Opening the black box: internal capital markets and managerial power in conglomerates

Glaser, M.; Lopez-de-Silanes, F.; Sautner, Z.

Citation for published version (APA):

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: https://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.
Opening the Black Box: 
Internal Capital Markets and Managerial Power in Conglomerates

Markus Glaser
University of Mannheim
Chair of Banking and Finance, L5, 2
68131 Mannheim, Germany
glaser@bank.bwl.uni-mannheim.de

Florencio Lopez-de-Silanes
EDHEC Business School
393, Promenade des Anglais
06202 Nice, France
florencio.lopezdesilanes@edhec.edu

Zacharias Sautner
University of Amsterdam &
Duisenberg school of finance
Roetersstraat 11
1018WB Amsterdam, The Netherlands
z.sautner@uva.nl

This version: February 2010

This paper was previously titled “Looking Inside a Conglomerate: Efficiency of Internal Capital Allocation and Managerial Power Within a Firm”. We would like to thank Martin Artz, Marc Deloof (our EFA discussant), Ingolf Dittmann, Michel Habib, Roman Inderst, Rajkamal Iyer, Li Jin, Ernst Maug, Enrico Perotti, Rafael Repullo, Markus Schmid, Henri Servaes, Amit Seru (our AFA discussant), Andrei Shleifer, Javier Suarez, Belen Villalonga, Alexander Wagner, David Yermack, and seminar participants at AFA Meetings 2009 in San Francisco, University of Texas at Austin, University of Amsterdam, Tilburg University, the London Business School, the University of Zurich, the 6th Oxford Finance Summer Symposium, the European Summer Symposium in Financial Markets in Gerzensee, the 34th Annual Meeting of the European Finance Association 2007 in Ljubljana, the Workshop on Internal Capital Markets at the University of Antwerp, China International Conference of Finance 2009, the 14th Annual Meeting of the German Finance Association (DGF) in Dresden, the Workshop on Corporate Governance and Executive Compensation at the University of Mannheim, and the Final ECGTN Conference in Barcelona for helpful comments. Financial support from the Deutsche Forschungsgemeinschaft (DFG) is gratefully acknowledged. All errors are our own.
Opening the Black Box:
Internal Capital Markets and Managerial Power in Conglomerates

Abstract
How do firms allocate capital internally across units? Do more powerful and better connected managers inside a conglomerate get larger capital allocations? To answer these questions, we put together a unique five-year business-unit panel data set on planned and actual capital allocations inside a world-wide conglomerate with 5 divisions and 22 business units, and construct measures of managerial power and connections from profile data and a questionnaire carried out for unit CEOs. Our conglomerate seems to be exposed to the same kind of frictions in capital allocation and investment as documented in previous studies for other conglomerates. In the search for a potential channel behind such frictions, we test if cash windfalls at the headquarters are distributed inside the conglomerate according to managerial power or connections. In contrast to planned capital allocations, which are not affected by connections, we find that units with more powerful and better connected managers get substantially larger parts of the windfalls. Our estimates show powerful managers increasing their actual vs. planned investment between 10 and 32% more than their less powerful peers. These results are not explained by managers’ abilities or an endogenous allocation of managers across units. In support of bargaining power theories, our results provide direct empirical evidence of an important channel behind frictions in capital allocation inside firms.

Keywords: Internal Capital Allocation, Internal Capital Markets, Power Inside the Firm, Managerial Power, Capital Budgeting

JEL Classification Code: G14, G31, G32, D80
1. Introduction

How do firms allocate capital internally? Do units with better investment opportunities receive larger capital allocations and invest more? Are units run by more powerful or better connected managers favored with higher investment budgets? Stein (2003) and Maksimovic and Phillips (2007) provide a comprehensive review of the bright and the dark side theories of internal capital markets initially studied by Gertner, Scharfstein and Stein (1994). The efficient internal capital markets view holds that capital allocation inside a firm is the result of a process of pooling the internally generated cash flows of all units and subsequently allocating funds to their best use across units (e.g., Weston, 1970, Williamson, 1975, Matsusaka and Nanda, 2002, Maksimovic and Phillips, 2002). Through winner-picking methods, internal capital markets may add value as the firm gives larger allocations to those units with higher investment opportunities (e.g., Stein, 1997). In these models, capital allocation is mainly determined by the investment prospects of a unit (e.g., marginal Tobin’s Q).

An alternative view suggests that investment opportunities may not be the only driving force behind capital allocations and that units run by more powerful or better connected managers may succeed in attracting larger allocations beyond their opportunities. These ideas have been formalized in inefficient internal capital market models such as Meyer, Milgrom, and Roberts (1992), Scharfstein and Stein (2000), Rajan, Servaes, and Zingales (2000), and Wulf (2009) among others. These models assume that unit CEOs have a preference for larger capital allocations (e.g., for rent-seeking or empire building reasons) and thus try to get more funds allocated to their units through the use of so-called influence activities. Influence activities are costly and inefficient due to the amount of resources spent on affecting allocations and the potentially suboptimal final investment decisions. The basic prediction of these models is that capital allocation is influenced by the power of unit managers vis-à-vis the CEO and not investment prospects alone.1

1 Some inefficient internal capital market theories also focus on agency problems at the CEO level. These agency models predict that CEOs try to allocate more capital to those units which would entrench them more (e.g., units where they have more human capital or experience), which could provide them with private benefits (e.g., Stulz, 1990), or where they can expect some future favors from the receiving managers. While these models have been able to explain rather well general overinvestment of conglomerates and free cash flow problems, they have more difficulties explaining the internal misallocation of funds inside conglomerates (see Rajan, Servaes and Zingales, 2000).

2 These models focus on the activities and the power of managers operating below the CEO to explain the allocation of capital inside firms. In Meyer, Milgrom, and Roberts (1992), unit managers are modeled as rent-seeking agents trying to influence the CEO to get larger capital allocations (e.g., by overstating their own units’ prospects or by exercising bargaining power and lobbying activities). In the same spirit, Scharfstein and Stein (2000) show that division managers can raise their bargaining power to extract larger benefits from the CEO by pursuing rent-seeking activities. As a result of the agency conflict between managers and shareholders, these benefits take the form of preferential capital allocations rather than higher compensation. Unit managers may derive utility from larger capital allocations, as in the classic empire-building view of the agency literature. Rajan, Servaes, and Zingales (2000) show that internal distortions in the allocation of capital can arise even if CEOs are acting on behalf of shareholders.
Although there has been substantial theoretical progress on internal capital markets, empirical evidence on the topic has been hard to come by. Similar to the situation of the internal labor markets literature, described by Baker and Holmstrom (1995) as in a stage of “too many theories, too few facts,” empirical research on internal capital markets may benefit from “… studies of personnel records, supplemented by interviews and institutional facts” (Baker and Holmstrom, 1995). We follow this line of thinking and the work of Baker, Gibbs, and Holmstrom (1994a, 1994b) who test internal labor market theories based on detailed internal data from a single firm. In this paper, we study the internal capital allocation process and its connection to unit managers’ power and connectedness inside a large world-wide conglomerate.

Our analysis relies on two databases we put together. First, we were granted access by the conglomerate to a proprietary detailed data set on planned and actual capital allocations at the business unit level. The information comes from the internal management accounting system providing quarterly data on planned capital allocations and monthly data on actual (realized) capital allocations of each of the five divisions and the 22 business units of our conglomerate between 2002 and 2006.

Second, to generate measures of unit managers’ power and connectedness, we created a second database for the managers of all divisions and business units inside the conglomerate. Throughout our five year period, there were 13 different Division CEOs and 43 different Business Unit CEOs. There are three main sources for this database. First, we use management profile data from BoardEx and Zoominfo for all division and business unit managers. Second, we complemented and cross-checked this data with information from social networking web pages, annual reports, and a systematic web and newspaper search. From these sources, we construct several measures of manager characteristics and histories to proxy for power and connectedness. Some of these measures follow previous studies (e.g., Cohen, Frazzini, and Malloy, 2008, Landier, Nair, and Wulf, 2009, Bandiera, Barankay, and Rasul, 2009, Fracassi, 2008, Ryan and Wiggins, 2004 and Berger, Ofek, and Yermack, 1997). Finally, for the 43 Business Unit CEOs, we were able to complement the management profile data with information from an internal questionnaire that we designed and ran ourselves. The survey contains both self-constructed questions and other questions previously used in the management and sociology

---

3 A notable exception is the recent work by Graham, Harvey, and Puri (2009) who survey CEOs and CFOs to understand how capital is allocated inside firms. They document what kind of allocation rules firms use, and how decision-making authority is delegated.
4 Our data analysis will focus on the business unit level as the divisions do not have operating activities themselves and only form a roof for the business units therein.
5 BoardEx data has recently also been used by Cohen, Frazzini, and Malloy (2008). Cohen, Frazzini, and Malloy (2009) have also exploited Zoominfo data.
6 Survey methodology has recently also been used in Kaplan, Klebanov and Sorenson (2008) to link managerial characteristics elicited in a questionnaire and corporate financial outcomes.
literature to measure influence and power (e.g., Podolny and Baron, 1997, and Forret and Dougherty, 2001, 2004). The survey allows us to construct two complementary indexes measuring a manager’s networking activities and his/her connection to higher management.

Before we look at the effects of the power of unit CEOs on capital allocation, we begin our analysis by showing that our conglomerate seems to be exposed to the same kind of frictions in capital allocation and investment behavior as documented in previous studies. First, following Berger and Ofek’s (1995) methodology, we find that the discount of our conglomerate is 15% on average over the sample period, hence comparable with that of other large conglomerates (see Berger and Ofek, 1995, and Lang and Stulz, 1994). Second, we compare the investment rates of the conglomerate’s business units with those of matched stand-alone firms. We find that, consistent with other papers (e.g., Rajan, Servaes, and Zingales, 2000, Berger and Ofek, 1995), the units of our conglomerate seems to overinvest compared to matched stand-alone firms. Third, we follow Ozbas and Scharfstein (2008) and compare the sensitivity of investment to investment opportunities of the business units with those of matched stand-alone firms. Consistent with Ozbas and Scharfstein (2008), our results also show that the conglomerate’s business units generally show a lower sensitivity of investment to Tobin’s Q (compared to the comparable stand-alone firms). Finally, we follow the division-level analysis in Shin and Stulz (1998) and find that, consistent with their findings, investment by a given division depends on the cash flow of the firm’s other divisions, but much less than on cash flow available to the own division (i.e., they might overinvest if large amounts of free cash flow are available). Overall, this evidence suggests that the investment of individual divisions is not sufficiently insulated from its own operating cash flows and that the documented overinvestment might be driven by large amounts of free cash flow.\footnote{These results are also in accordance with the findings in Gertner, Powers, and Scharfstein (2002) as they find that spun-off business units are significantly more sensitive to measures of investment opportunities than when they were part of the conglomerate.}

Although the documented behavior of the conglomerate and its units provides suggestive evidence against the classic arguments of efficient internal capital market theories, we still lack evidence on the potential channels behind frictions in capital allocation. The main contribution of our paper lies in the ability of our data to empirically document the effect of power and connections on capital allocation.

To identify this effect, we follow a method similar to that in Blanchard, Lopez-de-Silanes, and Shleifer (1994), who analyze firms’ behavior after an unexpected cash windfall. During our sample
period, our conglomerate faces several cash windfalls resulting from headquarters’ sales of equity stakes in other companies whose activities are largely unrelated to the current activities of the units. The windfalls are substantial, varying from 4 to 10% and 24 to 84% of the firm’s annual sales and operations cash flow, respectively. The units have not considered these cash windfalls in their submitted and approved planned capital allocation budgets. Nonetheless, these cash flows are partially available for investments of the business units \textit{ex post}. We show that about 20% of the proceeds resulting from the windfalls are used for investment inside the conglomerate.

For a set of reasons, the equity sales are largely exogenous to the business and division managers and their units and the analysis of windfalls thus provides a suitable scenario to test our theories.

First, the equity stakes were held and managed by the headquarters and did not form parts of the business units’ assets. The selling decisions were therefore also made at the headquarters level and the unit managers were not involved in these decisions. Second, our sample firm is neither financially constrained nor in need of cash to finance investment opportunities of the various units. The sale of the stakes was therefore not endogenous in the sense that the assets were sold to finance investments of the conglomerate’s units (see Hovakimian and Titman, 2002). Third, the activities of the companies in which the equity stakes were sold were unrelated to the activities of the business units in most, namely five out of eight, cases. In the three cases were the activities were related to those of some units, this was mainly because the companies were suppliers of some goods, the sale of the stakes implied only small reductions of the equity investments in these companies. We will also show that our results are robust to excluding those units from the sample which had business relations (these were two units). In all eight cases, the stakes were sold as they were considered non-strategic assets, the firm wanted to exploit market opportunities, and it wanted to reduce the exposure to cyclical industries.

Studying the effects of power on the distribution of cash windfalls rather than on planned capital budgets also has the advantage of mitigating the potential reverse causality problem between planned budgets and power: historically high planned capital allocations could themselves be a driver of managerial power inside the organizations.

Our methodology exploits the availability of planned investment data and studies the effects of the cash windfall on how business unit investment actually changes \textit{relative} to what was initially filed in the plans. Looking at the change of actual relative to planned investment, rather than at actual investment only, allows us to largely control for investment opportunities which may differ across units (these differences should be reflected in the planned budgets).

Investment rates generally increase throughout business units when cash windfalls arrive: quarterly investment increases by about 21% on average. But the investment increase is far from
homogeneous and some of the variance can be explained by the different degrees of power and connections of business and division unit managers. We find according to several measures of power that unit managers with more power and better connections get significantly larger parts of the cash windfalls. This leads to unit managers with more bargaining power or better connections increasing their investment substantially more than the rest. The estimated economic magnitudes are large even after directly controlling for proxies of investment opportunities (e.g., imputed Tobin’s Q or internal measures of the firm), unobserved business unit heterogeneity, and clustering of standard errors at the business unit level.

For example, following a windfall, a unit’s actual investment (relative to what has been planned) increases by 32% if the tenure of a Business Unit CEO increases from the first to the third quartile of the distribution. Similarly, the actual investment rate increase (relative to plan) of Business Unit managers living close to the headquarters is 29%, versus a mere 5% increase for unit managers who live abroad.

Our results are robust to different alternative specifications such as: (i) the use of division fixed effects instead of business unit fixed effects to account for possible division-wide policies in the allocation of capital; (ii) pooled OLS regressions without division or business unit fixed effects and with standard errors clustered at the business unit level; (iii) specifications where standard errors are not clustered; (iv) specifications where actual capital expenditures over total assets is used as the dependent variable; (v) logit regressions where the dependent variable is a dummy which is 1 if actual capital expenditures exceeds planned capital expenditures; (vi) specifications which account for possible autocorrelation in the error term; and (vii) specifications were we drop those units from the sample which had business links with the equity stakes.

In the robustness section, we also address two potential concerns about the main results of the paper. First, we show that our results are unlikely to be driven by an endogenous allocation of (powerful) managers to units with the best investment opportunities. Second, we address the issue of a potential relation between our power measures and management ability. We conduct a series of tests to show that these measures are unlikely to proxy for ability. First, we try to develop a direct proxy for managers’ ability by collecting information on whether the unit CEOs hold a degree from an elite university and if they hold non-executive director positions outside of the firm. One could argue that more able managers are more likely to hold a degree from a top university. Moreover, one could argue that more able managers would have a higher outside visibility and would therefore be more likely to be hired as non-executives by other firms. Our results are robust to the inclusion of these two variables in the regressions. Second, if power captured ability we would expect our proxies to be positively related to the unit’s operating performance. Using different measures of operating performance, we do
not find such relations in the data. Finally, our power measures do not seem to be related to ex ante (planned) allocations of capital, which does not support the link between our measures and management ability either.\(^8\)

Overall, our evidence suggests that power and connections do not play a strong role in the normal capital allocation process which may include mechanisms that try to reduce influence activities. Rather it is during instances of unpredicted or ad hoc cash windfalls when managerial power comes into play as the institutionalized and structured budgeting processes in the firm are less likely to be binding then.\(^9\)

Our results complement those in Rajan, Servaes, and Zingales (2000) and in McNeil and Smythe (2009) who study the effect of managerial power in the capital allocation process for a large cross-section of firms. Although our paper is only about a single conglomerate, it has the benefit of providing detailed data of the power structures inside the firm as well as on planned and actual capital allocations at the business-unit level. In this sense, our paper, along with those of Cremers, Huang, and Sautner (2009) and Xuan (2009), starts to fill in the empirical gap stressed by Schoar (2002) and Maksimovic and Phillips (2002, 2007). They argue for the need to look inside the corporation to understand governance structures and their connection with resource allocation and management decision at different levels.\(^10\)

The rest of this paper is organized as follows. Section 2 describes the conglomerate and analyzes its investment behavior. Section 3 presents our data and describes the capital allocation process inside the conglomerate. Section 4 presents the main empirical results of the association of power and connections to capital allocation. Section 5 discusses alternative explanations and provides robustness checks. Finally, Section 6 concludes.

\(^8\) We will provide a detailed description of the allocation process based on the firm’s internal documents.

\(^9\) This finding is consistent with descriptions of conglomerates’ capital allocation processes which are argued to include sophisticated and institutionalized procedures for the setting of ex ante planned allocations with close resemblance to textbook recommendations (see Anthony and Govindarajan, 2003, and Brealey, Myers, and Allen, 2006). It is also consistent with the theory and evidence on efficient capital allocation in Maksimovic and Phillips (2002).

\(^10\) There is also a related literature in the area of management accounting. Covaleski and Dirsmith (1986), for example, describe the role of politics and power in budgeting systems using interviews with nursing managers from six hospitals. Pfeffer and Salancik (1974) provide a similar analysis for universities. Abernethy and Vagon (2004) analyze the consequences of power on organizational functioning. Their data set is based on questionnaire answers which are analyzed with the help of structural equation modeling techniques. Our paper is furthermore related to the very few studies in finance which analyze internal management accounting data from one conglomerate (see, for example, Bartram, 2008 or Wagner, Miller, and Zeckhauser, 2006). A growing body of literature is also looking at the connections and power structures between firms and politicians and the effects for the allocation of capital and corporate financing policies (e.g., Leuz and Oberholzer-Gee, 2006, Fisman, 2001, Johnson and Mitton, 2003, or Faccio, 2006).
2. The Conglomerate: Organizational Structure and Investment Behavior

2.1 Organizational Structure and Financial Characteristics of the Conglomerate

Our firm is a major international conglomerate headquartered in Europe with operations around the world and more than 100,000 employees. To ensure that the conglomerate is similar to other big conglomerates, we compare a set of financial characteristics of our firm with those of other large conglomerates. As comparison firms, we look at all non-financial firms listed in the Dow Jones 30 and the Euro Stoxx 50. Table 1 shows in Panel A that our conglomerate is by no means an outlier but seems to have a slightly lower investment rate, a lower leverage ratio, and higher cash holdings. In terms of firm size, measured by total assets, our firm is in the bottom size quartile of the non-financial Euro Stoxx 50 firms.

For our subsequent analysis, it is important to note that our firm is unlikely to be financially constrained and in need of cash to finance the various units. Apart from having a relatively low leverage ratio and high cash holdings, other measures used in the literature also suggest that our firm faces low financial constraints (see Cleary, 1999, Cleary, 2006, Kaplan and Zingales, 1997, and Whited and Wu 2006). The conglomerate, for example, increased its dividend payments over the sample period. While the dividend remained unchanged from 2002 to 2004, it was significantly increased in both 2005 and 2006. Also in comparison with other non-financial EuroStoxx 50 and Down Jones 30 firms, the conglomerate has a relatively high dividend payout ratio. Furthermore, the firm initiated a share repurchase program in 2005 and paid out about 1 billion EUR to its shareholders. As argued in Hovakimian and Titman (2006), these considerations are important as the cash windfalls which we exploit later in this paper could not be considered exogenous to the business units’ capital expenditures, if the firm was financially constrained.

From an organizational point of view, our conglomerate operates world-wide with five product divisions. Each product division itself has no operating activities and consists of a number of business units which are operating under its roof. Divisions are run by Division CEOs, while the business units are managed by Business Unit CEOs. The divisions and their business units have no access to the external capital market and hence can raise neither debt nor equity. There are a total of 22 business units inside the conglomerate. The general operational structure of the conglomerate is summarized in Figure 1. Division 2, for example, has a total of eight business units underneath. The divisions govern the business units across different countries. To support and facilitate various cross-division activities, the conglomerate has a headquarters which coordinates central corporate functions such as outside financing or legal affairs. The headquarters also holds and manages a set of equity stakes in other corporations. The executive board of the firm is responsible for the day-to-day management and for all
major corporate decisions. The executive board is chaired by a CEO who was in office during the entire sample period. Each of the five divisions is run by a Division CEO. The Division CEOs are generally not part of the executive board.11 Below the Division CEOs, all business units are run by Business Unit CEOs.

Panel B of Table 1 presents descriptive statistics for the five product divisions. The numbers in each column result from the aggregation of the respective business unit numbers. The documented statistics are mean values for each division and calculated based on annual data. Tobin’s Q is an imputed number and the median Tobin’s Q of all other traded firms in the European Union which have the same 3-digit SIC code as the respective division. The table shows that the five divisions are each significant economic players, both in terms of total sales and total assets, and in terms of total number of workers employed (on average between 7,800 and 45,000 per year).

2.2 Investment Behavior of the Conglomerate

Before we look at the effects of the power and connectedness of unit CEOs on capital allocation, we begin our analysis by showing that our conglomerate seems to be exposed to the same kind of frictions in capital allocation and investment behavior as documented for other conglomerates in previous studies.

First, we calculate the firm’s conglomerate discount and thereby implicitly compute how the capital market assesses the conglomerate’s investment behavior. Using the methodology of Berger and Ofek (1995), we find that the discount of our firm is, on average, 15% over the sample period. Hence, it is comparable with what has been documented for other large conglomerates (see Berger and Ofek, 1995 or Lang and Stulz, 1994). In fact, our conglomerate almost matches the 13-15% discount which has been found for the average firm in the Berger and Ofek (1995) sample.

Second, we compare the investment rates of the conglomerate’s business units with those of matched stand-alone firms. We find that the business units of the conglomerate generally invest more than comparable stand-alone firms which operate in the same industry (see Panel A of Table 2). This finding is again consistent with related studies which document that, on average, segments of conglomerates overinvest compared to matched stand-alone firms (see Rajan, Servaes and Zingales, 2000 or Berger and Ofek, 1995).12 It is also consistent with the arguments in Jensen (1986) and Stulz (1990) who suggest that overinvestment in conglomerates is a potential source of the value loss from diversification.

11 For a limited time period within our sample, one Division CEO served also as a member of the executive board.
12 Lamont (1997) provides evidence that specific segments of conglomerates sometimes also underinvest. In his study, he shows that non-oil segments of oil firms reduce investment as a result of drops in the oil price (which are unlikely to affect the investment prospects of non-oil divisions).
Third, we use a methodology similar to the one in Ozbas and Scharfstein (2008) and compare the sensitivities of the business units’ investments to their investment opportunities with the same sensitivities of matched stand-alone firms. We find that the conglomerate’s business units generally show a lower sensitivity of investment to Tobin’s Q (compared to the comparable stand-alone firms). Consistent with what has been documented in the literature, for example in Ozbas and Scharfstein (2008), this finding suggests that our conglomerate’s investment is generally less responsive to measures of investment opportunities compared to stand-alone firms. The results are reported in Panel B of Table 2.

Fourth, we compare the investment-cash flow-sensitivity of the divisions of the conglomerate with the sensitivities documented in studies using division-level data (e.g., Shin and Stulz, 1998). This analysis allows us to construct a first measure of the functioning of the firm’s internal capital market. We closely follow the approach used in Shin and Stulz (1998) and regress investment of a division on its cash flow, proxies for division investment opportunities, and on the cash flow of the other divisions of the firm. To create a measure of investment opportunities, we follow Shin and Stulz (1998) and use the sales growth and a measure of (imputed) division Tobin’s Q. Furthermore, we also use division EBIT and EVA as additional proxies for investment opportunities. Our estimates, reported in Table 3, are consistent with what has been documented for conglomerates in other studies. More specifically, we find the investment behavior documented in Shin and Stulz (1998), namely, that investment by a given division depends on the cash flow of the firm’s other divisions, but much less than it depends on a division’s own cash flow. This finding suggests that the investments of individual divisions are not sufficiently insulated from their own operating cash flows, and that they might overinvest if they have large amounts of free cash flow available.

Taken together, these results show that our conglomerate seems to be exposed to the same kind of frictions which have been documented in other studies. This provides suggestive evidence against the classic arguments of efficient internal capital market theories.

---

13 For this analysis, we regress Capital Expenditures/Total Assets on Tobin’s Q of the stand alone firms, Cash Flow/Total Assets, and a interaction of a Dummy which takes the value 1 if an observation comes from one of the conglomerate’s business units with the Tobin’s Q variable as well as an interaction with the cash flow variable. Robust standard errors are clustered at the firm level.

14 We use division level data, constructed by aggregating business unit variables, to be able to compare our results with those in studies using division level data (e.g., Shin and Stulz, 1998).

15 Based on the estimates in Column 1 of Table 3, a positive one standard deviation shock to a division’s own cash flow is associated with an increase in its quarterly investment rate by 0.000125. This corresponds to about 14% of the average quarterly investment rate of a division.
3. Data and Methodology

In a next step, we investigate a potential channel behind frictions in capital allocation. We thereby try to test the predictions of theories which suggest that power struggles inside conglomerates are at the root of the observed frictions. The main contribution of our paper lies in the ability of our data to empirically document such effects of power and connections on capital allocation.

To identify the effects of power, we use a methodology which is similar to the one employed in Blanchard, Lopez-de-Silanes, and Shleifer (1994), who analyze firms’ behavior after an unexpected cash windfall. We study how power and connection inside the firm affect the allocation of capital from unexpected cash windfalls which occur at the headquarters level. Our data expands those of the papers by Rajan, Servaes, and Zingales (2000) and McNeil and Smythe (2009) by the use of two new databases on capital allocations and power and connectedness inside the conglomerate and by exploiting the allocation of capital from largely exogenous cash windfalls.

3.1 Internal Capital Allocation: Process and Data

We were granted access by the conglomerate to a proprietary detailed data set on actual and planned capital allocations at the business unit level. The information comes from the internal management accounting system and covers monthly data on actual (realized) capital allocations and quarterly data on planned allocations of business units which are operating inside the conglomerate for the period January 2002 to December 2006 (see Appendix A-1 for an overview of our data).16

The data on planned capital allocations comes from the firm’s annual capital allocation plan and is the result of a process which consists of two distinct phases.17 Figure 2 provides a graphical overview of this process, how the two phases relate to each other, what the involved parties are, and who makes what decisions and when.

The objective of the first phase, the strategic outlook, is to develop a long-term strategic business plan for the conglomerate. Therefore, the firm tries to identify future growth opportunities for

---

16 Note that most empirical studies have used data at the division level to study internal capital markets (e.g., using the Compustat segment database). Villalonga (2004) discusses the potential problems associated with using segment data for studying internal capital markets. Recent exceptions for studies using data beyond the division level to understand internal capital allocations include Schoar (2002) and Maksimovic and Phillips (2002) which use plant level data, Natividad (2008) who uses data from Hollywood studios, Gopalan, Nanda and Seru (2007) who use data from Indian Business Groups, and Cremers, Huang, and Sautner (2009) who use internal accounting data from a large banking group. With the exception of Cremers, Huang, and Sautner (2009), these studies do not look at the effects of the distribution of power and connections inside firms.

17 A detailed description of how this plan is developed is given in Appendix A-2. To describe and understand the process, we use documents provided by the firm on (i) the institutional details of the allocation process, (ii) the time line of different budgeting meetings, (iii) the managers that generally participate in these meetings, and (iv) the approval procedures for investments. The company applies the OECD principles on transfer prices for all within-firm sales. This implies that transfers within the firm are priced using the arm’s length principle, i.e. transfer prices should be the same as if the two divisions or business units involved were two independent firms which are not part of the same conglomerate. We therefore do not expect any significant reallocations of capital through transfer prices.
all divisions and their business units. The strategic outlook includes general targets for planned investments as well as the required resource allocations and serves as the coarse foundation for the internal capital allocation process. The process is highly institutionalized and structured, and it typically starts in January and ends in April of a given year, with strategic decisions being made for the three-year period starting in January of the subsequent year.

Right after the finalization of the strategic outlook, a concrete annual capital allocation plan, the second phase of the allocation process, is developed for the coming year. The objective of the annual capital allocation plan is a one-year investment plan containing detailed resource allocations for all business units. The link between the strategic outlook and the allocation plan is the breaking down of the strategic outlook into the setting of concrete investment and allocation targets.18

Discussions over the annual allocation plans start in June with the Division CEOs, based on the strategic outlook, preparing allocation targets for the coming year. They are then presented to their Business Unit CEOs for negotiations and adjustments. The Division and Business Unit CEOs then present the revised capital allocation plans to the headquarters (executive board) and joint negotiations as well as revisions take place. In October or November, the executive board decides on the concrete investment and allocation targets for the coming year. For our empirical analysis, we can employ ex ante allocation data from this plan. This data is available on a quarterly basis.

Figure 3 provides an overview of the budgeting process across different years and documents for which years data is available. Since the annual capital allocation plan is not modified, it is generally more informative than the strategic outlook whose plans are overlapping and adjusted during the three-year period.19

The process behind the concrete execution of capital expenditures for specific projects is relatively straightforward. Based on standard NPV rules, the firm requires approval by the executive board for any project which involves an investment exceeding a specific threshold.20 All investments which are below these thresholds are at the discretion of the business units and can easily and quickly be executed (e.g., buying or replacing small machines or IT). Most importantly, the conglomerate has no institutionalized and structured process and formalized rules for the allocation of cash windfalls which occur if the headquarters sells, for example, some of its equity stakes in other firms. Moreover,

---

18 The proposed annual allocation plan also translates into a complete set of planned balance sheets and income statements for each business unit, which are subsequently aggregated and consolidated at the division as well as the firm level.
19 During the year, the firm also conducts quarterly budget revisions (updates) and rolling forecasts. These revisions, for which we do not have data, are typically necessary if product demand conditions change. In our regressions, we account for potential adjustments by controlling for lagged deviations of planned EBIT from actual EBIT.
20 The respective thresholds depend on the different divisions and vary from 5 to 35 million EUR, depending on how capital intensive business units are. The input variables for the calculations of the NPVs (e.g., the cost of capital) are provided by the headquarters.
the proceeds from cash windfalls are not considered and included in the submitted and approved planned capital allocation budgets.

Overall, the internal process for capital allocations in normal situations for *ex ante* allocations resembles textbook recommendation (e.g., Anthony and Govindarajan, 2007, Brealey, Myers, and Allen, 2006 or Balakrishnan et al., 2009). However, the conglomerate has no institutionalized procedures for the *ad hoc* allocation of capital resulting from cash windfalls (i.e., for abnormal situations).

Table 4 presents descriptive statistics of the planned and actual allocation data at the business unit level. All variables are calculated based on quarterly observations. As the changing number of observations shows, the variables are available for most but not all business units and quarters. The table shows that the (*ex ante*) planned values do not exactly match the *ex post* realized ones. Planned capital expenditures, for example, are generally higher than the actual ones. This is a well-known phenomenon in the management accounting literature and called budgetary slack (see Davila and Wouters, 2005). Table 4 documents in Panel B pairwise correlations between actual and planned values. It shows that planned and actual numbers are generally highly correlated, but the correlations for many variables are far from being perfect. While the correlation between planned and actual capital expenditures, for example, is only 0.8605, the correlation between planned and actual sales is 0.9741.\(^\text{21}\)

### 3.2 Measures of Power and Connectedness

To measure power and connection inside the firm, we construct different proxies for both the Division and Business Unit CEOs. In total, there are 13 different Division CEOs and 43 different Business Unit CEOs working for the firm during the sample period. Some of these managers are still employed by the firm while others have left or retired.

We can use three main sources for our data. First, we use management profile data from BoardEx and Zoominfo for all Division and Business Unit CEOs. Second, we complement and cross-check this data with information from social networking web pages (e.g., LinkedIn, Facebook, and MySpace), annual reports, and a systematic web and newspaper search. From this data, we construct several measures of power and connectedness based on manager characteristics and histories.

We assume that managers are better connected inside the firm if they live closer to the headquarters. As in Cohen, Frazzini, and Malloy (2008) we proxy for the relation to the CEO by measuring personal connections via shared educational networks. We therefore create a dummy which

\(^{21}\) Note that the latter correlation suggests that the quality of the forecast of the expected investment profitability is rather high, implying that the internal measures of investment opportunities are of high quality.
is one if a unit manager studied at the same university as the CEO of the firm and also graduated from there in the same discipline.

Moreover, we proxy for the relation to the executive board by measuring the number of months during which a manager had a personal overlap inside a unit of the firm at some point in the past with a person which would later became an executive board member of the firm (e.g., if both worked at the same time in the same unit or the same foreign subsidiary). A similar measure of past employment network is used in Fracassi (2008). Moreover, the sociology literature has also pointed out the importance and consequences of social networks at workplaces (e.g., Podolny and Baron, 1997). We also follow the corporate governance literature and look at the tenure of managers. Following Ryan and Wiggins (2004) and Berger, Ofek, and Yermack (1997) we assume that the power and connectedness of managers increase as their tenure lengthen. Using tenure as a proxy, we try to capture the social networks of a person inside the company. We also construct a related tenure variable which directly measures the number of years a manager has been working in a powerful position at the firm (e.g., Division CEO, Business Unit CEO, or Head of Marketing). Moreover, we measure distance to the headquarters and build a dummy, Proximity to HQ, which takes the value one if a manager lives in the country where the firm originates from and has its headquarters (see Bandiera, Barankay, and Rasul, 2009, Landier, Nair, and Wulf, 2009 for similar measures). As the firm is a world-wide conglomerate, not all business units are located and run in the country of the headquarters and in its geographic proximity.

Lastly, we construct an index which measures whether a manager has characteristics which are likely to be helpful for being well connected inside the firm. This index, labeled Favorable Biographics, ranges from 0 and 4 and is formed by adding 1 when a unit manager: (1) speaks the local language; (2) has the local nationality; (3) went to the university of the CEO; (4) graduated in the same discipline (engineering) as the CEO. The first two measures are in line with Bandiera, Barankay, and Rasul (2009), while the last two are similar to the ones in Cohen, Frazzini, and Malloy (2008).

Finally, for the 43 Business Unit CEOs, we were able to complement the management profile data with information from an internal questionnaire that we designed and ran ourselves. The survey contained both self-constructed questions and other questions previously used in the management and sociology literature to measure influence and power (e.g., Podolny and Baron, 1997, and Forret and Dougherty, 2001, 2004). In the summer of 2008 we distributed, with the support of the firm and after several beta tests, a questionnaire to all 43 current and former Business Unit CEOs. We guaranteed that the survey answers are analyzed fully confidentially and anonymously for research purposes only, and that they will not be traceable. We use the survey instrument to construct measures of managers’ networking activities and their connection to higher management. In total, 20 Business Unit CEOs
returned the survey which results in a response rate of about 47%. Based on the survey, we construct two indexes. A detailed description of the underlying questions, their sources, and how these indexes are constructed is provided in Appendix A-4.

The first index, Networker Type, ranges from 0 to 5 and tries to measure to what extent a Business Unit CEO undertakes networking activities. The index is formed by adding one when a manager: (1) is a member in a fraternity; (2) is a member of a social club in the firm; (3) regularly stops by the headquarters to say Hello; (4) accepts regularly highly visible work assignments; (5) participated regularly on highly visible task forces or committees. The last three components of this indexed were developed and used in Forret and Dougherty (2001, 2004).

The second measure, Connection to Division CEO, proxies for how well connected a Business Unit CEO is to his Division CEO. The index ranges from 0 to 3 and adds one when a manager: (1) has a Division CEO as a personal mentor; (2) goes at least occasionally for lunch with the Division CEO; (3) meets the Division CEO in persona at least every two weeks. The second component again follows Forret and Dougherty (2001, 2004) while the third one is used in Podolny and Baron (1997).

Summary statistics of our power and connection proxies are reported Table 5 with correlations being documented in Appendix A-5.

3.3 Cash Windfalls

During the sample period, our conglomerate faces several cash windfalls resulting from headquarters’ sales of equity stakes in other companies (often minority holdings). The units have not considered these cash windfalls in their submitted and approved planned capital allocation budgets. Nonetheless, these cash flows are partially available for investments of the business units \textit{ex post}. The analysis of windfalls provides a suitable scenario to test our theories since the equity sales are largely exogenous to the unit managers, the divisions, and their business units.

First, the selling decisions were made at the headquarters level and the unit managers were not involved in these decisions. Moreover, the equity stakes were held and managed by the headquarters and outside the business units reach. The stakes were therefore not under the discretion of the divisions and their business units and they did not form part of the business units’ assets. With one exception, no unit manager was acting as non-executive director on the board of the companies.

Second, as documented before, our sample firm is neither financially constrained nor in need of cash to finance the investment opportunities of the various units. The sale of the stakes was therefore

---

22 During our sample period, the company did not experience cash windfalls resulting from won or settled lawsuits as exploited in Blanchard, Lopez-de-Silanes, and Shleifer (1994).

23 In one case a Division CEO was on the supervisory board of one of the firms. Our results are robust if we drop this person and its unit from the sample.
not endogenous in the sense that they were conducted to finance investments of the conglomerate’s units (see Hovakimian and Titman, 2002).

Third, the activities of the companies in which the equity stakes were sold were unrelated to the activities of the business units in most, namely, five out of eight cases. In the three cases were the activities were related to those of two of the firms business units, this was mainly because the companies were providing some supplies to the units, the sale of the equity stakes implied only small reductions of the equity investments in these companies. Moreover, our results are robust to excluding these units from the sample. In all eight cases, the stakes were mainly sold as they were considered non-strategic assets, the firm wanted to exploit market opportunities, and it wanted to reduce the exposure to cyclical industries.

Studying the effects of power and connection on the distribution of cash windfalls rather than on planned budgets is also advantageous for another reason. Instead of being the result of power and connection, high planned budgets could by itself also be a manifestation and hence driver of managerial power in organizations. This reverse causality problem in the analysis of planned capital allocation is mitigated when cash windfalls are used. As cash windfalls are not part of planned capital budgets but come on top of the existing budgets, they obviously cannot proxy for power (in contrast to historically high budgets).

We measure cash windfalls by looking at all equity stakes which have been sold by the headquarters during the sample period and which generated cash inflows of at least 500 million EUR. Table 6 provides descriptive statistics of the cash windfalls. In total, we could identify eight equity sales transactions leading to an average cash windfall of 703 million EUR, ranging from 615 to 935 million EUR. These windfalls occur in a total of 6 different quarters and the average cash windfall per windfall quarter is 938 million EUR.\(^{24}\) As is apparent from Figures 4 and 5, the cash windfalls are substantial for the conglomerate and its five divisions, and they are likely to impact the firm’s operations. The windfalls in 2005, for example, amount to 10% of the total sales of the firm, 19% of the total assets, about 84% of the cash flows from operations, four times the annual investment, and 126% of the firm’s EBIT. Panel B provides a summarized description of characteristics of the windfalls. Detailed information for each windfall is provided in Appendix A-6.

Panel C provides information on how the company used the proceeds from the windfalls. The numbers are averages calculated over the years in which the cash windfalls occurred. The table shows that almost 20% of the money from the windfalls was used for investments within the conglomerate. Importantly, 30% of the money was paid out to the firms’ shareholders in the form of dividends and dividends and

\(^{24}\) The cash windfalls occurred in Q4 2003 (one windfall), Q3 2004, Q4 2004 (two windfalls), Q2 2005, Q3 2005 (two windfalls), and Q4 2005.
share repurchases, and another 20% was used to increase cash holdings. These usages further mitigate concerns that the equity stakes were sold primarily in order to raise capital for the financing of projects. Figure 6 plots cumulative abnormal returns from a simple event study around the cash windfall announcement dates. While the market seems to initially react positive to the windfalls, this effect disappears over the next 20 trading days suggesting some skepticism by the market.

In the following, our methodology exploits the availability of planned investment data and studies the effects of the cash windfall on how business unit investment actually changes relative to what was initially filed in the plans. We will therefore study the distribution of the cash windfalls within the conglomerate by looking at the differences between actual and planned investment (i.e., between actual and planned capital allocations). The occurrence of cash windfalls which are used for investment but not included in the allocation plans cause a deviation of actual from planned investment. As can been seen from Figure 7, the actual investment across the business units of the firm is substantially closer to planned investment if a cash windfall arises. This reduction in budgetary slack is uniform across all cash windfall quarters. If managerial power or connectedness matter for the allocation of cash windfalls, we should expect that more powerful or better connected managers receive a larger piece of these cash windfalls for their own units. This should imply that their investments, compared to the units of less powerful or connected managers, increases more strongly relative to the plan.

4. The Allocation of Cash Windfalls and Managerial Power and Connectedness

In Table 7, we examine whether bargaining power and influence activities around cash windfalls can explain the differences between actual and planned capital expenditures. We regress the difference between actual and planned capital expenditures on the (log of the) cash windfalls, our power (or connection) variables, and an interaction term of the cash windfalls and the power/connection variables. The difference between actual and planned capital expenditures is scaled by the total assets of a business unit. Our managerial power or connection measures vary from regression to regression and are named in the columns above the regressions. We add the power proxies individually to the regressions to avoid problems due to multicollinearity. Table 7 reports the regression estimates using proxies of Business Unit CEO power and connection. In unreported regressions, we also run the same regressions using proxies of Division CEO power. These results will be discussed later.

In all regressions, we account for a wide range of factors, namely differences in investment opportunities, unobserved business unit heterogeneity, seasonal effects, and a set of other controls. We control for differences in investment opportunities using sales growth, EBIT divided by lagged
total assets, and lagged values of imputed Tobin’s Q. Business unit fixed effects are included to control for unobserved heterogeneity (e.g., in investment opportunities) at the business unit level. We also include lagged EBIT deviation from the plan and a Fourth Quarter Dummy as some of the business units sell substantial fractions of their products in this quarter. Time dummies are further added to account for year effects.

The regression estimates show that the cash windfalls have a positive and significant effect on the difference between actual and planned capital expenditures. Given that actual investment is generally below planned investment due to budgetary slack (see Table 4) this suggests that a typical cash windfall moves actual investment upwards towards what has been planned.\textsuperscript{25} Based on the estimates in Column 1, a cash windfall of 700 million EUR, this equals roughly an average windfall, increases the left hand side variable by 0.0017 [\(\approx \log(1+700) \times 0.0006\)]. For a given planned investment rate this suggests that the actual investment rate, i.e. capital expenditures over total assets, increases by about this number, after controlling for business unit fixed effects.\textsuperscript{26} Relative to an average quarterly investment rate of 0.0081, calculated across all no cash windfall quarters, this corresponds to a substantial increase in quarterly investment by about 21\% [\(\approx 0.0017/0.0081\)]. The regressions also show that actual and planned investments are generally closer to each other if investment opportunities, measured using EBIT/Total Assets, are better. Moreover, lagged EBIT deviations also seem to be a significant determinant of how close actual and planned investments are. More specifically, units which have been further away from their EBIT plans seem to get smaller parts of the windfalls. This is consistent with the budgeting literature which suggests that planning variances (in this case deviation between planned and actual profitability) affect next period allocations (e.g., Anthony and Govindarajan, 2007 or Balakrishnan et al., 2009).

Most importantly, we find that the investment increase is far from homogeneous and some of the variance can be explained by the different degrees of power and connections of business and division unit managers. More specifically, the results provide evidence across various measures of managerial power and connection suggesting that unit managers who have more influence within the conglomerate get a larger fraction of the windfalls for their own business units. These results hold even after controlling for performance and profitability measures as well as unobserved business unit heterogeneity.

Our results suggest that, ceteris paribus, Business Unit CEOs who have the same degree and graduated from the same university as the CEO, those who had, in the past, a relatively long overlap

\textsuperscript{25} This effect is uniform across all cash windfall quarters. In one cash windfall quarter, actual investment even exceeds what has been planned (two windfalls took place in this quarter).

\textsuperscript{26} We can assume a fixed planned investment rate as the cash windfalls were not incorporated in the annual capital allocation plan.
inside the firm with an executive board member inside the firm, those who have a relatively long tenure in the firm or in a powerful position, or those who live in the country where the headquarters is located, receive larger parts of the cash windfalls for their own units’ investments. Moreover, we find that Favorable Biographics and our survey-based measures of a manager’s networking activities and his connection to the Division CEO also significantly explain the distribution of the windfalls. In the regressions in which we use proxies for Division CEO power and connection, we find that those Division CEOs which live in proximity to the headquarters and those with longer tenure receive larger parts of the windfalls for their business units.

The estimated economic effects of power on the windfall distribution are large. Suppose a windfall of 700 million EUR arises. How do different levels of managerial power or connectedness affect how actual investment rates change relative to those that have been filed in the budgets? To illustrate these economic effects, Table 7 calculates the change in the dependent variable using the estimated power coefficients of the regressions. If we look, for example, at Proximity to HQ and at a Business Unit CEO who lives abroad we find that the change in his business unit’s actual investment rate relative to the plan is 0.00037. This corresponds to an increase in quarterly investment by only 5% \(=0.00037/0.0081\) relative to the average quarterly investment rate of 0.0081. If, to the contrary, a Business Unit CEO lives close to the headquarters, i.e. close to where the decisions are being made, his actual investment rate increases by 0.0024. This corresponds to an increase in quarterly investment relative to the plan by a substantial 29%.

To illustrate the effects of the tenure variable, we compare business units whose CEOs’ tenure is at the first quartile (i.e., 4 years and low power) with those where tenure is at the third quartile (i.e., 26 years and high power). The change in actual investment (relative to the plan) of business units where the Business Unit CEO has low power will be 0.00066 if a windfall arises. This equals about 8% of the average quarterly investment rate. On the contrary, the change in investment of units where the CEO has high tenure is substantially larger. Using again the same regressions estimates, the quarterly investment rate will change by 0.00231 or 40% relative to the average investment rate. Overall, a unit’s actual investment (relative to the plan) increases by 32% if tenure goes up from the first to the third quartile of the distribution.

Taken together, our results provide evidence consistent with the predictions of models by Meyer, Milgrom, and Roberts (1992), Scharfstein and Stein (2000), Rajan, Servaes, and Zingales (2000) or Wulf (2009), which suggest that variables which are related to the bargaining power of managers inside a firm have to be taken into account when analyzing internal capital allocations.

\(^{27}\) See Column 7 of Table 7. This is calculated as \(\log(1+700)\times(0.0001+0\times0.0006998)=0.00037\). Note that the coefficients of Managerial Power \(\times\ \log(1+\text{Cash Windfall})\) are multiplied by 1,000 in the Table 7.
5. Robustness and Alternative Explanations

5.1 Alternative Regression Specifications and Controls

As it is important for the results in Table 7 to properly control for investment opportunities, we conduct a set of robustness checks of the above results. We include various alternative measures for investment opportunities such as the planned measures of investment opportunities (e.g., Planned Sales Growth or Planned EBIT/Total Assets), past realized values, and future realized values.\(^{28}\) Moreover, we also use different measures of imputed Tobin’s Q (e.g., based on average values of comparable firms rather than based on medians). While the measures for investment opportunities are not always significant in the regressions, the coefficients of the interactions variable between power/connection and the cash windfalls remain significant across the specifications. The reported results are also robust to including sales (as a measure of business unit size), cash flows from operations (standardized by total assets), and lagged values of EBIT (standardized by total assets).

As an additional robustness check, Table 8 provides regression estimates for several alternative specifications of the baseline model reported in Table 7. These alternative specification use: (1) division fixed effects instead of business unit fixed effects to account for possible division-wide policies in the allocation of capital; (2) pooled OLS regressions without division or business unit fixed effects and with standard errors clustered at the business unit level; (3) specifications where standard errors are not clustered; (4) actual capital expenditures over total assets as the dependent variable; (5) logit regressions where the dependent variable is a dummy which is 1 if actual capital expenditures over total assets exceeds planned capital expenditures over total assets; (5) an AR(1) process for the error term to account for possible autocorrelation in the error term; (6) a sample which excludes the two units which of the conglomerate which were related to three of the eight equity stakes. The estimates show that our results are robust to such alternative regression.

5.2 Endogenous Allocation of Managers to Business Units

One alternative explanation of our findings could be an endogenous allocation of (powerful) unit managers to those units with the best investment opportunities. To investigate this possibility, we can distinguish between two possible scenarios.

\(^{28}\) The availability of measures of investment opportunities from the firm allows us to mitigate problems of measurement error in proxies for investment opportunities such as (imputed) Tobin’s Q which rely on market data from comparable firms and might be correlated with investment (see Cummins, Hasset, and Oliner, 2006, Erickson and Whited, 2000 or Whited, 2001).
In the first scenario, the most powerful managers lobby to be placed at those business units or divisions with the best investment prospects at a given point in time. The allocation of managers to certain units would then be driven by their power rather than their ability to run a specific unit. However, our data suggests that this is unlikely to be happening. First, internal job movements are of rather low frequency in our firm while measures of investment opportunities vary substantially cross-sectionally and over time. Out of all 43 Business Unit CEOs employed during the sample period, only six (or 14%) moved from running one business unit to running another one. Furthermore, there were no movements of Division CEOs across divisions during the entire sample period. Second, if we compare the power variables of the six job moving Business Unit CEOs with those of the remaining 37 ones who did not move, we cannot find any significant between-group differences. Taken together, this speaks against an endogenous allocation of powerful managers to those units which have the best investment prospects.

In the second scenario, the conglomerate could allocate managers to business units or divisions based on managerial ability and such that those units with the best prospects get the most able managers. If this scenario explains what happens and if our power proxies in fact capture ability, we should expect a positive relationship between our power variables and planned capital budgets as well as future performance. However, as we will document in Section 5.3, this does not seem to be the case. Moreover, the low frequency of job movements again suggests that such an endogenous allocation cannot be a main driver of our results.

### 5.3 Power as a Measure of Ability

One potential concern of our findings is that the power variables, in fact, capture ability. To address this concern, we conduct several robustness checks. First, we develop two direct proxies for a manager’s ability by collecting information on whether a unit CEO (i) holds a degree from an elite university (e.g., Harvard Business School) and (ii) holds a non-executive director position outside of the firm. One could argue that more able managers have a higher probability of holding a degree from an elite university. Moreover, it is plausible to assume that more able manages have a higher outside visibility and would therefore be more likely to be hired as non-executives by other firms. While these variables are certainly not perfect proxies, it is reasonable to assume that they are correlated with ability.

The first constructed dummy variable, Elite University Degree, has a sample mean of 0.33 for the Business Unit CEOs and of 0.23 for the Division CEOs. The second constructed dummy, External Director Position, has a sample mean of 0.32 for the Business Unit CEOs and of 0.82 for the Division CEOs. We include these direct proxies of managers’ ability as well as its interaction with the cash
windfall variable by amending the regressions from Table 7. The corresponding regressions are reported in Table 9 (we again do not report the Division CEO variable to save space). In Panel A, we report the results when we use elite university variable, while in Panel B we include the non-executive director variable. The estimates show that our results are robust to directly including proxies for ability in the windfall regressions with some power variables even becoming more significant. These results hold for both proxies of Business Unit and Division CEO power.

Second, if power captured ability, we could expect our proxies to be positively related to the unit’s operating performance. To see if this is the case, we regress the operating performance of the business units on our power proxies and a set of controls. We measure operating performance by looking at both Return on Assets (EBIT/Total Assets) and Sales Growth. In the regressions, we control for cash flow from operations, past investment, marketing expenditures, R&D expenditures, size (total sales), and personnel intensity. We account for unobserved heterogeneity by using business unit fixed effects, use year dummies and a dummy for the fourth quarter. The corresponding regression estimates with Return on Assets as the dependent variable are reported in Table 10. The results do not change if we use Sales Growth. The results show that across both performance measures and with one exception, we cannot detect a positive relation between performance and our power and connectedness measures. In fact, for some measures we even find a statistically significant negative relation. Our results are again robust to using the Division CEO measures.

Third, if power and connection capture ability, we should expect to find that ability (i.e., our power measures) is reflected in the planned capital budgets in the sense that more able managers get larger allocations \textit{ex ante}. In order to investigate this, Table 11 presents regressions at the business unit level in which \textit{ex ante} planned investment is regressed on our measures of Business Unit CEO power and connection (lagged by one quarter). We control for lagged values of planned EBIT divided by total assets (return on assets), a measure of capital intensity, planned sales growth, the lagged deviation of planned from actual EBIT, and include a Fourth Quarter dummy to control for seasonal effects.\footnote{This regression setup is consistent with management accounting research in which, for example, budget adjustments as a result of spending variances are analyzed (see, for example, Lee and Plummer (2007)). We include a Fourth Quarter Dummy as some of the business units sell large fractions of their products in the fourth quarter.} Having access to planning data allows us to use the profitability measures that are actually employed by the firm to assess future opportunities.

The regression estimates show that planned investment is significantly related to measures of future growth opportunities and profitability. These results are in line with neoclassical investment models, e.g., Maksimovic and Phillips (2002), which suggest that corporate resources should go to the
units with the highest growth opportunities. Interestingly, we cannot detect that our measures of power are positively related to ex ante capital allocations. This finding again holds for both measures at the Business Unit and Division CEO level. On the one hand, this finding suggests that our power variables are unlikely to proxy for ability as otherwise we should see a positive relation between planned investment and our power proxies. On the other hand, our evidence also suggests that power and connections do not play a strong role in the normal capital allocation process which may include mechanisms that try to reduce influence activities and power struggles. This finding is consistent with descriptions of conglomerates’ capital allocation processes which include sophisticated and institutionalized procedures for the setting of ex ante planned allocations with close resemblance to textbook recommendations (see Anthony and Govindarajan, 2007, Brealey, Myers, and Allen, 2006, Balakrishnan et al., 2009). Together with our previous results, this suggests that it is during instances of unpredicted or ad hoc cash windfalls when managerial power comes into play as the institutionalized and structured budgeting processes in the firm are less likely to be binding then.

5.4 Capital Expenditures from Cash Windfalls versus Normal Budgets

We have provided evidence that well connected and powerful managers can capture substantial amounts from cash windfalls to increase their own units’ investments. To better understand this channel and why investments increase so substantially during these cash windfall quarters, we conducted several structured interviews with important decision makers inside the firm. One view that was expressed there was that investment approval procedures seem to be more lax in months with large cash windfalls. As discussed in Section 2, for each actual investment, certain NPV criteria have to be fulfilled. It was argued that these approval procedures are more lax when large windfall proceeds are available. The firm thereby arguably tries to avoid that large amounts of cash accumulate in their cash accounts and cause shareholder activists to target the company. If such lax approval is more prevalent at units run by powerful managers, this could provide an explanation of our findings.

It was also stated that if money from the normal capital budget (planned capital allocations) is not spent, for example because of a lack of profitable investment opportunities, it is not available for spending by other business units of the conglomerate. Proceeds from the cash windfalls, on the other hand, are available for the distribution within the entire firm. If a unit does not capture and utilize the

30 The regression results are very similar if we use other measures of investment opportunities (e.g., Planned EVA/Total Assets) instead.
31 Planned capital expenditures are usually the upper limit for actual capital expenditures. Actual investment can be below planned investment in the cases in which not all actual investment projects have been approved by upper level managers (the headquarters) even though they have been budgeted. If planned investment is not spent, it cannot be transferred to the next year. However, there is no year-end ratcheting due to the approval procedure in which upper level managers have to decide on suggested investment projects.
available funds for its investments, it is likely to be captured and used by others. Relinquishing capital from windfalls hence implies that other units will utilize it. All managers therefore have an incentive to capture as much as possible from the windfalls.

A related question is as to why the shareholders of the conglomerate do not require the full payout out of the cash windfalls given that parts are distributed inside the firm based on power and not purely based on investment opportunities. In fact, as we have shown in Table 6, only 20% of the money from the cash windfalls is eventually paid out to the shareholders in the form of dividends or share repurchases. This amount roughly equals what is kept inside the firm for capital expenditures. While we do not have final evidence on why the shareholders do not require all the money, one explanation could be a standard free cash flow problem (see Jensen, 1986). Apart from having a relatively low leverage, the firm is widely held and does not have blockholders owning 5% or more. Moreover, the conglomerate operates in a country which is considered to have rather low anti-director and anti-self-dealing rights according to the indexes by La Porta, Lopez-de-Silanes, Shleifer, and Vishny (1998) and Djankov, La Porta, Lopez-de-Silanes, and Shleifer (2008). The general preference of the CEO to keep free cash flows inside the firm, together with rather low levels of ownership concentration and investor protection, and a general contractual incompleteness with regard to writing policies over the cash windfalls could therefore explain why not all money from the cash windfalls is paid out to the shareholders.

6. Conclusion

Combining a unique data set from the internal management accounting system of a large international conglomerate with management profile and internal survey data, we tested predictions of theories linking managerial power to capital allocation. The data provides empirical evidence of a potentially important channel behind frictions in capital allocation in multi-unit firms and conglomerates. We showed that unit managers who have more bargaining power or better connections within the conglomerate are able to extract a larger part of cash windfall for their own business unit investments. In contrast to the large importance of power and connection measures for the allocation of windfalls, the regular capital allocation process that originates planned budgets does not seem to be influenced by unit managers’ bargaining power.

Bargaining power therefore does not matter in the formalized allocation process, but exerts large influence on ad hoc distributions emerging from unpredicted or unaccounted cash windfalls. The combination of these two findings opens up interesting venues for future research to try to understand the capital allocation processes of these two types of cash flows and the aspects that may be responsible for the difference in results.
References


Table 1: Financials of the Conglomerate and Descriptive Statistics at the Division Level

Panel A presents financial variables of our conglomerate and compares them with all non-financial Euro Stoxx 50 and Dow Jones 30 firms. For the non-financial Euro Stoxx 50 and Dow Jones firms, we report means, medians, standard deviations as well as percentiles. The panel reports average values from yearly data over the period 2002 to 2006. Panel B presents descriptive statistics of all five divisions of the firm for the period 2002 to 2006. It also includes the number of business units that operate within each of the five divisions. All values are in million EUR (except for Tobin’s Q and personnel). The numbers presented are calculated as the annual year-end averages over the five years. Imputed Tobin's Q is the median Tobin’s Q of all other firms from the European Union with the same 3-digit SIC code as the respective division.

### Panel A: Financial Variables of the Conglomerate and Comparable Firms

<table>
<thead>
<tr>
<th></th>
<th>Conglomerate</th>
<th>Euro Stoxx 50 (Non-Financial Firms)</th>
<th>Dow Jones 30 (Non-Financial Firms)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>Median</td>
<td>Std. dev.</td>
</tr>
<tr>
<td>Capital Expenditures/Total Assets</td>
<td>0.032</td>
<td>0.086</td>
<td>0.074</td>
</tr>
<tr>
<td>Total Debt/Total Assets</td>
<td>0.478</td>
<td>0.643</td>
<td>0.648</td>
</tr>
<tr>
<td>Cash Holdings/Total Assets</td>
<td>0.141</td>
<td>0.105</td>
<td>0.068</td>
</tr>
<tr>
<td>Dividends/EBIT</td>
<td>0.474</td>
<td>0.255</td>
<td>0.241</td>
</tr>
</tbody>
</table>

### Panel B: Descriptive Statistics at the Division Level

<table>
<thead>
<tr>
<th>Division</th>
<th>Number of Business Units</th>
<th>Imputed Tobin's Q</th>
<th>Capital Expenditures (million EUR)</th>
<th>Sales (million EUR)</th>
<th>EBIT (million EUR)</th>
<th>Total Assets (million EUR)</th>
<th>Cash Flow from Operations (million EUR)</th>
<th>Personnel (# People)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division 1</td>
<td>4</td>
<td>2.15</td>
<td>64</td>
<td>9170</td>
<td>75</td>
<td>2329</td>
<td>241</td>
<td>15846</td>
</tr>
<tr>
<td>Division 2</td>
<td>8</td>
<td>1.94</td>
<td>104</td>
<td>6594</td>
<td>514</td>
<td>5822</td>
<td>889</td>
<td>29173</td>
</tr>
<tr>
<td>Division 3</td>
<td>1</td>
<td>1.62</td>
<td>346</td>
<td>4303</td>
<td>41</td>
<td>3957</td>
<td>970</td>
<td>33721</td>
</tr>
<tr>
<td>Division 4</td>
<td>5</td>
<td>1.27</td>
<td>173</td>
<td>5170</td>
<td>591</td>
<td>2638</td>
<td>789</td>
<td>45279</td>
</tr>
<tr>
<td>Division 5</td>
<td>4</td>
<td>1.62</td>
<td>72</td>
<td>1993</td>
<td>362</td>
<td>871</td>
<td>475</td>
<td>7835</td>
</tr>
</tbody>
</table>
Table 2: Investment Rates and Q Sensitivity of Business Units and Matched Stand-Alone Firms

Panel A compares investment rates (Capital Expenditures/Total Assets) of the conglomerate’s business units with those of matched stand-alone (focused) firms. The table reports average investment rates for the years 2002-2006 and for each individual year from 2002 to 2006. The last column contains p-values of a paired t-test comparing the investment rates of the conglomerate’s business units with those of matched stand-alone firms. The matching is conducted based on 5-digit NAICS codes. To do this, we download data from all firms in Compustat Global which operate in the same 5-digit NAICS codes as the business units in our conglomerate (“All firms”). As this NAICS code is only the main NAICS code of each potential comparison firm and a firm may also be active in another NAICS code, we identify clearly focused firms by deleting all firms which can be classified as diversified firms by looking at business segment data and first and secondary SIC codes (we use this procedure as we do not have access to secondary NAICS codes). Data on business segments and first and secondary SIC codes come from Worldscope. Firms with business segment data are deleted from “All firms”. Of the remaining sample, only firms for which the first two digits of the first and secondary SIC codes are similar are regarded as focused firms (“Focused (2SIC)”). The third set of comparison firms is constructed by analyzing only firms for which the first three digits of the first and secondary SIC codes are similar (“Focused (3SIC)”). This means we use three groups of comparison firms for our matching (“All firms”, “Focused (2SIC)”, “Focused (3SIC)”).

The number of observations for the business units is below 22 as matched firms are not available for all business units. For brevity, we only show results for the “Focused (2SIC)” group in Panel A. The results are similar when we use the larger (“All firms”) and smaller (“Focused (3SIC)”) group of comparison firms. Panel B shows fixed effects panel regression results of Capital Expenditures/Total Assets on Cash Flow/Total Assets, Cash Flow/Total Assets * Business Unit of the Firm, Tobin’s Q, and Tobin’s Q * Business Unit of the Firm. Robust standard errors are in parentheses. In Regressions (4) to (6), year fixed effects are included. Note that the data in Columns (2) and (5) correspond to the data in Panel A. The number of observations (number of matched focused firms plus business units) is lower in Panel B (354 compared to 93+308 in Panel A) as some other variables used in the regression analysis besides investment rates (Tobin’s Q, cash flow) are missing in some cases.

Panel A: Investment Rates (Capital Expenditures/Total Assets)

<table>
<thead>
<tr>
<th>Year</th>
<th>Variable</th>
<th>Obs.</th>
<th>Mean</th>
<th>Std.dev</th>
<th>25%</th>
<th>Median</th>
<th>75%</th>
<th>p-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002-2006</td>
<td>Business Units of the Firm</td>
<td>93</td>
<td>0.052</td>
<td>0.049</td>
<td>0.019</td>
<td>0.031</td>
<td>0.076</td>
<td>0.0005***</td>
</tr>
<tr>
<td></td>
<td>Matched Focused Firms</td>
<td>308</td>
<td>0.035</td>
<td>0.037</td>
<td>0.016</td>
<td>0.027</td>
<td>0.044</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Business Units of the Firm</td>
<td>19</td>
<td>0.059</td>
<td>0.050</td>
<td>0.019</td>
<td>0.032</td>
<td>0.098</td>
<td>0.0513*</td>
</tr>
<tr>
<td></td>
<td>Matched Focused Firms</td>
<td>64</td>
<td>0.038</td>
<td>0.038</td>
<td>0.019</td>
<td>0.028</td>
<td>0.042</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>Business Units of the Firm</td>
<td>19</td>
<td>0.047</td>
<td>0.038</td>
<td>0.013</td>
<td>0.036</td>
<td>0.067</td>
<td>0.4258</td>
</tr>
<tr>
<td></td>
<td>Matched Focused Firms</td>
<td>63</td>
<td>0.036</td>
<td>0.050</td>
<td>0.013</td>
<td>0.020</td>
<td>0.044</td>
<td></td>
</tr>
<tr>
<td>2004</td>
<td>Business Units of the Firm</td>
<td>19</td>
<td>0.056</td>
<td>0.048</td>
<td>0.018</td>
<td>0.033</td>
<td>0.086</td>
<td>0.0172**</td>
</tr>
<tr>
<td></td>
<td>Matched Focused Firms</td>
<td>64</td>
<td>0.034</td>
<td>0.030</td>
<td>0.016</td>
<td>0.028</td>
<td>0.046</td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>Business Units of the Firm</td>
<td>19</td>
<td>0.046</td>
<td>0.043</td>
<td>0.021</td>
<td>0.027</td>
<td>0.058</td>
<td>0.2287</td>
</tr>
<tr>
<td></td>
<td>Matched Focused Firms</td>
<td>58</td>
<td>0.034</td>
<td>0.032</td>
<td>0.016</td>
<td>0.027</td>
<td>0.044</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>Business Units of the Firm</td>
<td>17</td>
<td>0.055</td>
<td>0.069</td>
<td>0.019</td>
<td>0.029</td>
<td>0.062</td>
<td>0.0994*</td>
</tr>
<tr>
<td></td>
<td>Matched Focused Firms</td>
<td>59</td>
<td>0.034</td>
<td>0.032</td>
<td>0.017</td>
<td>0.030</td>
<td>0.042</td>
<td></td>
</tr>
<tr>
<td>Panel B: Sensitivity of Investment to Tobin's Q</td>
<td>Capital Expenditures/Total Assets</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>----------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
<td>(5)</td>
<td>(6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All firms</td>
<td>Focused (2SIC)</td>
<td>Focused (3SIC)</td>
<td>All firms</td>
<td>Focused (2SIC)</td>
<td>Focused (3SIC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash Flow/Total Assets</td>
<td>0.0047</td>
<td>0.0232</td>
<td>0.0233</td>
<td>0.0031</td>
<td>0.0201</td>
<td>0.0196</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.0106)</td>
<td>(0.0220)</td>
<td>(0.0232)</td>
<td>(0.0109)</td>
<td>(0.0213)</td>
<td>(0.0221)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash Flow/Total Assets * Business Unit of the Firm</td>
<td>-0.2690*</td>
<td>-0.2875*</td>
<td>-0.2877*</td>
<td>-0.2690*</td>
<td>-0.2946*</td>
<td>-0.2996*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.1587)</td>
<td>(0.1617)</td>
<td>(0.1627)</td>
<td>(0.1599)</td>
<td>(0.1647)</td>
<td>(0.1667)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tobin's Q</td>
<td>0.0024*</td>
<td>0.0039</td>
<td>0.0040</td>
<td>0.0022</td>
<td>0.0036</td>
<td>0.0037</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.0014)</td>
<td>(0.0025)</td>
<td>(0.0026)</td>
<td>(0.0015)</td>
<td>(0.0025)</td>
<td>(0.0025)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tobin's Q * Business Unit of the Firm</td>
<td>-0.0309</td>
<td>-0.0324*</td>
<td>-0.0325*</td>
<td>-0.0340*</td>
<td>-0.0369</td>
<td>-0.0398</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.0190)</td>
<td>(0.0194)</td>
<td>(0.0195)</td>
<td>(0.0200)</td>
<td>(0.0225)</td>
<td>(0.0242)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constant</td>
<td>0.0345***</td>
<td>0.0359***</td>
<td>0.0423***</td>
<td>0.0327***</td>
<td>0.0323***</td>
<td>0.0371***</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.0049)</td>
<td>(0.0101)</td>
<td>(0.0126)</td>
<td>(0.0043)</td>
<td>(0.0088)</td>
<td>(0.0110)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Firm Fixed Effects: Yes
Year Fixed Effects: No
Observations: 932
Number of (Matched Focused) Firms plus Business Units: 225
R-squared: 0.0002
Table 3: Estimates of Investment Equation at the Division Level

This table presents regressions estimates at the division level of capital expenditures on cash flow from operations, cash flow from operations of other divisions, sales growth, imputed Tobin's Q, EBIT divided by lagged total assets (return on assets), and EVA/Total Assets. Capital expenditures and the two cash flow variables are scaled by lagged total assets. Imputed Tobin's Q is the median Q of all other firms in the European Union which have the same 3-digit SIC code as the respective division. In the regressions, we use monthly data from January 2002 to December 2006. Robust standard errors are in parentheses. Constants were included in the regressions but are not reported. The variables in the regressions are winsorized at 1%. ***indicates significance at 1%, ** indicates significance at 5%, * indicates significant at 1%.

<table>
<thead>
<tr>
<th>Capital Expenditures/Total Assets</th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Own Cash Flow/Total Assets</td>
<td>0.0219**</td>
<td>0.0190**</td>
<td>0.0230**</td>
</tr>
<tr>
<td></td>
<td>(0.0088)</td>
<td>(0.0091)</td>
<td>(0.0103)</td>
</tr>
<tr>
<td>Cash Flow (Other Divisions)/Total Assets</td>
<td>0.0073**</td>
<td>0.0072**</td>
<td>0.0074**</td>
</tr>
<tr>
<td></td>
<td>(0.0028)</td>
<td>(0.0029)</td>
<td>(0.0029)</td>
</tr>
<tr>
<td>Sales Growth</td>
<td>0.0008***</td>
<td>0.0008***</td>
<td>0.0008***</td>
</tr>
<tr>
<td></td>
<td>(0.0002)</td>
<td>(0.0002)</td>
<td>(0.0002)</td>
</tr>
<tr>
<td>Imputed Tobin's Q (lag)</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td></td>
<td>(0.0002)</td>
<td>(0.0002)</td>
<td>(0.0002)</td>
</tr>
<tr>
<td>EBIT/Total Assets</td>
<td>0.0221</td>
<td></td>
<td>-0.0084</td>
</tr>
<tr>
<td></td>
<td>(0.0171)</td>
<td></td>
<td>(0.0299)</td>
</tr>
<tr>
<td>EVA/Total Assets</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Division Fixed Effects           | Yes       | Yes       | Yes       |
Year Fixed Effects               | Yes       | Yes       | Yes       |
Observations                     | 296       | 296       | 296       |
Number of Divisions              | 5         | 5         | 5         |
Adjusted R-squared               | 0.179     | 0.180     | 0.177     
Table 4: Descriptive Statistics and Correlations of Planned and Realized Variables at the Business Unit Level

Panel A presents descriptive statistics of planned and actual data at the business unit level. The table uses quarterly data for the period January 2002 to December 2006 for all 22 business units. The variables are defined in Appendix A-3. The data is from the internal management accounting system of the firm. Planned numbers are from the firm’s annual capital allocation plan. Panel B presents correlation coefficients between actual and planned values at the business unit level. The correlations are calculated using quarterly data from January 2002 to December 2006. *** indicates significance at 1%. The table also contains the number of observations used to calculate the respective correlations.

<table>
<thead>
<tr>
<th>Panel A: Descriptive Statistics</th>
<th>Obs.</th>
<th>Mean</th>
<th>Median</th>
<th>Std. dev.</th>
<th>25%</th>
<th>75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned Sales (in million EUR)</td>
<td>411</td>
<td>352</td>
<td>221</td>
<td>384</td>
<td>107</td>
<td>405</td>
</tr>
<tr>
<td>Planned EBIT (in million EUR)</td>
<td>411</td>
<td>25.9</td>
<td>13.0</td>
<td>40.0</td>
<td>2.5</td>
<td>44.6</td>
</tr>
<tr>
<td>Planned EBIT/Total Assets</td>
<td>411</td>
<td>0.043</td>
<td>0.038</td>
<td>0.064</td>
<td>0.008</td>
<td>0.069</td>
</tr>
<tr>
<td>Planned Sales Growth</td>
<td>390</td>
<td>0.054</td>
<td>0.054</td>
<td>0.263</td>
<td>-0.018</td>
<td>0.161</td>
</tr>
<tr>
<td>Planned EVA/Total Assets</td>
<td>403</td>
<td>0.026</td>
<td>0.021</td>
<td>0.058</td>
<td>-0.010</td>
<td>0.052</td>
</tr>
<tr>
<td>Planned Cash Flow from Operations (in million EUR)</td>
<td>227</td>
<td>42.7</td>
<td>19.5</td>
<td>71.0</td>
<td>2.6</td>
<td>54.3</td>
</tr>
<tr>
<td>Planned Capital Expenditures (in million EUR)</td>
<td>371</td>
<td>12.5</td>
<td>4.7</td>
<td>25.2</td>
<td>3.1</td>
<td>10.0</td>
</tr>
<tr>
<td>Planned Capital Expenditures/Total Assets</td>
<td>371</td>
<td>0.015</td>
<td>0.012</td>
<td>0.014</td>
<td>0.006</td>
<td>0.023</td>
</tr>
<tr>
<td>Planned R&amp;D Expenditures/Total Assets</td>
<td>223</td>
<td>0.038</td>
<td>0.029</td>
<td>0.040</td>
<td>0.016</td>
<td>0.041</td>
</tr>
<tr>
<td>Planned Marketing Expenditures/Total Assets</td>
<td>227</td>
<td>0.102</td>
<td>0.078</td>
<td>0.086</td>
<td>0.052</td>
<td>0.147</td>
</tr>
<tr>
<td>Planned Personnel (# People)</td>
<td>227</td>
<td>6444</td>
<td>3849</td>
<td>7892</td>
<td>1214</td>
<td>7940</td>
</tr>
<tr>
<td>Sales (in million EUR)</td>
<td>431</td>
<td>316</td>
<td>201</td>
<td>364</td>
<td>91</td>
<td>370</td>
</tr>
<tr>
<td>EBIT (in million EUR)</td>
<td>431</td>
<td>18.4</td>
<td>10.6</td>
<td>53.9</td>
<td>-2.0</td>
<td>40.0</td>
</tr>
<tr>
<td>EBIT/Total Assets</td>
<td>431</td>
<td>0.028</td>
<td>0.030</td>
<td>0.095</td>
<td>-0.009</td>
<td>0.066</td>
</tr>
<tr>
<td>Sales Growth</td>
<td>390</td>
<td>0.037</td>
<td>0.023</td>
<td>0.270</td>
<td>-0.088</td>
<td>0.145</td>
</tr>
<tr>
<td>EVA/Total Assets</td>
<td>431</td>
<td>0.018</td>
<td>0.017</td>
<td>0.083</td>
<td>-0.017</td>
<td>0.058</td>
</tr>
<tr>
<td>Cash Flow from Operations (in million EUR)</td>
<td>431</td>
<td>39.0</td>
<td>17.5</td>
<td>91.4</td>
<td>1.0</td>
<td>50.9</td>
</tr>
<tr>
<td>Cash Flow from Operations/Total Assets</td>
<td>431</td>
<td>0.047</td>
<td>0.042</td>
<td>0.125</td>
<td>-0.005</td>
<td>0.099</td>
</tr>
<tr>
<td>Capital Expenditures (in million EUR)</td>
<td>431</td>
<td>8.8</td>
<td>3.2</td>
<td>21.0</td>
<td>1.4</td>
<td>7.6</td>
</tr>
<tr>
<td>Capital Expenditures/Total Assets</td>
<td>431</td>
<td>0.010</td>
<td>0.007</td>
<td>0.060</td>
<td>0.004</td>
<td>0.017</td>
</tr>
<tr>
<td>R&amp;D Expenditures/Total Assets</td>
<td>431</td>
<td>0.033</td>
<td>0.028</td>
<td>0.030</td>
<td>0.015</td>
<td>0.046</td>
</tr>
<tr>
<td>Marketing Expenditures/Total Assets</td>
<td>431</td>
<td>0.099</td>
<td>0.080</td>
<td>0.065</td>
<td>0.049</td>
<td>0.150</td>
</tr>
<tr>
<td>Personnel (# People)</td>
<td>431</td>
<td>6034</td>
<td>3533</td>
<td>7808</td>
<td>1196</td>
<td>7358</td>
</tr>
<tr>
<td>(Capital Expenditures - Planned Capital Expenditures)/Total Assets</td>
<td>371</td>
<td>-0.004</td>
<td>-0.004</td>
<td>0.011</td>
<td>-0.009</td>
<td>0.001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Panel B: Selected Correlation Coefficients</th>
<th>Correlation</th>
<th>p-Value</th>
<th>Obs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correlation (Sales, Planned Sales)</td>
<td>0.9741</td>
<td>&lt;0.0001***</td>
<td>411</td>
</tr>
<tr>
<td>Correlation (Sales Growth, Planned Sales Growth)</td>
<td>0.7879</td>
<td>&lt;0.0001***</td>
<td>390</td>
</tr>
<tr>
<td>Correlation (Capital Expenditures, Planned Capital Expenditures)</td>
<td>0.8605</td>
<td>&lt;0.0001***</td>
<td>371</td>
</tr>
<tr>
<td>Correlation (R&amp;D Expenditures, Planned R&amp;D Expenditures)</td>
<td>0.9094</td>
<td>&lt;0.0001***</td>
<td>223</td>
</tr>
<tr>
<td>Correlation (Marketing Expenditures, Planned Marketing Expenditures)</td>
<td>0.8969</td>
<td>&lt;0.0001***</td>
<td>227</td>
</tr>
</tbody>
</table>
Table 5: Descriptive Statistics of Managerial Power and Connection Measures

This table provides summary statistics of our measures of power and connection inside the conglomerate. Panel A provides an overview of the number of Business Unit and Division CEOs who were employed during the sample period. It also reports for how many of those individuals we have proxies for power and connectedness. Our data comes from either management profile data or an internal survey which we conducted among the Business Unit CEOs of the firm. Panel B reports the variables which are available at the Business Unit CEO level, while Panel C reports those available at the Division CEO level. The summary statistics are calculated both across all unit managers and across all business unit-quarters (i.e., across the panel). All variables are defined in Appendix A-3 and A-4. The first six variables in Panel B (Same University and Degree as CEO, Overlap Inside Unit with Board, Tenure at Firm, Tenure in Powerful Position, Proximity to HQ, and Favorable Biographics) are self-constructed based on management profile data from BoardEx and Zoominfo. We complemented and cross-checked this data with information from social networking web pages (e.g., LinkedIn, Facebook, MySpace), annual reports, and a systematic web and newspaper search. Favorable Biographics is an index which ranges from 0 to 4 and is formed by adding 1 when a unit manager: (1) speaks the local language; (2) has the local nationality; (3) went to the university of the CEO; (4) graduated in the same discipline (engineering) as the CEO. The last two indexes, Networker Type and Connection to Division CEO, are constructed based on an internal questionnaire which we designed and ran ourselves. Networker Type ranges from 0 to 5 and measures to what extent a Business Unit CEO undertakes networking activities. It is formed by adding one when a manager: (1) is a member in a fraternity; (2) is a member of a social club in the firm; (3) regularly stops by the headquarters to say Hello; (4) accepts regularly highly visible work assignments; (5) participated regularly on highly visible task forces or committees. Connection to Division CEO proxies for how well a Business Unit CEO is connected to his Division CEOs. The index ranges from 0 to 3 and adds one when a manager: (1) has a Division CEO as a personal mentor; (2) goes at least occasionally for lunch with the Division CEO; (3) meets the Division CEO in person at least every two weeks. All variables in Panel C are self-constructed based on management profile data from BoardEx and Zoominfo. We complemented and cross-checked this data with information from social networking web pages (e.g., LinkedIn, Facebook, My Space), annual reports, and a systematic web and newspaper search. Correlations are reported in Appendix A-5.

### Panel A: Overview of Managerial Power Data

<table>
<thead>
<tr>
<th>Manager Type and Available Data</th>
<th>Obs.</th>
<th>Perc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Unit CEOs during Sample Period</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>Business Unit CEOs with Management Profile Data</td>
<td>43</td>
<td>100%</td>
</tr>
<tr>
<td>Business CEOs with Survey Data</td>
<td>20</td>
<td>47%</td>
</tr>
<tr>
<td>Division CEOs during Sample Period</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Division CEOs with Management Profile Data</td>
<td>13</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Panel B: Business Unit CEO Variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>Summary Statistics Across Business Unit CEO</th>
<th>Summary Statistics Across Business Unit-Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>Median</td>
</tr>
<tr>
<td>Same Univ. and Degree as CEO</td>
<td>0.08</td>
<td></td>
</tr>
<tr>
<td>Overlap Inside Unit with Board (months)</td>
<td>60.86</td>
<td>24.00</td>
</tr>
<tr>
<td>Tenure at Firm (in years)</td>
<td>12.44</td>
<td>6.00</td>
</tr>
<tr>
<td>Tenure in Powerful Position (in years)</td>
<td>5.54</td>
<td>3.50</td>
</tr>
<tr>
<td>Proximity to HQ</td>
<td>0.60</td>
<td></td>
</tr>
<tr>
<td>Favorable Biographics</td>
<td>1.86</td>
<td>2.00</td>
</tr>
<tr>
<td>Networker Type</td>
<td>2.41</td>
<td>2.00</td>
</tr>
<tr>
<td>Connection to Division CEO</td>
<td>1.50</td>
<td>1.00</td>
</tr>
</tbody>
</table>
### Panel C: Division CEO Variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>Summary Statistics Across Division CEO</th>
<th>Summary Statistics Across Business Unit-Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>Median</td>
</tr>
<tr>
<td>Same Univ. and Degree as CEO</td>
<td>0.08</td>
<td></td>
</tr>
<tr>
<td>Overlap Inside Unit with Board (months)</td>
<td>42.46</td>
<td>12.00</td>
</tr>
<tr>
<td>Tenure at Firm (in years)</td>
<td>15.21</td>
<td>10.42</td>
</tr>
<tr>
<td>Tenure in Powerful Position (in years)</td>
<td>4.71</td>
<td>2.45</td>
</tr>
<tr>
<td>Proximity to HQ</td>
<td>0.82</td>
<td></td>
</tr>
<tr>
<td>Favorable Biographics</td>
<td>1.80</td>
<td>2.00</td>
</tr>
</tbody>
</table>
Table 6: Description of Cash Windfalls

This table presents a description of the cash windfalls. The headquarters of the firm held equity stakes in other firms which were sold and resulted in large cash windfalls. Cash windfalls occurred in Q4 2003, Q3 2004, Q4 2004 (two windfalls), Q2 2005, Q3 2005 (two windfalls), and Q4 2005. Panel A reports the frequency of the cash windfall and provides descriptive statistics of the size of the windfalls (in million EUR). The size of the cash windfall is the cash inflow which was realized through the sale of the stake. The profit from the cash windfall is the sales price minus the book value of the stake. Panel B provides a summarized description of the windfalls. It contains the stated reasons for the sale, the stated usage of the proceeds from the windfalls, the procedure of how the stake was sold, and the size of the pre- and after sale stake. It also contains information on how long the firm has held the equity stakes and whether the stakes were unrelated to the activities of the business units. Figures in Panel A and B are constructed based on information from company news reports as well as newspaper articles. Panel C contains information on the usage of the cash windfalls. These figures are calculated based on cash flow statements of the firm. A detailed description of each individual cash windfalls is provided in Appendix A-6.

Panel A: Descriptive Statistics of Cash Windfalls

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Cash Windfalls</td>
<td>8</td>
</tr>
<tr>
<td>Number of Quarters with Cash Windfalls</td>
<td>6</td>
</tr>
<tr>
<td>Size of Cash Windfalls (million EUR)</td>
<td></td>
</tr>
<tr>
<td>Mean</td>
<td>703</td>
</tr>
<tr>
<td>Median</td>
<td>694</td>
</tr>
<tr>
<td>Min</td>
<td>615</td>
</tr>
<tr>
<td>Max</td>
<td>935</td>
</tr>
<tr>
<td>Std. dev.</td>
<td>140</td>
</tr>
<tr>
<td>Profit from Cash Windfalls (million EUR)</td>
<td></td>
</tr>
<tr>
<td>Mean</td>
<td>425</td>
</tr>
<tr>
<td>Median</td>
<td>380</td>
</tr>
</tbody>
</table>

Panel B: Description of Cash Windfalls

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stated Reason for Equity Sale (multiple usages possible)</td>
<td></td>
</tr>
<tr>
<td># Non-strategic asset</td>
<td>6</td>
</tr>
<tr>
<td># Exploit high market value</td>
<td>3</td>
</tr>
<tr>
<td># Reduce exposure to cyclical industry</td>
<td>2</td>
</tr>
<tr>
<td>Stated Usage of Money from Equity Stake (multiple reasons possible)</td>
<td></td>
</tr>
<tr>
<td># Fund strategic growth options</td>
<td>6</td>
</tr>
<tr>
<td># General corporate purposes</td>
<td>2</td>
</tr>
<tr>
<td># Reduction of debt</td>
<td>1</td>
</tr>
<tr>
<td>Procedure of Sale of Equity Stake (This information was available only for seven cash windfalls)</td>
<td></td>
</tr>
<tr>
<td># Initial Public Offering (IPO)</td>
<td>1</td>
</tr>
<tr>
<td># Seasoned Equity Offering (SEO)</td>
<td>4</td>
</tr>
<tr>
<td># OTC Transaction (OTC)</td>
<td>3</td>
</tr>
<tr>
<td>Pre-Sale Equity Stakes</td>
<td></td>
</tr>
<tr>
<td>Mean</td>
<td>32%</td>
</tr>
<tr>
<td>Median</td>
<td>29%</td>
</tr>
<tr>
<td>After-Sale Equity Stake</td>
<td></td>
</tr>
<tr>
<td>Mean</td>
<td>16%</td>
</tr>
<tr>
<td>Median</td>
<td>16%</td>
</tr>
<tr>
<td>Holding Period of Equity Stake (years)</td>
<td></td>
</tr>
<tr>
<td>Mean</td>
<td>12</td>
</tr>
<tr>
<td>Median</td>
<td>11</td>
</tr>
<tr>
<td>Unrelated to Activities of Business Units (# of Equity Stakes)</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>5</td>
</tr>
<tr>
<td>No</td>
<td>3</td>
</tr>
</tbody>
</table>

Panel C: Usage of Cash Windfalls

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital Expenditures</td>
<td>19%</td>
</tr>
<tr>
<td>Working Capital (increase)</td>
<td>1%</td>
</tr>
<tr>
<td>Acquisitions</td>
<td>13%</td>
</tr>
<tr>
<td>Repayment Debt</td>
<td>21%</td>
</tr>
<tr>
<td>Dividends</td>
<td>9%</td>
</tr>
<tr>
<td>Share Repurchases</td>
<td>11%</td>
</tr>
<tr>
<td>Tax</td>
<td>6%</td>
</tr>
<tr>
<td>Increase in Cash Holdings</td>
<td>20%</td>
</tr>
</tbody>
</table>
Table 7: Cash Windfall Induced Changes in Investment and Managerial Power and Connection

This table presents panel regressions based on business unit data of the differences between actual and planned capital expenditures on the cash windfall variable, different measures of Business Unit CEO power, and an interaction term of the cash windfall and the power variables. We control for sales growth, EBIT divided by lagged total assets (return on assets), lagged (planning period) EBIT deviation from the plan, and lagged Imputed Tobin's Q. The cash windfall variable is the cash inflow at the headquarters level that results from the selling of equity stakes in other firms, measured as log(1+Cash Windfall). The difference between realized and planned capital expenditures is scaled by total assets of the respective business unit. This variable is available for 21 out of 22 business units. The regressions use quarterly data from January 2002 to December 2006. The coefficient of the interaction term (Managerial Power * log(1+Cash Windfall)) and its standard error are multiplied by 1000. Constants were included in the regressions but are not reported. Robust standard errors are reported in parentheses and are clustered at the business unit level. The dependent variable and the controls are winsorized at 1%. *** indicates significance at 1%; ** indicates significance at 5%; * indicates significance at 10%. The table also reports the economic effects of power/connection. It is calculated for a cash windfall of 700 million EUR. We calculate the change in the dependent variable both if managerial power/connection is low and if it is high. The change in the dependent variable is then compared with the average quarterly business unit investment rate (capital expenditure/total assets), calculated across all no cash windfall quarters. This investment rate is 0.0081.

<table>
<thead>
<tr>
<th>Managerial Power Variable:</th>
<th>None</th>
<th>None</th>
<th>Same Univ. and Degree as CEO</th>
<th>Overlap Inside Firm with Board</th>
<th>Tenure at Firm</th>
<th>Tenure in Powerful Position</th>
<th>Proximity to HQ</th>
<th>Favorable Biographics</th>
<th>Networker Type</th>
<th>Connection to Division CEO</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
<td>(5)</td>
<td>(6)</td>
<td>(7)</td>
<td>(8)</td>
<td>(9)</td>
<td>(10)</td>
<td></td>
</tr>
<tr>
<td>Managerial Power * log(1+Cash Windfall)</td>
<td>0.5434*</td>
<td>0.0046*</td>
<td>0.0409**</td>
<td>0.0738**</td>
<td>0.6998*</td>
<td>0.2590**</td>
<td>0.6057*</td>
<td>0.7631*</td>
<td>0.3112</td>
<td>0.3588</td>
</tr>
<tr>
<td>(0.2683)</td>
<td>(0.0022)</td>
<td>(0.0159)</td>
<td>(0.0346)</td>
<td>(0.3931)</td>
<td>(0.0346)</td>
<td>(0.3112)</td>
<td>(0.3588)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Managerial Power</td>
<td>-0.0025</td>
<td>-0.0000</td>
<td>0.0001</td>
<td>0.0000</td>
<td>-0.0003</td>
<td>-0.0013</td>
<td>-0.0000</td>
<td>-0.0011</td>
<td>0.0009</td>
<td>0.0020</td>
</tr>
<tr>
<td>(0.0031)</td>
<td>(0.0000)</td>
<td>(0.0001)</td>
<td>(0.0002)</td>
<td>(0.0020)</td>
<td>(0.0010)</td>
<td>(0.0009)</td>
<td>(0.0020)</td>
<td>(0.0009)</td>
<td>(0.0020)</td>
<td></td>
</tr>
<tr>
<td>log(1+Cash Windfall)</td>
<td>0.0006***</td>
<td>0.0006*</td>
<td>0.0005</td>
<td>0.0001</td>
<td>0.0000</td>
<td>0.0001</td>
<td>0.0001</td>
<td>0.0001</td>
<td>0.0004</td>
<td>0.0004</td>
</tr>
<tr>
<td>(0.0002)</td>
<td>(0.0003)</td>
<td>(0.0004)</td>
<td>(0.0002)</td>
<td>(0.0002)</td>
<td>(0.0002)</td>
<td>(0.0003)</td>
<td>(0.0006)</td>
<td>(0.0004)</td>
<td>(0.0004)</td>
<td></td>
</tr>
<tr>
<td>Sales Growth</td>
<td>0.0029</td>
<td>0.0024</td>
<td>0.0046**</td>
<td>0.0023</td>
<td>0.0025</td>
<td>0.0013</td>
<td>0.0016</td>
<td>0.0005</td>
<td>0.0028</td>
<td>0.0006</td>
</tr>
<tr>
<td>(0.0017)</td>
<td>(0.0021)</td>
<td>(0.0017)</td>
<td>(0.0021)</td>
<td>(0.0028)</td>
<td>(0.0028)</td>
<td>(0.0005)</td>
<td>(0.0045)</td>
<td>(0.0005)</td>
<td>(0.0045)</td>
<td></td>
</tr>
<tr>
<td>EBIT/Total Assets</td>
<td>0.0254**</td>
<td>0.0223**</td>
<td>0.0263*</td>
<td>0.0208*</td>
<td>0.0207*</td>
<td>0.0082</td>
<td>0.0058</td>
<td>0.0054</td>
<td>0.0095</td>
<td>0.0054</td>
</tr>
<tr>
<td>(0.0095)</td>
<td>(0.0097)</td>
<td>(0.0126)</td>
<td>(0.0100)</td>
<td>(0.0102)</td>
<td>(0.0179)</td>
<td>(0.0189)</td>
<td>(0.0236)</td>
<td>(0.0244)</td>
<td>(0.0236)</td>
<td>(0.0244)</td>
</tr>
<tr>
<td>EBIT Deviation from Plan/TA (lag)</td>
<td>-0.0555***</td>
<td>-0.0598***</td>
<td>-0.0545***</td>
<td>-0.0658***</td>
<td>-0.0711***</td>
<td>-0.0290</td>
<td>-0.0348</td>
<td>-0.0645***</td>
<td>-0.0704***</td>
<td>0.0179</td>
</tr>
<tr>
<td>(0.0169)</td>
<td>(0.0176)</td>
<td>(0.0148)</td>
<td>(0.0172)</td>
<td>(0.0183)</td>
<td>(0.0301)</td>
<td>(0.0261)</td>
<td>(0.0179)</td>
<td>(0.0192)</td>
<td>0.0000</td>
<td>0.0023</td>
</tr>
<tr>
<td>Imputed Tobin's Q (lag)</td>
<td>0.0100</td>
<td>0.0094</td>
<td>0.0077</td>
<td>0.0092</td>
<td>0.0101</td>
<td>0.0005</td>
<td>0.0019</td>
<td>-0.0000</td>
<td>0.0023</td>
<td>0.0023</td>
</tr>
<tr>
<td>(0.0067)</td>
<td>(0.0079)</td>
<td>(0.0074)</td>
<td>(0.0063)</td>
<td>(0.0071)</td>
<td>(0.0069)</td>
<td>(0.0068)</td>
<td>(0.0079)</td>
<td>(0.0077)</td>
<td>(0.0079)</td>
<td>(0.0077)</td>
</tr>
<tr>
<td>Fourth Quarter Dummy</td>
<td>0.0009</td>
<td>0.0017</td>
<td>0.0004</td>
<td>0.0017</td>
<td>0.0019</td>
<td>0.0040**</td>
<td>0.0042**</td>
<td>0.0035</td>
<td>0.0026</td>
<td>0.0032</td>
</tr>
<tr>
<td>(0.0014)</td>
<td>(0.0016)</td>
<td>(0.0014)</td>
<td>(0.0015)</td>
<td>(0.0015)</td>
<td>(0.0016)</td>
<td>(0.0018)</td>
<td>(0.0032)</td>
<td>(0.0033)</td>
<td>(0.0032)</td>
<td>(0.0033)</td>
</tr>
<tr>
<td>Business Unit Fixed Effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Year Fixed Effects</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Observations</td>
<td>311</td>
<td>311</td>
<td>274</td>
<td>279</td>
<td>293</td>
<td>264</td>
<td>210</td>
<td>198</td>
<td>141</td>
<td>141</td>
</tr>
<tr>
<td>Number of Business Units</td>
<td>21</td>
<td>21</td>
<td>20</td>
<td>19</td>
<td>20</td>
<td>19</td>
<td>19</td>
<td>18</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Adjusted R-squared</td>
<td>0.117</td>
<td>0.117</td>
<td>0.106</td>
<td>0.121</td>
<td>0.150</td>
<td>0.130</td>
<td>0.140</td>
<td>0.134</td>
<td>0.076</td>
<td>0.052</td>
</tr>
<tr>
<td>Economic Effects of Power for Cash Windfall of 700 million EUR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Managerial Power Variable:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>None</td>
<td>Same Univ. and Degree as CEO</td>
<td>Overlap Inside Firm with Board</td>
<td>Tenure at Firm</td>
<td>Tenure in Powerful Position</td>
<td>Proximity to HQ</td>
<td>Favorable Biographics</td>
<td>Networker Type</td>
<td>Connection to Division CEO</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td>--------------------------------</td>
<td>--------------------------------</td>
<td>----------------</td>
<td>-----------------------------</td>
<td>-----------------</td>
<td>------------------------</td>
<td>-------------------</td>
<td>-----------------------------</td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
<td>(5)</td>
<td>(6)</td>
<td>(7)</td>
<td>(8)</td>
<td>(9)</td>
<td>(10)</td>
<td></td>
</tr>
<tr>
<td>Low Power/Connection</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estimated Change of LHS variable</td>
<td>n/a</td>
<td>n/a</td>
<td>Dummy =0</td>
<td>Variable at Q1</td>
<td>Variable at Q1</td>
<td>Variable at Q1</td>
<td>Dummy =0</td>
<td>Variable at Q1</td>
<td>Variable at Q1</td>
<td>Variable at Q1</td>
</tr>
<tr>
<td>Change in investment relative to average</td>
<td>n/a</td>
<td>n/a</td>
<td>0.00144</td>
<td>0.0004</td>
<td>0.00066</td>
<td>0.00039</td>
<td>0.00037</td>
<td>0.00109</td>
<td>0.00112</td>
<td>-0.0001</td>
</tr>
<tr>
<td>investment rate in no cash windfall quarters (=0.0081)</td>
<td>18%</td>
<td>5%</td>
<td>8%</td>
<td>5%</td>
<td>5%</td>
<td>13%</td>
<td>14%</td>
<td>1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Power/Connection</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estimated Change of LHS variable</td>
<td>n/a</td>
<td>n/a</td>
<td>Dummy =1</td>
<td>Variable at Q3</td>
<td>Variable at Q3</td>
<td>Variable at Q3</td>
<td>Dummy =1</td>
<td>Variable at Q3</td>
<td>Variable at Q3</td>
<td>Variable at Q3</td>
</tr>
<tr>
<td>Change in investment relative to average</td>
<td>n/a</td>
<td>n/a</td>
<td>0.0030</td>
<td>0.0013</td>
<td>0.0032</td>
<td>0.0025</td>
<td>0.0024</td>
<td>0.0018</td>
<td>0.0028</td>
<td>0.0021</td>
</tr>
<tr>
<td>investment rate in no cash windfall quarters (=0.0081)</td>
<td>37%</td>
<td>16%</td>
<td>40%</td>
<td>31%</td>
<td>29%</td>
<td>23%</td>
<td>35%</td>
<td>26%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Difference Economic Effects</td>
<td>n/a</td>
<td>n/a</td>
<td>19%</td>
<td>9%</td>
<td>32%</td>
<td>26%</td>
<td>24%</td>
<td>10%</td>
<td>21%</td>
<td>27%</td>
</tr>
</tbody>
</table>
This table presents several alternative specifications of our baseline model reported in Table 7. All regressions used data at the business unit level and contain as independent variables the cash windfall variable, different measures of Business Unit CEO power, and an interaction term of the cash windfall and the power variables. All regressions also control for sales growth, EBIT divided by lagged total assets (return on assets), lagged (planning period) EBIT deviation from the plan, and lagged Imputed Tobin's Q. The regressions use quarterly data from January 2002 to December 2006. The coefficient of the interaction term (Managerial Power * log(1+Cash Windfall)) and its standard error are multiplied by 1,000 in the specifications A-E and G-I. The table only reports the coefficient and standard error of the interaction term. Specification A reports the baseline specification from Table 7. Specification B uses division fixed effects instead of business unit fixed effects. Specification C reports results from pooled OLS regressions without division or business unit fixed effects and with standard errors clustered at the business unit level. Specification D is as in C but without clustering of standard errors. Specification E uses actual capital expenditures over total assets as the dependent variable. Specification F reports logit regressions where the dependent variable is a dummy which is 1 if actual capital expenditure over total assets exceeds planned capital expenditure over total assets. Specification G estimates an AR(1) process for the error term to account for possible autocorrelation in the error term. Specification takes out in the cash windfall quarters those two units which are related to the cash windfalls (this is the case in 3 windfalls; the units are related to the windfalls as the companies are serving as suppliers of goods to the units). Specification I estimates the regressions entirely without the two related units. Constants and time dummies were included all regressions but are not reported. *** indicates significance at 1%; ** indicates significance at 5%; * indicates significance at 10%.

<table>
<thead>
<tr>
<th>Managerial Power Variable:</th>
<th>Same Univ. and Degree as CEO</th>
<th>Overlap Inside Firm with Board</th>
<th>Tenure at Firm</th>
<th>Tenure in Powerful Position</th>
<th>Proximity to HQ</th>
<th>Favorable Biographics</th>
<th>Networker Type</th>
<th>Connection to Division CEO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
<td>(5)</td>
<td>(6)</td>
<td>(7)</td>
<td>(8)</td>
</tr>
<tr>
<td>A. Baseline model (see Table 7)</td>
<td>0.5434*</td>
<td>0.0046*</td>
<td>0.0409**</td>
<td>0.0738**</td>
<td>0.6998*</td>
<td>0.2590**</td>
<td>0.6057*</td>
<td>0.7631*</td>
</tr>
<tr>
<td></td>
<td>(0.2683)</td>
<td>(0.0022)</td>
<td>(0.0159)</td>
<td>(0.0346)</td>
<td>(0.3931)</td>
<td>(0.0346)</td>
<td>(0.3112)</td>
<td>(0.3588)</td>
</tr>
<tr>
<td>B. Division fixed effects</td>
<td>0.4170**</td>
<td>0.0045*</td>
<td>0.0385*</td>
<td>0.0708*</td>
<td>0.6496**</td>
<td>0.2202*</td>
<td>0.5539</td>
<td>0.6772</td>
</tr>
<tr>
<td></td>
<td>(0.1180)</td>
<td>(0.0018)</td>
<td>(0.0144)</td>
<td>(0.0288)</td>
<td>(0.1667)</td>
<td>(0.0925)</td>
<td>(0.3290)</td>
<td>(0.3474)</td>
</tr>
<tr>
<td>C. OLS without fixed effects, standard errors clustered at BU</td>
<td>0.4710</td>
<td>0.0033*</td>
<td>0.0327**</td>
<td>0.0653*</td>
<td>0.7627**</td>
<td>0.2711***</td>
<td>0.5965*</td>
<td>0.6729*</td>
</tr>
<tr>
<td></td>
<td>(0.2950)</td>
<td>(0.0016)</td>
<td>(0.0136)</td>
<td>(0.0327)</td>
<td>(0.35330)</td>
<td>(0.0910)</td>
<td>(0.2774)</td>
<td>(0.3175)</td>
</tr>
<tr>
<td>D. OLS without fixed effects, no clustering of standard errors</td>
<td>0.4710</td>
<td>0.0033*</td>
<td>0.0327**</td>
<td>0.0653*</td>
<td>0.7627**</td>
<td>0.2711*</td>
<td>0.5965***</td>
<td>0.6729*</td>
</tr>
<tr>
<td></td>
<td>(0.4322)</td>
<td>(0.0020)</td>
<td>(0.0157)</td>
<td>(0.0314)</td>
<td>(0.3845)</td>
<td>(0.1471)</td>
<td>(0.2224)</td>
<td>(0.3963)</td>
</tr>
<tr>
<td>E. Capital Expenditures/Total Assets as LHS variable</td>
<td>0.9427**</td>
<td>0.0041***</td>
<td>0.0377</td>
<td>0.0819*</td>
<td>0.8522</td>
<td>0.3589**</td>
<td>0.7147*</td>
<td>1.4631***</td>
</tr>
<tr>
<td></td>
<td>(0.3385)</td>
<td>(0.0012)</td>
<td>(0.0221)</td>
<td>(0.0472)</td>
<td>(0.5725)</td>
<td>(0.1354)</td>
<td>(0.4005)</td>
<td>(0.4221)</td>
</tr>
<tr>
<td>F. Logit model with dummy =1 if actual capex&gt;planned capex as LHS variable</td>
<td>0.2654</td>
<td>0.4299</td>
<td>0.0051</td>
<td>0.0076</td>
<td>0.2859**</td>
<td>0.0968*</td>
<td>0.1085</td>
<td>0.0984</td>
</tr>
<tr>
<td></td>
<td>(0.1911)</td>
<td>(0.4730)</td>
<td>(0.0039)</td>
<td>(0.0067)</td>
<td>(0.1196)</td>
<td>(0.0579)</td>
<td>(0.0760)</td>
<td>(0.0783)</td>
</tr>
<tr>
<td>G. AR(1) process for error term</td>
<td>0.6975</td>
<td>0.0057***</td>
<td>0.0416***</td>
<td>0.0823***</td>
<td>0.9497*</td>
<td>0.3432</td>
<td>0.8644**</td>
<td>0.8372*</td>
</tr>
<tr>
<td></td>
<td>(0.6942)</td>
<td>(0.0020)</td>
<td>(0.0156)</td>
<td>(0.0304)</td>
<td>(0.5146)</td>
<td>(0.2524)</td>
<td>(0.3912)</td>
<td>(0.4294)</td>
</tr>
<tr>
<td>H. Take out related unit in quarter of cash windfalls</td>
<td>0.5459*</td>
<td>0.0047*</td>
<td>0.0419**</td>
<td>0.0755**</td>
<td>0.7148*</td>
<td>0.2606**</td>
<td>0.6057*</td>
<td>0.7631*</td>
</tr>
<tr>
<td></td>
<td>(0.2715)</td>
<td>(0.0022)</td>
<td>(0.0161)</td>
<td>(0.0355)</td>
<td>(0.3925)</td>
<td>(0.1007)</td>
<td>(0.3112)</td>
<td>(0.3588)</td>
</tr>
<tr>
<td>I. Take out related units completely</td>
<td>0.4574</td>
<td>0.0045*</td>
<td>0.0514***</td>
<td>0.0857*</td>
<td>0.7410*</td>
<td>0.2578**</td>
<td>0.6057*</td>
<td>0.7631*</td>
</tr>
<tr>
<td></td>
<td>(0.2761)</td>
<td>(0.0024)</td>
<td>(0.0154)</td>
<td>(0.0408)</td>
<td>(0.4195)</td>
<td>(0.1039)</td>
<td>(0.3112)</td>
<td>(0.3588)</td>
</tr>
</tbody>
</table>
Table 9: Cash Windfall Regression: Controlling for Managerial Ability

This table presents panel regressions based on business unit data of the differences between actual and planned capital expenditures on the cash windfall variable, different measures of Business Unit CEO power, and an interaction term of the cash windfall and the power variables. We also include a proxy for managerial ability. In Panel A, this variable, named Elite University Degree, takes the value one if a manager holds an university degree from an elite university (e.g., Harvard Business School, INSEAD etc.). In Panel B, this variable, named External Director Position, takes the value one if a manager holds a non-executive director position outside the conglomerate next to his management position inside the firm. The cash windfall variable is the cash inflow at the headquarters level that results from the selling of equity stakes in other firms, measured as log(1+Cash Windfall). The difference between realized and planned capital expenditures is scaled by total assets of the respective business unit. This variable is available for 21 out of 22 business units. The regressions use quarterly data from January 2002 to December 2006. The coefficient of the interaction term (Managerial Power * log(1+Cash Windfall)) and its standard error are multiplied by 1,000. Constants were included in the regressions but are not reported. Robust standard errors are reported in parentheses and are clustered at the business unit level. The dependent variable and the controls are winsorized at 1%. *** indicates significance at 1%; ** indicates significance at 5%; * indicates significance at 10%.

Panel A: Elite University Degree as Ability Control

<table>
<thead>
<tr>
<th>Managerial Power Variable:</th>
<th>None</th>
<th>Same Univ. and Degree as CEO</th>
<th>Overlap Inside Firm with Board</th>
<th>Tenure at Firm</th>
<th>Tenure in Powerful Position</th>
<th>Proximity to HQ</th>
<th>Favorable Biographies</th>
<th>Networker Type</th>
<th>Connection to Division CEO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
<td>(5)</td>
<td>(6)</td>
<td>(7)</td>
<td>(8)</td>
<td>(9)</td>
</tr>
<tr>
<td>Managerial Power * log(1+Cash Windfall)</td>
<td>0.7849*&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0059***&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0338**&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0741**&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.6721</td>
<td>0.2261**&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.6839**&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.7350*&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Managerial Power</td>
<td>-0.0031</td>
<td>-0.0000</td>
<td>0.0000</td>
<td>-0.0000</td>
<td>-0.0006</td>
<td>-0.0011</td>
<td>-0.0018</td>
<td>-0.0010</td>
<td></td>
</tr>
<tr>
<td>Elite University Degree * log(1+Cash Windfall)</td>
<td>-0.0008*&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-0.0005*&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0005</td>
<td>0.0005</td>
<td>-0.0006</td>
<td>-0.0004</td>
<td>-0.0005</td>
<td>-0.0004</td>
<td></td>
</tr>
<tr>
<td>Elite University Degree</td>
<td>-0.0034</td>
<td>-0.0032</td>
<td>-0.0046*&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-0.0038*&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-0.0044**&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-0.0011</td>
<td>-0.0005</td>
<td>-0.0005</td>
<td></td>
</tr>
<tr>
<td>log(1+Cash Windfall)</td>
<td>0.0008*&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0005</td>
<td>0.0005</td>
<td>0.0005</td>
<td>0.0005</td>
<td>0.0005</td>
<td>0.0005</td>
<td>0.0005</td>
<td></td>
</tr>
<tr>
<td>Sales Growth</td>
<td>0.0012</td>
<td>0.0010</td>
<td>0.0030</td>
<td>0.0011</td>
<td>0.0017</td>
<td>0.0012</td>
<td>0.0010</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>EBIT/Total Assets</td>
<td>0.0185*&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0189*&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0180</td>
<td>0.0170*&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0169</td>
<td>0.0070</td>
<td>0.0052</td>
<td>0.0052</td>
<td></td>
</tr>
<tr>
<td>EBIT Deviation from Plan/TA (lag)</td>
<td>-0.0551***&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-0.0553***&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-0.0564***&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-0.0649***&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-0.0657***&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-0.0294</td>
<td>-0.0312</td>
<td>-0.0655***&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Imputed Tobin's Q (lag)</td>
<td>0.0077</td>
<td>0.0078</td>
<td>0.0045</td>
<td>0.0082</td>
<td>0.0084</td>
<td>0.0004</td>
<td>0.0013</td>
<td>0.0005</td>
<td></td>
</tr>
<tr>
<td>Fourth Quarter Dummy</td>
<td>0.0023</td>
<td>0.0024</td>
<td>0.0016</td>
<td>0.0025</td>
<td>0.0024</td>
<td>0.0042**&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0044**&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.0039</td>
<td>0.0029</td>
</tr>
<tr>
<td>Business Unit Fixed Effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Year Fixed Effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Observations</td>
<td>274</td>
<td>274</td>
<td>258</td>
<td>274</td>
<td>262</td>
<td>202</td>
<td>198</td>
<td>141</td>
<td></td>
</tr>
<tr>
<td>Number of Business Units</td>
<td>20</td>
<td>20</td>
<td>19</td>
<td>20</td>
<td>19</td>
<td>18</td>
<td>18</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Adjusted R-squared</td>
<td>0.132</td>
<td>0.130</td>
<td>0.137</td>
<td>0.142</td>
<td>0.147</td>
<td>0.129</td>
<td>0.128</td>
<td>0.069</td>
<td></td>
</tr>
</tbody>
</table>

Dependent Variable: (Capital Expenditures - Planned Capital Expenditures)/Total Assets
Panel B: External Director Positions as Ability Control

<table>
<thead>
<tr>
<th>Dependent Variable: (Capital Expenditures - Planned Capital Expenditures)/Total Assets</th>
<th>None</th>
<th>Same Univ. and Degree as CEO</th>
<th>Overlap Inside Firm with Board</th>
<th>Tenure at Firm</th>
<th>Tenure in Powerful Position</th>
<th>Proximity to HQ</th>
<th>Favorable Biographics</th>
<th>Networker Type</th>
<th>Connection to Division CEO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
<td>(5)</td>
<td>(6)</td>
<td>(7)</td>
<td>(8)</td>
<td>(9)</td>
</tr>
<tr>
<td>Managerial Power * log(1+Cash Windfall)</td>
<td>0.6554*</td>
<td>0.0055**</td>
<td>0.0372**</td>
<td>0.0693**</td>
<td>0.6895*</td>
<td>0.2918***</td>
<td>0.6618**</td>
<td>0.7403**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.3411)</td>
<td>(0.0021)</td>
<td>(0.0133)</td>
<td>(0.0316)</td>
<td>(0.3761)</td>
<td>(0.0869)</td>
<td>(0.2610)</td>
<td>(0.3247)</td>
<td></td>
</tr>
<tr>
<td>Managerial Power</td>
<td>-0.0033</td>
<td>-0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>-0.0007</td>
<td>-0.0016</td>
<td>-0.0014</td>
<td>-0.0014</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.0025)</td>
<td>(0.0000)</td>
<td>(0.0001)</td>
<td>(0.0002)</td>
<td>(0.0022)</td>
<td>(0.0010)</td>
<td>(0.0009)</td>
<td>(0.0015)</td>
<td></td>
</tr>
<tr>
<td>External Director Position * log(1+Cash Windfall)</td>
<td>-0.0006</td>
<td>-0.0006</td>
<td>-0.0007*</td>
<td>-0.0002</td>
<td>-0.0004</td>
<td>-0.0001</td>
<td>-0.0004</td>
<td>-0.0002</td>
<td>-0.0004</td>
</tr>
<tr>
<td></td>
<td>(0.0005)</td>
<td>(0.0005)</td>
<td>(0.0004)</td>
<td>(0.0003)</td>
<td>(0.0004)</td>
<td>(0.0004)</td>
<td>(0.0005)</td>
<td>(0.0006)</td>
<td>(0.0005)</td>
</tr>
<tr>
<td>External Director Position</td>
<td>-0.0026</td>
<td>-0.0027</td>
<td>-0.0026</td>
<td>-0.0029</td>
<td>-0.0026</td>
<td>-0.0007</td>
<td>-0.0002</td>
<td>-0.0048</td>
<td>-0.0030</td>
</tr>
<tr>
<td></td>
<td>(0.0023)</td>
<td>(0.0023)</td>
<td>(0.0023)</td>
<td>(0.0023)</td>
<td>(0.0022)</td>
<td>(0.0020)</td>
<td>(0.0020)</td>
<td>(0.0032)</td>
<td>(0.0039)</td>
</tr>
<tr>
<td>log(1+Cash Windfall)</td>
<td>0.0009*</td>
<td>0.0008</td>
<td>0.0004</td>
<td>0.0002</td>
<td>0.0002</td>
<td>0.0002</td>
<td>0.0002</td>
<td>0.0006</td>
<td>0.0006</td>
</tr>
<tr>
<td></td>
<td>(0.0004)</td>
<td>(0.0005)</td>
<td>(0.0003)</td>
<td>(0.0003)</td>
<td>(0.0004)</td>
<td>(0.0004)</td>
<td>(0.0006)</td>
<td>(0.0006)</td>
<td>(0.0006)</td>
</tr>
<tr>
<td>Sales Growth</td>
<td>0.0019</td>
<td>0.0012</td>
<td>0.0032</td>
<td>0.0020</td>
<td>0.0016</td>
<td>0.0012</td>
<td>0.0009</td>
<td>0.0002</td>
<td>0.0017</td>
</tr>
<tr>
<td></td>
<td>(0.0025)</td>
<td>(0.0026)</td>
<td>(0.0022)</td>
<td>(0.0025)</td>
<td>(0.0025)</td>
<td>(0.0033)</td>
<td>(0.0036)</td>
<td>(0.0056)</td>
<td>(0.0052)</td>
</tr>
<tr>
<td>EBIT/Total Assets</td>
<td>0.0223**</td>
<td>0.0203**</td>
<td>0.0236*</td>
<td>0.0195*</td>
<td>0.0198*</td>
<td>0.0082</td>
<td>0.0056</td>
<td>0.0066</td>
<td>0.0099</td>
</tr>
<tr>
<td></td>
<td>(0.0093)</td>
<td>(0.0093)</td>
<td>(0.0127)</td>
<td>(0.0100)</td>
<td>(0.0101)</td>
<td>(0.0179)</td>
<td>(0.0187)</td>
<td>(0.0240)</td>
<td>(0.0243)</td>
</tr>
<tr>
<td>EBIT Deviation from Plan/TA (lag)</td>
<td>-0.0471**</td>
<td>-0.0514***</td>
<td>-0.0494***</td>
<td>-0.0601***</td>
<td>-0.0632***</td>
<td>-0.0290</td>
<td>-0.0307</td>
<td>-0.0575***</td>
<td>-0.0670***</td>
</tr>
<tr>
<td></td>
<td>(0.0174)</td>
<td>(0.0190)</td>
<td>(0.0163)</td>
<td>(0.0180)</td>
<td>(0.0201)</td>
<td>(0.0306)</td>
<td>(0.0261)</td>
<td>(0.0174)</td>
<td>(0.0162)</td>
</tr>
<tr>
<td>Imputed Tobin's Q (lag)</td>
<td>0.0078</td>
<td>0.0080</td>
<td>0.0058</td>
<td>0.0085</td>
<td>0.0087</td>
<td>0.0006</td>
<td>0.0013</td>
<td>0.0004</td>
<td>0.0020</td>
</tr>
<tr>
<td></td>
<td>(0.0059)</td>
<td>(0.0068)</td>
<td>(0.0061)</td>
<td>(0.0057)</td>
<td>(0.0063)</td>
<td>(0.0067)</td>
<td>(0.0067)</td>
<td>(0.0076)</td>
<td>(0.0073)</td>
</tr>
<tr>
<td>Fourth Quarter Dummy</td>
<td>0.0015</td>
<td>0.0020</td>
<td>0.0008</td>
<td>0.0017</td>
<td>0.0021</td>
<td>0.0040**</td>
<td>0.0043**</td>
<td>0.0035</td>
<td>0.0028</td>
</tr>
<tr>
<td></td>
<td>(0.0015)</td>
<td>(0.0016)</td>
<td>(0.0014)</td>
<td>(0.0015)</td>
<td>(0.0016)</td>
<td>(0.0019)</td>
<td>(0.0019)</td>
<td>(0.0032)</td>
<td>(0.0032)</td>
</tr>
</tbody>
</table>

Business Unit Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
Year Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
Observations | 295 | 274 | 279 | 293 | 264 | 210 | 198 | 141 | 133 |
Number of Business Units | 20 | 20 | 0.138 | 20 | 19 | 19 | 18 | 13 | 12 |
Adjusted R-squared | 0.139 | 0.120 | 0.137 | 0.153 | 0.137 | 0.132 | 0.127 | 0.066 | 0.055 |
Table 10: Operating Business Unit Performance and Managerial Power and Connection

This table presents panel regressions based on business unit data of operating performance on measures of Business Unit CEO power and connection. The measures of power/connection are lagged by one period. We measure operating performance by EBIT/Total Assets (i.e., Return on Assets, RoA). Our results are robust if we use Sales Growth instead. As controls, we use cash flow from operations, past investment, marketing expenditures, R&D expenditures, business unit size (total sales), personnel intensity (Personnel/Total Assets), and a fourth quarter dummy. The regressions use quarterly data from January 2002 to December 2006. Robust standard errors are reported in parentheses and are clustered at the business unit level. Constants were included in the regressions but are not reported. The dependent variable and the controls are winsorized at 1%. *** indicates significance at 1%; ** indicates significance at 5%; * indicates significance at 10%.

<table>
<thead>
<tr>
<th>Dependent Variable: EBIT/Total Assets (RoA)</th>
<th>None</th>
<th>Same Univ. and Degree as CEO</th>
<th>Overlap Inside Firm with Board</th>
<th>Tenure at Firm</th>
<th>Tenure in Powerful Position</th>
<th>Proximity to HQ</th>
<th>Favorable Biographics</th>
<th>Networker Type</th>
<th>Connection to Division CEO</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Managerial Power (lag)</td>
<td>0.0060</td>
<td>0.0000</td>
<td>0.0001</td>
<td>0.0009</td>
<td>0.0028</td>
<td>0.0036</td>
<td></td>
<td>-0.0059</td>
<td>-0.0098**</td>
</tr>
<tr>
<td>(0.0098)</td>
<td></td>
<td></td>
<td>(0.0000)</td>
<td>(0.0004)</td>
<td>(0.0006)</td>
<td>(0.0097)</td>
<td></td>
<td>(0.0040)</td>
<td>(0.0043)</td>
</tr>
<tr>
<td>Cash Flow from Operations/Total Assets</td>
<td>0.1296***</td>
<td>0.2090***</td>
<td>0.1589**</td>
<td>0.2116***</td>
<td>0.1593**</td>
<td>0.1406</td>
<td>0.1278</td>
<td>0.1132</td>
<td>0.1140</td>
</tr>
<tr>
<td>(0.0415)</td>
<td></td>
<td></td>
<td>(0.0566)</td>
<td>(0.0402)</td>
<td>(0.0617)</td>
<td>(0.0914)</td>
<td></td>
<td>(0.1085)</td>
<td>(0.1074)</td>
</tr>
<tr>
<td>Capital Expenditure/Total Assets (lag)</td>
<td>-0.3653</td>
<td>-0.5474</td>
<td>-0.7280*</td>
<td>-0.4087</td>
<td>-0.7205</td>
<td>-0.4170</td>
<td>-0.4248</td>
<td>-0.4579</td>
<td>-0.4648</td>
</tr>
<tr>
<td>(0.2757)</td>
<td></td>
<td></td>
<td>(0.3416)</td>
<td>(0.3339)</td>
<td>(0.4346)</td>
<td>(0.3914)</td>
<td></td>
<td>(0.5183)</td>
<td>(0.5256)</td>
</tr>
<tr>
<td>R&amp;D Expenditures/Total Assets</td>
<td>-0.7681***</td>
<td>-0.5373**</td>
<td>-0.6891**</td>
<td>-0.5067**</td>
<td>-0.7885***</td>
<td>-1.2635**</td>
<td>-1.2274***</td>
<td>-1.1975**</td>
<td>-1.1630**</td>
</tr>
<tr>
<td>(0.1712)</td>
<td></td>
<td></td>
<td>(0.1792)</td>
<td>(0.1799)</td>
<td>(0.1340)</td>
<td>(0.1904)</td>
<td></td>
<td>(0.4293)</td>
<td>(0.4207)</td>
</tr>
<tr>
<td>Marketing Expenditures/Total Assets</td>
<td>0.1333</td>
<td>-0.0271</td>
<td>0.0463</td>
<td>-0.0371</td>
<td>0.0808</td>
<td>0.2551</td>
<td>0.2412</td>
<td>0.1988</td>
<td>0.1729</td>
</tr>
<tr>
<td>(0.1108)</td>
<td></td>
<td></td>
<td>(0.0952)</td>
<td>(0.1799)</td>
<td>(0.1340)</td>
<td>(0.1904)</td>
<td></td>
<td>(0.1942)</td>
<td>(0.1926)</td>
</tr>
<tr>
<td>Total Sales</td>
<td>0.0001**</td>
<td>0.0001*</td>
<td>0.0001*</td>
<td>0.0001*</td>
<td>0.0001*</td>
<td>0.0001*</td>
<td>0.0001*</td>
<td>-0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>(0.0000)</td>
<td></td>
<td></td>
<td>(0.0000)</td>
<td>(0.0000)</td>
<td>(0.0000)</td>
<td>(0.0000)</td>
<td></td>
<td>(0.0001)</td>
<td>(0.0001)</td>
</tr>
<tr>
<td>Personnel/Total Assets</td>
<td>-0.0015**</td>
<td>-0.0003</td>
<td>0.0001*</td>
<td>-0.0002</td>
<td>0.0005</td>
<td>0.0047**</td>
<td>0.0044**</td>
<td>0.0032*</td>
<td>0.0037**</td>
</tr>
<tr>
<td>(0.0007)</td>
<td></td>
<td></td>
<td>(0.0015)</td>
<td>(0.0021)</td>
<td>(0.0021)</td>
<td>(0.0018)</td>
<td></td>
<td>(0.0016)</td>
<td>(0.0013)</td>
</tr>
<tr>
<td>Fourth Quarter Dummy</td>
<td>0.0088</td>
<td>0.0028</td>
<td>0.0087</td>
<td>0.0039</td>
<td>0.0050</td>
<td>0.0159</td>
<td>0.0220</td>
<td>0.0274</td>
<td>0.0265</td>
</tr>
<tr>
<td>(0.0105)</td>
<td></td>
<td></td>
<td>(0.0126)</td>
<td>(0.0130)</td>
<td>(0.0124)</td>
<td>(0.0134)</td>
<td></td>
<td>(0.0211)</td>
<td>(0.0214)</td>
</tr>
<tr>
<td>Business Unit Fixed Effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Year Fixed Effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Observations</td>
<td>430</td>
<td>350</td>
<td>371</td>
<td>379</td>
<td>343</td>
<td>265</td>
<td>243</td>
<td>175</td>
<td>167</td>
</tr>
<tr>
<td>Number of Business Units</td>
<td>22</td>
<td>19</td>
<td>20</td>
<td>20</td>
<td>19</td>
<td>18</td>
<td>17</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>Adjusted R-squared</td>
<td>0.333</td>
<td>0.369</td>
<td>0.357</td>
<td>0.374</td>
<td>0.325</td>
<td>0.476</td>
<td>0.500</td>
<td>0.484</td>
<td>0.483</td>
</tr>
</tbody>
</table>
Table 11: Planned Business Unit Investment and Managerial Power and Connection

This table presents panel regression based on business unit data of planned capital expenditures on several measures of Business Unit CEO power and connection. The managerial power/connection variables are lagged by one period. We control for the lagged value of planned EBIT divided by lagged total assets (return on assets), planned personnel divided by lagged total assets, planned sales growth, lagged (planning period) deviation from planned and realized EBIT, and a Fourth Quarter Dummy (to control for seasonal effects). Planned capital expenditures is scaled by lagged total assets. The regressions use quarterly data from January 2002 to December 2006. The number of business units used in the regressions is below 22 due to missing variables for some units. Robust standard errors are reported in parentheses and are clustered at the business unit level. Constants were included in the regressions but are not reported. The dependent variable and the controls are winsorized at 1%. *** indicates significance at 1%; ** indicates significance at 5%; * indicates significance at 10%.

<table>
<thead>
<tr>
<th>Managerial Power Variable:</th>
<th>None</th>
<th>None</th>
<th>Same Univ. and Degree as CEO</th>
<th>Overlap Inside Firm with Board</th>
<th>Tenure at Firm</th>
<th>Tenure in Powerful Position</th>
<th>Proximity to HQ</th>
<th>Favorable Biographies</th>
<th>Networker Type</th>
<th>Connection to Division CEO</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
<td>(5)</td>
<td>(6)</td>
<td>(7)</td>
<td>(8)</td>
<td>(9)</td>
<td>(10)</td>
<td></td>
</tr>
<tr>
<td>Managerial Power (lag)</td>
<td>0.0008</td>
<td>-0.0000</td>
<td>-0.0002</td>
<td>-0.0001</td>
<td>-0.0017</td>
<td>0.0001</td>
<td>0.0002</td>
<td>0.0006</td>
<td>0.0326***</td>
<td>0.0322***</td>
</tr>
<tr>
<td>(0.0016)</td>
<td>(0.0000)</td>
<td>(0.0001)</td>
<td>(0.0002)</td>
<td>(0.0046)</td>
<td>(0.0009)</td>
<td>(0.0004)</td>
<td>(0.0008)</td>
<td>(0.0108)</td>
<td>(0.0109)</td>
<td></td>
</tr>
<tr>
<td>Planned EBIT/Total Assets (lag)</td>
<td>0.0326***</td>
<td>0.0322***</td>
<td>0.0325**</td>
<td>0.0306**</td>
<td>0.0359**</td>
<td>0.0334**</td>
<td>0.0333**</td>
<td>0.0383**</td>
<td>0.0333*</td>
<td></td>
</tr>
<tr>
<td>(0.0108)</td>
<td>(0.0109)</td>
<td>(0.0119)</td>
<td>(0.0078)</td>
<td>(0.0125)</td>
<td>(0.0126)</td>
<td>(0.0131)</td>
<td>(0.0155)</td>
<td>(0.0164)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Planned Personnel/Total Assets</td>
<td>0.0005**</td>
<td>0.0005**</td>
<td>0.0006***</td>
<td>0.0005**</td>
<td>0.0005**</td>
<td>0.0008**</td>
<td>0.0008**</td>
<td>0.0007</td>
<td>0.0006</td>
<td></td>
</tr>
<tr>
<td>(0.0002)</td>
<td>(0.0002)</td>
<td>(0.0002)</td>
<td>(0.0002)</td>
<td>(0.0002)</td>
<td>(0.0002)</td>
<td>(0.0004)</td>
<td>(0.0004)</td>
<td>(0.0004)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Planned Sales Growth</td>
<td>-0.0001</td>
<td>-0.0000</td>
<td>-0.0005</td>
<td>-0.0024</td>
<td>0.0004</td>
<td>-0.0007</td>
<td>0.0070</td>
<td>0.0074</td>
<td>0.0069</td>
<td>0.0043</td>
</tr>
<tr>
<td>(0.0053)</td>
<td>(0.0054)</td>
<td>(0.0059)</td>
<td>(0.0032)</td>
<td>(0.0046)</td>
<td>(0.0060)</td>
<td>(0.0058)</td>
<td>(0.0060)</td>
<td>(0.0081)</td>
<td>(0.0087)</td>
<td></td>
</tr>
<tr>
<td>Planned Cash Flow/Total Assets</td>
<td>-0.0033</td>
<td>-0.0022</td>
<td>-0.0012</td>
<td>0.0204</td>
<td>0.0074</td>
<td>0.0027</td>
<td>0.0125</td>
<td>0.0337</td>
<td>0.0088</td>
<td>0.0104</td>
</tr>
<tr>
<td>EBIT Deviation from Plan/Total Assets (lag)</td>
<td>0.0040</td>
<td>0.0036</td>
<td>-0.0012</td>
<td>0.0204</td>
<td>0.0074</td>
<td>0.0027</td>
<td>0.0125</td>
<td>0.0337</td>
<td>0.0088</td>
<td>0.0104</td>
</tr>
<tr>
<td>(0.0293)</td>
<td>(0.0301)</td>
<td>(0.0317)</td>
<td>(0.0251)</td>
<td>(0.0276)</td>
<td>(0.0310)</td>
<td>(0.0490)</td>
<td>(0.0411)</td>
<td>(0.0628)</td>
<td>(0.0569)</td>
<td></td>
</tr>
<tr>
<td>Fourth Quarter Dummy</td>
<td>-0.0018*</td>
<td>-0.0014</td>
<td>-0.0021*</td>
<td>-0.0028***</td>
<td>-0.0023**</td>
<td>-0.0019*</td>
<td>-0.0028**</td>
<td>-0.0025*</td>
<td>-0.0014</td>
<td>-0.0010</td>
</tr>
<tr>
<td>(0.0010)</td>
<td>(0.0010)</td>
<td>(0.0010)</td>
<td>(0.0009)</td>
<td>(0.0010)</td>
<td>(0.0011)</td>
<td>(0.0013)</td>
<td>(0.0013)</td>
<td>(0.0012)</td>
<td>(0.0013)</td>
<td></td>
</tr>
<tr>
<td>Business Unit Fixed Effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Year Fixed Effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Observations</td>
<td>227</td>
<td>227</td>
<td>208</td>
<td>200</td>
<td>212</td>
<td>196</td>
<td>152</td>
<td>147</td>
<td>107</td>
<td>99</td>
</tr>
<tr>
<td>Number of Business Units</td>
<td>19</td>
<td>19</td>
<td>18</td>
<td>17</td>
<td>18</td>
<td>17</td>
<td>16</td>
<td>16</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>R-squared</td>
<td>0.060</td>
<td>0.058</td>
<td>0.064</td>
<td>0.111</td>
<td>0.077</td>
<td>0.053</td>
<td>0.091</td>
<td>0.088</td>
<td>0.018</td>
<td>-0.007</td>
</tr>
</tbody>
</table>
Figure 1: Organizational Structure of the Conglomerate

This figure summarizes the organizational structure of the conglomerate. It shows the five divisions and illustrates that Division 2, for example, has a total of eight business units underneath. The divisions are run by Division CEOs while the business units are run by Business Unit CEOs.

BU = Business Unit
This figure presents an overview of the process behind the allocation of capital. The capital allocation process consists of two phases, the Strategic Outlook and the Annual Capital Allocation Plan. The figure shows how these two phases related to each other, what the involved parties are, and who makes what decisions and when.

**Phase 1: Strategic Outlook for Business Units**

**Objective:** Three-year long-term strategic plan ("guide")

- **Involved Party:** Business Unit CEO, Division CEO, Executive Board (Headquarters)
- **January:** Start identifying long-term investment opportunities and present them to Division CEO/CFO
- **February:** Negotiations over long-term investment opportunities. Business Units
- **March:** Preliminary decisions on long-term business plans of Business Units
- **April:** Final decision on long-term business plans for Business Units (three-year strategic outlook)

**Phase 2: Annual Capital Allocation Plan for Business Units**

**Objective:** One-year detailed capital allocation plan

- **Involved Party:** Business Unit CEO, Division CEO, Executive Board (Headquarters)
- **June:** Based on Strategic Outlook, prepare one-year concrete investment and allocation targets of Business Units
- **July:** Negotiations over one-year investment and allocation targets of Business Units
- **August:** Preliminary decisions on one-year investment and allocation targets of Business Units
- **September/October:** Negotiations over one-year investment and allocation targets of Business Units
- **October/November:** Final decision on one-year annual capital allocation plan for all Business Units

Our data source: Annual Capital Allocation Plan
This figure presents an overview of the processes behind the allocation of capital over time and shows the data we have available. Data on planned and actual capital allocation is available from 2002-2006.

**Figure 3: Capital Budgeting Process over Time and Available Data**

**Capital Budgeting Process at Conglomerate**

- **Budgeting Process for:**
  - Years 2002-2004: Meetings → Annual Capital Allocation Plan → Strategic Outlook
  - Years 2003-2005: Meetings → Annual Capital Allocation Plan → Strategic Outlook
  - Years 2004-2006: Meetings → Annual Capital Allocation Plan → Strategic Outlook
  - Years 2005-2007: Meetings → Annual Capital Allocation Plan → Strategic Outlook
  - Years 2006-2008: Meetings → Annual Capital Allocation Plan → Strategic Outlook
  - Years 2007-2009: Meetings → Annual Capital Allocation Plan → Strategic Outlook

- **Availability of Data:**
  - Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
  - 2001 2002 2003 2004 2005 2006

- **Actual Data:**
  - Actual Capital Allocation Data (2002-2006)

- **Plan Data:**
  - Annual Capital Allocation Plan Data (2002-2006)

- **D.** means: "Decision over plan is made"
Figure 4: Importance of Cash Windfalls Relative to Firm Level Variables

This figure documents the relative importance of the cash windfalls by relating the resulting cash inflows to sales, total assets, cash flow from operations, capital expenditures, and EBIT of the firm. The firm variables are calculated by aggregating the corresponding division figures. Cash windfalls occurred in the year 2003 (one windfall), 2004 (three windfalls), and 2005 (four windfalls). The figure relates the cash windfalls of the respective years to the corresponding firm level variables of the same year.

Importance of Cash Windfalls Relative to Firm Level Variables

- Cash Windfalls/Sales
- Cash Windfalls/Total Assets
- Cash Windfalls/Cash Flow from Operations
- Cash Windfalls/Capital Exp.
- Cash Windfalls/EBIT

Cash Windfall in 2003
Cash Windfalls in 2004
Cash Windfalls in 2005
This figure documents the relative importance of the cash windfalls by relating the resulting cash inflows to sales, total assets, and cash flow from operations of the five divisions. Cash windfalls occurred in the year 2003 (one windfall), 2004 (three windfalls), and 2005 (four windfalls). The figure relates the cash windfalls of the respective years to the corresponding division level variables of the same year. The division level variables result from the aggregation of business unit variables.

**Panel A: Cash Windfall 2003**

**Panel B: Cash Windfalls 2004**
Panel C: Cash Windfalls 2005

Importance of Cash Windfalls 2005 Relative to Division Variables

- Division 1
  - Cash Windfall/Sales: 31%
  - Cash Windfall/Total Assets: 44%
  - Cash Windfall/Cash Flow from Oper.: 27%

- Division 2
  - Cash Windfall/Sales: 41%
  - Cash Windfall/Total Assets: 58%
  - Cash Windfall/Cash Flow from Oper.: 48%

- Division 3
  - Cash Windfall/Sales: 58%
  - Cash Windfall/Total Assets: 77%
  - Cash Windfall/Cash Flow from Oper.: 53%

- Division 4
  - Cash Windfall/Sales: 68%
  - Cash Windfall/Total Assets: 80%
  - Cash Windfall/Cash Flow from Oper.: 60%

- Division 5
  - Cash Windfall/Sales: 317%
  - Cash Windfall/Total Assets: 314%
  - Cash Windfall/Cash Flow from Oper.: 377%

Legend:
- Cash Windfall/Sales
- Cash Windfall/Total Assets
- Cash Windfall/Cash Flow from Oper.
This figure illustrates cumulative abnormal returns for the firm’s stock price around the cash windfall announcement dates ($t=0$).
This figure illustrates actual minus planned capital expenditures, standardized by total assets, of the business units of the firm in cash windfall and no cash windfall quarters. Cash windfalls occurred in Q4 2003 (one windfall), Q3 2004, Q4 2004 (two windfalls), Q2 2005, Q3 2005 (two windfalls), and Q4 2005. The tables reports mean and median values calculated over the respective business unit quarters. Negative numbers suggest that actual investment is below planned investment.
## Appendix

### Appendix A-1: Overview of Data Sets and Data Sources

This table provides an overview of the three data sets we use, provides the respective content as well as the time periods and the sources.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Content</th>
<th>Time Period</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data on Capital Allocations</strong></td>
<td><strong>Actual Data:</strong> Data on actual capital allocations for all 5 Divisions and 22 Business Units.</td>
<td>Monthly from 01/2002-12/2006</td>
<td>Internal management accounting system of the firm.</td>
</tr>
<tr>
<td></td>
<td><strong>Plan Data:</strong> Data on the planned capital allocations for all 5 Divisions and 22 Business Units. Plan data is not adjusted during the year, i.e. we have the initial allocation plans. There is hence no bias from manipulations of the plans once performance occurred during the year.</td>
<td>Quarterly from 01/2002-12/2006</td>
<td>Internal management accounting system of the firm.</td>
</tr>
<tr>
<td><strong>Data on Managerial Power/Connection Inside the Firm</strong></td>
<td><strong>Business Unit CEOs:</strong> For 43 out of 43 Business Unit CEOs data on places of residence, university degrees, past careers, and tenure.</td>
<td>01/2002-12/2006</td>
<td>Self-constructed based on management profile data from BoardEx and Zoominfo. We complemented and cross-checked this data with information from social networking web pages (e.g., LinkedIn, Facebook, My Space), annual reports, and a systematic web and newspaper search.</td>
</tr>
<tr>
<td></td>
<td>For 20 out of 43 Business Unit CEOs survey-based power/connection measures (see Appendix A-6).</td>
<td>01/2002-12/2006</td>
<td>Self-constructed based on a survey data which we developed and ran ourselves.</td>
</tr>
<tr>
<td></td>
<td><strong>Division CEOs:</strong> For 13 out of 13 Division CEOs data on places of residence, university degrees, past careers, and tenure.</td>
<td>01/2002-12/2006</td>
<td>Self-constructed based on management profile data from BoardEx and Zoominfo. We complemented and cross-checked this data with information from social networking web pages (e.g., LinkedIn, Facebook, My Space), annual reports, and a systematic web and newspaper search.</td>
</tr>
<tr>
<td><strong>Data on Cash Windfalls</strong></td>
<td>Headquarters has equity stakes in other firms that were sold and resulted in 8 large cash windfalls. Cash windfalls are largely exogenous (firm is not financially constrained).</td>
<td>01/2002-12/2006</td>
<td>Self-constructed based on annual reports, press statements, and web searches.</td>
</tr>
</tbody>
</table>
Appendix A-2: Detailed Description of the Capital Allocation Process

To understand whether and where bargaining power of managers inside the firm plays a role for capital allocations, we have access to information describing the capital allocation process of the firm. We can use documents on (i) the institutional details of the allocation process, (ii) the timeline of budgeting meetings, (iii) the managers who participate in these meetings, and (iv) the approval procedures for investments. The general strategy of the firm, developed by the executive board, serves as the foundation for all major corporate investment decisions. To transform this general corporate strategy into concrete capital allocations and investment decisions, the firm has a very standardized two-phase process in place.

Phase 1: The Strategic Outlook

The objective of the first phase (strategic outlook) is to develop a three-year strategic plan for all business units of the firm. Therefore, the firm tries to identify future growth opportunities for the divisions and business units therein. The strategic outlook includes general targets for planned investments and required resource allocations for all divisions and serves as the foundation for the internal capital allocation process. The process is very institutionalized and structured, and it typically starts in January and ends in April of a given year, with decisions being made for the three-year period starting in January of the subsequent year. An important aspect of the strategic outlook is to have discussions between Division and Business Unit CEOs and the executive board on long-run strategies on the divisions and their business units.

The strategic outlook starts with the Business Unit CEOs taking the lead and identifying long-term investment opportunities for their units. During February, negotiations take place between the Business Unit CEOs and the corresponding Division CEOs over these identified opportunities, with preliminary decisions on the implied business plans being made by the Division CEOs in March. Each Division CEO and his Business Unit CEO then present the three-year business plans of their units to the executive board and negotiates over revisions and adjustments. Following these negotiations, a final decision on the figures in the strategic outlook is made in a meeting of the executive board in April.

Phase 2: The Annual Capital Allocation Plan

Right after the finalization of the strategic outlook, a concrete annual capital allocation plan is developed for the coming year. The annual capital allocation plan is a one-year investment plan containing detailed resource allocations for all business units. The link between the strategic outlook and the allocation plan is the breaking down of the business plans for the setting of very concrete investment targets. The annual allocation plan also translates into a complete set of balance sheets and income statements for each business unit, which are subsequently aggregated and consolidated at the division as well as the firm level.

Discussions over the annual allocation plan start in June with the Division CEOs, based on the strategic outlook, preparing investment and allocation targets for the coming year. The Business Unit and Division CEOs then jointly negotiate over these allocation plans and conduct revisions and adjustments. Preliminary decisions over the budgets are then being made in August. As in the strategic outlook, the Division and Business Unit CEOs then present the capital allocation plan for their divisions to the executive board and a
second round of in-depth joint negotiations and revisions takes place. Finally, in October or November, the executive board decides on the investment and allocation targets for the coming year. The divisions and business units then receive the approved plan and build it into their planned budget for the next year.

Execution of Allocation and Investment Decisions

The process behind the concrete execution of capital expenditures for specific projects is relatively straightforward. The firm requires approval by the executive board for any project which involves investments or divestments in tangible or intangible fixed assets that exceed a specific threshold (in EUR). The respective thresholds depend on the different divisions and vary from 5 to 35 million EUR, depending on the capital intensity of the different units. In order to get board approval, each business unit has to document that the pursued investment generates a positive NPV. As the discount rate for the NPV calculation, the firm uses a project-specific weighted average cost of capital (WACC). The inputs used for the calculation of the WACC are provided by the headquarters. All investments which are below the investment thresholds are at the discretion of the business units and can easily and quickly be executed (e.g., buying or replacing small machines or IT).
## Appendix A-3: Definition of Variables

This table summarizes and defines the variables used in the empirical analysis. All financial variables are measured in EUR (except for sales growth, total personnel, and the managerial power and connectedness variables). The financial variables listed below are available at the business unit level.

### Variable Description

<table>
<thead>
<tr>
<th>Financial Variables</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital Expenditures</td>
<td>Defined as investments of a business unit in tangible and intangible assets, adjusted for proceeds from the sales of fixed assets and/or software.</td>
</tr>
<tr>
<td>Sales</td>
<td>Defined as the proceeds of a business unit from the sales of products or services to third parties and other divisions inside the firm.</td>
</tr>
<tr>
<td>Sales Growth</td>
<td>Defined as the difference between this period sales and previous period sales divided by previous period sales of a business unit.</td>
</tr>
<tr>
<td>EBIT</td>
<td>Defined as earnings before interest payments and taxes of a business unit.</td>
</tr>
<tr>
<td>Total Assets</td>
<td>Defined as the sum of the book values of a business unit's fixed and current assets.</td>
</tr>
<tr>
<td>EVA</td>
<td>Economic Value Added, defined as EBITDA minus taxes and cost of capital times capital employed.</td>
</tr>
<tr>
<td>Cash Flow from Operations</td>
<td>Defined as net income +/- depreciation and amortization +/- changes in working capital of a business unit.</td>
</tr>
<tr>
<td>Personnel</td>
<td>Defined as the number of employees being employed in a business unit.</td>
</tr>
<tr>
<td>R&amp;D Expenditures</td>
<td>Defined as expenses related to research and development of a business unit.</td>
</tr>
<tr>
<td>Marketing Expenditures</td>
<td>Defined as expenses related to the marketing and selling of the products of a business unit.</td>
</tr>
<tr>
<td>Imputed Tobin’s Q</td>
<td>The median value of an imputed Tobin’s Q from all other firms from the European Union with the same 3-digit SIC code as the business unit. This data comes from Datastream/Worldscope.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Managerial Power and Connection Variables</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proximity to HQ</td>
<td>Dummy variable that takes the value 1 if an individual lives in the country where the firm originates from and has its headquarters.</td>
</tr>
<tr>
<td>Same Univ. and Degree as CEO</td>
<td>Dummy variable that takes the value 1 if an individual studied at the same university as the CEO and also graduated in the same discipline (engineering).</td>
</tr>
<tr>
<td>Overlap Inside Unit with Board</td>
<td>Number of months during which, at some point in the past, a person had an overlap within a unit of the firm with a person which later became an executive board (e.g., worked at the same time in the same business unit as the CEO).</td>
</tr>
<tr>
<td>Tenure at Firm</td>
<td>Number of years a person has been working for the firm.</td>
</tr>
<tr>
<td>Tenure in Powerful Position</td>
<td>Number of years a person has been working in a powerful position at the firm (e.g., Division CEO, Business Unit CEO, or Head of Marketing).</td>
</tr>
<tr>
<td>Favorable Biographics</td>
<td>Index which measures whether a manager has characteristics which are likely to be helpful for being well connected inside the firm. Index ranges from 0 and 4 and is formed by adding 1 when a unit manager: (1) speaks the local language; (2) has the local nationality; (3) went to the university of the CEO; (4) graduated in the same discipline (engineering) as the CEO.</td>
</tr>
<tr>
<td>Networker Type</td>
<td>Index which measures to what extent a Business Unit CEO undertakes networking activities. Index, ranges from 0 to 5 and is formed by adding one when a manager: (1) is a member in a fraternity; (2) is a member of a social club in the firm; (3) regularly stops by the headquarters to say Hello; (4) accepts regularly highly visible work assignments; (5) participated regularly on highly visible task forces or committees.</td>
</tr>
<tr>
<td>Connection to Division CEO</td>
<td>Index which measures how well connected a Business Unit CEO is to his Division CEO. Index ranges from 0 to 3 and adds one when a manager: (1) has a Division CEO as a personal mentor; (2) goes at least occasionally for lunch with the Division CEO; (3) meets the Division CEO in persona at least every two weeks.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cash Windfall Variable</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash Windfall</td>
<td>Cash inflow at the headquarters level that results from the selling of equity stakes in other firms (in million EUR).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Managerial Ability Variable</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>External Director Position</td>
<td>Dummy variable which takes the value 1 if a manager holds a non-executive director position outside the conglomerate next to his management position inside the firm.</td>
</tr>
</tbody>
</table>
### Appendix A-4: Construction of Survey-Based Measures of Business Unit CEO Power

This table provides an overview of the survey-based power measures. These measures are constructed at the Business Unit CEO level and based on 20 surveys which have been returned by the Business Unit CEOs.

#### Networker Type (Possible range: 0 (low power/connection) to 5 (high power/connection))

<table>
<thead>
<tr>
<th>Components</th>
<th>Definition</th>
<th>Source of Question</th>
<th>Summary Statistics (mean)</th>
<th>Obs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member Fraternity</td>
<td>=1 if BU CEO is Member of a Fraternity, 0 Otherwise.</td>
<td>Self-constructed</td>
<td>0.30</td>
<td>20</td>
</tr>
<tr>
<td>Company Clubs</td>
<td>=1 if BU CEO participates in Social Clubs within the Company, 0 Otherwise.</td>
<td>Self-constructed</td>
<td>0.21</td>
<td>19</td>
</tr>
<tr>
<td>Stop by HQ</td>
<td>=1 if BU CEO stops by the HQ to say Hello “moderately often, every few weeks” or more, 0 Otherwise.</td>
<td>Forret and Dougherty (2001, 2004)</td>
<td>0.65</td>
<td>17</td>
</tr>
<tr>
<td>Accept Visible Tasks</td>
<td>=1 if BU CEO accepts new, highly visible work assignments at least 4 to 5 times during last year, 0 Otherwise.</td>
<td>Forret and Dougherty (2001, 2004)</td>
<td>0.65</td>
<td>17</td>
</tr>
<tr>
<td>Visible Task Forces</td>
<td>=1 if BU CEO was at least 4 to 5 times during last year on highly visible task forces or committees, 0 Otherwise.</td>
<td>Forret and Dougherty (2001, 2004)</td>
<td>0.67</td>
<td>18</td>
</tr>
</tbody>
</table>

#### Connection to Division CEO (Possible range: 0 (low power/connection) to 3 (high power/connection))

<table>
<thead>
<tr>
<th>Components</th>
<th>Definition</th>
<th>Source of Question</th>
<th>Summary Statistics (mean)</th>
<th>Obs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division CEO as Mentor</td>
<td>=1 if BU CEO has Division CEO as Mentor, 0 Otherwise.</td>
<td>Podolny and Baron (1997)</td>
<td>0.50</td>
<td>18</td>
</tr>
<tr>
<td>Lunch with Division CEO</td>
<td>=1 if BU CEO goes at least occasionally for lunch with Division CEO, 0 Otherwise.</td>
<td>Forret and Dougherty (2001, 2004)</td>
<td>0.53</td>
<td>17</td>
</tr>
<tr>
<td>Meet Division CEO in Person</td>
<td>=1 if BU CEO meets Division CEO in person at least every two weeks, 0 Otherwise.</td>
<td>Self-constructed</td>
<td>0.37</td>
<td>19</td>
</tr>
</tbody>
</table>
Appendix A-5: Correlations of Measures of Managerial Power

This table provides cross-sectional correlation coefficients among our measures of Business Unit CEO (Panel A) as well as Division CEO power (Panel B).

### Panel A: Business Unit CEO Variables

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
<th>(5)</th>
<th>(6)</th>
<th>(7)</th>
<th>(8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proximity to HQ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Same Univ. and Degree as CEO</td>
<td>(1)</td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overlap Inside Firm with Board</td>
<td>(2)</td>
<td>0.70</td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tenure at Firm</td>
<td>(3)</td>
<td>0.45</td>
<td>0.67</td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tenure in Powerful Position</td>
<td>(4)</td>
<td>0.74</td>
<td>0.65</td>
<td>0.85</td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Favorable Biographics</td>
<td>(5)</td>
<td>0.23</td>
<td>0.36</td>
<td>0.53</td>
<td>0.51</td>
<td>1.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Networker Type</td>
<td>(6)</td>
<td>0.58</td>
<td>0.70</td>
<td>0.72</td>
<td>0.78</td>
<td>0.83</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Connection to Division CEO</td>
<td>(7)</td>
<td>-0.08</td>
<td>0.11</td>
<td>0.04</td>
<td>0.03</td>
<td>-0.06</td>
<td>-0.13</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>(8)</td>
<td>0.16</td>
<td>0.31</td>
<td>0.37</td>
<td>0.36</td>
<td>0.51</td>
<td>0.46</td>
<td>0.39</td>
</tr>
</tbody>
</table>

### Panel B: Division CEO Variables

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
<th>(5)</th>
<th>(6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proximity to HQ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Same Univ. and Degree as CEO</td>
<td>(1)</td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overlap Inside Firm with Board</td>
<td>(2)</td>
<td>0.97</td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tenure at Firm</td>
<td>(3)</td>
<td>0.38</td>
<td>0.37</td>
<td>1.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tenure in Powerful Position</td>
<td>(4)</td>
<td>0.73</td>
<td>0.70</td>
<td>0.50</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Favorable Biographics</td>
<td>(5)</td>
<td>0.11</td>
<td>-0.06</td>
<td>0.38</td>
<td>0.13</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>(6)</td>
<td>0.84</td>
<td>0.77</td>
<td>0.55</td>
<td>0.69</td>
<td>0.31</td>
</tr>
</tbody>
</table>
Appendix A-6: Detailed Description of Cash Windfalls

This table presents a detailed description of the cash windfalls. It contains information on the date on which the stake was sold, the main country in which the company operated, where the sold company was traded, the equity stake our conglomerate had before and after the sale (in %), the cash inflow resulting from the sale, the reported profit on the sale, and the procedure of the sale (SEO meaning seasoned equity offering, IPO meaning initial public offering, and OTC meaning sale over-the-counter). The table further reports how the company obtained the stake, the holding period of the stake, the stated reasons on why the stake was sold, the stated reasons on what the sample firm did with the proceeds, and whether the stake was unrelated to the activities of the business units of the firm. This table is based on information from company news reports as well as newspaper articles.

<table>
<thead>
<tr>
<th>Equity Stake</th>
<th>Date of Sale</th>
<th>Main Country of Operation</th>
<th>Company Publicly Traded?</th>
<th>Performance of Company before Sale</th>
<th>Pre-Sale Equity Stake (in %)</th>
<th>Post-Sale Equity Stake (in %)</th>
<th>How did Company get Equity Stake?</th>
<th>Cash Windfall (in million EUR)</th>
<th>Profit on Sale (in million EUR)</th>
<th>Procedure of Sale</th>
<th>Holding Period (in years)</th>
<th>Stated Reason for Sale</th>
<th>Stated Use of Money</th>
<th>Un-related?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equity Stake 1</td>
<td>Q4 2003</td>
<td>Taiwan</td>
<td>Yes (Taiwan Stock Exchange and NYSE)</td>
<td>Good performance</td>
<td>25.1</td>
<td>19.1</td>
<td>Firm initially set-up as joint venture</td>
<td>935</td>
<td>695</td>
<td>SEO</td>
<td>16</td>
<td>Non-strategic asset; Exploit high market value</td>
<td>General corporate purposes, Reduction of debt</td>
<td>No</td>
</tr>
<tr>
<td>Equity Stake 2</td>
<td>Q3 2004</td>
<td>US</td>
<td>Yes (NYSE)</td>
<td>Normal performance</td>
<td>83.5</td>
<td>37.7</td>
<td>Results from venture capital investment</td>
<td>672</td>
<td>635</td>
<td>IPO</td>
<td>19</td>
<td>Non-strategic asset</td>
<td>General corporate purposes</td>
<td>Yes</td>
</tr>
<tr>
<td>Equity Stake 3</td>
<td>Q4 2004</td>
<td>Worldwide</td>
<td>Yes (EURONEXT Paris and NYSE)</td>
<td>Bad performance</td>
<td>3</td>
<td>0</td>
<td>Results from carve-out of former Business Unit</td>
<td>720</td>
<td>300</td>
<td>OTC</td>
<td>6</td>
<td>Non-strategic asset; Exploit high market value</td>
<td>Fund strategic growth options</td>
<td>Yes</td>
</tr>
<tr>
<td>Equity Stake 4</td>
<td>Q4 2004</td>
<td>Europe</td>
<td>Yes (EURONEXT Paris)</td>
<td>Normal performance</td>
<td>31.9</td>
<td>15.4</td>
<td>Results from carve-out of former Business Unit</td>
<td>550</td>
<td>160</td>
<td>OTC</td>
<td>4</td>
<td>Non-strategic asset; Reduce exposure to cyclical industry; Non-strategic asset</td>
<td>Fund strategic growth options</td>
<td>Yes</td>
</tr>
</tbody>
</table>
### Appendix A-6: Detailed Description of Cash Windfalls (continued)

<table>
<thead>
<tr>
<th>Equity Stake</th>
<th>Date of Sale</th>
<th>Main Country of Operation</th>
<th>Company Publicly Traded?</th>
<th>Performance of Company before Sale</th>
<th>Pre-Sale Equity Stake (in %)</th>
<th>Post-Sale Equity Stake (in %)</th>
<th>How did Company get Equity Stake?</th>
<th>Cash Windfall (in million EUR)</th>
<th>Profit on Sale (in million EUR)</th>
<th>Procedure of Sale</th>
<th>Holding Period (in years)</th>
<th>Stated Reason for Sale</th>
<th>Stated Use of Money</th>
<th>Un-related?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equity Stake 5</td>
<td>Q2 2005</td>
<td>US</td>
<td>Yes (NYSE)</td>
<td>Normal performance</td>
<td>37.1</td>
<td>3.5</td>
<td>Results from venture capital investment</td>
<td>870</td>
<td>753</td>
<td>SEO</td>
<td>20</td>
<td>Exploit high market value</td>
<td>Fund strategic growth options</td>
<td>Yes</td>
</tr>
<tr>
<td>Equity Stake 6</td>
<td>Q3 2005</td>
<td>Europe</td>
<td>Yes (EURONEXT Paris)</td>
<td>Normal performance</td>
<td>15.4</td>
<td>0</td>
<td>Results from carve-out of former Business Unit</td>
<td>550</td>
<td>185</td>
<td>OTC</td>
<td>5</td>
<td>Non-strategic asset</td>
<td>Fund strategic growth options</td>
<td>Yes</td>
</tr>
<tr>
<td>Equity Stake 7</td>
<td>Q3 2005</td>
<td>Taiwan</td>
<td>Yes (Taiwan Stock Exchange and NYSE)</td>
<td>Normal performance</td>
<td>19</td>
<td>16.4</td>
<td>Firm initially set-up as joint venture</td>
<td>715</td>
<td>460</td>
<td>SEO</td>
<td>18</td>
<td>Non-strategic asset</td>
<td>n/a</td>
<td>No</td>
</tr>
<tr>
<td>Equity Stake 8</td>
<td>Q4 2005</td>
<td>Korea</td>
<td>Yes (Korea Stock Exchange and NYSE)</td>
<td>Good performance</td>
<td>40.5</td>
<td>32.9</td>
<td>Firm initially set-up as joint venture</td>
<td>615</td>
<td>211</td>
<td>SEO</td>
<td>6</td>
<td>Reduce exposure to cyclical industry</td>
<td>Fund strategic growth options</td>
<td>No</td>
</tr>
</tbody>
</table>