

The Social Cost of Investor Distraction: Evidence from Institutional Cross-Blockholding

Forthcoming in PLOS ONE

Vivek Astvansh

Kelley School of Business, Indiana University

astvansh@iu.edu

Tao Chen

Nanyang Business School

Nanyang Technological University

jtchen@ntu.edu.sg

Jimmy Chengyuan Qu

Nanyang Business School

Nanyang Technological University

chengyua001@e.ntu.edu.sg

Abstract

Institutional investors routinely hold blocks of stocks in multiple firms within an industry. While such cross-blockholding boosts a portfolio firm's financial performance, could it distract investors from attending to firm activities in a nonfinancial domain, hurting its performance in that domain? The authors answer this question in the context of corporate social responsibility (CSR). They first document that cross-held firms perform worse on social responsibility than non-cross-held firms do. A quasi-natural experiment based on mergers between institutional blockholders helps establish causality. Next and as their primary contribution, the authors demonstrate investor distraction as the mechanism. Using two proxies of distraction—EDGAR search volume and shareholder proposals on socially responsible investment—they show that the negative impact of institutional cross-blockholding on CSR mainly comes from investor distraction when investors hold multiple blocks simultaneously. By highlighting the social cost of institutional cross-blockholding, this article finds a distraction effect of institutional cross-ownership, which extends our understanding of this unique ownership structure.

Keywords: Institutional Cross-blockholding, Ownership Structure; Social Cost; Corporate Social Responsibility; Investor Distraction

1 Introduction

Institutional cross-blockholding¹—a special ownership structure in which institutional investors simultaneously hold blocks in multiple firms in the same industry—has been extensively researched in recent years (Azar, Schmalz, and Tecu 2018, Edmans, Levit, and Reilly 2019, Kang, Luo, and Na 2018). This research has shown that institutional cross-blockholding affects a portfolio firm’s financial decisions, which in turn impacts managers’ and shareholders’ interests (Azar, Schmalz, and Tecu 2018, Kang, Luo, and Na 2018, Park et al. 2019).

In comparison, academics and practitioners know little about whether, and if yes, how (that is, positively or negatively) institutional cross-blockholding affects the interests of *nonfinancial* stakeholders (Cheng, Wang, and Wang 2021; Dai and Qiu 2020; Lahouel et al. 2022; Lu et al. 2021; Pfajfar et al. 2022). In addition, they lack empirical evidence on why such an effect may exist—that is, the underlying mechanism (Kang, Luo, and Na 2018). This article attempts to provide this knowledge by first showing that institutional cross-blockholding stifles a portfolio firm’s performance on corporate social responsibility (CSR)—hereafter, corporate social performance (CSP). However, the primary contribution of our research is in empirically demonstrating the *distraction* mechanism—that is, cross-blockholding distracts investors from attending to a portfolio firm’s CSR. The distraction in turn stifles the firm’s performance in the social domain.²

¹The terms “common ownership”, “institutional cross-blockholding”, “institutional cross-ownership” are interchangeably used in extant literature. To emphasize the effect of blockholders and distinguish common ownership in the same industry from that along the supply chain (Freeman 2016) or unrelated industries (Edmans, Levit, and Reilly 2019, Gilje, Gormley, and Levit 2020), we use the term “institutional cross-blockholding” throughout this paper.

² Two contemporaneous works related to ours provide mixed findings. Dai and Qiu (2020) find that common ownership increases portfolio firms’ CSR due to the strategical benefits of CSR. However, Cheng, Wang, and Wang (2021) find a negative impact of common institutional ownership on firms’ CSP due to the anti-competitive effect of common ownership. Our paper differs from these works in important ways. Different from Dai and Qiu (2020) who use portfolio weight from Backus, Conlon, and Sinkinson (2021) to measure the extent of common ownership, we follow He and Huang (2017) and provide a comprehensive empirical evidence on how institutional cross-blockholding decreases portfolio firms’ CSP. Our work is different from Cheng, Wang, and Wang’s (2021) in several ways. First, we are different in theoretical contributions. Since the anti-competitive effect of common ownership has been questioned by recent works (e.g., Koch, Panayides, and Thomas 2021, Lewellen and Lowry 2021), Cheng, Wang, and Wang’s (2021) argument seems inconsistent with the mainstream literature. Differently, we try to explore the distraction channel through which common ownership affects CSR, which enriches our understanding of how this specific ownership structure works. Second, in empirical design, our focus is on the plausible natural experiment based on financial institutions, while Cheng, Wang, and Wang (2021) focus more on multivariate OLS analysis.

Our theoretical premise is as follows. Prior research has documented that institutional investors prefer to hold stocks of socially responsible firms (Hong and Kacperczyk 2009, Riedl and Smeets 2017) and engage in the portfolio firms' CSR activities (Chen, Dong, and Lin 2020, Dimson, Karakaş, and Li 2015, Dyck et al. 2019). Invoking this logic, we expect institutional cross-blockholding to influence portfolio firms' CSP in two opposite ways.

On the one hand, institutional cross-blockholding is expected to increase firms' CSP for several reasons. First, competing firms with shared blockholders have the motivation to do more CSR activities in order to keep the institutional cross-blockholders because an exit of shared investors is a bad signal for firms (Edmans, Levit, and Reilly 2019). Second, investors can get more information advantages and governance experience when holding simultaneously stocks of firms in the same industry (Kang, Luo, and Na 2018). Because institutional investors attach importance to firms' CSP (Chen, Dong, and Lin 2020), institutional cross-blockholders should be more efficient in engaging with firms' CSR activities. In addition, if institutional cross-blockholding increases portfolio firms' market share and alleviates their outside pressure on earnings (Azar, Schmalz, and Tecu 2018, He and Huang 2017), firms may have more resources to engage in CSR activities, thus increasing their CSP.

On the other hand, because investors' attention is a limited resource (Kahneman and Tversky 1979, Shleifer 2012), it is less feasible for investors to keep the same effort that they put into their portfolio firms when the portfolio size becomes larger (Gilje, Gormley, and Levit 2020). In this case, institutional cross-blockholding might cause a drop in firms' CSP because distracted investors engage less in firms' CSR activities (Chen, Dong, and Lin 2020). Moreover, holding multiple firms may also change investors' allocation of attention across corporate decisions. Because defining corporate social activities and measuring CSP are not straightforward, the

benefits of CSR are less tangible to investors in the short term (Turker 2009, Waddock and Graves 1997). As such, under competition among other peer investors (Wahal and Wang 2011), institutional investors may allocate more attention to corporate decisions that directly affect their portfolio performance and focus less on firms' CSP. Based on these arguments, if holding multiple blocks distracts investors' attention to CSR activities, portfolio firms are expected to perform worse in CSR under institutional cross-blockholding.

Using a comprehensive sample of U.S. listed firms during the period of 1995-2014, we examine the impact of cross-blockholding on firms' CSP (measured using KLD database). Our multivariate ordinary least squares (OLS) regression reports a negative relation between cross-blockholding and firms' CSP, which supports the distraction hypothesis. In terms of economic magnitude, firms being cross held, on average, show a .16 decrease in the overall CSP score in the following year. Next, we conduct a variety of robustness tests across different sets of fixed effects, measures of cross-blockholding, measures of CSP, and calculation methods of CSP scores. Using the sample excluding the 2008 financial crisis, we alleviate the concern that our results may be driven by firms' response to the financial crisis (Lewellen and Lowry 2021). We replicate our finding using a sample of firms available in the Sustainalytics database (in place of KLD database).³ Our results stay robust in all these tests.

To alleviate endogeneity problems, we follow He and Huang (2017), and use a quasi-natural experiment based on exogenous shocks from mergers between institutional blockholders (Lewellen and Lowry 2021). Because mergers between institutional blockholders are less likely to be driven by their portfolio firms and can only affect portfolio firms through their blockholders, this experiment provides an ideal framework to establish a causal link between institutional cross-

³ According to prior literature, ESG ratings from different rating agencies show low correlation, which makes the data validity questionable (Berg, Kölbl, and Rigobon, Chatterji et al. 2016, Liang and Renneboog 2020).

blockholding and firms' CSP. A difference-in-differences (DID) analysis reports a significantly lower CSP in post-merger years for firms affected by investor mergers than their unaffected peers. This evidence establishes a causal link between institutional cross-blockholding and CSR. Our DID results stays when we adopt the propensity score matching to construct matched samples before the DID analysis (PSM-DID) on alternate sets of matching variables. By decomposing CSP into CSR strengths and concerns, we observe that institutional cross-blockholding affects firms' CSP mainly by increasing CSR concerns. This finding further supports the distraction channel (Chen, Dong, and Lin 2020). Next, we test the effect on five dimensions of CSP. Results suggest that institutional cross-blockholding reduces significantly firms' performance in workforce diversity, employee relations, and product quality dimensions, but not in community and environment dimensions. These results are consistent with the intuition that investors are likely to be more punitive if firms perform worse in community and environment dimensions (Krueger et al. 2020). Consequently, blockholding does not impact CSP on these two dimensions but hurts CSP on the other three dimensions.

To examine the distraction channel through which institutional cross-blockholding affects firms' CSP, we follow prior literature and conduct the following tests. First, we use EDGAR search volume as a direct measure of investor attention (Chen, Kelly, and Wu 2020, Drake, Roulstone, and Thornock 2015, Ryans 2017). In this test, we first find that firms under greater institutional cross-blockholding receive less attention from investors after blockholder mergers and that firms with less attention before blockholder mergers decrease more in CSP under greater institutional cross-blockholding. Second, by investigating shareholder proposals on socially responsible investment (SRI), we find a significant reduction in the number and percentage of SRI proposals for firms under institutional cross-blockholding. Because shareholder proposals reflect

shareholders' intention (Chen, Dong, and Lin 2020, Gilje, Gormley, and Levit 2020, McCahery, Sautner, and Starks 2016), this evidence suggests investors' decreased attention to portfolio firms' CSR decisions. Again, this finding supports the distraction hypothesis.

This article contributes to the literature in several ways. First, it adds to the literature on institutional cross-blockholding by showing its inadvertent impairment on firms' CSP. Based on the argument that institutional cross-blockholding strengthens investors' coordinating and monitoring power, prior research has documented a positive impact of institutional cross-blockholding on portfolio firms by increasing their market shares (He and Huang 2017), improving corporate governance (He, Huang, and Zhao 2019), facilitating financial accessibility (Chen, Li, and Ng 2018), decreasing financial reporting opacity (Ramalingegowda, Utke, and Yu 2021), and enhancing technology spillover (Kostovetsky and Manconi 2017). By showing that institutional cross-blockholding decreases firms' CSP through the distraction channel, this article reveals an inadvertent impairment of institutional cross-ownership on the interests of *nonfinancial* stakeholders. Under the prevalence of common ownership (Backus, Conlon, and Sinkinson 2021), policymakers should not overlook the potential cost of institutional cross-ownership through investor distraction.⁴

Second, this article extends the literature on shareholder distraction (Baker and Wurgler 2013). Using stock return shocks from other industries to measure shareholder distraction, prior research has documented that shareholder distraction leads to greater managerial opportunism (Kempf, Manconi, and Spalt 2017), lower diligence of directors (Liu et al. 2020), and less engagement in

⁴ Our article is also related to a broader topic on institutional investors' effect on firms' social engagement (Liang and Renneboog 2020). Because of clients' preference for sustainable and responsible investment, institutional investors have to pay more attention to ESG projects (e.g., Chen, Dong, and Lin 2020, Dimson, Karakaş, and Li 2015, Dyck et al. 2019, Krueger et al. 2020). Our work goes further by showing a reduction in firms' social engagement when investors are distracted due to institutional cross-blockholding.

CSR (Chen, Dong, and Lin 2020). By linking the literature on institutional ownership structure and shareholder distraction, this article complements Gilje, Gormley, and Levit (2020)'s theory on attention allocation under common ownership in terms of portfolio firms' CSP.

Third, this article contributes to CSR literature by providing a novel determinant of CSP (e.g., Ho, Oh, and Shapiro 2022; Risi and Wickert 2017; Wickert 2021). Driven by different motivations,⁵ firms' social performance is determined by firm-level characteristics such as financial conditions, strategic and reputation concerns, managerial opportunism, employee relationship, shareholder engagement, supply-chain relationship, board structure, and CEO personalities (e.g., Cheng, Hong, and Shue 2013, Cronqvist and Yu 2017, Dai, Liang, and Ng 2020, Dimson, Karakaş, and Li 2015, Flammer 2015a, Hong, Kubik, and Scheinkman 2012, Masulis and Reza 2015), external factors such as media and local government (e.g., Di Giuli and Kostovetsky 2014, Hong and Kostovetsky 2012), industry-level characteristics such as product market competition (Cao, Liang, and Zhan 2019, Flammer 2015b), and macro-level characteristics including political, culture, labor, and legislation systems (Ioannou and Serafeim 2012, Liang and Renneboog 2017). Built on the finding that institutional investors increase CSP (Chen, Dong, and Lin 2020, Jo and Harjoto 2011), this article extends academics' and practitioners' understanding of how specific ownership structure affects CSR under the same institutional ownership level.

The remainder of this article is organized as follows. Section 2 describes the sample selection and defines our variables. Section 3 reports the results from a multivariate OLS regression. Section 4 presents the results from a quasi-natural experiment based on mergers between financial institutions. Section 5 provides the results of mechanism tests. Section 6 concludes.

2 Sample selection and variable construction

⁵ Firms' social engagement can be categorized as (1) strategic CSR; (2) not-for-profit CSR; and (3) CSR resulting from agency problems (Liang and Renneboog 2020).

2.1 The Sample

The sample comes from multiple sources. Firm-level financial data come from Standard & Poor's Compustat-Capital IQ North America Fundamentals Annual (for brevity, Compustat) database. CSP data are from MSCI ESG KLD STATS database.⁶ Institutional holdings data mainly come from Thomson Reuters' Institutional (13F) Holding database. We supplement this database with FactSet's Institutional Holdings database after June 2013.⁷ Analyst coverage data come from Institutional Brokers Estimate System (IB/E/S) database. EDGAR search volume (ESV) data are from James Ryans' EDGAR Server Log File (Ryans 2017). CEO compensation data are from Standard & Poor's Compustat – Capital IQ Execucomp database. Shareholder proposal data are from Institutional Shareholder Services' (ISS') Shareholder Proposal database.

Observations that satisfies the following criteria were included. (1) Book equity must be positive. (2) Each firm should at least observations for at least two consecutive years. (3) All regressors have values. (4) Firms are not in financial (SIC code 6000-6999) or utility (SIC codes 4900-4999) industries.

The OLS regression uses the estimation sample of 13,112 firm-year observations during 1995-2014. The DID regression uses 3,778 observations during 1995-2012 from 36 effective mergers that are included in the quasi-natural experiment. We alleviate the potential disturbance from outliers by Winsorizing values of all the continuous variables at the 1st and the 99th percentiles.

2.2 Measures of CSP

Firms' CSP is measured by the CSR scores from the KLD database (Chen, Dong, and Lin 2020, Ferrell, Liang, and Renneboog 2016, Servaes and Tamayo 2013).⁸ Following Chen, Dong,

⁶ We also use data from Sustainalytics database in the robustness tests.

⁷ Excluding observations after 2013 does not affect our main results.

⁸ CSP can be reflected from dimensions including community, workforce diversity, employee relations, environment

and Lin (2020), our CSP measure includes dimensions of community, workforce diversity, employee relations, environment impact, and product quality.⁹ The CSR score on each dimension is the firm's score on strengths on that dimension minus its score on concerns on that dimension (Chen, Dong, and Lin 2020). The overall CSR score is the sum of the CSR scores on the five dimensions. Similarly, the overall CSR strength score (overall CSR concerns score) is the sum of strengths scores (concerns scores) on all dimensions. Lastly, we also use overall CSR score (*CSR*), overall CSR strengths score (*STR*), and overall CSR concerns (*CON*) score, and five CSR dimension scores—Community (*COM*), Workforce diversity (*DIV*), Employee relations (*EMP*), Environment impact (*ENV*), and Product quality (*PRO*). Appendix Table A1 defines the variables.

Following He and Huang (2017), the overall CSR score at $t+1$ (CSR_{t+1}) in the multivariate OLS analysis and the 2-year average overall CSR score ($AvgCSR_{i,[t+1, t+2]}$) serve as the outcome measures in the quasi-natural experiment. Similar to prior works (He and Huang 2017), we use $AvgCSR_{i,[t+1, t+2]}$ in the quasi-natural experiment for the following reasons. First, since CSR is a long-term corporate policy and ESG ratings are not always updated in time (Liang and Renneboog 2020), the average performance in the following years can provide stronger evidence under the effect of institutional cross-blockholding. Second, due to the concern that more noise will be introduced to CSR measures if a longer period of CSR is implemented. Accordingly, we use a 2-year average of CSP in this analysis as a tradeoff to reflect the effect of institutional cross-blockholding and avoid the potential contamination on CSP by using a longer CSR horizon. Other CSR measures in the main analysis are constructed in a similar way. In the robustness tests, we

impact, product quality, human rights, corporate governance, and whether firms' business related to alcohol, gaming, firearms, military contracting, nuclear, or tobacco (Chen, Dong, and Lin 2020, Krueger 2015, Servaes and Tamayo 2013).

⁹ Corporate governance dimension is dropped because of (1) our focus on non-financial stakeholders' interests (Chen, Dong, and Lin 2020), (2) the difference between corporate governance and other issue areas in KLD (Hong, Kubik, and Scheinkman 2012), and (3) doubts on the validity of corporate governance measured in KLD (Krüger 2015).

also use CSR with different horizons as well as CSR score measured by Sustainalytics database as alternative dependent variables.

2.3 Measures of institutional cross-blockholding

To measure institutional cross-blockholding, we first extract the quarterly data of institutional investor holdings from Thomson Reuters Institutional (13F) Holdings (adjusted by FactSet Institutional Holdings databases for observations after June 2013). The U.S. Securities and Exchange Commission considers a threshold of 5% stock ownership for any investor to have a material impact in a firm's governance (<https://www.sec.gov/news/press-release/2022-22>). Therefore, we exclude observations if investors hold shares less than 5% of the firms' total outstanding. Following prior research (He and Huang 2017, He, Huang, and Zhao 2019), we use five measures of institutional cross-blockholding based on Fama-French 48 Industry Classification (Fama and French 1997). *CROSS_DUM* is an indicator that equals 1 if the firm is cross-blockheld by any institutional investors in any quarter in a fiscal year and 0 otherwise. *AVGNUM_Q* is the number of peer firms in the same industry whose stock is held by the same blockholders on a quarterly basis. *CROSS_OWN_Q* is the percentage of shares held by cross-blockholders in each quarter. This measure reflects the total influence that cross-blockholders can exert on firms. Next, we average the quarterly variables *AVGNUM_Q*, *CROSS_OWN_Q* over the fiscal year to have *AVGNUM*, *CROSS_OWN* in each firm-year. *NUMCROSS* is the number of unique cross-blockholders in each firm-year. *NUMCONNECTED* captures the number of firms (i.e., in the same industry) that have any common blockholders with the focal firm in the focal year. Although calculated from different aspects of institutional cross-blockholding, the five measures are highly correlated in an unreported correlation matrix. Following He and Huang (2017), we use *CROSS_DUM* as the independent variable in most of our OLS regressions and include other

measures to test robustness.

2.4 Control variables

Following prior research (Chen, Dong, and Lin 2020, Deng, Kang, and Low 2013, He and Huang 2017, He, Huang, and Zhao 2019, Servaes and Tamayo 2013), we include several control variables to control for firm characteristics that may affect both corporate social responsibility and institutional cross-blockholding (Table A1).

3 Multivariate OLS analysis

3.1 Summary statistics of multivariate OLS sample

As Table 1 shows, the summary statistics of the variables are similar to those reported in prior research (Chen, Dong, and Lin 2020, He and Huang 2017).

[Insert Table 1 about here.]

Appendix Table A2 presents the means of institutional cross-blockholding measures by years over the sample period during 1995-2014. As Table A2 reports, all measures of institutional cross-blockholding show an increasing trend during the sample period. This trend is consistent with findings in the extant literature (Koch, Panayides, and Thomas 2021).¹⁰

3.2 Baseline regressions

Following related literature (Chen, Dong, and Lin 2020, He and Huang 2017, Servaes and Tamayo 2013), the following specification examines the relation between institutional cross-blockholding and firms' CSP:

$$CSPMeasure_{i,t+1} = \alpha + \beta CrossMeasure_{i,t} + \gamma Controls_{i,t} + FEs + \varepsilon_{i,t} \quad (1)$$

¹⁰ For example, the percentage of cross-held firms rises from 52.44% in 1995 to 81.54% in 2014, and the mean of total cross-ownership increases nearly three times from 0.06 to 0.15. Since the sample only contains big firms covered in the KLD database, the figures on the average U.S. listed firms might be lower, but the trend should hold.

where *CSPMeasure* denotes measures on CSP. *CrossMeasure* denotes one of the five proxies on institutional cross-blockholding in each firm-year. In the base regressions, the dependent variable is the overall CSP at $t + 1$ (CSR_{t+1}), and the independent variable, *CROSS_DUM*, is an indicator that equals 1 if the firm is cross held in any quarter of the year. The control variables are those described in Section 2.4. *FE* denotes the fixed effects. To control for time-, firm-, industry-, and location-invariant factors as well as all industry-level factors, we include firm- and year-FEs, firm- and industry×year-FEs, as well as firm-, industry×year-, and county-FEs in the regressions. Industries are classified by Fama-French 48 industries (Fama and French 1997). The information of headquarter location (FIPS code) comes from Software Repository for Accounting and Finance (SRAF).¹¹ Standard errors are adjusted for heteroskedasticity and clustered by firm. Table 2 reports the base results.¹²

[Insert Table 2 about here.]

As Table 2 reports, the coefficient estimates of *CROSS_DUM*, ranging from $-.1724$ to $-.1560$, are negative and significant at 1% level across alternate model specifications (simple or full model) and different sets of FEs (firm and year; firm and industry×year; and firm, industry×year, and county). In terms of economic magnitude, the average coefficient on *CROSS_DUM* is about $-.1643$, meaning that firms cross-held by blockholders have .1643 lower scores in future CSP than non-cross-held firms. Given the sample standard deviation of *CSR* (1.9680), the coefficient estimate of *CROSS_DUM* is statistically significant and economically meaningful. Moreover, the coefficient estimates on *CROSS_DUM* are not significantly different when county-FEs are included, meaning that location-invariant factors do not affect the results. To capture firm-, time-,

¹¹Using location information from COMPUSTAT is misleading because COMPUSTAT only gives firms' newest location in its county variable.

¹² Since location information is missing in some observations, fewer observations are used in regressions with firm, industry×year, and county-fixed effects.

and industry-invariant factors and to alleviate problems mentioned in Deng, Kang, and Low (2013),¹³ we implement firm- and industry×year-FEes in the following regressions.¹⁴

Consistent with prior literature (Feldstein and Green 1983, Jensen 1986, Jensen and Meckling 1976), firms with higher profit (*EBITDA*) and higher retained earnings (*RETA*) perform better on CSR. Further, coefficients on *INSTO* show a significantly positive relation between institutional ownership and CSP, which supports the engaging role of institutional ownership on firms' CSP (Chen, Dong, and Lin 2020, Dyck et al. 2019, Krueger et al. 2020). The effect of institutional investors on CSR is further supported by the positively significant coefficient on the breadth of institutional ownership (*LN_NUM_INST*). Overall, this evidence shows that, at the same level of institutional ownership, institutional cross-blockholding is negatively associated with firms' future CSP, which supports the distraction hypothesis.

3.3 Robustness tests

First, we use alternate measures of institutional cross-ownership as independent variables. Second, we use CSR measures with different horizons (CSP at $t+2$ (*CSR_{t+2}*), 2-year average of CSR (*AvgCSR_[t+1,t+2]*), and 3-year average of CSR (*AvgCSR_[t+1,t+3]*)) as dependent variables. Third, since the varying number of categories in KLD over the years may result in potential bias, we further use an adjusted CSR score (*AdjCSR*) based on adjusted weights of CSR dimensions as Deng, Kang, and Low (2013) to test if the baseline results are sensitive to the different calculation method of CSR score. Fourth, we exclude observations during the 2008 financial crisis to alleviate the concern that our results are driven by firms' responses to the financial crisis (Lewellen and

¹³ Deng, Kang, and Low (2013) mention that using the CSR score directly is problematic since the number of categories is different across years.

¹⁴ The results are similar when we use other sets of fixed effects (firm and year fixed effects and firm, industry×year, and county fixed effects).

Lowry 2021). Fifth, due to the divergence of ESG rating agencies, we use the CSP measured by another ESG rating agency, Sustanalytics database, as our dependent variable to examine whether the baseline results only exist in the KLD data (Berg, Kölbel, and Rigobon, Chatterji et al. 2016, Liang and Renneboog 2020) (see Table 3).

[Insert Table 3 about here.]

3.3.1 *Alternate measures of institutional cross-ownership*

Following He and Huang (2017), we use alternate measures of institutional cross-ownership as independent variables. These measures include: (1) the average number of peers (i.e., firms in the focal firm's industry) whose stock are held by the same blockholders (*AVGNUM*); (2) the percentage of shares held by cross-blockholders (*CROSS_OWN*); (3) the number of unique cross-blockholders (*NUMCROSS*); and (4) the number of peer firms that have at least one blockholder that the focal firm also has (*NUMCONNECT*).

Panel A of Table 3 reports that all the coefficients of interest are negative and highly significant when using alternate measures of institutional cross-blockholding in both simple and full models. Different from *CROSS_DUM*, the alternate measures, which are all continuous, provide more information on the economic significance of institutional cross-blockholding on firms' CSP. For example, Column (1) shows that a one-standard-deviation increase in *AVGNUM* is associated with a $.02 \times 4.49 = .09$ decrease in *CSR*. Compared to the sample mean of *CSR*, this evidence shows that the coefficient on *AVGNUM* is significant statistically and economically. Other measures in Panel A show similar results.

3.3.2 *Different horizons of CSR*

Further, four variables examine whether the base results are sensitive to the horizon of CSR: (1) CSP in $t + 2$ (*CSR_{t+2}*); (2) two-year average of CSP from $t + 1$ to $t + 2$ (*AvgCSR_[t+1,t+2]*); and (4)

three-year average of CSP from $t + 1$ to $t + 3$ ($AvgCSR_{[t+1,t+3]}$). Panel B of Table 3 reports the results. Like the base results, the coefficient estimates of interest are negative and highly significant across all the dependent measures, meaning that base results are not sensitive to the horizon of CSP.

3.3.3 Alternate calculation

Our base results may be sensitive to how one calculates CSR score. To alleviate this concern, we re-calculate the CSR score based on the adjusted weight (Deng, Kang, and Low 2013) and create $AdjCSR$ as our dependent measure. Panel C of Table 3 reports that the coefficients of interest are negative and significant in all regressions. Compared to the mean $AdjCSR$ of $-.0830$, the coefficients of interest are significant statistically and economically. We thus conclude that the calculation methods of CSR do not affect the base results.

3.3.4 Excluding observations in financial crisis

To address the concern that the effect of institutional cross-blockholding on firms' CSP is caused by firms' different responses to the financial crisis (Lewellen and Lowry 2021), we exclude observations during the 2008 financial crises to avoid the potential intervention of financial crisis. Excluding those observations reduces the sample size to 10,890. Panel D of Table 3 shows that the coefficients of interest are negative and significant across different specifications. In terms of magnitude, the coefficients of interest are close to those estimated in the base regressions. We conclude that the financial crisis likely does not drive our results.

3.3.5 CSP measure from Sustainalytics

CSR scores vary by rating agencies (Berg, Kölbel, and Rigobon, Chatterji et al. 2016). Our results may thus be sensitive to our use of KLD database. We test the sensitivity by using CSP from Sustainalytics database. While the KLD database focuses on U.S. listed firms, Sustainalytics

database covers global firms, but for a shorter set of years than KLD. Due to the difference in firm coverage, only 2,144 observations in our sample are linked to the Sustainalytics database. In spite of limited observations, we still find a negative and significant relation between institutional cross-blockholding and firms' CSP. Panel E of Table 3 shows the results when CSR is measured as the Social Score in Sustainalytics database. This evidence is robust to alternate measures of institutional cross-blockholding (Columns 1 through 5) and the measure of CSP (Column 7).

4 Identification: A quasi-natural experiment

4.1 Mergers between financial institutions

As He and Huang (2017) suggested, mergers between institutional blockholders provide an ideal quasi-natural experiment because the mergers (1) are less likely to be affected by their portfolio firms' decisions (relevance condition),¹⁵ and (2) can affect only portfolio firms through affected institutional investors (exclusion restriction). Following He and Huang (2017), we start from merger information and blockholders' holding information in the Securities Data Company (SDC) database and Thomson Reuters Institutional (13F) Holdings database. According to He and Huang (2017), we require mergers to satisfy the following four criteria. (1) Both acquirer and target in the merger must be located in the United States and recorded in the institutional holdings sample. (2) The adjusted institutional holdings sample stops recording the filings of the target institutional blockholders in the same year as the merger's announcement date. (3) The completion period of mergers should not exceed one year. (4) The target and acquirer held firms in overlapped industry at one quarter before the merger. After identifying the list of mergers, we link affected portfolio firms to financial data from COMPUSTAT.

¹⁵ As He and Huang (2017) mention, the majority of mergers between financial institutions come from financial regulations (e.g., the Riegle–Neal Interstate Banking and Branching Efficiency Act of 1994, and the Financial Services Modernization Act of 1999).

To make the analysis comparable to related research on CSR, firms in financial (SIC code: 6000-6999) and utility (SIC code: 4900-4999) industries are excluded. Observations with missing data are excluded as well. If no firms are from a merger because of missing variables, the merger will be dropped out of our sample. Portfolio firms that become cross-held after mergers are identified as treated firms. Other portfolio firms of related blockholders are identified as control firms. Finally, 3,778 observations during 1995-2012 from 36 effective mergers are included in the quasi-natural experiment.¹⁶

[Table 4 insert about here.]

Table 4 reports the summary statistics of variables this analysis uses. Figure 1 shows the number of effective mergers between institutional blockholders each year during 1995-2012.

[Figure 1 insert about here.]

Figure 1 differs from the corresponding figure in He and Huang (2017) for several reasons. First, we exclude firms in financial/utility industries whereas He and Huang (2017) keep those observations. Second, because Thomson Reuters Institutional (13F) Holdings database contains some errors (Ben-David et al. 2016), the database needs to delete or correct some information on institutional investors over time. This change makes some blockholders mentioned in He and Huang (2017) no longer available in our sample. Fortunately, the majority of He and Huang's (2017) cases in 1995-2010 stay, making our analysis consistent with prior research.

Following He and Huang (2017), we use the 2-year average CSP $AvgCSR_{[t+1, t+2]}$ as the dependent variable and implement a symmetric 7-year window around the event year.

4.2 The DID results

¹⁶ At the beginning, we collect mergers in the same period as that of the sample used in regression analysis. However, there are no satisfying mergers happened in 2013-2014.

Under this quasi-natural experiment, we estimate the average treatment effect (ATE) of the exogenous shocks by running the following regression:

$$\begin{aligned} AvgCSRMeasure_{[t+1,t+2]} = & \alpha + \beta_1 Treat_i \times Post_t \\ & + \beta_2 Treat_i + \beta_3 Post_t + \gamma' Controls_{i,t} + FE + \varepsilon_{i,t+1} \end{aligned} \quad (3)$$

where $AvgCSRMeasure_{[t+1,t+2]}$ denotes the two-year average CSP measures. Control variables are the same as those in base regressions. FE denotes firm- and merger-FEs and firm \times merger FEs, as He and Huang (2017) suggested. Standard errors are adjusted for heteroskedasticity and clustered by firm.

[Insert Table 5 about here.]

Panel A of Table 5 reports that all the coefficients of interest, $TREAT \times POST$, are negative and significant at 1% level across model specifications and sets of FEs. The ATE effect is about $-.3853$ across different settings. The interpretation is that cross-blockheld firms, on average, reduce CSP by $.3853$ each year in the following two years. Compared to the sample mean and standard deviation of overall CSR score, this effect is statistically significant and economically meaningful. Consistent with estimates from the OLS regression, this evidence provides a causal inference on the negative impact of institutional cross-blockholding on firms' CSP, which corroborates the distraction hypothesis.

4.3 Robustness tests

4.3.1 Propensity score matching

We use the nearest-neighbor matching of propensity scores based on Rosenbaum and Rubin (1983). The matching variables include firm size, Tobin's Q, book leverage, collateral, investment, analyst coverage, institutional ownership, retained earnings, breadth of institutional ownership, industry dummies, and year dummies. Each treated firm is matched to two firms in the control

group. Finally, the matched sample consists of 1,434 observations. To test whether this matching satisfies the balance condition, we adopt a balance test of PSM and find that firms' characteristics are balanced between treatment and control groups.¹⁷ After PSM, we replicate the DID analysis and show the results in Panel B of Table 5. Like the results in Panel A of Table 5, the coefficients of interest are all negative and significant in the matched sample. This evidence further supports the negative effect of institutional cross-blockholding on firms' CSP.

[Insert Table 6 about here.]

To see whether the results in Panel B of Table 5 are sensitive to the selection of matching variables, we use alternate sets of matching variables in PSM. In these robustness tests, we use the following sets of matching variables: (1) *SIZE*; (2) *SIZE/TOBINQ*; (3) *SIZE/TOBINQ/INSTO*; (4) *SIZE/TOBINQ/RETA*; (5) *SIZE/TOBINQ/EBITDA*; (6) *SIZE/TOBINQ/RETA/INSTO*; and (7) *SIZE/TOBINQ/EBITDA/INSTO*. Table 6 reports the ATEs of institutional cross-blockholding are negative and significant across different model specifications. In addition, the magnitude of the treatment effect varies little across different matching variables and model settings. Overall, these results suggest that the negative impact of institutional cross-blockholding on firms' CSP is not driven by the selection of matching variables.

4.3.2 Excluding the merger between BlackRock and Barclays Global Investors

As Lewellen and Lowry (2021) showed, the merger between BlackRock and Barclays Global Investors contributes a large portion of observations in the quasi-natural experiment among institutional blockholders mergers. Because the BlackRock-BGI merger is a sensation under the background of the financial crisis, portfolio firms' action to the merger may reflect firms' response to other factors (e.g., financial crisis) instead of institutional cross-ownership (Lewellen and Lowry

¹⁷ Appendix Table A3 reports the results of the balance test.

2021). Therefore, we examine the change of firms' CSP after blockholder mergers excluding observations affected by the BlackRock-BGI merger. Table 7 shows the results.

[Insert Table 7 about here.]

Similar to Lewellen and Lowry's (2021) findings, the sample size drops to 1,790 after excluding observations related to the BlackRock-BGI merger. However, our DID results are significant in this restricted sample. We conclude that the impact of institutional cross-blockholding on CSR comes not from firms' response to the financial crisis.

4.4 Decomposition of CSR: Strengths and concerns

As Table 8 shows, the average treatment effects on CSR concerns are positive and significant in all the models, while the effects on CSR strengths are significant only in Columns (1) and (4) of Panel A. This evidence suggests that institutional cross-blockholding reduces firms' CSP mainly through increasing CSR concerns. The insight is that investors are more likely to overlook firms' CSR concerns when they are distracted under institutional cross-blockholding (Chen, Dong, and Lin 2020).

[Table 8 insert about here.]

4.5 CSR dimensions

Following Chen, Dong, and Lin (2020), we include five CSR dimensions in this analysis, including Community (*COM*), Workforce diversity (*DIV*), Employee relations (*EMP*), Environment impact (*ENV*), and Product quality (*PRO*). The construction of dependent variables, control variables, and fixed effects are the same as those in Table 4. Table 9 reports the results.

[Table 9 insert about here.]

As Table 9 reports, the impact of institutional cross-blockholding is significant on workforce diversity, employee relations, and product quality dimensions but insignificant on community and

environment dimensions. Because investors punish firms severely if their performance on community and diversity dimensions drops (Krueger 2015), our results suggest the stickiness of firm performance on these two CSR dimensions.

5 Mechanism tests

5.1 Testing the distraction channel

5.1.1 Evidence from EDGAR search volume

To find direct evidence on how investor attention changes, we use EDGAR search volume (*ESV*) measured by Loughran and McDonald (2017) to measure attention (Drake, Roulstone, and Thornock 2015, Loughran and McDonald 2017, Ryans 2017, Ryans 2021) and examine whether institutional cross-blockholding leads to investor distraction (Chen, Dong, and Lin 2020, Kempf, Manconi, and Spalt 2017, Liu et al. 2020).¹⁸ Different from the shareholder distraction measure in Kempf, Manconi, and Spalt (2017), EDGAR search volume directly measures investor attention from the demand side of information.¹⁹ We use the logarithm form of the total number of nonrobot page views according to Loughran and McDonald's (2017) method (*Total ESV*) as the dependent variable. We also decompose *Total ESV* by the types of SEC filings. Following Iliev et al. (2021), we separate SEC filings into financial and nonfinancial filings. Financial filings (*ESV Financial*) include 10-K and 10-Q filings, and others are identified as non-financial filings (*ESV Non-financial*). To eliminate the intervention of attention from government sectors, we exclude attention from IRS (Bozanic et al. 2017) and construct the total search volume of nonrobot page viewers excluding IRS search records (*Non-IRS ESV*) as another dependent variable.

¹⁸ All the *ESV* measures are in the logarithm form. We use EDGAR search volume from James Ryans' EDGAR Log File Data (<http://www.jamesryans.com/>).

¹⁹ According to Loughran and McDonald (2017), the majority of information acquisition of EDGAR comes from sophisticated investors.

Panel A of Table 10 reports the coefficient estimates of $TREAT \times POST$ are significantly negative for EDGAR search volume in total filings, financial filings, nonfinancial filings, and total ESV excluding IRS search records. The findings support the distraction effect of institutional cross-blockholding. In addition, the attention to nonfinancial filings decreases more than the attention to financial filings. This finding is consistent with our prediction that distracted investors may focus less on corporate information that is less related to their portfolio performance.

If the distraction hypothesis is correct, the negative impact of institutional cross-blockholding on CSP is expected to be higher for firms with lower market attention before the mergers because managers in those firms face less pressure from investors' engagement in CSR due to distraction (Chen, Dong, and Lin 2020).

[Table 10 insert about here.]

As Panel B of Table 10 shows, the effect of institutional cross-blockholding on CSP significant for firms with low ESV but insignificant for firms with high ESV. This evidence supports our prediction on investor distraction because firms with lower attention before mergers are more likely to be overlooked when investors become busier after the merger. To test the external validity of these results, we conduct similar tests on the multivariate OLS sample and find similar results.²⁰ One possible caveat of this analysis is that we do not track investors' EDGAR search volume one by one around mergers. However, because the decrease in attention via EDGAR is less likely driven by other market participants around the mergers, our results should be stronger when we remove such a noise from overall EDGAR attention.

Evidence from different types of institutional investors also supports the distraction hypothesis. Using Brian Bushee's classification (Bushee 2001, Bushee and Noe 2000) to identify

²⁰ The results for multivariate OLS sample are shown in Appendix Table A4.

the type of institutional investors, we observe a significant decrease in CSR for firms cross-held by transient investors and quasi-indexer but not by dedicated investors.²¹ Because dedicated investors pay more attention to their portfolio firms, these results are consistent with the distraction thesis.

5.1.2 Evidence from shareholder proposals

If blockholders are distracted by the increased portfolio firms, we would observe a decrease in shareholder proposals (Gilje, Gormley, and Levit 2020). Following Chen, Dong, and Lin (2020), we collect shareholder proposals on socially responsible investment from the ISS Shareholder Proposals database. The dependent variables $\%SRI_{t+1}$, $\%SRI_PASS_{t+1}$, NUM_SRI_{t+1} , and $NUM_SRI_PASS_{t+1}$ denote percent of proposals on SRI, percent of passed proposals on SRI, the number of proposals on SRI, and the number of passed proposals on SRI, respectively. According to the distraction hypothesis, if institutional cross-blockholders pay less attention to firms' CSR activities, we will observe fewer SRI shareholder proposals for firms under institutional cross-blockholding.²²

[Table 11 insert about here.]

Panel A of Table 11 shows that the percentage of SRI proposals and passed SRI proposals are lower in firms under institutional cross-blockholding. Panel B of Table 11 reports similar results in terms of the number of SRI proposals. Because shareholder proposals reflect the intention of shareholders (Chen, Dong, and Lin 2020, McCahery, Sautner, and Starks 2016), the decrease in SRI proposals provides direct evidence on how much attention institutional cross-blockholder pay to firms' CSP. Based on findings from EDGAR attention and shareholder proposals, we infer that

²¹ The results are shown in Appendix Table A5.

²² Due to limited observations when we match shareholder proposals dataset to our DID sample, examining the change of affected firms' SRI proposals around mergers between financial institutions provides invalid evidence.

the negative impact of institutional cross-blockholding on portfolio firms' CSP comes mainly from investors' distraction when holding multiple firms simultaneously.

6 Conclusion

This paper documents the negative impact of institutional cross-blockholding on portfolio firms' CSP. In multivariate OLS regressions, we observe a negative effect of institutional cross-blockholding on firms' CSP, which is robust to alternative measures on CSR and institutional cross-blockholding, different model settings, different sample coverage, different sample period and another source of CSP from Sustainalytics. Using a quasi-natural experiment based on mergers between financial institutions, we establish a causal link between institutional cross-blockholding and portfolio firms' CSP. Examining CSR strengths and concerns, we find an asymmetric impact of institutional cross-blockholding on firms' CSP, which comes more likely from investor distraction according to prior literature. In terms of different CSR dimensions, cross-held firms perform worse in workforce diversity, employee relations, and product quality dimensions, but not in community and environment impact dimensions, which suggests the different social costs of institutional cross-blockholding across CSR dimensions. Based on more direct evidence from EDGAR search volume and shareholder proposals on socially responsible investment, we infer that the negative effect of institutional cross-blockholding on CSR is more likely to be driven by the distraction effect when institutional investors hold multiple firms at the same time. In heterogeneity tests by corporate governance environment and product market competition, we eliminate alternative explanations on corporate governance and anticompetitive effects. Overall, by providing evidence from firms' CSP under institutional cross-blockholding, this paper supports Gilje, Gormley, and Levit (2020)'s theory on the allocation of limited attention when investors hold multiple blocks. By documenting an inadvertent impairment of institutional cross-

blockholding on firms' CSP due to investor distraction, this paper also suggests another channel through which common investors may affect portfolio firms' behavior. This argument helps us to better understand the impact of common ownership, especially when its anticompetitive effect is questioned by recent research (Koch, Panayides, and Thomas 2021, Lewellen and Lowry 2021). Public policymakers, proponents of CSR, and financial regulators (e.g., the U.S. Securities and Exchange Commission) may use our findings and caution socially oriented investors from the potential perils of becoming too fragmented in their portfolio. Because such investors aim to use their investments to promote socially beneficial outcomes, they would achieve their aims more effectively and efficiently by focusing their attention on a more coherent set of stocks.

References

- Azar, José, Martin C. Schmalz, and Isabel Tecu, 2018, Anticompetitive Effects of Common Ownership, *The Journal of Finance* 73, 1513–1565.
- Backus, Matthew, Christopher Conlon, and Michael Sinkinson, 2021, Common Ownership in America: 1980-2017, *American Economic Journal: Macroeconomics* Forthcoming.
- Baker, Malcolm, and Jeffrey Wurgler, 2013, Chapter 5 - Behavioral Corporate Finance: An Updated Survey, in George M. Constantinides, Milton Harris, and Rene M. Stulz, eds.: *Handbook of the Economics of Finance* (Elsevier).
- Bénabou, Roland, and Jean Tirole, 2010, Individual and Corporate Social Responsibility, *Economica* 77, 1–19.
- Ben-David, Itzhak, Francesco Franzoni, Rabih Moussawi, and John Sedunov, 2016, The Granular Nature of Large Institutional Investors, *NBER Working Paper*.
- Berg, Florian, Julian Kölbels, and Roberto Rigobon, Aggregate Confusion: The Divergence of ESG Ratings, *MIT Sloan School Working Paper*.
- Bozanic, Zahn, Jeffery L. Hoopes, Jacob R. Thornock, and Braden M. Williams, 2017, IRS Attention, *Journal of Accounting Research* 55, 79–114.
- Bushee, Brian J., 2001, Do Institutional Investors Prefer Near-Term Earnings over Long-Run Value?, *Contemporary Accounting Research* 18, 207–246.
- Bushee, Brian J., and Christopher F. Noe, 2000, Corporate Disclosure Practices, Institutional Investors, and Stock Return Volatility, *Journal of Accounting Research* 38, 171.
- Cao, Jie, Hao Liang, and Xintong Zhan, 2019, Peer Effects of Corporate Social Responsibility, *Management Science*.
- Chatterji, Aaron K., Rodolphe Durand, David I. Levine, and Samuel Touboul, 2016, Do ratings of firms converge?: Implications for managers, investors and strategy researchers, *Strategic Management Journal* 37, 1597–1614.
- Chen, Tao, Hui Dong, and Chen Lin, 2020, Institutional shareholders and corporate social responsibility, *Journal of Financial Economics* 135, 483–504.

- Chen, Tao, Jarrad Harford, and Chen Lin, 2015, Do analysts matter for governance?: Evidence from natural experiments, *Journal of Financial Economics* 115, 383–410.
- Chen, Yangyang, Qingyuan Li, and Jeffrey Ng, 2018, Institutional Cross-Ownership and Corporate Financing of Investment Opportunities, *Working Paper*.
- Chen, Yong, Bryan Kelly, and Wei Wu, 2020, Sophisticated investors and market efficiency: Evidence from a natural experiment, *Journal of Financial Economics* 138, 316–341.
- Cheng, Ing-Haw, Harrison Hong, and Kelly Shue, 2013, Do Managers Do Good with Other People's Money?, *NBER Working Paper*.
- Cheng, Xin, He Wang, and Xianjue Wang, 2021, Common institutional ownership and corporate social responsibility, *Journal of Banking & Finance* 58, 106218.
- Coles, J., N. Daniel, and L. Naveen, 2006, Managerial incentives and risk-taking, *Journal of Financial Economics* 79, 431–468.
- Cremers, K. J. M., Vinay B. Nair, and Kose John, 2009, Takeovers and the Cross-Section of Returns, *The Review of Financial Studies* 22, 1409–1445.
- Cronqvist, Henrik, and Frank Yu, 2017, Shaped by their daughters: Executives, female socialization, and corporate social responsibility, *Journal of Financial Economics* 126, 543–562.
- Dai, Rui, Hao Liang, and Lilian Ng, 2020, Socially responsible corporate customers, *Journal of Financial Economics* 55, 2791.
- Dai, Xin, and Yue Qiu, 2020, Common Ownership and Corporate Social Responsibility, *The Review of Corporate Finance Studies*.
- Deng, Xin, Jun-koo Kang, and Bueen S. Low, 2013, Corporate social responsibility and stakeholder value maximization: Evidence from mergers, *Journal of Financial Economics* 110, 87–109.
- Di Giuli, Alberta, and Leonard Kostovetsky, 2014, Are red or blue companies more likely to go green?: Politics and corporate social responsibility, *Journal of Financial Economics* 111, 158–180.
- Dimson, Elroy, Oğuzhan Karakaş, and Xi Li, 2015, Active Ownership, *The Review of Financial Studies* 28, 3225–3268.
- Drake, Michael S., Darren T. Roulstone, and Jacob R. Thornock, 2015, The Determinants and Consequences of Information Acquisition via EDGAR, *Contemporary Accounting Research* 32, 1128–1161.
- Dyck, Alexander, Karl V. Lins, Lukas Roth, and Hannes F. Wagner, 2019, Do institutional investors drive corporate social responsibility?: International evidence, *Journal of Financial Economics* 131, 693–714.
- Edmans, Alex, Doron Levit, and Devin Reilly, 2019, Governance Under Common Ownership, *The Review of Financial Studies* 32, 2673–2719.
- Fama, Eugene F., and Kenneth R. French, 1997, Industry costs of equity, *Journal of Financial Economics* 43, 153–193.
- Feldstein, Martin, and Jerry Green, 1983, Why Do Companies Pay Dividends?, *American Economic Review* 73, 17--30.
- Ferrell, Allen, Hao Liang, and Luc Renneboog, 2016, Socially responsible firms, *Journal of Financial Economics* 122, 585–606.
- Flammer, Caroline, 2015a, Does Corporate Social Responsibility Lead to Superior Financial Performance?: A Regression Discontinuity Approach, *Management Science* 61, 2549–2568.
- Flammer, Caroline, 2015b, Does product market competition foster corporate social responsibility?: Evidence from trade liberalization, *Strategic Management Journal* 36, 1469–

1485.

- Freeman, Kayla, 2016, The Effects of Common Ownership on Customer-Supplier Relationships, *Kelley School of Business Research Paper*.
- Gilje, Erik P., Todd A. Gormley, and Doron Levit, 2020, Who's paying attention?: Measuring common ownership and its impact on managerial incentives, *Journal of Financial Economics* 137, 152–178.
- He, Jie, and Jiekun Huang, 2017, Product Market Competition in a World of Cross-Ownership: Evidence from Institutional Blockholdings, *The Review of Financial Studies* 30, 2674–2718.
- He, Jie, Jiekun Huang, and Shan Zhao, 2019, Internalizing governance externalities: The role of institutional cross-ownership, *Journal of Financial Economics* 134, 400–418.
- Hong, Harrison, and Marcin Kacperczyk, 2009, The price of sin: The effects of social norms on markets, *Journal of Financial Economics* 93, 15–36.
- Hong, Harrison, and Leonard Kostovetsky, 2012, Red and blue investing: Values and finance, *Journal of Financial Economics* 103, 1–19.
- Hong, Harrison, Jeffrey D. Kubik, and Jose A. Scheinkman, 2012, Financial Constraints on Corporate Goodness, *NBER Working Paper*.
- Iliev, Peter, Jonathan Kalodimos, Michelle Lowry, and Lauren Cohen, 2021, Investors' Attention to Corporate Governance, *The Review of Financial Studies* 22, 2445.
- Ho, Shuna Shu Ham, Chang Hoon Oh, and Daniel Shapiro. "Can corporate social responsibility lead to social license? A sentiment and emotion analysis." *Journal of Management Studies*, Forthcoming.
- Ioannou, Ioannis, and George Serafeim, 2012, What drives corporate social performance?: The role of nation-level institutions, *Journal of International Business Studies* 43, 834–864.
- Jensen, Michael C., 1986, Agency costs of free cash flow, corporate finance, and takeovers, *American Economic Review* 76, 323–329.
- Jensen, Michael C., and William H. Meckling, 1976, Theory of the firm: Managerial behavior, agency costs and ownership structure, *Journal of Financial Economics* 3, 305–360.
- Jo, Hoje, and Maretno A. Harjoto, 2011, Corporate Governance and Firm Value: The Impact of Corporate Social Responsibility, *Journal of Business Ethics* 103, 351–383.
- Kahneman, Daniel, and Amos Tversky, 1979, Prospect Theory: An Analysis of Decision under Risk, *Econometrica* 47, 263.
- Kang, Jun-koo, Juan Luo, and Hyun S. Na, 2018, Are institutional investors with multiple blockholdings effective monitors?, *Journal of Financial Economics* 128, 576–602.
- Kempf, Elisabeth, Alberto Manconi, and Oliver Spalt, 2017, Distracted Shareholders and Corporate Actions, *The Review of Financial Studies* 30, 1660–1695.
- Koch, Andrew, Marios Panayides, and Shawn Thomas, 2021, Common ownership and competition in product markets, *Journal of Financial Economics* 139, 109–137.
- Kostovetsky, Leonard, and Alberto Manconi, 2017, Common Institutional Ownership and Diffusion of Innovation, *Working Paper*.
- Krueger, Philipp, 2015, Corporate goodness and shareholder wealth, *Journal of Financial Economics* 115, 304–329.
- Krueger, Philipp, Zacharias Sautner, Laura T. Starks, and Andrew Karolyi, 2020, The Importance of Climate Risks for Institutional Investors, *The Review of Financial Studies* 33, 1067–1111.
- Lewellen, Katharina, and Michelle B. Lowry, 2021, Does Common Ownership Really Increase Firm Coordination?, *Journal of Financial Economics* Forthcoming.
- Liang, Hao, and Luc Renneboog, 2017, On the Foundations of Corporate Social Responsibility,

- The Journal of Finance* 72, 853–910.
- Liang, Hao, and Luc Renneboog, 2020, Corporate Social Responsibility and Sustainable Finance: A Review of the Literature, *ECGI Working Paper*.
- Liu, Claire, Angie Low, Ronald W. Masulis, Le Zhang, and Wei Jiang, 2020, Monitoring the Monitor: Distracted Institutional Investors and Board Governance, *The Review of Financial Studies* 33, 4489–4531.
- Loughran, Tim, and Bill McDonald, 2017, The Use of EDGAR Filings by Investors, *Journal of Behavioral Finance* 18, 231–248.
- Masulis, Ronald W., and Syed W. Reza, 2015, Agency Problems of Corporate Philanthropy, *The Review of Financial Studies* 28, 592–636.
- McCahery, Joseph A., Zacharias Sautner, and Laura T. Starks, 2016, Behind the Scenes: The Corporate Governance Preferences of Institutional Investors, *The Journal of Finance* 71, 2905–2932.
- Park, Jihwon, Jalal Sani, Nemit Shroff, and Hal White, 2019, Disclosure incentives when competing firms have common ownership, *Journal of Accounting and Economics* 67, 387–415.
- Ramalingegowda, Santhosh, Steven Utke, and Yong Yu, 2021, Common Institutional Ownership and Earnings Management, *Contemporary Accounting Research* 38, 208–241.
- Riedl, Arno, and Paul Smeets, 2017, Why Do Investors Hold Socially Responsible Mutual Funds?, *The Journal of Finance* 72, 2505–2550.
- Risi, David, and Christopher Wickert. "Reconsidering the 'symmetry' between institutionalization and professionalization: The case of corporate social responsibility managers." *Journal of Management Studies*, 54 (5), 613-646.
- Ryans, James, 2017, Using the EDGAR Log File Data Set, *Working Paper*.
- Ryans, James P., 2021, Textual classification of SEC comment letters, *Review of Accounting Studies* 26, 37–80.
- Servaes, Henri, and Ane Tamayo, 2013, The Impact of Corporate Social Responsibility on Firm Value: The Role of Customer Awareness, *Management Science* 59, 1045–1061.
- Shleifer, Andrei, 2012, Psychologists at the Gate: A Review of Daniel Kahneman's Thinking, Fast and Slow, *Journal of Economic Literature* 50, 1080–1091.
- Turker, Duygu, 2009, Measuring Corporate Social Responsibility: A Scale Development Study, *Journal of Business Ethics* 85, 411–427.
- Waddock, Sandra A., and Samuel B. Graves, 1997, The Corporate Social Performance-Financial Performance Link, *Strategic Management Journal* 18, 303–319.
- Wahal, Sunil, and Albert Wang, 2011, Competition among mutual funds, *Journal of Financial Economics* 99, 40–59.
- Wickert, Christopher. "Corporate social responsibility research in the Journal of Management Studies: A shift from a business-centric to a society-centric focus." *Journal of Management Studies*, 58 (8), E1-E17.
- Yu, Fang, 2008, Analyst coverage and earnings management, *Journal of Financial Economics* 88, 245–271.

Figure 1
Number of Mergers between Institutional Blockholders

This figure plots the number of effective mergers between institutional blockholders in each year during 1995-2012. The merger information and blockholders' holding information come from SDC database and Thomson Reuters Institutional (13F) Holdings database, respectively. According to He and Huang (2017), mergers should satisfy the following criteria. First, both acquirer and target in the merger are located in the U.S. and should be listed in Thomson Reuters Institutional (13F) Holdings as institutional blockholders that hold more than 5% of shares in at least one firm. Second, Thomson Reuters Institutional (13F) Holdings database stops recording the filings of the target institutional blockholders in the same year as that of the merger's announcement date. Third, the completion period of mergers should not exceed one year. Fourth, both the target and acquirer hold firms in the same industry at one quarter before the merger. After that, we link firms affected by these mergers to financial data from COMPUSTAT. In order to make the analysis comparable to related works on CSR, firms in financial (SIC code: 6000-6999) and utility (SIC code: 4900-4999) industries are excluded. Observations with missing data are also excluded. If no firms are from a merger case because they are from financial and utility industries or with missing data, the merger will be dropped out of the merger cases. Finally, 36 effective merger cases are included in this quasi-natural experiment.

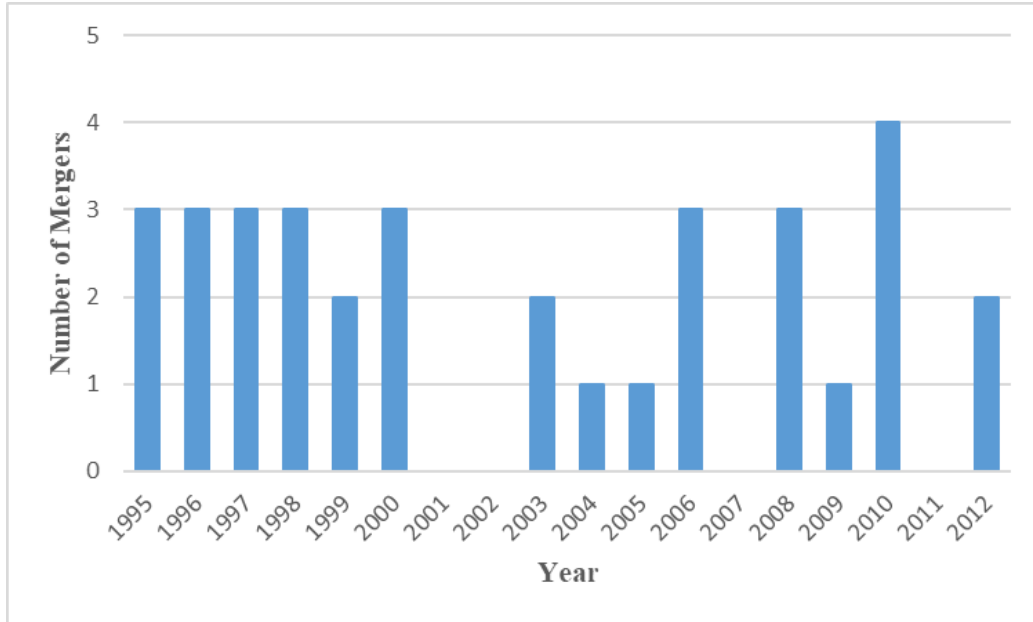


Table 1
Summary Statistics: Multivariate OLS Analysis

This table reports summary statistics of the key variables in multivariate OLS analysis. The sample comes from multiple sources. Firm-level financial data come from COMPUSTAT database. Corporate social responsibility data come from MSCI ESG KLD database. Institutional investor holdings data come from Thomson Reuters Institutional (13F) Holdings database (adjusted by Factset Institutional Holdings database after June 2013). Analyst coverage data come from Institutional Brokers Estimate System (IB\ES). We require observations to satisfy the following criteria: (1) Book equity is positive; (2) Each firm should at least have 2-year consecutive observations; (3) Variables are available in all observations; (4) Firms are not in financial (SIC code 6000-6999) or utility (SIC codes 4900-4999) industries. Finally, the sample consists of 13,112 observations that meet these criteria during 1995-2014 when both Thomson Reuters Institutional (13F) Holdings and KLD are available. All continuous variables are winsorized at 1st and 99th percentiles to alleviate the potential disturbance from outliers. The variable definitions are provided in Appendix Table 1.

	N	Mean	St.dev	P25	Median	P75
<i>Dependent variables: Corporate social responsibility</i>						
<i>CSR</i>	13,112	-0.1204	1.9680	-1.0000	0.0000	1.0000
<i>STR</i>	13,112	1.1268	1.8267	0.0000	0.0000	1.0000
<i>CON</i>	13,112	1.2472	1.4385	0.0000	1.0000	2.0000
<i>COM</i>	13,112	0.0657	0.4647	0.0000	0.0000	0.0000
<i>DIV</i>	13,112	-0.0133	1.1621	-1.0000	0.0000	0.0000
<i>EMP</i>	13,112	-0.0718	0.8338	0.0000	0.0000	0.0000
<i>ENV</i>	13,112	0.0050	0.7250	0.0000	0.0000	0.0000
<i>PRO</i>	13,112	-0.1060	0.5536	0.0000	0.0000	0.0000
<i>Independent variables: Institutional cross-blockholding measures</i>						
<i>CROSS DUM</i>	13,112	0.7264	0.4458	0.0000	1.0000	1.0000
<i>AVGNUM</i>	13,112	2.9864	4.4985	0.0000	1.3750	3.5417
<i>CROSS OWN</i>	13,112	0.1068	0.0970	0.0000	0.0903	0.1609
<i>NUMCONNECT</i>	13,112	1.9611	1.6233	0.0000	2.0000	4.0000
<i>NUMCROSS</i>	13,112	1.6861	1.5196	0.0000	1.0000	3.0000
<i>Control variables</i>						
<i>SIZE</i>	13,112	7.1107	1.4724	6.0258	6.9933	8.0780
<i>TOBINQ</i>	13,112	2.0195	1.2303	1.2369	1.6212	2.3443
<i>BLEV</i>	13,112	0.2183	0.1835	0.0536	0.2009	0.3275
<i>EBITDA</i>	13,112	0.1256	0.1165	0.0837	0.1306	0.1851
<i>PPENT</i>	13,112	0.2693	0.2244	0.0955	0.1976	0.3858
<i>CAPX</i>	13,112	0.0538	0.0577	0.0194	0.0356	0.0645
<i>INSTO</i>	13,112	0.7705	0.1806	0.6623	0.8036	0.9127
<i>NAN</i>	13,112	2.0806	0.8122	1.6094	2.1972	2.7081
<i>RETA</i>	13,112	0.1400	0.4051	0.0332	0.1808	0.3493
<i>LN_NUM_INST</i>	13,112	5.1056	0.7002	4.6299	5.0353	5.5304

Table 2
Baseline Regressions: Multivariate OLS Analysis

This table reports the regression results for the association between institutional cross-blockholding and corporate social responsibility. We run the baseline regression as Equation (1):

$$CSRMeasure_{i,t+1} = \alpha + \beta CrossMeasure_{i,t} + \gamma Controls_{i,t} + FE + \varepsilon_{i,t+1} \quad (1)$$

where *CSRMeasure* is one of the several measures on corporate social responsibility. *CrossMeasure* is one of the five cross-blockholding proxies in each firm-year. In the baseline regressions, the dependent variable is the CSP at $t+1$ (CSR_{t+1}), and the independent variable, *CROSS_DUM*, is an indicator that equals one if the firm is cross-held in any quarter of the year. The control variables include firm size (*SIZE*), Tobin's Q (*TOBINQ*), book leverage (*BLEV*), profitability (*EBITDA*), collateral (*PPENT*), investment (*CAPX*), institutional ownership (*INSTO*), analyst coverage (*NAN*), retained earnings (*RETA*), and the logarithm form of the number of 13F institutional investors (*LN_NUM_INST*). Three sets of fixed effects are included in the regressions. Columns (1) and (2) report results with firm and year fixed effects. Columns (3) and (4) report the results of models with firm and industry×year fixed effects. Columns (5) and (6) report results with firm, industry×year, and county fixed effects. Results of the simple model are provided in Columns (1), (3), and (5), and the results of the full model are shown in Columns (2), (4), and (6). Industries are classified by Fama-French 48 industries (Fama and French 1997). Standard errors are adjusted for heteroskedasticity and clustered by firm. *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are shown in the parentheses.

	(1) <i>CSR_{t+1}</i>	(2) <i>CSR_{t+1}</i>	(3) <i>CSR_{t+1}</i>	(4) <i>CSR_{t+1}</i>	(5) <i>CSR_{t+1}</i>	(6) <i>CSR_{t+1}</i>
<i>CROSS_DUM</i>	-0.1600*** (0.0478)	-0.1680*** (0.0473)	-0.1571*** (0.0474)	-0.1720*** (0.0476)	-0.1560*** (0.0496)	-0.1724*** (0.0498)
<i>SIZE</i>		-0.1559* (0.0799)		-0.1279 (0.0779)		-0.1341* (0.0803)
<i>TOBINQ</i>		-0.0571** (0.0251)		-0.0385 (0.0248)		-0.0396 (0.0260)
<i>BLEV</i>		0.3842* (0.1970)		0.1585 (0.1929)		0.1941 (0.2004)
<i>EBITDA</i>		0.4818** (0.2118)		0.3349 (0.2109)		0.2456 (0.2117)
<i>PPENT</i>		0.6873 (0.4326)		0.4770 (0.3966)		0.3999 (0.4111)
<i>CAPX</i>		-1.1595** (0.4853)		-0.8646* (0.5188)		-0.8733 (0.5553)
<i>INSTO</i>		0.1265 (0.2065)		0.3943** (0.1975)		0.4062** (0.2060)
<i>NAN</i>		0.0404 (0.0381)		0.0029 (0.0374)		0.0089 (0.0391)
<i>RETA</i>		0.1801* (0.1001)		0.1629* (0.0950)		0.1813* (0.0971)
<i>LN_NUM_INST</i>		0.4148***		0.3558***		0.3425***

Constant	-0.0042 (0.0347)	(0.1222) -1.3664** (0.6000)	-0.0063 (0.0344)	(0.1158) -1.3161** (0.5845)	0.0044 (0.0362)	(0.1213) -1.1917** (0.6000)
Firm FE	Yes	Yes	Yes	Yes	Yes	Yes
Year FE	Yes	Yes	No	No	No	No
Industry×Year FE	No	No	Yes	Yes	Yes	Yes
County FE	No	No	No	No	Yes	Yes
Observations	13,112	13,112	13,112	13,112	12,530	12,530
R-squared	0.6564	0.6588	0.6998	0.7016	0.6929	0.6946

Table 3
Robustness Tests of the OLS Analysis

This table presents the results of the robustness tests of the OLS analysis. Panel A reports the results when alternative measures of institutional cross-blockholding are used as independent variables. The alternative measures of institutional cross-blockholding include the average number of peers in the same industry that are held by the same blockholders (*AVGNUM*), the total percentage of shares held by cross-blockholders (*CROSS_OWN*), the number of unique cross-blockholders (*NUMCROSS*), the number of peer firms in the same industry that share any common blockholder with the firm (*NUMCONNECT*). Panel B shows the results when applying CSP with different horizons. CSP at $t+2$ (CSR_{t+2}), 2-year average of CSR ($AvgCSR_{[t+1,t+2]}$), and 3-year average of CSR ($AvgCSR_{[t+1,t+3]}$) are used in this analysis. Panel C reports results when the dependent variable is the adjusted CSP ($AdjCSR_{t+1}$) calculated according to Deng, Kang, and Low (2013). Panel D shows the results when excluding observations during the 2008 financial crisis. Panel E shows the results when firms' CSP is rated by Sustainalytics database. *SOSICALS* and $AvgSOCIALS$ and denote the social score and 2-year average social score in Sustainalytics, respectively. The control variables are the same as those in baseline regressions. Industries are classified by Fama-French 48 industries. Standard errors are adjusted for heteroskedasticity and clustered by firm. *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are shown in the parentheses.

Panel A: Alternative measures of institutional cross-blockholding

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	CSR_{t+1}	CSR_{t+1}	CSR_{t+1}	CSR_{t+1}	CSR_{t+1}	CSR_{t+1}	CSR_{t+1}	CSR_{t+1}
<i>AVGNUM</i>	-0.0249*** (0.0067)	-0.0184*** (0.0063)						
<i>CROSS_OWN</i>			-0.4827* (0.2581)	-0.4448* (0.2597)				
<i>NUMCROSS</i>					-0.0472*** (0.0177)	-0.0463*** (0.0178)		
<i>NUMCONNECT</i>							-0.0289** (0.0122)	-0.0263** (0.0124)
Constant	-1.4085** (0.5850)	-1.5024** (0.6025)	-1.3670** (0.5884)	-1.4291** (0.6062)	-1.3839** (0.5875)	-1.4469** (0.6041)	-1.3750** (0.5875)	-1.4296** (0.6032)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Firm FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Year FE	No	Yes	No	Yes	No	Yes	No	Yes
Industry×Year FE	Yes	No	Yes	No	Yes	No	Yes	No
Observations	13,112	13,112	13,112	13,112	13,112	13,112	13,112	13,112
R-squared	0.7017	0.6586	0.7012	0.6583	0.7014	0.6585	0.7012	0.6584

Panel B: Alternative CSR horizons

	(1)	(2)	(3)	(4)	(5)	(6)
	CSR_{t+2}	CSR_{t+2}	$AvgCSR_{[t+1, t+2]}$	$AvgCSR_{[t+1, t+2]}$	$AvgCSR_{[t+1, t+3]}$	$AvgCSR_{[t+1, t+3]}$
<i>CROSS_DUM</i>	-0.1509*** (0.0501)	-0.1651*** (0.0503)	-0.1540*** (0.0452)	-0.1686*** (0.0454)	-0.1138** (0.0452)	-0.1240*** (0.0453)
Constant	0.0522 (0.0364)	-1.3078** (0.5893)	0.0229 (0.0329)	-1.3119** (0.5693)	0.0151 (0.0324)	-0.9646 (0.5978)
Controls	No	Yes	No	Yes	No	Yes
Firm FE	Yes	Yes	Yes	Yes	Yes	Yes
Industry \times Year FE	Yes	Yes	Yes	Yes	Yes	Yes
Observations	13,112	13,112	13,112	13,112	11,076	11,076
R-squared	0.6957	0.6979	0.7492	0.7512	0.7941	0.7959

Panel C: Alternative calculation method of CSR

	(1)	(2)	(3)	(4)	(5)	(6)
	$AdjCSR_{t+1}$	$AdjCSR_{t+1}$	$AdjCSR_{t+1}$	$AdjCSR_{t+1}$	$AdjCSR_{t+1}$	$AdjCSR_{t+1}$
<i>CROSS_DUM</i>	-0.0305*** (0.0091)	-0.0335*** (0.0091)	-0.0355*** (0.0095)	-0.0370*** (0.0093)	-0.0298*** (0.0095)	-0.0330*** (0.0095)
Constant	-0.0722*** (0.0066)	-0.1227 (0.1138)	-0.0686*** (0.0069)	-0.1358 (0.1138)	-0.0707*** (0.0069)	-0.0898 (0.1169)
Controls	No	Yes	No	Yes	No	Yes
Firm FE	Yes	Yes	Yes	Yes	Yes	Yes
Year FE	No	No	Yes	Yes	No	No
Industry \times Year FE	Yes	Yes	No	No	Yes	Yes
County FE	No	No	No	No	Yes	Yes
Observations	13,112	13,112	13,112	13,112	12,530	12,530
R-squared	0.6760	0.6776	0.6310	0.6334	0.6671	0.6688

Panel D: Excluding observations in the 2008 financial crisis

	(1) <i>CSR_{t+1}</i>	(2) <i>CSR_{t+1}</i>	(3) <i>CSR_{t+1}</i>	(4) <i>CSR_{t+1}</i>	(5) <i>CSR_{t+1}</i>	(6) <i>CSR_{t+1}</i>
<i>CROSS_DUM</i>	-0.1514*** (0.0535)	-0.1639*** (0.0541)	-0.1618*** (0.0539)	-0.1677*** (0.0537)	-0.1537*** (0.0563)	-0.1672*** (0.0568)
Constant	0.0803** (0.0386)	-1.4026** (0.6072)	0.0879** (0.0390)	-1.4022** (0.6297)	0.0898** (0.0409)	-1.2780** (0.6238)
Controls	No	Yes	No	Yes	No	Yes
Firm FE	Yes	Yes	Yes	Yes	Yes	Yes
Year FE	No	No	Yes	Yes	No	No
Industry×Year FE	Yes	Yes	No	No	Yes	Yes
County FE	No	No	No	No	Yes	Yes
Observations	10,890	10,890	10,890	10,890	10,414	10,414
R-squared	0.7088	0.7106	0.6655	0.6682	0.7009	0.7027

Panel E: CSR measures from Sustainalytics sample

	(1) <i>SOCIALS_{t+1}</i>	(2) <i>SOCIALS_{t+1}</i>	(3) <i>SOCIALS_{t+1}</i>	(4) <i>SOCIALS_{t+1}</i>	(5) <i>SOCIALS_{t+1}</i>	(6) <i>AvgSOCIALS</i>
<i>CROSS_DUM</i>	-0.8395*** (0.3147)					-0.7966*** (0.3041)
<i>AVGNUM</i>		-0.0847** (0.0340)				
<i>CROSS_OWN</i>			-2.9870** (1.5076)			
<i>NUMCROSS</i>				-0.1774** (0.0873)		
<i>NUMCONNECT</i>					-0.1369** (0.0677)	
Constant	-4.7713 (6.2675)	-5.4566 (6.1682)	-4.9304 (6.2371)	-5.3399 (6.2141)	-5.2195 (6.1921)	2.1382 (7.4716)
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Firm FE	Yes	Yes	Yes	Yes	Yes	Yes
Industry×Year FE	Yes	Yes	Yes	Yes	Yes	Yes
Observations	2,144	2,144	2,144	2,144	2,144	2,144
R-squared	0.9564	0.9564	0.9562	0.9562	0.9563	0.9595

Table 4
Summary Statistics: Quasi-Natural Experiment

This table reports the summary statistics of the key variables in the quasi-natural experiment based on mergers between financial institutional blockholders during 1995-2012. The sample comes from multiple sources. Firm-level financial data come from COMPUSTAT database. Corporate social responsibility data come from MSCI ESG KLD database. Institutional investor holdings data come from Thomson Reuters Institutional (13F) Holdings database. Analyst coverage data come from Institutional Brokers Estimate System (IB/E/S). We require observations to satisfy the following criteria: (1) Book equity is positive; (2) Each firm should at least have 2-year consecutive observations; (3) Variables are available in all observations; (4) Firms are not in financial (SIC code 6000-6999) or utility (SIC codes 4900-4999) industries. Our sample includes 3,778 firm-years that meet these criteria during 1995-2012 when Thomson Reuters Institutional (13F) Holdings and KLD are available and firms can be matched to blockholder mergers. All continuous variables are winsorized at 1st and 99th percentiles to alleviate the potential disturbance from outliers.

	N	Mean	Std. Dev.	P25	Median	P75
<i>Dependent variables: Corporate social responsibility</i>						
<i>AvgCSR</i> _[t+1, t+2]	3,778	-0.3677	1.9675	-1.5000	-0.5000	0.5000
<i>AvgSTR</i> _[t+1, t+2]	3,778	1.0776	1.7890	0.0000	0.5000	1.0000
<i>AvgCON</i> _[t+1, t+2]	3,778	1.4452	1.3669	0.5000	1.0000	2.0000
<i>AvgCOM</i> _[t+1, t+2]	3,778	0.0719	0.4551	0.0000	0.0000	0.0000
<i>AvgDIV</i> _[t+1, t+2]	3,778	-0.1102	1.2293	-1.0000	0.0000	0.5000
<i>AvgEMP</i> _[t+1, t+2]	3,778	-0.1784	0.7823	-0.5000	0.0000	0.0000
<i>AvgENV</i> _[t+1, t+2]	3,778	-0.0318	0.6786	0.0000	0.0000	0.0000
<i>AvgPRO</i> _[t+1, t+2]	3,778	-0.1191	0.5004	0.0000	0.0000	0.0000
<i>Control variables</i>						
<i>SIZE</i>	3,778	6.8182	1.3273	5.8754	6.6533	7.5830
<i>TOBINQ</i>	3,778	1.8989	1.1008	1.2028	1.5570	2.2017
<i>BLEV</i>	3,778	0.2004	0.1798	0.0238	0.1817	0.3097
<i>EBITDA</i>	3,778	0.1234	0.1214	0.0817	0.1311	0.1850
<i>PPENT</i>	3,778	0.2569	0.2155	0.0910	0.1925	0.3667
<i>CAPX</i>	3,778	0.0510	0.0552	0.0184	0.0337	0.0614
<i>INSTO</i>	3,778	0.8221	0.1519	0.7351	0.8513	0.9400
<i>NAN</i>	3,778	1.9962	0.7194	1.6094	2.0794	2.4849
<i>RETA</i>	3,778	0.1619	0.4208	0.0648	0.2083	0.3858
<i>LN NUM INST</i>	3,778	4.9935	0.5614	4.6299	4.9318	5.2946

Table 5
Quasi-natural Experiment: Institutional Blockholder Mergers

This table reports the results of the difference-in-differences tests under a quasi-natural experiment based on mergers between institutional blockholders located in the U.S. during 1995-2012. Following He and Huang (2017), we apply a symmetric 7-year window around the event year. Panel A shows the results in the unmatched sample. Panel B shows the DID results after a propensity score matching, where the matching variables include firm size, Tobin'Q, book leverage, collateral, investment, profitability, analyst coverage, and institutional ownership, retained earnings, breadth of institutional ownership, industry dummies, and year dummies. The dependent variable, $AvgCSR_{[t+1, t+2]}$, is the 2-year average of firms' CSP. Standard errors shown in the parentheses are adjusted for heteroskedasticity and clustered by firm. *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively.

Panel A: Unmatched sample

	(1)	(2)	(3)	(4)	(5)	(6)
	$AvgCSR_{[t+1, t+2]}$	$AvgCSR_{[t+1, t+2]}$	$AvgCSR_{[t+1, t+2]}$	$AvgCSR_{[t+1, t+2]}$	$AvgCSR_{[t+1, t+2]}$	$AvgCSR_{[t+1, t+2]}$
<i>TREAT</i> × <i>POST</i>	-0.4471*** (0.1354)	-0.4154*** (0.1240)	-0.3252*** (0.1226)	-0.4227*** (0.1336)	-0.3874*** (0.1242)	-0.3142*** (0.1204)
<i>TREAT</i>	0.1669 (0.1184)	0.1120* (0.0607)		0.1650 (0.1150)	0.0823 (0.0653)	
<i>POST</i>	0.1532** (0.0688)	0.1908*** (0.0605)	0.1806*** (0.0589)	0.1530** (0.0705)	0.1735*** (0.0614)	0.1689*** (0.0606)
Constant	-0.4156*** (0.0737)	-0.4226*** (0.0220)	-0.4000*** (0.0217)	-3.3513*** (0.8319)	-0.9338 (1.0183)	-1.9470* (1.0393)
Controls	No	No	No	Yes	Yes	Yes
Firm × Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	3,778	3,720	3,475	3,778	3,720	3,475
R-squared	0.0020	0.8008	0.8268	0.0992	0.8030	0.8291

Panel B: Matched sample

	(1)	(2)	(3)	(4)	(5)	(6)
	<i>AvgCSR</i> _[t+1, t+2]	<i>AvgCSR</i> _[t+1, t+2]	<i>AvgCSR</i> _[t+1, t+2]	<i>AvgCSR</i> _[t+1, t+2]	<i>AvgCSR</i> _[t+1, t+2]	<i>AvgCSR</i> _[t+1, t+2]
<i>TREAT</i> × <i>POST</i>	-0.3118* (0.1835)	-0.4668** (0.1814)	-0.3321* (0.1765)	-0.4449** (0.1794)	-0.4449** (0.1794)	-0.3166* (0.1756)
<i>TREAT</i>	0.0055 (0.1695)	0.1706 (0.1201)		0.1739 (0.1216)	0.1739 (0.1216)	
<i>POST</i>	0.0146 (0.1415)	0.2540* (0.1356)	0.1560 (0.1303)	0.2557* (0.1415)	0.2557* (0.1415)	0.1520 (0.1357)
Constant	-0.2508* (0.1319)	-0.3551*** (0.0676)	-0.2563*** (0.0410)	-0.0053 (1.8547)	-0.0053 (1.8547)	-1.7868 (1.7402)
Controls	No	No	No	Yes	Yes	Yes
Firm × Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	1,238	1,042	937	1,042	1,042	937
R-squared	0.0033	0.8017	0.8295	0.8062	0.8062	0.8342

Table 6
PSM-DID: Alternative Matching Variables

This table presents the robustness test of PSM-DID by using alternative sets of matching variables. Only coefficients of interest ($TREAT \times POST$) are included in this table. Columns (1) and (2) show the average treatment effects of regressions with firm and merger fixed effects. Columns (3) and (4) report the average treatment effects of regression with firm \times merger fixed effect. Standard errors are adjusted for heteroskedasticity and clustered by firm. *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are shown in the parentheses.

	(1) <i>AvgCSR</i> _[t+1, t+2]	(2) <i>AvgCSR</i> _[t+1, t+2]	(3) <i>AvgCSR</i> _[t+1, t+2]	(4) <i>AvgCSR</i> _[t+1, t+2]
Panel A: Propensity score matching on <i>SIZE</i>				
<i>TREAT</i> \times <i>POST</i>	-0.5591*** (0.1915)	-0.5412*** (0.1900)	-0.4609** (0.1990)	-0.4457** (0.1987)
Panel B: Propensity score matching on <i>SIZE/TOBINQ</i>				
<i>TREAT</i> \times <i>POST</i>	-0.4847** (0.1875)	-0.4794** (0.1870)	-0.4108** (0.1936)	-0.4106** (0.1953)
Panel C: Propensity score matching on <i>SIZE/TOBINQ/INSTO</i>				
<i>TREAT</i> \times <i>POST</i>	-0.4901*** (0.1863)	-0.5023*** (0.1863)	-0.3941** (0.1893)	-0.3973** (0.1904)
Panel D: Propensity score matching on <i>SIZE/TOBINQ/RETA</i>				
<i>TREAT</i> \times <i>POST</i>	-0.4869*** (0.1877)	-0.4795** (0.1866)	-0.4076** (0.1939)	-0.4027** (0.1950)
Panel E: Propensity score matching on <i>SIZE/TOBINQ/EBITDA</i>				
<i>TREAT</i> \times <i>POST</i>	-0.4726** (0.1871)	-0.4736** (0.1852)	-0.3812** (0.1913)	-0.3897** (0.1905)
Panel F: Propensity score matching on <i>SIZE/TOBINQ/RETA/INSTO</i>				
<i>TREAT</i> \times <i>POST</i>	-0.4935*** (0.1864)	-0.5049*** (0.1864)	-0.3941** (0.1893)	-0.3973** (0.1904)
Panel G: Propensity score matching on <i>SIZE/TOBINQ/EBITDA/INSTO</i>				
<i>TREAT</i> \times <i>POST</i>	-0.4973*** (0.1897)	-0.4842** (0.1872)	-0.3924** (0.1937)	-0.3798* (0.1933)
Controls	No	Yes	No	Yes
Firm \times Merger FE	No	No	Yes	Yes
Firm FE	Yes	Yes	No	No
Merger FE	Yes	Yes	No	No

Table 7
Excluding the Merger between BlackRock and Barclays Global Investors

This table presents the effect of institutional cross-blockholding on corporate social responsibility when excluding the merger between BlackRock and Barclays Global Investors. The dependent variable is $AvgCSR_{[t+1, t+2]}$. All the model specifications are the same as those in Table 5. Columns (1) and (4) show results without any fixed effects. Columns (2) and (5) show results with merger fixed effect. Columns (3) and (6) report results with firm \times merger fixed effect. Results without control variables are presented in Columns (1)-(3). Columns (4)-(5) show results with control variables as those in baseline regressions. Standard errors are adjusted for heteroskedasticity and clustered by firm. *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are shown in the parentheses.

	(1) $AvgCSR_{[t+1, t+2]}$	(2) $AvgCSR_{[t+1, t+2]}$	(3) $AvgCSR_{[t+1, t+2]}$	(4) $AvgCSR_{[t+1, t+2]}$	(5) $AvgCSR_{[t+1, t+2]}$	(6) $AvgCSR_{[t+1, t+2]}$
<i>TREAT</i> \times <i>POST</i>	-0.6028*** (0.1675)	-0.4475*** (0.1519)	-0.3550** (0.1414)	-0.5808*** (0.1669)	-0.4099*** (0.1565)	-0.3411** (0.1387)
<i>TREAT</i>	0.0558 (0.1330)	0.0958 (0.0608)		0.1860 (0.1325)	0.0299 (0.0701)	
<i>POST</i>	0.2150** (0.1092)	0.2069** (0.0881)	0.1680** (0.0828)	0.2070* (0.1108)	0.1751* (0.0901)	0.1515* (0.0865)
Constant	-0.2194** (0.0984)	-0.1982*** (0.0339)	-0.1586*** (0.0307)	-2.4049** (1.0714)	-0.7927 (1.6661)	-1.7171 (1.4870)
Controls	No	No	No	Yes	Yes	Yes
Firm \times Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	1,790	1,602	1,543	1,790	1,602	1,543
R-squared	0.0059	0.8238	0.8461	0.1002	0.8272	0.8483

Table 8
Strengths and Concerns

This table presents the effect of institutional cross-blockholding on firms' performance on CSR strengths and concerns in the difference-in-differences analysis. Panel A shows the effect of institutional cross-blockholding on CSR strengths. Panel B shows the effect of institutional cross-blockholding on CSR concerns. Columns (1) and (4) show results without any fixed effects. Columns (2) and (5) show results with merger fixed effect. Columns (3) and (6) report results with firm×merger fixed effect. Results without control variables are presented in Columns (1)-(3). Columns (4)-(5) show results with control variables as those in baseline regressions. Standard errors are adjusted for heteroskedasticity and clustered by firm. *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are shown in the parentheses.

Panel A: Strengths

	(1)	(2)	(3)	(4)	(5)	(6)
	<i>AvgSTR</i> _[t+1, t+2]	<i>AvgSTR</i> _[t+1, t+2]	<i>AvgSTR</i> _[t+1, t+2]	<i>AvgSTR</i> _[t+1, t+2]	<i>AvgSTR</i> _[t+1, t+2]	<i>AvgSTR</i> _[t+1, t+2]
<i>TREAT</i> × <i>POST</i>	-0.1727*	-0.1034	-0.0483	-0.1658*	-0.0857	-0.0549
	(0.1043)	(0.0898)	(0.0886)	(0.0970)	(0.0899)	(0.0878)
<i>TREAT</i>	0.0828	0.0949**		0.0345	0.0583	
	(0.1050)	(0.0411)		(0.0850)	(0.0434)	
<i>POST</i>	-0.0256	-0.0250	-0.0273	-0.0916*	-0.0565	-0.0494
	(0.0563)	(0.0455)	(0.0442)	(0.0544)	(0.0458)	(0.0454)
Constant	1.0871***	1.0814***	1.1134***	-5.2060***	-0.4648	-0.7684
	(0.0669)	(0.0165)	(0.0163)	(0.7179)	(0.8269)	(0.8626)
Controls	No	No	No	Yes	Yes	Yes
Firm×Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	3,778	3,720	3,475	3,778	3,720	3,475
R-squared	0.0004	0.8693	0.8882	0.3413	0.8703	0.8892

Panel B: Concerns

	(1)	(2)	(3)	(4)	(5)	(6)
	<i>AvgCON</i> _[t+1, t+2]	<i>AvgCON</i> _[t+1, t+2]	<i>AvgCON</i> _[t+1, t+2]	<i>AvgCON</i> _[t+1, t+2]	<i>AvgCON</i> _[t+1, t+2]	<i>AvgCON</i> _[t+1, t+2]
<i>TREAT</i> × <i>POST</i>	0.2744*** (0.0866)	0.3120*** (0.0778)	0.2769*** (0.0739)	0.2568*** (0.0846)	0.3017*** (0.0779)	0.2593*** (0.0739)
<i>TREAT</i>	-0.0841 (0.0965)	-0.0171 (0.0429)		-0.1305* (0.0772)	-0.0240 (0.0473)	
<i>POST</i>	-0.1788*** (0.0449)	-0.2158*** (0.0409)	-0.2079*** (0.0402)	-0.2446*** (0.0452)	-0.2300*** (0.0427)	-0.2183*** (0.0407)
Constant	1.5027*** (0.0537)	1.5040*** (0.0149)	1.5134*** (0.0142)	-1.8547*** (0.4166)	0.4690 (0.6743)	1.1786* (0.6590)
Controls	No	No	No	Yes	Yes	Yes
Firm × Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	3,778	3,720	3,475	3,778	3,720	3,475
R-squared	0.0036	0.8163	0.8448	0.2181	0.8188	0.8471

Table 9
Institutional Cross-blockholding and Performance in CSR Dimensions

This table reports the effect of institutional cross-blockholding on firms' performance in different CSR dimensions. CSR dimensions include Community (*COM*), Workforce diversity (*DIV*), Employee relations (*EMP*), Environment impact (*ENV*), and Product quality (*PRO*). The dependent variable is the 2-year average of CSR score in each dimension. Results for CSP in Community, Workforce diversity, Employee relations, Environment impact, and Product quality dimensions are shown in Panels A, B, C, D, and E, respectively. Columns (1) and (4) show results without any fixed effects. Columns (2) and (5) show results with merger fixed effect. Columns (3) and (6) report results with firm×merger fixed effect. Results without control variables are presented in Columns (1)-(3). Columns (4)-(5) show results with control variables as those in baseline regressions. Standard errors are adjusted for heteroskedasticity and clustered by firm. *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are shown in the parentheses.

Panel A: Community

	(1)	(2)	(3)	(4)	(5)	(6)
	<i>AvgCOM</i> _[t+1, t+2]	<i>AvgCOM</i> _[t+1, t+2]	<i>AvgCOM</i> _[t+1, t+2]	<i>AvgCOM</i> _[t+1, t+2]	<i>AvgCOM</i> _[t+1, t+2]	<i>AvgCOM</i> _[t+1, t+2]
<i>TREAT</i> × <i>POST</i>	0.0039 (0.0307)	0.0168 (0.0275)	0.0223 (0.0276)	0.0057 (0.0309)	0.0182 (0.0277)	0.0242 (0.0276)
<i>TREAT</i>	-0.0252 (0.0266)	-0.0101 (0.0136)		-0.0240 (0.0256)	-0.0128 (0.0140)	
<i>POST</i>	0.0649*** (0.0165)	0.0598*** (0.0151)	0.0626*** (0.0151)	0.0567*** (0.0175)	0.0532*** (0.0156)	0.0595*** (0.0153)
Constant	0.0516*** (0.0161)	0.0514*** (0.0054)	0.0516*** (0.0055)	-0.3591 (0.2212)	0.5085* (0.2836)	0.4482 (0.3134)
Controls	No	No	No	Yes	Yes	Yes
Firm×Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	3,778	3,720	3,475	3,778	3,720	3,475
R-squared	0.0048	0.7506	0.7908	0.0638	0.7530	0.7923

Panel B: Workforce diversity

	(1)	(2)	(3)	(4)	(5)	(6)
	<i>AvgDIV</i> _[t+1, t+2]	<i>AvgDIV</i> _[t+1, t+2]	<i>AvgDIV</i> _[t+1, t+2]	<i>AvgDIV</i> _[t+1, t+2]	<i>AvgDIV</i> _[t+1, t+2]	<i>AvgDIV</i> _[t+1, t+2]
<i>TREAT</i> × <i>POST</i>	-0.2222*** (0.0806)	-0.1898*** (0.0724)	-0.1458** (0.0729)	-0.2151*** (0.0780)	-0.1777** (0.0721)	-0.1429* (0.0730)
<i>TREAT</i>	0.1431* (0.0730)	0.0564 (0.0368)		0.1302* (0.0696)	0.0395 (0.0399)	
<i>POST</i>	-0.3774*** (0.0397)	-0.3835*** (0.0332)	-0.3837*** (0.0331)	-0.3804*** (0.0387)	-0.3843*** (0.0337)	-0.3744*** (0.0340)
Constant	0.0213 (0.0456)	0.0311** (0.0121)	0.0408*** (0.0123)	-2.9050*** (0.4607)	-1.8950*** (0.5867)	-2.1314*** (0.5873)
Controls	No	No	No	Yes	Yes	Yes
Firm × Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	3,778	3,720	3,475	3,778	3,720	3,475
R-squared	0.0261	0.8240	0.8463	0.2251	0.8288	0.8516

Panel C: Employee relations

	(1)	(2)	(3)	(4)	(5)	(6)
	<i>AvgEMP</i> _[t+1, t+2]	<i>AvgEMP</i> _[t+1, t+2]	<i>AvgEMP</i> _[t+1, t+2]	<i>AvgEMP</i> _[t+1, t+2]	<i>AvgEMP</i> _[t+1, t+2]	<i>AvgEMP</i> _[t+1, t+2]
<i>TREAT</i> × <i>POST</i>	-0.1106* (0.0609)	-0.1342** (0.0587)	-0.1268** (0.0549)	-0.1052* (0.0609)	-0.1283** (0.0582)	-0.1224** (0.0542)
<i>TREAT</i>	0.1220** (0.0568)	0.0212 (0.0316)		0.1217** (0.0557)	0.0194 (0.0328)	
<i>POST</i>	0.1673*** (0.0285)	0.1909*** (0.0292)	0.1875*** (0.0297)	0.1682*** (0.0298)	0.1800*** (0.0303)	0.1774*** (0.0304)
Constant	-0.2475*** (0.0295)	-0.2419*** (0.0103)	-0.2330*** (0.0106)	-0.4460 (0.2851)	-0.0464 (0.5052)	0.0513 (0.5170)
Controls	No	No	No	Yes	Yes	Yes
Firm × Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	3,778	3,720	3,475	3,778	3,720	3,475
R-squared	0.0108	0.7218	0.7574	0.0323	0.7244	0.7604

Panel D: Environment impact

	(1)	(2)	(3)	(4)	(5)	(6)
	$AvgENV_{[t+1, t+2]}$	$AvgENV_{[t+1, t+2]}$	$AvgENV_{[t+1, t+2]}$	$AvgENV_{[t+1, t+2]}$	$AvgENV_{[t+1, t+2]}$	$AvgENV_{[t+1, t+2]}$
<i>TREAT</i> × <i>POST</i>	-0.0449 (0.0473)	-0.0273 (0.0448)	0.0094 (0.0445)	-0.0357 (0.0469)	-0.0252 (0.0444)	0.0019 (0.0438)
<i>TREAT</i>	-0.0940* (0.0490)	0.0434** (0.0220)		-0.0870* (0.0450)	0.0354 (0.0233)	
<i>POST</i>	0.2048*** (0.0269)	0.2263*** (0.0283)	0.2175*** (0.0273)	0.2101*** (0.0281)	0.2207*** (0.0299)	0.2038*** (0.0279)
Constant	-0.0901*** (0.0241)	-0.1150*** (0.0105)	-0.1090*** (0.0095)	-0.4266* (0.2468)	0.4607 (0.4174)	-0.2382 (0.4555)
Controls	No	No	No	Yes	Yes	Yes
Firm × Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	3,778	3,720	3,475	3,778	3,720	3,475
R-squared	0.0212	0.7134	0.7444	0.0679	0.7181	0.7491

Panel E: Product quality

	(1)	(2)	(3)	(4)	(5)	(6)
	$AvgPRO_{[t+1, t+2]}$	$AvgPRO_{[t+1, t+2]}$	$AvgPRO_{[t+1, t+2]}$	$AvgPRO_{[t+1, t+2]}$	$AvgPRO_{[t+1, t+2]}$	$AvgPRO_{[t+1, t+2]}$
<i>TREAT</i> × <i>POST</i>	-0.0732** (0.0333)	-0.0810** (0.0333)	-0.0842*** (0.0317)	-0.0724** (0.0330)	-0.0745** (0.0338)	-0.0749** (0.0313)
<i>TREAT</i>	0.0211 (0.0323)	0.0012 (0.0163)		0.0242 (0.0299)	0.0008 (0.0179)	
<i>POST</i>	0.0936*** (0.0192)	0.0972*** (0.0177)	0.0967*** (0.0175)	0.0983*** (0.0198)	0.1039*** (0.0177)	0.1027*** (0.0174)
Constant	-0.1508*** (0.0188)	-0.1482*** (0.0063)	-0.1505*** (0.0063)	0.7855*** (0.1931)	0.0384 (0.2711)	-0.0769 (0.2749)
Controls	No	No	No	Yes	Yes	Yes
Firm × Merger FE	No	No	Yes	No	No	Yes
Firm FE	No	Yes	No	No	Yes	No
Merger FE	No	Yes	No	No	Yes	No
Observations	3,778	3,720	3,475	3,778	3,720	3,475
R-squared	0.0069	0.7529	0.7858	0.1183	0.7552	0.7887

Table 10
Distraction Channel: Evidence from EDGAR Search Volume

This table shows the impact of institutional cross-blockholding on CSR through investor distraction measured by EDGAR search volume. Panel A shows the change of EDGAR search volume (ESV) after blockholder mergers. The ESV is calculated according to Loughran and McDonald (2017). *Total ESV*, *ESV Financial*, *ESV Non-financial* denote the total EDGAR search volume, financial filings' search volume, and non-financial filings' search volume, respectively. *Non-IRS ESV* denotes the total search volume from non-robot viewers excluding IRS, where IRS search data come from Bozanic et al. (2019). Panel B reports the cross-sectional effects of cross-blockholding on CSR across the level of investor attention before blockholder mergers. A firm is assigned to the High (Low) group if the value of the attention measure is above (below) the median of the sample. A Wald test is implemented to test the difference of ATEs between the High and the Low groups. Firm and merger fixed effects are included in the models. Control variables are the same as those in the baseline regressions. Standard errors are clustered by firm. *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are shown in the parentheses.

Panel A: Institutional cross-blockholding and investor attention

	(1)	(2)	(3)	(4)
	<i>Total ESV</i>	<i>ESV Financial</i>	<i>ESV Non-financial</i>	<i>Non-IRS ESV</i>
<i>TREAT</i> × <i>POST</i>	-0.1151*** (0.0338)	-0.1154*** (0.0345)	-0.1288*** (0.0372)	-0.1155*** (0.0338)
<i>TREAT</i>	0.3028*** (0.0260)	0.2992*** (0.0273)	0.3085*** (0.0309)	0.3030*** (0.0261)
<i>POST</i>	0.6625*** (0.0188)	0.7304*** (0.0204)	0.5968*** (0.0205)	0.6622*** (0.0188)
Constant	4.4782*** (0.3878)	3.0098*** (0.4542)	3.9322*** (0.4505)	4.4696*** (0.3882)
Controls	Yes	Yes	Yes	Yes
Firm FE	Yes	Yes	Yes	Yes
Merger FE	Yes	Yes	Yes	Yes
Observations	3,396	3,396	3,396	3,396
R-squared	0.8330	0.8407	0.7908	0.8329

Panel B: Cross-sectional effects across investor attention

	(1)	(2)	(3)	(4)
	<i>AvgCSR</i> _[t+1, t+2]	<i>AvgCSR</i> _[t+1, t+2]	<i>AvgCSR</i> _[t+1, t+2]	<i>AvgCSR</i> _[t+1, t+2]
<i>TREAT</i> × <i>POST</i> × <i>High Total ESV</i>	-0.1819 (0.2229)			
<i>TREAT</i> × <i>POST</i> × <i>Low Total ESV</i>	-0.5602*** (0.1338)			
<i>TREAT</i> × <i>POST</i> × <i>High ESV Financial</i>		-0.1572 (0.2098)		
<i>TREAT</i> × <i>POST</i> × <i>Low ESV Financial</i>		-0.6041*** (0.1368)		
<i>TREAT</i> × <i>POST</i> × <i>High Non-financial ESV</i>			-0.1313 (0.2277)	
<i>TREAT</i> × <i>POST</i> × <i>Low Non-financial ESV</i>			-0.5819*** (0.1333)	
<i>TREAT</i> × <i>POST</i> × <i>High Non-IRS ESV</i>				-0.1819 (0.2229)
<i>TREAT</i> × <i>POST</i> × <i>Low Non-IRS ESV</i>				-0.5602*** (0.1338)
Controls, Firm FE, Merger FE	Yes	Yes	Yes	Yes
Observations	3,396	3,396	3,396	3,396
R-squared	0.7975	0.7976	0.7976	0.7975
Difference: High-:Low	0.3783* [0.0985]	0.4468** [0.0401]	0.4505* [0.0531]	0.3783* [0.0985]

Table 11
Distraction Channel: Evidence from Shareholder Proposals

This table reports the impact of institutional cross-blockholding on firms' proposals on socially responsible investment (SRI). The percentage and number of all SRI proposals and passed SRI proposals are used in this analysis. The dependent variables $\%SRI_{t+1}$, $\%SRI_PASS_{t+1}$, NUM_SRI_{t+1} , and $NUM_SRI_PASS_{t+1}$ denote the percent of proposals on SRI, the percent of passed proposals on SRI, the number of proposals on SRI, and the number of passed proposals on SRI, respectively. Panel A shows the results for the percentage of SRI proposals, and Panel B reports the results for the number of SRI proposals. The shareholder proposals data come from the ISS Shareholder Proposals database. The independent variable and control variables are the same as those in the baseline regressions. Firm and industry×year fixed effects are included to control for the invariant factors on firm and all factors at the industry level. Industries are classified by Fama-French 48 Industries. Standard errors are adjusted for heteroskedasticity and clustered by firm. *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are shown in the parentheses. For brevity, we only report coefficients of interest and constant terms.

Panel A: Percentage of proposals on SRI

	(1) $\%SRI_{t+1}$	(2) $\%SRI_{t+1}$	(3) $\%SRI_PASS_{t+1}$	(4) $\%SRI_PASS_{t+1}$
<i>CROSS_DUM</i>	-0.0216*** (0.0081)	-0.0210*** (0.0080)	-0.0042* (0.0022)	-0.0045* (0.0023)
Constant	0.0729*** (0.0058)	0.0770 (0.0890)	0.0046*** (0.0016)	0.0021 (0.0166)
Controls	No	Yes	No	Yes
Firm FE	Yes	Yes	Yes	Yes
Industry×Year FE	Yes	Yes	Yes	Yes
Observations	5,893	5,893	5,893	5,893
R-squared	0.4459	0.4468	0.2162	0.2182

Panel B: Number of proposals on SRI

Variables	(1) <i>NUM SRI_{t+1}</i>	(2) <i>NUM SRI_{t+1}</i>	(3) <i>NUM SRI PASS_{t+1}</i>	(4) <i>NUM SRI PASS_{t+1}</i>
<i>CROSS_DUM</i>	-0.0169* (0.0091)	-0.0158* (0.0089)	-0.0032* (0.0017)	-0.0033* (0.0017)
Constant	0.0864*** (0.0066)	0.1111 (0.1088)	0.0039*** (0.0012)	-0.0035 (0.0214)
Controls	No	Yes	No	Yes
Firm FE	Yes	Yes	Yes	Yes
Industry×Year FE	Yes	Yes	Yes	Yes
Observations	5,893	5,893	5,893	5,893
R-squared	0.5467	0.5473	0.2183	0.2193