Shareholder Collaboration

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Shareholder Collaboration

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Abstract

Two models of the firm dominate corporate law. Under the management-power model, decision-making power rests primarily with corporate insiders (officers and directors). The competing shareholder-power model defends increased shareholder power to limit managerial authority. Both models view insiders and shareholders as engaged in a competitive struggle for corporate power in which corporate law functions to promote operational efficiency while limiting managerial agency costs.

As scholars and judges continue to debate the appropriate balance of power between shareholders and insiders, corporate practice has moved on. Increasingly, the insider-shareholder dynamic is collaborative, not competitive. This Article traces the development of insider-shareholder collaboration, explaining how collaboration, which originated in the venture capital context, has expanded into public companies. This expansion, the Article argues, is due to the increasing importance of partial information problems that, for many firms, have grown costlier than agency costs. Using insights from the economics of information, the Article shows how collaboration promotes the production and aggregation of information from insiders and shareholders, adding value that is lost under unilateral decision-making.

Modern corporate law and corporate governance are poorly prepared to handle insider-shareholder collaboration, however. The collaborative process places novel demands on traditional obligations of confidentiality and fiduciary duty as well as complicating the meaning of conflicts of interest. These concepts must be rethought to enable productive collaboration while limiting the potential that the collaborative process can be manipulated to permit collusive behavior or self-dealing.

INTRODUCTION .......................................................................................................................... 2

I. CONFRONTATIONAL THEORIES OF THE FIRMS ................................................................. 5
   A. The Management-Power Model ...................................................................................... 5
   B. The Shareholder-Power Model ...................................................................................... 7
   C. The “Battle” between Insiders and Shareholders ........................................................ 8

II. FROM CONFRONTATION TO COLLABORATION ............................................................... 9
   A. Venture Capital and the Emergence of Collaboration .................................................. 9
   B. The Extension of Collaboration to the Public Corporation ........................................ 12
      1. Partial Information Problem and the Public Corporation ........................................ 12
      2. Empowered and Informed Investors ........................................................................ 14
      3. Independent Directors and Information Access ...................................................... 15

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INTRODUCTION

Since the groundbreaking work of Ronald Coase in 1937, law and economics scholars have debated theories of the firm and their application to corporate law.\(^1\) Two models have come to dominate: the management-power model and the shareholder-power model. The management-power model, consistent with Coase’s account of the firm as a hierarchical organization,\(^2\) emphasizes the board’s decision-making authority.\(^3\) The competing shareholder-power model de-emphasizes management authority in favor of accountability and defends greater shareholder power to ensure that corporate insiders—both directors and managers—are held fully accountable.\(^4\)

\(^2\) See id., at 390-92.
Proponents of both models agree on two things, however. First, they regard managerial moral hazard as the central problem of corporate law. Second, both assume that insiders and shareholders are engaged in a competitive struggle for corporate power. Under this shared assumption, corporate law entails a narrative of recurring battles with winners and losers.

Meanwhile, the corporate world has moved on. Shareholders are no longer dispersed and passive but empowered, yet they are using their greater power not to wrest control but to work jointly with insiders, bringing new information and insights to operational decision-making. In other words, increasingly, the insider-shareholder dynamic in the modern corporation is collaborative.

Shareholder-insider collaboration is occurring in multiple ways—through private engagement between large shareholders and corporate executives and directors, through joint initiatives aimed at developing and promoting the spread of shared governance principles, through “constructivist” activist interventions oriented to the creation of long-term value, and through the increasing use of hybrid boards of directors to formalize shareholder inputs over operational decision-making. Although we do not claim that collaboration has displaced hostile activism, we document how the trend toward board-shareholder collaboration is spreading rapidly and systemically.

What explains the growth of collaboration? Using insights from epistemic models of collective wisdom and the economics of information, this Article demonstrates that collaboration promotes the production and aggregation of the “partial” and “complementary” information that insider and shareholders are likely to possess in today’s knowledge-rich economy. Because of this distinctive property, collaboration offers a mechanism for enhancing firm value that unilateral decision-making by either insiders or shareholders cannot provide. The Article also explains how this mechanism can be traced back to the venture capital (VC) context, in which founders and investors

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5 See, e.g., Margaret M. Blair & Lynn A. Stout, A Team Production Theory of Corporate Law, 85 VA. L. REV. 247, 248–49 (1999) (arguing that the dominant view in contemporary discussions of corporate governance is that the “central economic problem addressed by corporation law is reducing ‘agency costs’ by keeping directors and managers faithful to shareholders’ interests”); Jesse Fried, The Uneasy Case for Favoring Long-Term Shareholders, 124 YALE L.J. 1554, 1624 (2015) (“[S]hareholders' ability to minimize managerial agency costs is one of the most important challenges in the corporate governance of widely held firms”). Berle and Means first observed that the separation of ownership from control in the public corporation had the potential to generate managerial opportunism and reduce firm value. ADOLF A. BERLE, JR. & GARDINER C. MEANS, THE MODERN CORPORATION AND PRIVATE PROPERTY 84-89, (reprint ed. 1982). Jensen and Meckling later formalized the intuition, identifying managerial moral hazard as the primary agency cost arising from the information asymmetry between insiders and shareholders. Michael C. Jensen & William H. Meckling, Theory of the Firm: Managerial Behavior, Agency Costs and Ownership Structure, 3 J. FIN. ECON. 305, 308 (1976).

6 We distinguish collaboration from communication in that it involves shareholders and insiders working together rather than simply exchanging information. See Rosabeth Moss Kanter, Collaborative Advantage: The Art of Alliances, HARV. BUS. REV. 3 (July-Aug. 1994). See also Debra Mashek, Collaboration: It’s Not What You Think, PSYCHOLOGY TODAY, Feb. 22, 2016, at 2 (distinguishing collaboration from networking, coordinating and cooperating).

7 One article suggests that the relationship between activists and targeted companies is moving toward a “new, collaborative (or at least less adversarial) conception,” but the analysis is largely limited to the hedge fund context and to the implication for golden leash practices. Gregory H. Shill, The Golden Leash and the Fiduciary Duty of Loyalty, 64 UCLA L. REV. 1246, 1256-59, 1261-64 (2017). In contrast, this Article examines the potential for a broader-scope collaborative model of the insider-shareholder relationship.
have long developed structures that promote shared power and joint decision-making—collaborating with rather than competing against each other. Indeed, in the VC context, which emphasizes innovation and rapid growth, the traditional corporate law concern of minimizing agency costs is secondary to what we call “partial information” problems. These problems arise when the nature of the production process is so knowledge-intensive that a single individual or groups of individuals—including the firm’s founders, officers and directors—is unlikely to possess the relevant information to respond effectively to all business challenges. Instead, both insiders and outsiders—such as venture capital funds—likely possess information that is not available to the other party but is vital to the firm success. VC firms access these different sets of information through collaborative decision-making structures.

Two factors explain the spread of collaboration to the publicly-traded firm. First, the information-dependency of the public firm business model has increased as new technology firms enter the public markets and older firms modernize their business plans. Second, the rise of empowered and actively-informed investors offers a new source of well-resourced and sophisticated firm-specific knowledge from outside the corporation. Growing market concentration has led to the emergence of institutional investors with large stakes and both the incentive and sophistication to acquire valuable information. These investors have increasingly come to resemble VC investors in that they are likely to possess information that is not just different but also “complementary” to that of insiders. This means that the informational whole of insider and outsider information is arguably greater than the sum of its individual parts, so that the aggregation of this information adds to firm value. It follows that public firms have begun to incorporate both the inside information of insiders and the outside knowledge of investors – similar to what happens in the VC context.

Despite these dramatic transformations, corporate law scholars have paid virtually no attention to insider-shareholder collaboration. This Article attempts to remedy the gap. As a descriptive matter, it offers the first taxonomy of the various forms of collaboration that we increasingly observe in corporate practice. It then draws on the theory of cooperative games to demonstrate how the corporate structure provides appropriate incentives for the generation and aggregation of partial and complementary information. First, the equity contract efficiently addresses collaboration’s economic rights by ensuring that the surplus created by collaboration is shared by both collaborating and non-collaborating investors, as well as equity-compensated managers. Second, the corporate structure efficiently allows parties to design control rights so to reflect a party’s marginal contribution to the surplus created by collaboration, preserving the incentives to invest optimally in the production of complementary information and the collaborative process more generally.

Corporate law rules are poorly prepared to handle insider-shareholder collaboration, however. These rules typically limit shareholders to communicating information to insiders rather than collaborating. Although board representation offers public-company shareholders a vehicle to

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8 Asymmetric information no longer is only “unilateral,” with outsiders necessarily standing at an informational disadvantage relative to insiders, but is increasingly “bilateral,” with both insiders and outsiders holding private information not available to the other party. See Frederik Andersson, Adverse Selection and Bilateral Asymmetric Information, 74 J. ECON. 173, 173 (2001) (examining bilateral asymmetric information in the insurance context). For clarity, this Article uses the term “partial information” in the place of “bilateral asymmetric information.”
collaborate, shareholder representatives face questions about the scope of their fiduciary duties and the potential for conflicts of interest. Effective collaboration may also result in greater shareholder access to firm-specific information, but with that access comes concerns over the misuse of that information, either to obtain a trading advantage or for other forms of self-dealing. Finally, collaboration creates the possibility of collusion in which shareholders and insiders act opportunistically to further their own interests at the expense of firm value. Although a complete analysis of these concerns is beyond the scope of this Article, we argue that the way in which they are treated under current corporate law rules should be rethought if the goal is enabling productive collaboration while limiting the potential for abuse.

The Article proceeds as follows. Part I summarizes the traditional confrontational model of corporate law. Part II describes the shift from confrontation to collaboration and explains how collaboration has migrated from the venture capital context to the publicly-traded company, providing a first taxonomy of the several forms of insider-shareholder collaboration. Part III defends the normative desirability of the collaborative model, explaining how collaboration responds to a growing partial information problem and using insights from game theory to demonstrate how the corporate form can preserve the individual incentives of insiders and shareholders to collaborate. Part IV identifies how the collaborative model presents new challenges for corporate law.

I. CONFRONTATIONAL THEORIES OF THE FIRMS

Traditional “confrontational” models of the corporation assume that the essential task of corporate law is devising the appropriate allocation of power between insiders and shareholder to minimize the cost of managerial moral hazard. Although commentators differ in their views as to the appropriate allocation of such power – with some supporting managerial primacy and others favoring empowered shareholders – the dominant narrative in either case is that insiders and shareholders are engaged in a competitive struggle for corporate power.

A. The Management-Power Model

The traditional management-power model, reflected in the writings of Martin Lipton,9 Stephen Bainbridge10 and the Delaware courts,11 relies on the board of directors to centralize corporate decision-making authority and to address the problem of managerial moral hazard. The model “free[s] up managers to manage.”12 Shareholders, in this model, specialize in risk-bearing but are

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10 See, e.g., Bainbridge, supra note 3, at 560 (describing board’s exclusive authority as the board’s “undisturbed power of fiat”).
11 See, e.g., Jack B. Jacobs, “Patient Capital”: Can Delaware Corporate Law Help Revive It?, 68 WASH. & LEE L. REV. 1645, 1657-61 (2011) (attributing national economic decline to, among other causes, the erosion of board power); Leo E. Strine, Jr., Toward a True Corporate Republic: A Traditionalist Response to Bebchuk's Solution for Improving Corporate America, 119 Harv. L. Rev. 1759, 1763 (2006) (explaining that the traditionalist Delaware way is “the empowerment of centralized management to make and pursue risky business decisions through diverse means”).
12 Strine, supra note 11, at 1761.
not involved in operational issues.\footnote{See Fama & Jensen, supra note 3, at 308.} The key arguments for granting ultimate authority to the board include shareholder collective action problems and asymmetric information, but also concerns about shareholder short-termism, self-dealing and conflicts of interest.\footnote{Strine, supra note 11; Lipton, supra note 9.}

This account of the corporation finds its roots in the managerialist era that began at the end of World War II and ended around 1980.\footnote{See, e.g., Gerald F. Davis, MANAGED BY THE MARKETS 72-77 (2009) (describing managerial dominance during this period); Alfred Dupont Chandler, \textit{The Visible Hand: The Managerial Revolution in American Business} (1977) (describing the managerial revolution).} The managers that oversaw the growth of the modern industrial corporation were brought in to “hire capital from the investor”\footnote{Bayless Manning, Book Review, 67 \textit{Yale L.J.} 1477, 1489 (1958).} and enjoyed a nonreviewable power of fiat.\footnote{See ADOLPH A. BERLE, \textit{The American Economic Republic} 169 (1963).} Shareholders, on the other hand, were dispersed and passive, with few mechanisms to overcome collective action problems, and hence dismissed as mere capital providers.\footnote{See Adolf Berle, \textit{Property, Production and Revolution: A Preface to the Revised Edition}, in ADOLPH A. BERLE, JR. \& GARDINER C. MEANS, \textit{THE MODERN CORPORATION AND PRIVATE PROPERTY} xxvii, xxxiii (rev’d ed. 1967).} Even back then, as attested by Berle and Means’ classic treatise,\footnote{Id.} management power was seen as problematic, but under the Coasian assumption that the market could not provide an environment conducive to complex production,\footnote{See Coase, supra note 1, at 392.} it was deemed unavoidable.

Since the early 1980s, however, a variety of developments have limited the scope of management power. The hostile takeover offered, for the first time, a vehicle through which capital market discipline could be used to constrain managerial agency costs by demonstrating the power and transformative potential of shareholders’ stock market purchasing power.\footnote{William W. Bratton, Jr., \textit{The New Economic Theory of the Firm: Critical Perspectives from History}, 41 \textit{Stan. L. Rev.} 1471, 1520-21 (1989).} And after the demise of takeovers, the rise of institutional investors and governance watchdogs intervened to provide a novel form of market discipline.\footnote{David I. Walker, \textit{The Manager’s Share}, 47 \textit{Wm. \\& Mary L. Rev.} 587, 592-93 (2005).} The introduction of incentive compensation also increased the alignment between managers’ interests and maximization of firm value.\footnote{See, e.g., Marcel Kahan & Edward B. Rock, \textit{How I Learned to Stop Worrying and Love the Pill: Adaptive Responses to Takeover Law}, 69 \textit{U. Chi. L. Rev.} 871, 883-84, 896-97, (2002) (describing both the rise of incentive compensation and independent directors as adaptive responses to the managerial-friendly takeover standards set by Delaware courts).} And the emergence of independent directors led to greater monitoring of managers.\footnote{Jeffrey N. Gordon, \textit{The Rise of Independent Directors in the United States, 1950–2005: Of Shareholder Value and Stock Market Prices}, 59 \textit{Stan. L. Rev.} 1465 (2007) (defending the increased use of independent directors as a value-increasing innovation of the post-takeover era); see also Jill E. Fisch, \textit{Taking Boards Seriously}, 19 \textit{Cardozo L. Rev.} 265 (1997) (describing the rise of the monitoring board).}

For management-power supporters, these developments heighten arguments to defend the model by providing incentives for managers to focus on the maximization of firm value and hold them accountable for doing so. These scholars also see these developments as strengthening the case for protecting management and the board from the potential interference of less-informed
(and arguably less well-motivated) investors. Not so for the defendants of the competing shareholder-power model, as we shall see next.

B. The Shareholder-Power Model

The rise of the shareholder-power model can be traced back to the emergence of hostile takeovers. Indeed, takeovers led to a new way of thinking about the corporation, one largely shaped by the rise of the neoclassical theory of the firm. Rejecting centralized decision-making as a distinctive trait of totalitarianism, neoclassicists viewed the firm as a web of contractual relationships among individuals, whose ongoing transactions were efficiently coordinated by the price mechanism. The introduction by Jensen and Meckling of the principal-agent model of the firm formalized and directed the change of approach. Easterbrook and Fischel’s contractarianism refined the model for corporate law, using it to support a sequence of normative assertions that revolved around a view of shareholders as the primary corporate constituents.

The shareholders’ claim to primacy was put to test in the wake of the fall of the hostile takeover and the introduction of legal and governance responses empowering incumbent managers to resist hostile takeovers. These reforms prompted commentators fiercely to debate whether management use of anti-takeover measures was appropriate or whether management should instead remain passive and allow shareholders the freedom to decide whether to accept a hostile bid. The scene was set for the battle between shareholders and managers over corporate control.

That battle intensified in the early 2000s, when the case for shareholder primacy expanded beyond the control contest. Lucian Bebchuk was perhaps the most vocal commentator to argue that shareholders should be given greater power, including powers that were currently reserved to corporate insiders. In recent years, steady increases in shareholder concentration and activism have led to greater shareholder control over corporate decision-making and increased issuer responsiveness to shareholder demands. As put by one commentator, for the first time since the

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25 See, e.g., Leo E. Strine Jr., Can We Do Better by Ordinary Investors? A Pragmatic Reaction to the Dueling Ideological Mythologists of Corporate Law, 114 Colum. L. Rev. 449, 455 (2014) (describing the view of some commentators that “the best way to ensure that corporations generate wealth for diversified stockholders is to give the managers of corporations a strong hand to take risks and implement business strategies without constant disruption by shifting stock market sentiment.”).


28 Jensen & Meckling, supra note 5.


31 See, e.g., Ronald J. Gilson, The Case Against Shark Repellent Amendments: Structural Limitations on the Enabling Concept, 34 Stan. L. Rev. 775 (1982) (criticizing the use of anti-takeover defenses); Lipton, supra note 9, at 130-31 (defending the use of anti-takeover defenses to protect board primacy).

32 See sources cited supra at note 4.
beginning of the battle between shareholders and insiders over corporate power, the battle has come to favor shareholders rather than directors and managers.\textsuperscript{33}

C. The “Battle” between Insiders and Shareholders

Both the management-power model and the shareholder-power model assume that insiders and shareholders are engaged in a competitive struggle for corporate power. The language of combat goes back to the “takeover battles” of the 1970s which featured “corporate raiders,” “white knights,” “scorched earth takeover defenses,” “poison pills” and “greenmail.”\textsuperscript{34} Although the conflicts between shareholders and insiders today rarely involve hostile contests for corporate control, the struggle for corporate power has, if possibly, intensified. Hostile activists have taken the place of corporate raiders, and the ongoing engagement between activists and issuers continues to be described as a power struggle.\textsuperscript{35}

The language of combat persists. A recent white paper directed at corporate boards, for example, termed majority voting “the next battleground in the corporate governance wars between the activist institutional shareholder community and ‘Corporate America.’”\textsuperscript{36} Similarly, Fortune magazine described Trian’s recent activist campaign at DuPont as “War.”\textsuperscript{37} A letter sent to American CEOs by Blackrock’s Larry Fink in 2014 expressed concerns that activists are out to “destroy jobs.”\textsuperscript{38} And Delaware Supreme Court Chief Justice Leo Strine’s recent essay describes activist hedge fund “wolf packs” and asked “Who Bleeds when the Wolves Bite?”\textsuperscript{39}

The confrontational approach is likewise reflected in the characterization of the objectives of each model. Adherents to the management-power model defend it in terms of the need to protect the corporation from the short-term interests of activist shareholders.\textsuperscript{40} And shareholder advocates persevere in their call to increase shareholder power to reduce managerial agency costs.\textsuperscript{41} In other words, both sides view the preservation of power as necessary to curb the tendencies of the opposition to destroy or appropriate firm value.

\textsuperscript{33} Michael Klausner, \textit{Fact and Fiction in Corporate Law and Governance}, 65 STAN. L. REV. 1325, 1329 (2013) (“In recent years, however, the balance of power seems to have shifted toward shareholders. After a thirty-year delay, and key changes in the background law, governance structures that shareholders advocate have been adopted.”).

\textsuperscript{34} See, e.g., Gilson, supra note 31, at 781.


\textsuperscript{40} See, e.g., Lucian A. Bebchuk et al., \textit{The Long-Term Effects of Hedge Fund Activism}, 115 COLUM. L. REV. 1085, 1093-96 (2015) (providing an overview of the scholarly positions defending what they refer to as the “myopic-activists claim”).

\textsuperscript{41} See Lucian A. Bebchuk, \textit{The Myth That Insulating Boards Serves Long-Term Value}, 113 COLUM. L. REV. 1637, 1643 (2013) (rejecting the claim that shareholder activism promotes short-termism).
It is a mistake to conclude, however, that a confrontational model is an inherent feature of corporate law. Black letter corporate law—whether statutory or case law—merely provides a starting point for managing the insider-shareholder relationship. Corporations respond to economic and legal developments through private ordering, adopting contractually-based adjustments to statutory default terms and changing external circumstances. This adjustment process has accommodated collaborative, in addition to confrontational, interactions between shareholders and corporate insiders, most notably in the venture-capital context. Most importantly, as we will show below, the changes that have occurred in corporate production and the role of shareholders have prompted the adoption of similar collaborative structures in an increasing number of public corporations in recent years, denuding confrontational models of their descriptive value.

II. FROM CONFRONTATION TO COLLABORATION

A. Venture Capital and the Emergence of Collaboration

Consistent with adversarial theories of the corporation, confrontational corporate governance arrangements provide for unilateral power, by either the board or the shareholders. In the managerialist era, for example, corporations reflected unilateral managerial power. At the opposite extreme, we find the hostile activist context, in which hedge funds, as empowered shareholders, can often shape a firm’s business policy unilaterally. A confrontational allocation of corporate power is not the sole possibility, however. Corporate law structures insider and shareholder inputs, but it does not dictate the details of this process; those details are left to private ordering. And under private ordering, collaboration is an alternative to confrontation.

Venture capital (VC) firms provide the paradigmatic example of the collaborative alternative. VC founders and investors routinely bargain for structures that provide for shared power and joint decision-making rather than unilateral decision-making authority by either insiders or investors. We argue that these collaborative structures respond to a distinctive feature of VC firms: the fact

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42 Private ordering occupies the space of contractual freedom that is available under default rules and encompasses both contracting within the corporation and discrete market contracting. See Frank H. Easterbrook & Daniel R. Fischel, The Corporate Contract, 89 COLUM. L. REV. 1416, 1426 (1989).

43 Additional, although less salient, evidence of collaborative practices comes from incentive-based management compensation and independent directors. See Kahan & Rock, supra note 23, at 884, 896-97 (describing increased use of incentive compensation in response to takeover barriers); Gordon, supra note 24 at 1471 (observing that independent directors can channel shareholder inputs but can also credibly “check” these inputs against insider measures of firm prospects).

that they are typically invested in innovation and high growth. As Ron Gilson has explained, various features of VC-funded start-up firms make them particularly conducive to innovation. And innovative businesses are heavily dependent on information – both information about the firm’s business model, invention or technology as well as information about the relationship of the firm’s innovation to the existing industry. In such cases, both entrepreneurs and investors suffer from “partial information” problems; each is likely to possess valuable private information for matching firm-specific innovation to the surrounding business environment, but only when that information is combined, can it be fully exploited to foster a firm’s success.

VC firms address this problem through collaborative decision-making structures that create incentives for all participants to develop and aggregate their partial information. Staged financing, the explicit provisions of joint control rights, and the appointment of constituency directors all offer examples of these collaborative structures.

Staged financing provides for the incremental investment of capital over time, typically conditional on how a start-up progresses in relation to its initial projection. Two collaborative features are inherent in this mechanism. First, staged financing necessarily presupposes an ongoing relationship between the investors and the entrepreneur, one that involves regular rather than sporadic communications, as well as periodic consultation. Indeed, only through frequent interactive exchanges with the entrepreneur can VC investors acquire the information needed to employ stage financing successfully as a means to minimize their investment risk. Second, staged financing implicitly provides for shared decision-making power between the investors and the entrepreneur. It does so by ensuring that decision-making power rests with the entrepreneur until it becomes optimal for this power to shift to the investors, enabling them to reclaim further authority through their control of subsequent funding.

\[\text{See, e.g., }\] Gilson, supra note 44 at 1068 (“The venture capital market thus provides a unique link between finance and innovation, providing start-up and early stage firms - organizational forms particularly well-suited to innovation - with capital market access that is tailored to the special task of financing these high-risk, high-return activities.”)

\[\text{See Ronald Gilson, Locating Innovation: The Endogeneity of Technology, Organizational Structure, and Financial Contracting, 110 Colum. L. Rev. 885 (2010) (arguing that VC-funded firms are well suited for dealing with high levels of risk); see also Elizabeth Pollman & Jordan M. Barry, Regulatory Entrepreneurship, 90 S. CAL. L. REV. 383, 392 (2017) (observing that the success of many innovative firms involves regulatory entrepreneurship, which they define as pursuing a line of business that depends on changing the applicable law).}\]


\[\text{In the jargon of economists, stage financing presupposes a relational contract, that is, an agreement characterized by continuing interactive exchanges between the contracting parties. See, generally, Jonathan Levin, Relational Incentive Contracts, 93 AM. ECON. REV. 835 (2003).}\]


\[\text{See D. Gordon Smith, The Exit Structure of Venture Capital, 53 UCLA L. Rev. 315, 330-31 (2005). Typically, control stays in the hands of the entrepreneur when the firm is a “good” state of nature and transferring control to the VC investor in a “bad” state of nature. Importantly, as compared to the unilateral allocation of control power to either the entrepreneur or the investor, this allocation of power avoids that the entrepreneur may seek to continue a business when exit is optimal, while also avoiding that an investor may too quickly move to abandon a business. See id.}\]
VC contracts also typically provide for joint decision-making rights rather than vesting operational decision-making exclusively in the hands of either insiders or investors. For example, VC contracts frequently allocate control and monitoring rights to VC investors that are disproportionate to their equity share. VC investors also usually enjoy veto powers over fundamental corporate decisions, so that crucial actions in the development of a start-up business require the consensus of both the entrepreneur and the investors.

VC contracts also routinely feature the appointment of constituency directors. Constituency directors are directors whose election to the board is traceable to an identified corporate constituency. In the VC context, constituency directors typically represent the VC investors. Although the fiduciary duty implications of constituency directors are debated in the literature, their appointment is designed to facilitate joint-decision making by allowing investors to engage in a deliberative process with the entrepreneur.

Although scholars have attempted to shoehorn these arrangements into the traditional confrontational paradigm, many features of VC contracting are inconsistent with the traditional agency cost model. As observed by Gordon Smith, the relationship between the VC investors and the entrepreneur involves “a more complex interaction characterized by give-and-take on both sides.” In a pure agency relationship, the principal’s only obligation is providing pecuniary compensation for the agent’s services. Venture capitalists tend to provide more than that. They provide a whole series of “value-added” services, such as “identifying and evaluating business opportunities, including management, entry, or growth strategies; negotiating and closing the investment; tracking and coaching the company; providing technical and management assistance; and attracting additional capital, directors, management, suppliers, and other key stakeholders and resources.” Because of these added services, the success of a start-up is as likely to depend on the business expertise of sophisticated VC investors as on the entrepreneur’s human capital.

51 See, e.g., Bartlett, supra note 47 at 53-54 (“A VC investor . . . [will] negotiate[e] control and monitoring rights that are disproportionate to its stock ownership.”).
52 Id. at 54 (“A VC investor will commonly have veto rights over the issuance of securities, asset sales, mergers, or other important corporate transactions”).
54 See Fried & Ganor, supra note 53, at 988 (observing that the link between a constituency director and the VC investors may be more or less explicit).
56 See id. at 335-341 (arguing that constituency directors offer a way to complete the necessary incomplete contracts of venture capitalists and other investors).
57 See Bartlett, supra note 47 at 57-58 (identifying features of VC contracting that cannot be explained in terms of agency costs).
58 Smith, supra note 44 at 139.
59 See id. at 140 (quoting Michael Gorman & William A. Sahlman, What Do Venture Capitalists Do?, 4 J. BUS. VENTURING 231 (1989)).
VC contracting recognizes the value of the contributions by both the entrepreneur-insider and the VC investors by adopting a model of shared decision-making. A collaborative governance model is better situated than a confrontational one to promote conditions that facilitate the development and aggregation of the valuable firm-specific information of both the entrepreneur and the investors. As we shall see next, the changes that have occurred in corporate production and the role of shareholders have increasingly blurred the line between the VC context and the public cooperation context, with the result that many public corporations are also moving from a confrontational model to a collaborative one.

B. The Extension of Collaboration to the Public Corporation

Insider-shareholder collaboration has spread from the VC context to publicly-traded firms. Three factors explain this development. First, public firms have become more dependent on the information-intensive environment that has traditionally been the province of start-ups. Second, the shareholder base of public companies is now dominated by large institutional shareholders who are devoting growing sophistication and resources to understanding and engaging with their portfolio companies. As a result, these investors offer firms new sources of information. Third, the modern public company board consists, almost entirely, of independent directors, creating an information challenge for unilateral board-decision-making.

1. Partial Information Problem and the Public Corporation

Corporate production has undergone a vast transformation in the last thirty to forty years. In the industrial age, corporations derived most of their value from physical assets and manufacturing activities. In the twenty-first-century corporation, instead, firm value increasingly depends on intangible assets, such as technological knowhow, patents, research and development projects, brand names, and trade secrets. Along the same lines, human capital has also become a specialized resource. Successful corporations today are defined by their ability to access, transfer and assemble specific knowledge. While one may think of the shift to intangible “knowledge” assets as a process that only affects new economy companies such as Google, Facebook, Apple,

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60 See Carol A. Corrado & Charles R. Hulten, How Do You Measure a “Technological Revolution”? 100 Am. Econ. Rev. 99, 100 (2010) (“The recent technological revolution, in its various manifestations, is associated with a dramatic shift in the composition of investment spending and in the factors driving the growth of output per worker hour.” (emphasis omitted)).

61 As explained by Carol Corrado and Charles Hulten:

[T]he innovation that has shaped recent economic growth is not an autonomous event that falls like manna from heaven. Nor is it a result of R&D and ICT investments alone. Instead, a surge of new ideas (technological or otherwise) is linked to output growth through a complex process of investments in technological expertise, product design, market development, and organizational capability. This process affects all sources of growth to one extent or another but is most clearly detected in the growing contribution of intangible capital.

Id. at 103.

62 See, e.g., Alex Edmans, Does the Stock Market Fully Value Intangibles?: Employee Satisfaction and Equity Prices, 101 J. Fin. Econ. 621, 622, 627-29 (2011) (“I find a strong, robust, positive correlation between [employee] satisfaction and shareholder returns. This result provides empirical support for recent theories of the firm focused on employees as the key assets.” (citations omitted)); Luigi Zingales, In Search of New Foundations, 55 J. Fin. 1623, 1641-42 (2000) (emphasizing the importance of human capital over physical capital in today’s corporations).
and Tesla, in reality, information increasingly is the key driver to success across industries.\textsuperscript{63} Moreover, generating and exploiting knowledge demands that knowledge be continually replenished.

As a result, the informational structure of the public corporation has become more complex than reflected in the traditional models of the corporation. Under those models, information issues only mattered in connection to moral hazard and other agency costs, in the form of an asymmetric information problem between insiders and investors. The normative task was then to determine the appropriate balance of shareholder and insider power to limit managerial moral hazard without sacrificing efficient operational decision-making. A presumption about the confrontational nature of the insider-shareholder relationship logically followed.

In today’s knowledge-rich economy, however, asymmetric information issues only partially capture the relevance of information for the theory of the firm. Indeed, in this economy, “partial information” problems are likely to matter as much as, if not more, than asymmetric information problems for firm value. Indeed, as Harold Demsetz observed, although information has obvious connections to moral hazard and agency costs, information costs play a bigger role in the theory of the firm.\textsuperscript{64} Changes in corporate production and the role of shareholders increase this role. Successful corporations are defined today by the ability to bring together the vast quantities of information necessary for the production of “knowledge assets”\textsuperscript{65}—ideas linked to investments in technological expertise, product design, market development and organizational capability.\textsuperscript{66} In this environment, Demsetz’s remark that “[e]conomic organization, including the firm, must reflect the fact that knowledge is costly to produce, maintain, and use”\textsuperscript{67} has never been more to the point.

Partial information problems have now transferred to the public corporation because the operational complexity makes it highly unlikely that any single individual or organization will possess the relevant information to respond effectively to all business challenges.\textsuperscript{68} Rather, information tends to be scattered through a multitude of agents, requiring corporate actors to

\begin{footnotesize}
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\item \textsuperscript{63} See Colin Mayer, \textit{Reinventing the Corporation}, 4 J. BRITISH ACAD. 53, 54 (2016) (stating that 80% of the market value of U.S. corporations is nowadays represented by intangible assets).
\item \textsuperscript{64} Harold Demsetz, \textit{The Theory of the Firm Revisited}, 4 J. LAW, ECON. & ORG. 141, 141 (1988). Studies on the issue of the production, aggregation, and dissemination of information within organizations date back to the pioneering work of Simon, Polanyi, and von Mises. See, e.g., HERBERT A. SIMON, \textit{Administrative Behavior} 72-73 (3d ed. 1976) (focusing on the issue of the difficulties and costs associated with transferring information within firms and in markets); MICHAEL POLANYI, \textit{Personal Knowledge: Towards A Post-Critical Philosophy} 52 (1958) (discussing the concept of tacit or personal knowledge—things that we may know but find impossible to completely and effectively communicate to others); LUDWIG VON MISES, \textit{Human Action: A Treatise On Economics} (1949). See also Utset, supra note 49 at 73-76 (providing an overview of the relevant literature). Over time, however, the study of informational issues in corporate governance has lost its initial general relevance and become limited to matters connected with agency costs.
\item \textsuperscript{66} Corrado & Hulten, supra note 60 at 103.
\item \textsuperscript{67} Demsetz, supra note 64, at 157.
\item \textsuperscript{68} The Purposeful Company Report, supra note 65, at 14.
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leverage and pull knowledge from multiple sources. Adding to this informational complexity, the rise of sophisticated and actively-informed investors suggests that these investors are increasingly likely to have the capacity to gather relevant knowledge, knowledge that board members may not necessarily share.

Under these different informational assumptions, the normative necessity of a confrontational corporate paradigm disappears. The task is no longer only to determine the appropriate balance of shareholder and manager power to limit managerial moral hazard but also to determine the best way to aggregate the partial information of corporate insiders and shareholders. The increased use of collaborative schemes that we observe in public corporations suggests that these schemes can pursue this task better than traditional competitive schemes.

2. Empowered and Informed Investors

Capital market developments make it increasingly rational to look to public company shareholders as sources of valuable information. Modern shareholders no longer fit Berle and Means’ account.\(^69\) They have instead become empowered, largely because of the reconcentration of equity ownership,\(^70\) which has increased since the 1990s.\(^71\) Institutional investors now own over two-thirds of the outstanding shares of the thousand largest U.S. public companies.\(^72\) These investors vary in their characteristics – ranging from passive mutual funds that select stocks according to a broad market index to hedge funds whose business model is predicated on identifying companies that they believe underperform industry peers and forcing changes from the inside that can improve corporate performance. In spite of these differences, however, institutional investors of all types have grown increasingly informed as well as increasingly engaged in their portfolio companies.

Similar to VC investors, today’s institutional investors bring their knowledge of the market rather than just capital to firms. Hedge funds specialize in developing firm-specific information which they then deploy by providing governance and strategic inputs to the firms they target.\(^73\) In selecting targets and devising future investment strategies, the funds employ teams of dedicated analysts who pore over financial documents, engage with both the company’s existing investors and competitors, and often visit potential targets to gather as much information as possible.\(^74\) Hedge funds also tend to specialize on certain industries or sectors of an industry, around which they build a strong expertise and develop network contacts.\(^75\)

Large institutional investors such as mutual funds are also increasingly engaged in information production and no longer just as “reticent” supporters of initiatives undertaken by activist hedge

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70 Other crucial changes occurred in the market place include the emergence of proxy advisory firms, the adoption of “universal” majority voting and accompanying withhold campaigns. See Marcel Kahan & Edward Rock, Embattled CEOs, 88 TEX. L. REV. 987, 995-1005, 1010-11 (2010).
71 Id. at 996.
72 Gilson & Gordon, supra note 69, at 865.
73 See id. at 897.
74 See OWEN WALKER, BARBARIANS IN THE BOARDROOM 31 (2016).
75 See id., at 11-21 (discussing the different business models of major hedge fund players).
funds. Asset managers like BlackRock, Vanguard, and State Street—whose combined holdings make them the largest shareholder in 40 percent of all U.S. listed companies—have both the resources and the incentive to develop governance sophistication and expertise. Many large institutional investors also now have in-house teams that are dedicated to gathering governance information and investment insights, and to formulating policies ranging from board composition to risk management.

Collectively, these developments stand in sharp contrast to the traditional management-power claim that, because shareholders are poorly informed, they should play a limited role in corporate decision-making. At the same time, the developing skills and inputs of today’s shareholders extend far beyond the shareholder-power claim for increased monitoring. Shareholders also provide crucial informational inputs, inputs that, as we shall see next, the modern independent board may be unable to provide.

3. Independent Directors and Information Access

The final development that explains the extension of collaboration to the modern public company is the rise of the independent board. The percentage of independent directors on corporate boards has steadily increased since the aftermath of the takeover era, as a result of various mechanisms that have transformed the independent or “monitoring” board into a virtually mandatory element of law. Most U.S. boards now consist largely of outsiders with full-time jobs elsewhere who can devote only limited time to the running of the business for which they act as directors. The outpouring of new regulation resulting from the financial crises of the last decade also claims a significant portion of that time, limiting the time independent directors can spend on information gathering and business decision-making.

In addition, the standards for independence have become increasingly stringent, so much so that, according to some commentators, they “rule[] out just about anybody who has firsthand

76 See Gilson & Gordon, supra note 69, at 867 (describing institutional investors as “rationally reticent”).
77 If we restrict the field to the largest 500 American corporations, share ownership by the “Big Three” (i.e., BlackRock, Vanguard, and State Street) amounts to an astonishing 88 percent. See Jan Fichtner et al. Hidden Power of the Big Three? Passive Index Funds, Re-concentration of Corporate Ownership, and New Financial Risk, 19 BUS. & POL. 238, 313 (2017). The rise of the Big Three is explained by the massive shift from active toward passive investment strategies, which began after the financial crisis. Id. 302-306. Unlike active funds, passive “index” funds replicate existing stock indices by buying shares of the member firms of a particular index. Blackrock, Vanguard and State Street largely dominate the passive index fund industry, collectively managing over 90 percent of all assets under management in passive equity funds. Id. at 304.
79 See Gordon, supra note 43, at 1465 (noting that between 1950 and 2005, the percentage of independent directors increased from approximately 20 percent to 75 percent).
80 Among others, these mechanisms include stock exchange listing standards mandating director independence, Delaware courts requirements, and pressure from corporate governance reformers—first “as part of the post-hostile bid settlement among institutional investors, managers, and boards” of the 1990 and then in the aftermath of the corporate scandals of the early 200s. Id. at 1468, 1477.
82 Id.
knowledge of the company and its industry.” The emphasis placed on independence requirements can indeed have the effect of sacrificing expertise by disqualifying directors based on their firm or industry ties. The result is that most independent directors lack the firm-specific human capital, knowledge and skills of executive directors and tend instead to be “generalists.” In the best-case scenario, independent directors develop firm-specific expertise over a lengthy process. In the worst-case scenario, they never “develop … more than a rudimentary understanding of their companies’ workings.”

The extent to which these developments limit the information available to modern public company boards is unclear. At a minimum, however, increased director independence tempers the claim that a firm’s directors have a clear informational advantage vis-à-vis outside investors. Although a board of directors retains access to unique firm-specific information, it seems factually obsolete to assume that the board cannot benefit from the different information that today’s empowered shareholders may bring.

C. A Taxonomy of Shareholder Collaboration

Both large institutional investors (such as mutual funds and pension funds) and hedge funds increasingly engage in collaboration with corporate insiders. Conceptually, however, collaboration differs between these two investor groups. Hedge funds tend to engage in firm-specific operational collaboration through the proposal of business strategy initiatives and often appoint one or more activist directors to supervise the implementation of those initiatives. Large institutional investors collaborate in ways that scale across multiple companies and broad themes, including takeover defenses, executive compensation structures, public policy issues, and regulatory matters.

Further, the spectrum of shareholder collaboration presents significant variation. Collaboration can take place both within and outside the institutional structure of the corporation, have an explicit or implicit contractual nature and be advisory or binding. Collaboration thus emerges as a “continuous,” rather than a “binary” choice. This subpart examines the spectrum of collaboration and highlights some recent examples.

1. Hedge Funds and Constructivist Activism

Activist hedge funds are usually portrayed as the prototypical corporate adversaries who seek to wrest board control, replace existing management and engineer a structural or operational

84 Cf. Yaron Nili, Horizontal Directors (working paper 2018) (arguing that current and former directorships in the same industry may have anticompetitive effects).
85 Bainbridge & Henderson, supra note 81, at 1066.
86 CARTER & LORSCH supra note 83, at 49.
87 Id. at 45.
88 See Bainbridge & Henderson, supra note 81, at 1065-66.
89 A binary choice is one where the alternatives are yes or no, acceptance or decline. A continuous choice, instead, is one between a set of differently preferred alternatives. See, e.g., THOMAS SCHELLING, MICRO MOTIVES AND MACRO BEHAVIOR 213-14 (1978); Robert Putnam, Diplomacy and Domestic Policy: The Logic of Two-Levels Game, 42 INTERN. ORG. 427 (1988).
change. Yet hostile campaigns are not the exclusive form of hedge fund activism. Instead, the structure of these campaigns varies, sometimes substantially, depending on the fund’s specific business model and temperament of its managers, the target’s response, whether the fund seeks the replacement of the entire board or, more typically, only a partial slate and whether it can count on the support of the company’s institutional investors. In particular, hedge funds are increasingly embracing a more “constructivist,” longer-term kind of activism.

A constructivist activist, as put by Leo Strine:

may need to knock a bit loudly, but once let in, assumes the duties and economic consequences of becoming a genuine fiduciary with duties to other stockholders and of holding its position for a period of five to ten years, during which it is a constructive participant in helping the rest of the board and management improve a lagging company.

Constructivist activism is best understood as shareholder collaboration. A constructivist hedge fund combines industry knowledge with a deep dive into firm-specific information, researching its target and developing a strategic agenda. The hedge fund typically incorporates this research into a detailed presentation or white paper that communicates the hedge fund’s information both to the board and to other shareholders. Whether through a short slate election contest or more commonly a settlement agreement, the hedge fund obtains board representation and uses that representation to work within the existing board to oversee the incorporation of its information into operational decisions for the purpose of improving firm performance.

Viewed through this lens, the rise of settlement agreements granting the activist negotiated board representation is an important component of the shift from confrontation to collaboration. The number of activist representatives serving as directors continues to grow – activists obtained 616 board seats since 2013. Only a small percentage of these directors obtained their positions through full election contests; most activist representatives obtained board seats through a negotiation with the issuer outside the proxy contest process. Activists obtained more board

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90 See Walker, supra note 74, at 31.
91 See id. at 13-14, 15-17.
92 Strine, supra note 39, at 1908.
93 See, e.g., JP Morgan, The 2017 Proxy Season at 15 (July 2017) (documenting the growth in operational activist campaigns focused on cost-cutting and strategic direction, as opposed to M&A objectives).
seats in the first quarter of 2018 than all of 2017. Moreover, more than 85% of the seats in Q1 2018 were obtained by settlement rather than through a proxy fight.

These settlements between activists and issuers have a number of features. They typically include a standstill agreement in which the activist agrees not to engage in hostile activity as well as to refrain from trading – a necessary feature to preclude the misuse of firm-specific non-public information. They often contemplate a long-term engagement between incumbent directors and activist nominees. Although board representation may still simply be a means to exploring a sale or other structural changes, many activist directors are retaining their board seats for multiple years and focusing their attention on business strategy and other operational issues. In similar circumstances, settlement agreements are likely to promote an environment in which activist-appointed directors – similar to constituency directors in the VC context – work alongside incumbents as colleagues to effect changes in a collaborative rather than confrontational manner.

Further, while constructivist activists have traditionally represented the minority numerically (relative to hit-and-run, hostile activists), both the empirical and anecdotal evidence point to substantial growth in this form of activism. Commentators now suggest that collaborative engagement could dominate hostile engagement in the future. In an article published in February 2018, the Financial Times spoke of a new class of “sons of activists,” which includes several former portfolio managers of more established, hostile hedge funds. This new generation of activists is “eschewing the public dispute and open confrontation” of the older guard and is instead “eager to work with management behind the scenes and to hold positions for longer.”

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98 Id.
99 For example, some companies require activist-appointed directors to sign and pre-deliver director resignations that are automatically triggered when the board decides that the representative has breached the settlement agreement. See Derek D. Bork, Settlement Agreements with Activist Investors – The Latest Entrenchment Device?, HARV. L. SCH. ON CORP. GOV. & FIN. REG. (Jul. 7, 2016).
100 See, e.g., Ian D. Gow, Sa-Pyung Sean Shin & Suraj Srinivasan, Activist Directors: Determinants and Consequences, working paper (2014) (reporting average tenure, as of 2013, of two years for activist directors who had left board and nearly four years for directors who are still on the board).
101 See id. at 9 (documenting percentage of activist campaigns in 2017 devoted to various objectives). See also Ethan Klingsberg & Elizabeth Bieber, Activism in 2018, HARV. L. SCH. FOR. ON CORP. GOV. & SEC. REG., Jan. 29, 2018 (observing that “[t]he activists are now regularly holding investments for four to five years and focusing more consistently during the initial years of their investments on advocating for operational turnarounds.”).
103 See C.N.V. Krishnan et al., The Second Wave of Hedge Fund Activism: The Importance of Reputation, Clout, and Expertise, 40 J. CORP. FIN. 296, 309-10 (2016) (providing empirical evidence that the most successful activists have been capable of taking large stakes, gaining board seats and staying in a corporation for longer periods of time); Shill, supra note 7, at 1254, 1261-64 (describing a “dynamic” of “boards and activists . . . edging unmistakably towards collaboration” and providing anecdotal evidence supporting this conclusion).
104 See, e.g., WALKER, supra note 74, at 230.
106 Id.
Value Act’s involvement with Microsoft offers a high-profile example of constructivist activism. In 2013, Value Act researched Microsoft for months, concluding that the company suffered from a “perception problem.” Most investors believed that the company’s profits came largely from the sale of operating systems and personal computers. The declining PC market thus suggested that Microsoft’s prospects were not good. Value Act instead believed the company’s strength lay in other services, such as the company’s Office suite of products and Outlook email system.

After some behind-the-scenes contacts, the parties signed a standstill agreement, under which Value Act obtained a board seat in exchange for desisting from a potential proxy fight—de facto choosing a collaborative scheme over a competitive one. Following the signing of the standstill agreement, Microsoft implemented several of the suggestions made by Value Act (including, the appointment of a new CEO). Meanwhile, the share price of Microsoft rose considerably.

Commenting on the success of the venture, Value Act’s Morfit Mason remarked that Microsoft is not the usual hedge fund story of battles, victors, and losers. It is actually about re-examining all of the premises on which a 40-year-old-icon was built and discarding the ones that don’t make sense in this world and driving toward the ones that do. You can trace all of the actions that have happened at Microsoft to that fundamental attitude. Not necessarily to us, but Microsoft re-examining all of its fundamental beliefs.

Value Act’s investment in Microsoft was a long-term one. Mason sat on the Microsoft board and Value Act held a substantial quantity of Microsoft stock through 2017. During this time, Microsoft’s stock price continued to increase.

The 94-page whitepaper released by Nelson Peltz’s Trian Fund – another fund with a well-established reputation for constructivist activism – in the recent engagement at Procter & Gamble (P&G) provides another salient example. Trian’s whitepaper made it clear that the fund was seeking the addition of Peltz to the P&G board in order to create “sustainable long-term value at P&G,” and not seeking to replace P&G’s CEO or any other “classic” disciplinary outcomes sought by hostile activists. At least on paper, Trian was seeking a collaborative rather than a competitive interaction with the P&G board, one designed to add knowledge rather than to have the board fired. Concededly the P&G board strongly opposed Trian’s intervention, which led to one of the

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107 WALKER, supra note 74, at 145-55.
108 Id. at 155.
most expensive proxy contests in history. In the end, however, P&G shareholders narrowly supported Peltz’s candidacy. It is also noteworthy that even after P&G conceded defeat, Peltz continued to profess his intention not to disrupt the board’s operations, but to “working collaboratively with [P&G’s CEO] and the rest of the board to drive sustainable long-term shareholder value.”

Trian’s recent intervention in another classic American brand, General Electric Company (GE), presents even clearer collaborative features. This time, the company itself initiated the collaboration; GE’s CEO invited Trian to invest in the company and become active in reforming it. That Trian had knowledge unavailable to GE was implicit in that request. At the same time, as noted by one commentator, the request would arguably not have materialized if Trian had not developed a reputation “for working behind the scenes with management to improve performance . . . [and sticking] around, often for years, as transformations occur.”

Lastly, on the front of the new generation of the “sons of activists,” up-and-coming De Shaw & Co. made news in early 2018 for gaining three boards seats at Lowe’s, the giant home improvement chain. The appointment of De Shaw’s activist directors took place after a settlement that Lowe’s management described as involving “constructive discussions” with the fund. Significantly, the entire campaign was kept private until the settlement. According to industry watchers, this circumstance underlines the change in approach of the new generation of activists, which are “not just less confrontational in public, but also easier to work with behind the scenes.” Whereas the older guard would pressure, or even intimidate incumbents into effecting desired changes, the new guard is “not going to intimidate anyone.” Instead, they are trying to collaborate with insiders.

2. **Mutual and Pension Fund Engagement**

Notably, a substantial proportion of large institutional investors such as mutual funds and pension funds are committed investors in the sense that they do not or cannot readily sell their stock if they disagree with managers’ operational decisions. This commitment creates both an incentive for them to invest in generating firm-specific information and an assurance to managers

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115 Id.


118 Fortado, *supra* note 105.

119 Id.

120 Id.

121 Id.

122 See Fisch, et al., *supra* note 78 (explaining that so-called passive investors cannot exit by selling their stock).
that the concerns that the investors bring to the dialogue are not the product of short-term strategies.\textsuperscript{123}

Collaboration between large institutional investors and corporate insiders, however, differs from hedge fund collaboration in both form and substance. Institutional investors do not typically seek board representation.\textsuperscript{124} Nor do they engage in the level of detailed research and firm-specific analysis that characterizes hedge fund campaigns.\textsuperscript{125} Instead, large institutions collaborate through various forms of “engagement,”\textsuperscript{126} which operationalizes a dialogical process\textsuperscript{127} about matters of concern.\textsuperscript{128} In particular, engagement tends to focus on market-wide or industry-wide issues such as governance, sustainability and risk management,\textsuperscript{129} as the size of institutional investors place them in a unique position to enjoy economies of scale and observe trends across the companies in their portfolio that may supplement the perspective of firm insiders.

Engagement by institutional investors often results in changes at the involved companies, although these changes are the result of a consensus process between corporate insiders and institutional investors. For example, in a recent survey on the top successful engagement outcomes, shareholders listed the promotion of additional company disclosures, the adoption of specific changes in company policies or business practices, and the company’s commitment to act on issues of concerns in the future.\textsuperscript{130}

\textsuperscript{123} See id. (observing that passive investors do not benefit from strategies that generate short term gains at the expense of long-term value).

\textsuperscript{124} At least one corporation has established an advisory committee to allow shareholders to suggest new directors. See Dangerous Talk? When/How Should Directors Communicate with Shareholders?, LATHAM & WATKINS (Latham & Watkins, San Diego, C.A.), at 2. John Coffee has proposed that a steering committee of institutional investors in charge of assembling a team of outside directors in case of an activist attack could provide an effective solution to the problems raised by hedge fund-appointed directors. See Coffee, supra note 94, at 26.

\textsuperscript{125} See, e.g., Sharon E. Fay, The Megaphone Effect, AB Equity Insights at 3, June 2018, avail. at https://www.alliancebernstein.com/sites/library/Instrumentation/FINAL_EQU-7697-0618.pdf (noting that “index funds are noticeably absent from engagement based on fundamental research”).


\textsuperscript{127} The SEC has expressly indicated its support for increased communication between issuers and shareholders and offered “guidance on ways to enhance the ability of corporations to effectively and efficiently communicate with shareholders.” Lisa M. Fairfax, Mandating Board-Shareholder Engagement?, 2013 U. ILL. L. REV. 821, 831 (2013).


Engagement can take a wide range of forms, from private “one-on-one” meetings,\textsuperscript{131} to periodic “investor days,”\textsuperscript{132} investor relations contacts,\textsuperscript{133} industry conference presentations,\textsuperscript{134} a variety of online communication tools,\textsuperscript{135} as well as letters and phone calls.\textsuperscript{136} Several companies have also adopted “shareholder engagement policies,” which are designed to provide structured interaction guidelines for engagement – including on the frequency, methods and topics of insider-shareholder interaction.\textsuperscript{137} Along similar lines, some boards have established “engagement committees,” which are permanently charged with managing the shareholder engagement process.\textsuperscript{138}

Attesting to the mounting importance of shareholder engagement, a recent survey found that 63 percent of large institutional investors have engaged in direct discussions with management over the past five years, and 45 percent had private discussions with a company’s board outside of management presence.\textsuperscript{139} And while just six percent of S&P 500 companies reported investor engagement in 2010, engagement figures rose to 23 percent by 2012, 50 percent in 2014, and reached 72 percent as of June 2017.\textsuperscript{140} The numbers for BlackRock and Vanguard are especially

\textsuperscript{132} Id. at 3.
\textsuperscript{134} Id. See also Nasdaq, What's New in Shareholder Engagement: Telling Your Own Story, June 22, 2017, https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=4&ved=2ahUKEwiMvdbG76TcAhXqlFQKHaZnBYAQFjADegQARAC&url=https%3A%2F%2Fwww.nasdaq.com%2FViewPDF.aspx%3FClearinghouseArticle.aspx%3Fmtrlid%3D13192%26print%3D3Y%26FileNm%3DWhat%2527s%2520New%2520in%2520Shareholder%2520Engagement%253A%2520Telling%2520Your%2520Own%2520Story&usg=AOvVaw2_E0zT0hVy7oNTgbYQkhRy (describing shareholder engagement through online interactive proxy statements).
\textsuperscript{135} See Fisch, et al., supra note 78 (reporting that “In recent years, mutual funds have increasingly made direct contact, by letter, phone, electronic communication and, increasingly direct meetings, with the officers and directors of their portfolio companies”).
\textsuperscript{137} Foley & Lardner LLP, supra note 130. See also Press Release, Tempur Sealy Announces Leadership and Board Changes, May 11, 2015, http://investor.tempursealy.com/releasedetail.cfm?ReleaseID=912242 (announcing the creation of “a new Stockholder Liaison Committee, in order to create a Board-level structure for communication and engagement between the Board and stockholders and to enhance the existing stockholder communications process led by the Company's management.”); Letter dated Feb. 27, 2015 from F. William McNabb III, Vanguard’s Chairman and CEO, https://about.vanguard.com/investment-stewardship/CEO_Letter_03_02_ext.pdf (explaining that “shareholder liaison committees … can provide an appropriate structure for communicating with significant shareholders”).
\textsuperscript{138} Joseph McCahery, Zacharias Sautner & Laura Starks, Behind the Scenes: The Corporate Governance Preferences of Institutional Investors, 71 J. Fin. 2905, 2906 (2016).
\textsuperscript{139} Ernst & Young, 2017 Proxy Season Review, http://www.ey.com/Publication/vwLUAssets/ey-2017-proxy-season-review/$File/ey-2017-proxy-season-review.pdf (last visited Oct. 9, 2017). Among others, a company’s responsiveness to shareholder requests has also become one of the fundamental evaluation criterion used by the
telling. From mid-2014 to mid-2015, BlackRock performed over 1,500 private “engagements” with companies held in their portfolio and Vanguard had over 800 company engagements.141

Besides engagement, examples of collaborative initiatives by institutional investors continue to emerge. On August 31, 2017, for instance, Vanguard released a letter to investors pushing for a two-way dialogue with corporations and reaffirming the importance of building “relationships with boards and management teams.”142 Only eight days later, on September 8, 2017, Scott Stringer, the NYC Comptroller who manages the New York City Pension Funds, released a similar letter to the boards of 151 companies requesting a meeting with these companies’ directors to discuss matters such as director criteria, diversity and skillsets and their linkage to the companies’ needs and risks.143 In June 2018, T. Rowe Price, issued a statement emphasizing that the firm’s “ability to generate unique insights about companies” reflected the additional “ability to cultivate constructive, private, two-way communication” with company management teams.144 Investors are also increasingly encouraging issuers to develop structures to facilitate an ongoing collaborative enterprise.

Further, engagement does not just occur at the individual company level. Both investors and issuers are participating in a growing number of private initiatives aimed at promoting board-shareholder collaboration on a variety of issues and, in particular, corporate governance matters.145 One of the first such initiatives was the “Shareholder-Director Exchange Program” (SDX), a private organization established in 2014 by representatives of major U.S. corporations and big institutional investors like BlackRock and Vanguard.146 The SDX’s aim is promoting a voluntary template for healthy relations between shareholders and boards as well as regular and successful engagement on matters such as corporate governance, management changes and long-term plans.147 Importantly, in defining successful engagement, the SDX’s protocol includes as essential “each party’s willingness to listen carefully to one another and to take action in response to valid

Institutional Shareholder Service (ISS) in recommending votes on a variety of governance topics, which might be one of the factors behind the increase in shareholder engagement. See Foley & Lardner LLP, supra note 138, at 5.

141 See Fichtner et al., supra note 77, at 318.
143 Martin Lipton & Sebastian Niles, Wachtell, Lipton, Rosen & Katz, Institutional Investor Input into Director Selection (Sept. 8, 2017) (on file with authors).

In the words of one SDX member, the SDX developed in the belief that “[s]hareholders and the boards that serve them need to be closer, they need to be more integrated, and there need to be real relationships.” See id.
That is, each party’s willingness to collaborate with the other is crucial within the SDX framework.149

Along similar lines, in 2016, representatives of major U.S. corporations and major investors (including Blackrock, Vanguard and ValueAct) signed a paper calling for new commonsense principle of corporate governance, principles that build on a constructive dialogue among the involved parties.150 In 2017, a collective of US-based institutional investors and global asset managers151 launched the “Investor Stewardship Group” (ISG), with the aim of improving cooperation among companies, large investors, and shareholders.152 The same year the International Business Council of the World Economic Forum approved “The New Paradigm,” a programmatic framework that “conceives of corporate governance as a collaboration among corporations, shareholders and other stakeholders….,”153 with the expectation that institutional investors will “work to understand corporations’ strategies and operations and engage with them to provide corporations with opportunities to understand the investors’ opinions and to adjust strategies and operations in order to receive the investors’ support.”154

Investors’ common ownership – the fact that many institutional investors own “significant stakes in multiple firms in the same industry”155 – also enhances their incentives to collaborate with corporate insiders. Common ownership gives investors a comparative advantage relative to firm management in acquiring information that may be of value to several of their portfolio companies – such as information about macroeconomic trends, evolving legal risks and developing market norms. Investors are increasingly choosing to use this advantage with, rather than against,

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148 Id.
149 Consistent with the increasingly proactive approach to engagement taken by both investors and corporations, the SDX meetings – as observed by a founding member – “have to have a purpose. It isn’t just about everyone getting to know one another.” See id.
150 Tim Armour et al., Commonsense Corporate Governance Principles, COMMONSENSE CORP. GOVERNANCE PRINCIPLES, http://www.governanceprinciples.org [http://perma.cc/YWN6-48PR] (emphasis added). Among other governance matters, the commonsense principles cover the composition, election, compensation, and tenure of directors, the communication process between the board and the investors, shareholder rights, public reporting and management compensation and succession planning. See id.
154 Id.
management. An example is the recent efforts by several large institutional investors to work with their portfolio companies to promote increased attention to sustainability issues. Thus, last year, Blackrock, Vanguard and State Street led efforts to induce Exxon management to devote greater attention to – as well as adopt greater disclosure and transparency about – the risks associated with climate change.\footnote{156 See, e.g., Steven Mufson, Financial Firms Lead Shareholder Rebellion against Exxon Mobil Climate Change Policies, WASH. POST (May 31, 2017).}

Large institutional investors also have privileged access to legal and regulatory policy. As Asaf Eckstein documents, institutional investors are increasingly invited to comment on regulatory initiatives at a pre-proposal stage and to engage in a dialogue with policymakers.\footnote{157 See Eckstein, supra note 155.} This access both enables investors to influence regulatory policies in ways that may benefit their portfolio companies and provides them early insights into potential regulatory changes that may require firms to adapt their operational policies.

Finally, institutional investors serve a critical gatekeeping role with respect to hedge fund activism. It is well known that, because of their relatively small stakes, activists need the support of passive investors to be successful, support that in the past they have frequently been able to secure.\footnote{158 Gilson & Gordon, supra note 69, at 867, 889.} In recent years, however, institutional investors have taken a more nuanced view of activist interventions.\footnote{159 See Sepe, supra note 5, at 1440-41.} On the one hand, they have increasingly withheld support of activists who primarily seek to force companies into share buybacks, extraordinary distributions and other short-term “cut and run” strategies,\footnote{160 See Andrew Ross Sorkin, BlackRock’s Chief, Laurence Fink, Urges Other C.E.O.s To Stop Being So Nice to Investors, N.Y. TIMES (Apr. 13, 2015), http://www.nytimes.com/2015/04/14/business/dealbook/blackrocks-chief-laurence-fink-urges-other-ceos-to-stop-being-so-nice-to-investors.html?_r=0 (discussing the concerns expressed by Larry Fink, the CEO of BlackRock, about short-termist hedge fund activism).} which are incompatible with the longer investment horizon of institutional investors. On the other hand, institutional investors have remained willing to support activists that are committed to long term value through collaboration.\footnote{161 As Larry Fink explained in Blackrock’s 2016 letter to CEOs, “activists who focus on long-term value creation sometimes do offer better strategies than management. In those cases, BlackRock’s corporate governance team will support activist plans.” Matt Turner, Here is the Letter the World’s Largest Investor, BlackRock CEO Larry Fink, Just Sent to CEOs Everywhere, BUSINESS INSIDER (Feb. 2, 2016), http://www.businessinsider.com/blackrock-ceo-larry-fink-letter-to-sp-500-ceos-2016-2.} Further, institutional investors’ ability to function as the marginal voters in activist campaigns strengthens their effectiveness in ongoing engagement. Managers increasingly recognize that the support of institutional investors is a valuable defense to potentially hostile interventions and, as a result, have become more willing to engage with investors, build relationships and respond to their concerns.\footnote{162 See, e.g., Peter Michelsen & Derek Zaba, The Rise of Investor-Centric Activism Defense Strategy, Harv. Law Sch. Forum on Corp. Gov. & Fin. Reg. (Oct. 25, 2017), https://corpgov.law.harvard.edu/2017/10/25/the-rise-of-investor-centric-activism-defense-strategy/ (“[T]he right approach for companies is to ‘think like a shareholder representative’: engage with investors, understand and incorporate their perspectives, and educate them on why the company is pursuing a particular strategy, particularly before an activist appears”).}

III. DEFENDING AND STRUCTURING THE COLLABORATIVE MODEL
Part II explained that the insider-shareholder dynamic in the public corporation is increasingly collaborative, rather than competitive, as argued by the defendants of the traditional models of the corporation. It also suggested that collaboration is a response to the informational changes that have occurred in corporate production and the role of shareholders, changes under which partial information problems have, for many firms, grown costlier than agency problems.

In this Part, we use insights from both epistemic models of collective wisdom and the economics of information to defend the normative desirability of the collaborative model. We do this through the following steps. In Section A, we explain that the partial information of investors and insiders is likely to be complementary, so that the informational whole resulting from the aggregation of insider and shareholder information is greater than the sum of its parts. In Section B, we show that collaboration provides a mechanism for efficiently combining the partial and complementary information of insiders and shareholders, a mechanism that neither unilateral decision-making nor the mediated transmission of information through markets can provide. In Section C, we offer an illustration to make the value-increasing properties of shareholder collaboration more tangible. Lastly, in Section D, we discuss how the rules of the collaborative “game” should be designed to ensure that collaboration is compatible with the individual incentives of directors, managers and shareholders.

A. The Value of Collaboration

1. Information Complementarity

As we discuss above, the value of collaboration flows from the aggregation of the partial information that insiders and shareholders possess in a world of complex investments and reconcentrated equity ownership. We argue that the source of this added value stems from the fact that the partial information supplied by shareholders and insiders is likely to be “complementary” in nature.

Information is *complementary* when the possession of one piece of information increases the marginal value of acquiring the second piece, so that the informational whole is greater than the sum of its parts. Complementary information is to be distinguished from *substitute* information. Information is substitute if the possession of one piece of information decreases the marginal value of acquiring another piece of information. In essence, information that is relatively similar tends to be substitute, as the second piece of information does not contribute much to the pre-existing knowledge.

Cognitive models help explain why corporate insiders and shareholders are likely to possess complementary rather than substitute information. These models distinguish between

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164 *Id.*
interpretative signals and the standard generated signals of statistical collective-wisdom models.166 “Generated” signals are the result of a random variable drawn from a distribution. For example, in the corporate context, observed sales of a new product sends a generated signal about whether the product is of good quality.167 Generated signals, however, do not capture the fact that agents both receive signals and also interpret them, determining their meaning in light of other information, experience and expertise. Thus, an agent might use its knowledge of the market, consumer needs or past sales to determine whether the signal it receives from the sales of a new product is about customers’ reactions to the product’s quality or its price. Interpreting this signal correctly allows managers to make appropriate operational decisions about the future of the product. The role of interpretation may also induce firm decision-makers to search for a different kind of information than that provided by the sales of the product alone.

Cognitive models of collective wisdom seek to capture this richer signaling structure through the concept of “interpreted” signals. Unlike generated signals, which are passively received by the agents, interpreted signals result from the agents’ “active cognitive effort.”168 That is, to create an interpreted signal, an agent uses an interpretative model that filters reality into a set of categories and then uses these categories to make predictions about the variable of interest.169 Under this richer cognitive structure, what matters for the ability of a collection of agents to produce more accurate predictions than a single agent in isolation are the characteristics of the agents’ interpretative models.

Cognitive theory show that these models need to be sophisticated and diverse. The intuition can be grasped as follows. First, when agents use sophisticated interpretative models, they will tend to partition the set of possible states of the world into many categories (that is, more than when they use less sophisticated interpretative models). Second, when agents use diverse interpretative models, each individual will create a different partition of the possible states of the world.170 As a result, signal heterogeneity (the production of different predictions) stems from cognitive diversity among sophisticated agents rather than randomness (as for generated

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166 *Id.*

167 More technically, Hong and Page explain generated signals as follows:

For example, suppose the relevant issue concerns the status of a firm which can be classified as either “good” (G) or “bad” (B). Agents do not know the true status, but they have a common prior, say, P(G) = P(B) = ½. Each agent draws a binary signal, whose value is either G or B, from given distributions. Most often, these signals would be assumed to be drawn independently, i.e. their values would be independent conditional on the true status of the firm.

Hong & Page, *supra* note 165, at 1275.

168 See HONG & PAGE, *supra* note 165, at 57.

169 More formally, cognitive models begin by defining predictive problems as involving a set of possible states of the world \( X \) and an outcome function \( F \), which maps each possible state of the world into a given outcome. Each individual’s interpretation of the possible states of the world is then a partition of the set of states into distinct categories. Note that predictive models are coarser than the outcome function. Indeed, whereas the objective function maps states of the world into outcomes, predictive models map sets of states of the world, namely categories, into outcomes. HONG & PAGE, *supra* note 165 at 57.

170 More analytically, diverse interpretative models tend to produce negatively correlated predictions and negatively correlated predictions produce better aggregate outcomes. *Id.* at 58.
signals).\textsuperscript{171} It follows that information based on interpreted signals is more likely to be complementary, relative to information that is the result of generated signals.

The interpretive models of shareholders and insiders are particularly likely to be sophisticated and diverse and, hence, complementary. To begin with, board members are selected for their “institutional competence,” which denotes both expertise and the ability to acquire and process information. Similarly, institutional shareholders such as large mutual funds and hedge funds are increasingly sophisticated, as they demonstrate a growing commitment to understanding the operations of their portfolio companies.

Because of insiders’ access to private firm-specific information, their interpretative models can also realistically be assumed to be diverse from those used by shareholders. But diversity also is a defining feature of the investor crowd. Institutional investors such as pension and mutual funds have different business models and investment horizons than hedge funds. Further, hedge funds themselves tend to have different business models and exhibit idiosyncratic features, especially when it comes to target selection. Some hedge funds, for example, focus on targeting companies in certain industries; others are governance specialists. Each fund follows a different template in deciding when moving on a company.\textsuperscript{172} Indeed, investor diversity is quintessential to their ability to compete with each other. If investors shared the same business model, they would no longer have the prospect of delivering competitively superior performance.

The diversity of insider and investor perspectives, experiences, and objectives increases the likelihood that they bring, not just different but complementary information to firm decision-making. As a result, if a collaborative model provides a mechanism for aggregating that information, it can enable the firm to make better informed decisions, thereby increasing firm value.

2. \textit{Aggregating Shareholder Information: Collaboration versus Markets}

As used in this article, collaboration contemplates a direct deliberative process between boards and shareholders, similar to what typically happens in legislative bodies.\textsuperscript{173} Deliberation allows agents to convey their interpreted signals directly, to receive feedback from other participants and to modify their signals in response to that feedback. The obvious alternative to collaboration is the aggregation of shareholder information through the capital markets.

It is widely recognized that the public capital markets collect and incorporate a wide variety of firm-specific and industry information, information that is incorporated through pricing.\textsuperscript{174} Jeffrey

\textsuperscript{171} See Hong & Page, supra note 165, at 2175.

\textsuperscript{172} WALKER, supra note 74, at 11-21 (comparing the business models and intervention strategies of the most important U.S. hedge funds).


Gordon’s analysis of the independent board relies on the capital markets to convey shareholder information to independent directors.175 Under this model, shareholder information, including shareholder’s analysis of corporation decisions, is reflected by stock prices. Independent directors then use the information provided by prices for optimal decision-making, evaluating that information against their own private information about corporate affairs.

Notably, Hayek was the first to emphasize how the dispersed individual knowledge aggregated through market contracting accurately determines prices even if the average individual market participant cannot.176 Under Hayek’s epistemic version of Adam Smith’s invisible hand,177 the price system thus provides a form of mediated interaction between insiders and shareholders, which can be relied upon to aggregate their respective information.178 To the extent that prices provide a sufficient mechanism to aggregate relevant information, direct collaboration would seem to be unnecessary.

We argue that the rise of shareholder collaboration is the result of limitations in the ability of the capital markets to aggregate partial and complementary information. There are two sources of these limitations. First, there may be limitations in market efficiency.179 Although over time, prices may converge to fundamental values, time delays and noise may result in persistent gaps between prices and fundamental values.180 These gaps reduce the effectiveness of prices in informing business decisions. It follows that while prices can be useful for the ex-post monitoring of corporate decisions, they are less useful for aggregating information on production decision-making.181

Second, asset pricing theory teaches that information is aggregated only when traders have substitute information.182 Here, substitute information is sufficiently similar information that a trader does not need other traders’ information to make predictions about the value of a project or company. For example, one trader might have information on a company’s sales, while another may have knowledge of a company’s distribution agreements. Both sets of information provide a proxy on the company’s future productivity but neither prediction is substantially improved by

175 Gordon, supra note at 24, at 1471.
176 Frederick A. Hayek, The Use of Knowledge in Society, 35 AM. ECON. REV. 519 (1945).
177 See Adrian Vermeule, Many-Minds Arguments in Legal Theory, 1 J. LEGAL ANALYSIS 1, 7 (2009).
178 One could argue that because this view relies on trading as transmission mechanism, markets could aggregate shareholder information effectively, but never fully aggregate insider information in a context in which insiders are prohibited by law from trading on their private information. This limitation, however, is overcome when one considers that insiders’ disclosure obligations may also serve as a transmission mechanism, as both disclosure and trading serve to convey the agent’s information.
181 Id.
182 Asset pricing theory in this case talks of “non-separable” securities. See Michael Ostrovski, Information Aggregation in Dynamic Markets with Strategic Traders, 80 ECONOMETRICA 2595, 2596 (2012).
access to the other trader’s information. As a result, each trader will trade based on her own information, which will then be incorporated in the company’s stock price as predicted by the Hayekian model.

When traders have complementary information, the information of other traders enables each to make a more accurate prediction about the value of a project or company. Unlike substitute information, however, complementary information in competitive markets with partially informed traders may not get aggregated at all. Consider, for example, the case of a computer manufacturer that is ready to launch a new computer. One investor specializes in hardware products, while the other trader is an expert in software. In this case, the two sets of information are complementary, because each investor could benefit from access to the other’s information to make a better prediction about the compatibility of the new computer’s hardware with the software available (or forthcoming) in the market. It follows that both investors will trade on incomplete information about the project’s value, which will be reflected in an inaccurate evaluation of the project and, therefore, inaccurate pricing of the company’s stock.

Unlike market trading, a deliberative process allows the investors to combine their complementary information about the new computer project to evaluate the project and transmit relevant knowledge to each other and/or the board. Accordingly, when different pieces of information are complementary such that the possession of one piece of information increases the value of acquiring another piece, only the direct communication of information allows corporate actors to extract that added value, while the mediated transmission of information through market trading cannot. Only through a deliberative process can investors convey their full information set, which may have multiple dimensions (meaning that one signal may be associated to multiple states of the world). In contrast, when investors communicate through trading, they can only observe market prices, which are unidimensional objects.

3. The Value of Collaboration: An Illustration

We offer, in this subpart, a hypothetical example to illustrate in more detail the potential superiority of collaboration over market trading for aggregating the complementary information of corporate insiders and shareholders. For simplicity, the example focuses on the relationship between the board and a single investor, but the analysis can be extended to cases involving information possessed by multiple participants, including managers, independent boards, hedge funds and institutional investors.

Consider a computer manufacturer, which we will call NewSys, that is about to launch a new computer. Similar to the stylized illustration at the end of subpart 2 above, we assume that the Board of NewSys has private information on the hardware produced by NewSys, while RedRock,

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183 In the actuality, information is never totally substitute or complementary, but rather partially complementary and partially substitute. Therefore, the representation in the text above, as well as in the example in Part III.B, should be intended as providing a stylized illustration of current informational structures.

184 Ostrovski, supra note 182 at 2596.
an investor, has private information on the software that is available on the market,\textsuperscript{185} so that the two information sets are complementary.

Assume that the value of NewSys critically depends on the success of the computer project, which turns on the compatibility of the new hardware with the available and emerging software, the standards for which are being developed in the industry. The uncertainty affecting the compatibility between the hardware and the software is captured by four possible states of the world, which occurrence is equiprobable (i.e., each state materializes with probability $\frac{1}{4}$). These states are A, B, C, and D and have the following characteristics:

under State A, the hardware produced by NewSys is of Type 1, while a new operating system available from developers in the market is of the kind Compatible 1. This means that the developers’ new software matches NewSys’ hardware;

under State B, the new hardware is of Type 1, while the new software is of the kind Compatible 2. This means that the available software does not match the new hardware;

under State C, the new hardware is of Type 2, while the new software is of the kind Compatible 1. This means that the available software does not match the new hardware;

under State D, the new hardware is of Type 2, while the new software is of the kind Compatible 2. This means that the available software matches the new hardware.

Newsys’ computer project will be valuable if its hardware is compatible with the new software, as captured by States A and D, but not in States B and C. To capture this, assume that shares of NewSys stock have value equal to $200 under States A and D and zero under States B and C.

Further assume that under the above informational structure, where the Board has private information on the hardware and RedRock has private information on the available software, each receives a signal based on its private information. The Board’s received signal can be either $a_1$ or $a_2$. If the signal is $a_1$, the Board knows that the new computer is of Type 1; therefore, the state of the world will be either A or B with the same probability. If the signal is $a_2$, the Board knows that the new computer is of Type 2; therefore, the state of the world will be either C or D with the same probability. Similarly, RedRock receives a signal that can be either $r_1$ or $r_2$. If the signal is $r_1$, RedRock knows that the software is of the kind Compatible 1; therefore, the state of the world will be either A or C with the same probability. If the signal is $r_2$, RedRock knows that the software is of the kind Compatible 2; therefore, the state of the world will be either B or D with the same probability.

\textsuperscript{185} RedRock’s information may come from its engagement with other portfolio companies or industry expertise that it has developed through research. The Board may also have information on available market software but not the same information as RedRock.
Under this information structure, both the Board and RedRock expect the value of the computer project as reflected in the price of NewSys stock to be $100.\textsuperscript{186} If the Board receives the signal $a_1$, the state of the world can be either A or B with the same probability, making the expected value of NewSys stock $\frac{1}{2} \times (200) + \frac{1}{2} \times (0) = $100. The same holds if the board receives the signal $a_2$ (under which the state of the world can be either C or D with the same probability). Likewise, if RedRock receives the signal $r_1$ (under which the state of the world can be either A or C with the same probability), the expected value of NewSys stock to RedRock is also $100. The same holds if RedRock receives the signal $r_2$ (under which the state of the world can be either B or D with the same probability).

Competitive trading in this case will not aggregate the complementary information of the Board and RedRock, as each party is unable to infer anything from the other party’s valuation of the NewSys stock. Under the price signal reflecting RedRock’s beliefs, the Board will not be able to update its beliefs about the compatibility of the computer project with the software market. This simple illustration then shows that competitive trading does not allow market participants to coordinate information to make value-maximizing operational decisions. Indeed, in this scenario, the Board will underinvest relative to a scenario in which it knows about the project’s compatibility with the software and hence that the true value of the project to Newsys is $200. Correspondingly, the Board will overinvest relative to a scenario in which it can determine that the project is flawed due to an absence of compatibility.

Consider now a scenario where the Board and RedRock can directly communicate with each other. For example, suppose the Board receives the signal $a_1$ (under which the true state of the world is either State A or B) and RedRock receives the signal $r_2$ (under which the true state of the world is either State B or D) and they exchange this information. Through this deliberation, the Board and RedRock will learn that the only state which is consistent with their respective signals is State B. That is, they would both know that computer is of Type 1, while the software is of the kind Compatible 2, which implies that the computer project has no value. This would enable the Board to make a better operational decision by halting the hardware investment. On the other hand, under reciprocal signals that are compatible with a matched technology (i.e., State A or D), the Board would know that it is desirable to expand the investment in the computer project. Therefore, aggregating the Board’s complementary information with that of investor RedRock would enable NewSys to match its operational decision-making to the state of the outside world in a way that maximizes firm value (and stock price).\textsuperscript{187}

\textsuperscript{186} Defining NewSys stock as $S$, this result is calculated as follows: $S|a_1 = S|a_2 = S|r_1 = S|r_2 = 100$. More analytically, $S|b_1 = [\text{Prob} (A | a_1)] \times (200) + [\text{Prob} (B | a_1)] \times (0) = $100, where, by the Bayes’ Rule, $\text{Prob} (A | a_1) = \frac{\text{Prob} (a_1 | A) \times \text{Prob} (A)}{\text{Prob} (a_1)} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ as $\text{Prob} (a_1) = \text{Prob} (A) + \text{Prob} (B) = \frac{1}{2}$. In this example $\text{Prob} (B | b_1), \text{Prob} (C | b_2), \text{Prob} (D | b_2), \text{Prob} (A | r_1), \text{Prob} (C | r_1), \text{Prob} (B | r_2), \text{Prob} (D | r_2)$ are each equal to $\frac{1}{2}$. Because $S|a_2 = S|r_1 = S|r_2$ are also computed following the same procedure, it is clear why both the Board and RedRock expect NewSys stock to be equal to $100$.

\textsuperscript{187} For completeness, we also consider the case in which information is substitute rather than complementary. In this case, assume that RedRock receives an unambiguous signal that the true state is A, so that $\text{Prob} (A | r_1) = 1$ holds. Also assume that the Board still receives the original signal $a_1$, so that $\text{Prob} (A | a) = \frac{1}{2}$. Since RedRock has perfect information on the true state, while the Board only has partial information, RedRock does not need to aggregate the Board’s information to improve its predictions. Under these different circumstances, upon the occurrence of State A and after receiving its informative signal, RedRock will be willing to buy more NewSys stock, as it knows that
B. The Governance of Collaboration

The preceding discussion has shown that collaboration is socially efficient as it can contribute value that neither unilateral decision-making nor the mediated transmission of information through markets can provide. We now turn to the governance of collaboration, drawing on insights from the theory of cooperative games to identify what governance structures can help ensure that both corporate insiders and investors have the right individual incentives to collaborate.

1. Economic Rights

In the language of game theory, shareholder collaboration can be understood as a “cooperative” game. A game is defined as “cooperative” when players form coalitions to achieve their mutual goals. \(^{188}\) Two preliminary conditions determine whether it is worthwhile for the players to form a coalition. First, the players must be able to do better together than alone -- this is the superadditivity condition. \(^{189}\) Second, larger coalitions must be more valuable than smaller ones -- this is the monotonicity condition. \(^{190}\)

Board-shareholder collaboration satisfies both conditions. First, as detailed in the preceding subparts, participatory deliberative mechanisms allow the corporation to capture the added value of insider and shareholder complementary inputs. Assuming that both insiders and shareholders receive a portion of this added value, collaboration thus satisfies superadditivity. Second, the value added by collaboration naturally increases with the number of investors participating in the deliberative process so long as information is complementary. As a result, larger “coalitions” will outperform smaller coalitions and therefore satisfy monotonicity. \(^{191}\)

The theory of cooperative games also teaches that a coalition must be beneficial for each individual player. That is, a player’s incentive to participate requires that a player’s expected gains from participation exceed what the player would receive by playing individually outside the

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\(^{188}\) A cooperative solution involves a stable set of outcomes such that it meets two conditions: “(1) for every outcome outside the [cooperative] set some coalition can achieve an outcome inside the set that is better for all its members and (2) no coalition can achieve an outcome inside the set better for all its members than another outcome inside the set.” See Paul Weirich, Collective Rationality 152 (2009).

\(^{189}\) See Michael Maschler et al., Game Theory 671 (2103).

\(^{190}\) See id. at 660.

\(^{191}\) Notably the shift to re-concentrated equity ownership both enables the implementation of participatory deliberative mechanisms and limits the number of investors who possess the incentives and resources to collaborate with insiders.
As applied to shareholder collaboration, this implies that the participation costs involved by collaboration must be reflected in the expected payoff. For example, collaborating shareholders may incur significant research costs that they will be unwilling to bear unless the share of the gains from collaboration compensates them for such costs.

This constraint raises questions about the appropriate allocation of economic rights – how the value produced by the coalition should be divided among its members. In the corporate context, the existing allocation of economic rights contains two components, which, we argue, are, by their nature, compatible with shareholder-insider collaboration. The first is the equity contract, which allocates gains from the corporation in a manner that is proportionate to investors’ economic interests. The second is equity-based compensation for corporate insiders – officers and directors.

The pro-rata rule embedded in the equity contract is the distinctive feature that makes this contract compatible with shareholder collaboration, thus supporting the view that collaboration is consistent with the existing structure of corporate law. Indeed, the pro-rata rule facilitates efficient collaboration in several ways. First, by ensuring that shareholders participate in the value added proportionately to the size of their equity stake, pro-rata sharing makes it rational for shareholders to engage in the production of complementary information and make a substantial investment prior to collaborating.

Second, by ensuring that investors internalize both the benefits and the costs of engagement, the pro-rata rule anchoring investors’ payoff from collaboration to the size of their equity stakes increases the likelihood that collaborative efforts will be designed to enhance firm value.

Third, the equity contract also reduces (but does not eliminate, as we note below) the concern that collaboration might be a vehicle through which players collude to obtain private benefits. Such concern, for example, undermines the viability of collaboration in the administrative context, where critics worry that collaborative processes might be exploited by powerful industry players and public interest groups to the detriment of the general public interest. In the corporate context, this risk is reduced because the equity contract provides a premium to all shareholders from efficient collaboration (proportionally to their equity stake), levelling the bargaining power of all interested parties in the distribution of the gains arising from deliberation.

Equity-based compensation contracts, which tie executive compensation to equity returns, further ensure the compatibility of collaboration with the existing structure of corporate law, by giving executives their own incentives to participate in value-increasing collaboration. Indeed,

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192 WEIRICH, supra note 188, at 156.
193 Under the assumption that proxy fight costs are, at least in part, indicative of an investor’s research costs, it is worth observing that a campaign ending in a proxy fight has an average cost for the investor of around $ 10.71 million. See Nickolay M. Gantchev, The Costs of Shareholder Activism: Evidence from a Sequential Decision Model, 107 J. Fin. Econ. 610, 612 (2013).
194 Empirical evidence suggests that hedge fund activists, for example, typically acquire substantial stakes in target companies before publicly announcing their presence, allowing them to benefit if their activism increases firm value. See, e.g., Lucian A. Bebchuk, Alon Brav, Robert J. Jackson, Jr., & Wei Jiang, Pre-Disclosure Accumulations by Activist Investors: Evidence and Policy, 39 IOWA J. CORP. L. 1 (2013).
executive compensation structures have evolved over the past thirty years to feature both an increasing proportion of equity-based compensation\(^{196}\) and compensation structures that involve longer time horizons for the realization of increases in stock price.\(^{197}\) Outside directors also receive a substantial proportion of their compensation in the form of equity such as stock options and restricted stock rather than cash.\(^{198}\) By aligning the interests of insiders with those of shareholders, these compensation structures also create an incentive for both to exploit collaboration to maximize firm value. In addition, compensation structures that involve longer time horizons encourage insiders to collaborate to produce long-term value for the firm.

2. Decision-Making Rights

In addition to economic rights, a coalition also involves decision rights -- bargained-for rules that the coalition’s members accept to regulate their individual say in the deliberative process. In the corporate context, efficient collaboration involves questions on the optimal allocation of decision-making power between the board and the engaged shareholders and the relative say of each shareholder.

Given the positive implications of the equity contract for managing collaboration’s economic rights, one might think that the “one share, one vote” rule embedded in that contract should naturally apply to the decisions rights of the collaborative process. We question this conclusion primarily on the basis that shareholders with similar equity stakes may not be equally positioned to produce valuable firm-specific information. For example, a hedge fund that has a private-equity-like investment policy and only invests in a restricted portfolio of companies (as is the case of Value Act, for example)\(^{199}\) might be better positioned to produce complementary information than a hedge fund of similar size with a larger portfolio of companies or a larger but highly diversified index fund such as Vanguard.

Insights from game theory are again useful here. In cooperative games, gains are distributed according to each player’s marginal contribution to the game’s outcome, that is, the incremental value added by that player joining the game.\(^{200}\) Consistent with this approach, we suggest that a party’s say over the collaborative process should be determined according to the marginal contribution of that party’s informational inputs. The marginal contribution criterion is suited to capture the “specificity” of an informational investment in a corporation - as under this criterion specific information that belongs exclusively to one investor is valued more than information that

\(^{196}\) See, e.g., Kahan & Rock, supra note 23 at 884 (describing growing use of stock options).


\(^{198}\) See, e.g., Nitzan Shilon, Putting Directors’ Money Where Their Mouths Are: A New Approach to Improving Corporate Takeover Dynamics, 2017 COLUM. BUS. L. REV. 511, 536 (2017) (observing that “director pay increasingly includes stock [and restricted stock]”).

\(^{199}\) See WALKER, supra note 74, at 17.

\(^{200}\) This is referred to as the “Shapley value” criterion. See MASCHLER ET AL., supra note 189, at 760-761. More technically, in a cooperative game, the possible efficient joint acts (here, the different coalitions of the board and the investors) are distinguished by the order in which the players may form a coalition of all players. Id. The Shapley value then accords each player the average of her marginal contributions to the possible efficient joint acts. Id.
is shared by more investors. Put differently, the marginal contribution criterion is well suited to reflect the value of the sunk costs made by an investor in a given corporation, costs that may not be directly proportional to the size of the investor’s equity stake.201

In practice, the contribution criterion will frequently presume that the board of directors is the “player” with the highest marginal contribution, as it is the decision-maker that consistently provides the most specific informational inputs about firm operations. The jargon of game theorists would therefore term the board the “veto player,” without which the coalition cannot be formed in the first place.202 As a positive matter, this presumption is consistent with the substantial authority corporate law grants to the board of directors in managing the corporate affairs.203 Directors’ access, as insiders, to unique firm-specific private information also normatively supports this presumption. Indeed, the need to aggregate the partial, complementary information of insiders and shareholders does not displace standard asymmetric information issues, but rather stands on top of such issues. Making the board the game’s veto player thus addresses the twin problem of partial and asymmetric information.204

The presumption that the board is the player with the highest marginal contribution should not be absolute, however. Rather, this presumption should be regarded as weaker in situations in which the firm is underperforming. This underperformance signals that investors may be more likely to add potential value through the production of complementary information. Here the collaborative activist strategy of presenting the board and, if need be, its fellow shareholders, with a detailed plan documenting its research into the company provides the connection between the activist’s informational contribution and vesting the activist with an enhanced deliberative role.205 The mechanism for providing an activist with decision-making power is the grant of board seats. The success of the activist in obtaining board representation depends on the quality of the information that it presents. Moreover, both the board and other shareholders play a valuable role in vetting the activist’s contribution because the activist is only in a position to obtain board representation if it comes forward with a credible plan that is likely to receive the support of the other shareholders.

From this perspective, the marginal contribution criterion helps re-conceptualize settlements in which a board voluntarily appoints investors’ representatives in a constructive context as a reflection of a high informational contribution on the investors’ part. For example, in the Microsoft case discussed above,206 the appointment of a Value Act’s representative to the board reveals the

201 We do not propose to use the marginal contribution criterion for economic rights because it would create incentives for investors to overstate their contributions (that is, the value of their complementary information).
202 See MASCHLER ET AL., supra note 189, at 681.
203 See DEL. CODE ANN. tit. 8, § 141(a) (2015); MODEL US. CORP. ACT § 8.01(b) (AM. BAR ASS’N 2010).
204 Note, however, the difference from the managerial-power model’s characterization of the board’s informational advantage. Under that model, the board’s access to private information about the corporate affairs serves to exclude shareholder informational inputs. Under the collaborative model, the board’s position as veto player is instrumental to collaboration and hence to the inclusion, rather than the exclusion, of shareholder inputs.
205 Even skeptics of shareholder activism recognize that credible activists typically approach the issue with an extensive well-researched proposal for change. See, e.g., Martin Lipton, Dealing with Activist Hedge Funds and Other Activist Investors, HARV. L. SCH. FORUM ON CORP. GOV. & FIN. REG., Jan. 26, 2017, https://corpgov.law.harvard.edu/2017/01/26/dealing-with-activist-hedge-funds-and-other-activist-investors/ (observing that “[t]he activist may approach a company with an extensive high-quality analysis of the company’s business that supports the activist’s recommendations”).
206 See supra text accompanying notes 107-109.
importance that the Value Act’s “perception problem” approach had for reforming Microsoft’s business. More generally, the marginal contribution criterion provides a basis for structuring the form of shareholder collaboration and choosing between the broad spectrum of available collaborative schemes. For example, higher marginal contributions are more likely to be reflected in greater decision rights such as through board representation. Conversely, relatively low contributions are more likely to be organized in the form of “non-binding outside” deliberation, such as informal meetings.

IV. THE CHALLENGES OF THE COLLABORATIVE MODEL

The discussion in Part III demonstrates how collaboration can increase firm value and identifies the conditions necessary for collaboration to be effective when both shareholders and insiders act unselfishly. Under this assumption, collaboration is not just socially efficient, but individually efficient for both insiders and collaborating investors. In the real world, however, things can go wrong. Specifically, insiders and shareholders may act opportunistically and either jeopardize the viability of value-increasing collaboration or exploit collaboration to further their own interest at the expense of firm value. Existing principles of corporate law, which operate largely from the premise of insider-shareholder confrontation, emphasize these risks.

In this Part, we identify three basic categories of risks. First, there is the risk that shareholders and insiders will each engage in detrimental opportunistic behaviors, exacerbating a firm’s conflicts of interest at expense of firm value. Second, shareholders that gain access to firm-specific information as a result of the collaborative process may mis-use that information to benefit themselves or to harm the corporation. Third, there is the risk of shareholder-insider collusion that may sacrifice the interests of other shareholders or non-shareholder constituencies. Corporate law currently employs tools such as fiduciary duties and confidentiality agreements to address these concerns, but the tools are ill-suited for a collaborative context and should be rethought.

A. Conflicts of Interest

1. Transparency, Accountability, and Opportunism

Collaboration increases concerns about conflicts of interest in several ways. First, collaboration may reduce the transparency of firm decision-making. Second collaboration may limit the accountability of corporate decision-makers. Third, collaborating shareholders may exploit their influence over corporate affairs opportunistically, pursuing objectives with respect to firm value that differ from those of other shareholders.

The recent increase in negotiated settlements that provide activists with board representation is an example of both reduced transparency and accountability. As discussed above, insiders are increasingly voluntarily appointing one or more activist-designed directors to the board to settle an activist campaign. In many cases, the settlement occurs rapidly, before outside shareholders have taken a position on the activist’s agenda, and in some cases, even before the activist’s role has become public. The selection of the new directors is a matter of negotiation between the
insiders and the activist, displacing the role of outside shareholders in the election process. The terms of the settlement may also limit the ability of the new directors to criticize corporate policy or to vote against board proposals. For these reasons, a number of investors have begun to raise objections to these settlements.

Whether or not they obtain board representation, shareholders may exploit their influence for opportunistic reasons. The most commonly-cited risk of shareholder opportunism is short-termism. Some investors, for example, hedge funds with short-term oriented business models, may benefit from short term operational strategies that sacrifice long term firm value. A number of commentators have argued that “the short-term strategies of many activists are frequently at odds” with the investment horizon of other shareholders. Delaware Supreme Court Justice Leo Strine, for example, has contended that, although some activist hedge funds are committed to long term improvement of their portfolio companies, other pursue business strategies calculated to produce a short term price “pop,” at which point they exit, leaving “buy and hold investors” to bear the consequences.

But shareholders may also have other conflicts that which collaboration may exacerbate. A shareholder may seek to influence a decision at one portfolio company to improve the value of its position at another company. Or shareholders may have what Marcel Kahan and Edward Rock

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209 See., e.g., Kai Haakon Liekefett & Lawrence Elbaum, Think Twice Before Settling with an Activist, LAW360, Dec. 9, 2016 (observing that institutional investors “are now troubled that companies may settle with activists without seeking the input of other shareholders.”); see also John C. Coffee, The Agency Costs of Activism: Information Leakage, Thwarted Majorities, and the Public Morality (Oct. 24, 2017), https://ssrn.com/abstract=3058319 (charging that these settlement agreements disenfranchise other shareholders that may not support the activist’s nominees).

210 Short-termism can be understood, we argue, as a form of shareholder self-dealing that produces a conflict between the interests of the short-term shareholders and shareholders generally. See Martijn K.J. Cremers and Simone M. Sepe, The Shareholder Value of Empowered Boards, 68 STAN. L. REV. 67, 114–16 (2016)

211 See, e.g., In re PLX Tech. Inc. Stockholders’ Litig., No. 9880-VCL, Del. Ch., Sept. 3, 2015, transcript ruling at 27 (citing the concern that “particular types of investors may espouse short-term investment strategies and structure their affairs to benefit economically from those strategies.”); Leo E. Strine, Jr., The Dangers of Denial: The Need for a Clear-Eyed Understanding of the Power and Accountability Structure Established by the Delaware General Corporation Law, 50 WAKE FOREST L. REV. 761, 772 (2015) (arguing that activist shareholder “pressure may logically lead to strategies that sacrifice long-term performance for short-term shareholder wealth.”); Liekefett & Elbaum, supra note 209 (stating that activists “focus on short-term event-driven strategies.”). Shareholder strategies that are often criticized as short term include investment banking interventions like agitating for a sale of the company, causing the issuer to pay out higher cash dividends or take on additional debt, or efforts to cut costs, including research and development.

212 See., e.g., Liekefett & Elbaum, supra note 209.

213 Strine, supra note 39.

214 See. e.g., Marcel Kahan & Edward Rock, Hedge Funds in Corporate Governance and Corporate Control, 155 U. Pa. L. Rev. 1021, 1071 (2007) (noting that “a hedge fund that owns shares in Company A may try to use that position to increase the value of another position, say in Company B, rather than to maximize the share price of Company A.”).

A well-known example involves Perry Corp.’s acquisition of additional voting rights in Mylan Pharmaceuticals in an
have termed “hedging-related conflicts” when they hold positions in different types or classes of securities\textsuperscript{215} or when they hold both long and short positions.\textsuperscript{216} More generally, collaboration creates a risk that collaborating shareholders will use their engagement to further their objectives – financial, political or social – in ways that favor their personal interests and do not align with the interests of their fellow shareholders.\textsuperscript{217} For example, some commentators have criticized large mutual funds for advocating sustainability objectives.\textsuperscript{218}

2. Fiduciary Obligations

The risks raised by shareholders’ conflict of interests have also led to concerns about the conduct of activist representatives who serve on the board of directors. Activist directors raise unique fiduciary issues because they are called to serve both the corporation (that is, the shareholders at large) and their nominating sponsor.\textsuperscript{219} As noted above, the interests of the activist may differ from those of the corporation or the other shareholders.\textsuperscript{220} Although a shareholder has the legal right to act out of self-interest,\textsuperscript{221} once an activist nominee joins the board, it may not further that shareholder’s interests over those of other shareholders.\textsuperscript{222} This has led some commentators to observe that “the concept of activist representatives as board members is fraught with potential for conflict.”\textsuperscript{223}

effort to sway the shareholder vote necessary to approve Mylan’s acquisition of King Pharmaceuticals. Perry held a substantial interest in King, and King shareholders stood to obtain a 61% premium if the merger went through, but the deal required the approval by Mylan’s shareholders and did not appear to be value-enhancing for Mylan. Perry therefore hoped to use its voting power in Mylan to push through a merger that was not value-enhancing for the company. Several commentators have discussed the Mylan-King merger and Perry’s conflict of interest. See, e.g., id., at 1075; Henry T.C. Hu & Bernard Black, The New Vote Buying: Empty Voting and Hidden (Morphable) Ownership, 79 S. CAL. L. REV. 811, 828-29 (2006); Steven Haas, SEC Resolves Empty Voting Action Involving King-Mylan Merger, Harv. L. Sch. Forum on Corp. Gov. & Fin. Reg., Aug. 19, 2009, https://corpgov.law.harvard.edu/2009/08/19/sec-resolves-empty-voting-action-involving-king-mylan-merger/. An analogous phenomenon occurs in the bankruptcy context because hedge funds, which have often purchased deeply discounted debt securities, have interests that differ both from other creditors and from shareholders. See, e.g., Bo J. Howell, Hedge Funds: A New Dimension in Chapter 11 Bankruptcy Proceedings, 7 DePaul Bus. & Comm. L. J. 35, 46 (2008) (observing how such conflicts can create problems when hedge funds serve on a creditors’ committee). Kahan and Rock describe an example involving the planned acquisition of MONY by AXA in 2004. Kahan & Rock, supra note 214 at 1073. See also In re MONY Group, Inc. S’holder Litig., 853 A.2d 661, 668 (Del. Ch. 2004) (describing hedge fund conflicts).\textsuperscript{215} An analogous phenomenon occurs in the bankruptcy context because hedge funds, which have often purchased deeply discounted debt securities, have interests that differ both from other creditors and from shareholders. See, e.g., Bo J. Howell, Hedge Funds: A New Dimension in Chapter 11 Bankruptcy Proceedings, 7 DePaul Bus. & Comm. L. J. 35, 46 (2008) (observing how such conflicts can create problems when hedge funds serve on a creditors’ committee). Kahan and Rock describe an example involving the planned acquisition of MONY by AXA in 2004. Kahan & Rock, supra note 214 at 1073. See also In re MONY Group, Inc. S’holder Litig., 853 A.2d 661, 668 (Del. Ch. 2004) (describing hedge fund conflicts).\textsuperscript{217} See also Iman Anabtawi & Lynn Stout, Fiduciary Duties for Activist Shareholders, 60 Stan. L. Rev. 1255, 1286 (2008) (describing efforts by CalPERS to use its influence as a shareholder to further the union interests in a battle with Safeway over worker benefits).\textsuperscript{211} In 2018 guidance, for example, the Department of Labor warned that “the Department has rejected a construction of ERISA that would render ERISA’s tight limits on the use of plan assets illusory and that would permit plan fiduciaries to expend trust assets to promote myriad public policy preferences.” U.S. Dept. of Labor, Field Assistance Bulletin No. 2018-01, Apr. 23, 2018.\textsuperscript{218} E. Norman Veasey & Christine T. Di Guglielmo, How Many Masters Can a Director Serve? A Look at the Tensions Facing Constituency Directors, 63 BUS. LAW. 761, 773-74 (2008).\textsuperscript{219} Sepe, supra note 55 at 341-60 (providing a detailed law and economics discussion of the matter).\textsuperscript{220} Anabtawi & Stout, supra note 217 at 1273\textsuperscript{221} See, e.g., Kelli A. Alces, Debunking the Corporate Fiduciary Myth, 35 Iowa J. Corp. L. 239, 240 (2009) (describing the fiduciary concept in the corporation).\textsuperscript{222} Liekefett & Elbaum, supra note 209.
Similar issues have arisen in the VC context in relation to the appointment of constituency directors, who may be held liable for breaching their fiduciary duty by favoring the interests of one set of shareholders over another. Corporate law has struggled with the tension between this divergence of interest and classic fiduciary principles, a struggle illustrated by the *Trados* decision, in which the Delaware Chancery Court held that constituency directors who favored the interests of preferred stockholders over those of common stockholders breached their fiduciary duties.

*Trados* illustrates the limits of fiduciary duties in dealing with horizontal conflicts among shareholders. One of us has argued that the principle of party autonomy should operate as a limiting principle to the application of fiduciary duties, and a constituency director should not be viewed as conflicted merely because he or she is acting in the interests of that party. Shareholder collaboration increases the potential for horizontal conflicts and requires corporate law to take a more expansive view of mechanisms designed to allocate shared control without subjecting those mechanisms to the pervasive limits of conventional fiduciary principles.

The concern about conflicts is not limited to constituency directors. When shareholders collaborate with corporate insiders, they are acting simultaneously for their private benefit and for the benefit of the corporation in a manner that is designed to influence corporate decisions. The potential for conflicts has led some commentators to call for a broader scope of fiduciary duties when shareholders collaborate with insiders. Iman Anatwabi and Lynn Stout, for example, argued that activist hedge funds’ increasing control over operational decisions should cause us to reconsider corporate law’s current restrictive approach to shareholders’ fiduciary obligations. Indeed, they argued, a shareholder should owe fiduciary duties whenever it “manages to successfully influence the company’s actions with regard to a particular issue in which that shareholder has a material, personal economic interest.”

This approach is both too broad and too restrictive. Collaboration does not and should not convert shareholders into fiduciaries, thereby imposing upon them the burden of demonstrating that, when they attempt to influence corporate decisions, their actions conform to the strict obligations of disinterestedness and unselfishness. Allowing shareholders to pursue their

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226 *Id.* at 367.
227 Sepe, *supra* note 55.
228 We note that the Delaware legislature endorsed this approach in the context of the corporation opportunity doctrine. See, e.g., Gabriel Rauterberg & Eric Talley, *Contracting out of the Fiduciary Duty of Loyalty: An Empirical Analysis of Corporate Opportunity Waivers*, 117 Colum. L. Rev. 1075 (2017) (empirically analyzing Delaware statutory amendment enabling corporations to opt out of the corporate opportunity doctrine by contract).
229 Anatwabi & Stout, *supra* note 217, at 1295. Notably, the authors focus their proposal primarily on activist hedge funds.
230 The Department of Labor’s effort to impose fiduciary obligations on brokers when they provide investment advice in connection with a retirement plan raises similar issues about the feasibility of subjecting a market participant acting out of financial motives to a legal requirement to act selflessly. *See Chamber of Commerce v. U.S. Dept. of Labor*, 885 F.3d 360 (5th Cir. 2018) (invalidating the DOL fiduciary rule). As one commentator observes: “By nature, any compensation places the interests of the adviser in conflict with those of the client.” Blaine F. Aiken, *Mitigating
personal interests is a fundamental component of corporate law and, it is a critical component of
the incentive structure for effective collaboration. Indeed, the legal requirement of selflessness
associated with the role as fiduciary would chill all types of shareholder engagement and, as a
result, defang the enhanced involvement of shareholders that has transformed corporations from
the time of Berle and Means.

Moreover, premising fiduciary obligations on a shareholder’s ability to influence corporate
decisions is impractical. Shareholders can influence firm decision-making through a range of
mechanisms, from the introduction of shareholder proposals or participation in corporate
governance organizations. Even a small shareholder’s actions may be outcome determinative. In
the Proctor & Gamble proxy contest, for example, the margin of victory was approximately 42,000
votes (out of a total of nearly two billion).\textsuperscript{231} Accordingly, the vote of any shareholder that voted
more than 42,000 shares was, by definition, outcome-determinative and, under a broad definition
of fiduciary such as that proposed by Anabtawi & Stout, such a shareholder would be held to a
duty of loyalty standard in defending its voting decision.

3. Insiders’ Conflicts

Insiders present different types of conflicts. The most obvious is management entrenchment.
Corporate insiders may make value-decreasing decisions that allow them to preserve private
benefits including empire-building, large compensation packages, perks, and the power and
prestige of their positions. Although management entrenchment is not a concern specific to the
collaborative model of the corporation, shareholder collaboration presents distinctive
considerations. First, although shareholder engagement has the potential to reduce entrenchment,
the risk remains that entrenched management might be systematically non-responsive and non-
collaborative. This is because refusing to collaborate is rational for management if it allows firm
insiders to preserve private benefits that they could lose in a deliberative process.\textsuperscript{232}

Second there is also the risk that some collaborating investors may increase managerial moral
hazard by reducing their monitoring or otherwise acquiescing in insider private gains in exchange
for concessions. Those concessions might, in the case of a mutual fund, be governance reforms
such as board refreshment. In the case of an activist hedge fund, the concessions might be the
payment of a cash dividend. Such concessions could be low cost for the insiders, cosmetic, or favor
a hedge fund’s short-term interests, but the point is both that they relieve insiders from the pressure
of investor oversight and that they are likely to take the form of negotiated settlements that are
neither transparent nor approved by all shareholders.

B. Mis-use of Information

\textsuperscript{231} Sharon Terlep & David Benoit, \textit{P&G Concedes Proxy Fight, Adds Nelson Peltz to Its Board}, Wall St. J., Dec. 15,

\textsuperscript{232} This raises the question of whether officers and directors have a fiduciary duty to collaborate with shareholders,
and whether their refusal to do so would be actionable. A recent example of such a refusal was DuPont former CEO
Ellen Kullman’s refusal to meet with Trian, to discuss Trian’s recommendations, or to agree to put Nelson Peltz on
the DuPont board.
Effective collaboration also requires that, in some cases, corporate insiders share firm-specific information with investors. This information-sharing can take various forms. Corporate insiders who meet privately with investors may provide those investors with non-public information during those discussions. Shareholders that gain access to corporate insiders, such as by identifying representatives to serve as directors or board observers, are also likely to receive non-public information about the corporation, its operations and business strategy on an ongoing basis.

Perhaps the most obvious concern raised by information-sharing is that shareholders may use the information to obtain a trading advantage. A variety of empirical studies report that shareholders who meet privately with insiders obtain trading advantages. Although these studies focus primarily on interactions that are oriented toward informing trading decisions, such as meetings with research analysts, shareholder use of information access for the purpose of trading is a serious concern. In addition, a recent article analyzes the specific context of the appointment of activist nominees to a company’s board of directors and finds that such appointments are associated with “information leakage into stock prices.”

The federal securities laws address the mis-use of firm-specific information in two ways. First, insiders who disclose information to shareholders in circumstances in which that information is likely to be used in securities trading violate Regulation Fair Disclosure (Regulation FD). Regulation FD makes it unlawful for corporations and their agents to provide certain kinds of selective disclosure to shareholders. Second, federal law may impose insider trading liability upon both insiders who tip material non-public information to shareholders and the shareholders that trade on that information.

The disclosure of non-public corporate information raises concerns beyond securities trading, however. Shareholders may mis-use information in other ways. A shareholder may also simply be careless or sloppy with the information in a way that harms the interests of the company. One highly publicized example of information mis-use that was not linked to trading involved Bill Ackman, then a director of J.C. Penney, leaking confidential board information to the press.

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236 Shareholders may also use information to obtain a trading advantage in another of their portfolio companies.

237 One paper, for example, finds evidence that hedge funds anticipate analyst reports with high information content and posits that the explanation for this finding is that hedge funds “strategically disclose their private information to sell-side analysts . . . in order to speed the incorporation of private information into stock prices.” See Nathan Swem, Information in Financial Markets: Who Gets it First? (2017-02), https://ssrn.com/abstract=2939519.

These concerns have led to a reluctance by the boards of some companies to share information with shareholders. A company may go so far as to adopt a policy under which insiders do not meet privately with investors. Sturm Ruger cited such a confidentiality policy, for example, as the basis for refusing to meet with large shareholders who were concerned about its firearms manufacturing policies. Ruger’s confidentiality policy states that it is expressly motivated, in part, by the need to comply with Regulation FD.

Of course, shareholders need not meet privately with insiders to collaborate. Shareholders can communicate their information or objectives to companies through letters, emails or public statements, but these efforts are likely to be less effective at persuading insiders to reconsider their positions. Moreover, the refusal of corporate insiders to meet privately with shareholders prevents the deliberation that distinguishes shareholder collaboration from other methods of communication.

Even when insiders meet privately with shareholders, however, they need not share material non-public information. The SEC guidelines explicitly state that Regulation FD does not prevent insiders from engaging privately with shareholders and offer procedural suggestions designed to prevent the accidental disclosure of non-public information such as preapproving topics for meeting and ensuring the presence of legal counsel. For some investors, such as mutual funds, meetings that do not involve the dissemination of non-public information by corporate officials are likely to be optimal for both companies and investors because they both protect companies from potential securities liability and ensure that investors do not give up their ability to trade. Indeed, even without disclosing non-public information, private meetings enable insiders to probe investor preferences, explore the reasons for their positions, as well as provide investors with reasons why their preferences may not be consistent with the company’s best interests.

The situation may differ for hedge funds. Like mutual funds, some hedge funds may prefer to avoid obtaining material non-public information to preserve their ability to trade and may

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241 See, e.g., McCahery, et al., supra note 139 (reporting survey results in which shareholders report their frequent use of private engagements with management and directors and describe them as very important).


243 Hedge fund representatives are well aware that their access to confidential information may limit their ability to trade. For example, Mark Cuban reportedly responded after allegedly receiving confidential information about Mamma.com’s planned PIPE offering, “Well, now I’m screwed. I can’t sell.” Cuban was subsequently charged with insider trading, but a jury determined that he was not liable. See, e.g., Rachelle Younglai & Robert MacMillan, SEC
explicitly request that companies not divulge any non-public information in their private meetings. Moreover, not every hedge fund collaboration requires insiders to disclose non-public information. For example, if a hedge fund is seeking to influence operational decisions, it is likely, at least in the initial stages of collaboration, to be providing rather than seeking information, as evidenced by the funds’ frequent preparation of extensive business plans and proposals. Nonetheless, some collaborations require two-way communication of the private information possessed by both investors and insiders. Because of the hedge fund’s prior investment in developing firm-specific information as well as its likely expertise, engagement is likely to be most productive when the company and the fund can share their partial information to deliberate and aggregate that information. Moreover, when a hedge fund representative serves as a director or board observer, he or she necessarily will become privy to material non-public information.

Insiders have cited the potential for misuse of information as a basis for limiting the access of activist directors to confidential firm information. Some companies have even responded to the appointment of activist directors by forming executive committees of the board to “wall off” an activist director from information or deliberations. Legally, however, activist directors are entitled to equal access to corporate information as their fellow directors in order to fulfill their fiduciary obligations to the company. Activist directors are unlikely to collaborate effectively without such access.

A more complex issue concerns the ability of a hedge fund director or representative to share information with others at his or her fund. Recall that the collaborative model relies on the fact that shareholders supply complementary information due to their information advantages in the market, expertise and differential knowledge base. This information is not contained within the brains of the hedge fund’s directors but located throughout the fund. For the activist director to operate effectively, he or she must be able to evaluate company-specific information in the context of the fund’s knowledge base. This necessarily will involve sharing firm-specific information with other fund representatives.


244 As Trian principal Ed Garden explains, the purpose of Trian’s initial private meetings with management is to explain its analysis. “We want to get their opinion of our work. After all, we’ve done this from the outside and don’t have perfect information. We’d rather be rich than right.” Luis Viceira, Dhruba Kaul & Peter Lee, Trian Partners and DuPont (A), Harv. Bus. School Case Study, Mar. 20, 2017.


247 See, e.g., Hall v. Search Capital Group, Inc., 1996 WL 696921, at *2 (Del. Ch. Nov. 15, 1996) (“When management communicates with the directors on matters of concern to the Board collectively, it cannot pick and choose which directors will receive that information. Absent a governance agreement to the contrary, each director is entitled to receive the same information furnished to his or her fellow board members.”)
Whether such sharing is legally permissible has been the subject of extensive debate. A number of commentaries have claimed that constituency directors navigate in perilous waters in transmitting information to their sponsors. Overall, however, the relevant case law seems to suggest that activist directors are permitted to share firm information with their sponsors. After all, as observed by Vice-Chancellor Travis Laster and Mark Zeberkiewicz, a rule against information sharing would be both unrealistic and potentially detrimental.

Confidentiality agreements can address the concern that an activist director or fund may misuse material non-public information. Indeed, the use of such agreements is common practice when companies find it beneficial to communicate material non-public information to shareholders. For example, after Trian’s unsuccessful proxy contest against DuPont, DuPont officials invited Trian to collaborate with them in developing the structure of DuPont’s subsequent merger with Dow Chemical and split into three independent companies. Because the fact and terms of the merger and the subsequent spin-offs were, at the time of these negotiations, non-public and highly market sensitive, Trian participated pursuant to a confidentiality agreement.

Confidentiality agreements largely address legal and practical concerns over the potential misuse of information. The SEC has explicitly stated that confidentiality agreements are an appropriate way for insiders to limit their potential liability exposure under Regulation FD. Similarly, SEC rule 10b-5-2 prohibits anyone who receives material non-public information pursuant to a confidentiality agreement from trading on that information. Accordingly, the use of a confidentiality agreement clarifies both the fact that investors may not use confidential information from their collaborations with insiders for the purpose of securities trading and the

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248 See Veasey & Guglielmo, supra note 219 at 773-74; Robert Little & Chris Babcock, Walking the High Wire: Guidelines for Board of Director Designees of Private Equity Funds, Activist Stockholders and Other Investors, 44 SEC. REG. & L. REP. 2245, 2246 (2012).
249 See, e.g., Kalisman v. Friedman, Civ. A. No. 8447-VCL, 2013 WL 1668205, *6 (Del. Ch. Apr. 17, 2013) (“When a director serves as the designee of a stockholder on the board, and when it is understood that the director acts as the stockholder’s representative, then the stockholder is generally entitled to the same information as the director.”); Schoon v. Smith, 953 A.2d 196, 208-209 (Del. 2008) (implicitly confirming the position that constituency directors can share information with their sponsors).
250 See J. Travis Laster & M. Zeberkiewicz, The Rights and Duties of Blockholder Directors, 70 BUS. LAW. 33, 49-53, 55 (2015) (“This rule reflects the practical reality that director representatives in both public and private companies routinely share confidential corporate information with colleagues at their affiliated investment funds.”).
251 Id. (arguing that a rule against information sharing would entail both a breach of duty of blockholder directors as corporate insiders and investors’ fiduciaries).
253 See Dow/DuPont Final Proxy Statement and Prospectus, Background of Merger, June 10, 2016, at 72, https://www.sec.gov/Archives/edgar/data/1666700/000119312516618361/d125888d424b3.htm (describing meetings between DuPont executives and four Trian representatives, pursuant to a non-disclosure agreement to discuss, inter alia, “strategic rationale of the product portfolios and the optimal allocation of businesses among the public companies resulting from the potential post-merger separation”).
254 Bishop, et al. also find evidence that the use of confidentiality agreements in negotiated settlements of proxy contests is correlated with less information leakage following the appointment of hedge fund nominated directors to the board. Bishop, et al. supra note 234.
terms on which investors may share information, such as to others at their firm.\textsuperscript{255} For the hedge fund activist, a confidentiality standstill agreement is also likely to be valuable in that it provides an enforceable commitment by the activist to maintain its equity position in the issuer as it seeks to work to effect change.

Confidentiality agreements are not a perfect solution to concerns about the mis-use of corporate information, however. First, insistence on confidentiality agreements as a prerequisite to engagement may chill potentially valuable collaborations. As noted above, many investors have liquidity needs that prevent them from limiting their ability to trade and, as a result, they cannot sign a confidentiality agreement as a condition to meeting privately with insiders. Second, there is a risk that confidentiality agreements will be overused. Although collaborating shareholders should not mis-use information, they should not be held to a higher standard than insiders. Corporate officials are free to trade in their company’s stock with appropriate safeguards such as a requirement that trades be pre-approved or take place only during specified trading windows.\textsuperscript{256} Collaborating investors should also be free to trade on these terms. Along similar lines, Delaware law imposes a duty of confidentiality on directors as part of their duty of loyalty.\textsuperscript{257} That duty requires all directors, including shareholder-nominated directors, to maintain material company information confidential without the need for a confidentiality agreement.\textsuperscript{258} Finally, some commentators have raised the concern that issuers may use confidentiality agreements to “oppress directors,”\textsuperscript{259} although such a concern appears more likely when a hedge fund has obtained board seats through confrontation rather than collaboration.

C. Collusion

\textsuperscript{255} See, e.g., David Katz, \textit{Boardroom Confidentiality Under Focus}, HARV. L. SCH. FORUM ON CORP. GOV. & FIN. REG., (Jan. 23, 2014), https://corpgov.law.harvard.edu/2014/01/23/boardroom-confidentiality-under-focus/ (“Having a detailed and robust board confidentiality policy will serve both to advise directors (and their sponsors, if any) as to their obligations with respect to sensitive board information and to create a board culture that views leaking as unacceptable and dishonorable behavior.”). For example, when Pershing Square named Stephen Fraidin to the board of Valeant as part of a settlement agreement, Fraidin wrote a letter to then-CEO Michael Pearson stating “I hereby undertake, consistent with my fiduciary duties and confidentiality obligations as a Valeant director, to refrain from communicating to anyone (whether to any company in which we have an investment or otherwise) confidential information I learn in my capacity as a director of Valeant; provided that I may communicate such information to members of my firm, Pershing Square.”” Frost, supra note 245.

\textsuperscript{256} Corporate officers and directors are also subject to the short-swings trading limitations of section 16(b). Those restrictions apply equally to activist-nominated directors.


\textsuperscript{258} See, e.g., Malone v. Brincat, 722 A.2d 5, *12 (Del. 1998)). (“The directors’ duty to disclose all available material information in connection with a request for shareholder action must be balanced against its concomitant duty to protect the corporate enterprise, in particular, by keeping certain financial information confidential.”); COMM. ON CORPORATE LAWS, ABA SECTION OF BUS. LAW, \textit{CORPORATE DIRECTOR’S GUIDEBOOK} (5th ed. 2007), reprinted in 62 BUS. LAW. 1479, 1500 (2007) (“A director must keep confidential all matters involving the corporation that have not been disclosed to the public.”).

\textsuperscript{259} See Frost, supra note 245 (quoting director Charles Elson).
Lastly, shareholders and insiders may also use collaboration to engage in collusive behavior - behavior that is contrary to the interests of other shareholders or the public generally. A developing literature, initiated by two papers by Azar, Schmalz and Tecu examining the airline and banking industries respectively, explores the possibility that institutional investors may collude to reduce competition. The argument in these papers, which focus primarily on mutual funds, is that common ownership creates an incentive for investors to favor anti-competitive behavior to generate monopolistic profits. Notably, these profits have the potential to benefit both insiders and investors. The authors support their theory by showing that the airline and banking industries have experienced increased ownership concentration and, at the same time, reduced competition. Although the literature is too extensive to examine here, and we note that the empirical results of the Azar et al. research have been challenged on a variety of bases, the bottom line is that collusion between insiders and investors is possible and the novel collaborative patterns that we describe in this article may offer an important vehicle for collusion.

CONCLUSION

Both the prevailing models of the public corporation frame the board-shareholder relationship in terms of a competitive struggle. On this shared premise, the “battle” between defendants of each model focuses on the question of the appropriate allocation of power between corporate insiders and shareholders to reduce the risk of managerial moral hazard.

This Article showed that the reality of the insider-shareholder dynamic has turned increasingly collaborative. In a coherent, if unheralded, effort, insiders and newly empowered shareholders are joining forces to promote deliberative mechanisms for increasing firm value through a variety of means that include shareholder engagement, private initiatives to develop shared governance principles, and “constructivist” activism. Despite these dramatic transformations, corporate law scholars have paid limited attention to shareholder collaboration. This Article provided a first attempt at remedying this gap, exploring the implications of the rise of shareholder collaboration.

Descriptively, the rise of collaboration in the public corporation is not a casual occurrence but can be traced back to the venture capital context, where founders and investors have long developed structures to promote joint decision-making. Changes in the public company context have expanded the role of collaboration. Under these changes, the normative task is no longer only to determine the appropriate balance of shareholder and manager power. Rather, it is also to determine the best way to aggregate the partial and complementary information that insiders and shareholders are likely to possess in a world of complex investments and re-concentrated equity ownership. As this Article has shown, collaboration offers a means to that end that neither unilateral decision-making nor the mediated transmission of information through markets can provide.


Policy-wise, the collaborative model has several implications. By enhancing shareholder influence over firm decisions, collaboration creates the potential for conflicts of interest, the risk that shareholders may misuse firm-specific information and the possibility of collusive behavior. Existing corporate law tools such as fiduciary duties and confidentiality agreements are poorly designed to address these concerns without sacrificing the potential value of collaboration. Consequently, the growing importance of collaboration requires rethinking and adapting several existing principles of corporate law. This Article begins the task; we hope that its observations can provide a starting point for much needed future research on the new collaborative model of the public corporation.