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Diffusion of Legal Innovations: The Case of Israeli Class Actions

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Under the standard model in law and economics, agents maximize expected profit subject to constraints set by legal rules. In such a model, the expected reaction to legal innovations is immediate. However, this is not what we observe after class actions have been introduced into Israeli law. For a long time, the new procedure was rarely utilized. Then, the adoption process gained momentum. We discuss alternative explanations for this phenomenon. We find that class action filings are explained not only by law firms' own litigation outcomes, but also by the available information about other firms' success, and their cumulative filing pattern. We thus explain the observed filing pattern by both individual and social learning, and cannot exclude mere social imitation.

I. INTRODUCTION

The legislator speaks and nobody listens. In the world of standard economic models, this cannot happen. These models view legal entitlements as part of agents' opportunity sets. Agents utilize a new legal entitlement if it increases their expected profit. They assess the costs and benefits of the available alternatives, assign (possibly subjective) probabilities to uncertain events, calculate the expected value of each alternative, and select their best choice. Arguably, reality is different. It may take years before a new legal remedy is widely used. Legal reform does not stop with the adoption of the rule in parliament or court. It requires implementation by individual agents who learn about their new entitlement (Engel 2008), and trust it.

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In this article, we argue that the implementation of legal innovations should be modeled as a dynamic process that requires individual and social learning, akin to the diffusion of product innovations. The innovation literature is interested in a product, trend, technology, or ideology that is newly introduced into a system (Rogers 2003:12f.). Successful spread of an innovation depends not only on its intrinsic quality and its suitability for potential adopters, but also on the particular structure of the social system into which the innovation is released, and on influence patterns among the members of that system. The diffusion of innovation is "the process by which the prior adoption of a trait or practice in a population alters the probability of adoption for the remaining non-adopters" (Strang 1991:325). The feedback effects from prior adoption decisions by others to one's future decisions are explained by alternative mechanisms such as naïve imitation, conformity seeking, or "social learning" (Chamley 2003). The latter asserts that adoption is based on Bayesian updating in light of accumulating evidence about the adoption and profitability of the innovation (Bikhchandani et al. 1998).

To the best of our knowledge, in the law and economics literature, and in papers written in this tradition but specifically addressing policymakers, the diffusion challenge is often overlooked. This literature is our prime audience. In addition, we also seek to make a contribution to diffusion research as applied to the law. Legal scholarship has been chiefly interested in the diffusion of legal rules from one legal system to another—for example, transplants of institutions between countries, states and courts (Twining 2004–2006; Romano 2006; Westbrook 2006; Goderis & Versteeg 2014; Graham 2015). Our focus is on the critical role of legal professionals. We use diffusion models to predict how private attorneys, that is, legal professionals, utilize a new remedy or procedure.

The Israeli law of class action is an ideal case for testing our conceptual claim. The class action procedure was reformulated in 2006 with the enactment of the Class Action Law (CAL). Yet for almost a year, the procedure was only rarely used. Following this "incubation" period, class actions started to be filed more frequently, and from then on, their frequency has grown exponentially.

We have collected data on *all* class actions that were filed between the law becoming effective in April 2006 and August 2012 (N = 2,056). The cases were drawn from computerized court records and were coded by law students who read all relevant case documents, including motions, hearing protocols, settlement agreements, and court decisions. We know which law firm filed which case, which court and which judge handled the case, its subject matter, and the case outcome. We use this rich dataset to study the diffusion dynamics of Israeli class actions.

In many respects, class actions are well suited to study the dynamics that underlie the spread of legal innovations. Class actions are almost exclusively initiated by attorneys, who search for available causes of action and then look for class members who may act as representatives (Fisch 1997; Hensler et al. 2000; Gilles & Friedman 2006). Class attorneys bear most of the costs and risk in class action litigation. Through contingent fees, they are also the primary beneficiaries if they win or settle the case. In addition, Israeli law mandates that all class action filings and outcomes are published in an online open register.¹ This offers an opportunity to examine the diffusion of a legal innovation among presumably rational and highly informed agents. Finally, it is relatively easy to measure and compare the benefits adopters gain from using the innovation because the individual lawyer's fee is determined by the court. This renders it possible to disentangle individual from social learning.

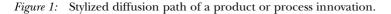
We investigate whether class action filing patterns are in line with diffusion paths identified in the literature on product diffusion (Young 2009; Shur-Ofry et al. 2016). For each law firm in our dataset, we distinguish between its first class action suit ("market entry") and its subsequent class action filings ("market participation"). While the former can only be a result of social effects, the latter is potentially also influenced by individual learning.

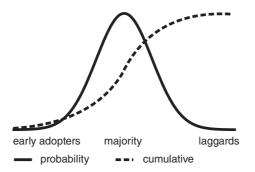
We find that *market entry* decisions are independently explained by the participation of others in the market, and by their success. *Market participation* is explained by participation and success of others, and it is additionally explained by a law firm's own success rate in previous class actions it has filed. The effect of individual success shows that firms learn from their own experiences as well.

Since, conditional on the effect of participation by others, there is a significant effect of others' success, the adoption of the new procedure cannot be exclusively driven by imitation, but involves social learning. However, since we find a separate effect of the participation of others on entry, and since this effect is already present when only very few cases are closed, imitation cannot be ruled out. With our data, we cannot, however, discriminate between the two: law firms may simply imitate other law firms, or they may deem the decision of other firms to engage in this market to be informative. While nobody can assess with certainty whether this line of business is profitable as long as only few cases have been closed, arguably each law firm that brings a case has assessed the prospect, and deemed it positive. This allows newly entering law firms to decide on a broader information base. If they reason in a Bayesian manner, the number of cases that have been filed is new information that allows them to update their own (prior) assessment.

We are fortunate to have complete data. However, they include only class actions filed *in Israel* since the introduction of the new procedure. We cannot compare Israel with another jurisdiction that does not offer the same procedure. Israeli law firms have not been randomly assigned to this treatment. We only observe law firms that, at least once during our period of observation, have filed a class action. In this respect, our sample is selective. For all these reasons we are not in a position to identify the causal effect of the availability of class actions on law firms' choice among alternative lines of business, or the causal effect of one of our explanatory variables on the decision of a law firm not in our sample to enter the market. This, however, is not our research question. We want to test alternative theories for the diffusion of legal innovation. The critical empirical question we address is: Are our data consistent with some and inconsistent with other

¹See Section 28 of CAL. The register is intended, among other things, to enable the general public and the represented class to participate in the process (e.g., to oppose an agreed compromise) and to prevent parallel claims.





theoretical claims for the diffusion process? Since we perform this test only for Israeli class action, we flag the exercise out as a *quantitative case study*.

The article unfolds as follows: in the next section, we introduce main aspects of the vast diffusion literature and discuss the small, yet growing, discourse on the diffusion of legal innovations. Section III presents our case study: we elaborate on the substance and enactment process of the Israeli class action law, describe the generation of the data, and present our hypotheses. Section IV reports our results. Section V discusses what implications can be drawn about the mechanism underlying the observed diffusion of class actions. Section VI concludes.

II. LITERATURE AND THEORY

A. Theories of Innovation Diffusion

The extensive literature on innovation diffusion spans economics, marketing, sociology, anthropology, and political science.² Diffusion studies investigate the feedback effect from prior decisions to adopt an innovation on future decisions made by others. Most feedback effects follow an S-shaped pattern, where the temporal rate of cumulative adoption is derived from a symmetric bell-shaped curve that describes the distribution of adopters (see Figure 1). The process starts out slowly with "innovative" adopters who are willing to try out the new product or process independently of others. They often possess more financial resources and information, allowing them to sustain higher degrees of uncertainty and a possible loss from an unsuccessful innovation. The diffusion process gains momentum with early adopters, who usually enjoy opinion leadership status. The early adopter is respected by her peers and serves as a role model for many other members of a social system (Rogers 2003:282–84). After a while, the number of new adopters

²For reviews of this literature, see, for example, Rogers (2003), Greenhalgh et al. (2004), Baptista (1999), Graham et al. (2013), and Diebolt et al. (2016).

rises sharply and a successful innovation reaches a "tipping point," from which moment on its further diffusion is almost automatic (Shur-Ofry 2009). In the end, laggards slowly join in, the diffusion curve flattens, and, ultimately, reaches a saturation point (Shur-Ofry et al. 2016).

Various theoretical models seek to explain the S-shaped diffusion curve (Young 2009). A basic model was introduced in the marketing literature by Bass (1969). According to this model, innovations spread much like a contagious disease. Adoption occurs as potential adopters are exposed to actual adopters and thereby learn about the new technology. Adoption is slow at first, as few individuals know about the innovation. As more people adopt the technology, information about it spreads, leading to a period of rapid adoption.

The sociological literature focuses on the importance of social pressure for individual adoption decisions. According to this model, the spread of innovation is driven by a conformity-seeking motive. Individuals have different thresholds that determine whether they will decide to adopt, based on the number and identity of those who have already adopted. The growth in the number of adopters motivates additional people, who are less susceptible to social influence, to join in and adopt the innovation. This creates a positive feedback process: The more people adopt the innovation, the greater the number of people whose threshold for joining has been satisfied (Schelling 1978; Rogers 2003; Lopez-Pintado & Watts 2008).

By contrast, (mainstream) economists have stressed the rationality of individual adoption decisions (Hall & Rosenberg 2010). Economic models assume that individuals adopt the new product or process if the expected benefit exceeds the expected cost. When individuals can assess the cost and benefit achieved by early adopters, it creates an opportunity for direct social learning. Even if this information is not perfect, for instance, since unobserved case characteristics are likely to differ, it still is a valuable signal for the profitability of the innovation. In fact, the mere decision of others to adopt the product or process may be informative. It may signal that others deem the innovation profitable. Individuals can rely on these signals to update their own (prior) expectations through Bayesian learning (Chamley 2003). The signals can be more influential when previous adopters are better informed about the innovation's value. In a rational expectations framework, the number of adoptions increases as relevant information accumulates (Bikhchandani et al. 1998). Individuals adopt at different times due to differences in their prior beliefs, the amount of information gathered, and idiosyncratic resources and costs. If the innovation exhibits network externalities, the S-shaped adoption pattern is further caused by the fact that the benefit increases or the cost decreases as the innovation is more widely used.³

Evolutionary economists think otherwise. Although keeping the individualistic starting point, they stress that it can be individually rational to postpone the adoption of a new technology. One reason is aversion against quality risk. If consumers' risk

³Institutional research on diffusion of innovation combines sociological and economic models by suggesting that motivations for adoption progressively shift as innovations diffuse. Whereas early adoptions are primarily explained by the search for economic benefits and initially foster diffusion based on rational assessment, late adoptions are triggered by mimicking and reflect increasing isomorphic pressures (Tolbert & Zucker 1983; Kennedy & Fiss 2009; Compagni et al. 2015).

preferences are heterogeneous, this can even lead to a "lock-in" equilibrium where the innovation never spreads (Bogliacino & Rampa 2012). Yet this is clearly not what we observe.

The literature on the diffusion of political choices discusses further causes that are unlikely to matter for the decision of law firms to employ a newly introduced legal remedy. Remedies are options, so that no law firm is coerced to enter this new market (cf. Dobbin et al. 2007; Shipan & Volden 2008). In principle, law firms could compete over a limited set of cases that invite class action, and could desist from entering the market if they are concerned that the best opportunities have been picked (cf. Dobbin et al. 2007; Shipan & Volden 2008), but as we show below, the number of class actions steadily increases over time during our period of observation. It therefore seems that competitive pressure is not an important factor in explaining these data. Political scientists also consider the possibility that a new institution changes how political actors construe a policy problem (cf. Dobbin et al. 2007; Shipan & Volden 2008). Yet for our case, whether law firms see class action as part of their choice set is not conceptually distinct from learning about its availability or profitability. We therefore acknowledge the constructivist possibility, but see no reason to separate it from our learning approach. Lawyers might be more concerned about (personal) accountability, or opportunities on their job markets, than the profit of their firm (Dobbin & Kelly 2007; Glick 2013), in the same way that policymakers may be more concerned about the likely reactions of their electorate than about the welfare of their country (Mooney & Lee 1999; Pacheco 2012). Investigating this channel would require that we study the sociology of adopting, compared with nonadopting, law firms. This is beyond the scope of our article.

Our goal in this article is to study how different types of information affect agents' decision to adopt an innovation. We examine three alternative sources of information. First, an agent may observe that others adopt the innovation. Second, she may observe whether it has paid for them to do so. Third, she may observe the outcome of her own decision to adopt, and whether it was profitable. These three types of information can be distinguished, and their correlation with individual decisions to adopt an innovation can therefore be tested. In a private learning model, the agent's decision depends only on her own experiences. If social learning (Bayesian updating) or imitation matter, adoption decisions are (exclusively or additionally) explained by the fact that others are active in the market. The outcomes of past adoptions provide direct evidence about the utility of the product and can influence future adoptions only through social learning.⁴

B. Diffusion of Legal Innovations

In comparison to the rich social science literature on the diffusion of innovative products, technologies, and ideologies, the diffusion of legal innovation has attracted much

⁴While some accept only this as social learning (Berry & Baybeck 2005:505; Shipan & Volden 2008:841), other authors accept any change in beliefs about cause and effect (Elkins & Simmons 2005). It could result from the mere fact that other individuals adopt a new opportunity. For further discussion on learning theories in political science, see Dunlop and Radaelli (2013).

less attention. Some papers have used the terminology of diffusion to address legal transplants from one legal system to another (Twining 2005, 2006; Shur-Ofry et al. 2016). Similarly, the diffusion paradigm has been used in explaining patterns of adopting legal reforms among U.S. states (Walker 1969; Gray 1973) and cities (Lozner 2004); the migration of corporate law norms from one U.S. state to another (Romano 2006) and across different legal traditions (Spamann 2009); the diffusion of constitutional rights among countries (Goderis & Versteeg 2014); the diffusion of consumer protection legislation (Ford 1978); and the diffusion of doctrinal innovations in tort law or expert evidence among different state courts (Kritzer & Beckstrom 2007; Graham 2015). However, this research typically takes the legislating state or country as the primary decisionmaker.

In an often-cited paper, Twining calls for expanding legal diffusion research on decisions made by individual addressees of the law: "In addition to macroscopic studies of large-scale receptions, there is a need for middle-order and microscopic analyses of particular examples of diffusion, involving detailed focus on interactions and perceptions of actors" (Twining 2005:240). Yet, only few papers address the decisions made by nongovernmental organizations to adopt legal innovations. Glick (2014) examines the decisions of colleges and universities to respond to legal changes, and the extent to which such decisions are made by mimicking the decisions of similar institutions. Rosen (2005) and Barnes and Burke (2006) discuss responses of diverse organizations to the accommodation provisions in the Americans with Disabilities Act and related state laws. Edelman (1992) demonstrates how firms create "organizationally constructed symbols of compliance" with the 1964 Civil Rights Act. Romano and Sanga (2017) study the adoption of exclusive forum clauses among public corporations and conclude that their diffusion is driven by the law firms representing those firms in the IPO. They describe the pattern of adoption as a light-switch model, in which once a law firm includes a clause in an IPO, it does so for all subsequent IPOs. The pivotal role of law firms in the diffusion of legal remedies is further supported by our article.

Rampa and Saraceno (2016) theoretically study the dynamics of setting precedents in courts, based on a micro-founded Bayesian model of the litigation decisions of individuals. Their model explores the dynamics involved when individuals observe past court decisions, update their beliefs concerning the merits of their cases, and consequently decide whether to file additional lawsuits on similar issues. These dynamics affect the development of precedents, as some litigation is encouraged by past decisions, whereas other litigation is discouraged.

In this article, we expand the legal discourse on diffusion of innovations by focusing on legal professionals' decision to utilize a new legal innovation already introduced into a legal system—the class action. We are interested not in the macro (state or organization) level, but in the micro-level decision of individual lawyers and law firms to adopt a new legal remedy. Our approach differs from most previous research in three main respects.

The first respect is the unit of analysis. While legal studies have largely focused on the diffusion among large organizations, countries, or legal systems, we study diffusion among individual adopters. Lawyers are vital agents in spreading any legal innovation: they are part of a relatively close network, with more social interactions and ties than the general public, thus stimulating a faster diffusion process. Furthermore, in comparison to the general public, lawyers are better informed about the outcomes and implications of legal reform, and they are better positioned to assess its risks, costs, and benefits. Yet, in most cases of legal change, the suitable unit of analysis would also include clients and judges, to changing degrees. Class actions are unique, in this respect, as they are almost exclusively initiated by attorneys, who search for available causes of action and then look for class members who may act as representatives (Fisch 1997; Hensler et al. 2000:72; Gilles & Friedman 2006).

The second point of departure refers to the nature of the adoption decision: legal studies tend to focus on a binary one-time organizational decision to adopt a legal innovation. Once the legislator decides to adopt a new legal regime imported from another state, it is very difficult to turn back. This is akin to diffusion processes where one technology replaces another. By contrast, a lawyer's decision to utilize a new procedure like a class action is much more similar to the diffusion of fashion trends. Her decision to file a class action does not have to be a one-time event; it can be part of a series of decisions. Given the right factual circumstances, at any point of time she can decide whether to file another class action. This has important implications: first, there is no clear and external saturation point when all opportunities for filing a class action have been utilized. Second, when filing a class action for the second and third time, the decision is no longer influenced solely by others' decisions. The more class actions a lawyer files, the more she learns from her personal experience. As we will later discuss, the sequential nature of individual decisions to file permits a more fine-grained design for testing legal diffusion mechanisms.

Third, as economic diffusion models emphasize, previous adoption decisions can change the risks, costs, and benefits of subsequent adoptions. While this is in some degree relevant to the study of legal transplants between legal systems (e.g., through competition between states or countries; see Romano 2006; Goderis & Versteeg 2014), the dynamic effect intensifies when considering the dispersion of a legal innovation within a legal system. As Rampa and Saraceno (2016) have shown, each previous legal adoption has the power to change the legal surroundings and context—for example, by setting new precedents, or by streamlining procedural and evidentiary requirements for class action filings.

III. CLASS ACTIONS IN ISRAEL

A. Legal Background

Class action is a unique procedure, incentivizing individual plaintiffs and attorneys to identify suitable causes of action, and to pursue them in court on behalf of an entire class of plaintiffs. During the past few decades, class action procedures have spread from the U.S. legal system to countries worldwide (Hensler 2016). However, the Israeli class action procedure is distinctive in its close resemblance to U.S. FRCP Rule 23, and shares its

fundamental characteristics (Klement & Klonoff 2018).⁵ First, in order to pursue a class action, a representative plaintiff must motion the court to certify it as such, and certification is conditioned on various statutory requirements. Second, all plaintiffs who are members of the class defined in the certification decision are bound by its outcome, unless they actively opt out of the class action. Third, the possible remedies in a class action include monetary compensation, even if such compensation is not uniform among all class members. Fourth, the attorney fee is awarded by the court, contingent on winning the case or on settling it, and depends, inter alia, on the value of the remedy awarded.

Hence, Israeli class actions present a pertinent case study for investigating the dynamics that underlie the spread of legal innovation. They are driven by lawyers, who initiate them and make all litigation and settlement decisions. Moreover, class attorneys bear most of the costs and risk in class action litigation. They are awarded attorney fees by the court, which are usually set as a percentage of the common fund created in judgment or settlement, and they invest their time, the reservation value of which is a cost they fully bear. We thus expect a lawyer's decision to file a class action to take into consideration the risks, costs, and benefits from the suit. Furthermore, since class action certification requests and outcomes are required by law to be published in an online open register, we can assume that lawyers are well-informed about others' decisions to file class actions, as well as the outcomes in prior cases. The social networks and flow of information inducing diffusion of innovation is relatively active in class actions.

Unlike most jurisdictions outside the United States, Israel has had U.S.-style class actions for more than 25 years. Class action "chapters" have been incorporated into various substantive laws and thus each class action procedure was subject to substance-specific certification requirements.⁶ As it turned out, these requirements created significant barriers to class action certification (Klement 2004) and yielded a very low number of class action filings—an average of fewer than 12 class actions per year.⁷ In 2003, in *The State of Israel v. E.S.T. Management and Manpower Ltd.*,⁸ the Supreme Court called on the Knesset (the Israeli Parliament) to enact a comprehensive arrangement for class actions that would replace the fragmented existing statutory patchwork.

⁵In this respect, we should emphasize, though, that despite the apparent similarity between the Israeli and the U.S. class action procedures, the many differences in market size and structure, rules of procedure and discovery, and law firm characteristics seriously undermine the potential for Israeli law firms to rely on past experience in the United States (Klement & Klonoff 2018).

⁶For a description of these statutory class action procedures and a comparison with class action arrangements set in the CAL, see Klement and Weinshall-Margel (2016).

⁷We searched the three main Israeli legal databases ("Nevo," "Takdin," and "Dinim") for all class actions submitted from the enactment of the first law allowing class actions in 1988 (the Securities Law of 1988) to 2006, and found only 215 cases, mostly submitted during the 1990s. The maximum number of cases per year was 19. The search included scanning the archives by search words for "class actions" (using a morphological search engine), as well as a direct search for claims according to the sections permitting class actions filings in the different laws.

⁸LCA 3126/00 The State of Israel v. E.S.T. Mgmt. 57 PD 220 (2003) (Isr.), *affirmed*, FH 5161/03 E.S.T. Mgmt. v. The State of Israel 60 PD 196 (2006) (Isr.).

The Knesset responded to the Supreme Court's call by enacting the Class Action Law (CAL) in March 2006, which superseded all previous statutory arrangements. The new law maintained the substance-specific framework by designating the possible causes of action that may be brought as a class action. However, those causes of action were prescribed in a much broader manner, rendering certification easier, especially in consumer protection (including banking and insurance), in labor and anti-discrimination cases, and in restitution lawsuits filed against unlawful payments collected by state and public authorities. The new legislation also incorporated significant changes to the underlying procedural framework, mainly in prescribing elaborate arrangements for class settlement certification, in allowing the state-specific protection when being sued, and in stipulating in great detail the considerations that courts should take into account when awarding class attorney and representative plaintiff remuneration.

Thus, the enactment of the CAL was meant to implement significant changes in the practice of class actions in Israel. As we demonstrate below, the CAL has indeed generated an increasing flow of class action filings, which culminated with an unprecedented annual filing rate of more than 1,200 lawsuits file in 2012, only six years after enactment of the new law.

B. Data and Variables

We coded *all* motions to certify a class action ("cases," "suits," or "filings") submitted from December 2006, when the first suit was filed under the new law, through August 2012. The cases were drawn from computerized court records and were coded by law students who read all pertinent documents: pleadings, motions, hearing protocols, closing arguments, and court decisions. A second tier of encoders randomly sampled approximately 10 percent of these cases for accuracy and internal reliability. Coding was found to be consistent in over 95 percent of the variables coded. For each case, we coded more than 200 variables, including information on the class representatives and their attorneys, the defendants and their attorneys, causes of action and other characteristics of the motion to certify a class action, and the remedies requested. For cases resolved by August 2013, which comprised 68 percent of the suits, we also coded case outcomes.

During the six years we examined, 469 law firms filed a total of 2,057 class action suits. Most law firms operate as single-lawyer offices, or are very small firms where all lawyers are signed as co-representing attorneys.⁹ As an indicator of the firm's visibility and prominence, we used the well-known Israeli Dun's 100 directory, listing the most highly ranked Israeli law firms.¹⁰ Only nine plaintiff's law firms in our pool are listed in the directory; 279 law firms filed only a single case, 64 filed two cases, 30 filed three. On

⁹Fifty-seven percent of the suits were filed by a single-lawyer office; 10.3 percent by a two-lawyer law firm; and less than 7 percent were submitted by a law firm employing more than 10 lawyers.

¹⁰Rankings are undertaken in cooperation between economists of the Dun & Bradstreet Israel Group and editorial staff of the *Globes* financial newspaper. For the criteria and method of ranking, see http://duns100.globes.co.il/ en/. Note that we have rankings only for 2014, that is, for a moment in time when our time series had already started. We acknowledge the potential identification problem resulting from the possibility of reverse causality.

average, they filed 4.28 cases. This high average chiefly results from a small number of law firms filing multiple class actions. The three most active law firms filed 258, 140, and 48 lawsuits, respectively. Some law firms filed multiple class actions on the same day.

From these raw data, we construct a panel dataset. The panel runs from the day when the CAL entered into force until the last day at which we observe a new class action. This gives us a panel length of 2,058 days. In our linear estimations, our dependent variables are two dummy variables. The dummy variable for market entry is 1 at the day when a law firm files its first class action; 0 otherwise. The dummy variable for market participation is 1 for any new class action filed by the law firm.¹¹ For all days on which a firm has not filed a new class action, this dummy variable is 0. We also report survival models. In these models, the dependent variable is the (normalized) day when a law firm filed its first, or any, class action.

We explain market entry with indicators for social adoption and social outcomes, as defined in the theory section of this article. Our indicator for social adoption is the total number of class actions that have been filed until a certain point in time. Indicators for social outcomes are calculated the following way: for each case that has been closed (by a court ruling, settlement, or withdrawal) we know whether the attorney was awarded fees, and their amount. We also know whether the representative plaintiff has borne a positive cost, and its amount. Until the last case has been filed, 837 cases close. On average, law firms earn a fee of 11,449 ILS per case, but only in 8.64 percent of these cases was the law firm was awarded a positive amount, with a maximum of 7,794,000 ILS. We define a successful outcome as a case in which a representing attorney received any amount of fee. For each point in time we calculate the success rate by dividing the number of success is the mean fee made on all cases that have been closed up to this point in time.

We explain participation with the same indicators for social adoption and outcomes, and additionally with the individual success rate. This is the number of cases that have been closed up to this point in time and for which this law firm has earned an attorney fee divided by the number of all cases brought by this law firm that have been closed at this point in time.

C. Hypotheses

We test the following hypotheses:

 H_1 Market Entry: A law firm is more likely to file its first class action

- (a) the more class actions that have been filed by other law firms
- (b) the more the class actions filed by other law firms have been successful.

¹¹If the law firm files multiple class actions on the same day, for this day and law firm the dataset has multiple entries. The same holds if more than one case filed by one and the same law firm closes on the same day.

H2 Market Participation: A law firm is more likely to file a class action

- (a) the more class actions have been filed in the past
- (b) the more the class actions filed in the past have been successful
- (c) the more class actions filed by this law firm have been successful.

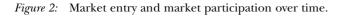
IV. RESULTS

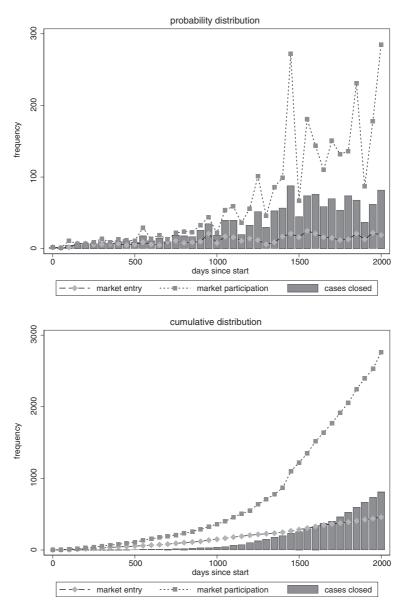
Figure 2 summarizes the data.¹² During our period of observation, the cumulative distributions of new cases ("market participation") and of first cases ("market entry") grow continuously (lower panel). While the cumulative distribution of market entry becomes approximately linear around day 1,000, the cumulative distribution of market participation grows approximately exponentially over the entire period of observation. This suggests that the diffusion of the new legal remedy has not yet reached the characteristic point when growth slows down. This is reflected by the probability distribution (upper panel). While the number of cases brought at each point in time grows rapidly, the number of first cases levels off in the second half of our period of observation. Note, however, that new firms continuously enter the market. It is only the rate of growth that becomes more or less constant. The upper panel also shows that in the first half of our period of observation, only very few cases close (at day 1,000 after the introduction of the remedy, 312 cases have been filed, but only 37 have been closed). Many more cases close afterward. This means that for the first 1,000 days, there is not much direct evidence on the profitability of class actions. The substantial period where there are very few outcomes but many case filings can help isolate the effect of filing versus outcome measures.

As Figure 3 shows, highly visible law firms are critical for the diffusion of the new remedy: the cumulative probability that a lawyer from one of the nine law firms in our pool that are listed in Dun's 100 directory files her first class action early on is much higher than for the remaining 460 law firms. The difference in the probability of early adoption is also highly significant.¹³ For several reasons, the listed, more prestigious firms are better suited to act as innovators and early adopters. Their relatively high resources permit them to take more risks as they are capable of enduring losses; they employ high-skilled lawyers capable of litigating new types of cases; they are better placed to seek a position as "exemplary users" of the new innovation (Compagni et al. 2015). As they enjoy visibility and opinion leading status, their adoption of the new remedy might further induce others to adopt it, whether they merely wish to mimic prominent law firms

¹²In the figure, we bin the data by 50-day windows. Fluctuations on individual days are so large that otherwise the figure would not be informative. All regressions work with individual observations.

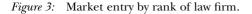
¹³We regress the decision to bring a first class action on the number of days since the introduction of the remedy, interacted with a dummy that is 1 if the law firm is listed in the ranking. In keeping with the regressions presented in the next section, we add law firm fixed effects. This is why, through demeaning, the main effect of being ranked drops out. However, the interaction effect is negative and significant at the 1 percent level. This additional regression is available from the authors upon request.

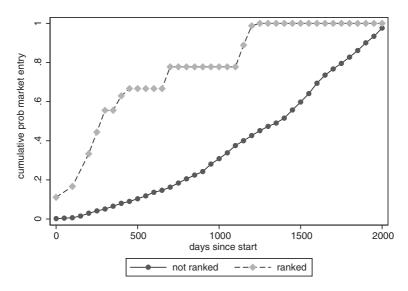




or because adoption by these firms is a more informative signal for the potential profitability of class action.

Figure 4 collects market performance indicators from which a firm might be influenced. The upper panel reports indicators that cover the complete past, from the first





NOTES: Ranked: nine law firms listed in Dun's top 100 Israeli law firms for 2014.

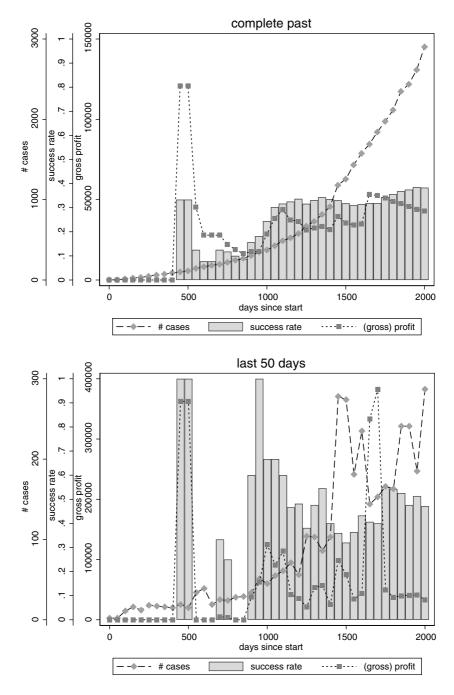
day when class action was legal up till the respective day. The number of all cases that have been brought grows exponentially during our entire period of observation. As more cases close around day 1,000, the success rate grows, and hovers around 30 percent: in about a third of all cases that close, the law firm earns a positive fee. As more cases close around day 1,000, this ratio drops to approximately 10 percent. The few cases that close around day 500 are very profitable. Law firms with a case closed between days 500 and 600 on average earn 46,128 ILS. Later profit drops, but rises again as more cases close after day 1,000. A law firm then on average earns 35,379 ILS per case.

Alternatively, law firms might be influenced by experiences from the recent past. This information is available in the lower panel of Figure 4. Obviously, recent experiences are more volatile. In some 50-day periods, all closed cases have been successful. In some periods, law firms have earned large fees.

To test our hypotheses, we turn to regression analysis. We first focus on entry decisions. By definition, individual experience with the class action procedure cannot explain them. We use three alternative specifications. Tables 1 and 2 report linear probability models. In these models, coefficients have a direct interpretation. They predict by how much the probability of a law firm filing its first class action changes if one of the experience indicators changes by one unit.¹⁴ A linear model assumes that the dependent

¹⁴We estimate models with law firm fixed effects since for the models explaining market participation, the Hausman test turns out significant. That way we use the same specification throughout. Standard errors take into account that choices per firm are not independent. We do not estimate a dynamic panel model since the number

Figure 4: Development of performance indicators over time.



	Model 1	Model 2	Model 3	Model 4
# Class action	0.0000014***	0.00000021***	0.00000008^{+}	0.00000005
suits	(0.0000026)	(0.0000003)	(0.00000004)	(0.00000005)
Market success			0.00097***	0.0016***
rate			(0.00026)	(0.00035)
Market mean fee				-0.00000000042*
				(0.0000000017)
Cons	0.00014***	0.00033***	0.00024***	0.00026***
	(0.000041)	(0.00003)	(0.000039)	(0.00004)
$N { m obs}$	469,000	965,202	965,202	965,202
N law firms	469	469	469	469

Table 1: Explaining Decision to Enter the Market with Experiences from Complete Past

NOTES: Linear probability models with law firm fixed effects; dv: a dummy that is 1 on the day that a law firm files its first class action suit; days 0–2,058 (last day when a new class action has been filed); # class action suits: total number of class actions suits that have been filed until the previous day; success rate: number of all class action cases closed until the previous day and yielding a positive profit; number of all class action cases closed until the previous day; standard errors (for choices in law firms) in parentheses; all effects also go through if we drop the top two or top five law firms from the sample; if we only consider single-lawyer law firms, in Model 4 we do not find a significant effect of market mean fee. ***p < 0.001; **p < 0.01; *p < 0.05; "p < 0.1.

	Model 1	Model 2	Model 3	Model 4
# Class action	0.000017***	0.0000028***	0.0000022***	0.0000021***
suits	(0.0000025)	(0.0000032)	(0.0000036)	(0.0000036)
Market success			0.00041***	0.00053***
rate			(0.00011)	(0.00013)
Market mean fee				-0.00000000079^{+}
				(0.00000000043)
Cons	0.000033	0.0003***	0.00024***	0.00024***
	(0.000048)	(0.000031)	(0.000035)	(0.000035)
$N {\rm obs}$	469,000	965,202	965,202	965,202
N law firms	469	469	469	469

Table 2: Explaining Decision to Enter the Market with Experiences from Last 50 Days

Notes: Linear probability models with law firm fixed effects; dv: a dummy that is 1 on the day that a law firm files its first class action suit; days 0–2,058 (last day when a new class action has been filed); # class action suits: total number of class actions suits that have been filed until the previous day during the last 50 days; success rate: number of all class action cases closed until the previous day and yielding a positive profit; number of all class action cases closed until the previous day, during the last 50 days; standard errors (for choices in law firms) in parentheses; all effects also go through if we drop the top two or top five law firms from the sample, or if we only consider single-lawyer law firms. ***p < 0.001; **p < 0.05; *p < 0.1.

variable could turn negative, which is impossible for probabilities.¹⁵ To be on the safe side, in Table 3 we therefore also report Cox proportional hazard models that take this element of our data-generating process into account. Note that Cox models predict

of observations per firm (2,058) is very large, and more than four times as large as the number of law firms (469). Therefore, the estimated coefficients are asymptotically consistent.

¹⁵We do not have censored observations, that is, law firms for which we do not observe whether they enter the market. This additional motive for specifying a survival model is therefore not present in our data.

	Model 1	Model 2	Model 3	Model 4
# Class action suits	-0.230***	-0.027***	-0.024***	-0.024***
	(0.021)	(0.001)	(0.001)	(0.001)
Market success rate			-3.963***	-3.978 * * *
			(0.434)	(0.438)
Market mean fee				0.00000019
				(0.0000081)
Nobs	144	468	468	468

Table 3: Explaining Decision to Enter the Market with Experiences from Last 50 Days

NOTES: Cox proportional hazard models; dv: day when a law firm files its first class action suit; one observation lost as (by design) failure is on first day of observation; days 0–2,058 (last day when a new class action has been filed); # class action suits: total number of class actions suits that have been filed until the previous day during the last 50 days; success rate: number of all class action cases closed until the previous day and yielding a positive profit; number of all class action cases closed until the previous day and yielding a positive profit; number of all class action cases closed until the previous day and yielding a positive profit; number of all class action cases closed until the previous day; standard errors (for choices in law firms) in parentheses; all effects also go through if we drop the top two or top five law firms from the sample, or if we only consider single-lawyer law firms. ***p < 0.001; **p < 0.01; **p < 0.05; *p < 0.1.

"survival," which in our context means that a law firm does *not yet* enter the market. Consequently, we expect all coefficients to have opposite sign.¹⁶

All regressions show that if we do not control for performance indicators, the mere information that other law firms are entering the market induces further law firms to follow suit (Models 2 in Tables 1–2, and 3). The effect is already present in the period until day 1,000, that is, while there is very little information on profitability (Models 1),¹⁷ but the effect becomes less pronounced if we control for the market success rate (Models 3), in particular when we explain market entry with experiences from the complete past (Table 1). As soon as it is available, meaningful social information becomes most important. The message is even clearer if we add both indicators to the specification (Models 4): conditional on the probability of earning a fee, the amount of the expected fee even has a negative effect. This is intuitive: law firms are more likely to discover that other law firms have had a success or a failure, rather than learning their exact fee. Since success rate and fee are positively correlated (Figure 4), conditional on the more important performance indicator, the effect of the less important one turns negative.¹⁸

¹⁶Further note that we cannot replicate the regressions of Table 1 with a Cox model. A Cox model filters out the overall time trend, and explains how the independent variables shift this process, which is separately estimated. Now the frequency that other law firms have entered the market in the past is almost perfectly collinear with the overall time trend, which is why the models converge, but we do not obtain standard errors.

¹⁷For two reasons, in all models coefficients are very small: by design, for each law firm, the dependent variable is 0 for all days but one. Consequently, the probability to enter the market on one given day is very small in the first place, and the marginal effect of independent variables on this probability is small as well. Moreover, the coefficient measures the effect of a one unit increase in the respective independent variable, and the independent variables of interest are themselves large. Attention should therefore be on significance, more than on the size of the coefficients.

¹⁸If we interact the success rate with the mean fee, the mean fee turns out insignificant. If we use all experiences, there is a weakly significant (p = 0.058) negative interaction effect. If we use experiences from the last 50 days, the negative interaction is significant at conventional levels. This suggests that law firms discount spectacular success of

We conclude:

Result 1: The decision to file a class action is explained by class action filings of other law firms and their success rate.

The picture becomes even clearer if we consider not only the decision by a law firm to file its first class action, but *any* decision to bring a class action, that is, if we shift attention from market entry to market participation. We again report three specifications: a linear model that explains the decision to file a class action with experiences from the complete past (Table 4) or from the last 50 days (Table 5), and the Cox proportional hazard model that corresponds to the latter model (Table 6).¹⁹ We find that, independent of specification, the number of cases that have been brought, their rate of success, and the success rate of cases brought by this one law firm independently and conditional on each other explain choices.²⁰ When we consider all experiences, the mean fee of all cases by all law firms that have been closed in the past again has a significant negative effect: law firms focus on success or failure, not on the amount to be gained.²¹

We conclude:

Result 2: The decision to file a class action is explained by

- (a) other law firms' filings
- (b) other law firms' success
- (c) the success of the law firm in question.

V. MECHANISM

Our findings suggest that legal innovations diffuse in a manner similar to the way novel products diffuse after they have first been introduced into the market. First movers, innovators, and early adopters that file class actions tend to be the more prestigious firms, who are better able to endure uncertainty and risk, employ high-skilled lawyers, and

their peers, and are more interested in the ordinary outcomes of cases. These additional regressions are available from the authors upon request. Note that we cannot replicate this test with the Cox models as they are nonlinear, so that interaction effects are not properly defined.

¹⁹We again do not have a Cox model explaining "survival" with all experiences as the number of cases brought in the past would be almost perfectly collinear with the time trend.

²⁰Conditional on the individual success rate, past individual profit does not significantly explain the choice to again participate in the market. Without this control variable, past profit is positive and significant. These additional regressions are available from the authors upon request.

²¹Again, results look similar if we replace experiences from the entire past with experiences from the last 50 days. Results also look similar, and all effects go through, if we drop the two law firms with more than 100 cases, or the five law firms with more than 40 cases, from the estimation. Hence in terms of their market participation choices, these law firms are not outliers. These additional regressions are available from the authors upon request.

	Model 1	Model 2	Model 3	Model 4
# Class action suits	0.0000015***	0.0000011***	0.0000010***	0.00000080***
	(0.00000005)	(0.00000008)	(0.0000008)	(0.00000085)
Market success rate		0.0032***	0.0050***	0.0049***
		(0.00048)	(0.00065)	(0.00065)
Market mean fee			-0.000000013***	-0.000000012***
			(0.000000032)	(0.000000032)
Individual success rate				0.0077***
				(0.00041)
Cons	0.00054 ***	0.00024***	0.00029***	0.00031***
	(0.000056)	(0.000072)	(0.000073)	(0.000073)
Nobs	965,202	965,202	965,202	965,202
N law firms	469	469	469	469

Table 4: Explaining Decision to Participate in the Market with Experiences fromComplete Past

NOTES: Linear probability models with law firm fixed effects; dv: a dummy that is 1 for any new class action suit filed by a law firm; all models cover days 0–2,058 (last day when a new class action has been filed); # class action suits: total number of class actions suits that have been filed up till a given day; market success rate: number of all class action cases closed until a given day and yielding a positive profit; number of all class action cases filed by this law firm and closed until a given day and yielding a positive profit; number of all class action cases filed by this law firm and closed until a given day; standard errors (for choices in law firms) in parentheses; all effects also go through if we drop the top two or top five law firms from the sample, or if we only consider single-lawyer law firms. ***p < 0.001; **p < 0.05.

enjoy opinion leadership status. Social information then plays a significant and independent role in the decisions to use the legal innovation, and its significance increases with the number of adoptions.

	Model 1	Model 2	Model 3	Model 4
# Class action suits	0.000018***	0.000015***	0.000015***	0.000013***
	(0.00000059)	(0.0000066)	(0.0000066)	(0.0000066)
Market success rate		0.0016***	0.0017^{***}	0.0014^{***}
		(0.0002)	(0.00024)	(0.00024)
Market mean fee			-0.0000000052	0.000000000062
			(0.0000000008)	(0.0000000008)
Individual success rate				0.039***
				(0.00064)
Cons	0.0005***	0.00028***	0.00028***	0.00031***
	(0.000058)	(0.00006)	(0.00006)	(0.000064)
Nobs	965,202	965,202	965,202	965,202
N law firms	469	469	469	469

Table 5: Explaining Decision to Participate in the Market with Experiences from Last50 Days

Notes: Linear probability models with law firm fixed effects; dv: a dummy that is 1 on the day that a law firm files its first class action suit; days 0–2,058 (last day when a new class action has been filed); # class action suits: total number of class actions suits that have been filed until the previous day during the last 50 days; success rate: number of all class action cases closed until the previous day and yielding a positive profit; number of all class action cases closed until the previous day, during the last 50 days; states action cases closed until the previous day, during the last 50 days; states rate; all effects also go through if we drop the top two or top five law firms from the sample; if we only consider single-lawyer law firms, the effect of the market mean fee turns negative and significant. ***p < 0.001; **p < 0.05; *p < 0.1.

	Model 1	Model 2	Model 3	Model 4
# Class action suits	-0.022***	-0.021***	-0.021***	-0.021***
	(0.001)	(0.001)	(0.001)	(0.001)
Market success rate		-5.155***	-5.161***	-5.096***
		(0.327)	(0.325)	(0.328)
Market mean fee			0.000	0.000
			(0.000)	(0.000)
Individual success rate				-0.321**
				(0.114)
$N \mathrm{obs}$	1,630	1,630	1,630	1,630
N law firms	468	468	468	468

Table 6: Explaining Decision to Participate in the Market with Experiences from Last50 Days

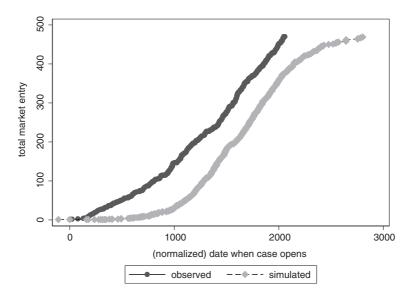
NOTES: Cox proportional hazard model; dv: day when a law firm files a class action suit; one observation lost as (by design) failure is on first day of observation; days 0–2,058 (last day when a new class action has been filed); # class action suits: total number of class actions suits that have been filed until the previous day during the last 50 days; success rate: number of all class action cases closed until the previous day and yielding a positive profit; number of all class action cases closed until the previous day and yielding a positive profit; number of all class action cases closed until the previous days; standard errors (clustered for law firms) in parentheses; all effects also go through if we drop the top two or top five law firms from the sample; if we only consider single-lawyer law firms, the effect of the market mean fee turns positive and significant. ***p < 0.001; **p < 0.05; *p < 0.1.

In principle, this pattern could be explained both on social and on individualistic grounds. The mechanism behind the observed diffusion patterns can be one of social herding, which is motivated by lawyers' tendency to imitate and conform with others. Alternatively, lawyers can interpret other lawyers' filings as an informative signal about the profitability of class actions. We do find, however, that the decisions to enter this market, and to be active in it, are not only explained by the number of class actions filed by other law firms. Conditional on this effect, market participation is also explained by the observable profitability of class actions, and by the respective law firm's own success rate in this line of business. The latter effects transcend imitation and support rational profit maximization. Although we may conjecture that the intricacies of the class action procedure produce significant costs to new entrants, and that passing the class certification stage necessitates learning, we do not have data about the decision-making process of individual law firms.

We do show, however, that market entry decisions are predicted by the market entry of other law firms, and that this effect is already present when only very few cases have been closed. This suggests that law firms do not define the learning object narrowly. They do not seem to wait for a proper "balance sheet," nor do they seem to follow successful litigation strategies of their competitors. Our data rather suggest that they take the market participation of other law firms as a broad signal for the profitability of this new line of business.

In the diffusion literature, a caveat is often raised: what looks like a pattern of reactions to the choices of others could just result from autonomous reactions of actors to a shared environment (Volden et al. 2008; Glick 2013). With our data, we can exclude that this is the exclusive or the dominant explanation. Autonomous decisions might, at most, generate an adoption pattern akin to the effect of imitation. Yet in our regressions we

Figure 5: Observed market entry versus simulation exclusively based on autonomous adoption decisions.



find a significant effect of the market success rate *conditional* on the market adoption rate. This independent effect cannot follow from autonomous choices.

Figure 5 uses another strategy to exclude this alternative explanation. If autonomous decisions were critical, the adoption pattern would look like the one in Figure 1. Following the central limit theorem, the individual propensity to use the new procedure would be a random draw from a normal distribution. The cumulative distribution of market entry would then look like the lower line in Figure 5. This line results from 1,000 simulation runs with the otherwise same parameters as in our dataset, but assuming that entry choices are normally distributed.²² The upper line is from the actual data. It shows that we observe much more, and much faster, market entry than predicted by autonomous choices. The difference between the two patterns is highly significant.²³

VI. CONCLUSION

One might have thought that law firms who venture their own money behave in ways that are not too different from the agents of economic textbooks. This is not, however, how Israeli law firms have reacted to the introduction of the class action procedure.

²²The code on which the simulation is based is available from the authors upon request.

 $^{^{23}}$ In 1,000 simulation runs, the coefficient of simulated, as compared to observed data in a regression explaining choices with the data being simulated, and comparison fixed effects, is on average –32.361, *sd* 1.168, range [-35.781, -28.010].

Since class action lawyers act on a contingent fee basis, risks and opportunities are chiefly their own. Profit maximizing lawyers would have independently assessed the profitability of this newly opened line of business, and would have brought cases if expected benefits outweighed expected costs. Yet for more than two years, the new remedy was rarely used. Only 1,000 days after its introduction did its use become more frequent, culminating in an approximately exponential pattern of adoption.

We have focused on class actions since this is an area of law where lawyers initiate litigation, and if they deem a case promising, search for a plaintiff to represent. Other types of legal innovations often involve decisions made by the general public and not by legal professionals; they mostly concern substantive as opposed to procedural law; and their utilization, or in the parlance of the innovation diffusion literature, their "adoption," as well as their outcomes, are not necessarily observed by the general public. For all these reasons, future research is needed to test whether our findings can be generalized to the adoption of other legal innovations.

This inevitable note of caution notwithstanding, our result suggests that policymakers should be wary of (too simple) economic models of legal intervention. Even if a perceived policy problem is convincingly defined by a gap between individual incentives and socially desirable outcomes, just changing the incentives may be insufficient to address the problem. Policymakers should have an eye to the potentially protracted process necessary for inducing addressees to adapt to the new opportunity or constraint.

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