A multi-level model of global decision-making: Developing a composite global frame-of-reference

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1. Introduction

The globalization of markets has occurred at a faster pace than experts such as Ilinitch, Lewin, and D’Aveni (1998), Harvey and Novicevic (2002) anticipated. This unanticipated change has fundamentally altered the effectiveness of managers’ decision-making and decision processes employed since the industrial revolution (Farazmand, 2004; Sterman, 1989). The changes occurring in the global business landscape have resulted in a “winner’s curse” where managers who were successful in the past are finding it increasingly difficult to repeat their success. We contend that the changes to the global business landscape necessitate a fundamental adjustment to our understanding of managerial decision-making.

The issue of understanding managerial decision-making has been a central focus of business research for decades (Gilovich, Griffin, & Kahneman, 2002; Jensen & Kolb, 2000; Kahneman, 2003; Kolb, 1978; Singh, Vitell, Al-Khatib, & Clark, 2007). Researchers have gained insights into managerial cognitions from an individual perspective, adding insight to the internal factors, such as bounded rationality used by decision makers (cf., Aharoni & Tihanyi, 2009; Gilovich et al., 2002; Kahneman, 2003), which influences the framing of managerial decisions. The concept of bounded rationality (e.g., global decision makers are imperfect information processors who strive to follow rational models but depart from rational decision-making process to avoid cognitive overload and/or the lack of complete information) addresses the need to organize information to allow decision makers to make knowledgeable decisions given the complexity of organizational as well as external environments (Aharoni & Tihanyi, 2009; Ethiraj & Levinthal, 2004). The dynamic pace of change in today’s global marketplace has created even greater challenges for global decision makers that necessitate the modification of rational decision-making models; that heretofore have not been explored extensively in the literature.

Bounded rationality addresses the limitations of global decision makers’ ability to address the complexity of making decisions in a global context and their tendency to make satisficing decisions (March & Simon, 1958; Simon, 1962). Specifically, higher-level factors, such as group, organizational, and society reference points, can have a significantly greater influence on managerial decision-making in the globalized business environment today than in the past. It is through the incorporation of a set of reference points (e.g., derived from the group, organizational, and societal levels) in conjunction with the individual global managerial decision-making points of reference, that a more holistic understanding of the global decision-making process can be gained. In addition, it is argued that the decision maker must recognize the various relevant reference points when making complex global decisions.
The purpose of this research is to provide a theoretical foundation for understanding effective decision-making in the new era of globalization. Reference Point Theory (RPT) supports a bounded rationality decision-making framework for global managers. Using RPT as the conceptual anchor for global decision-making, we examine how individual managers’ can make more efficient global decisions through the use of group(s), the organization, and societal points-of-reference. The model provides a theoretical advance in capturing managerial cognitions based upon the decision makers’ bounded rationality supported by RPT.

1.1. The application of Reference Point Theory to global decision-making

Reference Point Theory (RPT) can be useful perspective when examining bounded rationality of managers’ global decision-making (Fiegenbaum, Hart, & Schendel, 1996). This framing issue is of particular value when making decisions for the first time or when there is inadequate decision-making history to make informed decisions. The basic premise of RPT is that global managers need to match the global environment with appropriate reference points to aid decision-making. The more dynamic the environment, the greater the risk associated with misinterpreting the appropriate reference points for making global decisions (Hopfensitz & Winden, 2008; Lages & Lages, 2004).

There are three reference points that managers can use to develop a sense of an appropriate decision to be made in a particular environmental setting, those being: (1) environments that have a past orientation to time (Cohen, Eter, & Jeleva, 2008). In this situation, the manager uses past decisions as decision guideposts for making future decisions; (2) environments that have a present orientation to decision-making. These environments do not refer to past or future timeframes but rather managers base their decisions on the present environmental conditions; and (3) environments that have a future time perspective for decision-making (see Table 1). Managers recognize the changes in environmental context and provide a lens to ascertain relevant and/or irrelevant reference point perspectives for making global decisions in the future. Relative frames-of-reference may be explicit or implicit, but both will influence one’s ability/willingness to adjust their global decision-making perspective from one macro-environment to another.

RPT is an attempt to determine the strategic reference points of a global manager as well as certain ‘others’ that influence the reference point of the manager (Fiegenbaum et al., 1996). The dynamic reference points used by the global manager provide assistance in establishing the risk/return ratio for each decision in a global context. This hierarchical assembling of information aids the global decision-maker’s attempt to utilize a bounded rationality approach to global decision-making. The assessment of the conduciveness to adjust one’s conceptual decision-making framework when entering other environments may be based on past, present and future experiences of the global manager.

Two primary reference indices for constructing a risk assessment for adopting bounded rationality decision-making occurs on an ongoing basis as an organization are internal (i.e., group, individual managers) as well as external (i.e., differences in the macro-environments). These may be perceived as the various potential referent points which may change over a time continuum of past, present and future. Therefore, global decision-makers may use this reference point perspective to assess the various points-of-view related to strategic decisions at different points in time relative to each macro-environment (Cohen et al., 2008; Hopfensitz & Winden, 2008). Policies may be directed at modifying the global decision-making process as global managers move from one environment (i.e., both macro and organizational) to another over time.

There are potentially three models of risk-taking decision behavior of global managers relative to addressing the adaptation of global decisions. First, global decision-makers may be assumed to be risk adverse relative to making any decisions that pertain to strategic decisions. The global manager’s propensity to address the issues associated with making the adjustment in the organization’s strategic choices is reduced if the return/reward is insufficient to stimulate a willingness to undertake such risks. Other global managers may make decisions that maximize utility and, therefore, have a positive slope to the risk-taking curve (Schoemaker, 1982). Therefore, a segment of key global managers, at the same time, may be risk takers (i.e., the rewards outweigh the cost/consequences).

It has been hypothesized that global decision-makers are able to increase returns and reduce risk simultaneously by selecting an appropriate reference point for their strategic decision. In addition, to make long-run organizational decisions in an information vacuum, or not tied to some decision context (as explicit or implicit reference points), would be unrealistic and lead to suboptimal global decision-making. When global managers make decisions that are new in an unfamiliar decision context (e.g., global) they need to develop a new set of reference points upon which to base their strategic decisions (Miller & Ireland, 2005).

There is a third stream of RPT research which speculates that global decision-makers make decisions that are clearly above a reference point and at the same time make other decisions that are below the same reference point. The conclusion that can be drawn from this conceptualization of decision-making is that global managers are both risk-averse and risk-taking, depending on whether the decision-makers perceives themselves to be in a domain of gains or losses relative to changing their reference point to make complex global decisions (Fiegenbaum et al., 1996). It has been argued that the top management team level, global decision-makers become internal reference points in a specific organizational context for issues such as visualizing the concept of global time (Kahneman & Tversky, 1979). The question becomes how and which reference point managers will use when they make decisions relative to global strategic choices. This is not to assume that these global managers’ decisions are random, but rather, temporally influenced by changes in the internal organizational environment, the increased knowledge of other global organiz-

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* Group refers to groups intra-firm groups found in the parent organization and does not address external strategic group membership of the organization.

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Table 1: Reference point typology for global decision-making.
tions tolerance of a particular concept of time (i.e., past, present, or future) at a point-in-time as well as, the exact points of reference they use in their decisions.

The concept of reference points for global decision-making is based upon the psychological precept that individuals’ perception mechanisms are thought to better calculate differences, rather than absolute levels when evaluating alternatives (Festinger, 1954). In addition, decision-makers attempt to make decisions that satisfies the decision rather than to attempt to maximize global decisions. Although there are others who are concerned that there is no formal theory for determining reference points for decision-makers (Tversky & Kahneman, 1986). It is assumed the RPT can make a contribution in determining the risk-taking posture of global managers when addressing the complex, multifaceted issues associated with developing grand global strategies.

Examining the risk perspective of various global managers/stakeholders is critical but at the same time the return or “benefit” derived from reducing the level of uncertainty in the global organization is also important. The perceived payback from acting on reference point information/input relative to implementing a global plan is synchronization of global managers to a consistent understanding of the origins of their reference points. The benefits derived from reducing the conduciveness of the environment to multiple perceptions may also have long-run benefits (e.g., increased adaptation to local standards, less conflict between the employees and management, higher-level of coordination of events to local social customs). Therefore, it would seem only logical that global managers as a whole have to take a stance on global strategic plans to establish an environment that is known for being in step with local environments (e.g., thinking globally while acting locally) (Brock & Siscovick, 2007).

RPT assists global managers in calibrating their decision-making process relative to the risks associated with global strategic decisions. The rate of change taking place and the lack of relevant decision-making experience (i.e., an adequate and/or an appropriate decision frame-of-reference) in the global marketplace necessitates that global managers test and retest their reference points relative to the strategic decision-making process. This enables the global manager to maintain a set of dynamic points of reference. To gain additional insight into how RPT may be used as a means to structure global managers’ decision-making, a multi-level model of global decision-making is presented that illustrates the individual, group, organizational and societal levels as references for individual global managers. The following section of the paper illustrates such a multi-level model of global decision-making.

2. The multi-level model of global decision-making: individual, group, organizational and societal levels

There are four levels (i.e., individual, group, organizational, and societal) that can provide valuable reference points for an individual manager’s global decision-making. For a greater understanding of effective decision-making in the global context when employing RPT, it is necessary to understand the influence of the higher-level elements on the individual level. As such, the unique higher-levels need to be combined into a multi-level model of global decision-making (i.e., ‘grand’ global decision-making strategy). However, prior to delving into the higher order effects, it is important to understand the complexity of individual level global decision-making.

2.1 Individual level of global decision-making

Harvey and Novicevic (2002) argue that there are four elements in the individual decision-making level that need to be assessed to determine the decision-making capabilities of global managers, they are: (1) multiple IQs of global managers (e.g., political, network, social, emotional, cultural, innovative, intuitive, and organizational); (2) learning styles of potential global managers (e.g., accommodator, assimilator, diverger, or converger); (3) thinking styles of global managers (e.g., monarchic, hierarchic, oligarchic or anarchic); and (4) type(s) of tasks to be undertaken in particularly environmental (i.e., internal and external) settings during overseas assignment for the global manager.

First, the decision-making skills of global managers can initially start by using a set of multiple IQs as indicators of the potential diverse abilities of global decision makers. For example, global manager IQs can be grouped into three individual categories of analytical intelligence, creative intelligence, and practical intelligence as suggested by the triarchic theory of human intelligence (Sternberg, 1985, 1996) as well as a fourth called organizational intelligence (Davenport & Prusak, 1998; Sternberg & Smith, 1985; Wagner & Sternberg, 1986). Analytical intelligence is the planning, implementation, and evaluation of problem-solving processes and knowledge acquisition. Creative intelligence is the individual ability to develop innovative solutions to new problems encountered in novel environments. Practical intelligence is the individual tacit knowledge that draws on common sense, intuition, and “street-smarts” knowledge to adapt to an environment or to shape the environment to the problem at hand. Organizational IQ is that the global manager has a detailed and accurate understanding/insight as to how the organization operates both functionally and the time that is needed to accomplish goals. The employment of multiple categories of managerial IQs presents a more holistic perspective on the potential diverse abilities of global decision makers.

Second, researchers have identified a number of distinct learning styles that are used by individuals when they are attempting to understand new information. These learning styles appear to be universal with slight variations but remaining in one of four categories (Jensen & Kolb, 2000; Kolb, 1978). Kolb (1974, 1985) and Vincent and Ross (2001) have identified the learning styles of divergent, convergent, assimilating, and accommodative. Given that global managers can have different learning styles, it is important to take these differences into consideration when developing training materials and/or development sessions. It is also important to monitor learning styles for managers from different cultures in that there will be slight differences in preferences for how to learn within each learning category.

Third, thinking styles involve integrative utilization of global managers’ cognitive abilities and learning styles that affect their decision-making. Individual thinking styles have been explored and vary from single-minded driven individuals (monarchical thinking style), leaders who establish agendas and priorities (hierarchical thinking style), those that multitask and take on multiple assignments (oligarchic thinking style) and appear to be disorganized and random in their thinking, but offer highly creative solutions (anarchical thinking style) (Sternberg, 1997). Fundamental differences in the style of thinking of global managers create the need for not only adaptations of information for training, but also for the manner in which information is presented on a day-by-day basis. For, if the information presented to a manager does not fit with his/her thinking style, effectiveness is lost.

Fourth, the nature of the assignment and the type of task/skill requirements can have a significant impact on the decision-making of global managers. A manager must first determine the type of the assigned tasks that make-up his/her overseas assignment. Tasks related to overseas assignments can be coordinative (i.e., tasks that require global managers to facilitate activities between two or more entities within or outside requiring
a higher-level of cultural adjustment/awareness), computational
(i.e., tasks that require global managers to interface with systems/
computers in the organization, thereby requiring less interpersonal-
cross-cultural competencies), creative (i.e., tasks requiring a level
of curiosity and creativity) and combination (i.e., tasks that require
the manager to do more than one type of core task requiring
additional managerial skills). Most important to consider pertain-
ting to task/skill requirements is whether these occur within the
internal or external environment.

Important internal organizational environment factors that
increase the difficulty for the global manager include the problems
associated with managing in foreign hybrid organizational
environments which can be represented by combined ownership
(i.e., joint ventures, strategic alliances), the top-managements'
attitude relative to the strategic importance of the host country
operations/market, and the history of the organization’s prior
experience in the host country market. This information is
organization-specific and could have an impact on the global
managers’ ability to accomplish the task through the development
of cross-cultural competencies relative to specific objectives
during the foreign assignment (Debebe, 2008). The most salient
external environment factor to consider is the cultural distance
between the country of the global manager's assignment and the
home country of that manager (while a great deal of controversy
between the country of the global manager’s assignment and the
external environment factor to consider is the cultural distance
problems (Nemiro, 2001; Potter, Cooke, & Balthazard, 2000).

May be more contextual and complex than other organizational
permits global managers to handle a greater number of projects that
span organizational boundaries determining the efforts of a
global group/teams (Harvey, Griffith, & Russell, 2007; Townsend, DeMarie,
2000; Schein, 1996). It is important to note that group diversity is
not just observable diversity (e.g., age, gender, ethnicity, national-
ity and the like) but also ‘invisible’ diversity (i.e., emotional IQ,
political IQ; Network IQ, cultural/social IQ and the like) found in
the group (Harvey, Novicevic, & Garrison, 2005). By assessing both
different sets of diversity (i.e., visible/invisible), the decision-making
capabilities of the group can be better understood and the
expected level of quality of global decision-making estimated.

The length of time that a group has existed can be used to
evaluate the ability to effectively accomplish global decision-
making and to a lesser degree, the quality of decisions made by the
group entity. Groups that have ‘tenure’ or that represent an official
part of the organization (e.g., marketing, accounting, finance
departments), are more likely to have official standard operating
procedures that can be used in making routine decisions, if there
are such types of global decisions (Pelled, 1996; Pelled &
Eisenhardt, 1999) than groups with less tenure. While the
relationship between tenure and attaining goals is curvilinear,
the need for stature in the organization is a critical element in
developing legitimate authority in a global organization (Griffith &
Ryans, 1997). Groups that have an organizational history should
have well developed procedures/processes to accomplish tasks in
the organization due to their historic position of authority and/or
power. Groups that do not have influence, seldom remain viable in
complex organizations.

Team cohesiveness can be measured by group social capital.
Social capital is defined as an asset that is engendered via social
relations that can be employed to facilitate action and achieve
above-normal rents (Adler & Kwon, 2002; Baker, 1990; Griffith &
Harvey, 2004; Leana & Van Buren, 1999). In a global management
context, social capital has been primarily conceptualized as a
resource reflecting the character of social relations within a firm
(Kostova & Roth, 2003) that extends beyond group boundaries
providing a basis for action. Two productive underlying dimen-
sions are common to existing conceptualizations of social capital
and are germane to global group decision-making: associability
and trust (Griffith & Harvey, 2004; Leana & Van Buren, 1999).
Associability is defined as the willingness and ability of group
members to subordinate individual level goals and associated
actions to collective goals and actions (Leana & Van Buren, 1999).
The inherent subornation of individual goals through participation
in the collective however is not a relinquishment of individual
goals, but rather a restraining mechanism to accomplish group
goals. Trust is defined as when one has confidence in another
group member’s actions and intentions (Das & Teng, 1998; Leana &
Van Buren, 1999). It has been asserted that co-operative, long-term
group relationships are dependent upon the fostering of trust (Das
&Teng, 1998). Researchers have proposed that trust can be
considered in terms of a risk–reward relationship (Williamson,
1993), where predictable actions by one global group member
allows the relationship to operate more effectively. The dimen-
sions of associability and trust are both attributes of the group as
well as the individual (Griffith & Harvey, 2004). Therefore, social
capital can be conceptualized as an attribute of a collective, as well
as the sum of the individual relations.

Group creativity is thought to be the creation of a valuable/
useful, idea, procedure, or process by individuals in the group
working together in a complex social system (Woodman, Sawy,
& Griffin, 1993). While there are a number of different opinions
on what will stimulate creativity in a group, there are some commonly
held views of what promotes creativity in groups. Group creativity
is influenced by the composition of the group (e.g., creativity
characteristics/levels and group), the type of leadership that the
group has, the availability of resources needed to undertake
creative processes (e.g., information, technology to process
information, time and the like), the communication infrastructure
and group processes to facilitate communications and decision-making, the individual group member characteristics like intellectual abilities, thinking styles, motivation, personality and the like, and the environmental context of the group (Drazin, Glynn, & Kazanjian, 1993; Goncalo & Staw, 2006; Paulus, Larey, & Dzindolet, 2000; Paulus & Yang, 2000; West, 2002).

It is important to understand that global managers actively participate in groups and therefore that their individual decision-making is affected by the group level elements to which they are exposed. Given that each of these group level factors has advantages and disadvantages for effective decision-making, it becomes important for the individual manager to draw from these group elements specific reference points that can provide for optimal individual decision-making. Furthermore, the participation in groups creates multiple reference points from which a manager can draw to more effectively and efficiently make his/her decisions.

2.3. Organizational level of global decision-making

Once the influence of the group level on individual decision-making has been assessed, the next level in the multi-level model of global decision-making that needs to be addressed is that of the organization. There are similarities between group and organizational level decision-making and distinctive influences on resultant individual decision-making. For example, the degree of decision-making autonomy in the organizational unit making the global decision, the organizational context (e.g., type of ownership, control, and accountability), the stage of evolution of the organization's strategic 'outlook' (i.e., international, multinational, global) as well as ethnocentric, regiocentric, polycentric, geocentric and the time orientation of decision-makers in the global organizational unit, all influence the organization's decision-making as well as the individual global managers operating within the organization.

For example, the decision-making opportunities of operating entities in the global organization network are predicated on the level of autonomy that is given to decision makers in overseas subsidiaries. The degree to which a parent–subsidiary relationship requires interdependence influences the level of decision-making autonomy, control (Baliga & Jaeger, 1984; Dong, Zou, & Taylor, 2008), monitoring (Nilakant & Rao, 1994), and ultimately the type of governance structure (e.g., a subsidiary manager's ability to make independent decisions) when strategic decisions are implemented (Hannon, Huang, & Jaw, 1995). When low levels of interdependence are required for global decision-making between the parent and subsidiary or among subsidiaries, the subsidiary typically has a great deal of strategic autonomy regarding its global decision-making (Dong et al., 2008; Nohria & Ghoshal, 1994; Roth & O'Donnell, 1996; Wright & McMahan, 1992). Alternatively, when the parent–subsidiary relationship involves higher levels of interdependence (i.e., higher coordination demands), headquarter's must rely on more complex governance arrangements and frequently will implement a combination of both behavior/controls, output (e.g., compensation), and social controls where social controls (i.e., trust and commitment) become important in managing the relationship (Eisenhardt, 1985; Martinez & Jarillo, 1989; Ouchi, 1979; Roth & Nigh, 1992; Taylor & Okazaki, 2006).

The integration of social control into parent–subsidiary relationships has been advocated (Nohria & Ghoshal, 1994; Roth & Nigh, 1992; Roth & O'Donnell, 1996) and is seen as an integrative tool to bridge the complexity inherent in global decision-making.

The strategic orientation of managers/organizations also influence decision-making. One of the most frequently used strategic orientation models is that of domestic, international, multinational, and global (cf., Bartlett & Ghoshal, 1987). Under each approach the strategic focus and decision-making rules differ to take into account the decision-making orientation of the managers. As such, the specific approach the firm operates under (e.g., domestic or global) sets the foundational reference point of that organization (or global network) influencing decision-making that works to coordinate decisions throughout the world.

Another strategic orientation influential in decision-making has been ethnocentric (e.g., home country orientation [domestic strategy]), polycentric (e.g., host country orientation [international strategy]), regiocentric (e.g., regional trading block strategy [multinational strategy], and geocentric (e.g., truly global orientation [global strategy]) (Heenan & Perlmutter, 1979; Perlmutter, 1969). These issues permeate more than staffing, but also influence elements of the firm's market assessment, product development, marketing strategy, etc. The focus of strategic decision-making is captured in the scope of operation, or frame-of-reference, of managers (Bartlett & Ghoshal, 1989; Scullion & Collings, 2006). The specific orientation selected indirectly influences the decisions of global managers.

Furthermore, it is imperative to recognize that the meaning of time varies across societies, organizations (and other groups) as well as among individuals (Harvey & Griffith, 2007; Hofstede, 1991; McGrath & Kelly, 1986; Trompenaars, 1997). Time can have a direct impact on global decision-making and a global managers' ability to effectively accomplish strategic tasks (Harvey & Griffith, 2007). Consequently, the complexity and ambiguity that surround the temporal aspects of global business significantly complicate the role that global managers play in the decision-making process of their foreign operations (Harvey & Novicevic, 2001). The embedding of time into the basic fabric of decision-making compels global managers to address the variation between the home country and host country differences in the basic dimensions of time (Ganitsky & Watzke, 1990).

Thus, from a multi-level model perspective, managers operate within groups, which are embedded within organizations. The organizational policies, strategies and approaches, influence the groups directly and the individual managers indirectly. Given that each of these organizational level factors shape the decision-making parameters, it becomes important for the individual manager to draw from these organizational elements specific reference points that can provide for optimal individual decision-making. Further, the participation in groups creates multiple reference points from which the manager can draw to more effectively and efficiently make decisions.

2.4. Societal level of global decision-making

The highest level of assessment of the multi-level global decision-making model is that of the society in which the global manager's decision-making is taking place. The macro-environment provides the landscape for making decisions and provides a set of reference points for global managers. For example, issues such as the level of economic development in the host country, the level and nature of poverty in the host country, the cultural difference between the host country and that of the home country of the global manager, the level of 'openness' (i.e., transparency in the host country [e.g., economic, political, and social]), and the societal assessment of the potential externalities of a global manager's decision-making need to be taken into consideration when global managers make decisions as each of these factors sets forth a parameter on decision-making.

Rostow (1959, 1990) developed a model of economic growth that identified five different stages of economic development: the traditional society, the preconditions for take-off, the take-off, drive to maturity, and the age of high mass-consumption. In categorizing economies into different groups, it is possible to
identify the key considerations in each type of economy and their potential influence on a manager's decision-making. For example, differences in economic growth signal differences in the amount of investment in capital equipment and infrastructure development, which may influence the manager's decisions. While stage models are criticized for taking a very Anglo-centric point-of-view, these models can provide a panorama of issues that global managers need to take into consideration when determining the influence of host country levels of economic development on decisions.

The level and nature of poverty in the host country is another aspect of the societal level of global decision-making to be considered. Economic development is increasingly viewed as a way to eliminate (or decrease) poverty in “Base of the Pyramid” (BoP) of developing countries, where the average daily income is $2 or less (Hart, 2005; Prahalad, 2005) but will have 7/8ths of the world’s population by the year 2050. While the “average” may be less than $2/day, wide income disparities exist even within countries – from rural to urban, and within urban settings. Nevertheless, even within the poorer sections of such countries, multinational and local firms are starting to tap these markets (Napier & Harvey, 2008; Prahalad, 2005), thus providing new reference points for global managers.

Further, the differences in culture among countries of the world are well documented (e.g., Hofstede, 1991; Trompenaars, 1997). Decision-making will be indirectly as well as directly impacted by the nature of the host country’s culture in which global managers are making decisions (Brettel, Engelen, Heinemann, & Vadhanasundhu, 2008; Griffith, Myers, & Harvey, 2006). The home country culture of the global manager is an imprint on the manager’s way of thinking that cannot be avoided regardless of where the decision-making takes place. This influence of culture is most evident when the decision being made will be implemented throughout the global network of an organization (e.g., the decision having differing influence in each culture due to the uniques ness in each cultures). The cultural distance between countries becomes a critical dimension of decision-making of global managers for both understanding the decisions made within the global organization, but also in compliance with that decision in the local market. Therefore, it is imperative that the global manager has a means to analyze cultures to calibrate the level of differences. Hofstede’s cultural analysis (i.e., individualism vs. collectivism, power distance; uncertainty avoidance, masculinity vs. femininity, and time orientation) is typically cited as one of the better means to determine difference between countries, although with limitations (Shenkar, 2001; Tihanyi et al., 2005).

In transitional and post-communist economies, the government controlled the free market. Decision-making was centralized with little autonomy allowed to individuals. Employees developed “ironic freedom” (i.e., the freedom of not identifying themselves with the system) (White, 1979) and thus worked around the system. Developing countries often have onerous tax burdens, duties, tithes, and other destructive controls that compounded the costly effects of living within the system giving only limited credence to western ways of doing business. Specifically, it is suggested that the only way an individual could “get ahead” would be to participate in the black market, or circumvent established controls and the established system. Therefore global manager’s brought up in this system will have difficulty in communicating globally due to their set reference points.

Table 2 illustrates the expansion of global decision-making in an organization (see Table 2). There are two orders (or levels) of influence of those unintentionally impacted. The delineation of global decision-making to non-interacting individuals (i.e., ‘others’) and the implicit nature of some aspect of global decision-making (i.e., some aspect of the decision that goes against the mores of the culture) helps to illustrate the sub rose impact of an overt destructive act. Under the expanded view of externalities, the first order (i.e., individual-to-individual) impacted by the global decision remains the same. But, in addition, there can be first order externalities between the individual and an organization, such that both the individual and organization can be a party to the global decision (i.e., it impacts them directly).

Beyond the direct participants in the exchange process, a variety of secondary effects can be influenced by the organization’s global decision and thereby, impact individuals and ultimately the organization as whole who were not a part of the decision. In the present ‘green’ societal expectations, the issue of global decision-making externalities needs to be carefully considered by global managers as these externalities set new reference points which can help to parameterize decision-making at the individual level.
3. Conclusion

Globalization and the speed of change in the marketplace have put a strain on managers’ ability to make global decisions. Even more problematic, managers that have been successful in the past may have decision-making logic based upon outdated points-of-reference that no longer apply or are ethnocentric in nature. This research contributes to the theoretical literature on decision-making by identifying multiple levels of influence on global manager decision-making based upon the guiding principles of Reference Point Theory. RPT provides a strong theoretical foundation for the study of decision-making since the basic premise of RPT is that global managers need to match the global environmental conditions (e.g., nature of the macro-environment), with reference points of the internal organization culture, affiliated groups in the organization and the individual manager’s point-of-reference (which set the foundation of an individual manager’s rationality). With the multi-level model outlined, future research can work to specify how manager’s select reference points, the magnitude of influence of each level of influence, as well as the individual factors that allow for effective reference point adjustment.

3.1. Managerial relevance

The managerial implications of this paper are based on the premise that global managers need to determine a priori what are the relevant reference points for making efficient as well as effective decisions in a global context. Frequently, these reference points may be different from those used to make decisions in a multinational context. Adjusting reference points may allow global managers to integrate the insight and wisdom of multiple influencers (e.g., group, organizational and societal) into global managerial decisions. Without this revision of global decision-making, managers will lack the proper perspective (e.g., past, present, and future) to implement global decisions. In addition, global managers will need to develop new decision processes that can be developed based upon input from multiple reference points.

The more dynamic the global environment the greater the risk associated with misinterpreting the appropriate reference points for making global decisions, especially when faced with multiple levels of reference points. In addition, global managers may have to develop a set of dynamic reference points to develop appropriate or satisfying decision heuristics, which are based upon reference points in groups, organizations, and the macro-environment. These reference points become the foundation for making effective global decisions.

In conclusion, this research explored managerial decision-making from a theoretical perspective noting the difficulties and risks associated with making global decisions. RPT provides a unique perspective on how to integrate relevant points of view when developing a new decision or decision-making process. As such, this theoretical foundation provides the guidelines for global decision-making. Many issues that need further investigation have arisen from this investigation; from the appropriate selection of these individuals to internally developing a corporate culture to assist in this high-speed environment to the ability to more accurately assess group, organizational and societal factors so as to more accurately account for these influences on managerial reference points. What appears to be certain relative to global decision-making is that due to the complicated and often risky nature of cumulative individual decision-making behavior (and thus the collection of potentially unintended consequences), global flexibility and creativity will be required.

References
