increase their advantage by adopting a pro-status quo perspective (Baumgartner et al. 2009). Consequently, our second and third hypotheses are that the likelihood of realizing a preferred policy outcome (i.e. advocacy success) is higher for pro-status quo groups mobilizing in several institutional venues (i.e. multi-venue players)

(hypothesis 2), and for pro-status quo groups joining several coalitions (i.e. team players) (hypothesis 3). In addition to the supportive empirical evidence provided by previous SNA studies (Varone et al. 2016), several arguments underlie these theoretical hypotheses.

"Multi-venue players" are groups that mobilize to influence several binding decisions in different venues. It has been confirmed that "repeat players" have a larger policy influence than "one-shotters" (Galanter 1974). For example if a group wins a case within the judicial venue (Galanter 1974, Hansford 2004), it rapidly brings a subsequent suit in court to "lock-in" the earlier (favorable) court ruling by having it applied as precedent in later (positive) court decisions. Past success thus explains the ex post (successful) use of a litigation strategy and, eventually, the consolidation of the policy status quo. We assume here that a similar lock-in strategy is probably also at work across venues. In order to solidify the substantive content of the policy and to avoid a substantial policy revision, pro-status quo groups stay mobilized and act as multi-venue players. Groups want to translate a legislative victory into favorable rule-making outputs in the executive venue. Or the winners of a direct democracy ballot (i.e. legislative or constitutional initiative) want to prevent their opponents from "stealing" their initiative through a judicial review process (Miller 2009) or during the rule-making and implementation process (Gerber et al. 2001). Such lock-in strategy is particularly important for groups defending the status quo (Baumgartner et al. 2009:232ff).

Finally, the membership strategy of groups might also be a strong impetus for advocating through the entire policy-making process. To secure the survival, maintenance or reinforcement of its own organization (e.g. membership, financial resources, reputation, etc.), a group has to demonstrate to its (potential) members that it is a resilient warrior (Solberg and Waltenburg 2006; Lowery 2007). Faced with competition for members, a group has an incentive to mobilize in all venues in which opposing or competing groups are also mobilized (Holyoke 2003). As suggested by Lowery and Gray (2004:170), there are strong

interdependencies between the choice of venues and advocacy tactics by a particular group, on one hand, and its chance of organizational survival within the overall groups' population, on the other hand.

The label "team players" characterizes groups with coalition membership(s). Joining a formal coalition has at least two advantages for a pro-status quo group. First, it allows for pooling human and financial resources, thereby achieving higher professionalization and efficiency in advocacy activities. Second, a large coalition sends a clear signal to decision-makers that the policy status quo promoted by the coalition benefits from large political support. According to the classical "resource exchange theory" (Hansen 1991, Wright 1996), groups have to provide new, useful and high quality information to elected politicians, judges and bureaucrats in exchange for formal access to an institutional venue and policy influence (expertise as "access good"). The information delivered by a group is relevant insofar as it facilitates the reelection calculus of politicians, for example if the group shows that a large majority of voters supports the status quo. The information is also valuable if it reduces the policy-making uncertainty that judges and bureaucrats are facing, for instance if the group shows that the status quo is still accepted by many policy target populations. Therefore, a group involved in coalitions is probably the most able to deliver relevant information. It should thus have easy access to policy-makers and, consequently, high advocacy efficiency and success.

In summary, to realize its own policy preferences, it seems crucial for a group to be situated between other well-connected groups and play the role of "policy broker" (Ingold and Varone 2013). The positive relationship between the network centrality of a group and its advocacy success has been demonstrated for different individual venues, but without considering simultaneously all venues effectively active during the life-course of a policy issue. To engage in the next research step, we argue here that multi-venue and team players,

who defend the status quo, occupy a key position in the overall policy-making network, as they have several links with other groups and are able to bridge across groups, coalitions and venues. This key position should eventually also translate into high advocacy success.

1.3. Resources and experience count

To account for the postulated dominance of business groups in policy advocacy (i.e. the famous "upper-class accent" in the pluralist heavenly chorus according to Schattschneider 1960:34-35), we also conceptually and later empirically distinguish between group types. The conventional wisdom is that one should expect a higher success rate for business and occupational groups than for public interest, religious or others groups (identity, institutional, etc.), because business and occupational groups presumably have more financial and personnel resources and specific, material, and short-term oriented interests to promote. In addition, corporate institutions have more managerial latitude than membership groups to make strategic decisions about resources allocation and advocacy activities (Salisbury 1984:68). Nevertheless, Baumgartner et al. (2009: 203, 212-213 and 225-236)) found no direct, positive, and strong link between a group's resources and its policy success. The main reason for this low correlation has to do with competition between individual groups and/or policy sides with roughly similar resources. In a follow-up study, McKay (2012:913) similarly concluded that "greater financial variables do not appear to help lobbyists' chances of achieving their objectives or attaining their preferred policy outcome".

However, these studies tested the "resources count" argument only in one single venue. As we consider here an entire decision-making process, it is plausible that financial and personnel resources become more important for groups that are active in many venues. Multi-venue players probably need more financial resources to hire lobbyists, to fund political

action committees and to contribute to campaigning coalitions. Political staff with a legal and technical expertise is also required for writing an amicus curiae brief or for delivering credible comments to rules proposed by a regulatory agency. Despite the rather ambivalent findings of previous research, we expect here that groups with more resources (i.e. business and occupational groups) have a higher advocacy success (hypothesis 4).

In a similar vein, our last hypothesis stipulates that the likelihood of realizing one's preferred policy outcome is higher for groups with more advocacy experience (hypothesis 5). Over the years and after being involved in various policy processes, an organization learns how to better advocate towards its policy goals, in which venue to mobilize and which winning coalitions to join to be associated with this success (Gray and Lowery, 1998: 14). Groups with advocacy experience know that affiliation in some venues makes it easier to enter in other venues as recognized "interested parties". In California, administrative decisions are subject to judicial review, and a group may elect to lobby an agency in anticipation of future legal dispute. Similarly, in the same (judicial) venue, a group might file a suit to ensure standing as the cases moves to the appellate level. In sum, groups with more advocacy experience are more frequently repeat and multi-venue players and, according to our first hypothesis, have a higher advocacy success.

***Put Table 1 (Research hypotheses) about here ***

2. Research design, variables and sources

To test whether lobbying in multiple venues or in several coalitions increases advocacy success for pro status-quo organizations, this study compares groups' activities during California's policymaking on Stem Cell research. A documentary analysis reconstructs the life-course of this policy issue and identifies all binding decisions that were made in the

different venues (e.g. laws adopted by the Legislature, popular initiatives accepted by the voters, court rulings and regulatory decisions by an administrative agency). Furthermore, it makes a systematic inventory of the 152 unique groups that have tried to influence these binding decisions (e.g. through reported lobbying of the Legislature, contribution to a ballot campaign committee, writing an amicus curiae brief to support a party or formulating comments to proposed rules). Finally, it associates the appropriate groups by identifying coalition membership for each decision in each venue. The following sections present the sources and result of such documentary analysis.

2.1. Regulating research on stem cells: venues and decisions

Research on human embryonic stem cells (hESC) intends to develop therapies to treat degenerative pathologies such as cancer, Parkinson's and Alzheimer's diseases. The problem is that the destruction of embryos to derive hESC is a very sensitive political issue. The political debate over the regulation of hESC research has been very controversial at both the federal and state levels. We focus on California policy concerning hESC research.

In 2002, the California Legislature passed Senate Bill (SB) 253 allowing research on hESC. One year later, SB 771 established an anonymous registry of embryos for research purposes. California thus became a haven for hESC research, but public funding was still unavailable. Robert Klein, board member of the Juvenile Diabetes Research Foundation and father of a diabetic son, took control of Proposition 71, which (1) makes conducting hESC research a state constitutional right, (2) allocates \$3 billion over a period of 10 years to hESC research, and (3) creates a public agency, the California Institute for Regenerative Medicine (CIRM) and an Independent Citizen's Oversight Committee (ICOC) to oversee it. In 2004, California voters approved Proposition 71. In 2005, plaintiffs People's Advocate and National

Tax Limitation Foundation filed an action in Superior Court against the ICOC, arguing that the disbursement of state funds by a private entity not under the exclusive control of the state violates the California Constitution. Shortly after, plaintiff California Family Bioethics Council, LLC (the Council) filed another complaint against CIRM, contending that Proposition 71 concealed the true scope, meaning, and costs of the initiative from the voters. These two actions were consolidated and in 2006 the court ruled that plaintiffs failed to show that Proposition 71 was unconstitutional. In 2007, the California Court of Appeals confirmed once again that Proposition 71 did not violate the Constitution and did not mislead the voters. In the meantime in 2006, the Legislature passed SB 1260, which indefinitely extended the Jan 1, 2007 repeal date of SB 253 and 771. Finally, the CIRM, endowed by Proposition 71, has launched several rule-making procedures about medical and ethical standards, and intellectual property and revenue-sharing requirements for non-profits and for-profit grantees.

Put Table 2(Venues and binding decisions concerning hESC research) here

2.2. Variables and measurements

Advocacy success constitutes the *dependent* variable of this study and is measured through the realization of a group's policy preference (McKay 2012). One key advantage of focusing on the "preferred outcome" variable is that it is based on behavioral data that can be observed in different venues. For instance, for each decision taken in the legislative venue, this variable can be conceived as a dichotomous measure of whether or not a bill actively supported by a group succeeded in becoming a law. If a group lobbied on more than one decision, we sum the measures of preference attainment for each decision and divide the result by the number of decisions on which the group advocated, to obtain an interval variable. Within the direct democracy venue, one can assess whether the ballot proposition supported by a group is

eventually accepted by the voters. In the judicial venue, the court's decision also constitutes a binary measure of advocacy success, depending on whether the ruling is for or against the group's position. Similar to the legislative venue, the variable at the judicial venue level is weighted by the number of mobilizations and measured as an interval. In the administrative venue, we assess whether a rule-making agency modifies the rule according to the changes proposed by a group, and we obtain an interval measure of advocacy success depending on how many modifications were requested, and how many were actually modified in the final rules. We then aggregate the overall measure of advocacy success as an interval variable, summing the venue-specific measures and weighting it by the number of venues where the group mobilized. Such a qualitative-objective variable partially relates to important studies focusing on lobbyists' policy preferences and success (Bernhagen et al. 2014). For instance, Baumgartner et al. (2009) measures whether a pro-status quo side got its full preferred outcome, only part of it, or nothing at all.

The *independent* variables focus on the pro-status quo vs. pro-change positions of the groups, and on their policy network positions. An organization is coded as “pro-status quo” if it favors the policy already in place. The SNA measures, which capture the network positions of groups, are based on two different 2-mode networks, the first “mode” being actors, the second “mode” being decisions and coalitions respectively. Two rectangular data matrices of actors (rows) by events (columns) are created, where each cell indicates if an actor participated (1) or not (0) in the respective decision or coalition. Such a matrix was created for each venue (consisting of all decisions, and respective coalitions in each venue), and for the overall policy processⁱ.

Figure 1 offers a visualization of the two-mode network crossing groups and policy decisions. The squares correspond to the 11 binding decisions identified during the entire policy process (see Table 1) and the circles correspond to the 152 interest groups active in the

stem cell policy. The circles with node names represent interest groups participating in more than one venue; they are thus multi-venue players. City of Hope Medical Center (Hope Med) and the University of Southern California (USC) are the two only interest groups in this process participating in three different venues. Thus, their node is larger than other nodes. For example, Hope Med initially mobilized to change the status quo and allow stem cell research in California with the passing of SB 253 in 2002. It then continued to defend this new status-quo by contributing to Prop 71 through the “Coalition for Stem Cells Research and Cures”, lobbying to extend previous legislation facilitating research (SB 1260), and co-signing an amicus brief of the California Institute of Technology for the California Appellate Court, defending Prop 71. Its advocacy efforts led to the realization of preference attainment in all venues and decisions. USC lobbied to consolidate the status-quo when it participated in CIRM’s first rule-making proceeding on medical and ethical standards, co-signing comments with other research entities to modify the initial definition of a stem cell line, as trigger for administrative review. It then lobbied to extend previous legislation allowing research, and joined Hope Med and other amici in co-signing the amicus brief in support of Pro 71 for the Appellate Court. For USC also, all advocacy efforts led to the realization of its preferences, with the minor exception of one comment (also in coalition) to CIRM that requested a stronger regulatory stand to avoid duplicate reviews amongst state and other agencies. The comment was denied.

*** Put Figure 1 (Two-mode network with groups and decisions) about here ***

Subsequently, two main complementary dimensions capture the network centrality of a group across institutional venues. The "nBetweenness decisions" variable is a SNA indicator signaling how often a group lies on the path between two binding decisions that were made in different venues. We attach a positive weight to the "nBetweenness decisions" variable if the group lobbies to maintain the policy status quo, and a negative weight if the group wishes to

introduce a substantial policy change. The "nDegree coalitions" variable assesses to what extent a group is a member of one or more coalitions. The degree centrality of a node is defined as the number of edges incident upon that node (Freeman 1979: 219). Applied to actors in the coalition network, this means that the degree of an actor is the number of coalitions he or she attended or participated in. For this step we use normalized degree centrality, dividing actors' degree by the total number of nodes in the network minus one. In the case of a bipartite graph, the maximum degree of a node is given by the number of nodes in the opposing set (Wasserman and Faust 1994), thus we normalized degree (also for the betweenness centrality) by taking the total number of decisions or coalitions into account (Scott 2000). Table 3 reports how the different variables were defined and operationalized at the levels of one binding decision, and over the whole policy process.ⁱⁱ

Put Table 3 (Definitions and measurements of variables) here

Our process-tracing methodology presents a unique challenge when selecting and measuring the variables commonly found in the literature to grasp groups' characteristics, including organizational budget and political staff, or visibility in the media. Consider for example the biotechnology organizations that benefited from the grants distributed by the CIRM after the passing of Proposition 71. Gathering data now that these policies have found a new equilibrium is not only difficult, but may cause issues of reverse causality, as group's budget, staff or media visibility may have been altered because of one or more decisions in the policy-process. We therefore include the age of the organization as a proxy for advocacy experience (Appollonio and La Raja 2004). We use the group type as proxy for resource endowment.

2.3. Sources

Multiple sources were used to empirically measure these variables. For the legislative venue, we extracted data about groups' activities from the legislative history (www.leginfo.ca.gov) and the California Secretary of State's records of lobbying reports. To assess which groups mobilized in the administrative venue, we examined the files of the California Institute for Regenerative Medicine that were subject to Office of Administrative Law approval. For the direct democracy venue, the National Institute on Money in Politics (www.followthemoney.org) provides an interface to the Secretary of State's records on financial contributions. In the judicial venue, we identified groups that participated in a suit through the California courts' websites, which provide access to dockets and documents and, as needed, through Westlaw Next and LexisNexis. Regarding the control variables, we screened the websites of all groups. For "organizational age", we identified the year of creation of each group, or used the California Secretary of State's records if this information was not otherwise available. For "business and occupational groups", two coauthors classified all groups in predefined categories (business, occupational associations, unions, public interest groups, etc.) using a double-blind process.

3. Empirical Results

The empirical findings are presented in two steps. First, descriptive statistics depict the level of mobilization across venues and of coalition membership of groups participating in the policy process. Second, regression analyses show that occupying a central network position is not sufficient for the pro-status groups to improve their advocacy success.

3.1. Where and with whom do groups mobilize?

As a starting point, table 4 lists the number of unique groups that mobilized in each venue to influence the related binding decisions. First, we observe that groups were politically active in the four different venues. This demonstrates the appropriateness of adopting a policy-contextualized approach, encompassing all venues (re)visited over the life-course of a policy issue. Second, business and occupational groups (e.g. Biotechnology Industry Organization of California, Invitrogen Corporation, BIOCOM, Stem Cells Inc.) and public interest groups (e.g. Alzheimer's Association, Juvenile Diabetes Research Foundation, Planned Parenthood Affiliates of California) are clearly dominant in the policy process. Third, the absolute levels of groups' mobilization in the different venues vary across group types. Business and occupational groups are the most involved groups in the administrative venue (as predicted by Culpepper 2011) and also invest in the direct democracy venue to preserve the policy status quo. By contrast, public interest groups are relatively more present in the legislative and judicial venues. Furthermore, the status-quo is overwhelmingly defended by 93% of all business and organizational groups, with support from 87% of all public interest and 78% of other group types. On the contrary, religious groups are more divided, with half supporting the status-quo while the other half lobbying for policy change.

*** Put Table 4 (Institutional venues and groups' mobilization) about here ***

Digging deeper in the descriptive statistics, table 5 crosses the number of venues where a group is active with the number of coalitions the group joins. The exercise is highly instructive, as it shows that very few groups are both multi-venue and team players. Only 4.6% of all groups mobilized in two or more venues and, at the same time, are members of two or more coalitions. All of them are pro-status quo, and six are business and occupational groups, including hospitals, research institutes and universities, and one is a public interest group (Juvenile Diabetes Research Foundation). As a corollary, over 87% of all groups invest time and resources for advocacy activities in one single venue, and while about 37% of

groups elect to advocate alone, almost half of all groups (47%) join one coalition and less than 4% of groups join two coalitions in the same venue.

Both findings are in sharp contradiction with most survey data based on self-reported groups' behavior. In quantitative surveys about the prevalence of different tactics, groups generally declare using very diverse advocacy tools, in many venues and through several coalitions (e.g. Nownes and Freeman 1998; Binderkrantz 2005; Furlong and Kerwin 2005; Kriesi et al. 2007). However, our findings confirm the results of the study conducted by Pedersen et al. (2014) on the multi-venue involvement of Danish groups during 225 law-making processes: only 13% of all groups participate in both the administrative consultation (bill preparation) and the parliamentary committee activities (bill treatment). In a nutshell, most groups seem to engage in one venue only, at least in California and Denmark.

Put Table 5 (Multi-venue mobilization and Multi-coalition membership) here

As our theoretical hypotheses focus precisely on the very few multi-venue and team players, we scrutinized their respective websites to identify their missions and memberships, political staff, etc. These groups share the following traits: they are well-established organizations and display a high level of professionalization, including for political activities. Unsurprisingly, the policy issue at stake directly affects their core business (i.e. research centers). They thus belong to the dominant category of groups mobilized during the whole policy-making process. Finally, all groups are in favor of the development of hESC research. This means that they defend the status quo in ten out of the eleven decisions, as only the first law (S.B. 253) introduced a substantial policy change by allowing for the first time the research on hESC. The groups opposed to the development of hESC research (i.e. religious groups) did not mobilize in many venues or join many coalitions. Moving one step further, the next section presents the empirical test of the theoretical hypotheses.

3.2. Are pro-status quo groups occupying a central network position more successful?

To investigate the extent to which pro-status quo groups, which are multi-venue and team players, might enjoy higher advocacy success, we conduct a multiple regression analysis. This is a common approach to investigate predictors at the actor level and to explain attributes of an actor at the interval level (such as "preferred outcome"). To ensure that the dependent variable is independently identically distributed, we applied the OLS regression analysis on UCINET (Borgatti et al. 2002; v.6.582, see also Borgatti et al. 2013), which integrates a random permutations method for constructing sampling distributions of R-squared and slope coefficientsⁱⁱⁱ. The model's main variables were already depicted in Table 3. However, one point should be highlighted: the variable "multi-venue player" was operationalized through the nBetweenness score of a group in the decision network (i.e. the number of times a group lies on the geodesic path between two binding decisions). This theoretical choice is strongly supported by the empirical data. The match between a high nBetweenness score and a high multi-venue mobilization is almost perfect. In other words, the nBetweenness centrality is indeed a valid indicator for groups' activities across different venues.

Our model estimates if the likelihood of advocacy success is higher for groups that are defenders of the policy status quo, central in the decisions' network, or in the coalitions' network. We consider these strategies individually and include an interaction term for the groups that participate in pro-status quo decisions or in pro-status quo coalitions' networks. We also test whether groups with more advocacy experience (proxied by organizational age) and resources (type business or occupational) enjoy a higher rate of success in addition to their selected strategy. There are no problems of collinearity between these variables (see Table 8 in Appendix).

Results show that empirics fully support the general expectation of increased advocacy success for the pro-status quo groups (Baumgartner et al. 2009), as stated in our first hypothesis. The pro-status quo coefficient is positive (0.517) and significant (at $p \leq 0.01$)^{iv} even when controlling for network position, age and resources, as shown in Table 6 (see also Model 5 in Table 7, Appendix). By contrast, the results show that neither being active in many venues nor participating in many coalitions impact advocacy success, with the coefficient on these variables failing to return statistical significance (see also Models 2, 3, and 4 in Table 7, Appendix). When integrating pro-status quo preferences, being a multi-venue player (nBetweenness decisions) might even negatively affect one's advocacy success. However, pro-status quo groups do not seem to be unduly affected by this effect, but seem to suffer when participating in many coalitions (see the interaction effects). But those results have to be treated with caution, as the interactions terms taking into account the multi-venue mobilization (hypothesis 2) and coalition membership (hypothesis 3) of pro-status-quo groups also return non-significant results. Our second and third hypothesis are therefore left unverified.

Additionally, we also control for the causal effect between business and occupational groups, and the presumed availability of financial resources and professionalization for engaging in advocacy activities, and advocacy success (hypothesis 4). The coefficient for the "IG Business" variable is positive (0.043) but hardly significant (at $p \leq 0.1$). The intensity of mobilization, and therefore resource advantage of business groups is observed in the direct democracy (i.e. the coalition supporting Proposition 71 raised almost \$25 million, 37 times more than its opponents) and administrative venues (i.e. technical expertise and staff for monitoring and commenting on rulemaking by the CIRM), but not in the legislative and judicial venues. Thus we find some indications that business and occupational groups can translate their (postulated) resource advantage into a higher advocacy success rate, compared

to other group types. Finally we examine how advocacy experience (proxied by organizational age) might enhance the advantages of groups, and find lack of support for our fifth hypothesis. Advocacy experience does not seem to generate benefits for interest groups.

Put Table 6 (Regression analysis) here

All in all, the empirical results yield mixed evidence with respect to our five specific theoretical hypotheses. On one hand, this study confirms once again the endurance of the policy status quo, using a process-tracing methodology that accounts for the path of the policy process across all available institutional venues. Defenders of the policy status quo display higher levels of advocacy success than challengers proposing a substantial policy change. On the other hand, pro-status quo groups mobilizing in many venues do not systematically outperform status-quo defenders advocating in only one venue, and pro-status quo groups that are team players do not experience additional success compared to status quo defenders working alone. In fact, we were unable to identify the effect of advocating in multiple venues or in several coalitions on lobbying success, for groups supporting or changing the status quo. Additionally, and in line with the ambivalent results of previous studies, it appears that groups defending business interests take only a slight advantage of their resources to better realize their policy preferences. Finally, advocacy experience does not appear to affect preference attainment.

4. Conclusions

The major aim of this study was to identify under which conditions a pro-status quo interest group can realize its preferred policy outcome. To answer this question, we developed an innovative framework and methodology, by placing groups' advocacy activities in their policy context. The collected behavioral data captures a diverse set of groups in all

institutional venues activated during an entire policy-making process. The theoretical approach is therefore ambitious in comparison to previous studies focusing either on lobbying (the legislature or the administration), litigation or direct democracy campaigning. Furthermore, this study applied tools of Social Network Analysis (SNA) to capture groups' embeddedness in multi-venue involvement and coalition networks. This allowed for a straightforward link between the level of advocacy activities across the policy process, the group's position in the policy network and toward the policy at stake (i.e. status quo defenders vs. challengers), and finally advocacy success.

The empirical results first and foremost support prior findings regarding a pro-status quo advantage, which can now be extended through time and the path of a policy debate across several institutional venues. In contrast, this study reveals that multi-venue and team players do not display higher advocacy success than groups lobbying in one venue and alone, whether or not they are defending the status quo. In SNA jargon, actors with high *n*Betweenness or *n*Degree centralities and opposing a policy change are not the most successful. This finding is not in line with previous (SNA) literature on interest groups. By contrast, being a business or occupational group with a supposedly large resource endowment increases the chances of realizing one's preferred policy outcome. The fact that business groups' advocacy activities payoff is contrary to findings of previous studies (Baumgartner et al. 2009; McKay 2012) which found that the resources and membership size of a group have no significant correlation with its ability to realize its preferred outcome. However, resources endowment is not a very strong predictor for advocacy success in our models. This does not mean that resources do not matter at all, but that the impacts of resources is limited by the type of issue at stake, the heterogeneity of actors' coalition and the counter-mobilization by opponents that are also well-endowed with a financial budget, a large membership and qualified staff, or by the particular characteristics of the institutional venue.

More striking in our results are the very small number of multi-venue players and the missing link between multi-venue involvement and advocacy success. This puzzling result shall be further investigated with a process-tracing approach. Such an approach should consider interdependencies between decisions, venues, and the related path-dependent group behavior. Simply put, a group might lobby in one venue due to past (or desired future) involvement in another. For example, as discussed earlier, a group might mobilize in rulemaking to preserve its right of appeal in the judicial venue. If confirmed, such finding would contribute to explain why multi-venue involvement does not translate into higher advocacy success.

Furthermore, the present study has several limitations and opens the path to new (SNA) studies on interest groups. First, the realization of the group's "preferred outcome" was measured empirically as a very rough proximate for capturing the (perceived) advocacy success (Bernhagen et al. 2014). Nevertheless, the "preferred outcome" variable goes one step further than the dependent variables used previously by Beyers and Braun (2013), who capture "venue access" and "advocacy intensity" of groups. Of course, venue access is a precondition for any policy influence (Eising 2007) and thus deserves analytical attention. But we claim that future (SNA) studies focusing on many institutional venues and coalitions should aim at measuring the policy impacts of groups' advocacy (Box-Steffensmeier et al. 2013; Heaney and Lorenz 2013) during a whole policy-making process and to test if and to what extent the "preferred outcome" variable is a robust correlate of (perceived) advocacy success and, eventually, a good predictor of policy influence.

Second, the behavioral data collected here could be complemented with survey data about groups' self-reported mobilization, exchanges within and across coalitions and perceived advocacy success. It would then be fascinating to compare the results of two SNA

based on behavioral versus self-reported data respectively (Mc Kay 2012; Bernhagen et al. 2014).

Third, groups are one type of policy actors among others. In other words, a full SNA should include a variety of relevant policy actors such as political parties, legislators, judges, scientific experts, etc. Thus the target groups of the groups' advocacy activities are missing in the present study. To consider the flip side would be very instructive indeed. This additional step is required to isolate the net impact of groups on policy processes and outputs.

Fourth, the reasons behind the prevalence of advocacy success for status-quo defendants warrants further investigation, particularly because the data for this analysis illustrates a bias in preference attainment, but not necessarily in policy influence. In other words, by using preference attainment we remain a few causal steps away from showing that these groups are actually successful in impacting policy change, and it may be that the institutional design through which a new policy must emerge is so advantageous to the status quo that the groups defending it appear more successful in their advocacy strategies.

We conclude that one major added value of this study was (1) to extend the analysis and to take four institutional venues of the policy process into account; (2) to go one step further, not only investigating access to decision-makers, but also advocacy success as dependent variable; and (3) to combine classical variables of the interest groups literature (such as position vis-à-vis policy status quo, organizational age and resources) with SNA measures of the network position of groups. To gain "the full picture" of advocacy strategies and success, it would however be worth triangulating this approach with a survey-based and multi-actors analysis. Finally, one promising future research path is the in-depth analysis of the causal links between a group's network position, the success of its advocacy activities and, eventually, its policy influence. The integration of the last element of this chain (i.e. influence on policy process and outputs), together with the inclusion of political parties,

bureaucrats, judges etc. could probably help us resolve the puzzle of multi-venue and multi-coalition involvement that we uncovered here.

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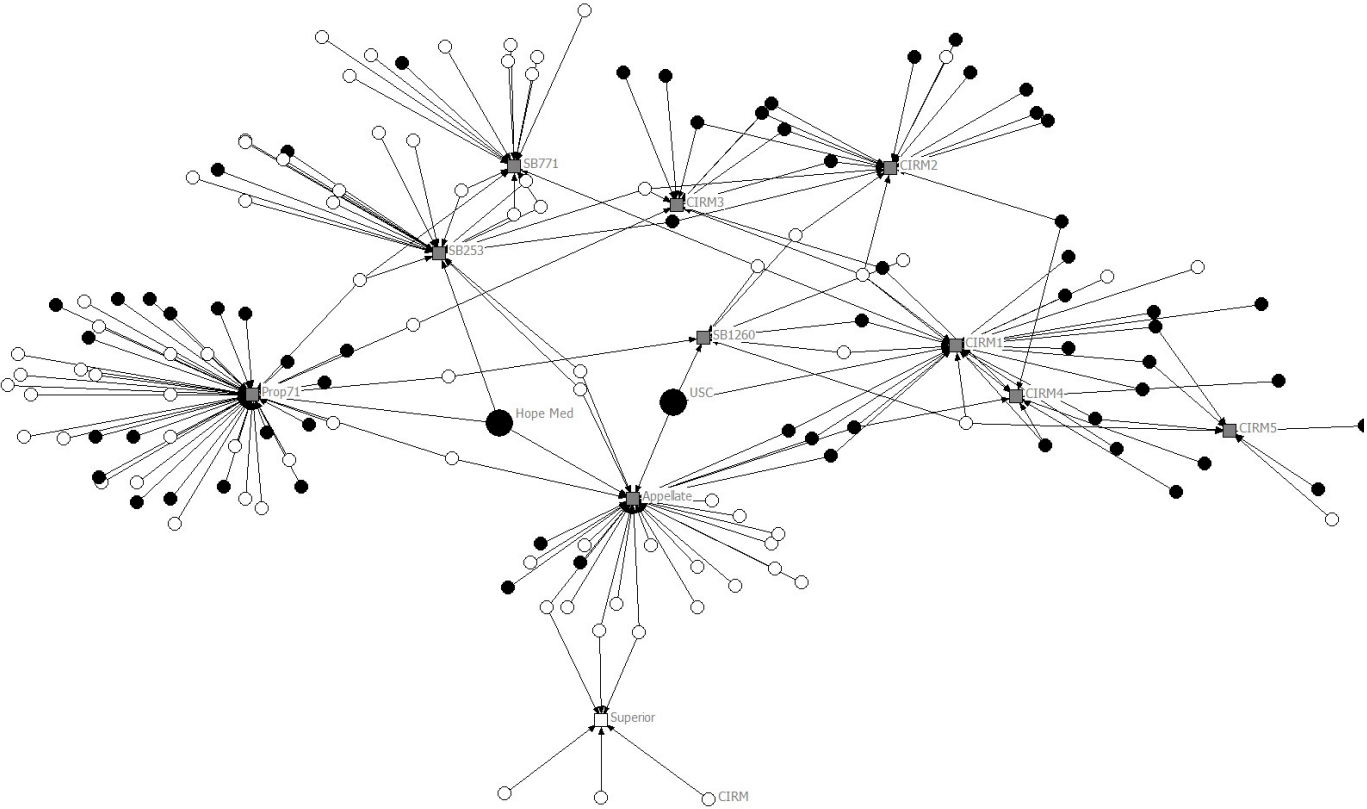
Table 1: Research hypotheses

The likelihood of realizing a preferred policy outcome (i.e. advocacy success) is higher for...	groups defending the policy status quo (H1)
	pro-status quo groups mobilizing in several institutional venues (i.e. multi-venue players) (H2)
	pro-status quo groups joining several advocacy coalitions (i.e. team players) (H3)
	groups with more resources (i.e. business and occupational groups) (H4)
	groups with more advocacy experience (i.e. older groups) (H5)

Table 2: Venues and binding decisions concerning research on human embryonic stem cells

Chronology of the policy process	Legislature (bill enacted)	Administration (rule-making)	Judiciary (court decision)	Direct democracy (popular vote on initiative)
2002	(1) SB 253: Law allowing research on hESC			
2003	(2) SB 771: Law requiring an anonymous embryos registry and regulating informed consent of embryos' donors			
2004				(3) Proposition 71: Research on hESC is a constitutional right, \$3 billion investment over 30 years and creation of the California Institute for Regenerative Medicine (CIRM)
2006	(6) S.B. 1260: Law extending the duration of SB 253 and SB 771, and requiring a biannual reporting on hESC research	(5) CIRM I: Rules on medical and ethical standards	(4) Alameda County Superior Court: Prop 71 is constitutional and the bonds issued are valid	
2007		(7) CIRM II: Rules on Intellectual Property (IP) Policy for Non-profit Organizations	(8) Court of Appeal, First District: Prop 71 is constitutional	
2008		(9) CIRM III: Rules on IP and Revenue-Sharing for For-Profits		
2009		(10) CIRM IV: Rules on IP and Revenue-Sharing Requirements for Non-Profits and For-Profit Grantees (11) CIRM V: Rules on medical and ethical standards		

Figure 1: Two-mode network with groups and decisions



Note: black nodes = business and occupational groups; white nodes = union, religious and public interest groups; grey nodes = decisions

Table 3: Definitions and measurements of variables

Variable's definition	Measurement for one binding decision (in one specific venue)	Measurement for the whole policy process (i.e. over all venues)
<p>"Advocacy success" is defined as the realization of the group's preferred outcome.</p>	<p><u>Legislature</u>: 1 if the group supports a bill that becomes enrolled; 0 otherwise.</p> <p><u>Administration</u>: 1 if the group supports a proposed rule or asks for a modification of the proposed rule that is accepted by the rule-making agency, or opposes a proposed rule that is deleted by the agency; 0 otherwise.</p> <p><u>Direct democracy</u>: 1 if the group supports a ballot proposal that is accepted by the voters or opposes a ballot proposal that is rejected by the voters; 0 otherwise.</p> <p><u>Courts</u>: 1 if the Court's ruling on the substantive causes of action are in favor of the group; 0 otherwise.</p>	<p><u>Policy process</u>: sum of the group's preferred outcome per venue / sum of the venues in which the group mobilizes (i.e. advocacy success as an interval between 0 and 1)</p>
<p>"Pro status quo" is defined as the group's position vis-à-vis the policy status quo.</p>	<p><u>For all venues</u>: 1 if the group indicates a preference towards maintaining the policy status quo on any one decision; 0 otherwise.</p>	<p><u>Policy process</u>: sum of pro-status quo mobilizations / sum of total mobilizations (i.e. pro status quo)</p>
<p>"Betweenness" is defined as the group's mobilization in several venues. (Multi-venue player if mobilization in several venues)</p>	<p><u>Legislature</u>: 1 if the group lobbies a bill; 0 otherwise.</p> <p><u>Administration</u>: 1 if the group sends letter(s) to the rule-making agency (comments on a proposed rule); 0 otherwise.</p> <p><u>Direct Democracy</u>: 1 if the group contributes financially to the voting campaign; 0 otherwise.</p> <p><u>Courts</u>: 1 if the group is a party in the suit; has a third party status or (co)-signs an <i>amicus curiae</i> brief; 0 otherwise.</p>	<p><u>Policy Process</u>: sum of times a group lies on the path between two decisions in the same venue or in two different venues / sum of all possible positions between two decisions (i.e. nBetweenness decisions)</p>
<p>"Coalition membership" is defined as the group's mobilization through a coalition of at least two groups. (Team player if multi-coalition membership)</p>	<p><u>Legislature</u>: 1 for groups using the same lobbying firm during the legislative year of the decision as at least one other group, 0 for a group mobilizing alone.¹</p> <p><u>Administration</u>: 1 if the group cosigns a letter of comments about a proposed rule; 0 otherwise.¹</p> <p><u>Direct Democracy</u>: 1 if the group contributes financially to a campaign coalition; 0 if the group declared having lobbied on the Proposition but didn't give money.</p> <p><u>Courts</u>: 1 if the group cosigns an <i>amicus curiae</i> brief to support a party in the suit¹; 0 if the group mobilized outside of</p>	<p><u>Policy process</u>: sum of the observed group's coalition membership in all venues / sum of all possible coalitions in all venues (i.e. nDegree coalitions)</p>

	an amicus brief coalition.	
"Type of group" is defined according to the main features of the group (objective, members, etc.).	<u>For all venues:</u> 1 for groups that are business-oriented groups or firms (e.g. peak-level or sector level associations, private firm) and for occupational groups as well (e.g. doctors' association, universities); 0 for IGs that are unions, institutional associations, identity groups (e.g. patients, elderly, women), religious groups (incl. churches) and public interest groups (e.g. humanitarian, consumer, catch-all foundations) (i.e. Business group)	
"Organizational age" measures the advocacy experience of the group.	<u>For all venues:</u> the age in years of the organization on the date of the last decision of the policy process	

¹We capped the measures of coalition membership to 1 if the group participated in more than one coalition per decision; or sent more than 1 letter of comments per round in rule-making proceedings.

Table 4: Institutional venues and groups' mobilization by group type

	Legislature	Administration	Judiciary	Direct Democracy
Business & Occupational (n=70)	7	41	11	21
Public Interest (n=50)	16	9	19	14
Religious (n=18)	9	1	1	9
Others (n=14)	7	1	3	4
Total N=152	39	52	34	48

Note: Sums across the rows are more than the total number of groups per type or in all, since some groups are active in more than one venue.

Table 5: Multi-venue mobilization and multi-coalition membership by group type

	1 venue			2+ venues		
	NO coalition	1 coalition	2+ coalitions	NO coalition	1 coalition	2+ coalitions
Business & Occupational (n=70)	21	35	6	1	1	6
Public Interest (n=50)	16	26		2	5	1
Religious (n=18)	9	7			2	
Others (n=14)	10	3			1	
Total N=152 (100%)	56 (36.8%)	71 (46.7%)	6 (3.9%)	3 (2.0%)	9 (5.9%)	7 (4.6%)

Table 6: Regression analysis for variables influencing IGs advocacy success

R ²	0.2444
F	6.008
Prob > F	0.011
<i>Coefficient</i>	
Pro-Status quo	0.517*** (0.139; 0.000)
nBetw decisions	-4.830 (3.873; 0.201)
nDegree coalitions	0.987 (0.925; 0.284)
Interaction Status quo/Betwee	6.576 (5.171; 0.189)
Interaction Status quo/Degree	-0.601 (1.050; 0.567)
IG Business	0.043* (0.083; 0.091)
Age	0.042 (0.166; 0.801)
Residual group	0.210 (0.205; 0.000)

Note: Levels of statistical significance: ° $p \leq 0.1$, * $p \leq 0.05$, ** $p \leq 0.01$, *** $p \leq 0.001$

As not for all 152 groups previously included in the descriptive statistics, the variable age could be investigated, the number of groups included for this analysis is 138.

First number between brackets are “standard errors”, second number are the “proportions as extreme as the real coefficient”. Permutation standard errors (as obtained by the node-level regression provided on UCINET Version 6.582 run here) are the standard deviation of the coefficients obtained by running the regression with the Y values permuted. This does not correspond to the classical standard error test where estimated betas could have varied given sampling variation. Therefore, and in permutations as displayed here, the p-value is obtained by counting how often a coefficient from a randomly permuted regression was as large (or small, thus extreme) as the real coefficient (see second number between brackets).

ⁱ Figure 2 in the Appendix shows the 2-mode networks for groups and coalitions.

ⁱⁱ Although we use similar approaches as Box-Steffensmeier et al. (2013) or Heaney and Lorenz (2013) to assess network positions, our choice of the centrality measures differs. Unlike Box-Steffensmeier et al. (2013), we are not interested in the most dominant or powerfully connected groups, which would be typically assessed through "eigenvector centrality". First, and to assess central network positions in the coalition network, we rely on simple degree centrality as it gives us the most straightforward indication of coalition participation in the respective processes. Second, and to assess central network positions in the decision network, we rely on Betweenness centrality. Betweenness centrality works as an explicit indicator for group's activity within several decisions across different venues. This approach works particularly well in our analysis of the decision network where we have several decisions per venue.

ⁱⁱⁱ "In a first step, it performs standard regression across corresponding cells of the dependent and independent vectors. In a second step, it randomly permutes the elements of the dependent vector and re-computes the regression storing resultant values of r-square and all coefficients. This step is repeated a thousand times." (see UCINET help file on <http://www.analytictech.com/ucinet/help/423udi3>; see also Borgatti et al. 2002).

^{iv} Note that regression models were also calculated for a binary dependent variable of preference realization. The binomial logit regression was run with "tnam" in the "xergm" package on R (Leifeld et al. 2015). If the operationalization of the dependent variable as binary data is not coming as close to the reality as the interval, results (not displayed here) also strongly confirm a significant tendency of pro-status quo positions having an impact on advocacy success.