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# Network Marketing Businesses and Chinese Ethnicity Immigrants in Australia

by Fu Dai, Stephen T. T. Teo and Karen Yuan Wang

This study adopts two theoretical perspectives, Social Cognitive Theory and Theory of Planned Behavior, to examine a model of network marketing business participation by Chinese immigrants in Australia. A structural equations modeling analysis showed that the social environment within a network marketing organization positively influences the self-efficacy of Chinese network marketers and their desire to seek opportunities. These factors positively influence the actions undertaken by network marketers, and subsequently, impact positively on their performance outcome.

### Introduction

It is often the case that immigrants pursue a network marketing business (NMB) as they do not have adequate resources and the skills to establish their own small business in their newly adopted home country (Lin 2007). Network marketing is a system in which a manufacturer (network marketing firm) pays people outside the company to sell its products and services directly to consumers (Harris 2004); in return, each salesperson is given the opportunity to build his/her own network marketing organization (NMO) by recruiting, training, and motivating others to sell the same products and services (Harris 2004). Some studies (such as Biggart 1989; Lin 2007) argue that NMOs have been promoted as a way for ordinary people to pursue entrepreneurial opportunities and attain wealth. NMOs provide "an empowering tool" to socially disadvantaged individuals, such as females (Biggart 1998) and immigrants (Lin 2007), motivating them to take charge of their own life.

Kuntze (2001) claims individuals who pursue an NMB are entrepreneurial dreamers rather than real entrepreneurs. He suggests that network marketers are far less innovative than real entrepreneurs, because there is no need for network marketers to invent or fund a new type of business (Kuntze 2001). Kuntze (2001) also claims that network marketers are motivated extrinsically as they are more focused on pursuing the name of "entrepreneur" rather than meeting their "need for achievement." Bhattacharya and Mehta (2000), however, express a different view on network marketers and suggest that these individuals have a strong sense of innovation that is embedded in pursuing a successful business in a creative way. The distribution of products in NMOs is through the organization of social events in business meetings (Bhattacharya and Mehta 2000). According to Biggart (1989) and Bhattacharya and Mehta (2000), this type of product distribution in NMBs represents a form of innovation. Groß (2010) found that spiritual elements are propagated within NMOs to motivate their network marketers. A meaningful life and personal goals are important motivators for network marketers to pursue their NMBs. Groß's (2010) finding is supported by Biggart (1989). Thus, we argue that these individuals have an intrinsic motivation.

AQ2 Fu Dai is • • • in the • • • at Xiamen University, Tan Kah Kee College, International Business & Trade.

Stephen T. T. Teo is • • • in the • • • at Auckland University of Technology, AUT Business School.

Karen Yuan Wang is • • • in the • • • at University of Technology Sydney, School of Management.

Address correspondence to: F. Dai, Xiamen University, Tan Kah Kee College, International Business & Trade, Zhang Zhou, Fujian, China. E-mail: fu.dai@optusnet.com.au.

Some of the popular terminologies used in the literature for these individuals include representatives (Biggart 1989), agents (Koehn 2001), network marketers (Dai, Wang, and Teo 2011), distributors (Lin 2007; Pratt 2000), and MLM members (Sparks and Schenk 2006). One common theme shared among these individuals is their desire to pursue entrepreneurship via NMB (Sparks and Schenk 2006). Biggart (1989) argues that entrepreneurship in the network marketing industry is more than a type of economic action. "It is a powerful social ideal that came about with the emergence of capitalism" (Biggart 1989, p. 163). In the current paper, "network entrepreneur" is adopted to refer to these individuals, as they exhibit the traits of successful network marketers (McCelland 1987), such as the need for achievement (Lin 2007), innovation (Bhattacharya and Mehta 2000), and internal locus of control (Biggart 1989). They are intrinsically motivated to satisfy their internal needs (Groß 2010).

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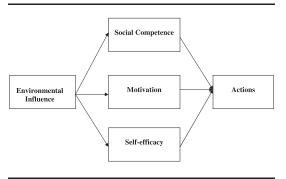
It has been shown that Chinese immigrants typically set up their own businesses in the host country (e.g., Collins 2002) and one of the business activities they pursue is network marketing (e.g., Lin 2007). Researchers such as Sequeira and Rasheed (2006) have recognized that the main reason immigrants pursue entrepreneurship is that they are disadvantaged in the labor market because of their inadequate host country language skills, and the depreciation of human capital. The willingness to become an entrepreneur for a particular immigrant group is driven by this adverse environment and the size of the immigrant group (Evans 1989).

Some studies have examined the motivations of Chinese immigrants participating in NMBs by adopting Social Cognitive Theory (SCT) (see, e.g., Dai, Wang, and Teo 2011). In their study, Dai, Wang, and Teo (2011) concluded that selfefficacy positively relates to actions undertaken in conducting an NMB. However, they did not examine how Chinese immigrants pursue entrepreneurship via building their NMBs in their newly adopted home country. This is an important research question as there are a significant number of Chinese immigrants joining NMBs in Australia (Sing Tao Daily (Australia), September 28, 2007). This aim of the current study is to FIAQEO answer this question (Figure 1).

# Conceptual Background and Hypotheses

SCT describes human functioning in terms of a model of triadic reciprocity in which behav-

## Figure 1 Model of Network Marketing **Business Entrepreneurial Action**



Source: Dai, Wang, and Teo (2011).

ioral factors (e.g., motivation and desire for 118 opportunity in the present study), personal 119 internal psychological factors (e.g., self-efficacy), 120 and environmental events (e.g., environmental 121 influence) all operate as interacting determi- 122 nants to each other (Bandura 1986). It explains 123 how motivation (behavior), desire for opportunity (behavior), and self-efficacy (personal internal psychological factors) are affected by the 126 influence of the social environment in NMOs 127 (Bandura 1986). SCT also suggests self-efficacy 128 is critical for regulating the actions undertaken 129 (Bandura 1997), which may in turn affect the 130 actions undertaken (Wood and Bandura 1989).

However, self-efficacy is not fully sufficient in 132 encouraging immigrants to conduct their NMB if 133 they do not have the desire to pursue the opportunity derived from an NMB (Krueger 1993). Fur- 135 thermore, our literature review suggests that SCT 136 does not specifically explain how the desire for 137 opportunities interacts with actions undertaken. 138 Without understanding this interaction, the 139 dependent variable (performance outcomes) will 140 not be addressed adequately and nor will the 141 research question be answered properly. To 142 explain the interaction between desire for oppor- 143 tunity and actions undertaken, Theory of Planned 144 Behavior (TPB) (Ajzen 1991) is introduced as a 145 complementary theory.

TPB is designed to predict and explain human 147 behavior in a specific context (Ajzen 1991). A 148 central factor in this theory is the individual's 149 intention to perform a given behavior. It postu- 150 lates three conceptually independent determi- 151 nants of intention: attitude toward the behavior, 152 subjective norm, and the degree of perceived behavioral control (or self-efficacy). This theory was used to develop the Entrepreneurial Intention Model (Krueger 2000). The Entrepreneurial Intention Model suggests that an individual's desire to pursue entrepreneurship and selfefficacy determines his/her entrepreneurial intention (Krueger 2000). Researchers suggest entrepreneurial intention leads to entrepreneurial actions (Carsrud and Brannback 2011); however, we argue that entrepreneurial actions determine the performance (Kuratko, Ireland, and Hornsby 2001). In addition, TPB and SCT can be linked by self-efficacy, as self-efficacy is a critical factor in both TPB and SCT. Therefore, TPB is appropriate in explaining how the desire for opportunity and self-efficacy determines the actions undertaken by network marketers in their business activities, which in turn are related to performance outcomes (Kuratko, Ireland. Hornsby 2001).

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Nevertheless, the disadvantage of TPB is that this theory does not explain how the environmental influence within NMO affects the factors of an individual's desire for opportunity and self-efficacy. Thus, it is necessary for the present study to integrate SCT with TPB. The integration of SCT with TPB will sufficiently address the dependent variable (performance outcome).

Biggart (1989) points out the critical factor in a network marketing firm's success is its ability to engage the energies of thousands of people and shape them into a highly productive organization (NMO). To effectively engage with their salespersons, popular network marketing firms, such as AMWAY, Mary Kay, Nu Skin, and Shaklee, along with their network entrepreneurs organize many business or training events in their markets every year (Bhattacharya and Mehta 2000). By doing this, an energetic social environment is developed within NMOs (Biggart 1989). It follows that the *influence of the social* environment within an NMO will thereby affect individual network entrepreneurs' behaviors and personal factors (Bandura 1986).

In their study, Dai, Wang, and Teo (2011) identified that the *influence* of social environment comprises three subvariables: cohesion (Sparks and Schenk 2006), peer influence (encouragement and support between network marketers) (Biggart 1989), and training. Dai et al. argue that the training provided by NMOs is essential because many inexperienced individuals pursue entrepreneurship via NMBs. A feature of the training undertaken in NMOs is that most training programs are delivered by other 208 network entrepreneurs (Sparks and Schenk 209 2006). In their training sessions, network entre- 210 preneurs share their knowledge and skills and 211 encourage each other (Biggart 1989). Within 212 NMOs, competition is not encouraged (Sparks 213 and Schenk 2006), otherwise the training pro- 214 grams would not be successful. Therefore, cohe- 215 sion within an NMO is essential and peer 216 influences among an NMO should be consid- 217 ered. Cohesion, peer influence, and training 218 within an NMO are important for network entre- 219 preneurs in running their businesses (Dai, 220 Wang, and Teo 2011). Following the study by 221 Dai, Wang, and Teo (2011), the present study 222 defines the influence of social environment as 223 the effect of the social atmosphere on network 224 entrepreneurs' cognition and behaviors. Social 225 environment consists of three factors: training 226 (Dai, Wang, and Teo 2011), peer influence (Big- 227 gart 1989), and perceived cohesion (Sparks and 228 Schenk 2006).

Dai, Wang, and Teo (2011) suggest that the 230 influence of social environment (training, peer 231 influence, and perceived cohesion) positively 232 affect NMB-specific self-efficacy. Similar to the 233 study by Dai, Wang, and Teo (2011), NMB- 234 specific self-efficacy is defined as a network 235 entrepreneur's belief in their ability to attain the 236 expected results when conducting NMB activ- 237 ities. Empirical support in the study of Dai et al. 238 shows that that NMB specific self-efficacy is 239 comprised of two subfactors: degree of easiness 240 and confidence. The researchers used the degree 241 of easiness to investigate network entrepre- 242 neurs' perception of the difficulties conducting 243 activities (e.g., introducing business 244 opportunities to prospects and selling products 245 to customers). Confidence was used to investi- 246 gate network entrepreneurs' assurance in oper- 247 ating their business successfully.

SCT suggests that an individual's self-efficacy 249 is related to the attainments of others in that 250 "seeing or visualizing people similar to oneself 251 perform successfully typically raises efficacy 252 beliefs in observers that they themselves possess 253 the capabilities to master comparable activities" 254 (Bandura 1997, p. 87). People appraise their 255 capabilities in relation to the performance and 256 attainment of others (Bandura 1997); that is, 257 social comparison operates as a primary factor 258 in the self-appraisal of capabilities (Bandura 259 1997). Therefore, Chinese immigrants' self- 260 efficacy in establishing successful NMBs is 261 affected by their social environment.

The philosophy of "anyone can do it" promoted in NMOs (Biggart 1989; Pratt 2000) has attracted many inexperienced Chinese immigrants to NMBs in their new home countries (Lin 2007). To equip inexperienced network entrepreneurs with the required business knowledge and skills, training programs are provided and peer support/influence is encouraged within NMOs (Sparks and Schenk 2006).

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The training programs offered by NMOs provide two sources for trainees to raise their selfefficacy. First, they provide opportunities for trainees to be exposed to successful network marketers and obtain vicarious experiences (Bandura 1986). Second, they let trainees practice business skills and gain knowledge to obtain mastery experience (Bandura 1986). Vicarious experiences and mastery experiences are two sources of self-efficacy (Bandura 1997). Therefore, we argue that the training programs offered by NMOs positively impact on Chinese immigrant network entrepreneurs' self-efficacy. This argument implies that the influence of the social environment in an NMO positively affects Chinese immigrant network entrepreneurs' selfefficacy. Thus, the following is hypothesized:

H1: The influence of the social environment (training, peer influence, and perceived cobesion) is positively associated with immigrant network entrepreneurs' self-efficacy in conducting NMB activities.

Network entrepreneurs who possess a high level of self-efficacy will stay in their business longer (Bandura 1997). Individuals tend to avoid tasks in which they have low self-efficacy and, conversely, are drawn toward tasks for which they have high self-efficacy (Bandura 1986; Forbes 2005). However, self-efficacy is not fully sufficient to encourage immigrants to conduct NMBs if they do not have the desire for the opportunity (Krueger 1993). Desire for profitable opportunities is an important trait of entrepreneurs (McMullen and Shepherd 2006). Following Krueger (1993), a network entrepreneur's desire for opportunity is defined as the degree to which he/she finds the prospect of conducting an NMB to be attractive; in essence, it reflects one's desire for opportunities derived from an NMB. This desire can be influenced by group norms (Sekerka and Bagozzi 2007) and the social environment (Malhotra 2010).

Within NMOs, social events are hosted regularly and successful network entrepreneurs

share their personal stories in an emotional 315 manner with others to promote entrepreneurial 316 opportunities derived from NMBs in NMOs 317 (Biggart 1989; Sparks and Schenk 2006). The 318 general impression of network entrepreneurs is 319 of a group of disadvantaged people who are apt 320 to be influenced by such entrepreneurship pro- 321 motions (Kuntze 2001). Immigrants are com- 322 monly considered to be disadvantaged in terms 323 of pursuing employment opportunities in their 324 host country (Chaganti and Greene 2002). Chi- 325 nese immigrants' desire for opportunities is 326 influenced by the social environment of NMOs 327 (Lin 2007) as they use the social events as an 328 opportunity to socialize with others from similar 329 cultural backgrounds. Adopting a SCT lens, this 330 study expects the influence of the social envi- 331 ronment in NMOs to be positively related to 332 immigrant network entrepreneurs' desire for 333 opportunities derived from conducting NMB 334 activities. The following therefore, 335 is, hypothesized: 336

H2: The influence of the social environment is positively associated with immigrant network 337 entrepreneurs' desire for opportunity.

TPB (Ajzen 1991) and the literature on entre- 339 preneurial intention (Krueger 2000) suggest that 340 entrepreneurial intention is determined by both 341 self-efficacy and the desire to pursue entrepre- 342 neurship. Entrepreneurial intention is the single 343 best predictor of entrepreneurial action (Carsrud 344 and Brannback 2011; Choo and Wong 2006). 345 Furthermore, an individual's beliefs in his/her 346 efficacy influences the course of action he/she 347 chooses to pursue, how much effort he/she puts 348 into the given endeavors, and how long he/she 349 perseveres in the face of obstacles and failures 350 (Bandura 1997). Self-efficacy is also associated 351 with entrepreneurship (Trevelyan 2011). Self- 352 efficacy has been found to be a determinant of 353 the extent of on-going involvement with net- 354 work marketing activities by network entrepre- 355 neurs (Dai, Wang, and Teo 2011). Thus, the 356 following hypothesis is proposed:

H3: There is a positive relationship between immigrant network entrepreneurs' efficacy and actions undertaken in conduct- 359 ing NMB activities.

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TPB suggests that attitude is the first determi- 361 nant of behavioral intentions (Carr and Sequeria 362 2007). Attitude represents the attractiveness of 363 behavior (Ajzen 1991) and is one of the best predictors of desire (Armitage and Conner 2001). Attitude has also been defined by Krueger (2000) as the desire to pursue an entrepreneurial opportunity by starting a new venture.

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Although previous research on entrepreneurial intention (Krueger 2000) has not addressed the relationship between desirability and entrepreneurial action, we argue that the desire for entrepreneurship is positively related to entrepreneurial actions (Choo and Wong 2006). As can be seen by SCT, an individual's desire for opportunity is regarded as a personal and cognitive factor (Bandura 1986) while entrepreneurial action is considered a behavioral factor. These two factors have a reciprocal relationship (Bandura 1986), which means the higher the level of desire for opportunity an individual has, the more actions he/she will undertake in conducting his/her NMB activities. Therefore, the following is hypothesized:

H4: There is a positive relationship between immigrants' desire for opportunity and actions undertaken in conducting NMB activities.

Bandura (1986) argues that actions that bring rewards are generally repeated, whereas those that bring unrewarding or punishing outcomes tend to be discarded. Social reactions are the predictors of primary consequences: people will do things for the approval of others and refrain from actions that arouse the wrath of others (Bandura 1986). Individuals are affected by rewards and punishments (Noe 1986; Taormina and Lao 2007); therefore, this research argues that an individual's motivation to pursue his/her goals is affected by the influence of the social environment.

Symbolic Self-Completion Theory can be used to explain the reasons why network marketers engage in their businesses. This theory argues that important symbols (such as indicators of self-definition) are used by individuals to define themselves as competent and accomplished (Wicklund and Gollwitzer 1981). Kuntze (2001) claims that network marketers are entrepreneurial dreamers rather than real entrepreneurs, because they are motivated extrinsically to pursue the title of entrepreneurship over actually doing what it entails. Therefore, extrinsic motivation is an aspect of motivation for Chinese immigrants to conduct an NMB.

The literature also suggests that successful 416 network marketers are motivated intrinsically 417 (Groß 2010) to pursue entrepreneurship (Lin 418 2007; Sparks and Schenk 2006). The need to 419 establish a successful business (Lin 2007), need 420 for identification (Sparks and Schenk 2006), and 421 spiritual satisfactions (Groß 2010) are traits 422 identified among successful network marketers, 423 which are similar to entrepreneurial traits (such 424 as the need for achievement, the need for inter- 425 nal locus of control, and the need for autonomy) 426 identified by previous studies (Collins, Hanges, 427 and Locke 2004). All of these are examples of 428 intrinsic motivation (Ryan and Deci 2000), 429 which "refers to doing something because it is 430 inherently interesting or enjoyable" (Ryan and 431 Deci 2000, p. 55). Therefore, we argue that Chinese immigrants possess a level of intrinsic 433 motivation which is essential in conducting 434 NMB in the host country.

Researchers explain the main reason immi- 436 grants pursue self-employment businesses in 437 their new country is because of their lack of 438 advantages in the labor market caused by their 439 inadequacy in their new home country's lan- 440 guage, their lack of education and specific 441 career-related skills, and the depreciation of 442 human capital (Sequeira and Rasheed 2006). 443 These explanations are supported by the literature on necessity entrepreneurship (Bergmann 445 and Sternberg 2007). Necessity theory suggests 446 immigrant entrepreneurs are pushed into entre- 447 preneurship because they have no better 448 choices for working or making a living (Henrek- 449 son 2005). NMOs promote themselves as an 450 opportunity for ordinary individuals who lack 451 resources and/or required skills to establish 452 their own small businesses (Biggart 1989). 453 Therefore, the attractiveness of an NMB is 454 another factor that motivates Chinese immi- 455 grants to pursue NMBs.

Thus, we argue that the motivation for Chinese immigrants to pursue NMBs is composed 458
of extrinsic and intrinsic motivation. The present 459
study defines the motivation for individuals to 460
pursue NMBs as internal and external factors 461
that stimulate the desire and energy of network 462
entrepreneurs to be continually interested and 463
committed to NMBs. This motivation is affected 464
by the influence of the opcial environment of 465
the NMO (Bandura 19)
In this study, the following hypothesis is proposed:

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H5: There is a positive relationship between the influence of the social environment within an 468

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NMO and immigrant network entrepreneurs' motivations in conducting their activities.

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Researchers suggest individuals with a strong need for achievement are more likely to seek entrepreneurial opportunities (Zhao and Seibert 2006). This need for achievement can be expressed as a desire to be successful in a competitive situation (Rahman and Rahman 2011). Therefore, the following hypothesis proposed:

H6: There is a positive relationship between immigrant network entrepreneurs' motivation and their desire for opportunities.

Bandura (2001) asserts individuals select a course of action within their perceived capabilities. An individual's level of motivation is based more on what he/she believes than on what is objectively true (Bandura 1997); therefore, the present study argues that there is a positive relationship between self-efficacy and motivation. This argument is supported by empirical studies in the area of workplace training (Tai 2006; Tracey et al. 2001). Tai (2006) demonstrated that a trainee's self-efficacy belief is positively influenced his/her motivation to learn. Tracey et al.'s (2001) study showed that trainees' pretraining self-efficacy positively influences their pretraining motivation to learn. Thus, this study argues motivation is positively related to selfefficacy. Therefore the following hypothesis is proposed:

H7: There is a positive relationship between the self-efficacy of immigrant network entrepreneurs and immigrant network entrepreneurs' motivation.

Our literature review suggests that the operations of an NMB are composed of collective oriented operations and individual oriented operations (Sparks and Schenk 2001, 2006). In the collective oriented operations, network entrepreneurs work collectively to share their business skills and resources in operating their NMBs (Bhattacharya and Mehta 2000). The main purposes of the collective oriented operations are to motivate each other and train new network entrepreneurs (Sparks and Schenk 2006). In the individual oriented operations, each network entrepreneur is responsible for his/her profit and cost, which directly relates to 516 business activities such as sales, new member 517 recruiting, and network constructions (Lin 518 2007). The main purpose of these operations is 519 to generate income (commission) (Harris 2004). 520 Therefore, the measurement for performance 521 outcome (financial achievement) should be 522 based on individual oriented operations. The 523 present study defines performance outcome as 524 financial results achieved by individual network 525 entrepreneurs. We argue that performance out- 526 come is positively related to actions undertaken 527 in conducting NMB activities (Kuratko, Ireland, 528 and Hornsby 2001). Therefore, the following 529 hypothesis is proposed:

H8: There is a positive relationship between actions undertaken in conducting NMB activ- 531 ities and performance outcome.

## Methodology

## Sample and Data Characteristics

This study used two different sources of data: 535 perceptual data and objective performance data. 536 To make sure that the perceptual data and 537 objective performance data were matched, all 538 respondents were recruited from the same com- 539 pany. During our survey, we requested all 540 respondents to provide their unique identifica- 541 tion numbers issued by the company. With this 542 number, we were able to link the perceptual 543 data provided by each respondent to their 544 objective performance data obtained from the 545 company's database.

To ensure a representative sample, we care- 547 fully located a network marketing firm which 548 had the largest population of Chinese immigrant 549 network entrepreneurs in Australia. To collect 550 perceptual data (such as the influence of the 551 social environment, motivation, self-efficacy, 552 desire for opportunity, and actions undertaken), 553 questionnaires were randomly distributed and 554 personally collected at the front door of the net- 555 work marketing company's major training ven- 556 ues in the states of New South Wales, Victoria, 557 and Queensland. All respondents were volun- 558 teers. With the permission of the network mar- 559 keting firm and institutional ethics clearance, 560 objective performance data were obtained from 561 the company's database. The characteristics of 562 the sample are summarized and presented in 563 Table 1. It was found that most of the respond- 564T1 ents were socially disadvantaged individuals 565

# Table 1 Demographic Characteristic of Sampled Chinese Network Marketers

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Characteristics **Percentage** Gender Male 26.4 Female 73.6 Marital status Single (Including Divorced) 16.7 Married (Include De Facto) 77.5 Divorced 5.8 Age 18 - 3016.3 31 - 4021.6 41 - 5040.5 51-60 16.7 >60 4.9 Education School Certificate and 26 Post School Diploma Bachelor Degree 48.5 Post Graduate 4.9 Certificate/Diploma Master Degree 12.8 PhD Degree 2.6 English competency Don't Speak 9.7 English At All 39.2 Some English Competent Proficient 8.4

(for instance, 73.6 percent of the respondents were females, and less than 10 percent could speak English proficiently). This finding is consistent with other studies (e.g., Biggart 1989; Lin 2007) which argue that NMOs provide "an empowering tool" to socially disadvantaged individuals to pursue entrepreneurship.

#### **Measures**

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Sample Size

Both validated and newly developed scales were used in the current study. The procedures set out in Turker (2009) to develop new scales and confirm existing ones were followed. The process included four focus groups and a pilot study. The participants in the focus groups were

Chinese immigrant network marketers who had 580 been in an NMB for more than three years and 581 built solid businesses (note: these participants 582 were excluded from the path analysis). Each 583 focus group had between six and eight partici- 584 pants. A pilot study was then conducted with 32 585 experienced Chinese immigrant network mar- 586 keters (7 males and 25 females). The findings 587 obtained suggested all items described were 588 properly understood by participants, but the 589 instructions for how to answer the questions 590 were reworded. Exploratory factor analysis 591 (EFA) was undertaken to identify and validate 592 the scales used to measure the constructs in the 593 path model. Confirmatory factor analysis (CFA) 594 was then undertaken to examine the reflective 595 scales. Sample items, together with the internal 596 reliability coefficients, where appropriate, are 597 reported in Appendix. Figure 2 shows the 598F2 hypothesized path model.

Motivation (Formative Scale). In the current 600 study, motivation for conducting an NMB was 601 operationalized as a formative, second-order, 602 latent construct. It comprised two first-order 603 latent constructs (intrinsic and extrinsic motivation). The study utilized the scales developed by 605 Kuntze (2001) to operationalize extrinsic (11 606 items) and intrinsic (9 items) motivation.

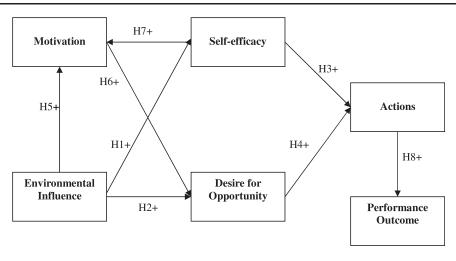
Influence of social environment (formative 608 scale): Following Sparks and Schenk (2001, 609 2006) and Biggart (1989), "influence of social 610 environment" comprise three reflective dimensions (training, peer influence, and perceived 612 cohesion). Following Sparks and Schenk (2001, 613 2006), four items were used to measure cohesion and seven items were used to measure 615 peer influence. Training was measured with the 616 five-item scale from Dai, Wang, and Teo (2011).

Self-Efficacy (Reflective Scale). Items used to 618 measure self-efficacy in this study were adopted 619 from Dai, Wang, and Teo (2011) and they com- 620 prised two "dimensions": degree of easiness and 621 confidence. Results of the CFA indicated a good 622 fit ( $\chi^2 = 34.57$ , df = 19, p = .02, CFI = 0.98, 623 RMSEA = 0.07). Convergent and discriminant 624 validity were established.

Desire for Opportunity (Reflective Scale). As 626 there were no existing scales which measure 627 NMO's desire for opportunity in the literature, 628 we adopted Krueger's (1993) measurement of 629 desirability which contains three subscales 630 (love, enthusiastic, and tense) to operationalize 631

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# Figure 2 Hypothesized Model



"desire for opportunity" scale. EFA showed that desire for opportunity comprised three factors, namely love/enthusiastic, tense, and business attractiveness subscale (four items) was adopted from Dai, Wang, and Teo (2011). This construct had good fit ( $\chi^2 = 57.766$ , df = 40, p = .03, CFI = 0.99, RMSEA = 0.05), and convergent and discriminant validity were established.

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Actions Undertaken (Reflective Scale). Following Dai, Wang, and Teo (2011), the actions undertaken by network marketers were measured with seven items. The actions were comprised of the number of hours spent on business activities weekly, and the number of presentations and sales conducted weekly and monthly.

Performance Outcome. An objective performance indicator was used as the dependent variable. This was operationalized by computing the natural logarithm of the average weekly financial income earned by the respondent in the past 10 weeks. The data were obtained from the network marketing firm's accounting records.

#### **Measurement Analysis**

Considering a substantial proportion of the study's model was constructed with unobservable variables measured by formative indicators, Partial Least Square (PLS) modeling was chosen as the statistical technique (Haenlein and Kaplan 2004). PLS allows for the examination of both

latent and manifest variables simultaneously. 662 PLS deals effectively with reflective and formative scales, it is distribution free, and is a powerful instrument for analyzing small samples (Chin 665 1998). Although the measurement and structural 666 parameters are estimated together, a PLS model 667 is analyzed and interpreted in two stages: the 668 assessment of the reliability and validity of 669 the measurement model, and the assessment of 670 the structural model. This sequence ensures 671 that the constructs measured are valid and reliable before attempting to draw conclusions 673 regarding their relationships to one another 674 (Brettel and Rottenberger 2013).

Tables 2 and 3 show the details of the analy- 676T2 T3 sis of the dimensionality, reliability, and validity 677 of the scales. First, the study examined items 678 and subconstruct reliability according to load- 679 ing. Although one item from action and one 680 subconstruct from motivation had loading val- 681 ues less than 0.7, they were not eliminated as 682 they were formative indicators (Petter, Straub, 683 and Rai 2007). In addition, the average variance 684 extracted (AVE) of the construct were greater 685 than the critical value of 0.5 (Fornell and 686 Larcker 1981). Therefore, the convergent valid- 687 ity of the construct was satisfactory. The com- 688 posite reliability of all scales was greater than 689 the recommended value of 0.6 (Bagozzi and Yi 690 1988; Fornell and Larcker 1981).

A criterion to confirm discriminant validity is 692 that the square root of a construct's AVE should 693

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Table 2 Reliability and Validity of the Measurement Model<sup>a</sup>

	Loading	<i>t</i> -Value	Composite Reliability	AVE
Actions			0.91	0.59
Hours per week devoted to distributorship work	0.85	51.45		
Hours per week devoted to presenting products and business opportunities to others	0.86	45.54		
Hours per week devoted to motivating and training new network marketers	0.84	36.32		
Hours per week devoted to learning business skills and knowledge	0.66	13.13		
Hours per week devoted to customer services	0.71	15.00		
Number of presentations conducted per week	0.76	24.46		
Number of sales workshops held per month	0.65	15.74		
<b>Desire for Opportunity</b>			N/A	N/A
Tense (Three items)	0.81	19.16		
Love/Enthusiastic (Four items)	0.89	40.45		
Establishing Business (Four items)	0.39	4.37		
Self-efficacy			0.85	0.75
Degree of Easiness (Four items)	0.82	21.60		
Confidence (Four items)	0.91	51.80		
Influence of Social Environment			N/A	N/A
Cohesion (Four items)	0.75	N/A		
Peer Influence (Seven items)	0.79	N/A		
Training (Five items)	0.86	N/A		
Motivation [formative]			N/A	N/A
Intrinsic Motivation (Nine items)	0.72	N/A		
Extrinsic Motivation (11 items)	0.43	N/A	. 6	

<sup>&</sup>lt;sup>a</sup>N/A, not applicable as these are formative constructs.

be greater than its bivariate correlation with other constructs in the model (Fornell and Larcker 1981). Table 3 shows that the discriminant validity was satisfied as the square root of the AVEs was greater than the intercorrelation coefficients. The formative construct for multicollinearity was also tested using variance inflation factors (Diamantopoulos and Winklhofer 2001), and in all cases, as the values were below the cutoff threshold of 3.33, multicollinearity was of no major concern (Cenfetelli and Bassellier 2009).

## Results

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#### **Evaluation of Structure Model**

Model estimation was undertaken utilizing *SmartPLS 2.0* (Ringle, Wende, and Will 2005). Figure 3 shows the results. The significance of

the coefficients was obtained by means of a 711 bootstrap of 1,000 subsamples (Chin 1998). To 712 further estimate the structural model, global cri-713 terion of goodness of fit (GoF) index (Tenen-714 haus et al. 2005) was computed. A GoF index of 715 0.444 indicated that the data had a high level 716 GoF with the model (Wetzels, Odekerken-717 Schröder, and Oppen 2009, p. 187).

#### **Testing of Hypotheses**

Table 4 summarizes the results obtained in 720 T4 the testing of the hypotheses. The path leading 721 from the influence of social environment to self-722 efficacy was positive and statistically significant 723 ( $\beta = 0.30$ , t = 3.19,  $\rho < .01$ ). Hence, H1 was sup-724Q13 ported. The path from the influence of social 725 environment to desire for opportunities was 726 positive and statistically significant ( $\beta = 0.47$ , 727 t = 8.10,  $\rho < .001$ ), thus providing support for 728

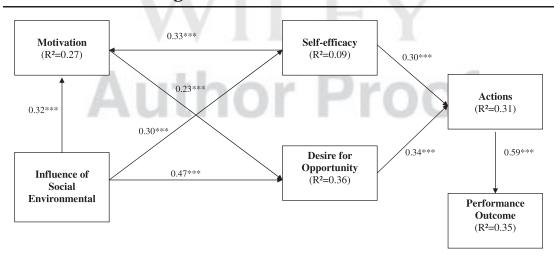
Table 3
Means, Standard Deviations, and Correlations<sup>a</sup>

	Mean	S.D.	α	1	2	3	4	5	6
1. Actions Undertaken	17.18	6.22	0.91	0.77					
2. Desire for Opportunity	60.56	8.05	0.75	0.44***	0.73				
3. Self-Efficacy	33.01	7.90	0.85	0.44***	0.42***	0.86			
4. Influence of Social Environment <sup>b</sup>	43.61	4.89	-	0.23***	0.54***	0.26***	1.00		
5. Motivation <sup>b</sup>	67.44	12.11	_	0.30***	0.42***	0.42***	0.40***	1.00	
6. Performance Outcome (log)	4.66	1.55	-	0.58***	0.37***	0.31***	0.15*	0.14*	1.00

<sup>&</sup>lt;sup>a</sup>Diagonal values show the square of the AVE for reflective scales.

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Figure 3
Significance of Path Estimates



\*\**p* < .01; \*\*\**p* < .001.

H2. H3 was supported as there was a positive and statistically significant path from self-efficacy to actions ( $\beta = 0.30$ , t = 3.72,  $\rho < .001$ ). The path from desire for opportunities to action was found to be positive and statistically signifi-

cant ( $\beta$  = 0.34, t = 4.77,  $\rho$  < .001), thus H4 was supported. The path from the influence of social

supported. The path from the influence of social environment to network entrepreneur's motiva-

tion was found to be positive and statistically 737 significant ( $\beta$  = 0.32, t = 4.71,  $\rho$  < .001), thus H5 738 was supported. The path from network entre-739 preneurs' motivation to the desire for opportuni-740 ties was found to be positively and statistically 741 significant ( $\beta$  = 0.23, t = 3.19,  $\rho$  < .001), thus H6 742 was supported. H7 was supported, as the path 743 from self-efficacy to network entrepreneurs' 744

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<sup>&</sup>lt;sup>b</sup>Denotes formative scales.

<sup>-,</sup> not applicable.

<sup>\*</sup>p < .05.

<sup>\*\*</sup>p < .01.

<sup>\*\*\*\*</sup>p < .001.

Table 4 **Results of Hypotheses Tests** 

	Path Coefficients	t-Statistic	ρ-Value
H1: Influence of Social Environment → Self-Efficacy	0.29	4.76	***
H2: Influence of Social Environment → Desire for Opportunity	0.42	8.10	***
H3: Self-Efficacy $\rightarrow$ Actions	0.30	3.72	***
H4: Desire for Opportunity → Actions	0.34	4.77	***
H5: Influence of Social Environment → Motivation	0.32	5.77	***
H6: Motivation → Desire for Opportunity	0.25	3.19	**
H7: Self-Efficacy → Motivation	0.33	4.71	***
H8: Actions → Performance	0.59	16.09	***

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motivation was positive and statistically significant ( $\beta = 0.33$ , t = 5.77,  $\rho < .001$ ). The path from action to performance outcome was found to be positive and statistically significant ( $\beta = 0.59$ , t = 15.68,  $\rho < .001$ ), hence H8 was supported.

### Discussion and Conclusion

NMOs provide "an empowering tool" to socially disadvantaged individuals, such as females (Biggart 1998) and immigrants (Lin 2007), and motivate them to pursue entrepreneurship via NMB and take charge of their own life. This study aimed to examine the factors influencing the performance outcome of Chinese immigrants in NMBs. The findings suggested that the performance outcome of Chinese immigrant network marketers was influenced by the actions they undertook when conducting NMB activities. According to the findings, the more actions that were undertaken, the better was the performance outcome achieved. The analysis also suggested the actions undertaken were connected to Chinese immigrant network marketers' self-efficacy, their desire for opportunity from an NMB, their motivation to conduct NMB activities, and the influence of the social environment in NMOs. The results indicated that an increase in self-efficacy and the desire for opportunity increased the number of actions undertaken. The results also indicated that desire for opportunity was positively affected by the influence of the social environment within NMOs, and this desire for

opportunity was affected by the motivation to 777 conduct NMB activities. It appeared that motivation to conduct NMB activities was also posi- 779 tively affected by the influence of the social 780 environment and self-efficacy.

The findings obtained in this study corrobo- 782 rate those in the literature and have several 783 important theoretical and practical implications. 784 The study shows that network marketers work 785 together in a cohesive manner, despite being 786 responsible for their individual profit and cost 787 (Biggart 1989). Also in support of the literature 788 (see Biggart 1989; Sparks and Schenk 2006), it 789 was found that ethnic Chinese network market- 790 ers work together by influencing and training 791 each other in the required capabilities. The 792 social environment within NMOs positively 793 influences network marketers' motivation, self- 794 efficacy and desire for opportunity, thus provid- 795 ing support for Bandura's (1986) SCT.

This study demonstrates that the self-efficacy 797 and desire for opportunity of Chinese network 798 marketers positively influence their actions in 799 pursuing NMB activities. This finding is consistent with the ethnic entrepreneurship model pro- 801 posed by Krueger (2000). The study also 802 demonstrates that marketers' activities lead to a 803 higher level of objective performance outcome, 804 a finding that corroborates the findings of Kur- 805 atko, Ireland, and Hornsby (2001), Sparks and 806 Schenk (2006), and Lin (2007).

The present study provides empirical support 808 for understanding the antecedents and conse- 809 quences of NBM participation by Chinese 810

<sup>\*</sup>p < .05.

<sup>\*\*</sup>p < .01.

p < .001.

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immigrants in Australia. The findings suggest that the social environment has a positive influence on network marketers' desire for opportunity, and the positive influence of the social environment on motivation is positively mediated by network marketers' self-efficacy. The findings also suggest that self-efficacy and desire for opportunity positively affect actions undertaken, which in turn positively determine performance outcomes.

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The present study provides new theoretical insights. First, a contribution to the literature is made by showing the influence of the social environment on the desire for opportunity. This finding shows that there is support for SCT (Bandura 1986). SCT suggests that environmental events, behavior, and personal factors all operate as interacting determinants of each other. This study presents specific definitions of environmental events as they influence the social environment, which is comprised of three subfactors: training, peer influence, and cohesion. The study also defines the specific meanings of behaviors and personal factors as motivation, desire for opportunities, and NMB specific self-efficacy. These findings show how the influence of the social environment within NMOs positively impacts on the desire for opportunity and supports SCT (Bandura 1986). One of this study's contributions to Bandura's (1986) study is that it provides empirical evidence to demonstrate environmental events (influence of social environment) and determines behaviors (motivation and desire for opportunity). The other contribution made is that the study provides empirical evidence to show that the personal factor (self-efficacy) determines the behavior (motivation).

The present study shows that entrepreneurial intention is the single best predictor of entrepreneurial action (Choo and Wong 2006). The entrepreneurial actions undertaken in the context of NMBs can be predicated by the desire for opportunity and self-efficacy. This study provides empirical evidence to support this argument and contributes to the findings of the studies of Krueger, Reilly, and Carsrud (2000) and Choo and Wong (2006).

This study integrates SCT (Bandura 1986) with TPB (Ajzen 1991) to explain the relationships between the influence of the social environment and self-efficacy, the desire for opportunity, and actions undertaken in the context of NMOs that have so far been elusive. Previous researchers suggest that

marketers are independent small business owners (Biggart 1898; Harris 2004), but they work 847Q14 collectively in operating their businesses under 868 the cohesive social environment within the 869 NMO (Sparks and Schenk 2006). This study sug- 870 gests that training and peer influence within the 871 cohesive social environment of an NMO raises 872 network marketers' self-efficacy and desire for 873 opportunity, which in turn increases the actions 874 undertaken and leads to better performance 875 outcomes.

The model developed in this study suggests 877 if individuals work together in a group and 878 form a social environment characterized by 879 training, peer influence, and cohesion, then 880 they will be more motivated and their self- 881 efficacy and desire for opportunity to be suc- 882 cessful will be at a higher level. As a result, individuals will develop the competence to take the 884 necessary actions in conducting their business 885 activities.

Individual network marketers may also gain 887 benefits from this study. This study suggests 888 that network marketers should work with others 889 to create a favorable social environment within 890 NMOs when they are building their own NMBs. 891 In addition, immigrants who lack resources may 892 be informed by this study to establish their own 893 NMB using the collective power of immigrants.

A NMB is a home-based business (Biggart 895 1989); hence, most of the business owners are 896 housewives who need to look after their fam- 897 ily's lives as well their business (Biggart 1989). 898 The female dominant sample implies that the 899 findings obtained in the present study reflect 900 the truth of the network marketing industry 901 (World Federation of Direct Selling Association 902 2014). However, to generalize these findings to 903 non-network marketing industry more 904 research/theorizing should be undertaken.

#### **Managerial and Practical Implications**

The present study provides several manage- 907 rial and practical implications. First, the results 908 obtained may assist managers of NMBs to 909 understand the behaviors of their network mar- 910 keters in operating their businesses. With such 911 an understanding, managers can invest in proj- 912 ects that train ethnic Chinese network marketers 913 to conduct an NMB. This will allow the creation 914 of a cohesive social environment, which is 915 essential for improving the confidence and com- 916 petence of network marketers. This cohesive 917 social environment will reinforce the self- 918 efficacy and confidence of these immigrants in 919

undertaking entrepreneurial activities in a coun-920 921 try dissimilar to their country of origin. Network marketers may gain potential benefits from this 922 study. Some network marketers dislike partici-923 pating in business events (Pratt 2000) because 924 they cannot perceive the values of these events. 925 By learning from the findings from the present 926 study, these network marketers may be more 927 willing to work together with other network 928 marketers, such as learning business skills and 929 930 becoming more confident in running their NMB.

## **Limitations and Future Study Implications**

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Despite specific contributions made, this study has its limitations. First, the sample was limited to Chinese immigrants in selected Australian states (New South Wales, Queensland, and Victoria). To generalize the findings of this study, more studies with heterogeneous samples, such as network entrepreneurs from other ethnicities and different host countries, should be examined. Like all cross-sectional research, the primary data in the current study was collected at a single point in time with a survey questionnaire. Therefore, the current research cannot explain the effect of time on the relationship posited in the model (Bryman and Bell 2007).

It is important that future research continues in this direction with further extension of the current study. Future research may consider moderating or mediating factors such as social skills to extend the current model. Social skills are an individual's ability to successfully interpret and manage social interactions (Witt and Ferris 2003). They allow individual network marketers to participate cohesively in the social environment of NMBs.

In summary, the current study has sought to identify the factors that determine the performance of Chinese immigrants in NMOs. Results of the path analysis provide support for integrating the SCT with a TPB lens to show the positive effects of the social environment within NMOs in influencing the self-efficacy and desire for opportunity and motivation of Chinese network marketers, and the continued participation in NMB activities. Together, these were found to positively result in a higher level of performance outcomes. The current study contributes to a better understanding of the management of NMOs.

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# Appendix: Sample Items Used in the Questionnaire Influence of Social Environment [Formative Scale]

For each statement below, 1 = strongly dis-1232 agree ... 5 = strongly agree

- (1) Peer influence (reflective subscale, 1234  $\alpha = 0.91$ ) 12% Q24
  - My sponsor and other uplines lead by 1236 "doing" rather than "telling" 1237
  - My sponsor and other uplines are an 1238 excellent source of information about 1239 being a successful member of this NMO 1240

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12AQ23

1241	(2) <i>Training</i> (reflective subscale, $\alpha = 0.87$ )	For each statement above, $1 = \text{not enthusias}$ -1279
		tic at all $5 = \text{very enthusiastic}$ 1280
1242	<ul> <li>Training provided by this NMO is essen-</li> </ul>	(2) Tense (reflective subscale, $\alpha = 0.91$ ) 1281
1243	tial for me to operate my NMB	
1244	• The training I receive in this NMO is	• How tense would you be in sharing the 1282
1245	effective	opportunity of the NMB with others? 1283
1246	(3) <i>Cohesion</i> (reflective subscale, $\alpha = 0.81$ )	• How tense are you in conducting your 1284
	, , ,	current NMB? 1285
1247	• The members of my organization are	For each statement above, $1 = \text{not tense}$ at 1286
1248	very cooperative with each other	all $5 = \text{very strongly tense}$
1249	<ul> <li>There is a great deal of trust among fel-</li> </ul>	(3) Business Attractiveness (reflective sub-1288
1250	low members in my organization	scale, $\alpha = 0.79$ )
1252	Self-Efficacy [Reflective Scale]	• To start up my own business without 1290
1253	(1) Degree of easiness (reflective subscale,	financial pressure 1291
1254	$\alpha = 0.89$ )	• To start up my own small business with 1292
1-/1	w 0.0/)	the lowest investment and risks 1293
1255	• How easy do you think it would be to	
1256	introduce your current NMB to others?	
1257	How easy do you think it would be to	
1258	sell the products to others?	<b>Motivation [Formative Scale]</b> 1294
	1	For each statement below, "1" = it is not a 1295
1259	E	motivation for me at all " $5$ " = it is a very 1296
1260	For each statement above, $1 = \text{very difficult}$	important motivation for me. 1297
1261	5 = very easy	
1262	(2) Confidence (reflective subscale, $\alpha = 0.86$ )	(1) Extrinsic motivation (formative subscale) 1298
1263	• Do you know enough to conduct a	To make a lot of manage 1200
1264	NMB?	<ul> <li>To make a lot of money</li> <li>To have influence over and create a 1300</li> </ul>
1265	How sure are you of yourself in com-	
1266	municating with others effectively?	positive impact upon my community 1301
1200	manicating with others effectively.	(2) Intrinsic motivation (formative subscale) 1302
1267		
1268	For each statement above, $1 = \text{not confident}$	• For personal accomplishment 1303
1269	at all $\dots$ 5 = very confident	• To have fun
1270	<b>Desire for Opportunity [Reflective Scale]</b>	
1272	(1) Love and enthusiastic (reflective subscale,	A
1273	$\alpha = 0.87$ )	Actions Undertaken [Reflective Scale] 1309
		- House non wools deviated to distribute which 1207
1274	• I would love to conduct my current	<ul> <li>Hours per week devoted to distributorship 1307 work</li> </ul>
1275	NMB	<ul> <li>Number of presentations conducted per 1309</li> </ul>
1276	<ul> <li>How enthusiastic would you be in shar-</li> </ul>	week 1310
1277	ing the products sold by this NMO with	WCCR 1310
1278	others?	

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