

1
3 A MICRO–MACRO LINK DURING
5 INSTITUTIONAL TRANSITIONS
7

9 Mike W. Peng and Martina J. Quan
11

13 **ABSTRACT**

15 *One of the leading themes emerging out of recent management and*
17 *organization research on China is the work on the micro–macro link –*
19 *specifically, the connection between micro, interpersonal connections, ties,*
21 *and networks on the one hand, and macro, interorganizational relation-*
23 *ships, firm strategies, and performance on the other hand. This chapter*
25 *provides an overview of the literature on the micro–macro link during*
27 *China’s institutional transitions. Based on a systematic search of the*
29 *literature, we review 22 papers in nine leading journals that have empirically*
31 *investigated the micro–macro link, with a focus on the antecedents,*
contingencies, and outcomes of managerial ties and interlocking directo-
rates. We also propose how the network structure of managerial ties will
evolve from cohesion to structural holes in different phases of China’s
institutional transitions. We conclude with a brief overview of the influence
of China studies on research in other contexts and with a call for future
research deepening our understanding of the crucial micro–macro link
during institutional transitions.

33 Management and organization research on Asia is a relatively recent
phenomenon (Bruton & Lau, 2008; Peng, 2007).¹ Research on management

35 _____
37 **Work and Organizations in China after Thirty Years of Transition**
Research in the Sociology of Work, Volume 19, 203–224
39 **Copyright © 2009 by Emerald Group Publishing Limited**
All rights of reproduction in any form reserved
ISSN: 0277-2833/doi:10.1108/S0277-2833(2009)0000019010

1 and organization in China² is more recent. Yet, research on China has taken
 2 off since the late 1990s (Peng, Au et al., 2001; Peng, Lu et al., 2001; Quer,
 3 Claver, & Rienda, 2007). One of the leading themes emerging out of this
 4 research is what Peng and Luo (2000) label the “micro–macro link” –
 5 specifically, the connection between micro, interpersonal connections, ties,
 6 and networks on the one hand, and macro, interorganizational relation-
 7 ships, strategies, and performance on the other hand.

8 While research on the elusive Chinese *guanxi* had always existed before
 9 (Yang, 1994), such research was largely relegated to the domain of area
 10 studies, published in China-specific journals such as *China Quarterly*
 11 (Guthrie, 1998; Walder, 1989), and set apart from mainstream, discipline-
 12 based research. While acknowledging that such earlier scholarship is “superb
 13 and worthy of respect on its own terms,” Walder (2002, p. 4) criticizes such
 14 research of being “nondisciplinary.” It is the more theoretically oriented and
 15 empirically rigorous new research, rallied around the micro–macro link,
 16 that has propelled a new generation of China research into core disciplinary
 17 journals in management (such as the *Academy of Management Journal (AMJ)*;
 18 Peng & Luo, 2000) and *Academy of Management Review (AMR)* (Peng &
 19 Heath, 1996) and sociology (such as the *American Journal of Sociology (AJS)*;
 20 Keister, 1998) and *American Sociological Review (ASR)* (Keister, 2001; Nee,
 21 1989; Walder, 2003)). Such research has not only placed China on the center
 22 stage of social science inquiry (Walder, 2002), but also directly contributed
 23 to theory building in these disciplines (Li & Peng, 2008; Peng, 2003; Peng &
 24 Heath, 1996; Peng, Wang, & Jiang, 2008).

25 As a literature rapidly develops and accumulates, it is helpful to take
 26 stock of our accomplishments, discuss limitations, and point out future
 27 directions. Therefore, in this chapter, we focus on a key question: How has
 28 the management and organization literature on the micro–macro link in
 29 China during its institutional transitions evolved?

31

32 **LINKING THE MICRO AND THE MACRO IN** 33 **INSTITUTIONAL TRANSITIONS**

35

36 A widely used, non-technical definition of institutions is that they are “rules
 37 of the game” (North, 1990). Consequently, institutional transitions are
 38 “fundamental and comprehensive changes introduced to the formal and
 39 informal rules of the game that affect organizations as players” (Peng, 2003,
 p. 275). The scale and scope of China’s institutional transitions are the

1 subject of thousands of articles³ and hundreds of books, and are clearly
beyond the scope of this chapter. The more focused literature that we work
3 with here deals with a crucial question: “How do firms play the new game
when the new rules are not completely known?” (Peng, 2003, p. 283).

5 The answer typically boils down to various forms of informal relationships
centered on interpersonal connections, ties, and relationships that
7 managers cultivate. Given that formal market-supporting laws, rules, and
regulations are underdeveloped but firms need to grow during the “sink-or-
9 swim” reform era, firms are often forced to rely on such informal micro ties
to cultivate interorganizational relationships through alliances and networks
11 in order to attain better firm performance (Peng & Heath, 1996).

According to social network theory, managers with better interpersonal
13 connections tend to earn more income, get more frequent promotions,
and have better careers – in short, there is a clear *micro–micro* link between
15 ties and rewards. This micro–micro link has been widely documented in
China (Li & Walder, 2001) and elsewhere (Burt, 1997; Granovetter, 1985;
17 Walder & Nguyen, 2008).

What is interesting, but also challenging, is the identification and
19 documentation of the micro–macro link, connecting micro, personal-level
relationships with macro, organizational-level actions (such as firm strategy)
21 and outcomes (such as firm performance). Scholars interested in such a
micro–macro link have paid a great deal of attention to the effects of inter-
23 locking directorates in Western corporations. Despite decades of research,
evidence on a micro–macro link between board interlocks and firm
25 performance has remained largely inconclusive (Mizruchi, 1996). Frustrated
scholars note, “Perhaps alternative types of interorganizational relations ...
27 have a more consistent impact on [firm] performance, but this has yet to be
demonstrated empirically” (Mizruchi & Galaskiewicz, 1994, p. 241).

29 It is China research that has pushed the research agenda on the micro–
macro link further. Keister (1998, p. 428) first reports that “in Chinese
31 business groups, interlocking directorates have a positive effect on firm
performance and productivity.” While Keister’s (1998) work is a break-
33 through, board interlocks represent one special type of networks, which
represent formal interorganizational relationships (Ren, Au, & Birtch,
35 2009). Since the number of outside directors on any given company’s board
is limited (Peng, 2004), there are numerous other interpersonal network ties
37 not captured by data on board interlocks. Focusing on managerial ties
(but not board interlocks), Peng and Luo (2000) use survey data to demon-
39 strate, for the first time, that micro interpersonal ties directly impact macro
organizational performance. Peng and Luo (2000) not only empirically

1 establish the “micro–macro link,” but also coin this term.⁴ Since then, a
2 large number of studies have followed up, leading to a proliferation of work
3 centered on the micro–macro link. Next, we trace how research on the
4 micro–macro link during China’s institutional transitions has evolved and
5 how this research has influenced work beyond the China context.

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

METHODOLOGY

Journal Selection

We first identify the journals to be included in the review. We choose the following 11 journals: *AMJ*, *Administrative Science Quarterly (ASQ)*, *AJS*, *ASR*, *Asia Pacific Journal of Management (APJM)*, *Journal of International Business Studies (JIBS)*, *Journal of Management (JM)*, *Journal of Management Studies (JMS)*, *Organization Science (OSc)*, *Organization Studies (OSi)*, and *Strategic Management Journal (SMJ)*. These are generally regarded as the leading outlets in management and organization research in which China scholars aspire to publish their work (Peng, Au et al., 2001; Peng, Lu et al., 2001; Quer et al., 2007). Because we choose to focus on empirical research, leading journals such as the *AMR* that exclusively publish theoretical (non-empirical) work are not considered.

Paper Selection

After identifying these journals, we then choose the papers to be reviewed. We focus on two fields: (1) managerial ties and (2) interlocking directorates. Managerial ties are defined as “executives’ boundary-spanning activities and their associated interactions with external entities” (Geletkanycz & Hambrick, 1997, p. 654). Following Peng and Luo (2000), we identify two types of managerial ties in China. The first type is ties with managers at other firms (referred as “business ties” in Tables 1 and 2), represented by cross-firm ties among executives, such as the managerial ties between suppliers and buyers, between competitors, and so on. The second type is managerial ties with government officials (referred as “government ties” in Tables 1 and 2). For interlocking directorates, we employed Mizruchi’s definition: “one person affiliated with one organization sits on the board of directors of another organization” (1996, p. 271). In addition to managerial ties and interlocking directorates, we also examine the social capital

Table 1. Studies on the Micro–Macro Link in Mainland China.

Paper	Journal	Sample and Method	Ties	Main Findings
Xin and Pearce (1996)	AMJ	Structured interview with 32 managers in various ownership companies in China	Business and government ties	Executives in private companies are more dependent on <i>guanxi</i> than executives in state-owned or collective-hybrid companies
Keister (1998)	AJS	Interview-based panel data on China's largest 40 business groups and the financial performance of their 535 member firms	Interlocking directorates	There is a positive relationship between the presence and predominance of interlocking directorates and firm performance
Peng and Luo (2000)	AMJ	Mail survey questionnaire to 127 top managers in China	Business and government ties	The positive effect of managerial ties on firm performance is contingent on firm and industry factors
Li and Atuahene-Gima (2001)	AMJ	Onsite interview with top managers in 184 new technology ventures in Beijing	Government ties	Political networking does not moderate the relationship between product innovation strategy and the performance of new technology ventures
Luo (2001)	JM	Mail survey of 168 MNE subsidiaries in the Yangtze River Delta and the Pearl River Delta	Business and government ties	Having ties with managers at other businesses and with government officials is positively correlated with an MNE subsidiary's local responsiveness
Park and Luo (2001)	SMJ	Mail survey of 128 firms in China	Business and government ties	Institutional, strategic, and organizational factors determine <i>guanxi</i> utilization, which leads to higher firm performance
Luo (2003)	SMJ	Mail survey questionnaire to executives in 364 firms in manufacturing industries in China	Business and government ties	Industrial conditions influence the level of executives' managerial networking and the relationship is moderated by firm's strategic proactiveness

Table 1. (Continued)

Paper	Journal	Sample and Method	Ties	Main Findings
Li (2005)	<i>APJM</i>	Onsite interview with senior managers in 181 foreign-invested enterprises (FIE) operating in China	Business and government ties	Firms' strategic orientations influence the formation of managerial networks, which positively influence the performance of FIEs
Wu and Leung (2005)	<i>APJM</i>	Structured questionnaire to 177 CEOs of small- and medium-sized enterprises in rural China	Business and government ties	There is a micro-macro link from a manager's value of reciprocity, to trust and to firm performance
Li and Zhang (2007)	<i>SMJ</i>	Onsite questionnaire interview of 184 new technology ventures in Beijing	Government ties	Managers' political networking is positively related to new venture performance. But the positive relationship is not moderated by ownership or dysfunctional competition
Zhou et al. (2007)	<i>JIBS</i>	Interview-based questionnaire surveys with top managers of 129 small and medium enterprises in Zhejiang	Business and government ties	<i>Guanxi</i> -related social networks mediate the relationship between inward and outward internationalization and firm performance
Gao et al. (2008)	<i>APJM</i>	Onsite survey of 174 local and foreign companies in China	Business ties and university ties	Absorptive capacity moderates the positive effect of managerial ties on firm's innovativeness

Table 2. Studies on the Micro–Macro Link in other Contexts.

Paper	Journal	Sample and Method	Ties	Main Findings
Lee and Tsang (2001)	<i>JMS</i>	Questionnaire survey with 168 Chinese entrepreneurs in small- and medium-sized businesses in Singapore	Business ties	The frequency and breadth of an entrepreneur's networking is positively related to venture growth and the relationship is contingent on firm size
Peng, Au et al., 2001; Peng, Lu et al., 2001	<i>APJM</i>	Archival data on the top 200 publicly listed firms in Thailand	Interlocking directorates	Compared with non-MNEs, MNEs have more densely connected interlocks, occupy more central locations in the interlocks network, and appoint more military directors
C. Chung (2005)	<i>OSI</i>	Case studies of five major Taiwanese business groups and demographic data of 150 Taiwanese group founders	Business and government ties	Personalistic network is a necessary but insufficient condition to explain the entrepreneurship of Taiwanese group founders. Personalistic networks influenced group diversification in the early stages but the influence decreased with the development of market institutions
H. Chung (2006)	<i>APJM</i>	Archival data of Taiwan's largest 100 business groups	Government ties	Possession of managerial ties with government determines a business group's decision to enter a deregulated industry

1				
3				
5				
7				
9				
11				
13				
15				
17				
19				
21				
23				
25				
27				
29				
31				
33				
35				
37				
39				
Acquaah (2007)	<i>SMJ</i>	Questionnaire survey of 106 manufacturing and service firms operating in Ghana	Business, government, and community ties	Social capital developed from ties with managers at other firms, government officials, and community leaders, and is positively correlated with firm's performance. This positive relationship is contingent on firm's strategic orientations
Siegel (2007)	<i>ASQ</i>	Archival data of 665 firms listed on the Korea Stock Exchange	Government ties	Having ties with regime in power increased the rate at which South Korean companies formed cross-border strategic alliances, but having ties with political enemies of the regime in power decreases that rate. Ties with government remained valuable after long period of liberalization in Korea
Luk et al. (2008)	<i>JIBS</i>	Mail survey of 203 manufacturing companies in various industries in Hong Kong.	Business and government ties	<i>Guanxi</i> with managers at other firms positively affects product-related innovativeness, but does not directly affect firm performance. <i>Guanxi</i> with government officials does not affect administrative innovativeness

1 embedded in them. The term social capital has been defined in different
ways. Despite this diversity, a general definition is "... the sum of resources,
3 actual or virtual, that accrue to an individual or a group by virtue of
possessing a durable network of more or less institutionalized relation-
5 ships of mutual acquaintance and recognition" (Bourdieu & Wacquant,
1992, p. 119).

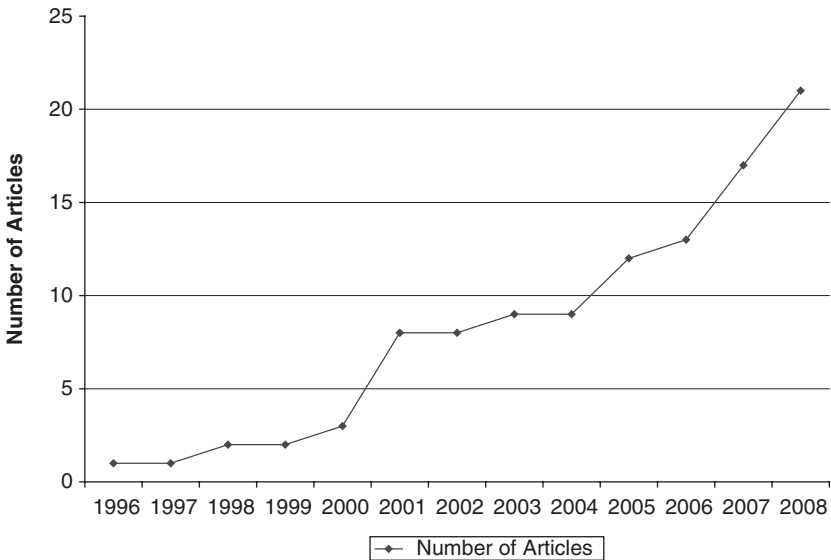
7 We use the Social Science Citation Index (SSCI) database as our primary
search engine, since all the journals, except *APJM*, are included in SSCI.⁵
9 For *APJM*, we use the search engine provided by the journal's website
(www.springer.com/10490) to search within that journal. After searching
11 SSCI and *APJM* website, we use EBSCO to double check our search results.
In SSCI, we use the search field of topic to identify our target papers.
13 Topic includes the following fields: title, abstract, author keywords, and
keywords plus. To identify papers about managerial ties, we enter the
15 following four combinations of words into topic column, respectively:
(1) *guanxi*, (2) ties AND China, (3) network*⁶ AND China, and (4) social
17 capital AND China.

Then, we content-analyze each paper in the list from search results and
19 choose those that meet the following requirements: (1) The paper investigates
informal personalized ties between managers in two firms or between a
21 manager and a government official. So the ties are at the individual level.
We exclude papers investigating ties at the firm or organizational level, such
23 as contractual ties. (2) The paper investigates personal ties with managers at
other firms or government officials. We exclude those examining kinship ties,
25 friendship ties, and other non-work-related ties. (3) The ties should occur
outside the focal person's organization. We exclude those investigating
27 ties within a firm. (4) The antecedents, contingencies, and outcomes of ties
are at the firm level or above. We exclude those investigating individual-
29 level antecedents, contingencies, and outcomes, such as personality traits and
venture capitalists' decisions. (5) We only consider papers with an empirical
31 content. Based on these five criteria, we identify 14 articles about managerial
ties. Among them, nine articles relate to mainland China, one is a compar-
33 ative study between mainland China and Hong Kong, and four relate to
other contexts but include China either in abstract or in keywords. The last
35 set of these four articles includes China as the topic word (per SSCI).
Therefore, they are clearly influenced by China studies and we include them in
37 our review. For papers about interlocking directorates, we enter interlock
AND China as the topic and identify one paper. In total, there are 15
39 papers about managerial ties or interlocking directorates that are published in

1 eight journals. Among these journals, *SMJ* published five papers, *AMJ*
2 published three, *JIBS* published two, and *ASQ*, *AJS*, *JM*, *JMS*, and *OSt* each
3 published one.

4 For *APJM*, we follow the same procedure and criteria to identify papers.
5 The only difference is that the *APJM* website does not allow us to search by
6 “topic” function. Therefore, we search within both abstracts and titles.
7 In doing so, we have identified five empirical papers about managerial ties
8 and two about interlocking directorates. Among the five managerial ties
9 papers, four relate to mainland China and one relates to other contexts.
10 Among the two interlocking papers, one relates to mainland China and the
11 other relates to other contexts.

12 Finally, we search in the EBSCO database by the same procedure and
13 criteria to double check if we have omitted any paper. No new paper is
14 added after we search by EBSCO. Overall, in total, 22 papers are included in
15 our review, 19 about managerial ties and 3 about interlocking directorates
16 (see Tables 1 and 2). The trend is clearly growing (Fig. 1).
17



18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39

Fig. 1. Micro–Macro Link Articles related to China. Published in Nine Journals during 1996–2008 (Cumulative).

WHAT IS KNOWN ABOUT THE MICRO–MACRO LINK

The relationships explored in the 22 papers are summarized according to the links depicted in Figs. 2 and 3. Extending Li's (2005) conceptual framework, we synthesize the literature on managerial ties in Fig. 2, including the antecedents, contingencies, and outcomes of two types of managerial ties.

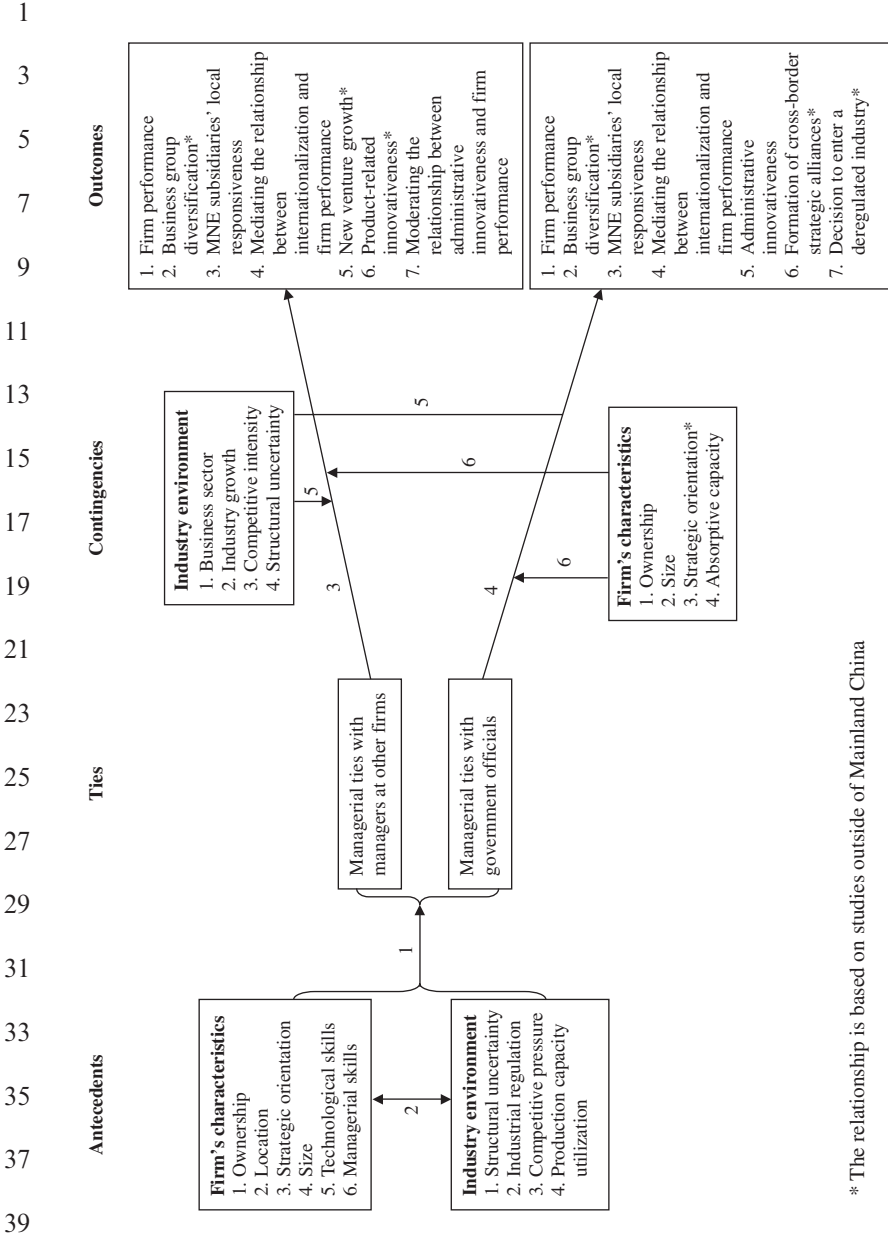
Link 1 depicts how firm characteristics and industry environment influence the formation of managerial ties both with managers at other firms and with government officials. Firm characteristics, including ownership, location, strategic orientation, size, technological skills, management skills, and age, have different influences on the likelihood and intensity of managerial ties. Xin and Pearce (1996) find that compared with executives in state-owned or collective-hybrid companies, executives in private companies consider *guanxi* more important, depend more on *guanxi*, build more ties with government officials, give more unreciprocated gifts, and trust their ties more. Their findings show the effect of firm ownership – specifically, private versus non-private ownership – on ties formation.

Park and Luo (2001) support the ownership effect by differentiating state-owned with non-state-owned firms and find the latter are more likely to form both business and government ties. In addition, they report that firm's location and strategic orientation also significantly influence the formation of both types of ties. However, firm size, organizational skills, and managerial skills are only correlated with the formation of business ties, not government ties. Finally, they find firm age to have no influence on tie formation.

Consistent with the findings of Park and Luo (2001), Li (2005) shows that firm's strategic orientation – specifically market orientation, technology orientation, and entrepreneurial orientation – is correlated with the likelihood of tie formation. Technology orientation exerts an opposite effect on different type of ties while market orientation and entrepreneurial orientation generate the same effect on both ties.

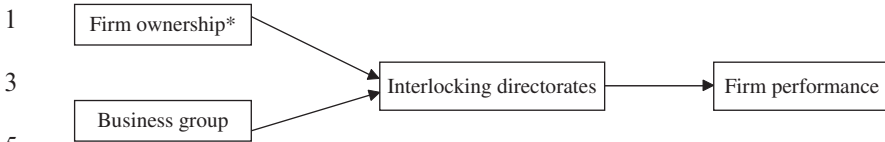
Luo (2003) is the first paper that investigates how industry environment influences the level of managerial networking. It finds that among the five industrial attributes, structural uncertainty, industrial regulation, competitive pressure, and production capacity utilization are all related to networking while industrial growth is not.

Link 2 shows the interacting effect between firms' characteristics and industry environment on ties formation. Luo (2003) reports that a firm's



* The relationship is based on studies outside of Mainland China

Fig. 2. Research on the Micro-Macro Link Centered on Managerial Ties.



* The relationship is based on studies outside of Mainland China

7 *Fig. 3. Research on the Micro–Macro Link Centered on Interlocking Directorates.*

9 strategic proactiveness moderates the effects of industry environment on
 11 managerial networking, while Li (2005) finds that industry's competitive
 13 intensity moderates the relationship between a firm's strategic orientation
 and managerial networking.

15 Link 3 shows that ties with managers at other firms lead to several firm-
 17 level outcomes. The most frequently discussed is firm performance, captured
 19 by various measures (Li, 2005; Li, Poppo, & Zhou, 2008; Luk et al., 2008;
 21 Park & Luo, 2001; Peng & Luo, 2000; Wu & Leung, 2005; Zhang & Li, 2008).
 23 In addition to the effect on firm performance, managerial ties with managers
 25 at other firms also lead to new venture growth (Lee & Tsang, 2001), MNE
 subsidiaries' local responsiveness (Luo, 2001), firm's innovation (Gao, Xu, &
 Yang, 2008; Luk et al., 2008), and business group diversification (C. Chung,
 2005). Ties with managers at other firms also mediate the relationship
 between internationalization and firm performance (Zhou, Wu, & Luo, 2007)
 and moderate the relationship between administrative innovativeness and
 firm performance (Luk et al., 2008).

27 Link 4 shows that ties with government officials lead to several firm-level
 29 outcomes. Similar as the ties with managers at other firms, ties with govern-
 31 ment officials led to higher firm performance (Li, 2005; Li et al., 2008; Peng
 & Luo, 2000; Park & Luo, 2001; Wu & Leung, 2005; Zhang & Li, 2008),
 increased MNE subsidiaries' local responsiveness (Luo, 2001), promoted
 business group diversification (C. Chung, 2005), and mediated the relation-
 ship between internationalization and firm performance (Zhou et al., 2007).
 33 The unique value of government ties lies in the effect on administrative
 innovativeness (Luk et al., 2008), the formation of cross-border strategic
 35 alliances (Siegel, 2007), and a business group's decision to enter a
 deregulated industry (H. Chung, 2006).

37 Link 5 shows how industry environment moderates the relationship
 39 between managerial ties and firm-level outcomes. The positive effect of
 managerial ties on firm performance is contingent on the business sector
 that a firm is in (Peng & Luo, 2000), the industry growth (Peng & Luo, 2000),

1 and the competitive intensity and structural uncertainty that a firm faces in its
industry (Li et al., 2008).

3 Link 6 shows how a firm’s characteristics moderate the relationship
between managerial ties and firm-level outcomes. The positive effect of
5 managerial ties on firm performance is contingent on firm ownership
(Li et al., 2008; Peng & Luo, 2000), firm size (Peng & Luo, 2000), and
7 strategic orientation (Acquaah, 2007). In addition, the positive effect of
entrepreneur’s networking on venture growth is contingent on firm size
9 (Lee & Tsang, 2001). Finally, the positive effect of managerial ties on firm’s
innovativeness is contingent on firm’s absorptive capacity (Gao et al., 2008).

11 Fig. 3 depicts the relationship between interlocking directorates and the
antecedents and outcomes. Interlocking directorates are positively asso-
13 ciated with firm performance (Keister, 1998). They occur mainly in smaller
business groups and are more prevalent among industrial peers (Ren et al.,
15 2009). Compared with non-MNEs, MNEs have more densely connected
interlocks, occupy more central locations in the interlocks network, and
17 appoint more military directors (Peng, Au et al., 2001; Peng, Lu et al., 2001).

21 THEORETICAL ARGUMENTS FOR 23 FURTHER RESEARCH

25 Systematically reviewing the micro–macro literature not only helps us take
stock in terms of what has been done, but also helps identify missing gaps
that will be useful in future research. As we can see in Fig. 2, empirical
27 research has comprehensively investigated the antecedents, contingencies,
and outcomes of managerial ties. Peng (2003) argues that the importance of
29 managerial ties will decline as market-supporting institutions are better
developed. However, no empirical research has employed a longitudinal
31 approach to examine the *evolution* of managerial ties (Hite & Hesterly,
2001). Peng and Zhou (2005) argue conceptually that as government control
33 and intervention decrease and legal frameworks become more compre-
hensive and effective, the intensity of business-to-business ties and business-to-
35 government ties will change from strong to weak during institutional
transitions. Except an earlier qualitative study by Guthrie (1998), no study
37 has comprehensively tested this claim using longitudinal and quantitative
methods.

39 Extending the arguments advanced in Peng (2003) and Peng and Zhou
(2005), we propose that the network structure of managerial ties will change

1 in different periods of China's institutional transitions. As China's economy
2 develops from the early phase to the late phase, more and more impersonal,
3 rule-based, and arm's-length transactions will emerge. At the same time,
4 transactions based on personal connections and managerial ties will still
5 play an important role, due to the fact that economic transactions are
6 embedded in numerous social relations (Granovetter, 1985).

7 In the early phase of China's institutional transitions, managerial ties
8 tend to build into a cohesive network, in which each manager is connected
9 with other members by strong ties. According to Coleman (1990), dense,
10 interconnected networks can breed trust among members and thus prevent
11 opportunistic behaviors. Strong ties can facilitate highly non-codified
12 knowledge transfer (Hansen, 1999) and fine-grained information transfer
13 (Uzzi, 1997). They also promote joint problem-solving, improve members'
14 ability to quickly utilize market opportunities, and motivate members to
15 share risks with each other (Uzzi, 1997). These benefits not only result from
16 the trust that network closure generates, but also come from the third-party
17 monitoring that cohesive network builds (Granovetter, 1985). Since
18 members are linked with common third parties, an opportunistic behavior
19 may bring serious damage to defectors' reputation and lead to long-lasting
20 negative consequences (Gulati, 1995).

21 China's transition economy is characterized by "weak market structures,
22 poorly specified property rights, and institutional uncertainty" (Nee, 1992,
23 p. 4). Since firm behaviors are constrained by high transaction costs,
24 underdeveloped markets, and strong government intervention (Boisot &
25 Child, 1996; Keister, 2009), firms have to cultivate personal connections
26 (*guanxi*) rather than relying on contracts and legal framework to implement
27 transactions. Cohesive networks can protect members' assets by specifying
28 property rights, and provide members with valuable resources that are not
29 accessible through the underdeveloped strategic factor market. The normative
30 pressures generated by cohesive networks help reduce opportunistic behaviors
31 and thus decrease transaction costs. In all, managerial ties tend to build into
32 cohesive networks due to the high environmental uncertainty and under-
33 developed market in the early phase of China's institutional transitions.

34 In contrast, in the late phase of institutional transitions, the structure of
35 managerial networks will become rich in structural holes. According to Burt
36 (1992, 1997), people who occupy structural hole positions can acquire
37 information benefits and control benefits by bridging the disconnected
38 members in a social network. The weak ties that bridge these disconnected
39 members can provide brokers with diverse and novel ideas that are socially
40 distant from them (Granovetter, 1972; Burt, 1992). In addition to better

1 access to information, advantages in negotiations and recognition of
opportunities also result from structural hole positions (Burt, 1992, 1997).

3 In the late phase of China’s institutional transitions, the improvement of
legal framework, the development of property rights, and the diminishing
5 of government intervention greatly reduce uncertainty and facilitate the
maturing of a market economy, which enables managers to take advantage
7 of structural hole benefits (Lin, Peng, Yang, & Sun, 2009). First, as market
develops and transaction becomes more complex and involves more
9 transaction partners (North, 1990), managers are able to build networks
with many disconnected members. The lack of connections among members
11 in the network provides broker managers with diversified information,
which helps them identify potential opportunities, monitor market dynam-
13 ics, and acquire new knowledge and skills. Second, with the development
of legal framework and property rights, managers become more willing
15 to conduct arm’s-length transactions (North, 1990). Thus, brokers are able to
reduce the search costs of disconnected managers by introducing them to each
17 other and may seek control benefits by manipulating each partner’s behaviors
(Lin et al., 2009).

19 In this late phase, cohesive networks may decrease in number, because the
gradually developed formal institutions serve many functions of the former
21 cohesive networks, such as inhibiting opportunistic behaviors, reducing
transaction uncertainty, and providing necessary resources. Meanwhile, the
23 disadvantages of cohesive networks may outweigh the benefits. Strong ties
embedded in a cohesive network tend to circulate redundant information
25 among members, thus providing no novel opportunities (Granovetter,
1972). Cohesive networks also generate normative and conformity pressures
27 that can force members to sacrifice their own benefits (Coleman, 1988; **AU:2**
Portes & Sensenbrenner, 1993). The high cohesiveness of a manager’s
29 network may lower the manager’s ability to adapt to the changing require-
ments of a new task environment (Gargiulo & Benassi, 2000). Finally, the
31 inertia resided in strong ties can restrain members from fully exploring other
possibilities (Hansen, 1999).

33 Overall, we argue that the structure of managerial networks will change
from a cohesive network to a network rich in structural holes as China
35 transits from planned to market economy. We believe that these theoretical
arguments regarding the evolution of managerial networks warrant
37 attention from empirical researchers in the future. Furthermore, future
research can examine how the micro-level changes in the structure of
39 managerial networks can influence the macro-level organizational out-
comes, such as those discussed in the extant literature.

DISCUSSION AND CONCLUSION

Overall, management and organization research on China, with a focus on the micro–macro link, has been flourishing since the late 1990s. From a small number of studies appearing in area-studies outlets, research on the micro–macro link has now routinely appeared in leading discipline-based journals in management and sociology. Among several streams of recent China research, the stream on the micro–macro link has become the most widely cited and thus most influential (Quer et al., 2007). Moreover, this research has asserted its influence beyond China. As we can see from Table 2, research on managerial ties and interlocking directorates in China has influenced related studies in other contexts, such as Singapore (Lee & Tsang, 2001), Thailand (Peng, Au et al., 2001; Peng, Lu et al., 2001), Taiwan (C. Chung, 2005; H. Chung, 2006), Ghana (Acquaah, 2007), South Korea (Siegel, 2007), Hong Kong (Luk et al., 2008), and the United States (Lin et al., 2009). These findings have enriched our understanding of the antecedents of interlocking directorates and the outcomes of managerial ties *around the world*.

Future research may need to compare the different roles that managerial ties play in a variety of contexts. To the best of our knowledge, there are only two comparative studies. Luk et al. (2008) conduct a comparative study between mainland China and Hong Kong and show that managerial ties serve different functions in these two contexts. Lin et al. (2009) compare and contrast China and the United States in the context of alliances and acquisitions. Lin et al. report interesting findings: in China, more centrally located firms are *more* likely to acquire member firms in an alliance network. But in the United States, more centrally located firms are *less* likely to engage in similar acquisitions. Clearly, the benefits enjoyed by centrally located firms in China and the United States are different. These intriguing findings warrant further exploration.

In addition, future work may explore the impact of informal institutional transitions on the evolution of network ties. For example, how does the change in cognitive pillar and normative pillar (Scott, 1995) influence managers' perceptions, values, and beliefs? Such a change may in turn affect the ties. Furthermore, the interacting effect between formal institutions and informal institutions on managerial ties may need to be addressed in future research (Peng & Chen, 2009; Peng & Jiang, 2005).

In conclusion, research on the micro–macro link during China's institutional transitions has pushed the frontier of management and organization research, and generated excitement among scholars not only interested in

1 China, but also interested in numerous other countries. Despite the progress
made, we are far from achieving a complete understanding of the mechanisms
3 underpinning the micro–macro link during institutional transitions. There-
fore, more sustained efforts by scholars in and out of China will be necessary
5 in the years to come.

NOTES

11 1. The leading management journal focusing on Asia, the *Asia Pacific Journal of*
Management, celebrated its 25th anniversary in 2008 (Peng, 2007).

13 2. In this article, China refers to the People’s Republic of China (or mainland
China), excluding Hong Kong, Taiwan, and other Chinese-speaking regions. For
research on Greater China other than mainland China, see Peng, Au, and Wang
15 (2001), Peng, Lu, Shenkar, and Wang (2001), and Yeung (2006).

3. See Keister (2009) for a most recent example.

17 4. Quer et al. (2007, p. 368) report that Peng and Luo (2000) is the most cited
empirical paper on China among 180 such papers published in 12 leading journals
between 2000 and 2005.

19 5. Recently, *APJM* was accepted by SSCI as of 2008.

21 6. Network* represents any word that includes the characters of network, such as
network, networks, and networking.

ACKNOWLEDGMENTS

25 This research was supported, in part, by the National Science Foundation
27 (CAREER SES 0552089) and the Provost’s Distinguished Professorship
at the University of Texas at Dallas. We thank Lisa Keister for editorial
29 guidance and Erin Pleggenkuhle-Miles for helpful comments.

REFERENCES

- 33 Acquaah, M. (2007). Managerial social capital, strategic orientation, and organizational
35 performance in an emerging economy. *Strategic Management Journal*, 28, 1235–1255.
Boisot, M., & Child, J. (1996). From fiefs to clans and network capitalism: Explaining China’s
37 emerging economic order. *Administrative Science Quarterly*, 41, 600–628.
Bourdieu, P., & Wacquant, L. (1992). *An invitation to reflexive sociology*. Chicago: University of
Chicago Press.
39 Bruton, G. D., & Lau, C.-M. (2008). Asian management research: Status today and future
outlook. *Journal of Management Studies*, 45, 636–659.

- 1 Burt, S. (1992). *Structural holes. The social structure of competition*. Cambridge: Harvard University Press.
- 3 Burt, S. (1997). The contingent values of social capital. *Administrative Science Quarterly*, 42, 339–364.
- 5 Chung, C. (2005). Beyond *guanxi*: Network contingencies in Taiwanese business groups. *Organization Studies*, 27, 461–489.
- 7 Chung, H. (2006). Managerial ties, control and deregulation: An investigation of business groups entering the deregulated banking industry in Taiwan. *Asian Pacific Journal of Management*, 23, 505–520.
- 9 Coleman, J. S. (1990). *Foundations of social theory*. Cambridge: Harvard University Press.
- Gao, S., Xu, K., & Yang, J. (2008). Managerial ties, absorptive capacity, and innovation. *Asia Pacific Journal of Management*, 25, 395–412.
- 11 Gargiulo, M., & Benassi, M. (2000). Trapped in your own net? Network cohesion, structural holes, and the adaptation of social capital. *Organization Science*, 11, 183–196.
- 13 Geletkanycz, M. A., & Hambrick, D. C. (1997). The external ties of top executives: Implications for strategic choice and performance. *Administrative Science Quarterly*, 42, 654–681.
- 15 Granovetter, M. (1972). The strength of weak ties. *American Journal of Sociology*, 78, 1360–1380.
- Granovetter, M. (1985). Economic action and social structure: A theory of embeddedness. *American Journal of Sociology*, 91, 481–510.
- 17 Gulati, R. (1995). Social structure and alliance formation pattern: A longitudinal analysis. *Administrative Science Quarterly*, 40, 619–652.
- 19 Guthrie, D. (1998). The declining significance of *guanxi* in China's economic transition. *China Quarterly*, 154, 254–282.
- Hansen, M. (1999). The search transfer problem: The role of weak ties in sharing knowledge across organization sub-units. *Administrative Science Quarterly*, 44, 82–111.
- 21 Hite, J. M., & Hesterly, W. S. (2001). The evolution of firm networks: From emergence to early growth of the firm. *Strategic Management Journal*, 22, 275–286.
- 23 Keister, L. A. (1998). Engineering growth: Business group structure and firm performance in China's transition economy. *American Journal of Sociology*, 104, 404–440.
- 25 Keister, L. A. (2001). Exchange structures in transition: Lending and trade relations in Chinese business groups. *American Sociological Review*, 66, 336–360.
- 27 Keister, L. A. (2009). Organizational research on market transition: A sociological approach. **AU** *Asia Pacific Journal of Management*, 26, (in press).
- 29 Lee, D., & Tsang, E. (2001). The effects of entrepreneurial personality, background and network activities on venture growth. *Journal of Management Studies*, 38, 583–602.
- 31 Li, J. J. (2005). The formation of managerial networks of foreign firms in China: The effects of strategic orientations. *Asia Pacific Journal of Management*, 22, 423–443.
- 33 Li, H., & Atuahene-gima, K. (2001). Product innovation strategy and the performance of new technology ventures in China. *Academy of Management Journal*, 44, 1123–1134.
- 35 Li, Y., & Peng, M. W. (2008). Developing theory from strategic management research in China. *Asia Pacific Journal of Management*, 25, 563–572.
- 37 Li, J. J., Poppo, L., & Zhou, K. Z. (2008). Do managerial ties in China always produce value? Competition, uncertainty, and domestic vs. foreign firms. *Strategic Management Journal*, 29, 383–400.
- 39 Li, B., & Walder, A. G. (2001). Career advancement as party patronage: Sponsored mobility into the Chinese administrative elite, 1949–1996. *American Journal of Sociology*, 106, 1371–1408.


- 1 Li, H., & Zhang, Y. (2007). The role of managers political networking and functional
 2 experience in new venture performance: Evidence from China's transition economy.
 3 *Strategic Management Journal*, 28, 791–804.
- 4 Lin, Z., Peng, M. W., Yang, H., & Sun, S. L. (2009). How do networks and learning drive
 5 M&As? An institutional comparison between China and America. *Strategic Manage-*
 6 *ment Journal* (in press). AU 4
- 7 Luk, C., Yau, O., Sin, L., Tse, A., Chow, R., & Lee, J. (2008). The effects of social capital and
 8 organizational innovativeness in different institutional contexts. *Journal of International*
 9 *Business Studies*, 39, 589–612.
- 10 Luo, Y. (2001). Determinants of local responsiveness: Perspectives from foreign subsidiaries in
 11 an emerging market. *Journal of Management*, 27, 451–477.
- 12 Luo, Y. (2003). Industrial dynamics and managerial networking in an emerging market:
 13 The case of China. *Strategic Management Journal*, 24, 1315–1327.
- 14 Mizruchi, M. S. (1996). What do interlocks do? An analysis, critique, and assessment of
 15 research on interlocking directorates. *Annual Review of Sociology*, 22, 271–298.
- 16 Mizruchi, M. S., & Galaskiewicz, J. (1994). Networks of interorganizational relations. In:
 17 S. Wasserman & J. Galaskiewicz (Eds), *Advances in social network analysis* (pp. 230–253).
 18 Thousand Oaks, CA: Sage.
- 19 Nee, V. (1989). A theory of market transition: From redistribution to markets in state socialism.
 20 *American Sociological Review*, 54, 663–681.
- 21 Nee, V. (1992). Organizational dynamics of market transition: Hybrid forms, property rights,
 22 and mixed economy in China. *Administrative Science Quarterly*, 37, 1–27.
- 23 North, D. (1990). *Institutions, institutional change, and economic performance*. Cambridge:
 24 Harvard University Press.
- 25 Park, S. H., & Luo, Y. (2001). *Guanxi* and organizational dynamics: Organizational networking
 26 in Chinese firms. *Strategic Management Journal*, 22, 455–477.
- 27 Peng, M. W. (2003). Institutional transitions and strategic choices. *Academy of Management*
 28 *Review*, 28, 275–296.
- 29 Peng, M. W. (2004). Outside directors and firm performance during institutional transitions.
 30 *Strategic Management Journal*, 25, 453–471.
- 31 Peng, M. W. (2007). Celebrating 25 years of Asia Pacific management research. *Asia Pacific*
 32 *Journal of Management*, 24, 385–393.
- 33 Peng, M. W., Au, K., & Wang, D. (2001). Interlocking directorates as corporate governance in
 34 third world multinationals: Theory and evidence from Thailand. *Asia Pacific Journal of*
 35 *Management*, 18, 161–181.
- 36 Peng, M. W., & Chen, H. (2009). Strategic responses to domestic and foreign institutional
 37 pressures in the Chinese toy industry. *International Studies of Management and*
 38 *Organization* (in press).
- 39 Peng, M. W., & Heath, P. S. (1996). The growth of the firm in planned economies in transition:
 40 Institutions, organizations, and strategic choice. *Academy of Management Review*, 21,
 41 492–528.
- 42 Peng, M. W., & Jiang, Y. (2005). Entrepreneurial strategies during institutional transitions.
 43 In: L. A. Keister (Ed.), *Research in the sociology of work: Entrepreneurship* (pp. 311–325).
 44 Greenwich, CT: JAI.
- 45 Peng, M. W., Lu, Y., Shenkar, O., & Wang, D. (2001). Treasures in the China house: A review
 46 of management and organizational research on Greater China. *Journal of Business*
 47 *Research*, 52, 95–110.

- 1 Peng, M. W., & Luo, Y. (2000). Managerial ties and firm performance in a transition economy: The nature of a micro-macro link. *Academy of Management Journal*, 43, 486–501.
- 3 Peng, M. W., Wang, D., & Jiang, Y. (2008). An institution-based view of international business strategy: A focus on emerging economies. *Journal of International Business Studies*, 39, 920–936.
- 5 Peng, M. W., & Zhou, J. Q. (2005). How network strategies and institutional transitions evolve in Asia. *Asia Pacific Journal of Management*, 22, 321–336.
- 7 Portes, A., & Sensenbrenner, J. (1993). Embeddedness and immigration: Notes on the social determinants of economic action. *American Sociological Review*, 66, 647–671.
- 9 Quer, D., Claver, E., & Rienda, L. (2007). Business and management in China: A review of empirical research in leading international journals. *Asia Pacific Journal of Management*, 24, 359–384.
- 11 Ren, B., Au, K., & Birtch, T. (2009). China's business network structure during institutional transitions. *Asia Pacific Journal of Management*, 26, (in press).
- 13 Scott, W. R. (1995). *The institutional construction of organizations: International and longitudinal studies*. Thousand Oaks: Sage.
- 15 Siegel, J. (2007). Contingent political capital and international alliances: Evidence from South Korea. *Administrative Science Quarterly*, 52, 621–666.
- 17 Uzzi, B. (1997). Social structure and competition in interfirm networks: The paradox of embeddedness. *Administrative Science Quarterly*, 42, 35–67.
- 19 Walder, A. G. (1989). Factory and manager in an era of reform. *China Quarterly*, 118, 242–264.
- 19 Walder, A. G. (2002). *The transformation of contemporary China studies, 1977–2002*. University of California International and Area Studies Digital Collection, (<http://repositories.cdlib.org/unciaspubs/editedvolumes/3/8>)
- 21 Walder, A. G. (2003). Elite opportunity in transition economies. *American Sociological Review*, 68, 899–916.
- 23 Walder, A. G., & Nguyen, G. H. (2008). Ownership, organization, and income inequality: Market transition in rural Vietnam. *American Sociological Review*, 73, 251–269.
- 25 Wu, W., & Leung, A. (2005). Does a micro-macro link exist between managerial value of reciprocity, social capital and firm performance? The case of SMEs in China. *Asia Pacific Journal of Management*, 22, 445–463.
- 27 Xin, K. R., & Pearce, J. L. (1996). *Guanxi*: Connections as substitutes for formal institutional support. *Academy of Management Journal*, 39, 1641–1658.
- 29 Yang, M. (1994). *Gifts, favors, and banquets: The art of social relationships in China*. Ithaca: Cornell University Press.
- 31 Yeung, H. (2006). Change and continuity in Southeast Asian ethnic Chinese business. *Asia Pacific Journal of Management*, 23, 229–254.
- 33 Zhang, S., & Li, X. (2008). Managerial ties, firm resources, and performance of cluster firms. *Asia Pacific Journal of Management*, 25, 615–633.
- 35 Zhou, L., Wu, W., & Luo, X. (2007). Internationalization and the performance of born-global SMEs: The mediating role of social networks. *Journal of International Business Studies*, 38, 673–690.

37

39

AUTHOR QUERY FORM

 ELSEVIER	Book: RSW-V019 Chapter: 7	Please e-mail or fax your responses and any corrections to: E-mail: Fax:
---	--	---

Dear Author,

During the preparation of your manuscript for typesetting, some questions may have arisen. These are listed below. Please check your typeset proof carefully and mark any corrections in the margin of the proof or compile them as a separate list.

Disk use

Sometimes we are unable to process the electronic file of your article and/or artwork. If this is the case, we have proceeded by:

- Scanning (parts of) your article Rekeying (parts of) your article
 Scanning the artwork

Bibliography

If discrepancies were noted between the literature list and the text references, the following may apply:

- The references listed below were noted in the text but appear to be missing from your literature list. Please complete the list or remove the references from the text.**
- UNCITED REFERENCES: This section comprises references that occur in the reference list but not in the body of the text. Please position each reference in the text or delete it. Any reference not dealt with will be retained in this section.**

Queries and/or remarks

Location in Article	Query / remark	Response
AU:1	The citation of the reference 'Peng et al. (2001)' has been changed to 'Peng, Au et al. (2001) and Peng, Lu et al. (2001)' as per the reference list. Please check and confirm.	
AU:2	The following reference is present in the text but not the reference list: Coleman (1988). Please provide complete details of the reference in the reference list or delete the reference from the text.	

1	AU:3	Please provide the page range in the following references: Keister (2009), Ren et al. (2009).	
3			
5	AU:4	Please provide the volume no. and page range in the following references: Lin et al. (2009), Peng and Chen (2009).	
7			

9

11

13

15

17

19

21

23

25

27

29

31

33

35

37

39