

Political Connection and Business Transformation in Family Firms: Evidence from China

ABSTRACT: We investigate the impact of family ownership on core business transformation and the moderating role of political connections in this relation through a Probit model, conditional Logit model, and Heckman selection model with instrumental variable using data from Chinese listed companies covering 2001 to 2010. The results demonstrate that, compared with non-family firms, family firms are more likely to transform their core business, enter strongly correlative industries and non-regulated industries, and adopt a mergers and acquisitions (M&A) mode. Furthermore, compared with politically non-connected family firms, family firms with political connections are more likely to conduct business transformation and adopt M&A rather than an internal cultivation mode to realize transformation. In addition, political connections make family firms more likely to enter weakly correlative industries and increase their chances of entering government-regulated industries.

Keywords: business transformation; transformation mode; family firm; political connection; ownership

1. Introduction

Enterprises are increasingly conducting business transformation actively or passively amid the acceleration of economic globalization, the discontinuous progress of technology, the relaxation of government regulations, and ever-changing consumer preferences (Zook & Allen, 2010; Aspara et al., 2013). In North America, Zook and Allen (2010) found that nearly 20% of the continuously growing companies had experienced at least one fundamental change to their core business. In China, more than 46% of listed companies completed business transformation from 2001 to 2011. Unlike a diversification strategy, which is just an enterprise's expansion of business scope (Nayyar, 1992), business transformation is about making fundamental changes in an enterprise's core business when the organisation's products or services are out of date, funding or income streams are changed, new regulations come into force, or market competition becomes more intense (Kotter, 1995; Chairman & Bossidy, 2008). Business transformation is the breakthrough point that can allow an enterprise to surpass its growth limit and ensure sustained growth capacity (Porter, 1991).

The two key issues when conducting business transformation are direction and modes of transformation. The direction of a firm's transformation will have either a weak or a strong correlation, depending on whether its original business is related to the transformed business (Wang, 2012). For example, IBM's transformation from IT hardware manufacturing to IT software production had strong correlations, while Galanz's transformation from feather down production to microwave oven manufacturing illustrates weak correlation. Mode of transformation refers to the means by which the enterprise enters a new industry: this can occur

through either internal cultivation or mergers and acquisitions (M&A). In internal cultivation, the enterprise fosters a new business from the seed stage to the incubation and growth stages entirely through its own resources and capabilities; in M&A, corporations gain ownership of or controlling power over target enterprises by merging with or acquiring them. For example, Galanz, the world's largest producer of microwave ovens, transformed its core business from down products to microwave ovens by internal cultivation from 1993 to 1995; IBM accomplished business transformation through about 30 M&A from 1984 to 2005.

Given the important impact of a transformation strategy on firm performance, many challenge-seeking researchers among both academics and industry practitioners have spent a great deal of effort examining the influence factors in transformation strategy choice. The literature has assumed that the decline in industry and corporate performance is the main driving factor for firms' business transformation (Gordon et al., 2000; Delmar et al., 2003; Zook & Allen, 2010) and has attempted to reveal the determining factors in transformation strategy from the angle of financial condition (Amihud & Lev, 1999; Wang, 2012). However, not all firms are in declining industries or fail drastically before engaging in transformation, and many blue-chip companies are keen on business transformation as well. In addition, many companies have chosen different modes of business transformation despite being in similar financial situations.

We argue that corporate ownership is an important factor influencing decision making in business transformation and that choices of transformation mode differ between family and non-family firms. Furthermore, from the institutional angle, political connections also play an important role in business transformation and may have a greater impact on family firms than on non-family firms. For example, compared with non-family companies, family firms have obvious inheriting characteristics due to the particularity of their ownership (Carter & Ram, 2004) and have a strong motivation to create wealth across generations and build a legacy (Zahra et al., 2004; Carney, 2005; Habbershon, 2006). Therefore, they may be more likely than other types of public companies to conduct business transformation. At the same time, family firms may be more likely to enter new industries related to their original businesses because of their aversion to risk (Patel & Chrisman, 2014). In addition, Chinese family firms suffered political and social discrimination because of China's socialist ideology (Xu et al., 2013; Su et al., 2013) and therefore find it more difficult to enter government-regulated industries than do non-family firms. However, some family firms expand their areas of investment by fostering connections with the government. There is much evidence that political connectedness can help family firms enter regulated industries (Faccio et al., 2006; Li et al., 2008; Ding et al., 2014; Xu et al., 2015), as the political connections may help family firms obtain more business transformation options.

This paper investigates the impact of family ownership on business transformation and the moderating role of political connections in such a relation using data from Chinese listed companies. The results contribute to the existing literature in two ways. First, most of the literature emphasizes the impact of an enterprise's financial situation on business transformation motivation and modes, whereas this paper highlights the relationship between ownership and business transformation. Specifically, we contrast family firms with non-family firms and reveal the significant differences between them in their choices of transformation mode. Second, the extant literature on the effects of political connections focus on firm performance (Wu et al., 2012; Xu et al., 2015; Muttakin et al., 2015), investment behaviour (Xu et al., 2013; Zhou, 2013), market capabilities (Jia, 2015), and control structure (Chen et al., 2011). We examine a new and important dependent variable: business transformation. The results show that political connections have a significant moderating effect on the relationship between family ownership and business transformation.

2. Development of hypotheses

Due to their unique inheriting characteristics (Carter & Ram, 2004), family firms have strong strategic demands for developing and creating wealth across generations (Habbershon & Pistrui, 2002). Wealth across generations is a continuous wealth stream that needs to avoid the influence of market changes and the erosion of asset values. Following an entrepreneurship-oriented rather than management-oriented strategy becomes the basic condition for family firms' creation of wealth across generations and realization of intergenerational succession (Habbershon & Pistrui, 2002; Riviezzo et al., 2015). Entrepreneurship is not just a phasic strategy in the lifecycle of family firms but runs through the whole process of their growth (Ucbasaran et al., 2001). As a particular form of continuous entrepreneurship, business transformation plays an important role in family firms' long-term survival and success, especially when their core business is facing adverse market conditions (Plate et al., 2010). Therefore, the concept of wealth across generations means that family firms have a stronger motivation than do other types of public company to conduct business transformation, as has been demonstrated in numerous studies (Zahra, 2003; Carney, 2005; Zahra, 2005; Habbershon, 2006).

Business transformation is inevitably associated with large capital expenditures and has very high requirements for resource reserves and financing capacity from the companies. However, Chinese family firms face severe financing constraints because of their non-state status and China's socialist ideology; thus, their investments depend heavily on internally generated funds. China's family firms emerged at the beginning of the economic reform of the 1980s; however, their development was hindered by communist ideology before 1990. After Deng Xiaoping's seminal comment on his tour to South China in 1992, family firms were finally set on

the right development track. Despite the speed with which family firms developed after 1978, they not only suffered political and social discrimination but also had to deal with an unfavourable economic environment. The government still controls most resources, and SOEs still enjoy preferential status in obtaining bank loans and other key inputs (Allen et al., 2005; Detomasi, 2008; Li et al., 2008; Jackowicz, 2014). Moreover, most of China's family firms are smaller and younger than are their state-owned counterparts and are thus a higher risk in the eyes of financial institutions. The information asymmetry between family entrepreneurs and financial institutions makes it difficult for family firms to obtain external financing.

Political connections have been found to help firms obtain preferential treatment from government-owned enterprises such as banks (Faccio et al., 2006; Li et al., 2008). The cultivation of political connections is very important for family firms in China. In the nation's relationship-based economy, building connections with the government or even engaging in politics can facilitate family firms' private communications with the state and hence mitigate the severe information asymmetry and social discrimination. Moreover, the state treats politically connected firms preferentially in their lending of money (Fan et al., 2006; Faccio, 2006; Wu & Cheng, 2011; Houston et al., 2014). Political networks can also facilitate relationship-based contracts. As a result, friction in external financing for family firms as well as the premium of external over internal capital would be reduced, making family firms' business transformations less dependent on internally generated funds. Following the above arguments, we propose the following hypotheses:

Hypothesis 1a. Family firms are more likely than are non-family firms to conduct business transformation.

Hypothesis 1b. Politically connected family firms are more likely than are politically non-connected family firms to conduct business transformation.

Most private companies in China are in competitive industries and seldom set foot in natural monopoly or administrative monopoly industries (Garnaut et al., 2012). Chinese private firms were born in the early stage of the transition from a planned economy to a market economy. Due to the lack of accumulated core resources such as capital, technology, or management, they usually pursue profit by a simple combination of production factors and a low level of technical management under a scenario of labour-intensive and price competition (Li et al., 2015; Li et al., 2015). The main characteristic of this business model is low entry barriers, which has helped many new private firms enter related industries. However, because too many companies entered the market, the competition among them was limited to competition via low prices, which led to a vicious price and promotion war (Li et al., 2015). Hence, private firms have a strong incentive to seek out new development opportunities by entering a new industry.

However, in countries with emerging market economies, and especially in China, some industries face regional regulatory, employment, and protectionist policies that block firms' business transformation (Hu and Shi, 2008). Therefore, government administrative licensing is an essential prerequisite of private firms' entry into an industry. Researchers have shown that, compared to family firms, the ownership of non-family firms is more diffuse (Jiang & Peng, 2011; Chu, 2011; San Martin-Reyna & Duran-Encalada, 2012; Li et al., 2015), and the distribution of their shareholders is wider. Accordingly, non-family firms' social capital is higher than is that in family firms. Firms' social capital refers to the resources embedded in the social networks that the enterprises and their members are involved in; this can be obtained and mobilized purposefully by an enterprise's internal and external social solidarity (Burt, 1992). The greater its corporate social capital, the more investment opportunities a firm has (Fukuyama, 1995) and the more likely it is to enter regulated industries (Zhao, 1992). Consequently, we assume that non-family firms are more likely than are family firms to enter regulated industries.

A family firm's political connections will affect its chance of obtaining permission to enter regulated industries. The wider the firm's political network, the greater the political status and social influence of its members. The stronger its centrality in its network, the stronger its political influence and the better its chance of obtaining permission to enter a regulated industry (Sun et al., 2010; Zhou, 2013). Thus, we can describe the influence of a firm's political resources on its business transformation direction this way: the greater the degree of a firm's political connectedness, the higher the possibility that the firm will enter an industry that requires permission from the government. A large number of typical cases also show that politically connected family firms are more likely than are politically non-connected ones to enter strictly regulated industries. For example, the Shenzhen Tencent Computer Systems Co., Ltd., one of China's largest Internet service providers, has a great deal of political capital relative to other family Internet companies. Its founder, Mr. Ma, was elected a representative at the Guangdong Province People's Congress and the representative at the twelfth National People's Congress in 2013. In 2014, accordingly, Tencent obtained permission to enter the financial industry, which is strictly regulated by the government, and became one of the first three privately owned banks to obtain permission from the government and the first Internet company to be awarded a banking license. As the largest Internet company and an e-commerce giant in China, Alibaba Group not only outperforms Tencent in terms of company size, operating income, and profitability but also set up Alipay Network Technology Co., Ltd., China's largest third-party payment platform and a world leader in the industry. However, Alibaba finally lost to Tencent in the banking licence competition. Some economic commentators claimed that a lack of the necessary political

background was an important cause of Alibaba's failure.¹ Thus, we propose the following hypotheses:

Hypothesis 2a. Non-family firms are more likely than are family firms to enter strictly regulated industries.

Hypothesis 2b. Family firms with political connections are more likely than are family firms without political connection to enter strictly regulated industries.

Much of the empirical research indicates that the relation between the original business and the transformed business is significantly positively correlated to the transformation performance of the enterprise (Pehrsson, 2006) because the greater the link between the original business and the transformed business, the greater is the value of the knowledge and capacity amassed in their original industry and reused in the transformed business. Thus, while it is difficult for firms without political connections to obtain permission to enter strictly regulated industries, they must risk efficiency loss when entering uncorrelated industries (Almeida & Wolfenzon, 2006). From the behavioural agency perspective, compared to other types of public company, the family looks to socio-emotional wealth and will thus be risk-averse to business opportunities since they are risking their personal wealth, reputation, and recognition (Patel & Chrisman, 2014). Maug (1998), Shleifer and Vishny (1997), and Anderson and Reeb (2003) argue that family business owners are always trying to minimize the risk to the company, so that family businesses do not focus on investments with high levels of risk. Therefore, from the perspective of risk preference, it can be reasonably assumed that family firms are more likely than are non-family firms to enter industries correlated to their original business through an extension of their industrial chain, allowing them to fully utilize the technology, experience, and know-how accumulated in their original industries.

By contrast, the establishment of political connections can allow family firms to learn the policy orientation and control rules of the government, help them obtain key business information, and provide guarantees for the amount, quality, and diversity of the information (Koka & Prescott, 2002). All of these information advantages help family firms reduce the uncertainty and risk involved in investments in weakly correlated industries. Meanwhile, as mentioned, family firms with political connections are more likely to achieve business transformation by entering government-regulated industries, which usually have a weak correlation, being uncorrelated to the enterprise's original core business. Thus, we propose the following hypotheses:

Hypothesis 3a. Non-family firms are more likely than are family firms to enter weakly correlated industries to achieve business transformation.

¹ <http://yanglinhua.baijia.baidu.com/article/24043>, http://www.guifabu.com/archives/11933?utm_source=tuicool.

Hypothesis 3b. Politically connected family firms are more likely than are politically non-connected family firms to enter weakly correlated industries to achieve business transformation.

A business transformation strategy occurs through either internal cultivation or M&A. It takes seven to eight years to realize a positive return on investment for new businesses cultivated internally, but new businesses established through M&A can earn a profit immediately (Biggadike, 1979). Furthermore, an important differentiation between family firms and non-family firms is their effectiveness in absorption. Effectiveness in absorbing new resource stocks is encouraged by both patient and survivability capital. Both of these resources allow and even encourage long-term, creative strategies (Kang, 2000). During integration, family firms are more likely to use both creativity and long-term time horizons to develop the best fit of resources than are non-family firms. Therefore, family firms are likely to absorb new resource stocks more effectively than are non-family firms due to their higher levels of patient and survivability capital (Sirmon & Hitt, 2003). Thus, M&A would be more appealing to family firms than to non-family firms. In addition, companies implementing business transformation by M&A must pay not only huge funds for the M&A in the short term but also many costs for business and culture integration in the long run. The high requirements for resource reserves in M&A often force non-family private firms to give up this transformation model. However, for family private firms, family resources can be gathered adequately based on kinship to provide various forms of support such as financial, physical, and human capital for enterprise development (Anderson & Reeb, 2003; Dyer, 2006; Li et al., 2015). Based on the abovementioned analysis, it can be reasonably assumed that family firms are more likely than are non-family firms to adopt M&A for business transformation.

We argue that M&A is even more significant for politically connected family firms than for politically non-connected family businesses due to China's strict M&A regulations. First, political connections can help family firms acquire more M&A resources. Because of China's relatively low marketization levels and imperfect system, its M&A market is several regulated; as M&A between corporations are not entirely marketization actions, local governments play a critical role in the M&A market (Liu et al., 2013; Su et al., 2013). Some local governments exert control over M&A between local firms in terms of taxes, employment, and political promotion. Given this institutional context, some enterprises wishing to conduct M&A may seek rent from government to obtain their support. Enterprises with close connections to local government will obtain more M&A opportunities and more support from the government after the M&A. Moreover, local governments are likely to lower the industry threshold, provide funds and land, lower the tax rate, or provide preferential policies, thus helping enterprises with political connections achieve their business transformation

target. Second, enterprises with political connections have a stronger motivation to conduct business transformation through M&A. As politically connected firms obtain expansion funds and resources through government more easily, they obviously have a stronger motivation to conduct large-scale M&A using the advantage that non-politically connected enterprises lack, improving their profitability. Meanwhile, the current and former government officials who established a firm's political connections have a strong motivation to use their own political resources to assist in the firm's business transformation through M&A. They will also try to benefit from the new core business as soon as possible and then construct a 'position moat' in order to strengthen their position and status. Thus, we propose the following:

Hypothesis 4a. Family firms are more likely than are non-family firms to conduct business transformation through M&A.

Hypothesis 4b. Politically connected family firms are more likely than are politically non-connected family firms to conduct business transformation through M&A.

3. Research design

3.1. Samples and data

3.1.1. Samples

Following Wang and Song (2010), we first provide a specific definition of 'enterprise transformation' according to the industry classification guidance of listed companies formulated by the China Securities Regulatory Commission (CSRC). If the four-digit industry code of the enterprise's main business has changed, we define the enterprise as a transformation enterprise; when the new main business revenue accounts for more than 30% of total revenue, we conclude that the company has completed its transformation.²

Several definitions of 'family firm' are current, suggesting the relatively undeveloped state of the research on this issue (Xu et al., 2013; Miralles-Marcelo et al., 2014). To Barontini and Caprio (2006), a firm is a family firm when the largest shareholder owns at least 10% of the ownership rights and either the family or the largest shareholder controls more than 51% of direct voting rights. For Fahlenbrach (2009), a family firm is one where the CEO is the founder or co-founder. However, Miralles-Marcelo et al. (2014) did not establish a minimum

² According to the industry classification guidelines of China's listed companies released by the CSRC, we selected the enterprises whose new main business revenue accounts for more than 30% of the total as a criterion. According to this guideline, if a business revenue accounts for more than or equal to 50% of the total, we classified this business into the corresponding industry; if no one business has revenue accounting for more than 50% of the total but one business' revenue is the highest among all the rest and accounts for more than 30% of the total, we classified this business into the corresponding industry.

threshold for family involvement in ownership, as some researchers have done. Taking into account the situation in China and following Miralles-Marcelo et al. (2014), we define a family firm as a company owned and controlled by a family. This paper uses the following standards for listed family firms. First, the ultimate controller can be traced back to a natural person or a family linked by blood and affinity. Second, the ultimate controller is the largest shareholder of the listed company directly or indirectly and has ultimate control. Following Claessens (2000), ultimate control is considered to have been obtained if 20% or more of the voting rights are held via shares of the listed company directly or indirectly or if a family member was recruited to be the chairman or general manager and holds 10% or more shares. If these two conditions are not met, the family should be the largest shareholder at a 10% cut-off level, and no second-largest shareholder should hold 10% or more of shares. Private enterprises include family firms, but not all private enterprises are family firms. Thus, companies controlled by a union or employee stock ownership plan (ESOP) association composed of natural persons and management buy-out (MBO) companies are excluded.

To test the research hypotheses empirically, we selected sample firms from companies listed on the Shanghai and Shenzhen Stock Exchange covering 2001 to 2010.³ After we removed observations with missing key explanatory variables, the final family firm sample contained 3,082 observations (including 202 transformation and 2,880 non-transformation family firms). Meanwhile, to test whether family businesses differ significantly from non-family businesses with respect to political connections and transformation strategies according to the principle that the firms are similar in size and transformation timing, we collected a non-family firm sample consisting of 3,153 observations (including 218 transformation companies and 2,935 non-transformation ones) as a matched sample.

Table 1 reports the sample distributions of years, original industries the transition enterprises exited, and new industries the transition enterprises entered. The data in part A show that business transformations are becoming more common and are increasing yearly for both family and non-family firms. The data in parts B and C indicate that most enterprises withdraw from their original industries, which range from declining industries to growing industries, and then enter high-profitability industries (such as real estate, new energy, and communication devices). This may demonstrate that, with the exception of industry recessions, the profit-seeking nature of firms may be the fundamental motive for business transformation.

3.1.2. Data

Data on the transformation mode, transformation direction, and start and end time of the transformation

³ We limit our sample to non-state controlled firms to ensure that political connections are sought by the company rather than imposed by the government, as in state-owned enterprises.

were collected by the authors from the companies' quarterly and annual reports, provided by the information disclosure website Huge Tide Network (www.cninfo.com.cn). The M&A data come from the Chinese Listing Companies M&A Database of China Security Market Accounting Research (CSMAR). Detailed background information about chairmen and CEOs is retrieved from the WIND financial database, which provides detailed biographical information on most chairmen and CEOs. Data on political connections were manually sorted according to the information provided in company announcements. Financial data and other control variables were all collected from the China stock database of the China Center for Economic Research (CCER).

Table1

Sample distribution

A: Number of the transition enterprises and the non-transformation enterprises												
	Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total
Family firms	Transition	9	11	11	16	23	24	24	26	29	29	202
	Non-transition	156	242	321	300	302	284	228	330	349	368	2880
	Total	165	253	332	316	325	308	252	356	378	397	3082
Non-family firms	Transition	11	12	10	18	24	23	27	27	34	32	218
	Non-transition	159	239	316	308	304	293	231	344	353	388	2935
	Total	170	251	326	326	328	316	258	371	387	420	3153

B: Distribution of original industries that transition enterprises exit													
	Industry	General Equipment	Textile and apparel	Wholesale and retail	Metal products	Plastic products	Agriculture and forestry	Social services	Special equipment	Chemical products	Ferrous Metals Mining	Other Industries	Total
Family firms	Number	31	24	22	21	21	19	15	15	9	8	17	202
	Proportion	15.3%	11.9%	10.9%	10.4%	10.4%	9.4%	7.4%	7.4%	4.5%	4.0%	8.4	100%
Non-family firms	Number	33	23	25	22	24	18	14	17	13	7	22	218
	Proportion	15.1	10.6	11.5	10.1	11.0	8.3	6.4	7.8	6.0	3.2	10.1	100%

C: Distribution of new industries that transition enterprises entry into														
	Industry	Computer services	Real estate	New energy	Communication device	Biotechnology	Internet industry	Chemical products	Coal industry	Electricity industry	Transportation equipment	Financial industry	Other Industries	Total
Family firms	Number	29	25	23	21	17	15	14	12	10	9	9	18	202
	Proportion	14.4%	12.4%	11.4%	10.4%	8.4%	7.4%	6.9%	5.9%	5.0%	4.5%	4.5%	8.8%	100%
Non-family firms	Number	31	26	23	22	19	14	16	13	12	11	11	8	218
	Proportion	14.2%	11.9%	10.6%	10.1%	8.7%	6.4%	7.3%	6.0%	5.5%	5.0%	3.7%	10.6%	100%

3.2. Variable definition and measurement

3.2.1. Political connection

Political connection is an informal tacit contact relationship between an enterprise and government officials or government departments, which is manifested in various ways. To measure it, Faccio (2006) examines whether the manager is a government official or member of parliament. Given China's special systemic background, Li et al. (2008) argue that the core channels by which family firms establish political relations with the government are members of the National People's Congress or the CPPCC (known as the 'member's channel'), which has an informal reporting relationship with the government, and former government officials with a recessive reporting relationship with the government. Political relationships established through a member's channel are stable, long-term, and authoritative; they can help the enterprise access key resources easily and obtain a high level of political influence. Political relationships established by other channels are often short-term, unstable, and ill-defined. It is easy for managers with a public political identity to participate in the interaction between their enterprise and government, as they belong to a more highly embedded degree of political connection. At the same time, although managers have some influence, the actual controller of the enterprise is the board chairman or general manager. In this study, a dummy variable is used as a measurement of political connection: if the chairman of the board or general manager is a representative of the National People's Congress, a CPPCC member, Chinese communist party member, or a former government official or member of the military, the assignment is 1 and 0 otherwise.

The political connection dummy variable does not reflect the strength of the manager's political connection, which weakens the effectiveness of the empirical conclusions. Therefore, we also used a continuous variable, the proportion of the directors with political connections on the board of directors, as a substitution variable for political connection (Boubakri et al., 2008; Chen et al., 2011). Using these two methods of measuring political connection refines the political connection metric to meet the requirements of the empirical test and enables the two sets of empirical results to support each other, improving the reliability and robustness of the study results.

3.2.2. Transformation strategy

Following the definition of 'business transformation' outlined above, a dummy variable (taking a value of 1) is used as a measurement of whether the family firm's main business changes (0 otherwise). Internal cultivation and M&A are the two basic business transformation methods. We used two variables, M&A amount (MA) and presence of M&A (*MA-DUM*), as substitution variables for the M&A mode and employed internal

investment (*INInvest*) as a substitution variable for internal cultivation. Accordingly, the total enterprise investment (*Invest*) is equal to the amount of internal investment and the M&A amount, and the index reflects the strength of the enterprise's transformation motive and the speed of its business transformation. In addition, to study the relationship between the two kinds of transformation mode (M&A and internal cultivation), we used a dummy variable (*MA-INInvest*) to measure whether the M&A amount is greater than the internal investment.

We assess the choice of business transformation direction in two ways (Richardson, 2006; Wang, 2012). First, we determine whether the transformation is a weak correlation (*Weak relation*). If the industry the family firm entered is upstream or downstream of the original industry or if its new products are similar, then the transformation is a strong correlation transformation and is assigned a value of 0; otherwise, the transformation is a weak correlation transformation and is assigned a value of 1.⁴ Second, we determine whether the industry the company entered is under government control (*Regulation*). If the enterprise enters into a government-regulated industry, it is assigned a value of 0; if the new industry features no administrative regulation or licensing, it is assigned a value of 1. Given China's national conditions and the findings in Hu and Shi (2008), we regard China's utility, pharmaceutical, telecommunication, financial, petroleum, and mining industries as regulated industries.

3.2.3. Control variables

Business transformation and transformation performance are affected by other factors. Following the literature (Amihud & Lev, 1999; Gordon et al., 2000; Wang, 2012; Xu et al., 2013; Xu et al., 2015; Miralles-Marcelo et al., 2014), we select three categories of control variable: corporate governance variables, financial characteristic variables, and dummy variables (i.e. year of transformation and industry classification). The literature indicates that the corporate governance variables influence family firms' expansion and investment and that enterprises that are older, larger, and with greater cash flow are more likely to conduct business transformation, and their investment scale is larger.

Table 2 provides definitions and measurement methods for the relevant variables selected in this paper.

⁴ The upstream industry refers to the industry at the beginning of the industrial chain, which provides raw materials, components manufacturing, and technology. The downstream industry is the industry at the end of the industrial chain, which processes the raw materials and components, manufactures the finished goods, or provides services. According to the industry classification guidelines for China's listed companies released by the CSRC, this paper considers the transformation as a strong correlation transformation if the first two industrial codes of the enterprise are the same before and after the transformation; otherwise, it is a weak correlation transformation.

Table 2

Summary of variables

Variable	Symbol	Definition
Transition strategy	<i>Trans-DUM</i>	A dummy variable that equals 1 if the main business changes and 0 otherwise.
	<i>MA-DUM</i>	A dummy variable that equals 1 if the enterprise adopts M&A and 0 otherwise.
	<i>MA</i>	Natural logarithm of the total cost of M&A during business transformation.
	<i>INInvest</i> ⁵	Internal investment = (payment of cash for building fixed assets and intangible assets - net cash of selling fixed assets and intangible assets - depreciation of the same year) / total assets at the end of the year * 100%.
	<i>MA-INInvest</i>	A dummy variable that equals 1 if the amount of M&A is greater than that of internal investment and 0 otherwise.
	<i>Invest</i>	The sum of internal investment and M&A during the enterprise transformation
	<i>Weak relation</i>	A dummy variable that equals 1 if it's weak correlation transformation and 0 if it's strong correlation transformation.
Political connection (PC)	<i>Regulation</i>	A dummy variable that equals 1 if the enterprise enters into the regulated industry and 0 otherwise.
	<i>PC1</i>	A dummy variable that equals 1 if the chairman of the board or general manager is a representative of the National People's Congress, a CPPCC member, a Chinese communist party member, or a former government official or a former military membership, and 0 otherwise.
	<i>PC2</i>	The proportion of the directors with political connections in the board of directors.
The family's percentage of Share ownership	<i>Ownership</i>	The percentage of the shares held by all family numbers in the capitalization.
Separation of ownership from and control	<i>Separation</i>	The difference between ownership and control.
Board independence	<i>Independence</i>	The percentage of independent directors on the board of directors.
Whether the founder stays in the family firm as CEO, chairman, or a director	<i>Founder</i>	A dummy variable that equals 1 if the founder stays in the family firm as the CEO or chairman or a director and 0 otherwise.
Board size	<i>Board</i>	Total number of board of directors members in the one year before transformation.
Enterprise size	<i>Size</i>	Napierian logarithm of total assets of the one year before transformation.
Cash flow	<i>CF</i>	Proportion of net cash flow in total assets of the one year before transformation.
Operational risk	<i>BETA</i> ⁶	Standard deviation of income for the third year before transformation.
Enterprise age	<i>Age</i>	Listed years of enterprise.
Year of transformation	<i>Year</i>	Study period is ten years, so there are nine annual dummy variables.
industry classification	<i>Industry</i>	Industry before transformation, according to industry classification codes for Chinese listed companies (12 industry dummy variables).

3.3. Model

To examine the impact of family ownership on business transformation, we establish the econometric model as follows:

$$\begin{aligned} Transformation \ strategy = & \alpha_0 + \alpha_1 Family + \alpha_2 Ownership + \alpha_3 Separation + \alpha_4 Independence + \alpha_5 Founder \\ & + \alpha_6 Board + \alpha_7 Size + \alpha_8 CF + \alpha_9 BETA + \alpha_{10} Age + \alpha_{11} Year + \alpha_{12} Industry + \varepsilon \end{aligned} \quad (1)$$

To examine the moderating effect of political connection on the relationship between family ownership and business transformation, we establish the econometric model as follows:

$$\begin{aligned} Transformation \ strategy = & \alpha_0 + \alpha_1 Family + \alpha_2 PC + \alpha_3 Family * PC + \alpha_4 Ownership + \alpha_5 Separation + \alpha_6 Independence \\ & + \alpha_7 Founder + \alpha_8 Board + \alpha_9 Size + \alpha_{10} CF + \alpha_{11} BETA + \alpha_{12} Age + \alpha_{13} Year + \alpha_{14} Industry + \varepsilon \end{aligned} \quad (2)$$

⁵ Some researchers do not deduct depreciation when calculating a firm's internal investment; we follow this approach. The regression results of the internal investment calculated using these two methods are basically the same.

⁶ $BETA = \sqrt{\left\{ \left[\frac{ROA_t - \left(\sum_{i=1}^3 ROA_t \right) / 3}{3} \right]^2 + \left[\frac{ROA_{t-1} - \left(\sum_{i=1}^3 ROA_{t-1} \right) / 3}{3} \right]^2 + \left[\frac{ROA_{t-2} - \left(\sum_{i=1}^3 ROA_{t-2} \right) / 3}{3} \right]^2 \right\} / 2}$. To reflect the fluctuation range of company revenues, we set three years as the time interval, and perform a rolling computation of the standard deviation of the revenues three years before enterprise transformation.

We use the following variables: whether the enterprise implements business transformation (*Trans-DUM*); whether it enters a government-regulated industry (*Regulation*); whether it enters a weakly related industry (*Weak relation*); whether it implements M&A (*MA-DUM*) or internal investment (*INInvest*); whether the amount of its M&A is greater than that of its internal investment (*MA-INInvest*); and its total investment (*Invest*). We use the political connection and other control variables as explanatory variables in the regression. In the same model, we use *PC1* and *PC2* as substitution variables of political connection. Thus, we have 16 regression models. When the explained variable is *Trans-DUM*, the probit estimates with endogenous explanatory variables are adopted (Greene, 2011). Given that the choices of transformation strategy are contingent on the family firm's decision to diversify, a conditional logit model is employed (McFadden, 1974) when the explained variables are *Regulation*, *Weak relation*, *MA-DUM*, *MA-INInvest*, or other variables,.

4. Empirical analysis

4.1. Descriptive statistics

Table 3 reports the variables' descriptive statistics based on the transforming enterprise sample. The sample firms are divided into two groups according to the variables *Family* and *PC1*.

According to the data in part A, when using *PC1* to measure political connection, 18.8% of the family firms have political connections; using *PC2* to measure political connection, 20.2% of the directors of family firms have political connections, suggesting that China's family listed companies are generally keen on being associated with the government. In terms of business transformation mode, 62.7% of the family companies used M&A, and 60.4% of the firms' M&A amounts are greater than are those of their internal investment. In terms of business transformation direction, 47.4% of the family firms entered an industry unrelated to their original main business, and 4.5% entered government-regulated industries. In addition, the standard deviations of the size, age, cash flow, and debt ratio variables of the sample enterprises are large, indicating significant differences in the transforming enterprises' internal characteristics. Furthermore, a comparison of family and non-family firms shows that the means of *PC1* and *PC2* in the non-family group are lower than are those in the family group; the means of *MA-DUM* and *MA-INInvest* in the family group are higher than are those in the non-family group; and the means of *Weak relation* and *Regulation* in the family group are lower than are those in those in the non-family group. According to the data in part B, 73.6% of the politically connected firms used M&A, and 61.8% of firms' M&A amounts are higher than are those of their internal investment. In terms of business transformation direction, 72.0% of politically connected firms entered weakly corrective industries, and 14.5% entered government-regulated industries. Comparing politically connected with non-connected firms, the means

of *MA-DUM*, *MA-INInvest*, *Weak relation*, and *Regulation* in the politically connected group are higher than are those in the politically non-connected group.

Table 4 reports the Pearson correlation coefficients of the main variables with the transformation family firms as samples. According to the correlation coefficients, *PC1* and *PC2* are all significantly positively correlated with *MA-DUM*, *MA*, *MA-INInvest*, *Invest*, *Regulation*, and *Weak relation*, indicating that firms with political connections are more likely to adopt M&A than internal cultivation to conduct business transformation, enter new industries unrelated to their original businesses, and enter government-regulated industries. In addition, the absolute value of the explanatory variables' correlation coefficient is less than 0.3. Following the view in Lind (2006) that the collinear problem does not exist unless the threshold value is over 0.3, we believe that, despite a certain degree of correlation between explanatory variables, the collinearity problem does not exist.

Table 3

Descriptive statistics of the main variables.

	A: Grouping based on variable <i>Family</i>						B: Grouping based on variable <i>PCI</i>					
	Family firms (sample size=202)			Non-family firms (sample size=218)			Politically connected firms (sample size=71)			Political non-connected firms (sample size=349)		
	Mean	Median	Std. Deviation	Mean	Median	Std. Deviation	Mean	Median	Std. Deviation	Mean	Median	Std. Deviation
<i>MA-DUM</i>	0.627	1.000	0.316	0.549	1.000	0.357	0.736	1.000	0.138	0.523	1.000	0.386
<i>MA</i>	3.404	3.592	2.005	3.512	3.608	2.310	3.596	3.588	2.607	3.318	3.211	2.375
<i>INInvest</i>	3.522	2.983	1.378	3.478	2.892	1.265	3.551	3.430	2.010	3.314	3.298	2.127
<i>MA-INInvest</i>	0.604	1.000	0.215	0.511	1.000	0.282	0.618	1.000	0.199	0.502	1.000	0.412
<i>Invest</i>	3.538	3.224	2.134	3.593	3.298	2.706	4.579	4.216	2.003	3.334	3.180	2.169
<i>Weak relation</i>	0.474	0.000	0.295	0.607	1.000	0.387	0.720	0.000	0.214	0.517	0.000	0.633
<i>Regulation</i>	0.045	0.000	0.098	0.068	0.000	0.129	0.145	0.000	0.158	0.021	0.000	0.069
<i>PCI</i>	0.188	0.000	0.216	0.146	0.000	0.183	1.000	1.000	0.000	0.000	0.000	0.000
<i>PC2</i>	0.202	0.176	0.157	0.182	0.155	0.149	0.286	0.267	0.395	0.000	0.000	0.000
<i>Separation</i>	4.456	3.232	8.052	8.304	7.516	11.417	4.037	3.581	2.178	7.105	6.660	9.258
<i>Independence</i>	0.329	0.310	0.065	0.385	0.362	0.159	0.373	0.346	0.170	0.335	0.312	0.156
<i>Board</i>	5.813	6.000	1.702	6.136	7.000	1.920	6.302	7.000	3.658	5.892	6.000	2.999
<i>Size</i>	20.691	19.621	1.255	23.990	22.273	1.534	24.127	23.652	2.850	21.803	22.019	2.194
<i>CF</i>	0.129	0.138	0.210	0.134	0.137	0.167	0.141	0.137	0.198	0.127	0.124	0.150
<i>BETA</i>	1.122	1.085	0.263	1.189	1.152	0.295	0.897	0.986	0.536	1.196	1.183	1.065
<i>Age</i>	9.3571	8.000	4.520	13.529	11.000	4.312	12.715	12.000	3.658	9.579	9.000	5.660

Table 4

The Pearson correlation coefficients of the variables.

	<i>MA-DUM</i>	<i>MA</i>	<i>INInvest</i>	<i>MA-INInvest</i>	<i>Invest</i>	<i>Weak relation</i>	<i>Regulation</i>	<i>family</i>	<i>PC1</i>	<i>PC2</i>	<i>Separation</i>	<i>Independence</i>	<i>Board</i>	<i>Size</i>	<i>CF</i>	<i>BETA</i>
<i>MA</i>	0.343**															
<i>INInvest</i>	-0.276**	-0.280**														
<i>MA-INInvest</i>	0.443***	0.403***	-0.258**													
<i>Invest</i>	0.207***	0.415***	0.360**	0.104*												
<i>Weak relation</i>	0.112*	0.059*	-0.077*	0.154**	0.011											
<i>Regulation</i>	0.106*	0.071	0.090	0.121*	0.018	0.203**										
<i>Family</i>	0.317**	-0.106	0.109	0.289*	-0.102	-0.378**	-0.365*									
<i>PC1</i>	0.188***	0.420***	0.041	0.137**	0.217**	0.249**	0.298***	0.137*								
<i>PC2</i>	0.205***	0.429***	0.043	0.044**	0.235**	0.223**	0.281***	0.129*	0.406***							
<i>Separation</i>	0.033	0.020*	0.029*	0.136	0.021**	0.015*	0.017	-0.208*	-0.056	-0.029						
<i>Independence</i>	-0.062*	-0.025	0.064**	-0.291*	-0.145**	-0.193**	0.086	-0.011	0.017	0.053*	0.182**					
<i>Board</i>	-0.045	-0.031	0.057*	-0.144	0.009	-0.022**	0.121*	-0.009	0.066	-0.170**	0.197*	-0.138**				
<i>Size</i>	0.128*	0.166*	0.127*	0.174*	0.251***	0.076*	0.029**	-0.011	0.240**	0.123*	0.118	0.087*	0.135*			
<i>CF</i>	0.223**	0.268***	0.177*	0.212**	0.277***	0.259**	0.013	-0.102	0.163*	0.130	0.032*	0.079	0.029	-0.026**		
<i>BETA</i>	0.189**	0.131*	-0.109*	0.187*	0.194**	0.338**	-0.008	-0.145*	-0.170*	-0.203*	-0.057	-0.105	-0.080	-0.116*	-0.238**	
<i>Age</i>	0.107*	0.072*	0.110	0.051*	0.079*	0.018	0.111*	-0.118	0.183*	0.125	0.161	0.020	0.137*	0.290**	0.123*	-0.077

Notes: Statistically significant at: *10, **5 and ***1 percent levels.

4.2. Subgroup test

Table 5 reports the subgroup test results for the decisions for family firm business transformations based on political connections. Part A uses *PCI* to measure political connection, expressed by 1. A *t*-test and a *Wilcoxon* test were used to examine whether significant differences exist between the two groups of enterprises in terms of M&A, internal investment, total investment, and business transformation direction. The data show that, for M&A and total investment, the mean and median of the political connection samples are higher than are those of the non-political connection samples, and two kinds of inspection are significant. In terms of internal investment, the mean and median of the political connection samples are higher than are those of the non-political connection samples, but two kinds of inspection are non-significant. The preliminary result shows that family firms with political connections tend to engage in M&A for business transformation and that their total investment scale for business transformation is significantly higher than is that of the other family firms. In terms of enterprise transformation direction, 33.8% of the politically connected samples entered into a government-regulated industry, a proportion significantly higher than for those without political connections. In part B, we first divide the second political association variables (*PC2*) into two groups according to their median: a variable greater than the median is assigned 1 and 0 otherwise. The *t*-test and *Wilcoxon* test are then used for the subgroup test. The results are basically consistent with part A, suggesting that the conclusion outlined above is sound.

Table 5

Subgroup test for business transformation decision making of family firms.

A: Political associated variable PC1(enterprises with political connections=38; enterprises without political connections=164)										
<i>PCI</i>	<i>MA</i>		<i>INInvest</i>		<i>Invest</i>		<i>Weak relation</i>		<i>Regulation</i>	
	Mean	Median	Mean	Median	Mean	Median	Mean	Median	Mean	Median
1	4.529	4.296	3.531	3.130	4.627	4.153	0.715	1.000	0.144	1.000
0	3.143	2.651	3.520	3.112	3.285	3.134	0.419	0.000	0.022	0.000
<i>t</i>	3.129**		0.982		2.793**		3.472***		3.976***	
<i>Wilcoxon Z</i>	4.073***		0.762		2.582**		3.469***		2.860**	
B: Political associated variable PC2 (enterprises with political connections=36; enterprises without political connections=166)										
<i>PC2</i>	<i>MA</i>		<i>INInvest</i>		<i>Invest</i>		<i>Weak relation</i>		<i>Regulation</i>	
	Mean	Median	Mean	Median	Mean	Median	Mean	Median	Mean	Median
1	4.352	4.090	3.585	3.115	4.558	4.236	0.729	1.000	0.146	1.000
0	3.223	3.056	3.218	2.973	3.314	3.121	0.455	0.000	0.018	0.000
<i>t</i>	2.973**		0.801		2.250**		3.308**		3.372***	
<i>Wilcoxon Z</i>	2.251**		0.915		2.774**		2.994**		3.338***	

Notes: Statistically significant at: *10, **5 and ***1 percent levels.

4.3. Regression results

Before the regression analysis, the Variance Inflation Factor (VIF) test was carried out to test the multicollinearity of every linear regression model; the results show that all the VIFs are less than 2, indicating that there is no collinearity among the independent variables. Then, a Hausman test was applied to check the

regression models; the result shows that our panel data reject the hypothesis that the random effect model is better. Thus, the fixed effect model was adopted. The regression results are shown in Tables 6 and 7.

Table 6

Regression results of selection and direction of business transformation on ownership and political connections.

	<i>Trans-DUM</i>		<i>Regulation</i>		<i>Weak relation</i>	
	<i>PCI</i>	<i>PC2</i>	<i>PCI</i>	<i>PC2</i>	<i>PCI</i>	<i>PC2</i>
Constant	-1.534*** (-3.438)	-2.356*** (-3.234)	-2.417*** (-3.269)	-2.351*** (-3.683)	-1.337*** (-3.271)	-2.849*** (-3.589)
<i>Family</i>	0.015** (2.473)	0.009* (1.832)	-0.008* (-1.675)	-0.013* (-1.669)	-0.010* (-1.801)	-0.018* (-1.793)
<i>PC</i>	0.111*** (3.165)	0.205*** (3.264)	0.106*** (4.012)	0.189*** (4.158)	0.013** (2.566)	0.052*** (3.373)
<i>Family*PC</i>	0.128** (2.611)	0.134** (2.509)	0.015*** (3.5257)	0.028** (2.220)	0.041** (2.453)	0.020** (2.409)
<i>Ownership</i>	0.082* (1.702)	0.058* (1.690)	-0.007 (-1.255)	-0.068* (-1.703)	-0.097 (-1.413)	-0.137* (-1.728)
<i>Separation</i>	0.003 (0.086)	0.001* (1.665)	0.004 (0.556)	0.005 (1.023)	0.008* (1.810)	0.010* (1.745)
<i>Independence</i>	-0.017* (-1.750)	0.082* (1.688)	0.232 (0.887)	0.185 (0.932)	-0.019 (-1.140)	-0.025* (-1.796)
<i>Founder</i>	0.125* (1.877)	0.143** (2.300)	0.092 (0.237)	0.114 (0.561)	0.007** (2.408)	0.106** (2.125)
<i>Board</i>	-0.007 (-0.747)	-0.003 (-0.562)	0.011* (1.999)	0.012* (1.853)	0.025 (1.326)	0.014 (0.709)
<i>Size</i>	0.010** (2.440)	0.009** (2.198)	0.044** (2.335)	0.037** (2.654)	0.011** (2.459)	0.009** (2.634)
<i>CF</i>	0.098** (2.189)	0.145** (2.351)	0.098 (1.005)	0.180 (0.583)	0.128** (2.807)	0.136** (2.467)
<i>BETA</i>	1.001** (2.672)	0.996** (2.515)	-0.012 (-1.033)	-0.009 (-0.249)	0.564** (2.241)	0.318** (2.326)
<i>Age</i>	0.003** (2.159)	0.008** (2.075)	0.006* (1.725)	0.007* (1.741)	0.021** (2.830)	0.026** (2.728)
<i>Year</i>	Yes	Yes	Yes	Yes	Yes	Yes
<i>Industry</i>	Yes	Yes	Yes	Yes	Yes	Yes
Log-likelihood	-830.18	-815.66	-839.58	-845.82	-828.04	-822.37
Observations	6235	6235	420	420	420	420

Notes: Statistically significant at: *10, **5 and ***1 percent levels; the t-statistics are in parentheses.

Table 7

Regression results of mode of business transformation on ownership and political connections.

	<i>MA-DUM</i>		<i>MA</i>		<i>INInvest</i>		<i>MA-INInvest</i>		<i>Invest</i>	
	<i>PCI</i>	<i>PC2</i>	<i>PCI</i>	<i>PC2</i>	<i>PCI</i>	<i>PC2</i>	<i>PCI</i>	<i>PC2</i>	<i>PCI</i>	<i>PC2</i>
Constant	-1.126*** (-3.892)	-1.374*** (-3.165)	4.098*** (3.872)	3.282*** (4.250)	2.165*** (3.570)	1.989*** (3.203)	2.661*** (4.396)	2.822*** (3.103)	4.129*** (4.499)	4.635*** (4.012)
<i>Family</i>	0.173* (1.702)	0.112* (1.689)	-0.105 (-1.278)	-0.008 (-1.185)	0.235 (1.364)	0.337 (1.010)	0.095* (1.723)	0.121* (1.899)	-0.003 (-1.156)	-0.008 (-1.071)
<i>PC</i>	0.213*** (4.122)	0.177*** (3.162)	0.220*** (3.203)	0.414*** (3.986)	0.209 (1.110)	0.387 (0.355)	0.143*** (4.168)	0.520*** (3.873)	0.696** (2.146)	0.459** (2.457)
<i>Family*PC</i>	0.204* (1.774)	0.185** (2.118)	0.123** (2.317)	0.016** (2.444)	0.005 (1.083)	0.012 (0.657)	0.121** (2.630)	0.140** (2.660)	0.004* (1.801)	0.011* (1.752)
<i>Ownership</i>	1.096* (1.800)	1.182* (1.996)	-0.876* (-1.721)	-0.420* (-1.751)	0.651 (0.840)	0.249 (0.564)	1.001** (2.631)	0.819** (2.691)	-0.004* (-1.793)	-0.010* (-1.715)
<i>Separation</i>	0.001 (0.334)	0.002 (0.780)	0.002* (1.715)	0.004* (1.808)	0.010* (1.699)	0.008* (1.723)	0.010 (0.436)	0.006 (0.880)	0.001** (2.360)	0.002** (2.532)
<i>Independence</i>	-0.172* (-1.746)	-0.121* (-1.810)	-0.033 (-1.350)	-0.047 (-0.776)	0.119* (1.903)	0.088* (1.895)	-0.041* (-1.803)	-0.022* (-1.766)	-0.004* (-1.878)	-0.008* (-1.765)
<i>Founder</i>	0.110* (1.705)	0.057* (1.817)	0.019* (1.758)	0.015* (1.822)	0.006 (0.122)	0.014 (0.578)	0.116** (2.659)	0.205** (2.632)	0.011** (2.310)	0.018** (2.500)
<i>Board</i>	-0.012 (-1.320)	-0.017 (-0.845)	-0.005* (-1.799)	-0.008 (-1.310)	0.001* (1.802)	-0.003 (-1.001)	-0.009* (-1.710)	-0.004 (-0.987)	0.002 (0.801)	0.003 (0.698)

<i>Size</i>	0.009*	0.005*	0.022**	0.038**	0.004**	0.007**	0.002*	0.002*	0.099**	0.062**
	(1.778)	(1.802)	(2.337)	(2.019)	(2.416)	(2.765)	(1.702)	(1.860)	(2.333)	(2.915)
<i>CF</i>	0.221	0.358	0.114*	0.073	0.099*	0.198	0.003	0.002	0.153**	0.207*
	(0.551)	(0.838)	(1.901)	(0.734)	(1.710)	(1.082)	(0.732)	(1.355)	(2.875)	(1.890)
<i>BETA</i>	0.315*	1.076*	0.108*	0.083*	0.010	0.014	0.103*	0.211*	0.696**	0.887**
	(1.766)	(1.930)	(1.822)	(1.698)	(0.901)	(0.625)	(1.916)	(1.942)	(2.380)	(2.813)
<i>Age</i>	0.087*	0.065*	0.035**	0.027*	0.010**	0.009**	0.008	0.006	0.012**	0.027**
	(1.771)	(1.759)	(2.556)	(1.835)	(2.769)	(2.180)	(0.552)	(1.410)	(2.538)	(2.191)
<i>Year</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<i>Industry</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Log-likelihood	-536.85	-529.66	-529.93	-525.12	-524.46	-515.37	-547.65	-522.85	-537.08	-530.28
Observations	420	420	420	420	420	420	420	420	420	420

Notes: Statistically significant at: *10, **5 and ***1 percent levels; the t-statistics are in parentheses.

Table 6 reports the regression results for ownership, political connections, and choice of business transformation direction. The results show that, when the model uses *Trans-DUM* as the dependent variable, the regression coefficient of *Family* is significantly positive at the 10% level. This means that, for enterprises without political connections, family firms are more likely than are non-family ones to transform their core business, which supports Hypothesis 1a. Additionally, according to the regression coefficient of *Ownership*, which is significantly positive at the 10% level, the greater the family's share ownership, the more likely the firm is to transform its core business. The regression coefficients of *PC* (including *PCI* and *PC2*) and *Family*PC* are significantly positive at the 1% or 5% level, indicating that political connections make family firms more likely to conduct business transformation, supporting Hypothesis 1b.

The results in Table 6 also show that, whether the dependent variable is *Regulation* or *Weak relation*, the regression coefficient of *Family* is significantly negative at the 10% level. This indicates that, among politically non-connected companies, family firms are more likely than are non-family firms to enter strong related industries, while non-family firms are more likely than are family firms to enter regulated industries. Hence, Hypotheses 2a and 3a are fully supported. Furthermore, the regression coefficient of *Family*PC* is significantly positive at the 5% or 10% level, and its sum with that of *Family* is also positive, indicating that, compared with the politically non-connected family firms, politically connected family firms are more likely to enter government-regulated industries and weakly correlated industries. Thus, political connections increase family firms' chances of entering government-regulated industries. These results are consistent with the results of the previous subgroup test, which support Hypotheses 2b and 3b.

Table 7 reports the regression results for ownership, political connections, and choice of business transformation mode. When the model uses *MA-DUM* or *MA-INInvest* as the dependent variable, the regression coefficient of *Family* is significantly positive at the 10% level; when the model uses *MA* or *Invest* as the dependent variable, the regression coefficient of *Family* is negative but not statistically significant. These results indicate that, for companies without political connections, family firms are more likely than are non-family ones

to employ M&A to implement business transformation. Therefore, Hypothesis 4a is supported.

As Table 7 also shows, whether the dependent variable is *MA-DUM*, *MA*, *MA-INInves*, or *Invest*, the regression coefficient of *Family*PC* is significantly positive at the 10% or 5% level, and its sum with that of *Family* is also significantly positive. These results demonstrate that, compared with politically non-connected family firms or politically connected non-family ones, politically connected family firms are more likely to adopt M&A rather than internal cultivation to implement core business transformation; thus, hypothesis 4b is fully supported.

Prior studies' explanations of the factors in enterprise transformation strategy are drawn mainly from company and environmental characteristics: performance and industrial decline are viewed as the fundamental factors driving enterprise transformation. However, these studies ignore the influence of managers, especially top managers, on enterprise behaviour. The literature is unable to convincingly explain several real-world phenomena, such as why many companies with good performance and growth are also in favour of business transformation and why many enterprises with the same operating conditions and industry backgrounds exhibit significant differences in their transformation strategies. This paper's research results show that ownership is also an important factor in firms' business transformation and that political connections have a significant moderating effect on the relationship between family ownership and strategy choice for business transformation. This not only provides a reasonable explanation for the above problems but also helps us understand the growth strategies of family firms in transition economies.

4.4. Robustness test

4.4.1. Endogeneity test

Family firms' political resources and corporate business transformation may have mutual impacts on each other. On the one hand, the political connections of family firms affect the firms' business transformation decisions; on the other hand, for the transforming family firm, the greater the investment, the greater the contribution to local GDP growth, employment, and tax revenue and the more political resources they have. The endogeneity may lead to a biased conclusion; so, the Heckman correction model with instrumental variable is used to correct this selection bias. Using a Heckman first-stage model, we conducted a probit regression analysis and calculated the Inverse Mills Ratio (*IMR*) by taking all firms, including transformation and non-transformation firms, as the sample, and the variable reflecting whether the enterprise conducted a transformation as the dependent variable. In the Heckman second-stage model, the regression analysis was performed by taking the transformation firms as the sample and the transformation direction and transformation model as the dependent variables. The precondition for conducting a Heckman selection model is finding one or

more variables that can affect whether the explained variables can be found but have no effect on the observed explained variables. Therefore, according to Chen et al. (2010), we select the proportion of the politically connected firms among regions and industries in China (*VPore1*) and consider whether the entrepreneurs are non-party personage, intellectual, female, or minority (*VPore2*) as explanatory variables. Then, using the two explanatory variables, we establish a probit model of political connection (*PC*), and place *PC* as an instrumental variable into the Heckman first-stage model. The selection model is as follows:

$$PC = \alpha_0 + \alpha_1 VPore1 + \alpha_2 VPore2 + \varepsilon \quad (3)$$

The regression result of the probit model is:

$$PC = -0.087 + 1.11VPore1 - 0.113VPore2$$

(4.207) (3.212) (2.365)

Using the regression equation above, we figured out *PC*. Then, we placed *PC* as an instrumental variable into the Heckman first-stage model and calculated the Inverse Mills Ratio (*IMR*). Based on this, we plugged *IMR* into the Heckman second-stage model to process a regression analysis. The regression results are shown in Table 8. The data shown in brackets are the corresponding Z-value, and Wald chi²=196.50, Pseudo R²=0.097. According to the above model, we determine the inverse Mills ratio (*IMR*), and then place the *IMR* into econometric models 1 and 2. The regression results are reported in Table 8. The results show that the conclusions are consistent with Tables 6 and 7. The research conclusions are thus still robust even after considering the problem of endogeneity.⁷

Table 8

Endogeneity test result.

	Transformation direction		Transformation mode				
	<i>Regulation</i>	<i>Weak relation</i>	<i>MA-DUM</i>	<i>MA</i>	<i>INInvest</i>	<i>MA-INInvest</i>	<i>Invest</i>
Constant	-2.692*** (-3.852)	-3.134*** (-4.318)	-2.269*** (-3.796)	4.156*** (3.427)	3.582*** (3.083)	2.275*** (3.254)	5.004*** (3.916)
<i>PC1</i>	0.137*** (3.376)	0.012*** (3.330)	0.085*** (3.469)	0.316*** (3.221)	0.273 (1.144)	0.182*** (4.150)	0.503** (2.203)
<i>Family</i>	-0.002* (-1.810)	-0.013* (-1.698)	0.181* (1.867)	-0.071 (-1.130)	0.126 (1.114)	0.087** (2.531)	-0.011 (-0.765)
<i>Family*PC1</i>	0.009* (1.803)	0.083** (2.206)	0.195* (1.836)	0.086** (2.431)	0.019 (1.332)	0.096** (2.699)	0.016* (1.921)
<i>Ownership</i>	-0.010 (-1.002)	-0.042 (-1.113)	1.212* (1.834)	-0.354* (-1.709)	0.219 (1.156)	0.120** (2.812)	-0.008* (-1.967)
<i>Separation</i>	0.002 (0.489)	0.016* (1.880)	0.005 (0.990)	0.013* (1.807)	0.327* (1.889)	1.032 (1.252)	0.003** (2.472)
<i>Independence</i>	0.195 (0.773)	-0.113 (-1.435)	-0.118* (-1.867)	-0.028 (-1.105)	0.237* (1.885)	0.004 (0.801)	-0.009* (-1.756)
<i>Founder</i>	0.065 (1.358)	0.016* (1.863)	0.136* (1.933)	0.007* (1.934)	0.013 (0.990)	0.019* (1.911)	0.013** (2.520)
<i>Board</i>	0.003* (1.732)	0.011 (1.403)	-0.131 (-1.108)	-0.012* (-1.897)	0.006* (1.753)	-0.012* (-1.863)	0.005 (0.320)

⁷ We choose the *PC2* as the explanatory variable and carry out an empirical analysis. The result shows that, considering endogenous and the sample selection bias, the conclusion is still robust.

<i>Size</i>	0.001** (2.685)	0.008** (2.210)	0.003* (1.839)	0.009** (2.664)	0.011** (2.856)	0.007* (1.821)	0.035** (2.853)
<i>CF</i>	0.021 (0.733)	0.098** (2.377)	0.427 (0.968)	0.138* (1.870)	0.034* (1.991)	0.012 (1.206)	0.098** (2.235)
<i>BETA</i>	-0.038 (-1.296)	0.395** (2.741)	0.296* (1.930)	0.311* (1.777)	0.043 (1.335)	0.088* (1.772)	0.464** (2.968)
<i>Age</i>	0.002* (1.808)	0.004** (2.599)	0.072* (1.666)	0.020** (2.996)	0.008** (2.319)	0.002 (1.379)	0.005*** (3.037)
<i>IMR</i>	-0.006 (-0.783)	-0.007 (-0.691)	-0.004 (-0.942)	-0.005 (-1.205)	-0.004 (-0.991)	-0.005 (-1.010)	-0.003 (-0.436)
<i>Year</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<i>Industry</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adj-R2	0.132	0.108	0.118	0.104	0.105	0.098	0.092
Observations	420	420	420	420	420	420	420

Notes: Statistically significant at: *10, * *5 and * * *1 percent levels; the t-statistics are in parentheses.

4.4.2. Alternative definition of ‘business transformation’

In its sampling, this paper uses the proportion of enterprise operation revenue out of total income to judge whether the enterprise has completed transformation. Some studies use the proportion of the new business’ employees out of the total number of staff as a criterion; when this proportion is more than 40%, we conclude that the company has completed its transformation (Wang, 2012). We build our transforming companies sample according to this definition and obtain 208 family firms that had completed their business transformation as a final sample, including 191 enterprises from the original sample. We further collected 223 transformation non-family businesses as a matched sample. We substitute the new enterprise sample data into the econometric model to run a regression analysis. The result shows that, though the significance level is slightly changed, the main conclusions are still consistent with the results shown in Tables 6 and 7.

5. Conclusions, implications, and future research

5.1. Conclusions

This paper examines whether the nature of ownership affects corporate business transformation and how political connection affects the relationship between family ownership nature and business transformation. The results demonstrate the following.

First, there are significant differences between family and non-family firms in likelihood and mode choice of business transformation: family firms are more likely than are non-family firms to transform their core business, and family firms with political connection are more likely to enter strongly correlated industries and non-regulated industries, as well as to use M&A to implement business transformation.

Second, political connection has an important moderating effect on the relationship between family ownership and business transformation: compared with politically non-connected family firms, family firms with political connections are more likely to conduct business transformation and adopt M&A rather than internal cultivation to realize transformation; furthermore, political connections make family firms more likely

to enter new industries weakly related to their original core businesses and to increase their chances of entering government-regulated industries.

Our results not only provide new perspectives on the determinants of the direction and mode of corporate business transformation but also reveal the impact of political connections on the business transformation strategies of family firms. Research on ways to improve family firms' business transformation decisions should thus take the institutional environment, and especially the political connection, into consideration.

5.2. Implications

Several managerial implications follow from these findings.

Our results indicate that the willingness of family firms to transform their core business is much greater than that of non-family firms, especially when they have political connections. In theory, business transformation should be a kind of self-adaptation behaviour conducted when firms face huge environmental changes and aim to realize sustainable growth. Some forced, blind, or even frequent business transformations are the expression of a lack of a long-term strategic perspective. Family firms should fully recognize the complexity of business transformation and avoid blind business transformations by improving internal corporate governance mechanisms. In addition, due to the quick returns, family firms are likely to use M&A rather than internal cultivation to conduct business transformation, especially when they have political connections. Inadequate internal investment may have negative impacts on its international competitive capacity, which is not beneficial for family firms' long-run development. Thus, family firms should consider the relationship between internal cultivation and M&A during business transformation.

Second, our conclusions show that family firms' political connections eliminate imperfect market mechanisms' negative effects on firm development and conduce to increased investment opportunities, especially in regulated industries. The government should promote political and economic institutional reform and perfect China's market system. Doing so will guarantee that enterprises' instincts will be carried out on a transparent, fair, and open platform, which will reduce family firms' business transformation costs. Further, given the current global economic downturn, only if family firms transform and upgrade (aside from the constant expansion of their scale) will the Chinese economy develop in a sustainable and healthy way. The production and operations of China's family firms are currently located at the low end of the value chain. As China's demographic dividend is tapering off and as the RMB has continued to appreciate, family firms are encountering severe challenges to their extensive mode of production and management. Permitting private capital into some regulated industries, such as infrastructure construction, telecom, or financial sector, may not only promote family firms' business transformation and upgrading but also improve production efficiency in

those industries.

5.3. Limitations and future research

As with any empirical research, this study has limitations. First, our sample comes from Chinese family corporations; small and non-listed family companies, the major component of China's market, were not taken into consideration. Thus, future research should study how political connections impact the transformation of small and medium-sized family firms and its economic consequences. Second, we use second-hand data instead of primary data to verify our conclusions, which may lead to some subjectivity concerning variable values. For example, we measure family corporations' political connections based on whether the firms' senior executive is a deputy in the NPC, member of the CPPC, a party representative, or a former public official. However, this approach covers only those cases in which the family firm has contacted the government or an official implicitly or informally, thus revealing only the tip of the iceberg of political connectedness.⁸ Future research should describe political connections in a more detailed and realistic way in order to reveal their dynamic features and their influence on family firms. Finally, a corporation's business transformation includes two aspects—entering a new industry and exiting the primary core business. This study examined political connections' influence on firms' choice of entry mode; their influence on the way firms quit their primary core business needs further investigation.

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⁸ Some researchers (Kang, 2002, Kang, 2003; Ip, 2008) consider that most Asian countries, including China, are significantly characterised by crony capitalism, in which power colludes with capital to occupy and monopolize social wealth, preventing less powerful players from acquiring wealth through their diligence and wisdom. The enterprise business transformation case study also finds that relatives and close friends of many government officials occupy senior positions in private firm management, indicating that those corporations have strong political connections. Due to the low visibility of those connections and the non-listed property of the enterprises, it is too difficult to collect the relevant data. Those kinds of corporations will be investigated in future studies.

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