Exploring How Information and Communications Technology (ICT) Firms Create 'Value' for Organizational Stakeholders

by

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AUTHOR'S DECLARATION

I hereby declare that I am the sole author of this thesis. This is a true copy of the thesis, including any required final revisions, as accepted by my examiners.

I understand that my thesis may be made electronically available to the public.

Abstract

The understanding of how firms create value for their stakeholders is important for advancing the empirical body of knowledge on stakeholder theory. This is especially relevant for the exploration of technology companies operating at different organizational life cycle (OLC) stages. Our study investigates if the use of business-stakeholder engagement models differs among firms at various OLC stages. We have identified three distinct categories of business-stakeholder engagement models from the literature, including: 'corporate social responsibility' (CSR), 'creating shared value' (CSV) and 'creating value for all stakeholders' (VAS) (Freeman et al., 2010; Strand & Freeman, 2013). Drawing from the stakeholder theory and organizational life cycle (OLC) frameworks, we hypothesize that 'start-up' firms are more receptive toward VAS model; 'growth' firms toward CSR; and 'mature' firms toward CSV.

We apply a 'pragmatist' worldview (Creswell, 2009) to collect empirical evidence on Information and Communications Technology (ICT) firms. Our analyses include two extensive perception based exploratory studies, described as 'Phase-1' and 'Phase-2'. In the first phase of our exploratory study we use repertory grid technique (Kelly, 1955) to systematically elicit personal constructs from the ICT-sector business experts. We used a partial repertory grid method to interview 18 ICT-sector business experts from Central Canada. Selected sample groups comprised of three scholars and three practitioners from each of the start-up, growth and mature OLC stages. RepGrid and RepSocio features of the Rep 5 enterprise software were used to conduct idiographic and nomothetic data analyses to establish how firms at OLC stages perceive 'value-creation' for their stakeholders. Evidence from this exploratory study suggested that start-up stage firms are perceived to consider factors beyond creating economic value for both primary and secondary stakeholders. Whereas, growth and mature stage firms are perceived to consider socioeconomic (consisting of financial as

well as non-financial) scenarios for 'value-creation'. In the second phase of research, we use survey study design to test our proposed hypotheses. A total of 132 ICT-sector senior level practitioners, located in the United States of America (USA) participated in our study. A one-way repeated measures ANOVA, and factor analyses were used to systematically conduct data analyses for common method variance, and hypotheses testing. The results from the study showed that start-up, growth, and mature OLC stage firms are perceived to be at least partially receptive toward VAS, CSR, and CSV models, respectively.

Our study contributes to the literature on stakeholder theory, ICT-sector organizational life cycle framework, and methods for measuring organizational decision makers' perceptions about stakeholder engagement. The empirical evidence from our research strengthens Donaldson and Preston (1995), Jones and Wicks (1999), and Jawahar and McLaughlin's (2001) ideas about descriptive stakeholder theory for effectively understanding business organizations. We believe that these findings better equip us for further exploring claims of stakeholder theory – providing divergent narratives for understanding organizations in stakeholder terms (Jones, 1995; Freeman, 1999).

Some practical implications follow as well. For example, assuming our findings replicate, a society that seeks to encourage technology companies to broaden their range of stakeholders for innovation (e.g., to include communities, environment) might direct instrumental change toward 'start-up' firms as appreciative of VAS — even if these new firms require some time to develop perspectives of 'jointness of interest' as they strive to become 'growth' and 'mature' firms.

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Dedication

To my mentors in life, Dr. Paul Guild, Anjum Shahzad and Usman Shah.

You empowered me with knowledge.

Thank you for showing me the light.

Thank you for the gift of knowledge that I shall forever treasure.

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Chapter 1

Introduction

There are over seven billion people on planet Earth, persons with diverse economic conditions and living standards. These can be divided into five types of economies: surviving, emerging, developing, transitioning and developed (Carayannis & Zedtwitz, 2005). In the past, various efforts were made to try to eradicate poverty and economic inequality in world communities. For instance, foreign monetary aid programs were once considered strategically important to deal with this inequality predicament (Papanek, 1973). But later, due to lack of accountability mechanisms in under-developed and developing regions of the world, some of these programs earned bad reputations. Researchers concluded that such assistance programs promoted nothing but corruption, and unequal distribution of wealth in those regions, which caused new problems (Boone, 1996; Alesina & Dollar, 2000; Dalgaard et al., 2004; Moyo, 2009; Shah, 2011).

Among other approaches, using businesses to eradicate societal issues has gained popularity. It is generally agreed that wealth creation, either directly or indirectly (such as through jobs, taxes, capital circulation) adds to any economy's stability. Rosling (2009) and Prahalad (2010) predicted that these gaps would close if we promote meaningful and value-creating businesses in global markets. We have several examples of companies like Microsoft, Apple, and Google that have positively contributed toward creating value and resolving societal issues. At the same time, we have examples like Enron (2001), WorldCom (2002), Lehman Brothers (2008), Fannie Mae (2008), and MF Global (2011) that have committed business fraud and added to societal problems. Such practices raise our concerns about the role of business in societies. Studies have been conducted to review the events of economic crises (2008) and social movements like Occupy Wall Street (2011) that protested actions that deprived millions of people from their jobs, savings, and homes (Amaeshi et al., 2013). Given this scenario, academics, as well as practitioners demanded that corporations discontinue their profit

taking at society's expense and to review their business policies toward achieving real sustainability and 'value-creation' (Porter & Kramer, 2011; Freeman et al, 2010; Haque, 2009).

In the past, movements such as 'corporate philanthropy' (CP) or 'corporate social responsibility' (CSR) emerged to connect societies with businesses (Freeman, et al. 2010). Andrew Carnegie (a Scottish-American businessman of 19th and early 20th century) stated that wealthy members in a society must take care of the poor (Carnegie, 2006 – first published in 1889). Even to date, we can find several foundations and non-governmental organizations (NGOs) run by wealthy business families that strive to extend greater good in communities (Freeman et al. 2010). The concept of CSR promoted partnerships between businesses and societies. It formally started in 1950s in the United States (Carroll, 1999; Freeman et al., 2010) and gained a lot of popularity in 1990s (Henderson, 2001). Historically, the 1992 Rio Earth Summit played an important role in legitimizing this type of business-stakeholder collaborative model (Grayson & Nelson, 2013). The suggestions put forward to curb societal issues through technology and innovation by business leader participants of the summit were viewed with suspicion and doubt at first (Grayson & Nelson, 2013). But later the world witnessed technology and innovation enabling rescue workers to save lives during the Haiti disaster in 2010, providing evidence that value-creating business services or initiatives can resolve some societal challenges (Tapscott & Williams, 2012). A similar case was witnessed during the Arab Spring (2010) where the masses of repressed communities, most from the Arab World (Tunisia, Egypt, Libya, and Yemen) used social media technologies to get organized and oust their rulers from power.

We can find several definitions and interpretations of the CSR phenomena in the literature (Amaeshi et al., 2013). It is an old concept, one that has evolved significantly in the past few decades. There are arguments for and against it. For instance, Friedman (1970) heavily criticized the CSR concept as it disrupts the core business function of wealth creation for shareholders. Similarly,

Drucker (1994) suggested that businesses must breakeven with their cost of capital to be deemed as responsible. Henderson (2001) advocated that CSR initiatives reduce business competition, which may result in market destabilization. In another study conducted by Kotchen and Moon (2011), a relationship was observed between companies doing 'more harm' (by acting irresponsibly), might actually be the ones doing 'more good' (through programs like CSR). For instance, Lehman Brothers (bankrupted in 2008) had an elaborate CSR program in place but became one of the causes for the financial meltdown of 2008. It is suggested that CSR is not going far enough toward resolving world problems (Freeman, 2013)¹. Some evidence suggests that it is uncertain to achieve societal uplifting goal through CSR-led programs (Jenkins, 2005). Such arguments raise questions as to the integrity of the CSR approach.

The CSR concept is not limited to only Western demography, rather it has become a global phenomena (Grayson & Nelson, 2013). Thus, in the absence of a strong systematic explanation of where CSR fits in today, how CSR has evolved, and how new models of business-social partnerships have emerged globally, makes the advocacy of newer ways of managing business-stakeholder partnerships difficult to understand and support. By newer ways of conducting business-stakeholder collaborations, we refer to the idea of businesses 'creating value for all its stakeholders' (VAS) (Freeman et al. 2010).

Some scholars view that the dominant business narrative of creating profits in the short-run has caused a lot of damage to the reputation of capitalism and corporations *per se* (Freeman et al, 2010; Haque, 2009; Porter & Kramer, 2011; Grayson & Nelson, 2013; Amaeshi et al., 2013). This kind of unregulated profit-making has brought distressing social costs to humanity (Carroll et al., 2012). But not everyone accepts this dominant business narrative; in fact, some denounce activities that involve

¹ Edward Freeman (2013) presented it in an online course on 'New Models of Business in Society', available at www.coursera.org.

irresponsible conduct by the firms. For instance, a group of consumers stopped purchasing Nike products after they learned about foul labor conditions at some of Nike production facilities in the developing countries (Porter & Kramer, 2006; Brugmann & Prahalad, 2007). With the help of advancement in the media sector, penetration of NGOs, and rising of civil societies, today's businesses are expected to be more accountable for their actions than ever before (Porter & Kramer, 2006).

In 2011, Porter and Kramer formulated a business-stakeholder collaborative model to respond to the criticism of CP and CSR programs. They proposed that businesses should focus on creating 'social' value in order to be able to create long-term 'economic' value. They called this idea 'creating shared value' (CSV). This business engagement model highlights the fundamental need for integrating business strategy with societal needs (Porter & Kramer, 2011). For instance, a mobile telecom company offering online mobile banking in regions where it seeks to resolve societal issues – while keeping in perspective matters like affordability, accessibility, and security – qualifies for mutual 'value-creation'. Telenor's (telecom service company) Easy Paisa initiative in countries like Pakistan and M-Pesa service by Safaricom in Kenya surely speak about extending business initiatives to bring convenience of banking to millions of people living in these underdeveloped/developing countries².

Contrary to CP, CSR and CSV models, Freeman (1994) advocated that the distinction made between social and economic paradigms is a 'separation fallacy'. According to him (Freeman, 1994; Freeman et al., 2010), creating 'value' is more central than defining which parts of 'value-creation' are 'social' or which parts are 'economic'. Hence, firms should strive to 'create value for all stakeholders' (VAS). By using this argument Freeman et al., (2010) equate CSV model with CSR

² Facts taken from a report by CNN (2010), published by the name, "model for the future", retrievable at http://www.cnn.com/2010/TECH/01/14/mobile.phone.banking/index.html.

practices, primarily because they cater too much to firms' shareholders and owners (Strand & Freeman, 2013).

To summarize, we know that in response to the dominant business narrative, organizations initially started using CP, and CSR models of business-stakeholder engagement. Later, the ideas of VAS and CSV emerged – where firms draw a greater harmony among its multiple stakeholders (Freeman, 1984; Porter & Kramer, 2011; Freeman, et al. 2010).

In theory and practice, other models of business-stakeholder engagement also exist but these could potentially be termed synonymous to rather closely defined CSR, CSV, and VAS models. For instance, concepts like 'serving at the bottom of the pyramid' among others can be narrowly associated with the characteristics of the CSV model. In order to address the issue of how to distinguish among some major business-stakeholder engagement models, this study uses the construct of 'value-creation' – as per Freeman and Strand's (2013) definitions of the three tenets of stakeholder theory. These three tenets are the, 'cooperative strategic posture', 'jointness of interest', and 'narrowly economic view of the firms' addressing about how firms create value for their stakeholders.

In our study, we seek emerging evidence as to whether different paradigms of business-stakeholder partnerships are perceived to be more receptive toward firms at various organizational life cycle stages (OLC). These OLC stages are important for exploring the idea of how firms with idiosyncratic characteristics at different stages of development perceive 'value-creation' for their stakeholders. This study explores the ICT-sector organizations to better understand the phenomena of 'value-creation' for the reasons of its high potential impacts around the world. For that we conduct a focused literature review on the topics related to corporate social responsibility (Chapter 2); build upon stakeholder theory and organizational life cycle premise to ground testable hypotheses (Chapter 3); use a pragmatic framework (Creswell, 2009) and research methods to empirically underpin the

evolutionary premise of creating 'value' and assess the perceived readiness of today's ICT-sector firms' toward these business-stakeholder engagement models (Chapter 4); gather and analyze the exploratory evidence using a systematic, repertory grid technique (Chapter 5); analyze an exploratory survey study to further explore the perceived receptiveness of ICT-sector practitioners toward various business-stakeholder engagement models (Chapter 6); and finally conclude the study, its limitation, and future research directions (Chapter 7).

Chapter 2

Literature Review

2.1 Scope Of The Review

In this chapter we discuss literature on topics related to business-stakeholder collaboration, such as: corporate philanthropy (CP), corporate social responsibility (CSR), residual view of corporate social responsibility (R-CSR), integrated view of corporate social responsibility (I-CSR), corporate social performance (CSP), corporate financial performance (CFP,) creating shared value (CSV), social entrepreneurship (SE), and social innovation (SI). In addition, some recent views on new business models, namely emergence of stakeholder approaches in businesses, their relevance with different organizational development stages, and their impact in creating value for all stakeholders (VAS) are examined.

The scope of the study allowed us to conduct an exclusive literature review on the topics mentioned above. For this we used key terminologies, such as: corporate social responsibility (both, residual and integrated), strategic corporate social responsibility, corporate philanthropy, corporate social performance, corporate financial performance, creating shared value, inclusive business models, serving at the bottom of the pyramid (BoP), social entrepreneurship, corporate citizenship, sustainable responsible businesses, management of organizational stakeholders, and impact of social ventures in our search queries. We used these items separately, as well as with different combinations in online search engines, such as Google Scholar, Microsoft Academic Search and online databases, such as JSTOR, Emerald, and Scopus (amongst others available at University of Waterloo's Library) to uncover a rather vast literature.

We acknowledge that this chapter does not include a complete list of business-stakeholder engagement models from a rather vast literature. However, our discussion comprises of only those three models (namely, CSR, CSV and VAS) – that are distinguishable with the help of contributions in the literature on stakeholder theory. We believe that it is more important to highlight the key differentiating characteristics of various business-stakeholder engagement models from literature – rather than discussing every variant model to gain better learning.

2.2 Corporate Social Responsibility (CSR)

Due to limitations of space, only major contributors to the CSR literature are included in this chapter. In the beginning, a brief history of the evolution of the CSR ideology is discussed, leading to an overview of some recent CSR narratives. The fact remains that there is no universally accepted definition of CSR (Grayson & Nelson, 2013). Many different theories can be found in literature describing these CSR approaches – often representing the relationship between businesses and societies with different objectives (Levall & Prejer, 2013).

2.2.1 CSR Between The Era Of 1950s And 1980s

The research contributions made by Carroll in the past two decades have played a pivotal role in analyzing the origins of CSR and its alternative concepts. We will include here some of the main ideas and findings of Carroll (1979, 1999), and the work done by Aguinis and Glavas (2012) in our brief historical overview of the CSR concept. The concept of CSR is mostly considered to be a phenomenon of 20th Century (Carroll, 1979). Half a century ago, CSR was defined as, "an obligation of the businessmen to pursue those policies, to make those decisions, or to follow those lines of actions which are desirable in terms of the objectives and values of the society" (Bowen, 1953). It is quite intriguing to see the way that Bowen (1953) described the concept; essentially he points CSR strategy toward gearing businesses to create value for their societies. It may make one wonder why the concept of CSR became so complicated and started to contradict (in certain cases) some fundamental assumptions of creating value for the societies in the later years. Theoretically speaking,

the definition presented by Bowen in 1953 draws very close meaning to the recent work done by Porter and Kramer (2011) about CSV (discussed later in the chapter). Perhaps, one could argue that the CSR concept was theoretically about 'value-creation' for the societies but somehow the execution or practical implementation of it did not go well; this is evident from our later discussions in this chapter.

Almost a decade after Bowen's definition of CSR, this concept was sometimes viewed as partially beyond the interest of economic, technical and legal obligations of the firm (Davis, 1960; McGuire, 1963; Walton, 1967). However, Freidman (1970) opposed these interpretations of Davis (1960), McGuire (1963) and Walton (1967) and advocated instead that the ultimate purpose of any business is to create value for its owner, or stock/shareholders. In the early 70s, Johnson (1971) explained the phenomenon of a socially responsible (SR) firm in multiple complementary ways. According to him, a SR firm is one "whose managerial staff balances a multiplicity of interests. Instead of striving only for larger profits for its stockholders, a responsible enterprise also takes into account employees, suppliers, dealers, local communities, and nations". This idea seems quite similar to Freeman's Stakeholder Theory (Carroll, 1999); details of which are discussed in Chapter 3. Toward the end of the 70s era, Carroll (1979) presented a definition of CSR, expressing that "the social responsibility of business encompasses the economic, legal, ethical, and discretionary expectations that society has of organizations at a given point in time". He later summarized that there is no sequence or set pattern for satisfying economic, legal, ethical, and discretionary categories (Carroll, 1999).

2.2.2 CSR Post 1980s

Post 1980s, with new research, the CSR field became more specialized. Dahlsrud (2008) studied 37 definitions of CSR (from 1980 to 2003), originating from America, Europe, India and Canada. This

³ To understand the significance and meaning of economic, legal, ethical, and discretionary expectations, see the literature review by Carroll (1999).

analysis used only the definitions consisting of the term 'corporate social responsibility' to ensure consistency of the results (Dahlsrud, 2008). In this study, it was pointed out that the challenge is not to define CSR, but to understand how CSR is socially assembled in a particular framework and how it is incorporated into developing specific business strategies. Five dimensions, namely, 'the environmental', 'the social', 'the economic', 'the stakeholder', and 'the voluntariness' were identified by Dahlsrud (2008) to reflect on the content of the CSR definitions.

During this era, the radius of CSR approach expanded as it promoted a multi-stakeholder engagement perspective (as suggested by Dahlsrud, 2008). It was concerned with the ethical treatment of the internal and external stakeholders of the firm, as the idea was to promote human development (inside and outside the firm) by behaving responsibly (Hopkins, 1999).

Between 1980 and 2000, much of the focus shifted to exploring the relationship between 'corporate social performance' (CSP) and 'corporate financial performance' (CFP) – which showed a variety of positive, negative and inconclusive results (Anderson & Frankle, 1980; Cochran & Wood, 1984; Aupperle et al., 1985; Davidson & Worrell, 1988; Bromiley & Marcus, 1989; Johnson & Greening, 1994; Waddock & Graves, 1994). According to Griffin and Mahon (1997), academics and practitioners expressed concerns over these inconsistent results – perhaps arising from unclear understanding of the concepts of social and financial performance. On a similar note, Crane et al. (2014) discussed the struggle of CSR to effectively deal with the tensions between social and economic goals in the real business world. They acknowledged that having a simple and narrow perspective about social performance fails to address these complex business and societal challenges (Crane et al., 2014).

2.2.3 CSR In The New Millennium (2000 And Beyond)

According to World Business Council for Sustainable Development (WBCSD, 2000), CSR explained "the continuing commitment by business to behave ethically and contribute to economic development while improving the quality of life of the workforce and their families as well as the local community and society at large". This definition, however, seems a bit vague and does not explicitly address all other stakeholders associated with the firm. Similarly, the Commission of the European Communities (2001) defined CSR as "a concept whereby companies integrate social and environmental concerns in their business operations and in their interaction with their stakeholders on a voluntary basis". More recently, according to the European Commission, CSR can be defined as "the responsibility of enterprises for their impact on society" (European Commission, 2011). The meaning associated with the 'impact on society' is to capitalize on the creation of shared value for their (multiple) stakeholders (European Commission, 2011). We noticed that in late 90s and post 2000, the word: 'stakeholder' became a part of the vocabulary in CSR literature.

The above discussion shows that over the course of half a century, continuous research has been conducted on the theories, as well as practices (including merits/demerits) of different CSR approaches. One of the major and consistent criticisms of this practice has been that organizations with a strong profit-maximization drive propagate social responsibility as one of their central objectives, which in reality may not be true. This phenomenon is described by Johnson (1971) as the 'lexicographic view of social responsibility'. For instance, many studies have claimed that adapting to the CSR approach have caused firms to achieve competitive advantage, higher customer satisfaction and better financial returns (Maignan et al., 1999; Bansal & Roth, 2000; Sharma, 2000; Sen & Bhattacharya, 2001; Orlitzky et al., 2003; Brammer & Pavelin, 2006). According to the literature, personal preferences influence decisions regarding the CSR programs (Johnson &

⁴ See the literature review by Carroll (1999) to learn more about this phenomenon.

Greening, 1999; Neubaum & Zahra, 2006; Aguinis & Glavas, 2012). Firm owners use their CSR budget according to their own personal likings – causing discontinuation of CSR initiatives during financial turmoil. This view of CSR approach is similar to the Residual-CSR view presented by Freeman et al. (2010). According to this view firms that give back to societies from the residual profits are not doing enough toward making business-stakeholder model sustainable (Freeman et al., 2010).

2.3 Creating Shared Value (CSV)

Porter and Kramer (2011) presented a case to reinvent capitalism through their 'Creating Shared Value' (CSV) concept. They posed it as an alternative to a much criticized (residual) CSR approach. According to them organizations can achieve long-term, sustainable value by focusing on the societal issues (Porter & Kramer, 2011). This can be achieved by 're-conceiving products and markets', 'redefining productivity in the value chain', 'enabling local cluster development' with a motive to resolve societal issues at large⁵ (Porter & Kramer, 2011). In other words by aligning core business strategies with social needs, corporations gain sustainability, competitive advantage, power to resolve societal issues and gain profits at the same time (Porter & Kramer, 2006; 2011; Michelini, 2012).

Many scholars, practitioners and thinkers belonging to this field have explored business-stakeholder phenomenon with terms like 'creative capitalism', 'inclusive business', 'doing well by doing good', 'harnessing core competencies', 'social business', 'ethical trade', and 'delivering shared value' (Ashley, 2009)⁶. The common understanding of these terms is allowing businesses with commercial value to bring prosperity to poor people in the developing or under-developed regions of

⁵ According to FSG (Social Impact Consultants – www.fsg.org), a not-for-profit organization that provides local and global organizations may include corporations, governments, non-profit organizations, school systems, for-profit private firms, and community foundations. They have published a list of their existing 261 client organizations that, as of September, 2015, are moving toward CSV business-stakeholder engagement model.

⁶ For more details about the origin of these terminologies, see Ashley (2009).

the world. This can be achieved with balanced social and commercial value-creating initiatives (Ashley, 2009).

There are several other business models that advocate for organizations to create value for societies and businesses simultaneously which may link them with CSV ideology. For instance, 'social entrepreneurship' (SE) is considered as an innovative utilization of available resources to exploit opportunities for addressing social needs as a primary objective, while treating wealth generation as a by-product for achieving organizational sustainability (Dees, 1998). The number of social entrepreneurs is believed to have multiplied in volume with increased penetration in various geographies (Schwartz, 2012). The economic benefit can be utilized by the poor for improving their living standards and bringing prosperity. This phenomenon can also be called 'social business model' (Mair & Marti, 2006; Easterly & Miesing, 2007; Yunus 2011). Similarly, 'social intrapreneurship' is another model for achieving shared value, which is termed as an organizational drive to bringing social change through its core-business products and services for building long-term business and societal values (Brenneke & Spitzeck, 2009). Michelini and Fiorentino (2012) introduced 'inclusive business model', as another defining term toward creating value in societies through business intervention (originally stated by the World Business Council for Sustainable Development, 2008). This concept is similar to the concept proposed by Prahalad (2010) to serve the masses at the 'bottom of the pyramid (BoP)'. According to this model multi-national organizations generate growth by altering their products and services to suit demands and needs of mass consumers, converting them into micro-consumers, micro-producers, micro-investors, and innovators (Prahalad & Hart, 2002; Prahalad & Hammond, 2002; Prahalad 2010). On a further note, Kanter (1999), terms 'corporate social innovation' as a way of developing corporate solutions for social problems and treating them as learning laboratories. Haque (2009) argued that businesses making profits at the expense of the society are not beneficial for anyone. Organizations should focus on developing 'meaningful'

products and services for their customers, which has been referred to as creating 'thick value' (Haque, 2009).

From our discussion above, we can identify variations in the business-stakeholder engagement models. Nevertheless, CSV may complement the existing schemes of CP, CSR and sustainability (Leth & Hems, 2013), and it still may be unfair to compare models like SE with CSV (the former model focusing on social sustainability; whereby the latter driven by profit motives). To be able to differentiate among the fundamentals of these models, we use a stakeholder theoretical lens, presented by Freeman et al. (2010).

Among the most prominent critics of the CSV model, Crane et al. (2014) highlighted some of its valid shortcomings, such as this model lacking in originality (for being very similar to the likes of 'strategic CSR', 'BoP', and 'social innovation' concepts among others), and not addressing the core complexities of balancing economic and social interests. However, Crane et al. (2014) still acknowledged the potential of this model to create awareness about socially beneficial business practices in both practice and theory.

2.4 Creating Value For All Stakeholders (VAS)

In the literature, we can also find a third type of business-stakeholder engagement model, known as 'Creating Value for All Stakeholders' (VAS) (Freeman et al., 2010). According to which, firms must treat all its stakeholders equally to create value while avoiding tradeoffs (Freeman, 1984; Freeman et al, 2010). According to Crane et al. (2014), the stakeholder theory approach has the potential to effectively drive firms toward fulfilling their multi-purposes – which models like CSV lack. The three tenets of ST (i.e. 'jointness of interest', 'cooperative strategic posture' and 'rejections of a narrowly economic view of the firm') allow us to distinguish among our outlined models (i.e. CSR, CSV and VAS) of business-stakeholder engagement as shown in Table 1 (Strand & Freeman, 2013). According

to them, 'jointness of interest' enables organizations to create value by exerting efforts to align their interests with the interests of their stakeholders. Similarly, 'cooperative strategic posture' allows organizations to consider their stakeholders as partners in cooperation as opposed to considering them as potential competitors. This tenet of stakeholder theory assists in developing harmony amongst businesses and stakeholders as partners in cooperation. However, 'rejection of a narrowly economic view of the firm' guides organizations to downplay the phenomenon of profit maximization as the sole objective of the firm.

Strand and Freeman (2013), advocated that, despite CSV showing 'jointness of interest' and promoting 'cooperative strategic posture', it still practices a 'narrowly economic view of the firm' – that is where it is different from the newer paradigm of VAS.

Table 1: The Three Business-Stakeholder Engagement Models

CSR ⁷	CSV	VAS
 More Narrowly Economic	 More Narrowly Economic	 Less Narrowly Economic
View of the Firm Less Cooperative Strategic	View of the Firm More Cooperative Strategic	View of the Firm More Cooperative Strategic
Posture Less Jointness of Interest	Posture More Jointness of Interest	Posture More Jointness of Interest

It is evident from the above discussion that there is a need to better understand business-stakeholder engagement opportunities. We seek to better understand this phenomenon through empirical evidence, making it an applied research problem (Booth et al., 2003).

⁷ To simplify the complexities in our research, we decided to refer to 'residual-CSR' concept as just 'CSR'. According to Freeman et al. (2010) residual-CSR can be defined as conventional, non-strategic initiatives of firms that respond to the societal claims only after maximizing their profits.

Chapter 3

Theoretical Framework and Hypotheses

Continuing with the ideas presented above, we propose to use the 'Stakeholder Theory' and 'Organizational Life Cycle' (OLC) narratives (conceptual frameworks) to understand the readiness of today's firms toward use of various paradigms of business-stakeholder collaboration. In this section, we identify an opportunity to investigate the perceptions of practitioners, representing firms from different developmental stages about the paradigms of CSR, CSV, and VAS.

Drawing from the discussions on stakeholder theory and organizational life cycle framework, we seek the emerging evidence as to whether different OLC stages influence the perceived receptiveness toward various business-stakeholder partnerships. The underlying assumption is that when an organization moves typically from one stage to another in organizational development life cycle – based on its idiosyncratic characteristics – it responds differently to organizational stakeholders. Our study attempts to explore the models of business-stakeholder engagement as suggested by the stakeholder theory and the various developmental stages of ICT-sector organizations to better understand the phenomena of 'value-creation'. New learning may enable us to understand the topic of stakeholder engagement in a more holistic manner.

3.1 Stakeholder Theory

According to the literature, stakeholder theory is an organizational theory (Phillips, et al., 2003) which promotes creating value for all stakeholders by avoiding tradeoffs among each other (Jones & Wicks, 1999; Freeman et al., 2010). The concept of stakeholders has been around since 1960s, from an era when business was seen as an essential element of society rather than a narrow profit-centric pursuit (Freeman & Liedtka, 1997). This theory emerged as an opposing concept to the widely used

'shareholder' theory of organizations (Freeman, 1984; Freeman et al., 2010). According to the stakeholder theory, management of an organization does not only have a fiduciary duty to the shareholders, but also have obligations to other stakeholders of the firms (Hasnas, 2013). Some key stakeholder theorists, such as Freeman, Wicks and Parmar (2004) elaborated this distinction and stressed that stakeholder theory does not underplay the importance of financial stakeholders; instead, it promotes firms to harmonize their interests with all, including non-economic stakeholders. Owing to that, a stakeholder theory approach has been said to provide a better path for managers and entrepreneurs to articulate broader purpose of the firms (Freeman et al., 2004).

The antithesis of the stakeholder theory posits that organizations ultimately exist to maximize their profits and economic returns (Friedman, 1970), which would seem to negate the views of Bosse, Phillips, and Harrison (2009) about organizational stakeholders wanting things other than just achieving economic benefits. According to Harrison and Wicks (2013), paying attention to these other factors may provide useful directions for understanding what enables firms to become thriving and sustainable in the longer-term.

In the stakeholder theory literature, not many empirical studies exist to help in advancing our understanding about how firms at different OLC stages perceive 'value-creation' for their stakeholders. Prior to approaching this gap in the literature, we must highlight the legitimacy of stakeholders through their interactivities. Typically, managers and entrepreneurs consider the interests of "those groups and individuals who can affect (or be affected by) their activities" as their legitimate stakeholders (Freeman, 1984; Donaldson & Preston, 1995). These include customers, employees, financiers, communities, suppliers, and sometimes others to whom firms have responsibilities (Freeman, 1999; Phillips et al., 2003; Freeman et al., 2007; Freeman et al., 2010).

In the past, several discussions were made to advance stakeholder theory on descriptive, instrumental, and normative aspects of the theory. Donaldson and Preston (1995) shared some of the distinctions, challenges and implications of it in their research work. According to these authors, it is important to understand the reasons for accepting stakeholder theory over alternative ideas, such as 'management serving the shareowners'. They (Donaldson & Preston, 1995) argued that stakeholder theory mutually supports the descriptive, instrumental, and normative aspects of the theory. At the first (descriptive) level, the theory explains associations that are observed in the real world. At the next (instrumental) level, the cause and effect relationship of certain practices resulting in definite outputs advance the descriptive observation. At the third (normative) level, the function to offer guidance on the basis of some fundamental moral and philosophical values is exercised.

The idea falls short in supporting accuracy of descriptive, as well as instrumental aspects of the stakeholder theory by examining the criticism and support found in the literature (Donaldson & Preston, 1995). However, the argument of stakeholder theory being fundamentally normative is supported, especially in the light of theory of property rights (Donaldson & Preston, 1995). To compliment the typology of stakeholder theory by Donaldson and Preston (1995), Jones and Wicks (1999) identified two divergent approaches: 1) social science based research and, 2) normative ethics account prevailing in the stakeholder literature. However, in response, they proposed an integrative or convergent stakeholder theory, connecting normative arguments and supporting it with instrumental or practical approaches (Jones & Wicks, 1999).

Freeman (1999) criticized the convergent stakeholder approach, as well as the assumptions on which it was built – that is normative, instrumental, and descriptive aspects of stakeholder theory suggested by Donaldson and Preston (1995), and the association between the instrumental and normative theories as pointed out by Jones and Wicks (1999). According to him (Freeman, 1999) this kind of distinction gives birth to a phenomenon called 'separation thesis' – separating businesses

from ethics. It is because almost every business decision arguably has some ethical grounds attached to it (Freeman, 1994; 1999; Freeman et al., 2010). The researchers should focus more on theory that 'diverges' for developing narratives that can show that organizations can succeed by promoting cooperation amongst various 'stakeholders' (Freeman, 1999; Freeman et al, 2010). It was further elaborated that the stakeholder approach was built upon instrumental foundations following a pragmatic framework, which drives the notion that, for organizations to be successful, they must solely satisfy those being affected or those that can affect (Freeman, 1999). As instrumental narrative requires some reasoning, it is not necessary to have a normative justification when using this approach (Freeman, 1999). There is a need to put more emphasis on increasing studies backed by instrumental theory – primarily because there is more than one way to effectively manage stakeholder groups (Freeman, 1999).

While acknowledging the aforementioned three aspects of the stakeholder theory, we consider benefiting from our research by initially framing questions in a descriptive manner; this could potentially prepare us better for further exploring the instrumental aspect of the stakeholder theory eventually.

We can utilize stakeholder theory as a framework to develop several other testable theories (Wheeler et al., 2003; Freeman et al., 2010). For instance, through studying the relationship between businesses and their stakeholder groups as a unit of analysis, one can address the contemporary issues about 'value-creation' and trade, ethics of capitalism, and managerial mindsets (Freeman et al., 2010). Although the stakeholder theory dialogue has been extended to various industries and academic disciplines, very little research addresses different perspectives as to how firms create 'value' for their stakeholders. Harrison and Wicks (2013) developed a four-factor perspective for defining the 'utility' that stakeholders seek from firms. This maybe a good starting point to realize a broader understanding of the term 'value', one that extends beyond a narrowly-defined perspective of 'economic returns' to

yield a legitimate expression about 'value' (Friedman, 1970; Donaldson & Preston, 1995; Mitchell et al., 1997; Berman et al., 1999; Argandona, 2011; Harrison & Wicks, 2013).

As we discuss the measurement of firm performance using a multi-stakeholder focus, we note that some researchers have established KLD data⁸ as a way of learning about firms creating or destroying the overall firm 'value' (Berman et al., 1999; Hillman & Keim, 2001; Harrison & Wicks, 2013). This may be an efficient way to analyze the total worth of publically listed firms; however, it does not fully capture the notion of how firms at initial or intermediary stages of development create value for their stakeholders. In the literature, we have not found an empirical study that addresses how firms at different development stages perceive 'value-creation' or explain the responsibilities toward their primary or secondary stakeholders.

In an attempt to pursue this opportunity we suggest applying organizational life cycle theory (OLC) to conceptualize and capture a broader view about how firms at OLC stages vary in terms of creating value for stakeholders. Prior research supports the approach of using OLC in research question similar to ours (see Milliman et al., 1991; Jawahar & McLaughlin, 2001). Interestingly, Jawahar and McLaughlin (2001) proposed that, depending upon the importance of satisfying their needs, certain stakeholders would be more critical than others to organizations at different OLC stages.

Stakeholder theory is relevant to our work as it differs from the 'shareholder' dominant business narrative and promotes the 'value-creation' concept. In an interview with Moutchnik (Freeman & Moutchnik, 2013), Freeman highlighted five major postulates of the 'stakeholder' view that differentiate it from 'shareholder' perspective. Accordingly, first, businesses are not just about economics, they have other purposes too. Second, 'businesses' are about creating (or sometimes

⁸ KLD STATS (Kinder, Lyndenberg and Domini) is a statistical tool for analyzing trends in social, environmental, and governance performance of firms using data gathered annually from US-Publically listed companies. KLD data are now known as ESG (environmental, social, and governance) after being acquired by MSCI.

destroying) value. To lead a business, managers and owners should focus on getting their company interests aligned with stakeholders. Third, humans are not simple beings who get motivated only to create wealth. Our complexity, with many wants and needs, allows capitalism to work; indeed, such complexity enables us to create value for each other. Fourth, we should assume that most people are honest and responsible. Fifth, competition in free markets is not bad as it increases options for people; however, the underlying objective of capitalism is the creation of value. Also related, due to technological advancements and the emergence of new political realities, Freeman says we must understand new ways of connecting businesses in societies (Freeman & Moutchnik, 2013).

In the mid 20th Century, Schumpeter (1939; 1994 – originally published in 1942) presented a similar rationale in support of capitalistic structure. He referred to capitalism as 'evolutionary' rather 'static', where 'creative destruction', 'innovation' and 'entrepreneurship' builds its foundation. The paradigm of VAS redefines the narrative of capitalism and ethics by realizing that businesses are created with a purpose to create 'stakeholder value' and not just 'shareholder value' (Freeman, 2007; Freeman et al., 2010; Harrison & Wicks, 2013).

In the recent past, scholars and researchers have made efforts to measure and define the concept of VAS (Argandona, 2011; Tantalo, 2011; Harrison & Wicks, 2013). Previously, the term 'value' has been either examined from the legitimacy viewpoint or from the economic perspective (Friedman, 1970; Donaldson & Preston, 1995; Mitchell et al., 1997; Berman et al., 1999; Argandona, 2011; Harrison & Wicks, 2013). In the given scenario, ample research opportunities exist for scholars to determine which of the models of business-stakeholder interaction are most sustainable for organizations. More research is required to know how firms with different characteristics explain their 'company customer responsibility', 'company employee responsibility', 'company financier responsibility', 'company supplier responsibility', and 'company community responsibility'

(Freeman et al., 2010) and then how it reflect upon adopting the right fit of business-stakeholder engagement model.

In our opinion this gap in the literature may be explored with these questions:

- 1) How do firms at different developmental stages describe their responsibilities of creating idiosyncratic 'value' for organizational stakeholders?
- 2) How do firms at different development stages perceive receptiveness toward various business-stakeholder engagement models?
- 3) How can such exploration be informed by evidence?

In order to address these exploratory research questions objectively, we decided to initially focus on business firms from one specific industry. It was believed that different industries may have their unique classifications of the OLC stages and running a generic exploratory study might not serve our research goals. For the purpose of scoping our research project better, we decided to focus on the ICT-sector for-profit business firms. One of the major reasons for choosing the ICT industry was its significant impact on the sustainable development of businesses and the economic development of many societies in recent times (Tapscott & Williams, 2012).

3.2 Organizational Life Cycle

We suggest applying organizational life cycle theory (OLC) to conceptualize empirically a business-stakeholder cooperative framework for firms at different OLC stages. Previous research supports the approach of using OLC in research questions similar to ours (Milliman et al., 1991; Jawahar & McLaughlin, 2001). Interestingly, Jawahar and McLaughlin (2001) proposed that depending upon the importance of satisfying their needs, certain stakeholders would be more critical

than others when comparing organizations at different OLC stages⁹. The top-level managers belonging to different organizational development stages have different priorities (Smith et al., 1985) that could predict the effectiveness of their firms (Quinn & Rohrbaugh 1983).

According to the literature, there are multiple stages in the OLC model. These stages consist of different sets of organizational activities and structures (Dodge, et al., 1994), which are often classified into three to ten stages (Miller & Friesen, 1984; Hanks et al., 1993; Lester et al., 2003; Bonn & Pettigrew, 2009). The attributes of firms at various development stages define the firms' priorities accordingly (Miller & Friesen, 1984; Greiner, 1972; Lewis & Churchill, 1983; Moores & Yuen, 2001). It has been demonstrated empirically that different stages of OLC have a significant effect on the firms adopting management control systems (Miller & Friesen, 1984; Moores & Yuen, 2001; Auzair & Langfield-Smith, 2005; Davila, 2005).

Managerial practices and policies to make the organization successful can differ in each phase of organizational development (Randolph & Posner, 1982). The results gathered by Kallunki and Silvola (2008) confirmed that firms adopt formal accounting management systems (e.g. activity-based-accounting practice) at the later stages of the life cycle as compared to the firms at the early stages. This may be because the firms at different developmental stages operate and compete in diverse environments, requiring unique administrative approaches and business strategies (Miller & Friesen, 1984) to increase their market share and reduce costs to deal with rising competition as they progress from birth to maturity stages (Kallunki & Silvola, 2008). The exact length of each phase is not constant and can vary according to the circumstances (Randolph & Posner, 1982). This implies that the use of different business-stakeholder collaboration models may vary across the stages of OLC. It creates an opportunity for exploring how business-stakeholder partnership strategies vary as organizations develop and transition from one stage to another.

⁹ See the four propositions by Jawahar and McLaughlin (2001).

A longitudinal study conducted by Miller and Friesen (1984) was an effort to categorize empirically organizational development stages on the basis of structure (organization), strategy, context (situation) and decision-making styles. Recent studies by Bonn and Pettigrew (2009), and Wang and Singh (2014) employed a four-stage organizational life cycle model, (start-up, growth, mature and decline) for their studies on firms' board members and CEO compensation plans respectively – thereby providing substantial evidence that these four stages can empirically describe the organization development cycle (Wang & Singh, 2014). We used the common features from Miller and Friesen (1984), and Kallunki and Silvola (2008) to define the criteria to operationalize our participant recruitment process. For instance, according to Kallunki and Silvola (2008), a typical start-up stage firm can be less than 13 years; a growth stage organization can be 13 to 49 years; and a typical mature stage firm can be over 49 years, among other differences¹⁰. Our study excluded the 'declining' stage of firm development from the analyses because of practical constraints of obtaining information from their representative sample group.

The operational definitions of these stages (start-up, growth, mature and decline) reduce the chances of misinterpretation of the measuring variables (Singleton & Straits, 1993). Our study excluded the 'declining' stage of firm development from the analyses because of practical constraints of obtaining information from their representative sample group. Also, from a previous study, self-reporting approach of categorizing firms at different organizational stages showed insignificant response from the respondents belonging to the declining stage of OLC framework (Kallunki & Silvola, 2008).

3.2.1 Start-up Stage

In the context of our research, 'start-up' firms are small enterprises trying to build up as a viable/feasible unit with no established reputation (Bonn & Pettigrew, 2009). The organizational

¹⁰ The details about the differentiating characteristics of start-up, growth, mature and decline OLC stages can be found in the work of Miller and Friesen (1984, page 1163), and Kallunki and Silvola (2008, page 69).

structures of these firms remain informal and flexible with the ownership held by one or a few individuals (Miller & Friesen, 1984; Bonn & Pettigrew, 2009). The age of the firm is also defined to be typically less than 13 years (Kallunki & Silvola, 2008). We are aware that some authors do not classify all 'start-up' businesses as 'entrepreneurial' (Drucker, 1985). This may be because some entrepreneurs do not require a profit purpose; instead they value innovation (Schumpeter, 1939; 1994; Drucker, 1985; Dees, 1998).

As discussed earlier, we plan to study the case of technology enterprises, which are often considered to be innovative so as to attain sustainable advantage (Guild & Bachher, 1996). This understanding compels us to include 'entrepreneurial ventures' in the category of 'start-up' firms. In order to define (in detail) the characteristics of 'start-up' stage, we rely on the features defined by Miller and Friesen (1984) under the category of 'birth phase'.

According to Balkin and Swift (2006), and Gomez-Mejia et al. (2011), the founding owners/CEOs or top management of 'start-up' firms are often motivated more by their altruism, emotions and other non-economic, intrinsic values than financial gains. We suggest (in the light of stakeholder theory) that 'start-up' firms are not simply driven by the purpose of making profits and therefore they place emphasis on equally satisfying other non-financial stakeholders too. This may be because they are not yet heavily invested in the 'status quo'. Therefore, we propose that VAS business-stakeholder practice is likely to be greater among firms in the 'start-up' phase than in firms belonging to the 'growth' and 'maturity' phases (as shown in Table 2).

If the distinctions described above are reliable and valid, we should expect to see the following hypotheses confirmed:

Hypothesis 1a. With respect to VAS, 'Start-up' firms are perceived to be more likely to demonstrate cooperative strategic posture than are the 'Growth' firms.

Hypothesis 1b. With respect to VAS, 'Start-up' firms are perceived to be less likely to demonstrate a narrowly economic view of the firm than are the 'Growth' and 'Mature' firms.

Hypothesis 1c. With respect to VAS, 'Start-up' firms are perceived to be more likely to demonstrate "jointness of interest" than are the 'Growth' firms.

Table 2: Relationship Between Start-Up Firms And Business-Stakeholder Engagement Models

		Business-Stakeholder Engagement Models				
		CSR	VAS			
		 More Narrowly Economic View of the Firm Less Cooperative Strategic Posture Less Jointness of Interest 	 More Narrowly Economic View of the Firm More Cooperative Strategic Posture More Jointness of Interest 	 Less Narrowly Economic View of the Firm More Cooperative Strategic Posture More Jointness of Interest 		
Organizational Life Cycle Stage	START-UP FIRM			✓		

3.2.2 Growth Stage

Firms belonging to the 'growth' stage of OLC are more formalized in structure with the likelihood of the owner being replaced by professional managers and placing better coordinated internal processes and systems to analyze complex decision making problems (Miller & Friesen, 1984; Smith et al., 1985; Bonn & Pettigrew, 2009). Usually, in this stage the emphasis is on rapid growth of sales

and transfer of some of the authority to middle management (Miller & Friesen, 1984). The expansion prospects in terms of employees, customers, products, and geographies are also catered in this stage (Jawahar & McLaughlin, 2001; Kazanjin & Drazin, 1989; Kallunki & Silvola, 2008; Bonn & Pettigrew, 2009; Wang & Singh, 2014). Our 'growth' phase is suggested by the "growth" phases of Miller and Friesen (1984) and Kallunki and Silvola (2008). According to which, the sales growth of the firms is the highest (typically up to 28%) with the increase in its bureaucracy and formalization of policies. However, the approximate age would be typically between 13 to 49 years (Miller & Friesen, 1984; Kallunki & Silvola, 2008).

The 'growth' firms are expected to be preoccupied with the older paradigm of CSR. It may be that, while making a transition to this new (growth) stage through coordination, firms decide on giving back to the society from the surplus profits. We also assume that they do not align the business-stakeholder initiatives with their core business strategy. The study conducted by Elsayed and Paton (2009) has shown no significant relationship between 'growth' firms' financial support and the successful implementation of social-environmental initiatives. At the 'growth' stage of OLC, emphasis remains on catering to the shareholders' interests (Wang & Singh, 2014). Furthermore, professional managers or CEOs adapt agency like behavior – for which firms use compensation packages (e.g. stock options) that safeguard personal interests of their top leadership (Gomez-Mejia & Wiseman, 1997; Wang & Singh, 2014). At this stage of development, more importance is given to establish the financial performance of firms (Miller & Friesen, 1984) and building its legitimacy for potential collaborators (Bonn & Pettigrew, 2009). Perhaps, the introduction of business-stakeholder programs by the firms could be catered as one of the ways to establish that authenticity. Hence, we propose that CSR business-stakeholder practice is likely to be greater among firms in the 'growth' phase than in firms belonging to the 'start-up' and 'maturity' phases (as shown in Table 3).

If the distinctions described above are reliable and valid, we should expect to see the following hypotheses confirmed:

Hypothesis 2a. With respect to CSR, 'Growth' firms are perceived to be less likely to demonstrate cooperative strategic posture than are the 'Start-up' and 'Mature' firms.

Hypothesis 2b. With respect to CSR, 'Growth' firms are perceived to be more likely to demonstrate a narrowly economic view of the firm than are the 'Start-up' firms.

Hypothesis 2c. With respect to CSR, 'Growth' firms are perceived to be less likely to demonstrate "jointness of interest" than are the 'Start-up' and 'Mature' firms.

Table 3: Relationship Between Growth Firms And Business-Stakeholder Engagement Models

		Business-Stakeholder Engagement Models					
		CSR CSV VAS					
		 More Narrowly Economic View of the Firm Less Cooperative Strategic Posture Less Jointness of Interest 	 More Narrowly Economic View of the Firm More Cooperative Strategic Posture More Jointness of Interest 	 Less Narrowly Economic View of the Firm More Cooperative Strategic Posture More Jointness of Interest 			
Organizational Life Cycle Stage	GROWTH FIRM	√					

3.2.3 Mature Stage

The 'mature' stage in the OLC consists of large organizations having strong cash flows with the ability to raise further capital with comparative ease (Dodge et al., 1994). They have established product selling markets with the focus on preserving or further improving their market position (Dodge et al., 1994; Bonn & Pettigrew, 2009). The organizational structure becomes very formal and bureaucratic with professional managers replacing the founders of the business (Miller & Friesen, 1984; Bonn & Pettigrew, 2009). At this stage of the OLC, firms' management exerts strong emphasis on diversifying the products, introduces sophisticated management controls and systems, and develops divisions for superior results (Miller & Friesen, 1984).

Our 'mature' phase is suggested by the "maturity" and "revival" phases of Miller and Friesen (1984) and Kallunki and Silvola (2008). According to which, the annual sales growth of the firms drop significantly while progressing from 'growth' to 'maturity' stages (Wang & Singh, 2014). Using Miller and Friesen's (1984) model and findings of Kallunki and Silvola's (2008) study – the annual sales growth of our defined 'mature' stage firms would be typically up to 4%; whereby the number of employees would be large; with firm age of approximately 49 years and beyond.

The 'mature' firms are expected to be preoccupied with the paradigm of CSV. Perhaps, firms at this stage of development may be prepared to look for uncontested opportunity by aligning their business interest with societal interests, known as CSV. It may be because this technique is lucrative for new investment opportunities, which is in line with the rationale presented by Miller and Friesen (1984), Kallunki and Silvola (2008), and Wang and Singh (2014) about 'mature' firms needing to improve their services and products to off-set competition. The firms in this stage put more emphasis on managing market competitiveness for improved profits (Miller & Friesen, 1984; Kallunki & Silvola, 2008). Also, since the firms at this stage are largest in size and operate at economies of scale (Liao, 2008), the overall focus shift toward achieving further efficiency for its survival (Dickinson, 2011).

On the other hand, those that do not succeed or comply with the above mentioned narrative are more likely to become 'declining' firms.

With respect to 'mature' firms' performance (as per stakeholder theory), we can argue that these firms give first priority to profit maximization and follow a 'narrowly economic view of the firm'. We can also deduce from the above discussion that there remains 'cooperative strategic posture' among firms and their stakeholders. Hence, we propose that CSV business-stakeholder practice is likely to be greater among firms in the 'mature' phase than in firms belonging to the 'start-up' and 'growth' phases (as shown in Table 4).

If the distinctions described above are reliable and valid, we should expect to see the following hypotheses confirmed:

Hypothesis 3a. With respect to CSV, 'Mature' firms are perceived to be more likely to demonstrate cooperative strategic posture than are the 'Growth' firms.

Hypothesis 3b. With respect to CSV, 'Mature' firms are perceived to be more likely to demonstrate a narrowly economic view of the firm than are the 'Start-up' firms.

Hypothesis 3c. With respect to CSV, 'Mature' firms are perceived to be more likely to demonstrate "jointness of interest" than are the 'Growth' firms.

Table 4: Relationship Between Mature Firms And Business-Stakeholder Engagement Models

		Business-Stakeholder Engagement Models					
		CSR	CSV	VAS			
		 More Narrowly Economic View of the Firm Less Cooperative Strategic Posture Less Jointness of Interest 	 More Narrowly Economic View of the Firm More Cooperative Strategic Posture More Jointness of Interest 	 Less Narrowly Economic View of the Firm More Cooperative Strategic Posture More Jointness of Interest 			
Organizational Life Cycle Stage	MATURE FIRM		✓				

3.2.4 Decline Stage

According to Miller and Friesen (1984) at this stage, the innovation level of firms reaches its low and profit margins decline, as consumers do not demand the products or services. At this stage, organizations are threatened about their survival (Jawahar & McLaughlin, 2001). They experience reduction in the market share with limited or expensive funding opportunities (Black, 1998). The shareholders and board of directors largely favor preservation of the company resources instead of keeping customers as their priority (Miller & Friesen, 1984).

According to Bonn and Pettigrew (2009), the 'decline' stage consists of different issues faced by organizations than those in the other OLC stages. For instance, the firms belonging to this stage are large in size, but have less innovative and diversified product and service offerings (Wang & Singh, 2014). These firms also face the challenge of getting merged or acquired in order to manage their losses (Jawahar & McLaughlin, 2001).

Our proposed study of firms at different OLC stages inclining toward various paradigms of business-stakeholder engagement does not include the 'decline' stage of the firm. We exclude it because of practical constraints of obtaining information from their representative sample groups. The self-reporting approach of categorizing firms at different organizational stages also showed insignificant response from firms belonging to this stage (Kallunki & Silvola, 2008).

It is to be noted that the above discussions on OLC (start-up, growth, mature, and decline) stages of business firms are not limited to the ICT-sector. Yet, in order to make more complete sense of the theoretical rationale for this research project, we decided to conduct exploratory studies to advance these learning in the context of ICT-sector (see Chapter 4).

Chapter 4

Research Method

4.1 Overview Of The Studies

Our research method followed a pragmatists' worldview (Creswell, 2009). We applied mixed technique (both qualitative and quantitative methods) to collect data through exploratory field research (referred as 'Phase-1') and then expanded on it with structured survey design study (indicated as 'Phase-2').

As an initial step toward testing the outlined hypotheses in Chapter 3, it is important to find a common meaning of terminologies used in research publications and by business practitioners. We conducted our study's exploratory phase (Phase-1) by conducting a systematic, semi-structured interview protocol, called, repertory grid methodology with a mix of open and closed ended questions to a conveniently selected set of respondents.

In Phase-2 of our research, we expanded on Phase-1 findings through a survey design study. It allowed us to either support or reject the proposed hypotheses empirically. Having multiple data collection methods help in condensing methodological weaknesses and attaining internal, external validity (Singleton & Straits, 1993; Chatman & Flynn, 2005; Merriam, 1998; Creswell, 2009; Yin, 2009).

4.2 Phase-1: Exploratory Field Study

In Phase-1 of our exploratory research study, we worked with the perceived value-creating scenarios about business-stakeholders, elicited by sample experts associated with the ICT-sector, including scholars and practitioners from the region of Southern Ontario, Canada. In addition to that, our Phase-2 of research focused on how a sample of practitioners from the ICT-sector in North

America – belonging to start-up, growth and mature OLC stages – perceived various characteristics of stakeholder 'value-creation'.

Figure 1: Overview Of Phase-1 Research Design

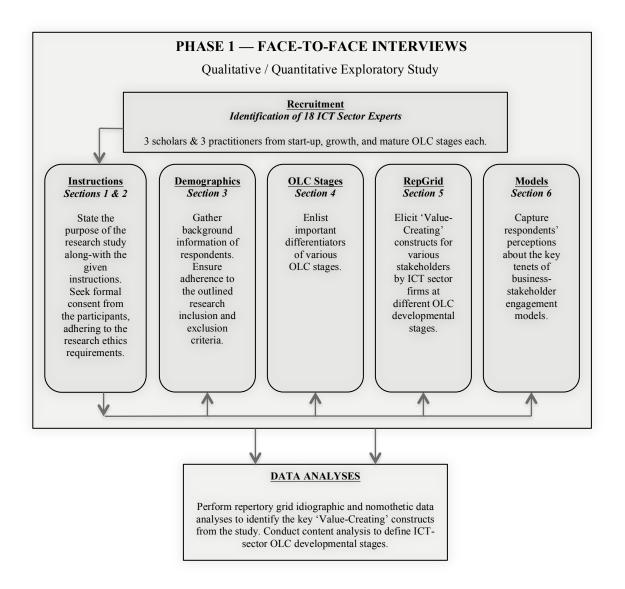


Figure 1 elaborates on the face-to-face interview design study that engaged a total of eighteen (18) ICT-sector experts¹¹. We used internet-scanning technique to identify potential respondents for this

 $^{^{11}}$ The details about the recruitment processes are given in Sections 4.2.1 and 5.1 of this document.

phase. Sections 1 and 2 of the designed study protocol were dedicated to explaining the purpose of the study to the respondents and placing the instructions for the respondents to follow during the interview respectively. Questions in Section 3 focused on the background information to justify with our inclusion / exclusion criteria of participants recruitment. Section 4 looked at extracting key differentiators between various OLC stages, including start-up, growth, small-to-medium, mature and decline stage for-profit firms. Section 5 of the protocol systematically followed a repertory grid technique to elicit value-creating constructs ('value-scenarios') by firms for their business stakeholders. Section 6 focused on establishing the 'older' versus 'newer' paradigms of various business-stakeholder engagement models as perceived by the respondents¹².

In summary, Phase-1 exploratory study enabled us to:

- Consider the extent of meaningfulness of various stakeholder groups in terms of 'valuecreation' as suggested by the stakeholder theory,
- Notice differences in constructs as they find useful for describing the start-up, growth and mature stages of organizational life cycle (OLC), and
- 3) Make a decision about whether to go with 'normative-interest' versus 'vested-interest' judgments in designing our successive empirical studies.

4.2.1 Sample Selection

Our criteria for inclusion of respondents in the study comprise: (1) of two expert groups; scholars and practitioners, (2) specializing in the domain of mobile, software, Internet, media, and social interaction technologies, (3) doing so from the region of Southern Ontario (Canada). These specific industries were chosen from a broader ICT spectrum because of their significant impact on sustainable development of businesses and the economic development of many societies (Tapscott &

¹² See the interview protocol in Appendix A for more details.

Williams, 2012). We believed that, by narrowing our focus on a particular industry, the participants may more consistently perceive the meaning associated with both internal and external stakeholders. A fourth criterion of inclusion was to recruit our participants from start-up, growth and mature OLC stages according to the rules outlined by Miller and Friesen (1984), and Kallunki and Silvola (2008). We also considered that by incorporating both, theory-based and industry-based views, we could present a more holistic picture about how firms at multiple stages of development respond to stakeholder 'value-creation'.

Prior to engaging our participants, the preliminary background check of all participants was done through Internet scanning (for further details see Noriega, 2013). After carefully identifying the companies and scholars that fit our criteria through professional social web platforms, an e-mail invitation was exchanged with them. Once our invitation was accepted, a face-to-face interview of hour duration was scheduled at their convenient time and place.

4.2.2 Repertory Grid

Repertory grid is a technique originally developed by George Kelly (1955), a personal construct psychologist. He did this to investigate people's behavior without influencing their references for diagnosing complex matters that required expert knowledge (Eden & Jones, 1984; Bannister & Fransella, 1986; Hisrich & Jankowicz, 1990; Easterby-Smith et al., 1996; Hunter & Beck, 2000; Diaz De Leon & Guild, 2003; Gaines & Shaw, 2003; Jankowicz, 2004; Fransella & Bannister, 2004; Caputi et al., 2011). The personal construct psychology (PCP) has the comprehensiveness that enables a researcher to explore the construing of both, individuals and groups. This theory is widely applied in the fields of counseling, psychotherapy, clinical practice, understanding of culture and society, and study of organizations (Winter, 1992; Scheer & Sewell, 2006; Neimeyer, 2009; Cummins, 2006; Dobosz, 2003; Raja et al., 2013).

This probing technique was relevant to our investigation as it allowed us to systematically incorporate personal views of ICT-sector business experts in understanding 'value-scenarios' for their stakeholders. Raja et al. (2013) used a similar study design to understanding customers' views on integrated products and service and the related value-in-use. To all intents and purposes, a systematic technique like repertory grid helped us in developing paths between 'elements' (which in our case were the 'stakeholders') and the objective of the study (which was to understand 'value-scenarios' through various personal 'constructs'). These 'constructs' were generally described as ideas expressing perceptions of the participants for making sense of 'elements' introduced by the researcher (Bjorklund, 2008; Jankowicz, 2004).

The repertory grid technique required a question to be presented in a particular way to the study participants. In our study, the question for the practitioner participant group stated, "in terms of your firm creating value for stakeholders, how are two of this triad of elements similar to each other and different from the third"? The question description was slightly modified to suit the scholar participant group, which stated, "in terms of a firm most familiar to you creating value for its stakeholders, how are two of this triad of elements similar to each other and different from the third"? The same question was posed to the participants belonging to the start-up, growth and mature OLC stages. We conducted these repertory grid interviews and generated various levels of analyses using the Repertory Grid's version 5 enterprise software package that we refer to as Rep 5 here onwards (Gaines & Shaw, 2010).

4.2.3 Element Selection

Elements in this study were purposefully selected, which allowed us to analyze multiple partial repertory grids together (Shaw, 1980). Offering the elements to participants also ensured the researchers' control over the interview goals (Stewart et al., 1981). It was advised to include at least

one set of nine discrete and homogenous elements – covering both sides of the defining boundary while working with elements (Easterby-Smith, 1980; Stewart et al., 1981; Bjorklund, 2008).

Following this strategy in our study, a total of nine business stakeholders were identified as elements and were allocated as customers, financiers, communities, suppliers, employees, environment, government, trade associations, and non-governmental organizations (NGOs). This chosen set showed a balanced representation of both internal / external, primary / secondary, as well as economic / non-economic stakeholders that was intended to allow us to capture a broader view of a standard technology-driven business organization creating value for a variety of stakeholders.

4.2.4 Construct Elicitation

The data in a repertory grid were recorded when a participant provided two bi-polar anchors to a construct on a continuum of 1 to 9. This was done after reviewing three randomly drawn elements (triadic elicitation) – categorizing two of the elements similar to each other while differentiating them from the third. The participant was then asked to name the property defining the two similar elements. This construct was anchored at one pole while the respondent was again asked to name the opposite pole with a contrasting extreme. A 'laddering' technique was used to further understand the theme behind the elicited constructs. This was for the purpose of reducing any compounded attributes. Next the remaining elements were then rated on each elicited bi-polar construct continuum of 1 to 9 (where the similarity pole was anchored at 1 and the different pole at 9). This process was repeated until all the elements were exhausted or respondents ran out of fresh constructs (Diaz De Leon & Guild, 2003; Bjorklund, 2008; Shah, 2011; Day, 2013).

4.2.5 Reliability And Validity Of Repertory Grids

Considering the reliability and validity of using repertory grids for exploratory studies has been an important topic of discussion in the literature. A recent article by Edwards et al. (2009) explained about the role of repertory grids to attain high-level face, content and construct validity (especially, in the case of partial repertory grid designs where the researchers supplied elements and elicited constructs). This was because the content of the grids emerged directly from the study participants. They also discussed that repertory grid technique supported the reliability issue of internal consistency due to its ability to reveal significant correlations among the elicited constructs. However, the test-re-test reliability issue remained questionable when using repertory grids for exploratory research designs. This notion was consistent with Kelly's original claim that human beings were constantly evolving and test-retest reliability measure showed how a person had developed (or not) over time (Diaz De Leon & Guild, 2003; Edwards et al., 2009; Day, 2013). By using repertory grids, we may not fully duplicate the findings when replicating the same study, but that may allow the advancement of new learning about the research question under exploration (Edwards et al., 2009).

4.2.6 Phase-1 Interview Protocol

The interview protocol in Phase-1 was designed for an hour-long meeting with the participants and it included open-ended, partially open-ended and close-ended questions (see Table 5 & Appendix A). A hard copy of the interview protocol was also provided to the participant during the meeting. They were given the option to write their answers for open-ended or partially open-ended questions themselves or let the graduate researcher take notes.

Table 5: Specifications Of Measures Used In Phase-1 Interview Protocol

OPEN-ENDED QUESTIONS	PARTIALLY OPEN-ENDED QUESTIONS		CLOSE-ENDED QUESTIONS			
	Nominal Variable	Interval Variable / 9 – Point Likert Scale	Nominal Variable	Ordinal Variable	Semantic Differential Variable	
Q1b, Q4, Q10, Q11, Q12a, Q12b, Q13, Q17a, Q17b, Q17c, Q17d, Q17e	Q1a, Q2, Q3, Q5, Q7, Q8, Q9, Q14	Q21a, Q21b, Q21c, Q22a, Q22b, Q22c	Q6, Q15, Q18, Q19	Q24	Q16, Q20a, Q20b, Q20c, Q23	
12 Questions	8 Questions	6 Questions	4 Questions	1 Question	5 Questions	

Table 6 summarizes the focus of each section in the questionnaire used in Phase-1 protocol, alongwith the question item specifications.

Table 6: Section Details Of Questions Used In Phase-1 Interview Protocol

Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7
Purpose	Instructions	Demographic Information	Understanding of OLC Stages	Repertory Grid Technique	Understanding of Business- Stakeholder Engagement Models	Appreciation
Information Letter	Consent Form	Q1 – Q16	Q17 – Q19	Rep Grid Enterprise Application / Cue Cards ¹³	Q20 – Q24	Feedback Letter

At the beginning of the interview, the graduate researcher asked for participants' written consent to audio record the interview sessions, for re-confirming notes and ensuring high face validity of the given answers. All 18 participants in the Phase-1 study expressed their agreement to the audio recordings. For the analyses of gathered data from Phase-1, the doctoral researcher conducting interviews compared documented notes with audio-recorded files and the answers written by the participants on their hard copies of the provided instrument. Table 7 summarizes the interview

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¹³ See cue card in Appendix B.

duration and total time spent on verifying gathered qualitative and quantitative data. Out of all 18 audio-recorded files, one file became corrupted during data transferring from the recorder to the computer. However, the researcher contacted that participant later to validate the qualitative answers during the interview.

Table 7: Summary Details Of Interview Process And Validation Checks During Phase-1 Study

No. Of Face- To-Face Interviews	Total Duration Of Interviews	Interview Duration Range	Average Interview Duration Per Participant	No. Participants Agreeing To Audio Digital Recording	Total Duration Of RepGrid Sessions	Duration Of Rechecking Of Valid Construct Categories And Qualitative Data
18	20 Hours (approx.)	40 Minutes (min) – 127 Minutes (max)	70 Minutes	18	11 Hours	15 Hours

The doctoral researcher was responsible for handling both, paper-based questionnaire and computer-based Rep 5 application during the interview. Prior to this project, the doctoral researcher had extensively worked on similar research projects, involving both paper based and computer aided research protocols. It was believed that a well-trained doctoral researcher could effectively and efficiently conduct the interviews single handedly without having to train new research assistants. At the end of the interview, the participants were also offered C\$25 Amazon gift cards as token of appreciation.

4.3 Phase-2: Survey Study Design

In the second phase of our exploratory study we used an online survey platform to conduct a repeated measures study design. This study design helped us to expand on the Phase-1 observations and focused on finding the receptiveness of ICT-sector firms at different OLC stages toward understanding various business-stakeholder engagement models.

Figure 2: Overview Of Research Design In Phase-2

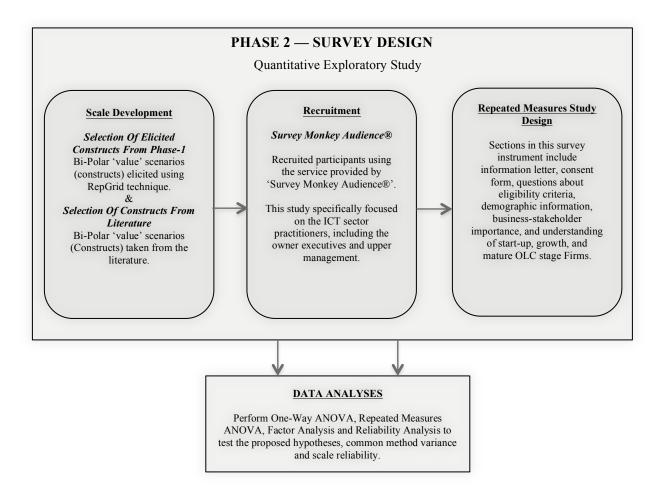


Figure 2 shows an overview of the Phase-2 of our exploratory study. We worked with the elicited constructs from Phase-1, along-with the constructs gathered from literature to develop a measurement scale. We decided to conduct this experiment using online survey method for the reasons of low cost, reduced survey return time, and easier accessibility (Ilieva et al., 2002; Evans & Mathur, 2005; Sue & Ritter, 2007; Babbie, 1990).

In summary, Phase-2 exploratory study enabled us to:

- Test our proposed hypotheses about ICT-sector firms at three OLC stages (start-up, growth, mature) creating 'value' for their stakeholders,
- Evaluate internal consistency of the measurement scale developed after Phase-1 to capture business-stakeholder engagement 'value', and
- Develop well-directed questions about Stakeholder and OLC theories for further research in the light of gathered evidence.

4.3.1 Measurement Scale And Survey Instrument Development

The development of the measurement scale for this stage (Phase-2) is based on the new learning from Phase-1 study and the existing concepts from the relevant literature (see Chapter 3). The approach to use what was already available from literature along-with the findings of exploratory studies, a well established approach in the scale development literature (Churchill, 1979; Strauss & Cobin, 1990). In this section, we presented our rationale behind the structure of the questionnaire and the measurement scales used in the study.

Our focus of inquiry was limited to only three ICT-sector firm developmental phases, viz., start-up, growth, and mature stages – henceforth, we started with the scale items already developed by Kallunki and Silvola (2008, page 77-78), and the demographic section developed by Noriega (2013). The sequence and wordings of relevant items used in that scale were modified to match the purpose of our research. We also excluded the items related with the 'activity-based costing' in the instrument developed by Kallunki and Silvola (2008).

A repeated measures survey protocol, with multiple items scale was designed, requiring less than 15 minutes of participant's engagement. It included open-ended, partially open-ended and close-ended questions (see Table 8 & Appendix E). Following the requirements from the office of research ethics (ORE) involving human participants, a detailed information letter was provided to the

participants at the start of the survey. A consent form along-with our contact information was also provided to encourage participants to express their feedback and concerns directly.

Table 8: Specifications Of Questions Used In Phase-2 Survey Instrument

OPEN-ENDED QUESTIONS	PARTIALLY OPEN- ENDED QUESTIONS	CLOSE-ENDED QUESTIONS				
	Nominal Variable	Dichotomous Variable	Nominal Variable	Interval / 7 – Point Likert Scale	Semantic Differential Variable	
Q8, Q9, Q16, Q17, Q18, Q19, Q20	Q6, Q7, Q10, Q11, Q14, Q15, Q21	Q1, Q2, Q3, Q4, Q5	Q12, Q13, Q22, Q24	Q25, Q26, Q27, Q28	Q23, Q29	
7 Questions	7 Questions	5 Questions	4 Questions	4 Question	2 Questions	

Table 9 summarizes the focus of each section in the questionnaire used in Phase-2 protocol, alongwith the question item specifications.

Table 9: Section Details Of Questions Used In Phase-2 Survey Instrument

Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7
Purpose	Consent Form	Eligibility Criteria	Demographic Information	Declaration of Relevant OLC Stage And Stakeholder Importance View	Understanding of Business- Stakeholder Engagement Models	Appreciation
Information Letter	Q1	Q2 – 5	Q6 – Q23	Q24 – Q25	Q26 – Q29	Feedback Letter

In our survey, we included 14 open-ended and partially open-ended questions with a purpose to validate our selected sample of well-experienced ICT-sector experts. These targeted questions were included in the demographic section of survey.

4.3.2 Sample Selection

Our criteria for inclusion of respondents in Phase-2 of the study comprise of participants: (1) physically located in the region of United States of America, (2) affiliated, either full-time or part-time, with a for-profit business organization, (3) affiliated with an Information and Communications Technology (ICT) sector organization, specializing in any of the domains of mobile, software, hardware, Internet, social interaction, and media related technology, (4) affiliated with a firm that operates in the region of United States of America, and (5) be at least 18 years old.

For this exploratory phase, we were interested in recruiting owner executives and senior management individuals at the ICT-sector firms fulfilling our inclusion / exclusion criteria to participate. The range of targeted respondents included, CEOs, directors, assistant directors, and company managers. We hired paid services of SurveyMonkey Audience® (SMA) to recruit an approximate sample of 150 participants who fulfilled our required criteria. With an objective of reducing error variance associated with differences among individuals and increasing statistical power of our results, a repeated measures survey study was designed.

In Phase-2, one major consideration influenced our decision to hire a paid recruitment service was Canada's new anti-spam legislation (CASL), which prohibits researchers from sending study recruitment e-mails without recipients' consent. To receive consent from relevant firms' gatekeepers about their employees participating in the study was believed to be impractical and time consuming. Therefore, to ensure respondents' anonymity, privacy, confidentiality and random selection of sample from the focused population, we decided not to continue with convenience samples by recruiting students or personal contacts. Alternatively, the option of hiring a reliable and externally valid online recruitment service was selected. According to Brandon et al. (2014), SMA is classified as one of the effective non-traditional online participant recruitment platforms – specializing in recruiting targeted

and externally valid audience for academic research studies¹⁴. They (Brandon et al., 2014) also argued that the survey instrument must be simple, easily understandable and not very lengthy to be effective for tools like SMA.

We followed a set procedure of requesting a quotation from SMA in Phase-2, which is based on survey length, targeting criteria and number of fully completed responses. We provided our study's web-link to their representative, along-with the outlined recruitment criteria and an approximate number of 150 fully completed responses for an accurate cost and time estimation. The project was estimated at a total cost of USD 2,437.50 (i.e. USD 16.25 per completed response) with an expected survey completion time of less than15 minutes. SMA used their partner company CINT, to administer our project as they deal with more specialized pools of participants¹⁵. Two project managers from SMA were assigned to overlook the project progress. The online survey collection remained open for 24 days (from February 4 to February 27, 2015). Two e-mail reminders were sent with a 10-day gap to encourage potential participants — one on February 14 and the next on February 25, 2015 (see Figure 3). On March 1, 2015, the researcher closed the project with SMA, as the list of potential respondents was fully exhausted. The respondents were given an incentive of up to USD 5 by CINT (SMA's partner firm) for this survey. As per their reward policy, the respondents had the options to 1) donate their earnings to charity, 2) take it in cash via PayPal, or 3) use it for online purchases. Such

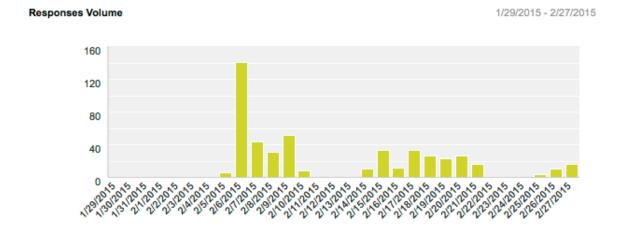
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¹⁴ For more details about alternative platforms to SMA, see Brandon et al. (2014). The readers can also review various advantages, disadvantages, and comparative details about SMA, Qualtrics and Amazon's Mechanical Turk (AMT) as effective online recruitment services in the context of behavioural accounting research.

¹⁵ Visit the following URL for more information about online research guidelines of CINT, a specialized recruitment platform partnered with SMA: http://clearslide.com/view/mail?iID=JUNR4WTHLYTL93V7HJB6

incentive levels were set by CINT to discourage professional respondents who have a sole purpose of obtaining monitory remuneration¹⁶.

Figure 3: Online Survey Response Timeline



SMA platform offers access to approximately 1,000,000 respondents from diverse backgrounds and age (Kavanaugh et al., 2013; Brandon et al., 2014); however, the relevant pool of respondents was estimated at 2,200 individuals – that consist of owner executives and senior managers from the targeted ICT-sector.

Table 10: Overview Of Survey Responses

Invitations To SMA's Population Of Interest	Survey Attempts	Removed Data Cases			Usable Data Cases
		No. Of Ineligible Responses	No. Of Invalid Responses	Total	
2,200	489 (22.2%)	189 (8.6%)	168 (7.6%)	357 (16.2%)	132 (6.0%)

¹⁶ For more details on the reward system of CINT, see Slide 4 (Question 14) at the link provided in Footnote 13.

The overall response rate of this survey was 22.2% with 489 response attempts, which is consistent with the findings of a study conducted by Sheehan (2001), showing the average response rate to be decreasing with the increase of online data collection¹⁷. Out of these 489 attempts, 189 were considered ineligible following our eligibility questionnaire at the beginning of the instrument. These respondents did not proceed further than the Eligibility Section of the survey. The remaining 300 respondents were than vetted on the grounds of incomplete data and nonsensical responses with the help of two SMA project managers. The criteria for excluding responses at this stage were based on invalid characters and information provided in the demographic section of the questionnaire, which was purposefully designed to confirm the validity of responses (Section 4.3.1). As a result, a total of 132 fully completed respondents were considered usable for data analyses (see Table 10).

4.3.3 Validity And Reliability Of Phase-2 Study Design

This section is focused on acknowledging the issues related with reliability and validity of Phase-2 research design. In an effort to maintain quality of scientific research process and its findings, we took certain measures for designing and administering the survey study. We also understand that the objective of conducting Phase-2 study was to further explore the perceptions of ICT-sector experts from the United States of America toward various business-stakeholder engagement models. In terms of generalizability, we do not claim that the findings from this study would become generalizable to other ICT-sector settings or industries. However, we believe that the results from Phase-2 exploratory study would equip us to conduct more controlled confirmatory studies in future with an objective to further enhance the internal validity, but at the same time conduct it with a more generalizable inclusion / exclusion criteria to provide better externally valid results.

 $^{^{17}}$ In year 2000, the mean response rate of e-mail surveys dropped to 24% from a 61.5% response rate in year 1986.

According to Campbell and Stanley (1963), several external factors can produce confounded effects that undermine the inferences from experimental design research studies. Ferguson (2004) suggested that strict controls for the purpose of improving internal validity of research could compromise the findings' generalizability. Therefore, we tried to address the issues of external validity, along-with strategies to measure and control for internal validity to infer stronger and valid research results. By randomly selecting the sample from a representative population of senior ICT-sector practitioners does not resolve the external validity issue (Cook & Campbell, 1979; Singleton & Straits, 1993). In our study design we acknowledge that there was little ecological control – limiting the ability to generalize research findings.

For the purpose of ensuring construct validity, we provided definitions of the three OLC stages, along-with the characterization about various organizational stakeholders in the survey. One of the main purposes of conducting Phase-1 study was to identify more valid definitions of the constructs for further analysis in Phase-2. The three OLC conditions and the dependent variables in our survey were presented to the respondents in a random order. We pre-tested our survey instrument on a similar sample of representation to further improve the instrument and clarify potential ambiguities in its wordings. Following the suggestion by Shadish et al. (2002), we refrained from using wording that could result in an expected and desirable outcome. In terms of addressing the issue of reliability, we have clearly stated the rules of inclusion / exclusion of participation, along-with step-by-step process details of conducting Phase-1 and Phase-2 studies.

In addition to the issues of validity and reliability of study results in research like ours, we further tested the results for having significant common method biases that are generally associated with similar behavioral studies (discussed in Chapter 6, Section 6.3). According to Podsakoff et al. (2003), research method biases create systematic errors in the research results, which affect the validity of research results. In their (Podsakodd et al., 2003) list of potential causes of biases in social research,

common 'method rater effects', 'item characteristic effects', 'item context effects', and 'measurement context effects' are discussed¹⁸. To deal with the problem of social desirability, we provided our respondents with an option to skip any question. We also ensured our participants that their identities will be kept confidential and anonymous. To account for any serious limitations posed by common method bias, we applied a widely used Harman's single-factor technique to test our results (discussed in Section 6.3).

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¹⁸ See the summary of potential sources of common method biases by Padsakoff et al. (2003) for more details. In this list with some sub-items are more prominent and relevant to our study than others.

Chapter 5

Findings Of Phase-1: Exploratory Field Study

In our first phase of research exploration, we elicited value-creating constructs gathered from scholars and practitioners from the start-up, growth, and mature OLC stage ICT-sector firms. The purpose was to investigate the perceived emergent constructs about ICT-sector firms creating 'value' for various primary and secondary organizational stakeholders. In this chapter we present idiographic and nomothetic results gathered from the study. These are distributed over five sections. First section provides descriptive characteristics of Phase-1 study participants (Section 5.1). Second section assesses the repertory grid idiographic data analyses (Section 5.2). Third section evaluates the repertory grid nomothetic data analyses (Section 5.3). Fourth section presents the differentiating characteristics between start-up, growth, and mature OLC stages (Section 5.4). Fifth section summarizes the discussion of the overall Phase-1 results (Section 5.5).

5.1 Participants

Our study included a heterogeneous sample of eighteen ICT-sector business 'scholars' and 'practitioners', persons who were specialized in mobile, software, hardware, media and social interaction technological domains. These inclusion criteria were purposefully followed to comprise adult respondents from the region of Southern Ontario, participants who self-stated their association with one of the three selected OLC stages for our study.

For the 'scholars' group, nine graduate students from the programs related to computer sciences, business administration, social innovation, and technological entrepreneurship were selected for the interview with three participants representing each of the start-up, growth and mature developmental stages. Similarly, another group of nine senior level practitioners were interviewed from the ICT-

sector with three participants characterizing each of the start-up, growth and mature stages. A demographic descriptive detail about our sample groups can be seen in Table 11.

According to the literature, the use of the repertory grid technique often necessitates operating with a relatively small sample size to elicit adequate unique constructs for a study (Botterill & Crompton, 1996; Tan & Hunter, 2002; Naoi et al., 2006). This approach has proven to be useful in further developing research instruments, such as survey questionnaires for conducting studies that were suited for larger sample sizes (Tan & Hunter, 2002).

5.2 Repertory Grid Idiographic Data Analyses

We have performed idiographic analyses to understand how experts (scholars and practitioners) from the ICT-sector – representing the start-up, growth and mature OLC stages – perceived the notion of creating 'value' for their perceived range of stakeholders. Individual level hierarchical cluster analysis was conducted to focus on how each participant grouped their constructs and elements together. Then we conducted principal component analysis, along with studying the percentage of variance accounted for by the first factor (PVAFF) to determine the cognitive complexity of our study participants.

Table 11: Descriptive Characteristics Of Participants In Phase-1 Study

	Start-Up OLC Group	Growth OLC Group	Mature OLC Group
Recent ICT Role	Mean 4.3; SD 2.6;	Mean 9; SD 6.1;	Mean 3.8; SD 2.5;
Experience (Years)	<i>Range</i> 1 − 9	<i>Range</i> 1 – 20	<i>Range</i> 1 − 8
m . 1. cm c	1. 0	14.0 00 44	16 00 00 56
Total ICT Sector	Mean 8.5; SD 7.2;	Mean 14.3; SD 6.6;	Mean 9.3; SD 5.6;
Experience (Years)	<i>Range</i> 4 − 23	<i>Range</i> 5 – 25	<i>Range</i> 2 – 18

	Sample	No. Of	Sample	No. Of	Sample	No. Of
	Size	Responses	Size	Responses	Size	Responses
Scholars	3 (50.0%)		3 (50.0%)		3 (50.0%)	
Practitioners	3 (50.0%)		3 (50.0%)		3 (50.0%)	
Total	6 (100 %)		6 (100 %)		6 (100 %)	
Recent ICT Role	,				, ,	
Entrepreneur	4 (66.7%)		1 (16.7%)		_	
Business Manager	-		-		4 (66.7%)	
Academic Researcher	1 (16.7%)		_		-	
Consultant	1 (16.7%)		_		2 (33.3%)	
Software Developer	-		1 (16.7%)		-	
Project Manager	_		2 (33.3%)		_	
Product Developer	_		1 (16.7%)		_	
Head of Marketing	_		1 (16.7%)		_	
ICT Sector Focus			1 (10.770)			
Mobile		2 (33.3%)		3 (50.0%)		5 (83.3%)
Software		6 (100 %)		6 (100 %)		6 (100 %)
Hardware		2 (33.3%)		2 (33.3%)		2 (33.3%)
Internet		5 (83.3%)		6 (100 %)		4 (66.7%)
Social Interaction		2 (33.3%)		2 (33.3%)		1 (16.7%)
Sociai Interaction Media		1 (16.7%)		2 (33.3%)		1 (10.770)
Job Title		1 (10.770)		2 (33.370)		-
Researcher	1 (16.7%)		1 (16.7%)		4 (66.7%)	
Consultant	,		1 (10.776)		4 (00.770)	
	1 (16.7%)		1 (16 70/)		-	
Product Developer Software Developer	-		1 (16.7%)		-	
	-		1 (16.7%)		1 (1(70/)	
Manager	-		1 (16.7%)		1 (16.7%)	
Director	1 (1(70/)		1 (16.7%)		1 (16.7%)	
Business Owner	1 (16.7%)		1 (16 70/)		-	
Chief Executive Officer	2 (33.3%)		1 (16.7%)		-	
Chief Technology Officer	1 (16.7%)		-		-	
Highest Completed						
Education Level			. (22.22()			
College Diploma	-		2 (33.3%)		-	
Undergraduate Degree	-		1 (16.7%)		2 (33.3%)	
Master's Degree	6 (100 %)		3 (50.0%)		4 (66.7%)	
Education & Training						
Life Sciences		1 (16.7%)				-
Computer Sciences		3 (50.0%)		6 (100 %)		3 (50.0%)
Physical Sciences		1 (16.7%)		1 (16.7%)		-
Arts/Humanities		3 (50.0%)		1 (16.7%)		-
Engineering		2 (33.3%)		2 (33.3%)		2 (33.3%)
Social Sciences		-		-		2 (33.3%)
Mathematics		2 (33.3%)		1 (16.7%)		-
Business		6 (100 %)		3 (50.0%)	1	4 (66.7%)
Age					1	
Between 26 and 35 years	6 (100%)		3 (50.0%)		4 (66.7%)	
Between 36 and 45 years	-		3 (50.0%)		1 (16.7%)	
Between 46 and 55 years	-		-		1 (16.7%)	

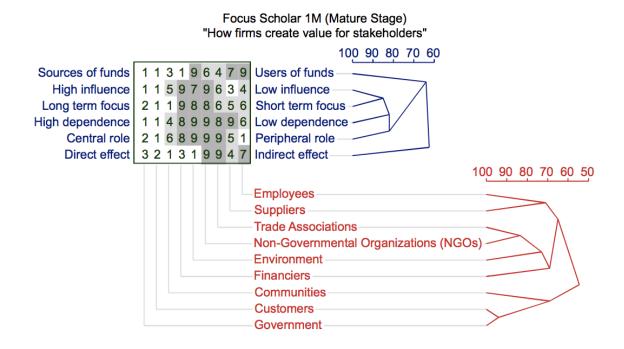
5.2.1 Cluster Analysis Of Individual Grids

A standard 'focus' algorithm setting in Rep 5 with the 'power' value of 1.0 and the 'cut off' values of 25.0 for both elements and constructs allowed us to compute the matching scores and developed a visual output for each of our study participants (Shaw, 1980; Gaines & Shaw, 2010).

We performed hierarchical cluster analysis for individuals belonging to each of the start-up, growth and mature OLC groups to determine similarity of constructs and elements in a hierarchical illustration. Instead of showing each grid analysis here, a scholar participant (Scholar 1M) from mature stage OLC group was selected as an example that demonstrated the interpretation of dendograms created from repertory grid interviews. The algorithm used in 'focus' program calculated the summed differences by columns and rows for each grid and provided a graphical output with similarity patterns between the elements and constructs on a 9-point rating scale (Shaw, 1980).

Figure 4 displayed six constructs elicited by Scholar 1M during the interview, thus describing how he perceives a firm most familiar to him creating 'value' for their given stakeholders. The data set shows perceived contribution to 'value-creation' by nine type of stakeholders (elements) using six emergent constructs. The elicited constructs, 'High influence—Low influence' and 'Long term focus—Short term focus' on a continuum of 1 to 9 are highly matched together at 84.7%. These constructs also link with 'Low dependence—High dependence' and 'Peripheral role—Central role' constructs at 81.9%. This high degree matching of constructs permit the researcher to group them together in a meaningful manner. Similarly, the stakeholder elements, 'Customers' and 'Government' were linked at the highest level of 93.8% — construing government to be exhibiting similar meaning of customers for this participant. Also, the stakeholders, 'Trade Associations' and 'Non-Governmental Organizations' (NGOs) formed a match at 83.3% level.

Figure 4: Focus Output Of Constructs And Elements Of Individual 'Scholar 1M'



5.2.2 Principal Component Analysis

We conducted principal component analyses using *PrinGrid* feature of Rep 5 to understand each individual's description of the connections between stakeholders (elements) and the elicited 'value' scenarios (constructs). This also provided us with a view about the cognitive complexity that ICT-firm experts from different OLC stages use when assessing stakeholders. For instance, Figure 5 showed an example of a loose construct structure; further, Figure 6 showed a tight construct structure, characterizing high and low cognitive complexity respectively (Smith & Stewart, 1977; Diaz De Leon & Guild, 2003).

Figure 5: PrinGrid Output Of Individual 'Practitioner 1G' To Show Construct Structure

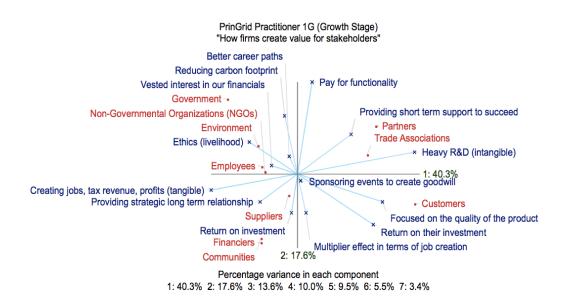
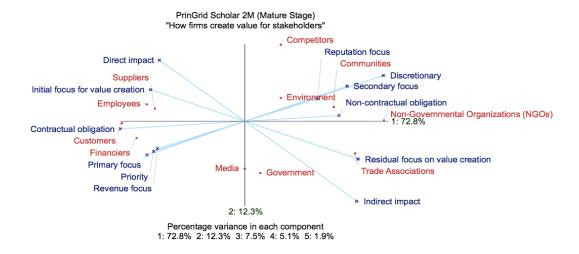


Figure 6: PrinGrid Output Of Individual 'Scholar 2M' To Show Construct Structure



The PrinGrid output reflects on the elements plotted in a 2-dimensional space (rotated through principal component analysis), which is defined by the constructs as axes centered on the means of

the elements (Gaines & Shaw, 2010). The relative length of the line connecting bi-polar constructs shows the variance of ratings (from 1 to 9) on the elicited constructs (Jankowicz, 2004).

A summary Table 12 showed the variances explained by each component for our study participants. 'Practitioner 1G' exhibited the lowest (72%) cumulative variance being explained by its components 1, 2 and 3 (Table 12) – demonstrating multi-dimensionality in eliciting 'value' scenarios about stakeholders. Similarly, 'Scholar 2M' demonstrated the highest (93%) cumulative variance being explained by its components 1, 2 and 3 – signifying lesser dimensionality in responses.

Table 12: Principal Component Loadings For Each Participant

		Principal Components					
•	1	2	3	4	5	1+2+3 (%)	
Start-up Stage							
Scholar 1S	43.8	19.0	15.1	12.3	4.6	78	
Scholar 2S	50.4	23.5	9.1	7.8	5.0	83	
Scholar 3S	50.0	21.2	11.8	9.5	5.3	83	
Practitioner 1S	42.9	22.7	20.4	7.9	6.2	86	
Practitioner 2S	44.4	25.6	14.6	6.7	5.1	85	
Practitioner 3S	33.2	23.2	17.1	11.7	6.7	74	
Growth Stage							
Scholar 1G	44.4	29.2	15.8	7.7	2.8	89	
Scholar 2G	55.3	16.3	10.8	9.8	5.5	82	
Scholar 3G	52.3	20.8	18.3	7.1	1.4	91	
Practitioner 1G	40.3	17.6	13.6	10.0	9.5	72	
Practitioner 2G	47.9	25.7	11.0	10.8	2.4	85	
Practitioner 3G	44.8	22.4	14.9	9.3	6.1	82	
Mature Stage							
Scholar 1M	62.6	17.7	12.5	4.4	2.0	93	
Scholar 2M	72.8	12.3	7.5	5.1	1.9	93	
Scholar 3M	52.9	25.5	9.7	8.0	3.9	88	
Practitioner 1M	41.7	20.6	10.6	10.5	6.8	73	
Practitioner 2M	36.3	33.8	16.8	6.8	4.1	87	
Practitioner 3M	39.4	26.0	16.5	10.4	5.6	82	

5.2.3 Variance Explained

A closer analysis of percentage of variance accounted for by the first factor (PVAFF) allowed us to examine how each of the participant's 'cognitive complexity' varied across the different sample groups (Table 13). With repertory grids, a lower value of PVAFF indicates multiple dimensions in expressing the main meaning, whereby; a higher value depicted the meaning in fewer dimensions (Baldauf et al., 2010).

Table 13: Details About The PVAFF

	No. Of Bi-Polar Constructs	PVAFF	Mean (SD)	Range
Start-up Stage				
Scholar 1S	7	43.8		
Scholar 2S	7	50.4		
Scholar 3S	6	50.0	48.1 (3.7)	43.8 - 50.4
Practitioner 1S	5	42.9		
Practitioner 2S	7	44.4		
Practitioner 3S	8	33.2	40.2 (6.1)	33.2 - 44.4
Group Total	40		44.1 (6.2)	33.2 - 50.4
Growth Stage				
Scholar 1G	5	44.4		
Scholar 2G	6	55.3		
Scholar 3G	5	52.3	50.7 (5.6)	44.4 - 52.3
Practitioner 1G	7	40.3		
Practitioner 2G	7	47.9		
Practitioner 3G	6	44.8	44.3 (3.8)	40.3 - 47.9
Group Total	36		47.5 (5.5)	40.3 - 52.3
Mature Stage				
Scholar 1M	6	62.6		
Scholar 2M	6	72.8		
Scholar 3M	5	52.9	62.8 (10.0)	52.9 - 72.8
Practitioner 1M	8	41.7		
Practitioner 2M	6	36.3		
Practitioner 3M	6	39.4	39.1 (2.7)	36.3 - 41.7
Group Total	37		51.0 (14.5)	36.3 - 72.8

Overall, the means of PVAFF for the scholars in the start-up, growth and mature group samples were 48.1 (*SD* 3.7; *Range* 43.8 to 50.4), 50.7 (*SD* 5.6; *Range* 44.4 to 52.3), and 62.8 (*SD* 10.0, *Range* 52.0 to 72.8) respectively. Relative to the level of cognitive complexity of the grids in the practitioners group, the means for the start-up, growth and mature groups turned out to be 40.2 (*SD* 6.1; *Range* 33.2 to 44.4), 44.3 (*SD* 3.8; *Range* 40.3 to 47.9), and 39.1 (*SD* 2.7; *Range* 36.3 to 41.7) respectively. We take this to mean that individuals differ in their construction of the universe according to the 'individuality corollary' of Personal Construct Psychology (PCP).

The variability of data across individuals portrayed idiosyncrasies of personal constructs that allowed for knowledge acquisition according to the original perspective of 'constructive alternativism' by George Kelly (Shaw & Gaines, 1982). It means that experience construes people's reality and redefinition of their constructs appraises their understanding of the universe (Kelly, 1955). According to the 'commonality corollary' of Personal Construct Psychology (PCP), the variability in individual responses should not stop us from analyzing them together as a group. Kelly (1955) reasoned that unique constructs of individuals might be classified together according to the general meaning associated based on their common considerations and features.

5.3 Repertory Grid Nomothetic Data Analyses

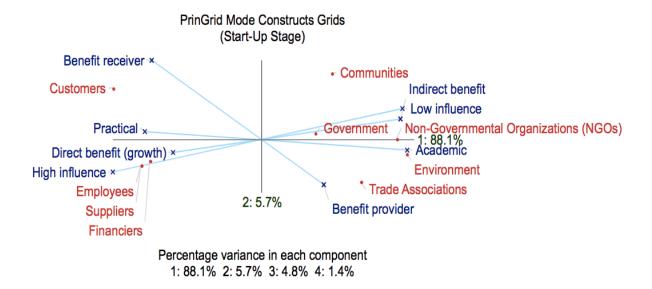
Subsequently, nomothetic analyses were conducted by combining the grids to reveal how the participants in the start-up, growth and mature groups perceive 'value' scenarios for their stakeholders. We aggregated the data for each of the start-up, growth and mature groups (comprising of three scholars and three practitioners in each) by using the *mode grid* feature of the RepSocio function in Rep 5.

5.3.1 Mode Grids Analyses

The purpose of these analyses was to find common constructs. The mode grids for each of the start-up, growth and mature stage groups were computed using standard Rep 5 settings with a match level 'cut off' statistic of 78.0. As a result, mode constructs represented the overall perceptions of the participants for common elements through the highest matched scores of the constructs in all grids within that group at or above the pre-determined match level (Shaw, 1980; Yeung & Watkins, 2000; Gaines & Shaw, 2010). According to Shaw (1980), mode grids are most helpful for examining the relative positions, terms and values of the members of the groups under investigation. In Rep 5 we can set the cut off threshold to any level; in this case, by selecting 78.0 as the cut off statistic, we were able to elicit these mode constructs as the most representative 'value' scenarios of the start-up, growth and mature OLC groups for their stakeholders. We take the perspective of analyzing each OLC group separately to better understand the differentiating constructs among them. The gathered mode grid does not represent a 'consensus grid' by merely averaging out the idiosyncrasies of individuals to concoct an imitation of the group – instead it stipulates common interactions of group construing in a strongly weighted manner (Shaw, 1980).

The graphical *PrinGrid* output of start-up group mode constructs (Figure 7) pre-dominantly represented a single dimension, represented by four constructs (displayed on the horizontal axis) that explained 88.1% of the calculated variance (Table 14). Similarly, the *focus* mode constructs output (Figure 8) for the start-up group demonstrated matching of similar constructs and elements through a hierarchical clustering technique. Reversed construct, 'Practical—Academic' linked strongly with constructs 'High influence—Low influence' at 87.5% and with 'Direct benefit of growth—Indirect benefit of growth' at 86.1% (Figure 8). Note that the *focus* algorithm reversed the construct 'Academic—Practical' in this case to determine the highest match with other constructs (Shaw, 1980; Gaines & Shaw, 2010).

Figure 7: PrinGrid Mode Output Of Group Perception At Start-Up OLC Stage



Further considering elements, 'Employees' are linked together with 'Suppliers' at 100% and with 'Financiers' at 96.9%. The output also shows that 'Suppliers' are linked with 'Customers' at 87.5% — forming a cluster of elements that comprise of internal / primary stakeholders together as shown in Figure 8. We can observe another prominent cluster of elements comprising of 'Communities', 'Government', 'Trade Associations', 'Environment', and 'Non-Governmental Organizations' (NGOs) together. These stakeholder groups can be identified as being external or secondary to a business organization.

Figure 8: Focus Mode Output Of Group Perception At Start-Up OLC Stage

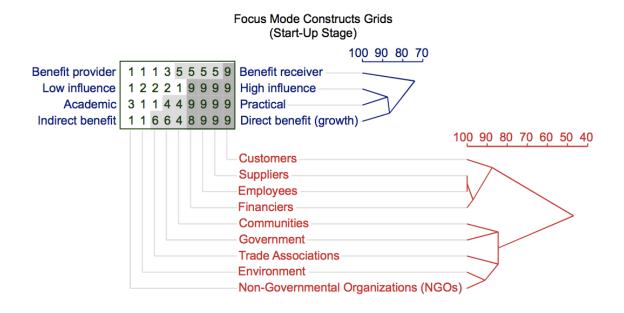


Table 14: Mode Constructs And Elements Of Group Perception At Start-Up OLC Stage

Percentage Variance In Each Component For Start-up Stage Firms

1	2	3	4	
88.13	5.73	4.76	1.38	%
88.13	93.86	98.62	100.0	Cumulative %

Element (Stakeholder) Loadings On Each Component For Start-up Stage Firms

-	1	2	3	
1	-1.56	-0.28	0.04	Employees
2	-1.92	0.57	-0.05	Customers
3	-1.44	-0.23	0.25	Financiers
4	-1.56	-0.28	0.04	Suppliers
5	0.90	0.73	-0.13	Communities
6	1.87	-0.16	0.40	Environment
7	0.69	0.08	-0.41	Government
8	1.75	0.02	0.50	Non-Governmental Organizations (NGOs)
9	1.28	-0.45	-0.65	Trade Associations

Construct ('Value-Scenario') Loadings On Each Component For Start-up Stage Firms

	1	2	3	
1	-2.43	0.15	0.40	Academic—Practical
2	2.68	0.51	-0.39	Low influence—High influence
3	2.11	0.27	0.88	Indirect benefit of growth—Direct benefit of growth
4	-1.60	0.98	-0.10	Benefit provider—Benefit receiver

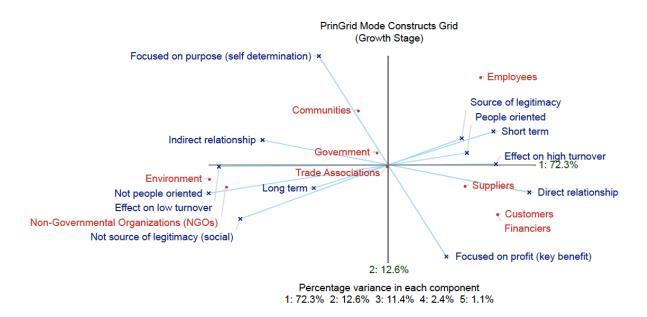
The mode construct analysis of start-up OLC group extracted four components in total, out of which Component 1 (88.13% variance) is of particular significance (Table 14). By using an arbitrary cut-off of 1.0 for the construct loadings on first three components, all of the four constructs loaded on Component 1 (Table 14 – represented by bold typeface). Elements, such as, 'Employees', 'Customers', 'Financiers', 'Suppliers', Environment', 'Non-Governmental Organizations' (NGOs) and 'Trade Associations' loaded on Component 1. The negative sign associated with the component loadings in Table 14 simply tells us the direction of the construct.

On closer examination, these four constructs loaded on Component 1 (88.1% variance) revealed that ICT-sector start-up stage firms perceive 'value' creating scenarios for their stakeholders broadly, rather than only a narrow economic view. In other words, the major theme that explains most of the variance in the start-up group revolves around creating influence, demonstrating practicality, and extending benefits to multiple stakeholders.

The graphical *PrinGrid* output of growth group mode constructs showed five component loadings (Figure 9), one of which, Component 1 was seen to be of particular interest as it explained high variance of 72.3% within the model. *Focus* analysis of mode constructs belonging to growth OLC group displayed strong links between 'Effect on high turnover—Effect on low turnover' with 'People oriented—Not people oriented' at 88.9%, and with 'Direct relationship—Indirect relationship' at 83.3% level. Construct, 'Not source of social legitimacy—Source of social legitimacy' was linked at 86.1% with 'Not people oriented—People oriented', while, 'Long term—Short term' construct

matched at 80.6% with 'Indirect relationship—Direct relationship'. Graphically these constructs formed a cluster as shown in Figure 9 that separated itself from a construct, 'Focused on purpose (self determination)—Focused on profit (key benefit)'.

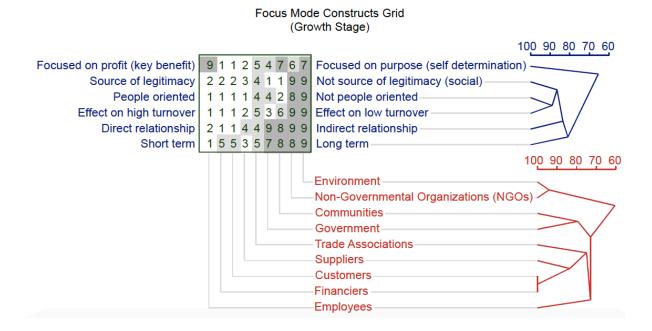
Figure 9: PrinGrid Mode Output Of Group Perception At Growth OLC Stage



Similarly, elements, such as 'Customers' and 'Financiers' linked at 100.0%, with no difference in the ratings of six mode constructs exhibited in Figure 10. 'Environment' and 'Non-Governmental Organizations' (NGOs) also linked closely at 93.8%, whereas, 'Suppliers' connected with 'Customers' at 83.3%, then with 'Trade Associations' at 75.0%. Elements 'Communities' and 'Government', and 'Employees' and 'Financiers' formed links at 79.2%, and at 72.9% respectively. We take this to mean that stakeholder elements for growth stage ICT-sector firms form more than two – primary and secondary – stakeholder clusters as observed in case of start-up stage firms (as shown in Figure 7). We can observe a cluster with 'Customers', 'Financiers', 'Suppliers' and 'Employees' together. Another cluster comprising of 'Environment' and 'Non-Governmental Organizations'

(NGOs) can be observed. A third cluster of 'Communities', and 'Government' stakeholders can also be seen. However, 'Trade Associations' did not emerge in any of the elicited clusters (as shown in Figure 9).

Figure 10: Focus Mode Output Of Group Perception At Growth OLC Stage



Using our arbitrary cut-off value of 1.0 for the construct loadings on the first three components (Table 15 – represented by bold typeface) revealed that only three constructs, 'Low turnover—High turnover', 'People oriented—Not people oriented', and 'Longer term—Short term' have exclusively loaded on Component 1. The remaining constructs, 'Not source of legitimacy (social)—Source of legitimacy', and 'Direct relationship—Indirect relationship' loaded on both Components 1 and 3 respectively. Further, construct 'Focused on profit (key benefit)—Focused on purpose (self-determination)' loaded simultaneously on Components 1 and 2. Next, elements, such as, 'Customers', 'Financiers', 'Suppliers', 'Environment', and 'Non-Governmental Organizations' (NGOs)

exclusively loaded on Component 1. 'Government' also exclusively loaded on Component 3. However, one of the elements, 'Employees' shared its loadings on Components 1 and 2.

In summary, the 'value' creating perspective of ICT-sector growth OLC group can be distinguished as both, economically and non-economically driven for stakeholders (cumulative 84.83% variance in Components 1 and 2). The major themes however, explaining most of the variance in the model (72.25% in Component 1) revolved around the notion of 'value' (being created for stakeholders) related with human involvement, including effects on turnover, people focus and direction intervals.

Table 15: Mode Constructs And Elements Of Group Perception At Growth OLC Stage

Percentage Variance In Each Component For Growth Stage Firms

1	2	3	4	5	
72.25	12.58	11.43	2.39	1.12	%
72.25	84.83	96.26	98.65	99.77	Cumulative %

Element (Stakeholder) Loadings On Each Component For Growth Stage Firms

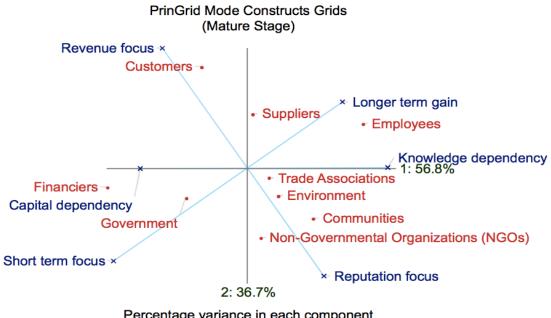
'	1	2	3	
1	1.35	1.30	-0.90	Employees
2	1.60	-0.72	0.01	Customers
3	1.60	-0.72	0.01	Financiers
4	1.12	-0.31	-0.05	Suppliers
5	-0.45	0.80	0.93	Communities
6	-2.63	-0.21	-0.37	Environment
7	-0.18	0.20	1.11	Government
8	-2.38	-0.32	-0.37	Non-Governmental Organizations (NGOs)
9	-0.03	-0.01	-0.35	Trade Associations

Construct ('Value-Scenario') Loadings On Each Component For Growth Stage Firms

	1	2	3	
1	2.27	0.03	0.08	Effect on low turnover—Effect on high turnover
2	-2.11	-0.34	-0.33	Not People oriented—People oriented
3	1.82	0.66	1.10	Not source of legitimacy (social)—Source of legitimacy
4	-2.19	0.43	1.00	Indirect relationship—Direct relationship
5	-1.04	1.64	-0.54	Focused on purpose (self determination)—Focused on profit (key
				benefit)
6	1.47	0.47	-0.84	Longer term—Short term

The graphical *PrinGrid* output of mature group mode constructs showed three component loadings (Figure 11) – two of which, Components 1 and 2 with cumulative variance of 93.6% of particular importance for our analysis. The *Focus* output demonstrated linkage between constructs, 'Capital dependency—Knowledge dependency' and 'Short term focus—Long term gain' at 81.9%, which is then connected with 'Revenue focus—Reputation focus' at 70.8% as exhibited in Figure 12.

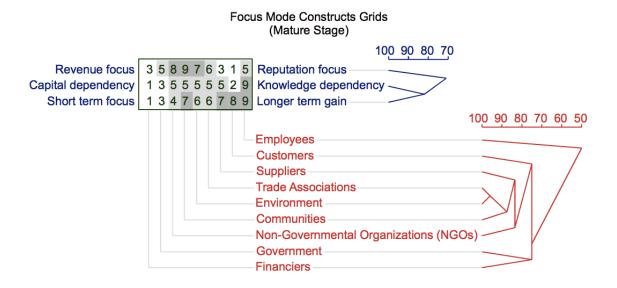
Figure 11: PrinGrid Mode Output Of Group Perception At Mature OLC Stage



Percentage variance in each component 1: 56.8% 2: 36.7% 3: 6.4%

Element 'Environment' formed strong linkage with 'Trade Associations' and 'Communities' at 95.8% and 87.5% respectively. The links between 'Suppliers', 'Trade Associations' and 'Communities', 'Non-Governmental Organizations' (NGOs) at 83.3% developed a cluster of aforementioned stakeholders as exhibited in Figure 12. Also, 'Customers' and 'Suppliers', along-with 'Financiers' and 'Government', both paired with each other at 75% respectively. We take this to mean that stakeholder elements for mature stage ICT-sector firms form a cluster with eight of the nine stakeholders mentioned above – only excluding 'Employees' from it (as shown in Figure 12).

Figure 12: Focus Mode Output Of Group Perception At Mature OLC Stage



Our arbitrary cut-off value of 1.0 for mode construct loadings on different components for mature OLC group (Table 16 – represented by bold typeface) revealed that one construct, 'Capital dependency—Knowledge dependency' exclusively loaded on Component 1. However, construct 'Short-term focus—Longer term gain' loaded on both, Component 1 and Component 2. The remaining construct 'Revenue focus—Reputation focus' loaded on Component 2 exclusively. Next, elements, such as, 'Employees', and 'Financiers' were exclusively loaded on Component 1, whereby, 'Customers' only loaded on Component 2.

The mode construct dimensions represented by ICT-sector mature stage firms divulged that the perception of 'value-creation' for stakeholders corroborated monetary focus at one end, whereby knowledge and reputation anchored at the other. These two dimensions about the narrow economic view of the firms have been explained by their cumulative variance of 93.6%.

Table 16: Mode Constructs And Elements Of Group Perception At Mature OLC Stage

Percentage Variance In Each Component For Mature Stage Firms

1	2	3	
56.82	36.74	6.43	%
56.82	93.57	100.0	Cumulative %

Element (Stakeholder) Loadings On Each Component For Mature Stage Firms

	1	2	3	
1	1.24	0.53	0.42	Employees
2	-0.51	1.19	-0.38	Customers
3	-1.52	-0.22	0.20	Financiers
4	0.05	0.65	0.13	Suppliers
5	0.70	-0.58	-0.43	Communities
6	0.34	-0.32	-0.11	Environment
7	-0.67	-0.34	0.11	Government
8	0.14	-0.81	0.07	Non-Governmental Organizations (NGOs)
9	0.23	-0.11	-0.01	Trade Associations

Construct ('Value-Scenario') Loadings On Each Component For Mature Stage Firms

	1	2	3	
1	1.52	0.01	0.58	Capital dependency—Knowledge dependency
2	0.99	-1.51	-0.29	Revenue focus—Reputation focus
3	1.40	1.06	-0.42	Short term focus—Longer term gain

5.4 Content Analysis Of Various OLC Stages

One of the sections in Phase-1 study protocol inquired into the respondents' (scholars and practitioners) perceptions about at-least three key differentiators among the ICT sector start-up, growth, small to medium-sized, mature, and decline OLC stage firms (see Appendix A; Section 4). We performed the content analysis technique to understand these differences in a meaningful form. Our analysis excluded the 'small to medium sized' and 'decline' ICT firm stages for the purpose of reducing complexity and time duration of our second phase study design.

The main purpose of including Section 4 in the Phase-1 exploratory study protocol was to operationalize the understanding of various OLC stages in the context of ICT sector. We used a deductive content analysis technique as we based the outcome categories on previous knowledge from the OLC literature and stakeholder theory. It enabled us to develop key differentiating categories among ICT sector start-up, growth, and mature firm stages for the purpose of testing the proposed theory and related hypotheses. On the contrary, an inductive content analysis helps research questions that allow concepts to be derived from the data (Elo & Kyngäs, 2007).

As the first step, we organized the complete textual data from Section 4 – Questions 17a, 17b, 17c, 17d, and 17e (Appendix A) into a document. The audio recordings of the interview sessions were also transcribed and rechecked to ensure the accuracy of the collected responses. As the second step, the unit of analysis was set to be the three discriminating characteristics of the ICT sector start-up, growth and mature OLC stage firms, as provided by each respondent.

On the basis of the OLC theory, we developed a categorization matrix and color-coded the data according to the categories (see Appendix C). This structured matrix was then reviewed to condense the total 54 (18 respondents; each providing three characteristics) elicited constructs in each of the OLC stages to main categories. For the purpose of our research study, it was essential to describe the exemplifications of the identified categories (see Appendix D).

5.4.1 Definitions Of ICT Sector Start-Up, Growth, And Mature OLC Stage Firms

The main intention behind conducting this step was to systematically come up with a simpler, understandable and discriminating description of the start-up, growth and mature OLC stage firms from the ICT sector. Henceforth, we deduced some of the major differences among these OLC stages as below:

5.4.1.1 ICT Sector Start-Up Stage Firms

It is perceived that organizations at the start-up stage:

- Raises limited funds or investments to run business operations with less than a million USD in capital
- Employs a small team of up to 20 people, which in certain instances reaches a maximum size of 100 employees
- Intend to flourish growth
- Adopts an informal organizational structure with multifaceted team roles
- Offers minimum viable products or services
- Generates low sales, few paying customers, and possesses limited technical skills
- Operates in newer markets and lacks defined processes

5.4.1.2 ICT Sector Growth Stage Firms

It is perceived that organizations at the growth stage:

- Raises enough funds to become independent to run business operations with 5 to 15 million USD in capital
- Employs a medium sized team of up to 100 people, which in certain instances reaches a maximum size of 2000 employees
- Intends to flourish growth at a rate of over 10% to 300% annually
- Adopts a formalized organizational structure with specific team roles
- Offers diversified lines of commercial products or services
- Generates adequate sales, and possesses increased paying customers
- Operates in high potential markets and promotes formalized processes

5.4.1.3 ICT Sector Mature Stage Firms

It is perceived that organizations at the mature stage:

- Produces stable but higher revenue flows to become self-sustaining in business operations
- Employs a large sized team of over 100 people, which in certain instances reaches a size of 10,000 employees
- Intends to flourish growth at a typical steady rate of 1% to 3% (or less than 10%) annually
- Adopts a bureaucratic organizational structure with outlined departmental roles
- Offers well established lines of products or services
- Generates high sales, and possesses large customer base
- Operates in publicly held markets and promotes highly formal, goal-driven processes

5.5 Discussion For Phase-1

Our initial exploratory study attempted to reflect the complexity of perceptions among ICT-sector organizations belonging to the start-up, growth and mature stage of development in creating 'value' for a diverse group of primary and secondary stakeholders. The central purpose of conducting this study may be related to grounding the meaning of 'value-creation' by ICT-sector firms for various organizational stakeholders. By using a systematic exploratory interview technique, named, repertory grid – we were able to systematically elicit constructs that could allow us to define the three tenets of stakeholder theory for a better informed successive empirical study. In literature, not many studies are focused on defining the concept of 'value-creation' in the ICT-sector firms. We imply that this study should be of interest as well in detailed learning about concepts in technology-based organizations and contribution to 'method' for understanding nascent concepts in general through a systematic technique.

The results varied from one development stage to another – for instance, at the start-up stage, constructs other than the narrowly economic perspective emerged dominantly. The primary stakeholders, such as, 'Customers', 'Suppliers', 'Employees', and 'Financiers', were perceived to have received 'value' from the firms because of their high influence, practical, and direct benefits-extending abilities. The secondary stakeholder group, including, 'Communities', 'Government', 'Trade Associations', 'Environment' and 'Non-Governmental Organizations' (NGOs) formed a cluster together based on how firms perceived them in terms of their low influential, academic, and indirect benefits-offering constructs. Perhaps, these trends suggest that start-up firms were not only driven by the purpose of making profits, and are not yet heavily invested in the 'status quo'; hence, they express themselves further in broadly defined interest categories.

In case of growth stage firms, primary stakeholders, namely, 'Financiers', 'Customers', and 'Suppliers', were perceived to have derived 'value' from the firms because of their direct relationship, high turnover, people focus, legitimacy and profits as key attributes. However, 'Employees' were considered to have strongly differed from the other primary stakeholders on the account of preference for purpose over profits. On contrary, the secondary stakeholders, such as, 'Environment', and 'Non-Governmental Organizations' (NGOs) were perceived to have formed a tight cluster together displaying less legitimacy, lack of people focus, low turnover, indirect relationship, purpose focus and long-term implications as growth firms create 'value' for them. Other secondary stakeholders, 'Communities', and 'Government' show similar trends but significantly differed from 'Environment' and 'Non-Governmental Organizations' (NGOs) in terms of being the sources of legitimacy, and demonstrating people focus. Lastly, 'Trade Associations' remained neutral about the profit versus purpose focus, higher versus lower turnover, and shorter versus longer-term constructs. In summary, growth stage ICT-sector firms were perceived to have presented both, economically and non-economically driven paradigms for creating 'value' for a distinct set of stakeholders. From a set of

primary stakeholders, 'Financiers', 'Customers', and 'Suppliers' were perceived to have emerged on the economic dimension. Further, other than the 'Government', none of the remaining secondary stakeholders were considered to have an economic view about 'value-creation'.

The primary stakeholders belonging to the mature stage ICT-sector firms, such as, 'Financiers', 'Customers', were perceived to have received 'value' for their capital-dependent, and revenue-focused competences. Similarly, stakeholders like 'Suppliers' were perceived to have inclination toward revenue focus and longer-term gains. The 'Employees' contrasted with other primary stakeholders by their perceptual exhibition of knowledge-dependent abilities. However, in case of mature stage secondary stakeholders, 'Trade Associations', 'Environment', 'Communities' and 'Non-Governmental Organizations' (NGOs) form a cluster of 'value-creation' based on how mature firms perceived their importance for reputation. The remaining secondary stakeholder, 'Government' showed resemblance with a primary stakeholder (i.e. 'Financiers') in terms of the capital dependency and shorter-term focus on gains. In conclusion, ICT-firms at the mature stage of development were perceived to have exhibited non-economic view of 'value-creation' for all secondary stakeholders, except the 'Government', and established economic views for its primary stakeholders, such as, 'Financiers' and 'Customers' of the group.

We refrained from using the details of all five OLC (start-up, growth, small to medium-sized, mature, and decline) stages as described in Appendix C in this chapter – for it was beyond the scope of this research project. Our focus was on finding common and key differentiating factors of start-up, growth, and mature OLC stages only in the light of prior research (by Miller & Friesen, 1984; Kallunki & Silvola, 2008) to systematically guide us in advancing our research into the Phase-2. We removed the small to medium-sized and decline OLC stages for further analysis due to practical reasons and addressing the problem of survey longevity in Phase-2. The aforementioned definitions of start-up, growth and mature OLC stages are then used as 'conditions' in Phase-2 research design to

capture the difference among various dependent variables, gathered from the literature and RepGrid interview activity described earlier in this chapter (see Section 5.3). The details about the procedure used for Phase-2 study are discussed in Chapter 4 (see Section 4.4) with results mentioned in Chapter 6.

The outcomes from Phase-1 were seen as reflecting 'vested-interest' judgments from ICT business experts. This signifies narrow, bounded, exclusive, and 'As It Is' approach to stakeholder 'value-creation'. We could benefit through extending in the direction of 'normative-interest' judgments, which may imply broad, unbounded, inclusive, multi-stakeholder, and 'As It Ought To Be' focus with the 'vested-interest' approach to gain a better understanding about various business-stakeholder engagement models. However, for Phase-2 of our research, we decided to further explore the domain of 'vested-interest' of ICT-sector practitioners to empirically examine the OLC and the main tenets of stakeholder theory.

We take the above discussion to mean that ICT-sector organizations at different OLC stages use a variety of constructs to define how they create 'value' for various organizational stakeholders. For instance, some ICT-sector experts may think that they create 'value' by focusing on revenues, while others focus more on firms' reputation. Similarly, some may hold competitive focus as a way to create 'value', whereby, others may exercise cooperative focus. There may not be just one way to create 'value' and we do not claim that any one 'value-scenario' construct is superior to the other. The purpose of our research is to empirically draw a picture of how the ICT-sector firms respond to these 'value' scenarios.

Table 17 summarizes the most representative value-creating constructs, along with meanings that were elicited during Phase-1 of our research. A total of nine uni-polar constructs described the three tenets of stakeholder theory, including: focus on environmental concerns, focus on societal benefits,

focus on employees / human resources, longer-term focus, focus on firm reputation, multi-stakeholder focus, focus on firm revenues, focus on firm profits and cooperative focus. RepGrid interview sessions conducted in Phase-1 enabled us to generate 18 uni-polar value-creating constructs. For an informative Phase-2 study, we added six more constructs to the set from literature. It was believed to affectively capture the 'value' created by ICT-sector firms for various organizational stakeholders.

In Phase-2, out of these 24 constructs, only 19 were selected for the final survey study (see the survey instrument in Appendix E). The decision was taken after conducting pre-testing sessions of the survey instrument on a total of 12 respondents; comprising of six senior PhD students at the Department of Management Science at the University of Waterloo, and six industry representatives from the ICT-sector in the Waterloo, Ontario region. The feedback also enabled us to alter wordings in the instrument to effectively represent the desired questions.

Table 17: Summary Of 'Value-creation' Constructs For An Informative Phase-2 Study

Uni-Polar Constructs	Variables Describing Constructs	Source	Representative Tenets of Stakeholder Theory
Academic	Focus on Theoretical Implications	RepGrid Interview	
Practical	Focus on Practical Implications	RepGrid Interview	
Low Influence	Focus on Theoretical Implications	RepGrid Interview	
High Influence	Focus on Practical Implications	RepGrid Interview	
Direct Benefit Of Growth	Focus on Firm Growth	RepGrid Interview	
Indirect Benefit of Growth	Focus on Environmental Concerns / Focus on Societal Benefits	RepGrid Interview	Jointness of Interest
Benefit Provider	Focus on Stakeholder Providing Us Value	RepGrid Interview	
Benefit Receiver	Focus on Stakeholder Receiving Value From Us	RepGrid Interview	
Effect on Low Turnover	Focus on Employees / Focus on Human Resources	RepGrid Interview	Jointness of Interest
Effect on High Turnover	Focus on Employees / Focus on Human Resources	RepGrid Interview	
People Oriented	Focus on Employees / Focus on Human Resources	RepGrid Interview	Jointness of Interest
Not People Oriented	Focus on Employees / Focus on Human Resources	RepGrid Interview	
Longer Term	Longer Term Focus	RepGrid Interview	Jointness of Interest
Shorter Term	Shorter Term Focus	RepGrid Interview	
Capital Dependency	Focus on Capital For Firm	RepGrid Interview	
Knowledge Dependency	Developing of New Skills / Applying of Existing Skills	RepGrid Interview	
Revenue Focus	Focus on Firm Revenues	RepGrid Interview	Narrowly Economic View Of The Firm
Reputation Focus	Focus on Firm Reputation	RepGrid Interview	Jointness of Interest
Cooperative Focus	Cooperative Focus	Literature	Cooperative Strategic Posture
Competitive Focus	Competitive Focus	Literature	
Multi-Stakeholder Focus	Multi-Stakeholder Focus	Literature	Jointness of Interest
Uni-Stakeholder Focus	Uni-Stakeholder Focus	Literature	
Profit Focus	Focus on Firm Profits	Literature	Narrowly Economic View Of The Firm
Purpose Focus	Focus on Firm Purpose	Literature	

Chapter 6

Findings Of Phase-2: Survey Study Design

In our second phase of research exploration, we utilized value-creating constructs gathered from Phase-1, along with constructs from literature in a repeated measures survey study design. The purpose was to investigate empirically the perceived receptiveness of ICT-sector firms toward various business-stakeholder engagement models. In this chapter we present results gathered from the study conducted in Phase-2. These are distributed over six sections. First section provides descriptive characteristics of Phase-2 study participants (Section 6.1). Second section empirically addresses the issue of internal consistency of the measurement constructs (Section 6.2). Third section statistically assesses the measurement bias related with common method (Section 6.3). Fourth section presents the relationship between start-up, growth, and mature OLC stage conditions with a set of representative variables of the three tenets of stakeholder theory (Section 6.4). The representative dependent variables are theoretically classified as close approximates of the three main tenets of stakeholder theory that differentiates between various business-stakeholder engagement models. Fifth section focuses on the relationship between the ICT-sector participants' total working experience with the importance given to various stakeholders (Section 6.5). Sixth section summarizes the discussion of the overall Phase-2 results (Section 6.6).

6.1 Participants

Our study included a heterogeneous sample of 132 ICT-sector business practitioners, who specialized in mobile, software, hardware, Internet, media and social interaction technologies. Further inclusion criteria of participants in Phase-2 comprise of adults from the United States of America, operating in the North American or international markets. Table 18, provides descriptive demographic details of our sample group in Phase-2.

Table 18: Descriptive Characteristics Of Participants In Phase-2 Study

	Start-Up OLC Stage Expertise	Growth OLC Stage Expertise	Mature OLC Stage Expertise
Recent ICT Role Experience	Mean 6.87; SD 4.75;	Mean 7.18; SD 5.04;	Mean 7.53; SD 4.32;
(Years)	Range 1 – 25	Range 2 – 34	Range 2 – 15
Total ICT Sector Experience	Mean 7.87; SD 6.04;	Mean 9.46; SD 6.56;	Mean 10.60; SD 6.70;
(Years)	<i>Range</i> 1 − 35	<i>Range</i> 1 − 40	<i>Range</i> 1 − 25

	Sample	No. Of	Sample	No. Of	Sample	No. Of
	Size	Responses	Size	Responses	Size	Responses
Practitioners	39 (29.6%)		65 (49.2%)		28 (21.2%)	
Total	132 (100%)		132 (100%)		132 (100%)	
Recent ICT Role						
Entrepreneur	1 (2.6%)		-		-	
Product Developer	4 (10 20/)		4 (6.2%)		1 (3.6%)	
Software Developer Project Manager	4 (10.3%) 4 (10.3%)		9 (13.8%) 8 (12.3%)		4 (14.3%) 4 (14.3%)	
Researcher	3 (7.7%)		8 (12.370)		1 (3.6%)	
Business Manager	5 (12.8%)		5 (7.7%)		1 (3.6%)	
Marketing Coordinator	1 (2.6%)		1 (1.5%)		-	
Consultant	2 (5.1%)		1 (1.5%)		1 (3.6%)	
Technical / Policy Adviser	5 (12.8%)		4 (6.2%)		3 (10.7%)	
Analyst	2 (5.1%)		4 (6.2%)		- ′	
Director	8 (20.5%)		16 (24.6%)		11 (39.3%)	
Chief Executive Officer	4 (10.3%)		13 (20%)		2 (7.1%)	
ICT Sector Focus				/ / //		
Mobile		24 (61.5%)		37 (56.9%)		17 (60.7%)
Software		25 (64.1%)		48 (73.8%)		21 (75.0%)
Hardware Internet		16 (41.0%) 28 (71.8%)		34 (52.3%) 42 (64.6%)		18 (64.3%) 16 (57.1%)
Social Interaction		17 (43.6%)		30 (46.2%)		13 (46.4%)
Media		14 (35.9%)		11 (16.9%)		9 (32.1%)
Gender		14 (33.770)		11 (10.570)) (32.170)
Female	17 (43.6%)		16 (24.6%)		17 (60.7%)	
Male	21 (53.8%)		49 (75.4%)		11 (39.3%)	
Prefer No Answer	1 (2.6%)		- ′		- ′	
Highest Completed Education						
Level						
Less Than High School	1 (2.6%)				-	
High School	3 (7.7%)		1 (1.5%)		-	
College Diploma	7 (17.9%)		12 (18.5%)		7 (25.0%)	
Undergraduate Degree Master's Degree	7 (17.9%) 15 (38.4%)		9 (13.8%) 36 (55.4%)		9 (32.1%) 9 (32.1%)	
Doctoral Degree	4 (10.3%)		7 (10.8%)		3 (10.7%)	
Other	2 (5.1%)		(10.670)		3 (10.770)	
Education & Training	2 (3.170)					
Engineering		17 (43.6%)		28 (43.1%)		9 (32.1%)
Life Sciences		11 (28.2%)		14 (21.5%)		2 (7.1%)
Computer Sciences		26 (66.7%)		38 (58.5%)		20 (71.4%)
Physical Sciences		11 (28.2%)		10 (15.4%)		1 (3.6%)
Arts/Humanities		7 (17.9%)		8 (12.3%)		1 (3.6%)
Social Sciences		12 (30.8%)		8 (12.3%)		2 (7.1%)
Mathematics		14 (35.9%)		20 (30.8%)		2 (7.1%)
Business Other		13 (33.3%)		27 (41.5%)		8 (28.6%)
Age		2 (5.1%)		1 (1.5%)		-
Under 20 years	1 (2.6%)		_		_	
Between 20 and 25 years	5 (12.8%)		7 (10.8%)		6 (21.4%)	
Between 26 and 35 years	21 (53.8%)		29 (44.6%)		10 (35.7%)	
Between 36 and 45 years	9 (23.1%)		20 (30.8%)		9 (32.1%)	
Between 46 and 55 years	1 (2.6%)		5 (7.7%)		3 (10.7)	
Between 56 and 65 years	1 (2.6%)		3 (4.6%)		-	
Over 66 years	1 (2.6%)		1 (1.5%)		-	

A sample size of 132 respondents was analyzed to infer empirical results. In the survey questionnaire, respondents were asked to express their expertise regarding different OLC stages in the ICT-sector. A total of 39 respondents chose expertise in the start-up stage; 65 selected growth stage; and 28 picked mature OLC stage.

In theory, we generalized that highly experienced ICT-sector participants with specific OLC stage expertise (start-up n = 39; growth n = 65; mature n = 28) could also provide knowledgeable inputs for other OLC stages. To test this assumption, we decided to statistically examine any significant differences among respondents with specific OLC expertise in three OLC conditions (levels of independent variable). We conducted one-way repeated measures ANOVA with OLC conditions as within-subjects factor at three levels (start-up, growth, and mature) along with value-creating constructs as dependent measures. After defining these measures, self-reported OLC stage expertise were added as a between-subjects measure and tested for mean differences. The results shown in Table 19 verify that there are no statistically significant differences among participants with respect to various 'value-creation' constructs. A clearly non-significant alpha level (p > 0.25) is satisfied for a total of 16 out of 19 cases with no p-value < 0.115. We acknowledge that three dependent variables, 'Focus on Developing New Skills' (p = 0.122), 'Longer Term Focus' (p = 0.150), and 'Cooperative Focus' (p = 0.115) did not achieve the clearly non-significant alpha level in terms of OLC stage (Table 19).

As the sample size for each group of OLC expertise is unequal, we also tested it by randomly selecting an equal sample size of 28 respondents from the start-up and growth stage expertise groups¹⁹. The results again showed no difference among the self-reported OLC stage expertise. A clearly non-significant alpha level (p > 0.25) is satisfied for a total of 17 out of 19 cases with no p-

¹⁹ The sample size of mature stage expert group was 28, consequently, the other two groups, start-up and growth experts were randomly reduced to a sample size of 28 respondents respectively.

value < 0.055. We acknowledge that two dependent variables, 'Cooperative Focus' (p = 0.055), and 'Longer Term Focus' (p = 0.233) did not achieve the clearly non-significant alpha level in terms of OLC stages (see Appendix H for results). Therefore, it is safe to use a total sample of 132 respondents to test for mean differences among various 'value' creating constructs in start-up, growth, and mature OLC stage conditions.

Table 19: Test Of Between Subjects Self-Reported OLC Expertise In Phase-2

Tests of Between-Subjects Effects

Transformed Variable: Average

Source	Measure	Type III Sum of Squares	df	Mean Square	F	Sig.
Self-Reported	Focus on Firm Growth	4.108	2	2.054	1.495	.228
OLC Expertise	Focus on Employees / HR	.534	2	.267	.141	.868
	Focus on Firm Profits	.402	2	.201	.136	.873
	Focus on Firm Purpose	2.919	2	1.460	.994	.373
	Focus on Societal Benefits	1.976	2	.988	.418	.659
	Focus on Capital for Firm	2.055	2	1.028	.691	.503
	Focus on Environmental Concerns	4.381	2	2.191	.671	.513
	Focus on Developing New Skills	6.795	2	3.397	2.139	.122
	Focus on Applying Existing Skills	3.858	2	1.929	1.295	.278
	Focus on Firm Revenues	3.901	2	1.950	1.054	.352
	Focus on Firm Reputation	1.860	2	.930	.544	.582
	Shorter Term Focus	.693	2	.347	.146	.864
	Longer Term Focus	5.889	2	2.945	1.928	.150
	Focus on Theoretical Implications	2.393	2	1.196	.495	.611
	Focus on Practical Implications	.942	2	.471	.262	.770
	Multi-Stakeholder Focus	.178	2	.089	.045	.956
	Uni-Stakeholder Focus	1.372	2	.686	.242	.785
	Competitive Focus	3.398	2	1.699	.900	.409
	Cooperative Focus	9.441	2	4.721	2.199	.115

6.2 Internal Consistency Of The Measurement Constructs

For the purpose of hypotheses testing and obtaining more reliable results, we used multiple items scale to measure 'jointness of interest' for start-up, growth, and mature OLC stage conditions.

Although, it is recommended to have a multiple item scale for correctly defining a construct (DeVellis, 2003), still we believed that single-item representation of 'cooperative focus' fully

captured the domain of 'cooperative strategic posture' construct. Similarly, based on the definition of 'narrowly economic view of the firm' construct, only two items²⁰, 'focus on firm revenues', and 'focus on firm profits' were used in calculating a composite score.

Table 20: Details Of Multiple Items Scale To Measure Jointness Of Interest

Constructs	Scale Items	Cronbach's Alpha ²¹
	Start-up – Focus on Societal Benefits	
	2. Start-up – Focus on Environmental Concerns	
Start-up Stage – Jointness Of Interest	3. Start-up – Longer Term Focus	0.826
Start-up Stage – Jointness Of Interest	4. Start-up – Multi-Stakeholder Focus	0.820
	5. Start-up – Focus on Employees / HR	
	6. Start-up – Focus on Firm Reputation	
	1. Growth – Focus on Societal Benefits	
	2. Growth – Focus on Environmental Concerns	
Growth Stage – Jointness Of Interest	3. Growth – Longer Term Focus	0.767
Growth Stage – Johnthess Of Interest	4. Growth – Multi-Stakeholder Focus	0.707
	5. Growth – Focus on Employees / HR	
	6. Growth – Focus on Firm Reputation	
	1. Mature – Focus on Societal Benefits	
	2. Mature – Focus on Environmental Concerns	
Mature Stage – Jointness Of Interest	3. Mature – Longer Term Focus	0.724
Mature Stage – Johnness Of Interest	4. Mature – Multi-Stakeholder Focus	0.724
	5. Mature – Focus on Employees / HR	
	6. Mature – Focus on Firm Reputation	

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²⁰ According to Herbert et al. (1998), Little et al. (1999), Emons et al. (2007), and Eisinga et al. (2013), having only two items to define a 'construct' has been recognized as problematic in terms of providing a meaningful internal validity measure. Based on the theoretical meaning of the construct, 'narrowly economic view of the firms', we believed that 'focus on firm profits' and 'focus on firm revenues' as composite measure could effectively provide a meaningful close approximation of the exploratory construct.

²¹ Cronbach's alpha coefficient cut-off value above 0.6 is considered acceptable for exploratory

²¹ Cronbach's alpha coefficient cut-off value above 0.6 is considered acceptable for exploratory research; however, the debate about the 'true' cut-off level is still unresolved in literature (Nunnally, 1978; Ponterotto & Ruckdeschel, 2007; Garson, 2009).

To test the internal consistency and reliability of the measurement scale, we performed scale reliability analysis using the 22nd version of SPSS for constructs in each condition. Table 20 presents the Cronbach's alpha²² levels (as coefficient of reliability) of 'jointness of interest' construct in the start-up, growth and mature OLC conditions²³. We can see that Cronbach's alpha is above 0.7 in all three conditions, which indicates a high level of internal construct consistency at all three levels of interventions (Nunnally & Bernstein, 1994; Gliem & Gliem, 2003).

6.3 Assessment Of Common Method Biases

In Chapter 4, we discussed a few practices to deal with common method biases that are often associated with the social sciences. According to Campbell and Fiske (1959), and Podsakoff et al. (2003), method biases create systematic errors in the measurement and weaken the validity of research results. There is a long list of potential causes of common method biases in research studies like ours – a few of them being more relevant to us than others²⁴. One major source of potential common method bias in the context of our Phase-2 study was the fact that the measurement of dependent and independent variables was conducted using the same medium of a self-reported online questionnaire (Podsakoff et al., 2003).

We conducted Harman's single-factor test to address the limitation of variance caused by common method. This test is commonly used in similar research projects to identify any serious limitations of research findings (Podsakoff et al., 2003, Noriega, 2013; Batouk, 2015). For this technique a list of variables used in the study are loaded into an exploratory factor analysis without rotating the solution (Aulakh & Geneturk, 2000; Podsakoff et al., 2003).

²² Cronbach's coefficient alpha is a widely used measure of multi-item scale reliability (DeVellis, 2003).

²³ For more details about multi-item scale reliability analysis, see Appendix I.

²⁴ See the summary of potential sources of common method biases by Padsakoff et al. (2003) for more details.

A total of 31 measurement variables from our study were loaded into the exploratory factor analysis (with principal component methods in extraction settings). We limited the extraction of number of factors to one with no rotations to the solution. As a result, we gathered eight factors with Eigenvalues greater than one. The first factor accounted for 31.01% of the total variance. It indicates that no single-factor fully explains the total variance – thus validating that our Phase-2 study design results are not seriously limited by common method bias²⁵.

6.4 Relationship Between OLC Stages And Business-Stakeholder Engagement Models

We used a one-way repeated measures analysis of variance (ANOVA) to empirically understand the relationships between the three OLC conditions (i.e. start-up, growth, and mature stages) and the three tenets of stakeholder theory. We acknowledge that methodically, the proposed hypotheses could also be tested using other analytic approaches, such as, structural equation modeling. Nonetheless, with this study's outlined design to examine the difference between OLC stage conditions, which have been repeatedly measured on the representative dependent variables of three tenets of stakeholder theory – a repeated measures ANOVA analytic method was preferred for hypotheses testing. In our data set, dependent variable, 'Cooperative Focus', provides a close representation of *Cooperative Strategic Posture* tenet of stakeholder theory. Similarly, dependent variables, 'Focus on Firm Profits', and 'Focus on Revenues' represent *Narrowly Economic View of Firms*. Variables, 'Focus on Societal Benefits', 'Focus on Environmental Concerns', 'Focus on Employees / Human Resources', 'Focus on Firm Reputation', 'Longer Term Focus', and 'Multi-Stakeholder Focus' characterizes the *Jointness of Interest*, as three differentiating factors between the CSR, CSV, and VAS models, respectively.

²⁵ For more analytical details on the factor analysis, see Appendix J.

To run a one-way repeated measures ANOVA, the following five assumptions needs to be satisfied²⁶: 1) the dependent variables used in the study should be continuous – all 19 dependents variables ('value-scenarios') in our study were considered as continuous variables²⁷; 2) there should be one within-subjects factor with three or more categorical levels – our start-up, growth, and mature OLC stage categorical conditions were classified as three levels of the within-subjects factor; 3) no significant outliers remain in any level of the within-subjects independent variable – a careful and detailed analysis was conducted to account for this assumption; 4) the data should be normally distributed – although one-way repeated measures ANOVA is considered to be robust against this assumption's violation, and finally; 5) the data should have homogeneity of variance and covariance, known as the assumption of sphericity – Mauchly's test of sphericity was conducted to apply corrections when this assumption was violated (Howell, 2012).

We used graphical method by creating boxplots of our data to check for significant outliers. This analysis returned a few 'value-scenario' dependent variables displaying extreme outliers (represented by asterisk '*' sign beside them) at different OLC conditions (see Appendix F for details). A total of 9 dependent variables out of 19, describing 'value-scenarios' were identified with an issue of extreme outliers.

The data file was rechecked for potential measurement, sampling, and clerical errors. After ruling out these possibilities, we believed that the outlier data provide genuine perceptual parameters of an observation. Therefore, we decided to keep the outliers – instead of removing them, changing their weightage, or transforming the dependent variables (Hawkins, 1980; Ghosh & Vogt, 2012). We performed one-way repeated measures ANOVA on these nine dependent variables with and without

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²⁶ For more details on one-way repeated measures ANOVA assumptions and understanding different type of variables, see Laerd Statistics at https://statistics.laerd.com

Using parametric statistics on Likert scale studies are considered robust against the violations of normality, unequal variances, small sample or ordinal type Likert scales (Norman, 2010).

outliers. After comparing their results, we found no significant difference between the two groups²⁸ – which validates our decision to include the outliers in the data analyses.

We reviewed our data for normality using histograms and Q-Q plots (graphical), along-with Shapiro-Wilk and Kolmogorov-Smirnov test of normality (numerical) methods for each level of within-subjects factor. The graphical method shows our data being negatively skewed. All the 19 value-creating constructs (dependent variables) were not normally distributed at each OLC level, as assessed by Shapiro-Wilk's and Kolmogorov-Smirnov's test (p < 0.001)²⁹. One-way repeated measures ANOVA is considered to be robust against the violation of normality; therefore, we will continue with the analysis without suspecting results of being substantially affected by Type 1 error rate (Norman, 2010; Howell, 2012; Laerd Statistics, 2015).

We set our data according to the recommended repeated measures ANOVA conventions in SPSS software packages (Howell, 2012; Laerd Statistics, 2015). Repeated measures procedure was selected in the general linear model menu options. The three levels of 'OLC_Stages' were defined as within-subjects factor name (independent variable) and 19 value-creating constructs as measure names (dependent variables) in SPSS to produce results (see Appendix K³⁰).

6.4.1 OLC Stages And Their Relationship With Firms' Cooperative Strategic Posture

This section provides results for the hypotheses, **H1a**, **H2a**, and **H3a** – that focuses on the likelihood of start-up and mature OLC stage firms demonstrating more cooperative strategic posture than the growth OLC stage firms with respect to various business-stakeholder engagement models. A one-way repeated measures ANOVA was conducted to determine whether there were statistically

²⁸ See Appendix F for more details about outlier analysis using one-way repeated measures ANOVA.

²⁹ See Appendix G for more details about determining the normal distribution of the data.

The results mentioned in Appendix K provide separate results for 19 value-creating scenarios at three OLC levels. The post-hoc analysis shows no adjustment (LSD) for multiple comparisons.

significant differences in perceptions about ICT-sector firms at different OLC stages, creating 'value' through keeping a cooperative strategic posture (see Table 21 for statistical results).

Table 21: Statistical Results Of Relationship Between OLC Stages And 'Cooperative Focus'

Descriptive Statistics

Descriptive Statistics							
	Mean	Std. Deviation	N				
[Start-up] Cooperative Focus	5.7955	1.08943	132				
[Growth] Cooperative Focus	5.5379	1.06581	132				
[Mature] Cooperative Focus	5.8182	1.06877	132				

Mauchly's Test of Sphericity^a

Measure: Cooperative Focus

•]	Epsilon ^b	
Within Subjects		Approx. Chi-				Huynh-	Lower-
Effect	Mauchly's W	Square	df	Sig.	Greenhouse-Geisser	Feldt	bound
OLC Stages	.973	3.550	2	.170	.974	.988	.500

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: OLC_Stages

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Cooperative Focus

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC	Sphericity Assumed	6.399	2	3.199	5.002	.007	.037	.811
Stages	Greenhouse-Geisser	6.399	1.948	3.286	5.002	.008	.037	.803
	Huynh-Feldt	6.399	1.977	3.237	5.002	.008	.037	.807
	Lower-bound	6.399	1.000	6.399	5.002	.027	.037	.603
Error	Sphericity Assumed	167.601	262	.640				
(OLC	Greenhouse-Geisser	167.601	255.128	.657				
Stages)	Huynh-Feldt	167.601	258.925	.647				
	Lower-bound	167.601	131.000	1.279				

Pairwise Comparisons

Measure: Cooperative Focus

					95% Confidence Interval for Difference ^b	
(I) OLC Stages	(J) OLC Stages	Mean Difference (I-J)	Std. Error	Sig.b	Lower Bound	Upper Bound
Start-up [1]	Growth [2]	.258*	.094	.020	.031	.484
	Mature [3]	023	.106	1.000	280	.235
2	1	258*	.094	.020	484	031
	3	280 [*]	.095	.011	511	049
3	1	.023	.106	1.000	235	.280
	2	.280*	.095	.011	.049	.511

Based on estimated marginal means

There were no significant outliers and the data were not normally distributed, as assessed by boxplot and Shapiro-Wilk's test (p < .0005), respectively. The assumption of sphericity was not violated, as assessed by Mauchly's test of sphericity, $\chi^2(2) = 3.550$, p = .170. The OLC stages elicited statistically significant changes in perceiving cooperative focus of ICT-sector firms, F(2, 262) = 5.002, p = .007, partial $\eta^2 = 0.037$, with cooperative focus increasing from growth OLC stage (M = 5.54, SD = 1.07) to start-up OLC stage (M = 5.80, SD = 1.09) to mature OLC stage (M = 5.82, SD = 1.07). Post hoc analysis with Bonferroni adjustment revealed that perceived cooperative focus of firms statistically significantly decreased from start-up stage to growth OLC condition (M = 0.258, 95% CI [0.03, 0.48], p = 0.020), and from mature stage to growth OLC condition (M = 0.280, 95% CI [0.05, 0.51], p = 0.011), but not from mature condition to start-up OLC stage (M = 0.022, 95% CI [-0.24, 0.28], p = 1.000).

Consequently, the empirical evidence supports hypothesis **H1a**, stating – that with respect to VAS, start-up firms are perceived to be more likely to demonstrate cooperative strategic posture than are the growth firms. The results also support hypothesis **H2a**, stating – that with respect to CSR, growth firms are perceived to be less likely to demonstrate cooperative strategic posture than are the start-up and mature firms. Lastly, evidence supports hypothesis **H3a**, stating – that with respect to CSV,

^{*.} The mean difference is significant at the 0.05 level

b. Adjustment for multiple comparisons: Bonferroni.

mature firms are perceived to be more likely to demonstrate cooperative strategic posture than are the growth firms.

6.4.2 OLC Stages And Their Relationship With Narrowly Economic View Of Firms

This section provides results for the hypotheses, **H1b**, **H2b**, and **H3b** – that focuses on the likeliness of start-up OLC stage firms demonstrating rejection of a narrowly economic view through focusing on firm profits and revenues than the growth and mature OLC stage firms with respect to various business-stakeholder engagement models. A one-way repeated measures ANOVA was conducted to determine whether there were statistically significant differences in perceptions about ICT-sector firms at different OLC stages, creating 'value' through rejecting a narrowly economic view (see Table 22 for statistical results).

Table 22: Statistical Results Of Relationship Between OLC Stages And Narrowly Economic View Of Firms

Descriptive Statistics

	Mean	Std. Deviation	N
[Start-up] Narrowly Economic View	5.7348	.95797	
[Growth] Narrowly Economic View	6.0038	.66107	
[Mature] Narrowly Economic View	5.9470	.95361	132

Mauchly's Test of Sphericity^a

Measure: Narrowly Economic View Of Firms

					Epsilon ^b		
Within Subjects		Approx. Chi-					Lower-
Effect	Mauchly's W	Square	df	Sig.	Greenhouse-Geisser	Huynh-Feldt	bound
OLC Stages	.956	5.846	2	.054	.958	.972	.500

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

Within Subjects Design: OLC Stages

a. Design: Intercept

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Narrowly Economic View Of Firms

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC	Sphericity Assumed	5.304	2	2.652	5.813	.003	.042	.868
Stages	Greenhouse-Geisser	5.304	1.916	2.769	5.813	.004	.042	.857
	Huynh-Feldt	5.304	1.944	2.729	5.813	.004	.042	.861
	Lower-bound	5.304	1.000	5.304	5.813	.017	.042	.668
Error	Sphericity Assumed	119.529	262	.456				
(OLC	Greenhouse-Geisser	119.529	250.963	.476				
Stages)	Huynh-Feldt	119.529	254.603	.469				
	Lower-bound	119.529	131.000	.912				

Pairwise Comparisons

Measure: Narrowly Economic View Of Firms

			Std.		95% Confidence Interval for Difference		
(I) OLC Stages	(J) OLC Stages	Mean Difference (I-J)	Error	Sig.b	Lower Bound	Upper Bound	
Start-up [1]	Growth [2]	269 [*]	.090	.010	488	050	
	Mature [3]	212 [*]	.083	.037	415	010	
2	1	.269*	.090	.010	.050	.488	
	3	.057	.075	1.000	125	.239	
3	1	.212*	.083	.037	.010	.415	
	2	057	.075	1.000	239	.125	

Based on estimated marginal means

There were no significant outliers and the data were not normally distributed, as assessed by boxplot and Shapiro-Wilk's test (p < .0005), respectively. The assumption of sphericity was not violated, as assessed by Mauchly's test of sphericity, $\chi^2(2) = 5.846$, p = 0.054. The OLC stages elicited statistically significant changes in perceiving a narrowly economic view of ICT-sector firms, F(2, 262) = 5.813, p = 0.003, partial $\eta^2 = 0.042$, with narrowly economic focus increasing from start-up OLC stage (M = 5.73, SD = 0.96) to mature OLC stage (M = 5.95, SD = 0.95) to growth OLC stage (M = 6.00, SD = 0.66). Post hoc analysis with Bonferroni adjustment revealed that perceived narrowly economic focus of firms statistically significantly decreased from growth stage to start-up OLC condition (M = 0.27, 95% CI [0.05, 0.49], p = 0.010), and from mature stage to start-up OLC condition (M = 0.212, 95% CI [0.01, 0.42], p = 0.037), but not from growth condition to mature OLC stage (M = 0.057, 95% CI [-0.13, 0.24], p = 1.000).

^{*.} The mean difference is significant at the 0.05 level

b. Adjustment for multiple comparisons: Bonferroni.

Consequently, the empirical evidence supports hypothesis **H1b**, stating – that with respect to VAS, start-up firms are perceived to be less likely to demonstrate a narrowly economic view of the firm than are the growth and mature firms. The results also supports hypothesis **H2b**, stating – that with respect to CSR, growth firms are perceived to be more likely to demonstrate a narrowly economic view of the firm than are the start-up firms. Lastly, it supports hypothesis **H3b**, stating – that with respect to CSV, mature firms are perceived to be more likely to demonstrate a narrowly economic view of the firm than are the start-up firms.

6.4.3 OLC Stages And Their Relationship With Firms' Jointness Of Interest

This section provides results for the hypotheses, **H1c**, **H2c**, and **H3c** – that emphases on the likeliness of start-up and mature OLC stage firms demonstrating jointness of interest through extending more societal benefits, concentrating on environmental concerns, focusing on employees / human resources, focusing on firm reputation and, keeping longer term, as well as multi-stakeholder focus than the growth OLC stage firms with respect to various business-stakeholder engagement models. A one-way repeated measures ANOVA was conducted to determine whether there were statistically significant differences in perceptions about ICT-sector firms at different OLC stages, creating 'value' through jointness of interest (see Table 23 for statistical results).

Table 23: Statistical Results Of Relationship Between OLC Stages And Firms' Jointness Of Interest

Descriptive Statistics

	Mean	Std. Deviation	N
[Start-up] Jointness of Interest	5.5606		
[Growth] Jointness of Interest	5.7210		
[Mature] Jointness of Interest	5.8081	.64615	132

Mauchly's Test of Sphericity^a

Measure: Jointness Of Interest

						Epsilon ^b	
Within Subjects		Approx. Chi-					Lower-
Effect	Mauchly's W	Square	df	Sig.	Greenhouse-Geisser	Huynh-Feldt	bound
OLC Stages	.937	8.441	2	.015	.941	.954	.500

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

Tests of Within-Subjects Effects

Measure: Jointness of Interest

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC	Sphericity Assumed	4.160	2	2.080	10.049	.000	.071	.985
Stages	Greenhouse-Geisser	4.160	1.882	2.211	10.049	.000	.071	.980
	Huynh-Feldt	4.160	1.908	2.180	10.049	.000	.071	.981
	Lower-bound	4.160	1.000	4.160	10.049	.002	.071	.882
Error	Sphericity Assumed	54.229	262	.207				
(OLC Stages)	Greenhouse-Geisser	54.229	246.503	.220				
	Huynh-Feldt	54.229	249.976	.217				
	Lower-bound	54.229	131.000	.414				

Pairwise Comparisons

Measure: Jointness of Interest

	(J) OLC				95% Confidence Interval for Difference ^b		
(I) OLC Stages	Stages	Mean Difference (I-J)	Std. Error	Sig. ^b	Lower Bound	Upper Bound	
Start-up [1]	Growth [2]	160 [*]	.053	.009	290	031	
	Mature [3]	247 [*]	.063	.000	399	096	
2	1	.160*	.053	.009	.031	.290	
	3	087	.051	.279	212	.038	
3	1	.247*	.063	.000	.096	.399	
	2	.087	.051	.279	038	.212	

Based on estimated marginal means

There were no significant outliers and the data were not normally distributed, as assessed by boxplot and Shapiro-Wilk's test (p < .0005), respectively. The assumption of sphericity was violated, as assessed by Mauchly's test of sphericity, $\chi^2(2) = 8.441$, p = 0.015. Therefore, a Greenhouse-Geisser correction was applied ($\epsilon = 0.941$). The OLC stages elicited statistically significant changes in

a. Design: Intercept

Within Subjects Design: OLC Stages

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

^{*}. The mean difference is significant at the 0.05 level

b. Adjustment for multiple comparisons: Bonferroni.

perceiving jointness of interest of ICT-sector firms, F(1.882, 246.503) = 10.05, p < 0.001, partial $\eta^2 = 0.071$, with firms' focus on jointness of interest increasing from start-up OLC stage (M = 5.56, SD = 0.91) to growth OLC stage (M = 5.72, SD = 0.74) to mature OLC stage (M = 5.81, SD = 0.65). Post hoc analysis with Bonferroni adjustment revealed that perceived jointness of interest of firms statistically significantly decreased from growth stage to start-up OLC condition (M = 0.16, 95% CI [0.03, 0.29], p = 0.009), and from mature stage to start-up OLC condition (M = 0.247, 95% CI [0.10, 0.40], p < 0.001), but not from mature condition to growth OLC stage (M = 0.087, 95% CI [-0.04, 0.21], p = 0.279).

Consequently, the empirical evidence rejects hypothesis **H1c**, stating – that with respect to VAS, start-up firms are perceived to be more likely to demonstrate jointness of interest than are the growth firms. The results also reject hypothesis **H2c**, stating – that with respect to CSR, growth firms are perceived to be less likely to demonstrate jointness of interest than are the start-up and mature firms. Lastly, it rejects hypothesis **H3c**, stating – that with respect to CSV, mature firms are perceived to be more likely to demonstrate jointness of interest than are the growth firms.

In the particular case of 'jointness of interest', our results exhibited statistically significant differences among OLC stages but were in opposite direction to our proposed hypotheses. We consider that as a meaningful finding with a potential to guide our future research direction. It may be because the start-up stage firms are perceived to have not considered as many organizational stakeholders as legitimate, especially when compared with the growth and mature stage firms in the ICT-sector. We may take this to mean that start-up stage firms are primarily concerned about their survival and as a result they do not focus so much on the human resources, longer-term goals, environmental concerns, societal benefits, and reputation. However, this speculative rationale should be taken with caution and a critical test in follow-on research must be performed to confirm these propositions.

6.5 Relationship Between ICT-Sector Occupational Experience And Organizational Stakeholders

We used a one-way analysis of variance (ANOVA) to empirically understand the relationships between total years of working experience in the ICT-sector and the organizational stakeholder importance. In our data set, dependent variables, 'Employees', 'Customers', 'Financiers', 'Suppliers', 'Communities', 'Environment', 'Government', 'Non-Governmental Organizations' (NGOs), 'Trade Associations', represent various organizational stakeholders. Three levels of ICT-sector occupational experience (1 – 5 years, 6 – 10 years, and 11 years and above) were characterized as an independent variable.

Similar to a one-way repeated measure ANOVA method, simple one-way ANOVA needs to satisfy six basic assumptions: 1) the dependent variables used in the study should be continuous – all 9 dependents variables (organizational stakeholders) in our study were considered as continuous variables; 2) there should be one independent variable with two or more categorical levels – our categorical groups of $^{\circ}1 - 5^{\circ}$, $^{\circ}6 - 10^{\circ}$ and $^{\circ}11$ years and above of ICT-sector experience were classified as three levels of independent variable; 3) There should be no relationship between observations in different conditions – our study participants provided independent observations in three groups; 4) no significant outliers should influence the data – careful examination of outliers allowed us to remove significant outliers from the data set for improved results 31 ; 5) the data should be approximately normally distributed – although one-way ANOVA is considered to be robust against this assumption's violation if the group sample sizes are equal or nearly equal 32 – participants in our study were classified into three groups nearly equal groups: 1 - 5 years (n = 44), 6 - 10 years

³¹ A detailed analysis of outliers is given in Appendix M. We show how extreme outliers influenced the results; and therefore they were removed from the data set.

³² For more detail see the section on 'one-way ANOVA' assumptions in Laerd Statistics (2015) and their recommended reference of Lix et al, (1996).

(n = 43), and 11 years and above (n = 38); 6) the data should have homogeneity of variance – to assess this assumption, Levene's test of homogeneity of variance was conducted and Welch's ANOVA was used instead of main ANOVA results in case of any violations (Wilcox, 2012).

In order to examine significant data outliers, we used graphical method by creating boxplots. This analysis returned a total of 5 extreme outliers in the data set (see Appendix M for details). After ruling out the possibilities of potential measurement and clerical errors in the data, we tested the results with, and without extreme outliers for significant changes. The comparison of results showed significant difference in one of the dependent variable (Financiers) result³³ – therefore, we decided to remove these extreme outliers for an improved data analyses.

We reviewed our data for normality using histograms and Q-Q plots (graphical), along-with Shapiro-Wilk test of normality (numerical) methods for each level of within-subjects factor. The graphical method shows our data being negatively skewed. All the 9 organizational stakeholders (dependent variables) were not normally distributed at three levels of occupational working experience, as assessed by Shapiro-Wilk's test (p < 0.001)³⁴. Similar to a one-way repeated measures ANOVA procedure, a one-way ANOVA is also considered to be robust against the violation of normality; therefore, we decided to continue with further analyses without suspecting results of being substantially affected by Type 1 error rate (Laerd Statistics, 2015). Table 24 provides statistical details of results gathered from running a one-way ANOVA procedure.

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³³ See Appendix M for more details about outlier analysis using one-way ANOVA.

³⁴ See Appendix L for more details about numerically determining the normal distribution of the data.

Table 24: Statistical Results Of Relationship Between Occupational Experience And Stakeholders

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Employees	.417	2	123	.660
Customers	3.370	2	124	.038
Financiers	.931	2	122	.397
Suppliers	4.225	2	124	.017
Communities	1.450	2	123	.238
Environment	5.643	2	123	.005
Government	8.825	2	123	.000
Non-Governmental Organizations (NGOs)	3.601	2	122	.030
Trade Associations	1.162	2	123	.316

ANOVA

		11110 111				
		Sum of Squares	df	Mean Square	F	Sig.
Communities	Between Groups	12.133	2	6.066	4.262	.016
	Within Groups	175.081	123	1.423		
	Total	187.214	125			
Trade Associations	Between Groups	19.834	2	9.917	5.191	.007
	Within Groups	234.968	123	1.910		
	Total	254.802	125			

Robust Tests of Equality of Means

Robust Tests of Equality of Means								
		Statistic ^a	df1	df2	Sig.			
Employees	Welch	.611	2	80.315	.545			
Customers	Welch	1.696	2	81.349	.190			
Financiers	Welch	2.344	2	78.046	.103			
Suppliers	Welch	.678	2	75.338	.511			
Communities	Welch	3.429	2	78.311	.037			
Environment	Welch	5.503	2	76.125	.006			
Government	Welch	3.721	2	75.815	.029			
Non-Governmental Organizations (NGOs)	Welch	6.633	2	75.933	.002			
Trade Associations	Welch	4.476	2	79.342	.014			

a. Asymptotically F distributed.

Multiple Comparisons

			Multiple Compariso	ons			050/ 0	C* 1
							95% Cor	
		(I) T 4 LICT	(I) T + 1 ICT		Ct 1		Interval	
Dependent Var	iahla	(I) Total ICT (J) Total ICT Experience Experience		Mean Difference (I-J)	Std. Error	C:~	Lower Bound	Upper Bound
_		Experience				Sig.		.6944
Communities	Tukey HSD	1 to 5 years	6 to 10 years	.09091	.25436	.932	5126	
	пзр		11 years and above	.71651*	.26421	.021	.0897	1.3433
		6 to 10 years	1 to 5 years	09091	.25436	.932	6944	.5126
			11 years and above	.62560	.26421	.051	0012	1.2524
		11 years and above	1 to 5 years	71651*	.26421	.021	-1.3433	0897
			6 to 10 years	62560	.26421	.051	-1.2524	.0012
Environment	Games-	1 to 5 years	6 to 10 years	09091	.24566	.927	6770	.4952
	Howell		11 years and above	.98565*	.34269	.015	.1635	1.8078
		6 to 10 years	1 to 5 years	.09091	.24566	.927	4952	.6770
			11 years and above	1.07656*	.33084	.005	.2811	1.8720
		11 years and above	1 to 5 years	98565 [*]	.34269	.015	-1.8078	1635
			6 to 10 years	-1.07656*	.33084	.005	-1.8720	2811
Government Games-	Games-	1 to 5 years	6 to 10 years	.13636	.26332	.863	4919	.7646
	Howell		11 years and above	.97847*	.36008	.023	.1123	1.8446
		6 to 10 years	1 to 5 years	13636	.26332	.863	7646	.4919
			11 years and above	.84211	.37364	.070	0546	1.7388
		11 years and above	1 to 5 years	97847*	.36008	.023	-1.8446	1123
			6 to 10 years	84211	.37364	.070	-1.7388	.0546
NGOs	Games-	1 to 5 years	6 to 10 years	.33562	.26846	.428	3056	.9768
	Howell		11 years and above	1.17344*	.32095	.002	.4025	1.9444
		6 to 10 years	1 to 5 years	33562	.26846	.428	9768	.3056
			11 years and above	.83782*	.34840	.049	.0040	1.6717
		11 years and above	1 to 5 years	-1.17344*	.32095	.002	-1.9444	4025
			6 to 10 years	83782*	.34840	.049	-1.6717	0040
Trade	Tukey	1 to 5 years	6 to 10 years	.02273	.29467	.997	6764	.7218
Associations	HSD		11 years and above	.87560*	.30608	.014	.1494	1.6018
		6 to 10 years	1 to 5 years	02273	.29467	.997	7218	.6764
			11 years and above	.85287*	.30608	.017	.1267	1.5790
		11 years and above	1 to 5 years	87560*	.30608	.014	-1.6018	1494
			6 to 10 years	85287*	.30608	.017	-1.5790	1267

^{*.} The mean difference is significant at the 0.05 level.

A one-way ANOVA procedure was conducted to determine if the importance given to organizational stakeholders was different for groups with varying years of occupational experiences³⁵. There were no significant outliers and the data were not normally distributed, as assessed by boxplots and Shapiro-Wilk's test (p < .001), respectively. For stakeholders, employees, financiers, communities, and trade associations there was homogeneity of variances, as assessed by Levene's test of homogeneity of variances (p > 0.05). However, this assumption was violated for customers, suppliers, environment, government, and non-governmental organizations (p < 0.05). The differences

³⁵ See Section M.2 in Appendix M for more detailed output of the analysis.

between the occupational experience groups was not statistically significant for employees F(2, 123) = 0.528, p = 0.591; customers, Welch's F(2, 81.35) = 1.696, p = 0.190; financiers F(2, 122) = 2.788, p = 0.065; and suppliers, Welch's F(2, 75.34) = 0.678, p = 0.511.

Perceived stakeholder importance of communities was statistically significantly different between different categories of occupational experiences, F(2, 123) = 4.262, p = 0.016. Perceived importance increased for communities from the 11 years and above (M = 5.08, SD = 1.42), to 6 - 10 years (M = 5.70, SD = 1.70), to 1 - 5 years (M = 5.80, SD = 1.09) occupational experience groups. Tukey-HSD post hoc analysis revealed that the mean increase from 11 years and above to 1 - 5 years was statistically significant (p = 0.021), as well as the increase from 11 years and above to 6 - 10 years was significantly significant (p = 0.051).

Perceived stakeholder importance of environment was statistically significantly different between different categories of occupational experiences, Welch's F(2,76.16) = 5.503, p = 0.006. Perceived importance increased for environment from the 11 years and above (M = 4.61, SD = 1.78), to 1 - 5 years (M = 5.59, SD = 1.23), to 6 - 10 years (M = 5.68, SD = 1.07) occupational experience groups. Games-Howell post hoc analysis revealed that the mean increase from 11 years and above to 1 - 5 years was statistically significant (p = 0.015), as well as the increase from 11 years and above to 6 - 10 years was significantly significant (p = 0.005).

Perceived stakeholder importance of government was statistically significantly different between different categories of occupational experiences, Welch's F(2,75.82) = 3.721, p = 0.029. Perceived importance increased for government from the 11 years and above (M = 4.66, SD = 1.95), to 6 - 10 years (M = 5.50, SD = 1.32), to 1 - 5 years (M = 5.64, SD = 1.14) occupational experience groups. Games-Howell post hoc analysis revealed that the mean increase from 11 years and above to 1 - 5 years was statistically significant (p = 0.023).

Perceived stakeholder importance of non-governmental organizations (NGOs) was statistically significantly different between different categories of occupational experiences, Welch's F(2,75.93) = 6.633, p = 0.002. Perceived importance increased for NGOs from the 11 years and above (M = 4.39, SD = 1.70), to 6 - 10 years (M = 5.23, SD = 1.39), to 1 - 5 years (M = 5.57, SD = 1.09) occupational experience groups. Games-Howell post hoc analysis revealed that the mean increase from 11 years and above to 1 - 5 years was statistically significant (p = 0.002), as well as the increase from 11 years and above to 6 - 10 years was significantly significant (p = 0.049).

Perceived stakeholder importance of trade association was statistically significantly different between various categories of occupational experiences, F(2, 123) = 5.191, p = 0.007. Perceived importance increased for trade associations from the 11 years and above (M = 5.58, SD = 1.55), to 6 – 10 years (M = 5.43, SD = 1.26), to 1 – 5 years (M = 5.45, SD = 1.38) occupational experience groups. Tukey-HSD post hoc analysis revealed that the mean increase from 11 years and above to 1 – 5 years was statistically significant (p = 0.014), as well as the increase from 11 years and above to 6 – 10 years was significantly significant (p = 0.017).

6.6 Discussion For Phase-2

The major emphasis of this chapter was to understand the perceived relationships between various OLC stages and business-stakeholder engagement model through the three tenets of stakeholder theory. The empirical results enabled us to establish that ICT-sector start-up stage firms are perceived to be demonstrating a more cooperative strategic posture than the growth stage firms. We also found that start-up stage firms perceived to be focusing lesser on narrowly economic view than the firms at the growth and mature OLC stages. However, contrary to our prediction, start-up stage firms believed to be exhibiting lesser degree of jointness of interest as compared to the growth and mature OLC stages. These findings allowed us to state that the ICT-sector start-up stage firms are perceived to be

partially receptive toward the VAS ('creating value for all stakeholders') business-stakeholder engagement model.

The evidence also suggests that growth stage firms from the ICT-sector are perceived to be lesser cooperative than the start-up and mature stage firms. We also found that growth stage firms are perceived to be focusing more on narrowly economic view than the firms at the start-up OLC stage. However, contrary to our prediction, growth stage firms perceived to be exhibiting more jointness of interest as compared to the start-up stage firms. These findings allowed us to state that the ICT-sector growth stage firms are perceived to be partially receptive toward the CSR ('corporate social responsibility') business-stakeholder engagement model.

Lastly, the evidence implies that mature stage firms from the ICT-sector are perceived to be more cooperative than the growth stage firms. We further found that mature stage firms are perceived to be focusing more on narrowly economic view than the start-up stage firms. However, contrary to our prediction, mature stage firms are perceived to be exhibiting more jointness of interest than the start-up stage firms. We predicted that both, start-up and mature stage firms should not be significantly different in terms of their focus on the notion of jointness of interest. These findings allowed us to state that the ICT-sector mature stage firms are perceived to be partially receptive toward the CSV ('creating shared value') business-stakeholder engagement model.

Table 25 summarizes the results of hypotheses tested in the Phase-2 study.

Table 25: Summary Of Hypotheses Test Results In Phase-2 Study

	Hypotheses	Results		
Hypothesis 1a	With respect to VAS, 'Start-up' firms are perceived to be more likely to demonstrate cooperative strategic posture than are the 'Growth' firms.	Supported		
Hypothesis 1b	With respect to VAS, 'Start-up' firms are perceived to be less likely to demonstrate a narrowly economic view of the firm than are the 'Growth' and 'Mature' firms.	Supported		
Hypothesis 1c	With respect to VAS, 'Start-up' firms are perceived to be more likely to demonstrate jointness of interest than are the 'Growth' firms.	Rejected		
Proposition 1	Start-Up stage ICT firms are perceived to be more receptive toward VAS model		Partially Supported	
Hypothesis 2a	With respect to CSR, 'Growth' firms are perceived to be less likely to demonstrate cooperative strategic posture than are the 'Start-up' and 'Mature' firms.	Supported		
Hypothesis 2b	With respect to CSR, 'Growth' firms are perceived to be more likely to demonstrate a narrowly economic view of the firm than are the 'Start-up' firms.	Supported		
Hypothesis 2c	With respect to CSR, 'Growth' firms are perceived to be less likely to demonstrate jointness of interest than are the 'Start-up' and 'Mature' firms.	Rejected		
Proposition 2	Growth stage ICT Firms are perceived to be more receptive toward CSR model		Partially Supported	
Hypothesis 3a	With respect to CSV, 'Mature' firms are perceived to be more likely to demonstrate cooperative strategic posture than are the 'Growth' firms.	Supported		
Hypothesis 3b	With respect to CSV, 'Mature' firms are perceived to be more likely to demonstrate a narrowly economic view of the firm than are the 'Start-up' firms.	Supported		
Hypothesis 3c	With respect to CSV, 'Mature' firms are perceived to be more likely to demonstrate jointness of interest than are the 'Growth' firms.	Rejected		
Proposition 3	Mature stage ICT Firms are perceived to be more receptive toward CSV model		Partially Supported	

Although, the main highlight of our research was to underpin the receptiveness of ICT-sector firms from various OLC stages toward different business-stakeholder engagement models, we also attempted to expand our understanding about the relationship between years of occupational experience and importance given to a mix of internal and external organizational stakeholders. The results showed us an interesting trend. For instance, we observed that representatives of the ICT-sector, under 10 years of experience exhibited more importance to external stakeholders, such as, communities, environment, government, non-governmental organizations, and trade associations – in comparison to ICT-sector representatives above 10 years of working experience.

Chapter 7

Conclusion, Limitations And Future Research

7.1 Conclusion

Business dynamics have radically evolved under the catalytic effects of technological innovation and communications around the globe. Most businesses seek to capture 'value' through resolution of socio-economic issues and positive impacts. However, there are likes of Enron (2001), WorldCom (2002), AOL (2002), Xerox (2000), MicroStrategy (2000), who are sometimes seen as promulgating the societal impacts of fraudulent business practices and unethical 'shareholders' centric policies (Cohen et al., 2013). Several academic scholars and practitioners have tried to address these complex business issues from the viewpoints of business ethics, corporate social responsibility, environmentbusiness relationship, and trade sustainability, among others (Carroll, 1999; Sharma, 2000; Jenkins, 2005; Prahalad & Hart, 2002; Freeman et al., 2010; Porter & Kramer, 2011). The focus for some of these scholars seems to have shifted toward promoting multi-stakeholder perspective, instead of concentrating on a single or uni-stakeholder view of the firm for creating 'value'. But without a clear understanding and distinction between these various models, it remains difficult to assess longer-term business sustainability and prosperity. We also seek to advance the work of Argandona (2011) which theoretically explored the meaning of the term 'value' in the context of stakeholder management. Argandona (2011) presented a view of stakeholders in his study; however, we examine firms at different organizational life cycle (OLC) stages, describing how they actually perceive creating 'value' for their stakeholders. In an attempt to advance theoretical model building of our study, we use stakeholder theory as a framework to further measure how 'value' is perceived to be created or captured by organizations for their stakeholders.

The main purpose of conducting this research was to explore the nascent concept of OLC stage firms creating idiosyncratic 'value' for organizational stakeholders. Our efforts were driven to underpin this notion in a systematic and scientific manner. We explored the ICT-sector firms at three: start-up, growth, and mature OLC stages. In literature we searched for the key differentiations between various types of business-stakeholder engagement models to hypothesize our OLC stage trends. These business-stakeholder engagement models were identified as 'corporate social responsibility' (CSR), 'creating shared value' (CSV) and 'creating value for all stakeholders' (VAS) (Freeman et al., 2010). Using three tenets of stakeholder theory (Strand & Freeman, 2013) we explored whether start-up, growth and mature OLC stages were more receptive toward the VAS, CSR, and VAS models, respectively. The findings from the study established at least a partial perceptual receptiveness relationship among the OLC stages and the business-stakeholder engagement models in the order aforementioned.

Our study contributes to the literature on stakeholder theory, ICT-sector organizational life cycle framework, and methods for measuring organizational decision makers' perceptions about stakeholder engagement. We noticed that the empirical evidence from our research – to enhance the understanding of ICT-sector firms at various OLC stages – strengthens Donaldson and Preston (1995), Jones and Wicks (1999), and Jawahar and McLaughlin's (2001) notions about the descriptive aspect of stakeholder theory. We take this to mean that the descriptive aspect of stakeholder theory approach allow us to explore business organizations effectively. These findings could provide us with a direction for further exploring claims of stakeholder theory – providing divergent narratives for understanding organizations in stakeholder terms (Jones, 1995; Freeman, 1999). For instance, instrumental claims like, multi-stakeholder perspective promoting long lasting business sustainability and prosperity, as compared with models like residual-CSR, could be further explored using our

exploratory 'value-creation' framework. We discuss about how to apply and test these claims in the 'Future Research' section.

Recently, a review report was published to assess the impacts of 'Social Value Act of United Kingdom (2013)'. It was aimed at promoting broader social, economic and environmental benefits by publically commissioned personnel in the procurement of supplies and services. The report highlighted the potential and shortcomings associated with the Act in its two years tenure. The most prominent challenges uncovered by the report were the lack of defining, measuring and quantifying the idea of 'social value' (Social Value Act Review Report, 2015). We believe that our methods of inquiry in this study may be helpful in addressing some of the outlined challenges. The overall phenomena of promoting innovation and autonomy, even at a governmental level (in case of the Social Value Act of UK) may be indicating that the conventional models of business-stakeholder engagement have not delivered up to their potential. Similar legislation may influence firms in the direction of thinking and justifying larger economic, societal and environmental impacts as a prerequisite to business development. However, this should not be limited to only publically funded procurement processes – as in the case of the Social Value Act of UK.

According to Porter and Van der Linde (1995), businesses should innovate to offset the costs associated with environmental regulations to increase industrial competitive edge. By drawing a recent example from a non-ICT industry in a similar environmental and innovative context – the founder of Keurig K-Cups was quoted in an interview as saying: "I feel bad sometimes that I ever did it" – as his product threatens the environment due to the non-recyclable material used in the coffee pods (Hamblin, 2015). This pollution attracted a severe consumer criticism and reaction.

We think some useful and practical implications follow from our work as well. For instance, assuming our findings replicate, a society that seeks to encourage technology companies to broaden

their range of stakeholders for innovation (e.g., to include communities, environment) might direct instrumental change toward 'start-up' firms as appreciative of VAS — even if these new firms require some time to develop perspectives of 'jointness of interest' as they strive to become 'growth' and 'mature' firms. We may also take this to mean that typically start-up stage ICT-sector firms consider fewer stakeholders as legitimate as compared to the growth and mature stage organizations. There remains an opportunity to mentor start-up stage firms — such that they foster multi-stakeholder view right from the venture inception. We believe that this 'descriptive' view of the stakeholder theory provided a stronger exploratory framework to extend our understanding about how ICT-sector firms create 'value' for their stakeholders. Some follow-on studies will likely be better directed based on our study's finding — which further advances the exploration about the 'instrumental' claims of the stakeholder theory.

The evidence from our experiment-based exploratory study also showed an interesting trend. The next generation executives, with less than 10 years of occupational experience (as compared to executives with over 10 years of the industry experience) in the ICT-sector are perceived to be exhibiting more importance to external / secondary business stakeholders – these including communities, environment, government, non-governmental organizations (NGOs), and trade associations. We take this to mean that there may be signs of a transition happening toward adapting a multi-stakeholder view of the firms, at least as are evident in the ICT industry. Such trends increase the importance of investigating instrumental claims about the stakeholder theory in future research.

7.2 Research Limitations

Like any other research study, our Phase-1 and Phase-2 studies also contained certain limitations. For instance, in Phase-1 of our study, we mainly focused on three: start-up, growth, and mature OLC stages, instead of exploring a greater variety of organizational development stages. We specifically

avoided including the decline stage in our study – due to practical and ethical considerations. Time constraints also played a deciding factor for limiting the scope of our study to only three OLC stages. Another limitation for Phase-1 study could be related to sample selections and sample size. A small convenience sample of 18 participants was selected for this study. However, it is not uncommon in studies using the systematic technique of repertory grid (RepGrid), working with a smaller group of individual experts. We used the rigor of the RepGrid technique analysis to develop a better-informed Phase-2 study to further exploring our research topic.

In the Phase-2 study, a potential limitation could be the self-reporting aspect of collecting the data, instead of using other secondary sources. Our primary focus of conducting this research was to understand the notion of 'value-creation' by organizations at different OLC stages. It was believed that top executives of organizations have the ability to correctly reflect upon the inquired notion. Therefore, reliance on collecting self-reported data was considered an adequate method. Another limitation could be in terms of this study's generalizability – we designed it as a perception-based study. Also, the demographic characteristics of the participants make it less generalizable for a broader ICT-sector domain and other industries.

7.3 Future Research

With the methodological adjustments to the current study – of using the differences claimed among the start-up, growth and mature OLC stages, future empirical studies could involve the actual behavioral observation of key tenets of stakeholder theory, such as, 'jointness of interest', 'cooperative strategic posture', and 'narrow economic view of the firms' (Strand & Freeman, 2013) – instead of observing perceptions only. We may achieve these objectives by conducting longitudinal studies or developing industrial case studies to empirically support or reject the instrumental claims of the stakeholder theory.

The outcomes from Phase-1 were perceived as reflecting 'vested-interest' judgments from ICT business experts. This suggests narrow, bounded, exclusive, and 'As It Is' tactic to understanding stakeholder 'value-creation'. However, we could also extend our research in the direction of 'normative-interest' judgments to gain further benefit. This approach may imply broad, unbounded, inclusive, multi-stakeholder, and 'As It Ought To Be' focus with the 'vested-interest' to gain understanding about various business-stakeholder engagement models better. We could perhaps design a between-subjects survey study to test both, 'vested-interest' versus 'normative-judgment' constructs from a more generalized population using online crowdsourcing participant recruitment services.

Further studying the concept of 'value-creation' at the global level could potentially gauge a broader perspective about firms at different developmental stages in creating 'value' for primary and secondary stakeholders. It may play a role in reducing gaps between under-developed, developing, and developed economies of the world by promoting sustainable business models through 'value-creation' that is beyond pursing the narrowly established goals.

We look to the public-policy sector to encourage 'value-creation' for all the stakeholders – which could mean possibly directing businesses away from traditional CP, CSR, or CSV practices and toward a multi-stakeholder sustainable VAS model. We might also create increased awareness about legislation like the 'Social Value Act of United Kingdom' and try to replicate such initiatives to benefit both developed economies (e.g., Canada), as well as underdeveloped / developing economies (e.g., Pakistan), and to support resolution of some societal issues through businesses that justify creation of broader social, economic and environmental values. However, we do acknowledge that if such legislation is not executed well or without a clear direction, it may lead firms to 'green wash' their initiatives to gain social legitimacy.

Appendix A

Phase-1 Interview Protocol



Management Science Department -Faculty of Engineering University of Waterloo 200 University Avenue West Waterloo, Ontario, Canada N2L 3G1 1-519 888-4567 ext. 33998 mushah@uwaterloo.ca

Dear						

This letter is an invitation to participate in a research study. As a full-time PhD student in the Department of Management Science, Faculty of Engineering at the University of Waterloo, I am currently conducting research under the supervision of Professor Paul D. Guild toward an understanding of how firms create value.

Study Overview

Our study investigates the application of various business models among ICT firms at different development stages.

Your Involvement

If you agree to participate in this study, I will conduct a face-to-face interview with you. As part of the interview I would like to obtain your input on some essential elements for understanding firms creating value for their stakeholders. This activity involves me showing you some attributes about various stakeholders as identified from management literature. It will allow us to elicit personal constructs from practitioners like you. In the interview I will ask you a series of questions about how you perceive value-creation for your own stakeholders. I would ask that any opinions expressed be your own.

The interview session would last about forty-five minutes to one hour and would be arranged at a time convenient to your schedule. To ensure the effective capture of your input, I would ask your permission to audio-record the interview. Only I, the student researcher, to aid with my analyses of the input you provide and to ensure I did not miss anything you said, will review these recordings. I will erase the recordings after two years of completion of the project.

Participation in the interview session is entirely anonymous and voluntary and there are no known or anticipated risks to participation in this study. Of course, involvement in the interview will have no impact on your relationship with your performance, or your position within the organization. You may decline to answer any of the questions you do not wish to

answer. Further, you may decide to withdraw from this study at any time, without any negative consequences, simply by letting me know your decision. All information you provide will be considered confidential unless otherwise agreed to, and the data collected will be kept in a secure location and confidentially disposed of in two years time.

Your name or your position will not appear in any thesis or publications resulting from this study unless you provide express consent to be identified and have reviewed the thesis text and approved the use of the quote. If you would like a summary of results, please let me know now by providing me with your email address. When the study is completed, I will send a copy of it to you. This study is expected to be completed by December 2015.

Remuneration

As a token of our appreciation, all participants will receive a \$25 gift card for Amazon.

The amount received is taxable. It is your responsibility to report this amount for income tax purposes.

Contact Information

If you have any questions regarding this study, or would like additional information about participation, please contact me at 1-519-888-4567 ext. 33998 or by email mushah@uwaterloo.ca. You can also contact my supervisor Professor Paul D. Guild by telephone at 1-519-888-4567 ext. 84808 or by email at guild@uwaterloo.ca.

I assure you that this study has been reviewed and received ethics clearance through the Office of Research Ethics at the University of Waterloo. However, the final decision to participate is yours. If you have any comments or concerns resulting from you participation in this study, please contact Dr. Maureen Nummelin of this office at 1-519-888-4567 ext. 36005 or by email at maureen.nummelin@uwaterloo.ca.

Thank you in advance for your interest and assistance with this research.

Yours very truly,

Muhammad Umair Shah PhD Candidate Department of Management Sciences University of Waterloo

CONSENT FORM

By signing this consent form, you are not waiving your legal rights or releasing the investigator(s) or involved institution(s) from their legal and professional responsibilities.

I have read the information presented in the information letter about a study being conducted by Muhammad Umair Shah (1-519-888-4567 ext. 33998 or by email at mushah@uwaterloo.ca) of the Management Science Department, Faculty of Engineering at the University of Waterloo, under the supervision of Professor Paul Guild (1-519-888-4567 ext. 84802 or by email at guild@uwaterloo.ca). I have had an opportunity to ask any questions related to this study, to receive satisfactory answers to my questions, and any additional details I wanted.

I am aware that I have the option of allowing my interview to be audio recorded to ensure an accurate recording of my responses.

I am also aware that excerpts from the interview may be included in the thesis and/or publications to come from the research, with the understanding that quotations will be either anonymous or attributed to me only with my review and approval.

I was informed that I may withdraw my consent at any time without penalty by advising the researcher.

This project has been reviewed by, and received ethics clearance through, the Office of Research Ethics at the University of Waterloo. I was informed that if I have any comments or concerns resulting from my participation in this study, I may contact the Director, Office of Research Ethics at 519-888-4567 ext. 36005.

There are a few points mentioned below, please respond by **encircling** any one option from the given two options:

- With full knowledge of all foregoing, I agree, of my own free will, to participate in this study
 (Yes / No)
- I agree to have the interview and the conversations can be audio-recorded to aid with the analyses and report writing
 (Yes / No)
- I agree to the use of anonymous quotations in any thesis or publication that comes of this research
 (Yes / No)
- I agree to the use of direct quotations attributed to me only with my review and approval
 (Yes / No)

TOWARD AN UNDERSTANDING OF FIRMS 'CREATING VALUE'

An Organizational Life Cycle and Stakeholder Theory Perspective on Business-Stakeholder Engagement Models

1. PURPOSE

The purpose of this study is to understand the application of various business models among ICT firms at different developmental stages.

All information provided through this interview process is completely anonymous. There will be no attribution of any opinions shared. You may stop the interview at any time.

2. INSTRUCTIONS

This interview protocol follows a systematic approach for scientific purposes. Your adherence to it will be highly appreciated.

The interview protocol is a mix of some open-ended and closed-ended questions and the session will last about forty-five minutes to one hour.

Thank you and we hope that you enjoy it!

3. DEMOGRAPHIC INFORMATION

Q1 a. Which of the following options best describes your recent role within the ICT sector?							
(Please mark one of these options)							
 □ Entrepreneur □ Product developer □ Software developer □ Project manager □ Academic researcher □ Industrial researcher □ Business manager □ Market developer / Marketing coordinator 		Consultant Technician / Technical adviser Financial adviser Policy adviser / Policy maker User Analyst Other (Please specify)					
Q1 b. For how many years have you worked in the role	indic	cated above?					
Years.							
Q2. What is (are) the ICT technology (ies) with which y	ou a	re mainly focused on today?					
☐ Mobile ☐ Software ☐ Hardware ☐ Internet		Social interaction Media Other (Please specify)					
Q3. What is your current job title?							
(Please mark one of these options)							
☐ Technician / Technical adviser ☐ Product developer ☐ Software developer ☐ Project manager ☐ Business owner ☐ Business investor ☐ Researcher ☐ Professor		Analyst Consultant Manager Director CEO Other (Please specify)					

Q4. Ho	ow many years of total experience do you have in	the	ICT industry?
	Years.		
Q5. Wl	hat is your highest educational degree?		
(Pl	ease mark one of these options)		
	Less than high school High school College diploma Undergraduate degree MBA or equivalent degree Masters degree or equivalent graduate degree		Doctorate degree or equivalent graduate degree Prefer not to answer Other (Please specify)
Q6. Ple	ease indicate the answer that best describes your a	ige.	
	I am under 20 years of age I am between 20 and 25 years of age I am between 26 and 35 years of age I am between 36 and 45 years of age I am between 46 and 55 years of age I am between 56 and 65 years of age I am over 66 years of age I prefer not to answer		
Q7. WI	hat is your education and training background?		
	Life sciences Computer sciences Physical sciences Arts / Humanities Engineering Social sciences		Mathematics Business Prefer not to answer Other (Please specify)
	hich of the following terms best describe the orgadustry?	niza	tions for which you work within the
	Business organization University / College Nonprofit organization		Governmental organization Other (Please specify)

Q9. In which of the following jurisdictions your organiz	ation operates?
 □ Asia □ Europe □ North America (Canada) □ North America (USA) □ North America (Mexico) □ South America 	☐ Africa ☐ Middle East ☐ Oceania-Australia ☐ Central America ☐ Other (Please specify)
Q10. In what year was your company founded?	
Q11. What are your annual net sales in Canadian dollars	?
Q12 a. How many full-time employees does your compa	any have?
Q12 b. How many part-time employees does your comp	any have?
Q13. How much is your annual net sales growth express	ed as a percentage?
Q14. How would your firm be categorized?	
 ☐ Mainly as a service provider ☐ Mainly as a manufacturing enterprise ☐ Other (please specify) 	
Q15. We specialize in:	
(Please mark one of these options)	
 □ Only 1 product or service □ Between 2 and 5 products or services □ Between 6 and 10 products or service □ Between 11 and 15 products or services □ Between 16 and 20 products or services □ Over 20 products or services 	

Q16. On a continuum of *standardized* products or services versus *customized* products or services, in terms of the level of your product(s) or service(s) orientation, please indicate where your firm is located?

Standardized	1	2	3	4	5	6	7	8	9	Customized
Products or Services	О	О	О	О	О	О	О	О	О	Products or Services

4. UNDERSTANDING OF ORGANIZATIONAL LIFE CYCLE STAGES

Q17 a. In start-up st	your view, please identify three important differentiating factors that could define a rage firm?
2	
Q17 b. In <i>growth</i> sta	your view, please identify three important differentiating factors that could define a age firm?
2	
	your view, please identify three important differentiating factors that could define a nedium-sized enterprise?
2	
Q17 d. In mature sta	your view, please identify three important differentiating factors that could define a age firm?
_	
Q17 e. In g	your view, please identify three important differentiating factors that could define a age firm?
1 2 3	

enterprises? (Please mark one of these options) ☐ Specialized knowledge of *start-up* stage business enterprise as a *scholar* (in theory) ☐ Specialized knowledge of *start-up* stage business enterprise as a *practitioner* (in practice) ☐ Specialized knowledge of *growth* stage business enterprise as a *scholar* (in theory) ☐ Specialized knowledge of *growth* stage business enterprise as a *practitioner* (in practice) ☐ Specialized knowledge of *mature* stage business enterprise as a *scholar* (in theory) ☐ Specialized knowledge of *mature* stage business enterprise as a *practitioner* (in practice) Q19. In you opinion, at what stage do you consider your organization to be at? ☐ Start-up ☐ Small to medium sized ☐ Growth □ Decline

Q18. Which of the following options best describe your expertise in relation to business

5. REPERTORY GRID INTERVIEW

What ways two of the stakeholders are alike and in what way the third stakeholder is different from the other two in terms of your firm creating value for them.

A triad is chosen at random from the following list of nine elements:

- 1) Financiers
- 2) Suppliers
- 3) Customers
- 4) Employees
- 5) Environment
- 6) Communities
- 7) Non-Governmental Organizations (NGOs)
- 8) Governments
- 9) Trade Associations

6. UNDERSTANDING OF BUSINESS-STAKEHOLDER ENGAGEMENT MODELS

Q20 a. What is your most frequent way of thinking about the explanation of *start-up stage* organizations in terms of *stakeholder engagement*? Do you think that they usually have a unistakeholder focus OR that they have a multi-stakeholder perspective?

Uni-	1	2	3	4	5	6	7	8	9	Multi-
Stakeholder Perspective	О	О	0	О	О	О	О	О	0	Stakeholder Perspective

Q20 b. What is your most frequent way of thinking about the explanation of *growth stage* organizations in terms of *stakeholder engagement*? Do you think that they usually have a unistakeholder focus OR that they have a multi-stakeholder perspective?

Uni-	1	2	3	4	5	6	7	8	9	Multi-
Stakeholder Perspective	О	0	О	О	О	0	О	О	0	Stakeholder Perspective

Q20 c. What is your most frequent way of thinking about the explanation of *mature stage* organizations in terms of *stakeholder engagement*? Do you think that they usually have a unistakeholder focus OR that they have a multi-stakeholder perspective?

Uni-	1	2	3	4	5	6	7	8	9	Multi-
Stakeholder Perspective	О	О	О	0	О	О	О	О	О	Stakeholder Perspective

Q21 a. What is your most frequent way of thinking about the explanation of *start-up stage* organizations in terms of their *dominant aim*? Do you think that they have a _____.

☐ Competitive focus to earn profit only

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	0	О	О	0	О	О	О	О	Deal

☐ Cooperative focus to create profitable win-win

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ Collaborative focus including profit

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ Other (please specify)

	1	2	3	4	5	6	7	8	9	A Great
Not At All	0	0	0	0	0	0	0	0	0	A Great Deal

Q21 b. What is your most frequent way of thinking about the explanation of *growth stage* organizations in terms of their *dominant aim*? Do you think that they have a _____.

☐ Competitive focus to earn profit only

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	Deal

☐ Cooperative focus to create profitable win-win

	1	2	3	4	5	6	7	8	9	A Great
Not At All	0	О	0	О	О	0	0	0	0	A Great Deal

☐ Collaborative focus including profit

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ Other (please specify) _____

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

Q21 c. What is your most frequent way of thinking about the explanation of *mature stage* organizations in terms of their *dominant aim*? Do you think that they have a _____.

☐ Competitive focus to earn profit only

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	0	О	О	О	О	О	A Great Deal

☐ Cooperative focus to create profitable win-win

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ Collaborative focus including profit

	1	2	3	4	5	6	7	8	9	A Great
Not At All	0	0	0	0	0	0	0	0	0	Deal

☐ Other (please specify)

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	0	О	О	0	О	0	О	О	A Great Deal

Q22 a. What is your most frequent way of thinking about the explanation of *start-up stage* organizations in terms of their *economic focus*? Do you think that it is their _____.

☐ Primary concern, with little or no distraction

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ Shared concern between partners

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ One concern among several

	1	2	3	4	5	6	7	8	9	A Crost
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ Other (please specify) _____

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

Q22 b. What is your most frequent way of thinking about the explanation of *growth stage* organizations in terms of their *economic focus*? Do you think that it is their _____.

☐ Primary concern, with little or no distraction

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	0	О	0	О	О	О	О	Deal

☐ Shared concern between partners

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	Deal

☐ One concern among several

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ Other (please specify) _____

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	0	О	О	0	О	0	О	О	A Great Deal

Q22 c. What is your most frequent way of thinking about the explanation of *mature stage* organizations in terms of their *economic focus*? Do you think that it is their _____.

☐ Primary concern, with little or no distraction

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	0	0	0	О	О	О	О	0	Deal

☐ Shared concern between partners

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ One concern among several

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	О	О	О	О	О	О	О	О	A Great Deal

☐ Other (please specify)

	1	2	3	4	5	6	7	8	9	A Great
Not At All	О	0	О	О	0	О	0	О	О	A Great Deal

Q23. When thinking about *business-stakeholder engagement models*, how could each of these be described as *newer* versus *older paradigms?*

☐ Corporate Social Responsibility (CSR)

Older Paradigm	1	2	3	4	5	6	7	8	9	Newer	Don't Know
	0	0	О	0	О	О	О	0	О	Paradigm	О

☐ Creating Shared Value (CSV)

Older Paradigm	1	2	3	4	5	6	7	8	9	Newer	Don't Know
	0	0	0	0	0	0	0	0	0	Paradigm	О

☐ Creating Value For All Stakeholders (VAS)

Older Paradigm	1	2	3	4	5	6	7	8	9	Newer	Don't Know
	0	0	0	O	0	0	0	0	0	Paradigm	О

Q24. In terms of the importance of stakeholders to an organization most familiar to you, please rank order the following (1 = most important and 9 = least important)

	Communities	
	Financiers	
	Employees	
	Suppliers	
	Customers	
	Environment	
	NGOs	
	Government	
	Trade Associations	
This ex	ample organization is a _	firm
	Start-up	
	Small to medium sized	
	Growth	
	Mature	
	Declining	





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Dear Participant,

I would like to thank you for your participation in this study. As a reminder, the purpose of this study is to investigate the application of various business models among ICT firms at different development stages.

The data collected through interviews will contribute to a better understanding of firms at different development stages creating 'value' for their stakeholders.

Please remember that any data pertaining to you as an individual participant will be kept confidential. Once all the data are collected and analyzed for this project, I plan on sharing this information with the research community through seminars, conferences, presentations, and journal articles. If you are interested in receiving more information regarding the results of this study, or if you have any questions or concerns, please contact me at either the phone number or email address listed at the bottom of the page. If you would like a summary of the results, please let me know now by providing me with your email address. When the study is completed, I will send it to you. The study is expected to be completed by December 2015.

I have also shared my faculty supervisor's name and contact information as an alternative person to contact if there are questions about the study results or final paper at the bottom of the page.

This project has been reviewed and received ethics clearance through a University of Waterloo Research Ethics Committee. However, the final decision about participation is yours. Participants who have concerns or questions about their involvement in the project may contact the Chief Ethics Officer, Office of Research Ethics at 519-888-4567, Ext. 36005 or maureen.nummelin@uwaterloo.ca

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As a token of appreciation, I have a amount received is taxable. It is yo	received a C\$25 Amazon gift certificate through email. The our responsibility to report this amount for income tax purposes.
N Cd C	
Name of the participant	
Signature of the participant	-
Date	-
Witness name	
Witness signature	-
Date	-

Appendix B

Cue Cards Of Elements And Definitions Of Stakeholders And OLC Stages

EMPLOYEES

CUSTOMERS

COMMUNITIES

SUPPLIERS

FINANCIERS

NON-GOVERNMENTAL ORGANIZATIONS (NGOs)

TRADE ASSOCIATIONS

GOVERNMENT

ENVIRONMENT

What is meant by Start-Up, Growth and Mature stage organizations?

According to the literature there are multiple stages an organization has to go through as it develops. This phenomenon is known as 'Organizational Life Cycle'.

The various stages, such as start-up, growth and mature consist of different sets of organizational activities and structures.

What is a Stakeholder?

"Business can be understood as a set of relationships among groups which have a stake in the activities that make up the business.

Any group or individual who can affect or is affected by the achievement of the organization objectives." – Freeman et al. (2010)

Appendix C

Elicited Differentiating Constructs Among Various OLC Stages

Start-Up Stage Constructs	Main Categories	Total Constructs
Start-Op Stage Constructs	wiam Categories	Per Category

1	Revenue (deficit/borrowing money)	Capital	Revenue (deficit/borrowing
2	Dependent on investment for continued operation	Capital	money);
3	Funding stage	Capital	Dependent on
4	Limited funding and revenue	Capital	investment for continued
5	Low assets / Capital (less than 1 million USD)	Capital	operation;
6	Haven't found recurring annual revenue	Capital	Funding stage;
7	No revenue	Capital	Limited funding and revenue;
8	Revenue (less than \$100K)	Capital	Low assets /
9	Outside funding	Capital	Capital (less than 1 million
10	25% to 50% revenue / user base annually	Capital	USD); Haven't
11	Trying to get seed capital	Capital	found recurring annual revenue; No revenue; Revenue (less than \$100K); Outside funding; 25% to 50% revenue / user base annually; Trying seed capital
12	None to few customers	Customers	None to few
13	Small but growing customer base	Customers	customers; Small but growing customer base
14	High growth rate	Growth	High growth rate;
15	Intends to grow	Growth	Intends to grow; Growth rate /
16	Growth rate / Aggregate sales	Growth	Aggregate sales
17	Speed to market	Markets	Speed to market;
18	Haven't fully defined market (have just a general sense of it)	Markets	Haven't fully defined market
19	Billion dollar market size	Markets	(have just a general sense of
20	New to market	Markets	it); Billion dollar
21	Focused market	Markets	market size; New to market; Focused market

22	Small size / Employees (under 100)	Number of	Small size /
	Cinal Size / Employees (under 100)	Employees	Employees (under
23	Size (less than 20)	Number of	100); Size (less
		Employees	than 20); Number
24	Number of employees (12)	Number of	of employees (12);
	(: <u>-</u>)	Employees	Small size /
25	Small size / Employees (1 - 100)	Number of	Employees (1 - 100); Small team
	- Committee of the contract of	Employees	(3 to 5); 1 to 4
26	Small team (3 to 5)	Number of	founders; Less
	(Employees	than 5 employees
27	1 to 4 founders	Number of	/ Small
		Employees	management
28	Less than 5 employees / Small management team	Number of	team; Team size
	· , · · · ·	Employees	(less than 10);
29	Team size (less than 10)	Number of	Number of
	,	Employees	employees (under
30	Number of employees (under 25 for start-up)	Number of	25 for start-up);
	, , , , , , , , , , , , , , , , , , , ,	Employees	Fluidity /
31	Fluidity / Employees between 1 and 50 (at max)	Number of	Employees
	, , ,	Employees	between 1 and 50
32	10 or less people	Number of	(at max); 10 or
		Employees	less people;
33	Blurred accountabilities (everybody doing everything) / Employees 10 to 15	Number of Employees	Blurred accountabilities (everybody doing everything) / Employees 10 to
34	Flat hierarchy	Organizational Structure	Flat hierarchy; Privately owned;
35	Privately owned	Organizational	Roles in
	·	Structure	organization are
36	Roles in organization are fluid or poorly defined (people often do more than one type of task, and tasks change)	Organizational Structure	fluid or poorly defined (people often do more
37	Informal organization structure / culture	Organizational Structure	than one type of task, and tasks
20	Decrease time is adoutable 18 311	Organizational	change); Informal
38	Response time is adaptable / flexible	Structure	organization
39	Almost every job is multifaceted (multiple roles)	Organizational Structure	structure / culture; Response time is adaptable / flexible; Almost every job is multifaceted (multiple roles)
40	Lack of process	Processes	Lack of process;
41	Small media presence	Processes	Small media
41	omail media presence	Flocesses	Sinan incula

			presence
42	Non commercialized product	Products/Services	Non
43	Uncertainty of target markets / Beta testing	Products/Services	commercialized product;
44	Product development / Customers (paying)	Products/Services	Uncertainty of
45	Product is not mature (hasn't reached the market)	Products/Services	target markets /
46	Product(s) offered are subject to substantial change (pivoting)	Products/Services	Beta testing; Product
47	Minimum viable product (MVP)	Products/Services	development / Customers
48	Products/Services (less than 3)	Products/Services	(paying); Product is not mature (hasn't reached the market); Product(s) offered are subject to substantial change (pivoting); Minimum viable product (MVP); Products/Services (less than 3)
49	Low sales	Sales	Low sales; Less
50	Less than \$500K sales	Sales	than \$500K sales
51	Technical knowledge (lower)	Skills	Technical
52	Entrepreneur driven	Skills	knowledge (lower); Entrepreneur driven; One technology; Technology focus
53	One technology	Skills	
54	Technology focus	Skills	

1	Revenue (enough money coming in)	Capital	Revenue (enough
2	Not necessary dependent on investment for continued operation (revenues ~ expenses)	Capital	money coming in); Not necessary
3	Increasing revenue	Capital	dependent on
4	Revenue consistency (20% or greater)	Capital	investment for continued
5	Profit potential	Capital	operation
6	Find recurring revenue (annual)	Capital	(revenues ~
7	Increasing in revenue	Capital	expenses); Increasing
8	Capitalization / Product that is delivered	Capital	revenue; Revenue
9	Revenue (\$100 - 250K)	Capital	consistency (20%
10	Relevant financial models (not substantiated) maximum operating capacity versus expected returns	Capital	or greater); Profit potential; Find
11	Investment into company	Capital	recurring revenue (annual);
12	Positive valuation	Capital	Increasing in
13	Capital outsourcing	Capital	revenue;
14	Series A (already raised) venture capital (5 to 10 M dollars or 10 to 15 M dollars)	Capital	Capitalization / Product that is delivered; Revenue (\$100 - 250K); Relevant financial models (not substantiated) maximum operating capacity versus expected returns; Investment into company; Positive valuation; Capital outsourcing; Series A (already raised) venture capital (5 to 10 M dollars or 10 to 15 M dollars)
15	Increasing customer base	Customers	Increasing
16	User base size is growing	Customers	customer base; User base size is
17	Paying customers	Customers	growing; Paying customers
18	Sales growth - Inflection point	Growth	Sales growth -

19	High growth rate	Growth	Inflection point;
20	Investment required to sustain substantial growth / 300% to 2000% annual growth potential	Growth	High growth rate; Investment
21	Nearly 50% growth or maybe more	Growth	required to
22	20 % revenue growth Y/Y	Growth	sustain substantial growth / 300% to
23	25% monthly to 100% growth annually	Growth	2000% annual
24	Growth rate is greater than 10%	Growth	growth potential; Nearly 50% growth or maybe more; 20 % revenue growth Y/Y; 25% monthly to 100% growth annually; Growth rate is greater than 10%
25	Market defined / Adequate funding	Markets	Market defined /
26	Billion dollar market size	Markets	Adequate funding; Billion dollar market size
27	Medium sized company / Employees (over 100)	Number of Employees	Medium sized
28	Scale of customers and employees (30 employees)	Number of Employees	company / Employees (over
29	5 to 20 employees	Number of Employees	100); Scale of customers and
30	Size (20 - 50 employees)	Number of Employees	employees (30 employees); 5 to
31	More employees (2000)	Number of Employees	20 employees; Size (20 - 50
32	Established team (5 to 10)	Number of Employees	employees); More employees (2000);
33	Employee count is 100	Number of Employees	Established team (5 to 10);
34	Increased hiring	Number of Employees	Employee count is 100; Increased
35	30 to 100 employees	Number of Employees	hiring; 30 to 100 employees; Bigger
36	Bigger management team	Number of Employees	management team; Increasing number of
37	Increasing number of employees	Number of Employees	employees
38	Devolution of management, hierarchy, but few levels (less than 5)	Organizational Structure	Devolution of management,
39	Less flexible	Organizational Structure	hierarchy, but few levels (less than
40	Formalization of corporate structure - people have	Organizational	5); Less flexible;

	more specific job descriptions	Structure	Formalization of
			corporate
			structure - people
			have more specific
			job descriptions
41	Service fee is higher	Processes	Service fee is higher; Scramble /
42	Scramble / to get organized / process / increased marketing & awareness (with target market)	Processes	to get organized /
43	Maturity in systems / processes	Processes	process /
			increased marketing &
			awareness (with
			target market);
			Maturity in
			systems /
44	Formalized hiring (2 or more). Process formalized.	Processes	processes;
	Defined description	110003303	Formalized hiring
			(2 or more).
			Process
			formalized.
			Defined
			description
45	Expanded scope of work (Multiple products)	Products/Services	Expanded scope of work (Multiple
46	Product fully commercialized	Products/Services	products); Product
47	Diverse product line	Products/Services	fully
48	Products/Services (3 - 5)	Products/Services	commercialized;
49	Level of product development / stability	Products/Services	Diverse product
			line; Products/Services
			(3 - 5); Level of
50	Casling up and dustion	Dura de eta /Camaia a	product
50	Scaling up production	Products/Services	development /
			stability; Scaling
			up production
51	Sales increasing	Sales	Sales increasing;
52	\$500K to \$3 million sales	Sales	\$500K to \$3
			million sales;
	Certain amount of sales and revenue - achieved		Certain amount of
53	(users) traction	Sales	sales and revenue
	(doord) stability		- achieved (users)
			traction
		The second secon	Tochnology
54	Technology focus	Skills	Technology focus

Main Categories Total Constructs Per Category

	No lea continua con continua continua con continua cont	Comittee	Nolongor
1	No longer increasing annual revenue	Capital	No longer increasing annual
2	Stable revenue stream	Capital	revenue; Stable
3	Higher than average revenue	Capital	revenue stream;
4	Revenue (over \$1M)	Capital	Higher than
5	Profitable / less risk averse	Capital	average revenue; Revenue (over
6	Self sustaining in terms of revenue	Capital	\$1M); Profitable / less risk averse; Self sustaining in terms of revenue
7	Actively focused to avoid customer churn/turnover	Customers	Actively focused
8	Large customer base	Customers	to avoid customer churn/turnover; Large customer base
9	Consistent profitability (with a guesstimate of 5% to 30% annual growth)	Growth	Consistent profitability (with
10	Looking for new opportunities / revenue growth 1 to 3 %	Growth	a guesstimate of 5% to 30% annual
11	Revenue growth is low (less than 10% growth)	Growth	growth); Looking
12	Smaller growth rate / large aggregate sales	Growth	for new
13	Low growth rate	Growth	opportunities / revenue growth 1
14	Stable year over year growth	Growth	to 3 %; Revenue
15	No significant increase in revenue (~10% growth)	Growth	growth is low (less
16	Limited growth opportunities in primary markets (e.g. Microsoft entered games with XBox)	Growth	than 10% growth); Smaller growth
17	Growth through acquisition	Growth	rate / large aggregate sales;
18	Growth through acquisition	Growth	Low growth rate;
19	"Easy marketing \$" / Budget / Awareness is high / 10% to 15% annual revenue growth	Growth	Stable year over
20	Growth rate 5 to 8 %	Growth	year growth; No significant increase in revenue (~10% growth); Limited growth opportunities in primary markets (e.g. Microsoft entered games with XBox); Growth through acquisition; Growth through

			acquicition, "Eacy
			acquisition; "Easy marketing \$" /
			Budget /
			Awareness is high
			/ 10% to 15%
			annual revenue
			growth; Growth
			rate 5 to 8 %
21	Market leader	Markets	Market leader;
22	Floated publicly	Markets	Floated publicly; From IPO to
23	From IPO to private equity	Markets	private equity;
24	Publicly held (IP)	Markets	Publicly held (IP);
25	Diverse in several market - more products	Markets	Diverse in several
			market - more products; Expand
26	Expand into now markets, expand product line	Markets	into new markets,
20	Expand into new markets, expand product line	ivial kets	expand product
			line
27	No significant increase (gradual increase in number of	Number of	No significant
<u> </u>	employees)	Employees	increase (gradual
28	Size (over 100 employees)	Number of	increase in
	, , ,	Employees	number of employees); Size
29	20 employees	Number of	(over 100
		Employees Number of	employees); 20
30	Team (500 plus)	Employees	employees; Team
24	Hierarchy (upper management) / Top down approach /	Number of	(500 plus);
31	around 100 to 500 employees	Employees	Hierarchy (upper
32	Not actively hiring new employees	Number of	management) /
32	Two activery filling new employees	Employees	Top down approach / around
33	Number of employees (250 plus)	Number of	100 to 500
		Employees	employees; Not
34	Large employee numbers	Number of	actively hiring new
		Employees	employees;
35	Employees in 1000s	Number of Employees	Number of
		Number of	employees (250
36	More number of employees	Employees	plus); Large employee
			numbers;
			Employees in
37	10,000 employees	Number of	1000s; More
31	10,000 cilipioyees	Employees	number of
			employees;
			10,000 employees
38	"Bureaucracy" (high process / red tape)	Organizational	"Bureaucracy"
		Structure	(high process / red
39	Bureaucracy	Organizational	tape);

		Structure	Bureaucracy;
40	Thick walls	Organizational Structure	Thick walls; Group think /
41	Group think / Bureaucratic / Defined roadmap / Less impulse	Organizational Structure	Bureaucratic / Defined roadmap
42	Departmentalized	Organizational Structure	/ Less impulse; Departmentalized; Large enough to
43	Large enough to sustain all functions / Departments	Organizational Structure	sustain all
44	Static organizational structure (treat employees as interchangeable parts)	Organizational Structure	functions / Departments; Static organizational structure (treat employees as interchangeable parts)
45	Solutions "less customizable" (standard)	Processes	Solutions "less
46	Mechanistic systems and processes (highly formal structures)	Processes	customizable" (standard);
47	Weak signal's analysis (networks)	Processes	Mechanistic
48	Goal driven	Processes	systems and processes (highly formal structures); Weak signal's analysis (networks); Goal driven
49	Mature products	Products/Services	Mature products;
50	No longer innovating a product or service	Products/Services	No longer innovating a
51	Products/Services (10)	Products/Services	product or
52	Product recognition / reputation - stable	Products/Services	service; Products/Services (10); Product recognition / reputation - stable
53	High sales	Sales	High sales
54	Leaders innovation (creating the market, defining innovation, be like the beaver)	Skills	Leaders innovation (creating the market, defining innovation, be like the beaver)

1	Revenues are decreasing	Capital	Revenues are
2	Loss of revenue (declining revenue for your products)	Capital	decreasing; Loss of revenue
3	Annual revenues are declining	Capital	(declining revenue
4	Decreasing revenue	Capital	for your
5	Revenue decline	Capital	products); Annual revenues are
6	Falling share price (if publicly listed)	Capital	declining;
7	Revenue decline	Capital	Decreasing
8	25% decrease in revenues	Capital	revenue; Revenue
9	Valuation (decline valuation than previous one)	Capital	decline; Falling share price (if
10	Debt	Capital	publicly listed); Revenue decline; 25% decrease in revenues; Valuation (decline valuation than previous one); Debt
11	Customer support (declining)	Customers	Customer support
12	Active users	Customers	(declining); Active
13	Customer base dropping	Customers	users; Customer base dropping;
14	Maintaining existing customers verses attracting significant new business	Customers	Maintaining existing customers verses attracting significant new business
15	Year to year decrease in size	Growth	Year to year
16	Growth rate decline / stagnant	Growth	decrease in size; Growth rate
17	Less traction than projected	Growth	decline / stagnant;
18	Negative growth rate	Growth	Less traction than projected; Negative growth rate
19	Sun set market	Markets	Sun set market;
20	Markets share is decreasing	Markets	Markets share is decreasing; Loss
21	Loss of market share for the product line	Markets	O,
ļ	Loss of market share for the product line	Warkets	of market share
22	Shrinking primary market	Markets	for the product
			for the product line; Shrinking
22	Shrinking primary market	Markets	for the product

			(saturated);
			Inability to break
			into new markets; Increasing
			competition
		Number of	Large team (500
26	Large team (500 plus) that decreasing	Employees	plus) that
27	PR management in crisis / Negative economic impact / 100	Number of	decreasing; PR
27	to 250 employees	Employees	management in
28	Laying off (downsizing) employees	Number of	crisis / Negative
20	Laying on (downsizing) employees	Employees	economic impact /
29	Job cuts	Number of	100 to 250
		Employees	employees; Laying off (downsizing)
30	Lay offs and no cost efficiencies	Number of	employees; Job
		Employees Number of	cuts; Lay offs and
31	Stable employee numbers (or negative)	Employees	no cost
		Number of	efficiencies; Stable
32	Negative hiring	Employees	employee
		Number of	numbers (or
33	Attrition	Employees	negative); Negative hiring;
34	Attrition (amployage)	Number of	Attrition; Attrition
54	Attrition (employees)	Employees	(employees);
35	Attrition rate is higher	Number of	Attrition rate is
33	Attrition rate is higher	Employees	higher
36	Roles in organization become very rigid	Organizational	Roles in
30	Notes in organization become very rigid	Structure	organization
37	Management heavy / Slow decisioning process	Organizational	become very rigid;
	0,	Structure	Management
			heavy / Slow decisioning
		Organizational	process; Politics /
38	Politics / bureaucratic (more time justifying than doing)	Structure	bureaucratic
			(more time
			justifying than doing)
39	Morale is low (everyone is upset / gossip)	Processes	Morale is low
40	Unwilling to listen, losing touch and humility	Processes	(everyone is upset
41	Incremental versus disruptive innovation, loss of creativity	Processes	/ gossip); Unwilling to listen, losing touch and
42	Right for disruption	Processes	
			humility; Incremental
			versus disruptive
43	Actively involved in an exit strategy	Processes	innovation, loss of
.	rearrant and an extraction to by		creativity; Right
			for disruption;
			Actively involved

			in an exit strategy	
44	Stale / Expired product set	Products/Services	Stale / Expired product set; Product no longer	
45	Product no longer "cutting edge" (Market disappearing or being replaced)	Products/Services		
46	Products / Services becoming irrelevant	Products/Services	"cutting edge" (Market	
47	Year to year decrease in products/services	Products/Services	disappearing or	
48	Reduce the scope of their product line (Losing customers, lack growth)	Products/Services	being replaced); Products / Services becoming irrelevant; Year to year decrease in products/services; Reduce the scope of their product line (Losing customers, lack growth)	
49	Falling sales / revenue	Sales	Falling sales /	
50	Sales decreasing	Sales	revenue; Sales decreasing; Year	
51	Year to year decrease in sales	Sales	to year decrease	
52	Declining aggregate sales	Sales	in sales; Declining aggregate sales	
53	Technologically falling behind	Skills	Technologically	
54	Technology is irrelevant	Skills	falling behind; Technology is irrelevant	

Appendix D

Categorical Differentiating Constructs Among Various OLC Stages

	Start-Up Stage	Growth Stage	Mature Stage	Decline Stage
Capital	Revenue	Revenue (enough money	No longer increasing	Revenues are
	(deficit/borrowing	coming in); Not	annual revenue;	decreasing; Loss of
	money); Dependent on	necessary dependent on	Stable revenue	revenue (declining
	investment for continued	investment for continued	stream; Higher than	revenue for your
	operation; Funding	operation (revenues ~	average revenue;	products); Annual
	stage; Limited funding	expenses); Increasing	Revenue (over	revenues are declining;
	and revenue; Low assets	revenue; Revenue	\$1M); Profitable /	Decreasing revenue;
	/ Capital (less than 1	consistency (20% or	less risk averse; Self	Revenue decline;
	million USD); Haven't	greater); Profit potential;	sustaining in terms	Falling share price (if
	found recurring annual	Find recurring revenue	of revenue	publicly listed);
	revenue; No revenue;	(annual); Increasing in		Revenue decline; 25%
	Revenue (less than	revenue; Capitalization /		decrease in revenues;
	\$100K); Outside	Product that is delivered;		Valuation (decline
	funding; 25% to 50%	Revenue (\$100 - 250K);		valuation than
	revenue / user base	Relevant financial		previous one); Debt
	annually; Trying seed	models (not		
	capital	substantiated) maximum		
		operating capacity		
		versus expected returns;		
		Investment into		
		company; Positive		
		valuation; Capital		
		outsourcing; Series A		
		(already raised) venture		
		capital (5 to 10 M dollars		
		or 10 to 15 M dollars)		
Number of	Small size / Employees	Medium sized company /	No significant	Large team (500 plus)
Employees	(under 100); Size (less	Employees (over 100);	increase (gradual	that decreasing; PR
	than 20); Number of	Scale of customers and	increase in number	management in crisis /
	employees (12); Small	employees (30	of employees); Size	Negative economic
	size / Employees (1 -	employees); 5 to 20	(over 100	impact / 100 to 250
	100); Small team (3 to	employees; Size (20 - 50	employees); 20	employees; Laying off
	5); 1 to 4 founders; Less	employees); More	employees; Team	(downsizing)
	than 5 employees / Small	employees (2000);	(500 plus);	employees; Job cuts;
	management team; Team	Established team (5 to	Hierarchy (upper	Lay offs and no cost
	size (less than 10);	10); Employee count is	management) / Top	efficiencies; Stable
	Number of employees	100; Increased hiring; 30	down approach /	employee numbers (or

	(under 25 for start-up); Fluidity / Employees between 1 and 50 (at max); 10 or less people; Blurred accountabilities (everybody doing everything) / Employees 10 to 15	to 100 employees; Bigger management team; Increasing number of employees	around 100 to 500 employees; Not actively hiring new employees; Number of employees (250 plus); Large employee numbers; Employees in 1000s; More number of employees; 10,000 employees	negative); Negative hiring; Attrition; Attrition (employees); Attrition rate is higher
Products / Services	Non commercialized product; Uncertainty of target markets / Beta testing; Product development / Customers (paying); Product is not mature (hasn't reached the market); Product(s) offered are subject to substantial change (pivoting); Minimum viable product (MVP); Products/Services (less than 3)	Expanded scope of work (Multiple products); Product fully commercialized; Diverse product line; Products/Services (3 - 5); Level of product development / stability; Scaling up production	Mature products; No longer innovating a product or service; Products/Services (10); Product recognition / reputation - stable	Stale / Expired product set; Product no longer "cutting edge" (Market disappearing or being replaced); Products / Services becoming irrelevant; Year to year decrease in products/services; Reduce the scope of their product line (Losing customers, lack growth)
Growth	High growth rate; Intends to grow; Growth rate / Aggregate sales	Sales growth - Inflection point; High growth rate; Investment required to sustain substantial growth / 300% to 2000% annual growth potential; Nearly 50% growth or maybe more; 20 % revenue growth Y/Y; 25% monthly to 100% growth annually; Growth rate is greater than 10%	Consistent profitability (with a guesstimate of 5% to 30% annual growth); Looking for new opportunities / revenue growth 1 to 3 %; Revenue growth is low (less than 10% growth); Smaller growth rate / large aggregate sales; Low growth	Year to year decrease in size; Growth rate decline / stagnant; Less traction than projected; Negative growth rate

Organizational Structure	Flat hierarchy; Privately owned; Roles in organization are fluid or poorly defined (people often do more than one type of task, and tasks change); Informal organization structure / culture; Response time is	Devolution of management, hierarchy, but few levels (less than 5); Less flexible; Formalization of corporate structure - people have more specific job descriptions	rate; Stable year over year growth; No significant increase in revenue (~10% growth); Limited growth opportunities in primary markets (e.g. Microsoft entered games with XBox); Growth through acquisition; Growth through acquisition; "Easy marketing \$" / Budget / Awareness is high / 10% to 15% annual revenue growth; Growth rate 5 to 8 % "Bureaucracy" (high process / red tape); Bureaucracy; Thick walls; Group think / Bureaucratic / Defined roadmap / Less impulse; Departmentalized; Large enough to	Roles in organization become very rigid; Management heavy / Slow decisioning process; Politics / bureaucratic (more time justifying than doing
	owned; Roles in organization are fluid or poorly defined (people often do more than one type of task, and tasks change); Informal organization structure /	management, hierarchy, but few levels (less than 5); Less flexible; Formalization of corporate structure - people have more	marketing \$" / Budget / Awareness is high / 10% to 15% annual revenue growth; Growth rate 5 to 8 % "Bureaucracy" (high process / red tape); Bureaucracy; Thick walls; Group think / Bureaucratic / Defined roadmap / Less impulse; Departmentalized;	become very rigid; Management heavy / Slow decisioning process; Politics / bureaucratic (more time justifying than
	multifaceted (multiple roles)		Static organizational structure (treat employees as interchangeable parts)	
Processes	Lack of process; Small media presence	Service fee is higher; Scramble / to get organized / process / increased marketing & awareness (with target market); Maturity in systems / processes;	Solutions "less customizable" (standard); Mechanistic systems and processes (highly formal structures); Weak	Morale is low (everyone is upset / gossip); Unwilling to listen, losing touch and humility; Incremental versus disruptive innovation, loss of

Customers	None to few customers; Small but growing customer base	Formalized hiring (2 or more). Process formalized. Defined description Increasing customer base; User base size is growing; Paying customers	signal's analysis (networks); Goal driven Actively focused to avoid customer churn/turnover; Large customer base	creativity; Right for disruption; Actively involved in an exit strategy Customer support (declining); Active users; Customer base dropping; Maintaining existing customers vs attracting significant new business
Markets	Speed to market; Haven't fully defined market (have just a general sense of it); Billion dollar market size; New to market; Focused market	Market defined / Adequate funding; Billion dollar market size	Market leader; Floated publicly; From IPO to private equity; Publicly held (IP); Diverse in several market - more products; Expand into new markets, expand product line	Sun set market; Markets share is decreasing; Loss of market share for the product line; Shrinking primary market; Commoditized pricing (saturated); Inability to break into new markets; Increasing competition
Skills	Technical knowledge (lower); Entrepreneur driven; One technology; Technology focus	Technology focus	Leaders innovation (creating the market, defining innovation, be like the beaver)	Technologically falling behind; Technology is irrelevant
Sales	Low sales; Less than \$500K sales	Sales increasing; \$500K to \$3 million sales; Certain amount of sales and revenue - achieved (users) traction	High sales	Falling sales / revenue; Sales decreasing; Year to year decrease in sales; Declining aggregate sales

Appendix E

Repeated Measures Survey Design

WATERLOC

How Information And Communications Technology (ICT) Firms Create 'Value'

INFORMATION LETTER

Dear Participant.

This is an invitation to participate in a research study. As a full-time PhD student in the Department of Management Science, Faculty of Engineering at the University of Waterloo, I am currently conducting reseaunder the supervision of Professor Paul D. Guild toward an understanding of how ICT firms create value for their stakeholders.

Study Overview

The aim of this study is to gather estimates for different value creation attributes of ICT firms belonging to various development stages.

Your Involvement

If you agree to participate in this study, you will be asked to take part in an online survey. The survey includes questions about how ICT firms create value for their stakeholders at different organizational development stages. I would ask that any opinions expressed be your own. All of the data will be summarized and no individual will be identified from the summarized results.

This survey uses SurveyMonkey(TM) whose computer servers are located in the USA. Consequently, USA authorities under provisions of the Patriot Act may access this survey data.

This survey will take about 15 to 20 minutes.

All information you provide is confidential and will be disposed of in two years time. The data, with no personal identifiers, collected from this study will be maintained on a password-protected computer.

The survey website temporarily collects your computer IP address to avoid duplicate responses but will not collect information that could identify you (such as machine identifiers).

Your name or position will not appear in any thesis or publications resulting from this study.

Online Study Participation

If you wish to participate, please visit the study website by clicking **NEXT** below.

Contact Information

If you have any questions regarding this study, or would like additional information about participation, please contact me at 1-519-888-4567 ext. 33998 or by email mushah@uwaterloo.ca. You can also contact supervisor Professor Paul D. Guild by telephone at 1-519-888-4567 ext. 84808 or by email at guild@uwaterloo.ca.

This project has been reviewed and received ethics clearance through a University of Waterloo Research Ethics Committee. However, the final decision about participation is yours. Participants who have concerd or questions about their involvement in the project may contact the Chief Ethics Officer, Office of Research Ethics at 519-888-4567, Ext. 36005 or maureen.nummelin@uwaterloo.ca.

Thank you in advance for your interest and assistance with this research.

Umair Shah

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How Information And Communications Technology (ICT) Firms Create 'Value'

CONSENT FORM

By completing this consent form, you are not waiving your legal rights or releasing the investigator(s) or involved institution(s) from their legal and professional responsibilities.

With full knowledge of all foregoing, I agree, of my own free will, to partic	ipate in this study
○ Yes	
○ No	
	Prev Next

How Information And Communications Technology (ICT) Firms Create 'Value'

ELIGIBILITY CRITERIA

Are you physically located in the region of United States of America or Ca	anada?	
○ Yes		
○ No		
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How Information And Communications Technology (ICT) Firms Create 'Value'

ELIGIBILITY CRITERIA

Are you affiliated, either full-time or part-time, with a for-profit business of	organiza	tion?
○ Yes		
○ No		
	Prev	Next

How Information And Communications Technology (ICT) Firms Create 'Value'

ELIGIBILITY CRITERIA

Are you affiliated with an Information and Communications Technology (ICT) sector o

NOTE: ICT sector firms include, mobile, software, hardware, Internet, social interaction, and media related technology domains.

	Yes
0	No

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How Information And Communications Technology (ICT) Firms Create 'Value'

ELIGIBILITY CRITERIA

The firm you are affiliated with operates in the region of United States of America or Canada?		
O Yes		
O No		
Prev Next		

How Information And Communications Technology (ICT) Firms Create 'Value'

DEMOGRAPHIC INFORMATION

What are the ICT domains with which you are mainly focused on to	day? (Please check all of the relevant categories)
Mobile	Internet
Software	Social Interaction
Hardware	Media
Other (please specify)	
Which of the following options best describes your current role wit	hin the ICT sector? (Please check the one most relevant category)
○ Analyst	Software developer
Business manager	Director
Market developer / Marketing coordinator	Consultant
O Project manager	Policy adviser / Policy maker
○ Entrepreneur	Product developer
O Industrial researcher	Academic researcher
Technician / Technical adviser	CEO
Other (please specify)	
For how many years have you worked in the role indicated above? Number of Years	
How many years of total experience do you have in the ICT industron Number of Years What is your highest educational level achieved? (Please check the ICT industron)	
Less than high school	MBA or equivalent degree
High school	Masters degree or equivalent graduate degree
College diploma	Doctoral degree or equivalent graduate degree
Undergraduate degree	Not Applicable
Other (please specify)	
	Prev Next

How Information And Communications Technology (ICT) Firms Create 'Value'

DEMOGRAPHIC INFORMATION What is your education and training background? (Please check all of the relevant categories) Engineering Social sciences Mathematics Life sciences Computer sciences Business Physical sciences Not Applicable Arts / Humanities Other (please specify) Please indicate the answer that best describes your age. (Please check the one most relevant category) I am under 20 years of age I am between 46 and 55 years of age I am between 20 and 25 years of age I am between 56 and 65 years of age I am between 26 and 35 years of age I am over 66 years of age I am between 36 and 45 years of age I prefer not to answer What is your gender? Female ○ Male I prefer not to answer Which of the following descriptors characterizes the organizations for which you work within the ICT industry? (Please check the one most relevant category) Non-Profit organization O University / College Not Applicable For-profit organization Governmental organization Other (please specify) In which of the following jurisdictions does your organization operate? (Please check all of the relevant categories) Asia South America Africa Europe Middle East North America (Canada) North America (USA) Oceania-Australia North America (Mexico) Central America Other (please specify)

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How Information And Communications Technology (ICT) Firms Create 'Value'

In what year was your company founded? What are your company's annual net sales in dollars? What is the approximate number of full-time employees in your company? What is the approximate number of part-time employees in your company? How much is your company's annual net sales growth expressed as a percentage? (If you do not know the percenatge please answer not sure)

How Information And Communications Technology (ICT) Firms Create 'Value'

DEMOGRAPHIC INFORMATION

Which of the	following	g categori	zations be	est describ	e your c	ompany? (Please ch	eck the one most relevant category)
Mainly a se	ervice provide	er						
Mainly a m	anufacturing	enterprise						
Other (plea	ase specify)							
How many p	roducts o	r services	does you	ır compan	y offer?	(Please che	eck the on	e most relevant category)
Only 1 prod	duct or servi	ce						
O Between 2	and 5 produ	cts or servic	es					
O Between 6	and 10 prod	ucts or servi	ces					
O Between 1	1 and 15 pro	ducts or sen	vices					
O Between 1	6 and 20 pro	ducts or ser	vices					
Over 20 pro	oducts or se	rvices						
On a scale or services, ple product(s) or	ase indic	ate where	your firm					
Standardized Products or Services	2	3	4	5	6	Customized Products or Services	Not Applicable	
O	0	0	0	0	0	O		
							Prev	Next

How Information And Communications Technology (ICT) Firms Create 'Value'

DEFINITIONS OF ORGANIZATIONAL LIFE CYCLE (OLC) STAGES

NOTE: Please read the following definitions of the organizational life cycle stages and then answer the question below.

Start-Up Stage Firms

It is perceived that ICT organizations at this stage:

- · Raise limited funds or investments to run business operations with less than a million dollars capital
- . Employ a small team of up to 20 people, which in certain instances reaches a maximum size of 100 employees
- · Intend to flourish with growth
- · Adopt an informal organizational structure with multifaceted team roles
- · Offer minimum viable products or services
- . Generate low sales, have few paying customers, and possess limited technical skills
- Operate in newer markets and lack defined processes

Growth Stage Firms

It is perceived that ICT organizations at this stage:

- Raise enough funds to become independent to run business operations with 5 to 15 million dollar capital
- Employ a medium sized team of up to 100 people, which in certain instances reach a maximum size of 2000 employees
- . Intend to flourish with growth at a rate of over 10% to 300% annually
- · Adopt a formalized organizational structure with specific team roles
- Offer diversified lines of commercial products or services
- · Generate adequate sales, and possess increased paying customers
- Operate in high potential markets and promote formalized processes

Mature Stage Firms

It is perceived that ICT organizations at this stage:

- Produce stable but higher revenue flows to become self-sustaining in businesses operations
- Employ large sized teams of over 100 people, which in certain instances reach a size of 10,000 employees
- Intend to flourish with growth at a typical steady rate of less than 10% annually
- Adopt a bureaucratic organizational structure with outlined departmental roles
- · Offer well established lines of products or services
- · Generate high sales, and possess large customer base
- Often operate in publicly held markets and promote highly formal, goal driven processes

Which of the following descriptors best characterize your expertise in re	elation to ICT business enterprises?
Specialized knowledge of start-up stage business enterprise	
Specialized knowledge of growth stage business enterprise	
Specialized knowledge of mature stage business enterprise	
Not Applicable	
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How Information And Communications Technology (ICT) Firms Create 'Value'

DEFINITION OF BUSINESS STAKEHOLDERS

NOTE: Please read the following definition of business stakeholders and then answer the question below.

Business Stakeholders

Generally speaking, managers and entrepreneurs consider the interests of "those groups and individuals who can affect (or be affected by) their activities" as their legitimate stakeholders (Freeman, 1984; Donaldson & Preston, 1995).

The list of business stakeholders include:

- Employees
- Customers
- Financiers
- Suppliers
- Communities
- Environment
- Government
- Non-Governmental Organizations (NGOs)
- Trade Associations

In terms of the importance of stakeholders to your organization, please rate the following:

	Least Important	2	3	4	5	6	Most Important	Not Applicable
Government	\circ	\circ	\circ	\circ	\circ	\circ	\bigcirc	\circ
Employees								
Environment	0	\circ	0	0	\circ	0	0	0
Trade Associations								
Non-Governmental Organizations (NGOs)	0	0	0	0	0	0	0	0
Communities		\bigcirc						
Financiers	0	\circ	\circ	\circ	\circ	0	0	\circ
Customers								
Suppliers	0	0	0	0	0	0	0	

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How Information And Communications Technology (ICT) Firms Create 'Value'

UNDERSTANDING OF START-UP STAGE FIRMS

NOTE: Please read the following characteristics of start-up stage firms and then answer the questions below.

Start-Up Stage Firms

It is perceived that ICT organizations at this stage:

- Raise limited funds or investments to run business operations with less than a million dollars capital
- Employ a small team of up to 20 people, which in certain instances reaches a maximum size of 100 employees
- · Intend to flourish with growth
- · Adopt an informal organizational structure with multifaceted team roles
- · Offer minimum viable products or services
- Generate low sales, have few paying customers, and possess limited technical skills
- · Operate in newer markets and lack defined processes

What are your judgements about typical $\underline{start-up}$ stage firms in terms of their following characteristics?

	Not At All	2	3	4	5	6	A Great Deal	Not Applicable
Shorter Term Focus	0	0	0	\circ	\circ	0	0	0
Uni-Stakeholder Focus								
Focus on Practical Implications	0	\circ	\circ	\circ	\circ	0	\circ	0
Competitive Focus								
Focus on Capital for Firm	0	\circ	0	0	0	0	\circ	0
Focus on Firm Reputation								
Focus on Theoretical Implications	0	0	0	0	\circ	0	\circ	0
Focus on Employees / Human Resources								
Cooperative Focus	0	\circ	\circ	\circ	\circ	0	\circ	0
Focus on Firm Purpose								
Focus on Developing New Skills	0	0	0	\circ	\circ	0	\circ	0
Multi-Stakeholder Focus								
Focus on Firm Growth	0	0	\circ	0	0	0	\circ	0
Focus on Societal Benefits								
Longer Term Focus	0	0	0	0	0	0	0	\circ
Focus on Firm Revenues								
Focus on Applying Existing Skills	0	0	0	0	0	0	0	0
Focus on Environmental Concerns	0	0						
Focus on Firm Profits	0	0	0	0	0	0	0	0

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How Information And Communications Technology (ICT) Firms Create 'Value'

JNDERSTANDING OF GROWTH STAGE FIRMS

NOTE: Please read the following characteristics of growth stage firms and then answer the questions below.

Growth Stage Firms

It is perceived that ICT organizations at this stage:

- Raise enough funds to become independent to run business operations with 5 to 15 million dollar capital
- Employ a medium sized team of up to 100 people, which in certain instances reach a maximum size of 2000 employees
- Intend to flourish with growth at a rate of over 10% to 300% annually
- Adopt a formalized organizational structure with specific team roles
- Offer diversified lines of commercial products or services
- Generate adequate sales, and possess increased paying customers
- Operate in high potential markets and promote formalized processes

What are your judgements about typical growth stage firms in terms of their following characteristics?

	Not At All	2	3	4	5	6	A Great Deal	Not Applicable
Focus on Firm Profits	0	\circ	\circ	\circ	0	0	0	0
Focus on Firm Revenues								
Focus on Employees / Human Resources	0	\circ	0	0	\circ	0	0	\circ
Focus on Firm Growth								
Focus on Applying Existing Skills	0	\circ	0	\circ	\circ	0	\circ	\circ
Focus on Theoretical Implications								
Focus on Capital for Firm	0	\circ	0	0	\circ	0	0	0
Longer Term Focus								
Focus on Environmental Concerns	0	\circ	\circ	0	\circ	\circ	0	\circ
Cooperative Focus								
Competitive Focus	0	\circ	0	0	\circ	0	0	\circ
Focus on Practical Implications								
Shorter Term Focus	0	\circ	\circ	\circ	\circ	0	0	0
Focus on Societal Benefits								
Focus on Developing New Skills	0	\circ	\circ	\circ	0	0	0	\circ
Uni-Stakeholder Focus								
Focus on Firm Purpose	0	0	\circ	\circ	0	0	0	0
Focus on Firm Reputation		0						0
Multi-Stakeholder Focus	0	0	0	0	0	0	0	0

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How Information And Communications Technology (ICT) Firms Create 'Value'

UNDERSTANDING OF MATURE STAGE FIRMS

NOTE: Please read the following characteristics of mature stage firms and then answer the questions below.

Mature Stage Firms

It is perceived that ICT organizations at this stage:

- Produce stable but higher revenue flows to become self-sustaining in businesses operations
- Employ large sized teams of over 100 people, which in certain instances reach a size of 10,000 employees
- Intend to flourish with growth at a typical steady rate of less than 10% annually
- Adopt a bureaucratic organizational structure with outlined departmental roles
- · Offer well established lines of products or services
- · Generate high sales, and possess large customer base
- . Often operate in publicly held markets and promote highly formal, goal driven processes

What are your judgements about typical <u>mature</u> stage firms in terms of their following characteristics?

Characteristics:								
	Not At All	2	3	4	5	6	A Great Deal	Not Applicable
Focus on Capital for Firm	0	0	\bigcirc	\circ	\circ	0	0	0
Uni-Stakeholder Focus								
Focus on Firm Revenues	\circ	0	\circ	\circ	\circ	0	0	\circ
Focus on Societal Benefits								
Focus on Firm Profits	\circ	0	\circ	\circ	\circ	0	0	0
Multi-Stakeholder Focus								
Competitive Focus	\circ	0	\circ	0	\circ	0	0	\circ
Focus on Applying Existing Skills								
Focus on Developing New Skills	\circ	0	0	0	0	0	0	\circ
Focus on Practical Implications								
Focus on Theoretical Implications	\circ	0	\circ	\circ	0	0	0	\circ
Focus on Employees / Human Resources								
Focus on Firm Growth	\circ	0	\circ	\circ	\circ	0	0	0
Shorter Term Focus								
Cooperative Focus	\circ	0	\circ	\circ	\circ	0	0	0
Longer Term Focus								
Focus on Firm Purpose	0	0	0	\circ	0	0	0	0
Focus on Environmental Concerns								
Focus on Firm Reputation	0	0	\bigcirc	0	\bigcirc	0	0	0

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How Information And Communications Technology (ICT) Firms Create 'Value'

UNDERSTANDING OF BUSINESS-STAKEHOLDER ENGAGEMENT MODELS

When thinking about business-stakeholder engagement models, how could each of these be described as <u>newer</u> versus <u>older</u> paradigms?

	Older						Newer	Don't
	Paradigm	2	3	4	5	6	Paradigm	Know
Creating Value For All Stakeholders	\circ	\circ	\circ	\circ	\bigcirc	\circ	\bigcirc	\circ
Creating Shared Value								
Corporate Social Responsibility	0	0	0	0	0	0	0	0



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How Information And Communications Technology (ICT) Firms Create 'Value'

FEEDBACK LETTER

Dear Participant,

I would like to thank you for your participation in this study. As a reminder, the purpose of this study is to investigate the application of various business models among ICT firms at different development stages.

The data collected through surveys will contribute to a better understanding of firms at different development stages creating 'value' for their stakeholders.

Please remember that any data pertaining to you as an individual participant will be kept confidential. Once all the data are collected and analyzed for this project, I plan on sharing this information with the research community through seminars, conferences, presentations, and journal articles. If you are interested in receiving more information regarding the results of this study, or if you have any questions or concerns, please contact me at either the phone number or email address listed at the bottom of the page.

I have also shared my faculty supervisor's name and contact information as an alternative person to contact if there are questions about the study results at the bottom of the page.

This project has been reviewed and received ethics clearance through a University of Waterloo Research Ethics Committee. However, the final decision about participation is yours.

Muhammad Umair Shah PhD Candidate Department of Management Sciences University of Waterloo 1-519-888-4567 ext. 33998 mushah@uwaterloo.ca

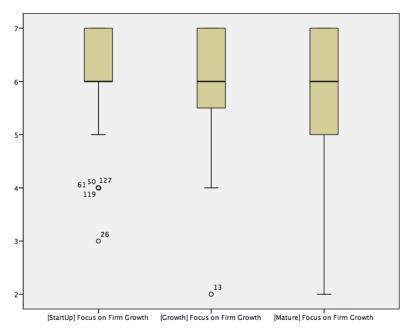
Dr. Paul D. Guild Faculty Supervisor Department of Management Sciences University of Waterloo 1-519-888-4567 ext. 84802 guild@uwaterloo.ca

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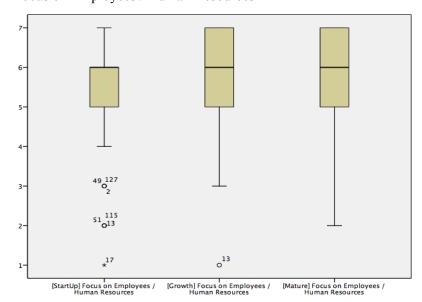
Appendix F

Determining Value-Creating Constructs Data Outliers

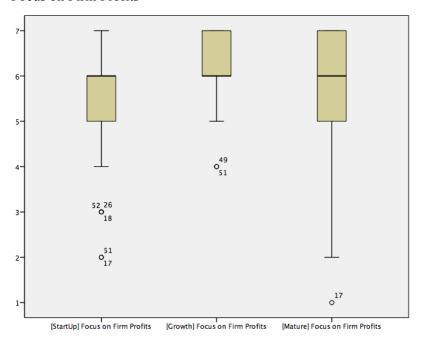
Focus on Firm Growth



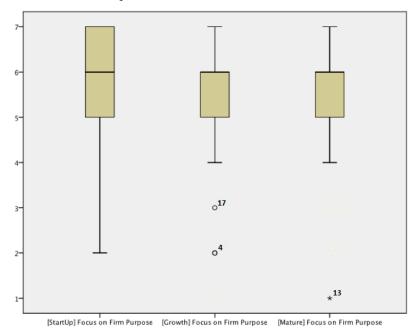
Focus on Employees / Human Resources



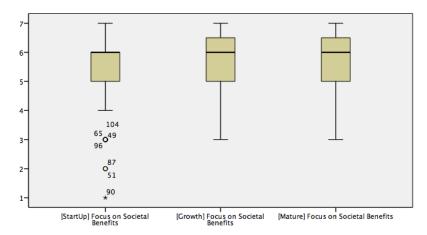
Focus on Firm Profits



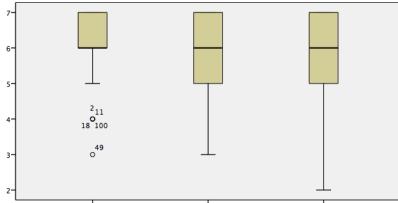
Focus on Firm Purpose



Focus on Societal Benefits

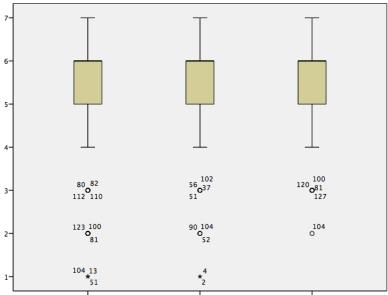


Focus on Capital for Firm



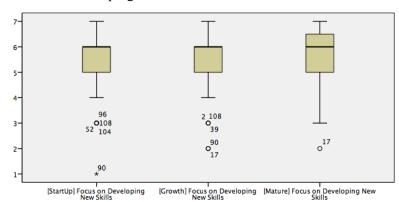
[StartUp] Focus on Capital for Firm [Growth] Focus on Capital for Firm [Mature] Focus on Capital for Firm

Focus on Environmental Concerns



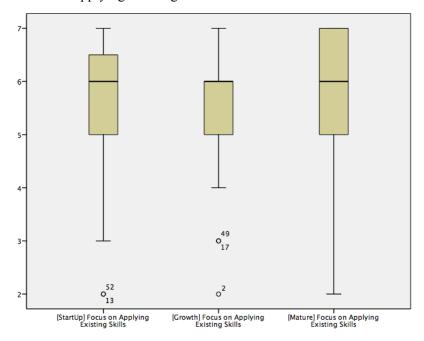
[StartUp] Focus on Environmental [Growth] Focus on Environmental [Mature] Focus on Environmental Concerns

Focus on Developing New Skills

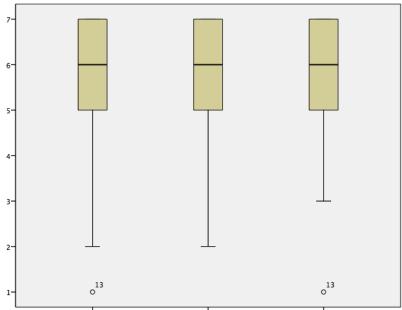


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Focus on Applying Existing Skills

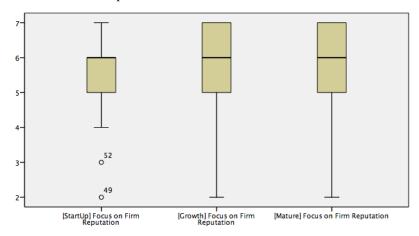


Focus on Firm Revenues

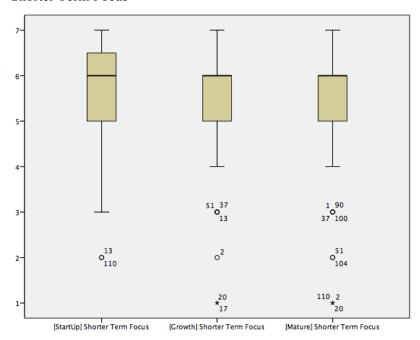


[StartUp] Focus on Firm Revenues [Growth] Focus on Firm Revenues [Mature] Focus on Firm Revenues

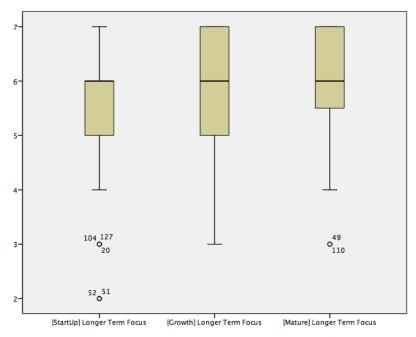
Focus on Firm Reputation



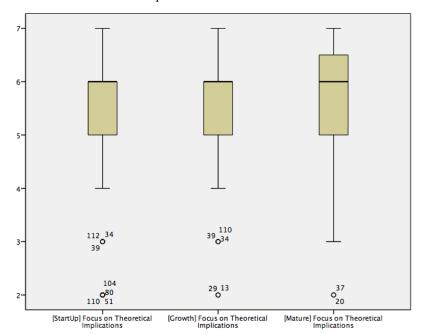
Shorter Term Focus



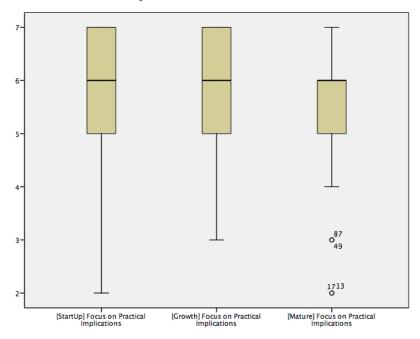
Longer Term Focus



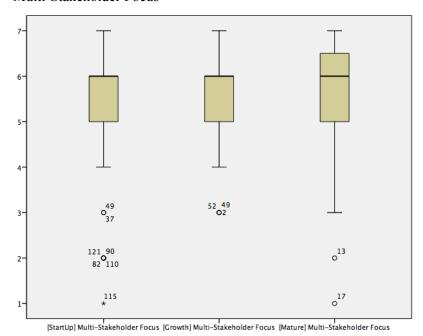
Focus on Theoretical Implications



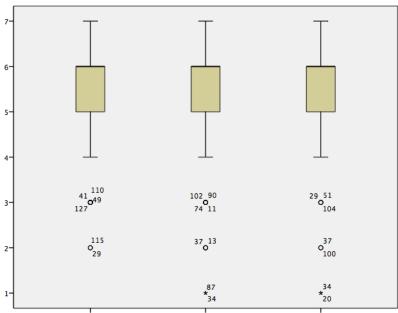
Focus on Practical Implications



Multi-Stakeholder Focus

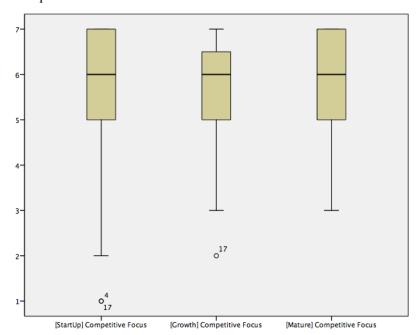


Uni-Stakeholder Focus

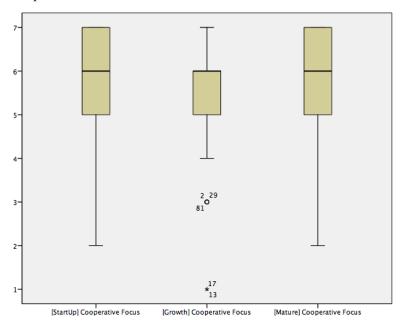


[StartUp] Uni-Stakeholder Focus [Growth] Uni-Stakeholder Focus [Mature] Uni-Stakeholder Focus

Competitive Focus



Cooperative Focus



Extreme Outliers

We graphically checked the box-plots for any extreme outliers for value-creating construct data points. These data points are identified by 'asterisk' (*) beside them in the graphs mentioned above.

Comparison Of Results – Before And After Transformation Of The Data Set By Removing The Extreme Outliers

Focus of Employees / Human Resources (Before)

Tests of Within-Subjects Effects

Measure: Employees / HR

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	3.879	2	1.939	2.373	.095	.018	.477
	Greenhouse-Geisser	3.879	1.915	2.025	2.373	.098	.018	.466
	Huynh-Feldt	3.879	1.943	1.996	2.373	.097	.018	.470
	Lower-bound	3.879	1.000	3.879	2.373	.126	.018	.334
Error (OLC	Sphericity Assumed	214.121	262	.817				
Stages)	Greenhouse-Geisser	214.121	250.929	.853				
	Huynh-Feldt	214.121	254.567	.841				
	Lower-bound	214.121	131.000	1.635				

Focus of Employees / Human Resources (After)

Tests of Within-Subjects Effects

Measure: Employees / HR

		Type III Sum of		Mean			Partial Eta	Observed
Source		Squares	df	Square	F	Sig.	Squared	Power
OLC Stages	Sphericity Assumed	3.562	2	1.781	2.366	.096	.018	.476
	Greenhouse-Geisser	3.562	1.915	1.860	2.366	.098	.018	.465
	Huynh-Feldt	3.562	1.943	1.833	2.366	.098	.018	.469
	Lower-bound	3.562	1.000	3.562	2.366	.126	.018	.333
Error (OLC	Sphericity Assumed	195.771	260	.753				
Stages)	Greenhouse-Geisser	195.771	248.951	.786				
	Huynh-Feldt	195.771	252.587	.775				
	Lower-bound	195.771	130.000	1.506				

Focus on Firm Purpose (Before) 36

Tests of Within-Subjects Effects

Measure: Firm Purpose

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	1.854	2	.927	1.213	.299	.009	.264
	Greenhouse-Geisser	1.854	1.909	.971	1.213	.298	.009	.258
	Huynh-Feldt	1.854	1.936	.957	1.213	.298	.009	.260
	Lower-bound	1.854	1.000	1.854	1.213	.273	.009	.194
Error (OLC	Sphericity Assumed	200.146	262	.764				
Stages)	Greenhouse-Geisser	200.146	250.062	.800				
	Huynh-Feldt	200.146	253.668	.789				
	Lower-bound	200.146	131.000	1.528				

Focus on Firm Purpose (After) 37

Tests of Within-Subjects Effects

Measure: Firm Purpose

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	2.885	2	1.443	2.056	.130	.016	.421
-	Greenhouse-Geisser	2.885	1.865	1.547	2.056	.134	.016	.406
	Huynh-Feldt	2.885	1.891	1.526	2.056	.133	.016	.409
	Lower-bound	2.885	1.000	2.885	2.056	.154	.016	.296
Error (OLC	Sphericity Assumed	182.448	260	.702				
Stages)	Greenhouse-Geisser	182.448	242.440	.753				
	Huynh-Feldt	182.448	245.831	.742				
	Lower-bound	182.448	130.000	1.403				

A clearly non-significant alpha level (p > 0.25) is satisfied for OLC stages on dependent variable, 'Focus on Firm Purpose' before removing the outliers.

We acknowledge that 'Focus on Firm Purpose' did not achieve clearly non-significant alpha level (p < 0.25) in terms of OLC stages after removing the outliers.

Focus on Societal Benefits (Before)

Tests of Within-Subjects Effects

Measure: Societal Benefits

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	4.884	2	2.442	3.559	.030	.026	.658
	Greenhouse-Geisser	4.884	1.994	2.449	3.559	.030	.026	.657
	Huynh-Feldt	4.884	2.000	2.442	3.559	.030	.026	.658
	Lower-bound	4.884	1.000	4.884	3.559	.061	.026	.465
Error (OLC	Sphericity Assumed	179.783	262	.686				
Stages)	Greenhouse-Geisser	179.783	261.233	.688				
	Huynh-Feldt	179.783	262.000	.686				
	Lower-bound	179.783	131.000	1.372				

Focus on Societal Benefits (After)

Tests of Within-Subjects Effects

Measure: Societal Benefits

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	4.321	2	2.160	3.161	.044	.024	.603
	Greenhouse-Geisser	4.321	1.996	2.165	3.161	.044	.024	.602
	Huynh-Feldt	4.321	2.000	2.160	3.161	.044	.024	.603
	Lower-bound	4.321	1.000	4.321	3.161	.078	.024	.423
Error (OLC	Sphericity Assumed	177.679	260	.683				
Stages)	Greenhouse-Geisser	177.679	259.494	.685				
	Huynh-Feldt	177.679	260.000	.683				
	Lower-bound	177.679	130.000	1.367				

Focus on Environmental Concerns (Before) 38

Tests of Within-Subjects Effects

Measure: Environmental Concerns

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	4.005	2	2.003	1.938	.146	.015	.400
	Greenhouse-Geisser	4.005	1.909	2.098	1.938	.148	.015	.390
	Huynh-Feldt	4.005	1.937	2.068	1.938	.147	.015	.393
	Lower-bound	4.005	1.000	4.005	1.938	.166	.015	.282
Error (OLC	Sphericity Assumed	270.662	262	1.033				
Stages)	Greenhouse-Geisser	270.662	250.105	1.082				
	Huynh-Feldt	270.662	253.711	1.067				
	Lower-bound	270.662	131.000	2.066				

Focus on Environmental Concerns (After)³⁹

Tests of Within-Subjects Effects

Measure: Environmental Concerns

		Type III Sum		Mean			Partial Eta	Observed
Source		of Squares	df	Square	F	Sig.	Squared	Power
OLC Stages	Sphericity Assumed	1.486	2	.743	.892	.411	.007	.203
	Greenhouse-Geisser	1.486	1.887	.787	.892	.406	.007	.198
	Huynh-Feldt	1.486	1.915	.776	.892	.407	.007	.199
	Lower-bound	1.486	1.000	1.486	.892	.347	.007	.155
Error (OLC	Sphericity Assumed	209.848	252	.833				
Stages)	Greenhouse-Geisser	209.848	237.825	.882				
	Huynh-Feldt	209.848	241.327	.870				
	Lower-bound	209.848	126.000	1.665				

A clearly non-significant alpha level (p > 0.25) is not achieved for OLC stages on dependent variable, 'Focus on Environmental Concerns' before removing the outliers.

We acknowledge that 'Focus on Environmental Concerns' satisfy the clearly non-significant alpha level (p > 0.25) in terms of OLC stages after removing the outliers.

Developing New Skills (Before)

Measure: Developing New Skills

Tests of Within-Subjects Effects

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	.641	2	.321	.465	.629	.004	.126
	Greenhouse-Geisser	.641	1.841	.348	.465	.613	.004	.122
	Huynh-Feldt	.641	1.866	.344	.465	.615	.004	.123
	Lower-bound	.641	1.000	.641	.465	.496	.004	.104
Error (OLC	Sphericity Assumed	180.692	262	.690				
Stages)	Greenhouse-Geisser	180.692	241.179	.749				
	Huynh-Feldt	180.692	244.455	.739				
	Lower-bound	180.692	131.000	1.379				

Developing New Skills (After)

Tests of Within-Subjects Effects

Measure: Developing New Skills

		Type III Sum		Mean			Partial Eta	Observed
Source		of Squares	df	Square	F	Sig.	Squared	Power
OLC Stages	Sphericity Assumed	.427	2	.214	.323	.725	.002	.101
	Greenhouse-Geisser	.427	1.871	.228	.323	.710	.002	.100
	Huynh-Feldt	.427	1.898	.225	.323	.713	.002	.100
	Lower-bound	.427	1.000	.427	.323	.571	.002	.087
Error (OLC	Sphericity Assumed	172.239	260	.662				
Stages)	Greenhouse-Geisser	172.239	243.279	.708				
	Huynh-Feldt	172.239	246.702	.698				
	Lower-bound	172.239	130.000	1.325				

Shorter Term Focus (Before)

Tests of Within-Subjects Effects

Measure: Shorter Term

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	2.202	2	1.101	1.170	.312	.009	.256
	Greenhouse-Geisser	2.202	1.897	1.161	1.170	.310	.009	.249
	Huynh-Feldt	2.202	1.925	1.144	1.170	.311	.009	.251
	Lower-bound	2.202	1.000	2.202	1.170	.281	.009	.189
Error (OLC	Sphericity Assumed	246.465	262	.941				
Stages)	Greenhouse-Geisser	246.465	248.563	.992				
	Huynh-Feldt	246.465	252.112	.978				
	Lower-bound	246.465	131.000	1.881				

Shorter Term Focus (After)

Tests of Within-Subjects Effects

Measure: Shorter Term

vieasure. Snort	er reini					_		
		Type III Sum		Mean			Partial Eta	Observed
Source		of Squares	df	Square	F	Sig.	Squared	Power
OLC Stages	Sphericity Assumed	1.193	2	.596	.791	.454	.006	.184
	Greenhouse-Geisser	1.193	1.892	.630	.791	.448	.006	.180
	Huynh-Feldt	1.193	1.919	.621	.791	.450	.006	.181
	Lower-bound	1.193	1.000	1.193	.791	.375	.006	.143
Error (OLC	Sphericity Assumed	191.474	254	.754				
Stages)	Greenhouse-Geisser	191.474	240.253	.797				
	Huynh-Feldt	191.474	243.776	.785				
	Lower-bound	191 474	127.000	1.508				

Multi-Stakeholder Focus (Before) 40

Tests of Within-Subjects Effects

Measure: Multi-Stakeholder

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	3.551	2	1.775	1.842	.160	.014	.382
	Greenhouse-Geisser	3.551	1.938	1.832	1.842	.162	.014	.376
	Huynh-Feldt	3.551	1.967	1.805	1.842	.161	.014	.379
	Lower-bound	3.551	1.000	3.551	1.842	.177	.014	.271
Error (OLC	Sphericity Assumed	252.449	262	.964				
Stages)	Greenhouse-Geisser	252.449	253.869	.994				
	Huynh-Feldt	252.449	257.618	.980				
	Lower-bound	252.449	131.000	1.927				

Multi-Stakeholder Focus (After)⁴¹

Tests of Within-Subjects Effects

Measure: Multi-Stakeholder

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	2.580	2	1.290	1.382	.253	.011	.296
	Greenhouse-Geisser	2.580	1.957	1.318	1.382	.253	.011	.293
	Huynh-Feldt	2.580	1.987	1.299	1.382	.253	.011	.295
	Lower-bound	2.580	1.000	2.580	1.382	.242	.011	.215
Error (OLC	Sphericity Assumed	242.753	260	.934				
Stages)	Greenhouse-Geisser	242.753	254.423	.954				
	Huynh-Feldt	242.753	258.269	.940				
	Lower-bound	242.753	130.000	1.867				

⁴⁰ A clearly non-significant alpha level (p > 0.25) is not achieved for OLC stages on dependent variable, 'Multi-Stakeholder Focus' before removing the outliers.
41 We acknowledge that 'Multi-Stakeholder Focus' satisfy the clearly non-significant alpha level (p > 0.25) in terms of OLC stages after removing the outliers.

Uni-Stakeholder Focus (Before)

Tests of Within-Subjects Effects

Measure: Uni-Stakeholder

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	.409	2	.205	.246	.782	.002	.089
	Greenhouse-Geisser	.409	1.952	.210	.246	.776	.002	.088
	Huynh-Feldt	.409	1.981	.207	.246	.780	.002	.088
	Lower-bound	.409	1.000	.409	.246	.621	.002	.078
Error (OLC	Sphericity Assumed	217.591	262	.830				
Stages)	Greenhouse-Geisser	217.591	255.648	.851				
	Huynh-Feldt	217.591	259.465	.839				
	Lower-bound	217.591	131.000	1.661				

Uni-Stakeholder Focus (After)

Tests of Within-Subjects Effects

Measure: Uni-Stakeholder

Measure: Uni-S	Stakeholder							
Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Observed Power
OLC Stages	Sphericity Assumed	.000	2	.000	.000	1.000	.000	.050
	Greenhouse-Geisser	.000	1.966	.000	.000	1.000	.000	.050
	Huynh-Feldt	.000	1.997	.000	.000	1.000	.000	.050
	Lower-bound	.000	1.000	.000	.000	1.000	.000	.050
Error (OLC	Sphericity Assumed	190.667	256	.745				
Stages)	Greenhouse-Geisser	190.667	251.704	.758				
	Huynh-Feldt	190.667	255.597	.746				
	Lower-bound	190.667	128.000	1.490				

Cooperative Focus (Before)

Measure: Cooperative Focus

Tests of Within-Subjects Effects

	·	Type III Sum		Mean			Partial Eta	Observed
Source		of Squares	df	Square	F	Sig.	Squared	Power
OLC Stages	Sphericity Assumed	6.399	2	3.199	5.002	.007	.037	.811
	Greenhouse-Geisser	6.399	1.948	3.286	5.002	.008	.037	.803
	Huynh-Feldt	6.399	1.977	3.237	5.002	.008	.037	.807
	Lower-bound	6.399	1.000	6.399	5.002	.027	.037	.603
Error (OLC	Sphericity Assumed	167.601	262	.640				
Stages)	Greenhouse-Geisser	167.601	255.128	.657				
	Huynh-Feldt	167.601	258.925	.647				
	Lower-bound	167.601	131.000	1.279		ľ		

Cooperative Focus (After)

Tests of Within-Subjects Effects

Measure: Cooperative Focus

		Type III Sum		Mean			Partial Eta	Observed
Source		of Squares	df	Square	F	Sig.	Squared	Power
OLC Stages	Sphericity Assumed	4.615	2	2.308	4.003	.019	.030	.713
	Greenhouse-Geisser	4.615	1.912	2.414	4.003	.021	.030	.698
	Huynh-Feldt	4.615	1.940	2.379	4.003	.020	.030	.703
	Lower-bound	4.615	1.000	4.615	4.003	.048	.030	.510
Error (OLC	Sphericity Assumed	148.718	258	.576				
Stages)	Greenhouse-Geisser	148.718	246.639	.603				
	Huynh-Feldt	148.718	250.260	.594				
	Lower-bound	148.718	129.000	1.153				

Appendix G

Determining Value-Creating Constructs Data Normality

	Tests of Norr						
		Kolmogoi	ov-Sm	irnovª	Shapi	ro-Wi	lk
	Conditions	Statistic	df	Sig.	Statistic	df	Sig.
Focus on Firm Growth	Start-up	.242	132	.000	.835	132	.000
	Growth	.256	132	.000	.834	132	.000
	Mature	.208	132	.000	.838	132	.000
Focus on Employees / Human Resources	Start-up	.271	132	.000	.827	132	.000
r .y	Growth	.231	132	.000	.852	132	.000
	Mature	.228	132	.000	.855	132	.000
Focus on Firm Profits	Start-up	.260	132	.000	.861	132	.000
	Growth	.253	132	.000	.832	132	.000
	Mature	.255	132	.000	.807	132	.000
Focus on Firm Purpose	Start-up	.258	132	.000	.811	132	.000
1	Growth	.253	132	.000	.865	132	.000
	Mature	.306	132	.000	.789	132	.000
Focus on Societal Benefits	Start-up	.194	132	.000	.881	132	.000
	Growth	.241	132	.000	.875	132	.000
	Mature	.229	132	.000	.876	132	.000
Focus on Capital for Firm	Start-up	.254	132	.000	.839	132	.000
	Growth	.260	132	.000	.842	132	.000
	Mature	.272	132	.000	.830	132	.000
Focus on Environmental Concerns	Start-up	.257	132	.000	.850	132	.000
	Growth	.248	132	.000	.873	132	.000
	Mature	.222	132	.000	.885	132	.000
Focus on Developing New Skills	Start-up	.277	132	.000	.823	132	.000
1 0	Growth	.268	132	.000	.835	132	.000
	Mature	.277	132	.000	.847	132	.000
Focus on Applying Existing Skills	Start-up	.294	132	.000	.821	132	.000
II) S	Growth	.247	132	.000	.851	132	.000
	Mature	.259	132	.000	.822	132	.000
Focus on Firm Revenues	Start-up	.282	132	.000	.812	132	.000
	Growth	.226	132	.000	.827	132	.000
	Mature	.263	132	.000	.813	132	.000
Focus on Firm Reputation	Start-up	.241	132	.000	.869	132	.000
	Growth	.235	132	.000	.851	132	.000
	Mature	.256	132	.000	.820	132	.000
Shorter Term Focus	Start-up	.246	132	.000	.854	132	.000
	Growth	.269	132	.000	.826	132	.000
	Mature	.274	132	.000	.824	132	.000
Longer Term Focus	Start-up	.216	132	.000	.866	132	.000
	Growth	.265	132	.000	.854	132	.000
<u></u>	Mature	.250	132	.000	.840	132	.000
Focus on Theoretical Implications	Start-up	.285	132	.000	.822	132	.000
	Growth	.221	132	.000	.888	132	.000
	Mature	.224	132	.000	.879	132	.000
Focus on Practical Implications	Start-up	.261	132	.000	.827	132	.000
	Growth	.218	132	.000	.864	132	.000
	Mature	.243	132	.000	.845	132	.000
Multi-Stakeholder Focus	Start-up	.283	132	.000	.819	132	.000
	Growth	.235	132	.000	.875	132	.000
	Mature	.215	132	.000	.847	132	.000
Uni-Stakeholder Focus	Start-up	.234	132	.000	.881	132	.000
	Growth	.257	132	.000	.856	132	.000
	Mature	.227	132	.000	.820	132	.000
Competitive Focus	Start-up	.266	132	.000	.814	132	.000
	Growth	.274	132	.000	.856	132	.000
<u></u>	Mature	.245	132	.000	.860	132	.000
Cooperative Focus	Start-up	.249	132	.000	.851	132	.000
	Growth	.236	132	.000	.828	132	.000
	Mature	.242	132	.000	.837	132	.000
		.212	.,,,	.000	.057	.,,,	.000

a. Lilliefors Significance Correction

Appendix H

Comparison With Equal Sample Sizes In Each Self Reported OLC Group

Tests of Between-Subjects Effects

Transformed Variable: Average

Source	Measure	Type III Sum of Squares	df	Mean Square	F	Sig.
Self Reported OLC Stages	Focus on Firm Growth	4.222	2	2.111	1.390	.255
	Focus on Employees / HR	.151	2	.075	.035	.965
	Focus on Firm Profits	.579	2	.290	.187	.830
	Focus on Firm Purpose	2.198	2	1.099	.763	.470
	Focus on Societal Benefits	.627	2	.313	.124	.884
	Focus on Capital for Firm	.500	2	.250	.175	.840
	Focus on Environmental Concerns	2.000	2	1.000	.360	.699
	Focus on Developing New Skills	5.167	2	2.583	1.393	.254
	Focus on Applying Existing Skills	2.167	2	1.083	.870	.423
	Focus on Firm Revenues	1.167	2	.583	.256	.774
	Focus on Firm Reputation	1.437	2	.718	.435	.649
	Shorter Term Focus	2.310	2	1.155	.467	.629
	Longer Term Focus	4.389	2	2.194	1.483	.233
	Focus on Theoretical Implications	4.817	2	2.409	.926	.400
	Focus on Practical Implications	.889	2	.444	.237	.790
	Multi-Stakeholder Focus	.500	2	.250	.124	.883
	Uni-Stakeholder Focus	2.722	2	1.361	.460	.633
	Competitive Focus	3.167	2	1.583	.749	.476
	Cooperative Focus	12.929	2	6.464	3.014	.055

Appendix I

Scale Reliability Analysis

I.1: Reliability Analyses For Start-Up Stage 'Jointness of Interest' Construct

Case Processing Summary

		N	%
Cases	Valid	132	100.0
	Excluded ^a	0	.0
	Total	132	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

	Cronbach's Alpha		٦
	Based on		
Cronbach's Alpha	Standardized Items	N of Items	
.826	.826	6	

Item Statistics

	Mean	Std. Deviation	N
[Start-up] Focus on Societal Benefits	5.4848	1.21997	132
[Start-up] Focus on Environmental Concerns	5.3030	1.54791	132
[Start-up] Longer Term Focus	5.6439	1.11979	132
[Start-up] Multi-Stakeholder Focus	5.5227	1.34486	132
[Start-up] Focus on Employees / Human Resources	5.6288	1.14188	132
[Start-up] Focus on Firm Reputation	5.7803	.97538	132

Inter-Item Correlation Matrix

	[Start-up] Focus on Societal Benefits	[Start-up] Focus on Environmental Concerns	[Start-up] Longer Term Focus	[Start-up] Multi- Stakeholder Focus	[Start-up] Focus on Employees / Human Resources	[Start-up] Focus on Firm Reputation
[Start-up] Focus on Societal Benefits	1.000	.585	.524	.398	.388	.411
[Start-up] Focus on Environmental Concerns	.585	1.000	.499	.587	.539	.419
[Start-up] Longer Term Focus	.524	.499	1.000	.378	.379	.354
[Start-up] Multi- Stakeholder Focus	.398	.587	.378	1.000	.470	.280
[Start-up] Focus on Employees / Human Resources	.388	.539	.379	.470	1.000	.427
[Start-up] Focus on Firm Reputation	.411	.419	.354	.280	.427	1.000

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
[Start-up] Focus on Societal Benefits	27.8788	21.069	.625	.433	.792
[Start-up] Focus on Environmental Concerns	28.0606	17.615	.735	.553	.767
[Start-up] Longer Term Focus	27.7197	22.264	.572	.351	.804
[Start-up] Multi-Stakeholder Focus	27.8409	20.684	.578	.385	.803
[Start-up] Focus on Employees / Human Resources	27.7348	21.906	.594	.377	.799
[Start-up] Focus on Firm Reputation	27.5833	23.909	.493	.272	.819

Scale Statistics

Mean	Variance	Std. Deviation	N of Items
33.3636	29.561	5.43704	6

I.2: Reliability Analyses For Growth Stage 'Jointness of Interest' Construct

Case Processing Summary

		N	%
Cases	Valid	13	2 100.0
	Excludeda		0.
	Total	13	2 100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

Tempiney Statistics				
	Cronbach's Alpha			
	Based on			
Cronbach's Alpha	Standardized Items	N of Items		
.767	.764	6		

Item Statistics

	Mean	Std. Deviation	N
[Growth] Focus on Employees / Human Resources	5.7500	1.13497	132
[Growth] Focus on Societal Benefits	5.6894	1.09218	132
[Growth] Focus on Environmental Concerns	5.3864	1.31142	132
[Growth] Focus on Firm Reputation	5.8788	1.04867	132
[Growth] Longer Term Focus	5.8939	.93497	132
[Growth] Multi-Stakeholder Focus	5.7273	.94175	132

Inter-Item Correlation Matrix

	[Growth] Focus on Employees / Human Resources	[Growth] Focus on Societal Benefits	[Growth] Focus on Environmental Concerns	[Growth] Focus on Firm Reputation	[Growth] Longer Term Focus	[Growth] Multi- Stakeholder Focus
[Growth] Focus on Employees / Human Resources	1.000	.516	.486	.192	.349	.336
[Growth] Focus on Societal Benefits	.516	1.000	.559	.353	.311	.318
[Growth] Focus on Environmental Concerns	.486	.559	1.000	.317	.339	.339
[Growth] Focus on Firm Reputation	.192	.353	.317	1.000	.197	.337
[Growth] Longer Term Focus	.349	.311	.339	.197	1.000	.314
[Growth] Multi- Stakeholder Focus	.336	.318	.339	.337	.314	1.000

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
[Growth] Focus on Employees / Human Resources	28.5758	13.620	.554	.361	.720
[Growth] Focus on Societal Benefits	28.6364	13.378	.623	.424	.702
[Growth] Focus on Environmental Concerns	28.9394	12.241	.609	.400	.705
[Growth] Focus on Firm Reputation	28.4470	15.257	.390	.196	.762
[Growth] Longer Term Focus	28.4318	15.530	.427	.193	.752
[Growth] Multi-Stakeholder Focus	28.5985	15.235	.466	.232	.743

Scale Statistics

Mean	Variance	Std. Deviation	N of Items
34.3258	19.550	4.42149	6

I.3: Reliability Analyses For Mature Stage 'Jointness of Interest' Construct

Case Processing Summary

		N	%
Cases	Valid	132	100.0
	Excluded ^a	0	.0
	Total	132	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

renability Statistics				
	Cronbach's Alpha			
	Based on			
Cronbach's Alpha	Standardized Items	N of Items		
.724	.726	6		

Item Statistics

Tem Statistics			
	Mean	Std. Deviation	N
[Mature] Focus on Employees / Human Resources	5.8712	.95234	132
[Mature] Focus on Societal Benefits	5.7424	1.01606	132
[Mature] Focus on Environmental Concerns	5.5455	1.09380	132
[Mature] Focus on Firm Reputation	5.9697	.91584	132
[Mature] Longer Term Focus	6.0000	.89953	132
[Mature] Multi-Stakeholder Focus	5.7197	1.08645	132

Inter-Item Correlation Matrix

	[Mature] Focus on Employees / Human Resources	[Mature] Focus on Societal Benefits	[Mature] Focus on Environmental Concerns	[Mature] Focus on Firm Reputation	[Mature] Longer Term Focus	[Mature] Multi- Stakeholder Focus
[Mature] Focus on Employees / Human Resources	1.000	.242	.390	.424	.258	.216
[Mature] Focus on Societal Benefits	.242	1.000	.450	.246	.084	.321
[Mature] Focus on Environmental Concerns	.390	.450	1.000	.321	.217	.290
[Mature] Focus on Firm Reputation	.424	.246	.321	1.000	.482	.314
[Mature] Longer Term Focus	.258	.084	.217	.482	1.000	.336
[Mature] Multi- Stakeholder Focus	.216	.321	.290	.314	.336	1.000

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
[Mature] Focus on Employees / Human Resources	28.9773	11.213	.456	.256	.686
[Mature] Focus on Societal Benefits	29.1061	11.210	.410	.259	.700
[Mature] Focus on Environmental Concerns	29.3030	10.259	.510	.310	.669
[Mature] Focus on Firm Reputation	28.8788	10.932	.538	.358	.664
[Mature] Longer Term Focus	28.8485	11.748	.401	.284	.702
[Mature] Multi-Stakeholder Focus	29.1288	10.724	.439	.218	.692

Scale Statistics

Mean	Variance	Std. Deviation	N of Items
34.8485	15.030	3.87689	6

Appendix J

Factor Analysis For Common Method Bias

We conducted factor analysis of only the construct items used in our study. The descriptive section questions were not included in the analyses.

Communalities

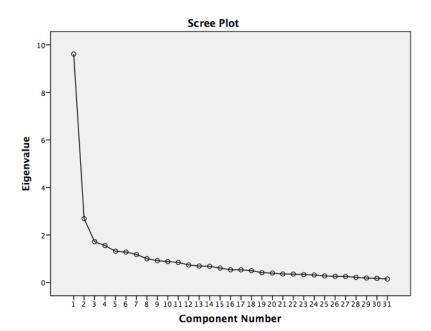
Initial	Extraction
	.239
	.239
	.314
	.467
	.506
	.206
	.582
	.362
	.237
	.240
	.240
	.168
	.303
	.459
	.247
	.460
	.400
	.245
	.429
	.155
	.091
	.235
	.305
	.450
	.302
	.392
	.383
	.365
	.113
	.113
	.224
	Initial 1.000

Extraction Method: Principal Component Analysis.

Total Variance Explained

		Initial Eigenv	alues	Extrac	ction Sums of Squ	uared Loadings
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	9.614	31.012	31.012	9.614	31.012	31.012
2	2.687	8.668	39.680			
2 3	1.719	5.544	45.224			
4	1.554	5.013	50.237			
5	1.317	4.247	54.484			
6 7	1.283	4.138	58.622			
7	1.180	3.807	62.429			
8	1.004	3.240	65.670			
9	.921	2.970	68.640			
10	.885	2.856	71.496			
11	.844	2.724	74.220			
12	.740	2.387	76.606			
13	.692	2.234	78.840			
14	.682	2.200	81.040			
15	.609	1.965	83.006			
16	.537	1.732	84.737			
17	.534	1.724	86.461			
18	.502	1.618	88.079			
19	.415	1.338	89.417			
20	.398	1.284	90.701			
21	.359	1.159	91.859			
22	.355	1.144	93.003			
23	.331	1.067	94.070			
24	.317	1.021	95.092			
25	.278	.898	95.990			
26	.259	.836	96.826			
27	.253	.817	97.643			
28	.218	.703	98.346			
29	.190	.612	98.957			
30	.174	.563	99.520			
31	.149	.480	100.000			

Extraction Method: Principal Component Analysis.



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Appendix K

One-Way Repeated Measures ANOVA – SPSS Output

Descriptive Statistics

Descriptive Statistics	Mean	Std. Deviation	N
[Start-up] Focus on Firm Growth	6.0530	.90220	132
[Growth] Focus on Firm Growth	5.9848	.93274	132
[Mature] Focus on Firm Growth	5.8788	.98872	132
[Start-up] Focus on Employees / Human Resources	5.6288	1.14188	132
[Growth] Focus on Employees / Human Resources	5.7500	1.13497	132
[Mature] Focus on Employees / Human Resources	5.8712	.95234	132
[Start-up] Focus on Firm Profits	5.7045	1.07532	132
[Growth] Focus on Firm Profits	6.0227	.74614	132
[Mature] Focus on Firm Profits	5.9470	1.04344	132
[Start-up] Focus on Firm Purpose	5.8258	1.14249	132
[Growth] Focus on Firm Purpose	5.7576	.94199	132
[Mature] Focus on Firm Purpose	5.9242	.89631	132
[Start-up] Focus on Societal Benefits	5.4848	1.21997	132
[Growth] Focus on Societal Benefits	5.6894	1.09218	132
[Mature] Focus on Societal Benefits	5.7424	1.01606	132
[Start-up] Focus on Capital for Firm	6.0227	.83315	132
[Growth] Focus on Capital for Firm	5.8864	.93815	132
[Mature] Focus on Capital for Firm	5.8333	1.09939	132
[Start-up] Focus on Environmental Concerns	5.3030	1.54791	132
[Growth] Focus on Environmental Concerns	5.3864	1.31142	132
[Mature] Focus on Environmental Concerns	5.5455	1.09380	132
[Start-up] Focus on Developing New Skills	5.7955	1.01695	132
[Growth] Focus on Developing New Skills	5.7424	1.00092	132
[Mature] Focus on Developing New Skills	5.8409	.97940	132
[Start-up] Focus on Applying Existing Skills	5.8485 5.8258	1.01504 .94502	132 132
[Growth] Focus on Applying Existing Skills [Mature] Focus on Applying Existing Skills	5.9015	1.00274	132
[Start-up] Focus on Firm Revenues	5.7652	1.20343	132
[Growth] Focus on Firm Revenues	5.9848	.90785	132
[Mature] Focus on Firm Revenues	5.9470	1.04344	132
[Start-up] Focus on Firm Reputation	5.7803	.97538	132
[Growth] Focus on Firm Reputation	5.8788	1.04867	132
[Mature] Focus on Firm Reputation	5.9697	.91584	132
[Start-up] Shorter Term Focus	5.7727	1.03813	132
[Growth] Shorter Term Focus	5.6667	1.19584	132
[Mature] Shorter Term Focus	5.5909	1.30738	132
[Start-up] Longer Term Focus	5.6439	1.11979	132
[Growth] Longer Term Focus	5.8939	.93497	132
[Mature] Longer Term Focus	6.0000	.89953	132
[Start-up] Focus on Theoretical Implications	5.5379	1.20688	132
[Growth] Focus on Theoretical Implications	5.5985	1.13823	132
[Mature] Focus on Theoretical Implications	5.6667	1.10975	132
[Start-up] Focus on Practical Implications	5.8712	1.04411	132
[Growth] Focus on Practical Implications	5.8712	1.00689	132
[Mature] Focus on Practical Implications	5.7500	.99138	132
[Start-up] Multi-Stakeholder Focus	5.5227	1.34486	132
[Growth] Multi-Stakeholder Focus	5.7273	.94175	132
[Mature] Multi-Stakeholder Focus	5.7197	1.08645	132
[Start-up] Uni-Stakeholder Focus	5.5833	1.20458	132
[Growth] Uni-Stakeholder Focus	5.5152	1.31628	132
[Mature] Uni-Stakeholder Focus	5.5152	1.12897	132
[Start-up] Competitive Focus	5.7121	1.24502	132
[Growth] Competitive Focus	5.8030	1.01470	132
[Mature] Competitive Focus	5.8636	.97113	132
[Start-up] Cooperative Focus	5.7955	1.08943	132
[Growth] Cooperative Focus	5.5379	1.06581	132
[Mature] Cooperative Focus	5.8182	1.06877	132

Mauchly's Test of Sphericity^a

						Epsilon ^b		
Within Subjects Effect	Measure	Mauchly's W	Approx. Chi- Square	df	Sig.	Greenhouse- Geisser	Huynh- Feldt	Lower- bound
OLC_Stages	Firm_Growth	.979	2.779	2	.249	.979	.994	.500
	Employees_HR	.956	5.866	2	.053	.958	.972	.500
	Firm_Profits	.970	4.023	2	.134	.970	.985	.500
	Firm_Purpose	.952	6.359	2	.042	.954	.968	.500
	Societal_Benefits	.997	.382	2	.826	.997	1.000	.500
	Capital_for_Firm	.949	6.752	2	.034	.952	.965	.500
	Environmental_Concerns	.952	6.335	2	.042	.955	.968	.500
	Developing_New_Skills	.914	11.737	2	.003	.921	.933	.500
	Applying_Exisiting_Skills	.997	.374	2	.829	.997	1.000	.500
	Firm_Revenues	.911	12.078	2	.002	.919	.931	.500
	Firm_Reputation	.979	2.753	2	.252	.979	.994	.500
	Shorter_Term_Focus	.946	7.225	2	.027	.949	.962	.500
	Longer_Term_Focus	.909	12.414	2	.002	.917	.929	.500
	Theoretical_Implications	.995	.704	2	.703	.995	1.000	.500
	Practical_Implications	.996	.580	2	.748	.996	1.000	.500
	Multi_Stkaholder_Focus	.968	4.232	2	.121	.969	.983	.500
	Uni_Stakeholder_Focus	.975	3.271	2	.195	.976	.990	.500
	Competitive_Focus	.987	1.659	2	.436	.987	1.000	.500
	Cooperative_Focus	.973	3.550	2	.170	.974	.988	.500

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept
Within Subjects Design: OLC_Stages
b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Univariate Tests

			Type III					Partial	
			Sum of		Mean			Eta	Observed
Source	Measure		Squares	df	Square	F	Sig.	Squared	Power ^a
OLC	Firm Growth	Sphericity Assumed	2.035	2	1.018	1.594	.205	.012	.336
Stages		Greenhouse-Geisser	2.035	1.959	1.039	1.594	.206	.012	.332
		Huynh-Feldt	2.035	1.988	1.024	1.594	.205	.012	.335
		Lower-bound	2.035	1.000	2.035	1.594	.209	.012	.241
	Employees / HR	Sphericity Assumed	3.879	2	1.939	2.373	.095	.018	.477
		Greenhouse-Geisser	3.879	1.915	2.025	2.373	.098	.018	.466
		Huynh-Feldt	3.879	1.943	1.996	2.373	.097	.018	.470
		Lower-bound	3.879	1.000	3.879	2.373	.126	.018	.334
	Firm Profit	Sphericity Assumed	7.293	2	3.646	5.427	.005	.040	.843
		Greenhouse-Geisser	7.293	1.941	3.758	5.427	.005	.040	.835
		Huynh-Feldt	7.293	1.970	3.703	5.427	.005	.040	.839
		Lower-bound	7.293	1.000	7.293	5.427	.021	.040	.638
	Firm Purpose	Sphericity Assumed	1.854	2	.927	1.213	.299	.009	.264
		Greenhouse-Geisser	1.854	1.909	.971	1.213	.298	.009	.258
		Huynh-Feldt	1.854	1.936	.957	1.213	.298	.009	.260
		Lower-bound	1.854	1.000	1.854	1.213	.273	.009	.194
	Societal Benefits	Sphericity Assumed	4.884	2	2.442	3.559	.030	.026	.658
		Greenhouse-Geisser	4.884	1.994	2.449	3.559	.030	.026	.657
		Huynh-Feldt	4.884	2.000	2.442	3.559	.030	.026	.658
		Lower-bound	4.884	1.000	4.884	3.559	.061	.026	.465

Capital For Firm	Sphericity Assumed	2.520	2	1.260	1.933	.147	.015	.3
_	Greenhouse-Geisser	2.520	1.904	1.324	1.933	.149	.015	.3
	Huynh-Feldt	2.520	1.931	1.305	1.933	.148	.015	.3
	Lower-bound	2.520	1.000	2.520	1.933	.167	.015	.2
Environmental	Sphericity Assumed	4.005	2	2.003	1.938	.146	.015	.4
Concerns	Greenhouse-Geisser	4.005	1.909	2.098	1.938	.148	.015	.3
	Huynh-Feldt	4.005	1.937	2.068	1.938	.147	.015	.3
	Lower-bound	4.005	1.000	4.005	1.938	.166	.015	.2
Developing New	Sphericity Assumed	.641	2	.321	.465	.629	.004	.1
Skills	Greenhouse-Geisser	.641	1.841	.348	.465	.613	.004	.1
	Huynh-Feldt	.641	1.866	.344	.465	.615	.004	.1
	Lower-bound	.641	1.000	.641	.465	.496	.004	
Applying Existing	Sphericity Assumed	.399	2	.199	.279	.757	.002	
Skills	Greenhouse-Geisser	.399	1.994	.200	.279	.756	.002	
	Huynh-Feldt	.399	2.000	.199	.279	.757	.002	
	Lower-bound	.399	1.000	.399	.279	.599	.002	ا
Firm Revenues	Sphericity Assumed	3.641	2	1.821	2.413	.092	.018	
riiii Revenues	Greenhouse-Geisser	3.641	1.837	1.982	2.413	.092	.018	٠.
	Huynh-Feldt	3.641	1.862	1.956	2.413	.096	.018	
	Lower-bound	3.641	1.000	3.641	2.413	.123	.018	
Eine Donatation	•							
Firm Reputation	Sphericity Assumed	2.369	1.050	1.184	1.985	.139	.015	
	Greenhouse-Geisser	2.369	1.959	1.209	1.985	.140	.015	÷
	Huynh-Feldt	2.369	1.988	1.191	1.985	.140	.015	
~! m	Lower-bound	2.369	1.000	2.369	1.985	.161	.015	•
Shorter Term	Sphericity Assumed	2.202	2	1.101	1.170	.312	.009	-
	Greenhouse-Geisser	2.202	1.897	1.161	1.170	.310	.009	-
	Huynh-Feldt	2.202	1.925	1.144	1.170	.311	.009	
	Lower-bound	2.202	1.000	2.202	1.170	.281	.009	
Longer Term	Sphericity Assumed	8.823	2	4.412	6.356	.002	.046	
	Greenhouse-Geisser	8.823	1.833	4.813	6.356	.003	.046	
	Huynh-Feldt	8.823	1.858	4.749	6.356	.003	.046	-
	Lower-bound	8.823	1.000	8.823	6.356	.013	.046	
Theoretical	Sphericity Assumed	1.096	2	.548	.692	.502	.005	
Implications	Greenhouse-Geisser	1.096	1.989	.551	.692	.501	.005	
	Huynh-Feldt	1.096	2.000	.548	.692	.502	.005	
	Lower-bound	1.096	1.000	1.096	.692	.407	.005	
Practical	Sphericity Assumed	1.293	2	.646	.988	.374	.007	
Implications	Greenhouse-Geisser	1.293	1.991	.649	.988	.373	.007	
	Huynh-Feldt	1.293	2.000	.646	.988	.374	.007	
	Lower-bound	1.293	1.000	1.293	.988	.322	.007	
Multi-Stakeholder	Sphericity Assumed	3.551	2	1.775	1.842	.160	.014	
	Greenhouse-Geisser	3.551	1.938	1.832	1.842	.162	.014	
	Huynh-Feldt	3.551	1.967	1.805	1.842	.161	.014	
	Lower-bound	3.551	1.000	3.551	1.842	.177	.014	
Uni-Stakeholder	Sphericity Assumed	.409	2	.205	.246	.782	.002	
	Greenhouse-Geisser	.409	1.952	.210	.246	.776	.002	
	Huynh-Feldt	.409	1.981	.207	.246	.780	.002	
	Lower-bound	.409	1.000	.409	.246	.621	.002	
Competitive	Sphericity Assumed	1.535	2	.768	.938	.393	.007	
*	Greenhouse-Geisser	1.535	1.975	.777	.938	.392	.007	
	Huynh-Feldt	1.535	2.000	.768	.938	.393	.007	
		I E		1.535	.938	.335	.007	
		1 535	()()()					
Cooperative	Lower-bound	1.535	1.000				1	
Cooperative	Lower-bound Sphericity Assumed	6.399	2	3.199	5.002	.007	.037	
Cooperative	Lower-bound						1	

Error (OLC	Firm Growth	Sphericity Assumed	167.298	262	.639			
Stages)		Greenhouse-Geisser	167.298	256.574	.652			
		Huynh-Feldt	167.298	260.426	.642			
		Lower-bound	167.298	131.000	1.277			
	Employees / HR	Sphericity Assumed	214.121	262	.817			
		Greenhouse-Geisser	214.121	250.929	.853			
		Huynh-Feldt	214.121	254.567	.841			
		Lower-bound	214.121	131.000	1.635			
	Firm Profit	Sphericity Assumed	176.040	262	.672			
		Greenhouse-Geisser	176.040	254.252	.692			
		Huynh-Feldt	176.040	258.015	.682			
		Lower-bound	176.040	131.000	1.344			
	Firm Purpose	Sphericity Assumed	200.146	262	.764			
		Greenhouse-Geisser	200.146	250.062	.800			
		Huynh-Feldt	200.146	253.668	.789			
		Lower-bound	200.146	131.000	1.528			
	Societal Benefits	Sphericity Assumed	179.783	262	.686			į.
		Greenhouse-Geisser	179.783	261.233	.688			
		Huynh-Feldt	179.783	262.000	.686			
		Lower-bound	179.783	131.000	1.372			
	Capital For Firm	Sphericity Assumed	170.813	262	.652			
		Greenhouse-Geisser	170.813	249.378	.685			
		Huynh-Feldt	170.813	252.957	.675			
		Lower-bound	170.813	131.000	1.304			
	Environmental Concerns	Sphericity Assumed	270.662	262	1.033			
	Concerns	Greenhouse-Geisser	270.662	250.105	1.082			
		Huynh-Feldt	270.662	253.711	1.067			
	D. J. S. M.	Lower-bound	270.662	131.000	2.066			
	Developing New Skills	Sphericity Assumed	180.692	262	.690			
		Greenhouse-Geisser	180.692	241.179	.749		ļ.	ļ.
		Huynh-Feldt	180.692	244.455	.739 1.379			
	Applying Existing	Lower-bound Sphericity Assumed	180.692 187.601	131.000 262	.716			
	Skills	Greenhouse-Geisser	187.601	261.249	.718			
	~	Huynh-Feldt	187.601	262.000	.716			
		Lower-bound	187.601	131.000	1.432		l.	
	Firm Revenues	Sphericity Assumed	197.692	262	.755			
	T IIII Tevenues	Greenhouse-Geisser	197.692	240.650	.821			
		Huynh-Feldt	197.692	243.907	.811		i.	
		Lower-bound	197.692	131.000	1.509		i.	
	Firm Reputation	Sphericity Assumed	156.298	262	.597			
	· F	Greenhouse-Geisser	156.298	256.622	.609			
		Huynh-Feldt	156.298	260.476	.600			
		Lower-bound	156.298	131.000	1.193			
	Shorter Term	Sphericity Assumed	246.465	262	.941			
		Greenhouse-Geisser	246.465	248.563	.992			
		Huynh-Feldt	246.465	252.112	.978			
		Lower-bound	246.465	131.000	1.881			
	Longer Term	Sphericity Assumed	181.843	262	.694			
	-	Greenhouse-Geisser	181.843	240.130	.757			
		Huynh-Feldt	181.843	243.368	.747])
		Lower-bound	181.843	131.000	1.388		ľ	Ì
	Theoretical	Sphericity Assumed	207.571	262	.792			
	Implications	Greenhouse-Geisser	207.571	260.592	.797		1	1
		Huynh-Feldt	207.571	262.000	.792])
		Lower-bound	207.571	131.000	1.585	<u></u>	<u>L</u>	<u> </u>

Practical	Sphericity Assumed	171.374	262	.654		
Implications	Greenhouse-Geisser	171.374	260.839	.657		Ì
	Huynh-Feldt	171.374	262.000	.654		
	Lower-bound	171.374	131.000	1.308		Ì
Multi-Stakeholder	Sphericity Assumed	252.449	262	.964		
	Greenhouse-Geisser	252.449	253.869	.994		Ì
	Huynh-Feldt	252.449	257.618	.980		Ì
	Lower-bound	252.449	131.000	1.927		Ì
Uni-Stakeholder	Sphericity Assumed	217.591	262	.830		
	Greenhouse-Geisser	217.591	255.648	.851		Ì
	Huynh-Feldt	217.591	259.465	.839		Ì
	Lower-bound	217.591	131.000	1.661		
Competitive	Sphericity Assumed	214.465	262	.819		
	Greenhouse-Geisser	214.465	258.719	.829		Ì
	Huynh-Feldt	214.465	262.000	.819		
	Lower-bound	214.465	131.000	1.637		Ì
Cooperative	Sphericity Assumed	167.601	262	.640		
	Greenhouse-Geisser	167.601	255.128	.657		
	Huynh-Feldt	167.601	258.925	.647		Ì
	Lower-bound	167.601	131.000	1.279		Ì

Pairwise Comparisons

						95% Confidence Inte	rval for Difference ^b
Measure	(I) OLC Stages	(J) OLC Stages	Mean Difference (I-J)	Std. Error	Sig.b	Lower Bound	Upper Bound
Firm Growth	Start-up (1)	Growth (2)	.068	.102	.506	134	.270
		Mature (3)	.174	.091	.058	006	.354
	2	1	068	.102	.506	270	.134
		3	.106	.102	.298	095	.307
	3	1	174	.091	.058	354	.006
		2	106	.102	.298	307	.095
Employees / HR	1	2	121	.111	.276	340	.098
		3	242*	.101	.018	442	043
	2	1	.121	.111	.276	098	.340
		3	121	.121	.319	361	.119
	3	1	.242*	.101	.018	.043	.442
		2	.121	.121	.319	119	.361
Firm Profits	1	2	318*	.109	.004	534	102
		3	242*	.096	.012	432	053
	2	1	.318*	.109	.004	.102	.534
		3	.076	.097	.437	116	.268
	3	1	.242*	.096	.012	.053	.432
		2	076	.097	.437	268	.116
Firm Purpose	1	2	.068	.109	.532	147	.283
		3	098	.117	.400	329	.132
	2	1	068	.109	.532	283	.147
		3	167	.096	.086	357	.024
	3	1	.098	.117	.400	132	.329
G 1 . 1 D G		2	.167	.096	.086	024	.357
Societal Benefits	1	2	205* 250*	.102	.048	407	002
	2	3	258 [*]	.104	.015	463	052
	2	1	.205*	.102	.048 .594	.002	.407
	3	3	053	.099		250	.143
	3	2	.258*	.104 .099	.015 .594	.052	.463
		<i>L</i>	.053	.099	.394	143	.250

Continued)							
Capital For Firm	1	2	.136	.096	.158	054	.326
	_	3	.189	.110	.087	028	.406
	2	1	136	.096	.158	326	.054
	3	3 1	.053	.091	.563	128 406	.028
	3	2	053	.091	.563	406	.028
Environmental Concerns	1	2	083	.123	.498	326	.159
	1	3	242	.137	.080	514	.029
	2	1	.083	.123	.498	159	.320
		3	159	.114	.166	385	.06
	3	1	.242	.137	.080	029	.514
		2	.159	.114	.166	067	.385
Developing New Skills	1	2	.053	.086	.540	118	.224
		3	045	.112	.685	266	.170
	2	1	053	.086	.540	224	.118
	2	3	098	.107	.359	310	.113
	3	1 2	.045 .098	.112 .107	.685 .359	176 113	.260
Applying Existing Skills	1	2	.023	.107	.827	113	.228
Applying existing Skills	1	3	053	.107	.620	264	.158
	2	1	023	.104	.827	228	.183
		3	076	.102	.458	277	.126
	3	1	.053	.107	.620	158	.264
		2	.076	.102	.458	126	.277
Firm Revenues	1	2	220	.114	.057	446	.007
		3	182	.115	.115	409	.045
	2	1	.220	.114	.057	007	.440
		3	.038	.090	.673	139	.215
	3	1 2	.182 038	.115 .090	.115 .673	045 215	.409 .139
Firm Reputation	1	2	098	.090	.285	213	.083
Firm Reputation	1	3	189*	.092	.040	370	009
	2	1	.098	.092	.285	083	.280
	_	3	091	.102	.373	292	.110
	3	1	.189*	.091	.040	.009	.370
		2	.091	.102	.373	110	.292
Shorter Term Focus	1	2	.106	.111	.343	114	.320
		3	.182	.133	.172	080	.444
	2	1	106	.111	.343	326	.114
Langua Tanna Facus		3	.076	.113	.504	148	.300
	3	1	182	.133	.172	444	.080
	1	2 2	076 250*	.113	.504	300 441	.148
Longer Term Focus	1	3	256*	.117	.003	587	039
	2	1	.250*	.096	.011	.059	.44
	-	3	106	.093	.255	289	.07
	3	1	.356*	.117	.003	.125	.58
		2	.106	.093	.255	077	.289
Theoretical Implications	1	2	061	.110	.581	277	.156
		3	129	.113	.256	352	.095
	2	1	.061	.110	.581	156	.27
		3	068	.106	.521	278	.142
	3	1	.129	.113	.256	095	.352
Described Inschied	1	2	.068	.106	.521	142	.27
Practical Implications	1	2	.000	.096	1.000	190 078	.19
	2	3 1	.121	.101	1.000	078 190	.32
	4	3	.121	.101	.234	080	.322
	3	1	121	.101	.232	321	.078
	5	2	121	.101	.234	322	.080
		=	121	.101	.234	322	.08

1	2	- 205	123	100	_ 449	.040
1	3					.057
2	1					.449
2	3					.225
3	1					.451
5	2					.210
1	2					.296
•	=					.301
2	1					.159
	3					.204
3	1			.564	301	.165
	2	.000	.103	1.000	204	.204
1	2	091	.117	.439	322	.141
	3	152	.110	.172	370	.067
2	1	.091	.117	.439	141	.322
	3	061	.106	.570	271	.150
3	1	.152	.110	.172	067	.370
	2	.061	.106	.570	150	.271
1	2	.258*	.094	.007	.073	.443
	3	023	.106	.831	233	.187
2	1	258*	.094	.007	443	073
	3		.095	.004		092
3	1					.233
-	2					.469
	3 1 2 2	3 2 1 3 3 1 2 1 2 1 2 3 2 1 2 3 3 3 1 2 1 2	3197 2 1 .205 3 .008 3 1 .197 2008 1 2 .068 3 .068 2 1 .068 3 .068 2 1 .068 3 .000 1 2 .068 2 .000 1 2 .009 3152 2 1 .091 3152 2 1 .091 3061 3 1 .152 2 .061 1 2 .258* 3023 2 1228* 3228*	3 197 .128 2 1 .205 .123 3 .008 .110 3 1 .197 .128 2 008 .110 1 2 .068 .115 3 .068 .118 2 1 068 .115 3 .000 .103 3 1 068 .118 2 .000 .103 1 2 091 .117 3 152 .110 2 1 .091 .117 3 061 .106 3 1 .152 .110 2 .061 .106 1 2 .258* .094 3 023 .106 2 1 258* .094 3 280* .095 3 1 .023 .106	3 197 .128 .127 2 1 .205 .123 .100 3 .008 .110 .945 3 1 .197 .128 .127 2 008 .110 .945 1 2 .068 .115 .554 3 .068 .118 .564 2 1 068 .115 .554 3 .000 .103 1.000 3 1 068 .118 .564 2 .000 .103 1.000 1 2 .000 .103 1.000 1 2 .091 .117 .439 3 052 .110 .172 2 1 .091 .117 .439 3 061 .106 .570 3 1 .152 .110 .172 2 .061 .106 .570	3

Based on estimated marginal means

*. The mean difference is significant at the 0.05 level
b. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Appendix L

Determining Occupational Experience Data Normality

Tests of Normality

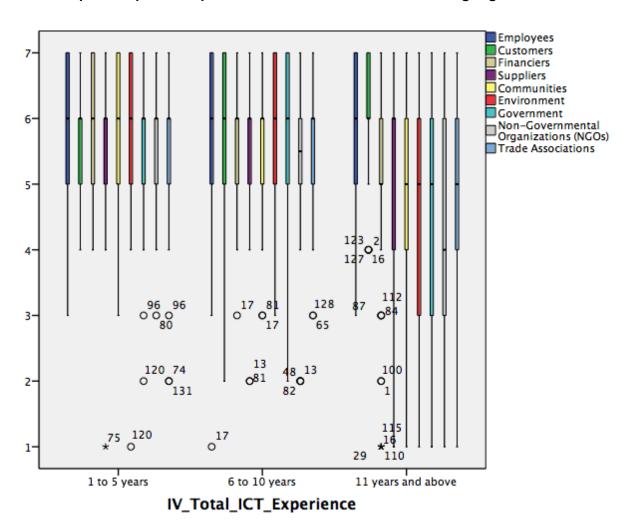
	Tests of Normanty	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Total ICT Experience	Statistic	df	Sig.	Statistic	df	Sig.	
Employees	1 to 5 years	.208	45	.000	.860	45	.000	
Employees	-							
	6 to 10 years	.212	42	.000	.790	42	.000	
	11 years and above	.178	41	.002	.884	41	.001	
Customers	1 to 5 years	.202	45	.000	.875	45	.000	
	6 to 10 years	.223	42	.000	.826	42	.000	
	11 years and above	.254	41	.000	.793	41	.000	
Financiers	1 to 5 years	.211	45	.000	.852	45	.000	
	6 to 10 years	.229	42	.000	.886	42	.001	
	11 years and above	.278	41	.000	.838	41	.000	
Suppliers	1 to 5 years	.255	45	.000	.835	45	.000	
	6 to 10 years	.301	42	.000	.797	42	.000	
	11 years and above	.226	41	.000	.869	41	.000	
Communities	1 to 5 years	.203	45	.000	.875	45	.000	
	6 to 10 years	.322	42	.000	.830	42	.000	
	11 years and above	.177	41	.002	.902	41	.002	
Environment	1 to 5 years	.184	45	.001	.847	45	.000	
	6 to 10 years	.207	42	.000	.881	42	.000	
	11 years and above	.262	41	.000	.901	41	.002	
Government	1 to 5 years	.201	45	.000	.872	45	.000	
	6 to 10 years	.220	42	.000	.861	42	.000	
	11 years and above	.202	41	.000	.881	41	.000	
Non-Governmental Organizations (NGOs)	1 to 5 years	.193	45	.000	.899	45	.001	
•	6 to 10 years	.211	42	.000	.860	42	.000	
	11 years and above	.151	41	.020	.919	41	.007	
Trade Associations	1 to 5 years	.196	45	.000	.890	45	.000	
	6 to 10 years	.223	42	.000	.886	42	.001	
	11 years and above	.156	41	.013	.939	41	.028	

a. Lilliefors Significance Correction

Appendix M

One-Way ANOVA Results Of Occupation Experience Data

M.1: Boxplot Graphical Representation Of Data Before Removing Significant Outliers



Respondents identified as 16, 29, 75, 110 and 115 in the boxplot graph above are then removed to check how they may affect the results.

				Descriptiv	ves				
						95% Confiden	ce Interval for		
				Std.	Std.	Me	ean		
		N	Mean	Deviation	Error	Lower Bound	Upper Bound	Minimum	Maximum
Employees	1 to 5 years	46	5.8261	1.10160	.16242	5.4990	6.1532	3.00	7.00
	6 to 10 years	44	5.7727	1.42834	.21533	5.3385	6.2070	1.00	7.00
	11 years and above	41	5.6341	1.13481	.17723	5.2760	5.9923	3.00	7.00
	Total	131	5.7481	1.22376	.10692	5.5366	5.9596	1.00	7.00
Customers	1 to 5 years	46	5.7391	.92939	.13703	5.4631	6.0151	4.00	7.00
	6 to 10 years	44	5.8864	1.27982	.19294	5.4973	6.2755	2.00	7.00
İ	11 years and above	42	6.1190	.94230	.14540	5.8254	6.4127	4.00	7.00
İ	Total	132	5.9091	1.06617	.09280	5.7255	6.0927	2.00	7.00
Financiers	1 to 5 years	45	5.8889	1.00504	.14982	5.5869	6.1908	4.00	7.00
	6 to 10 years	43	5.7209	1.00772	.15368	5.4108	6.0311	3.00	7.00
	11 years and above	42	4.9048	1.79171	.27647	4.3464	5.4631	1.00	7.00
	Total	130	5.5154	1.37099	.12024	5.2775	5.7533	1.00	7.00
Suppliers	1 to 5 years	46	5.5870	1.16573	.17188	5.2408	5.9331	1.00	7.00
	6 to 10 years	44	5.6364	1.29563	.19532	5.2425	6.0303	2.00	7.00
	11 years and above	42	5.0714	1.78603	.27559	4.5149	5.6280	1.00	7.00
	Total	132	5.4394	1.44231	.12554	5.1911	5.6877	1.00	7.00
Communities	1 to 5 years	45	5.7778	1.08479	.16171	5.4519	6.1037	3.00	7.00
	6 to 10 years	44	5.7045	1.06922	.16119	5.3795	6.0296	3.00	7.00
	11 years and above	42	5.0000	1.53018	.23611	4.5232	5.4768	1.00	7.00
	Total	131	5.5038	1.27927	.11177	5.2827	5.7249	1.00	7.00
Environment	1 to 5 years	45	5.5778	1.21522	.18115	5.2127	5.9429	1.00	7.00
	6 to 10 years	44	5.6818	1.07342	.16182	5.3555	6.0082	3.00	7.00
	11 years and above	42	4.5000	1.75652	.27104	3.9526	5.0474	1.00	7.00
	Total	131	5.2672	1.46142	.12769	5.0146	5.5198	1.00	7.00
Government	1 to 5 years	45	5.6444	1.13128	.16864	5.3046	5.9843	2.00	7.00
	6 to 10 years	44	5.5000	1.32068	.19910	5.0985	5.9015	2.00	7.00
	11 years and above	42	4.5238	1.99069	.30717	3.9035	5.1442	1.00	7.00
	Total	131	5.2366	1.58275	.13829	4.9631	5.5102	1.00	7.00
Non-	1 to 5 years	45	5.5556	1.07778	.16067	5.2318	5.8794	3.00	7.00
Governmental	6 to 10 years	43	5.2326	1.39450	.21266	4.8034	5.6617	2.00	7.00
Organizations	11 years and above	42	4.3095	1.78733	.27579	3.7526	4.8665	1.00	7.00
(NGOs)	Total	130	5.0462	1.52428	.13369	4.7816	5.3107	1.00	7.00
Trade	1 to 5 years	45	5.4444	1.32383	.19734	5.0467	5.8422	2.00	7.00
Associations	6 to 10 years	44	5.4318	1.26487	.19069	5.0473	5.8164	2.00	7.00
	11 years and above	42	4.4048	1.62390	.25057	3.8987	4.9108	1.00	7.00
	Total	131	5.1069	1.47935	.12925	4.8512	5.3626	1.00	7.00

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Employees	Between Groups	.839	2	.419	.277	.759
	Within Groups	193.848	128	1.514		
	Total	194.687	130			
Customers	Between Groups	3.203	2	1.601	1.418	.246
	Within Groups	145.706	129	1.130		
	Total	148.909	131			
Financiers	Between Groups	23.755	2	11.877	6.897	.001
	Within Groups	218.715	127	1.722		
	Total	242.469	129			
Suppliers	Between Groups	8.395	2	4.198	2.050	.133
	Within Groups	264.120	129	2.047		
	Total	272.515	131			
Communities	Between Groups	15.811	2	7.906	5.138	.007
	Within Groups	196.937	128	1.539		
	Total	212.748	130			
Environment	Between Groups	36.626	2	18.313	9.725	.000
	Within Groups	241.023	128	1.883		
	Total	277.649	130			
Government	Between Groups	31.877	2	15.938	6.944	.001
	Within Groups	293.787	128	2.295		
	Total	325.664	130			
Non-Governmental Organizations (NGOs)	Between Groups	35.961	2	17.981	8.658	.000
	Within Groups	263.762	127	2.077		
	Total	299.723	129			
Trade Associations	Between Groups	30.478	2	15.239	7.679	.001
	Within Groups	254.026	128	1.985		
	Total	284.504	130			

Robust Tests of Equality of Means

Robust Tests of Equality of Means												
		Statistic ^a	df1	df2	Sig.							
Employees	Welch	.326	2	83.924	.723							
Customers	Welch	1.804	2	84.241	.171							
Financiers	Welch	4.894	2	80.027	.010							
Suppliers	Welch	1.563	2	82.252	.216							
Communities	Welch	4.011	2	82.592	.022							
Environment	Welch	7.357	2	81.615	.001							
Government	Welch	5.178	2	80.556	.008							
Non-Governmental Organizations (NGOs)	Welch	7.558	2	79.937	.001							
Trade Associations	Welch	6.491	2	83.731	.002							

a. Asymptotically F distributed.

Multiple Comparisons

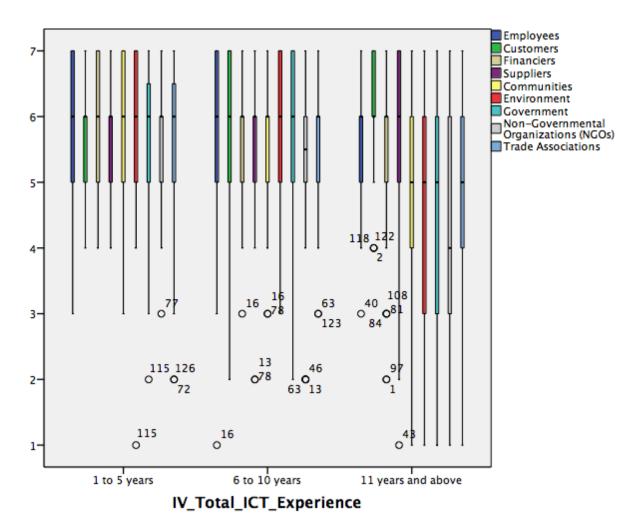
			Multiple Comparison	s				
							95% Cor Inte	
_		(I) Total ICT	(J) Total ICT	Mean	Std.		Lower	Upper
Dependent Var		Experience	Experience	Difference (I-J)	Error	Sig.	Bound	Bound
Employees	Tukey HSD	1 to 5 years	6 to 10 years	.05336	.25950	.977	5620	.6687
			11 years and above	.19194	.26431	.748	4348	.8187
		6 to 10 years	1 to 5 years	05336	.25950	.977	6687	.5620
			11 years and above	.13858	.26713	.862	4949	.7720
		11 years and above	1 to 5 years	19194	.26431	.748	8187	.4348
			6 to 10 years	13858	.26713	.862	7720	.4949
	Games-	1 to 5 years	6 to 10 years	.05336	.26972	.979	5906	.6974
	Howell		11 years and above	.19194	.24040	.705	3817	.7656
		6 to 10 years	1 to 5 years	05336	.26972	.979	6974	.5906
		,	11 years and above	.13858	.27889	.873	5273	.8044
		11 years and above	1 to 5 years	19194	.24040	.705	7656	.3817
		11 years and accre	6 to 10 years	13858	.27889	.873	8044	.5273
Customers	Tukey HSD	1 to 5 years	6 to 10 years	14723	.22411	.789	6786	.3841
Customers	Tukey 115D	1 to 5 years	11 years and above	37992	.22682	.219	9177	.1579
		6 to 10 years	1 to 5 years	.14723	.22411	.789	3841	.6786
		· · · · · · · · · · · · · · · · · · ·	11 years and above	23268	.22927	.569	7763	.3109
		11 years and above	1 to 5 years	.37992	.22682	.219	1579	.9177
		•	6 to 10 years	.23268	.22927	.569	3109	.7763
	Games-	1 to 5 years	6 to 10 years	14723	.23665	.808	7126	.4181
	Howell		11 years and above	37992	.19980	.144	8565	.0967
		6 to 10 years	1 to 5 years	.14723	.23665	.808	4181	.7126
			11 years and above	23268	.24159	.602	8098	.3444
		11 years and above	1 to 5 years	.37992	.19980	.144	0967	.8565
			6 to 10 years	.23268	.24159	.602	3444	.8098
Financiers	Tukey HSD	1 to 5 years	6 to 10 years	.16796	.27986	.820	4957	.8316
			11 years and above	.98413*	.28156	.002	.3164	1.6518
		6 to 10 years	1 to 5 years	16796	.27986	.820	8316	.4957
			11 years and above	.81617*	.28470	.013	.1410	1.4913
		11 years and above	1 to 5 years	98413*	.28156	.002	-1.6518	3164
		1	6 to 10 years	81617*	.28470	.013	-1.4913	1410
	Games- Howell	1 to 5 years	6 to 10 years	.16796	.21462	.715	3439	.6798
	Howen	6 to 10	11 years and above	.98413*	.31445	.007	.2295	1.7388
		6 to 10 years	1 to 5 years 11 years and above	16796 .81617*		.715 .032	6798	
		11 years and above	1 to 5 years	98413*	.31631	.032	.0573 -1.7388	1.5750 2295
		11 years and above	6 to 10 years	81617*	.31631	.032	-1.5750	0573
Suppliers	Tukey HSD	1 to 5 years	6 to 10 years	04941	.30173	.985	7648	.6660
Бирриста	runcy 115D	1 to 5 years	11 years and above	.51553	.30538	.214	2086	1.2396
		6 to 10 years	1 to 5 years	.04941	.30173	.985	6660	.7648
		· · · · · · · · · · · · · · · · · · ·	11 years and above	.56494	.30868	.164	1670	1.2968
		11 years and above	1 to 5 years	51553	.30538	.214	-1.2396	.2086
		•	6 to 10 years	56494	.30868	.164	-1.2968	.1670
	Games-	1 to 5 years	6 to 10 years	04941	.26018	.980	6699	.5711
	Howell	•	11 years and above	.51553	.32480	.258	2623	1.2934
		6 to 10 years	1 to 5 years	.04941	.26018	.980	5711	.6699
			11 years and above	.56494	.33779	.223	2428	1.3727
		11 years and above	1 to 5 years	51553	.32480	.258	-1.2934	.2623
			6 to 10 years	56494	.33779	.223	-1.3727	.2428

10		1)
CO	ntini	ued

Continued)								
Communities	Tukey HSD	1 to 5 years	6 to 10 years	.07323 .77778*	.26298 .26613	.958 .011	5504	.6968 1.4088
		6 to 10 years	11 years and above 1 to 5 years	07323	.26298	.958	.1467 6968	.5504
		o to 10 years	11 years and above	.70455*	.26758	.026	.0700	1.339
		11 years and above	1 to 5 years	77778*	.26613	.011	-1.4088	146
) •	6 to 10 years	70455*	.26758	.026	-1.3391	070
	Games-	1 to 5 years	6 to 10 years	.07323	.22833	.945	4712	.617
	Howell		11 years and above	.77778*	.28618	.022	.0932	1.462
		6 to 10 years	1 to 5 years	07323	.22833	.945	6177	.471
			11 years and above	.70455*	.28589	.042	.0206	1.388
		11 years and above	1 to 5 years	77778 [*]	.28618	.022	-1.4624	0932
			6 to 10 years	70455*	.28589	.042	-1.3885	020
Environment	Tukey HSD	1 to 5 years	6 to 10 years	10404	.29093	.932	7939	.585
		C to 10	11 years and above	1.07778*	.29441	.001	.3796	1.775
		6 to 10 years	1 to 5 years 11 years and above	.10404 1.18182*	.29093 .29602	.932	5858 .4799	.793 1.883
		11 years and above	1 to 5 years	-1.07778*	.29441	.000	-1.7759	379
		11 years and above	6 to 10 years	-1.07778 -1.18182*	.29602	.000	-1.8838	479
	Games-	1 to 5 years	6 to 10 years	10404	.24291	.904	6833	.475
	Howell	1 to 5 years	11 years and above	1.07778*	.32600	.004	.2977	1.857
		6 to 10 years	1 to 5 years	.10404	.24291	.904	4753	.683
		J - 	11 years and above	1.18182*	.31567	.001	.4253	1.938
		11 years and above	1 to 5 years	-1.07778*	.32600	.004	-1.8579	297
		,	6 to 10 years	-1.18182*	.31567	.001	-1.9384	425
Government	Tukey HSD	1 to 5 years	6 to 10 years	.14444	.32120	.895	6172	.906
			11 years and above	1.12063*	.32504	.002	.3499	1.891
		6 to 10 years	1 to 5 years	14444	.32120	.895	9061	.617
			11 years and above	.97619*	.32682	.009	.2012	1.7512
		11 years and above	1 to 5 years	-1.12063	.32504	.002	-1.8914	349
			6 to 10 years	97619*	.32682	.009	-1.7512	2012
	Games-	1 to 5 years	6 to 10 years	.14444	.26092	.845	4781	.766
	Howell	C+ 10	11 years and above	1.12063*	.35042	.006	.2798	1.961
		6 to 10 years	1 to 5 years 11 years and above	14444 .97619*	.26092	.845 .025	7669 .0999	.478 1.852
		11 years and above	1 to 5 years	-1.12063*	.36605	.023	-1.9614	279
		11 years and above	6 to 10 years	97619*	.36605	.025	-1.8525	099
Non-	Tukey HSD	1 to 5 years	6 to 10 years	.32300	.30733	.546	4058	1.051
Governmental	14110) 1152	1 10 0 9 0 110	11 years and above	1.24603 [*]	.30920	.000	.5128	1.979
Organizations		6 to 10 years	1 to 5 years	32300	.30733	.546	-1.0518	.405
(NGOs)		· ·	11 years and above	.92303*	.31265	.010	.1816	1.664
		11 years and above	1 to 5 years	-1.24603*	.30920	.000	-1.9793	512
			6 to 10 years	92303*	.31265	.010	-1.6645	181
	Games-	1 to 5 years	6 to 10 years	.32300	.26653	.450	3136	.959
	Howell		11 years and above	1.24603*	.31918	.001	.4809	2.011
		6 to 10 years	1 to 5 years	32300	.26653	.450	9596	.313
			11 years and above	.92303*	.34826		.0908	1.755
		11 years and above	1 to 5 years	-1.24603 [*]	.31918	.001	-2.0112	480
T 1-	T. I. HCD	14.5	6 to 10 years	92303*	.34826	.026	-1.7552	090
Trade Associations	Tukey HSD	1 to 5 years	6 to 10 years	.01263	.29867	.999	6956	.720
2 1350CIGHOH5		C+ 10	11 years and above	1.03968	.30225	.002	.3230	1.756
		6 to 10 years	1 to 5 years	01263	.29867	.999	7209	.695
			11 years and above	1.02706*	.30390	.003	.3064	1.747
		11 years and above	1 to 5 years	-1.03968*	.30225	.002	-1.7564	323
			6 to 10 years	-1.02706*	.30390	.003	-1.7477	306
	Games-	1 to 5 years	6 to 10 years	.01263	.27442	.999	6417	.667
	Howell		11 years and above	1.03968*	.31895	.005	.2778	1.801
		6 to 10 years	1 to 5 years	01263	.27442	.999	6670	.641
			11 years and above	1.02706*	.31488	.005	.2746	1.779
		11 years and above	1 to 5 years	-1.03968 [*]	.31895	.005	-1.8015	277
			6 to 10 years	-1.02706*	.31488	.005	-1.7795	274

^{*.} The mean difference is significant at the 0.05 level.

M.2: Boxplot Graphical Representation Of Data After Removing Significant Outliers



After removing the outliers identified in Section M.1 (Appendix M), an updated boxplot graph shows no further extreme outliers as shown above.

Descriptives

				Descriptive	es				
						95% Confide			
						for N	1ean		
				Std.	Std.	Lower	Upper		
		N	Mean	Deviation	Error	Bound	Bound	Minimum	Maximum
Employees	1 to 5 years	45	5.8000	1.09959	.16392	5.4696	6.1304	3.00	7.00
	6 to 10 years	44	5.7727	1.42834	.21533	5.3385	6.2070	1.00	7.00
	11 years and above	37	5.5405	1.12038	.18419	5.1670	5.9141	3.00	7.00
	Total	126	5.7143	1.22544	.10917	5.4982	5.9303	1.00	7.00
Customers	1 to 5 years	45	5.7333	.93905	.13999	5.4512	6.0155	4.00	7.00
	6 to 10 years	44	5.8864	1.27982	.19294	5.4973	6.2755	2.00	7.00
	11 years and above	38	6.1053	.89411	.14504	5.8114	6.3991	4.00	7.00
	Total	127	5.8976	1.06036	.09409	5.7114	6.0838	2.00	7.00
Financiers	1 to 5 years	44	5.8864	1.01651	.15325	5.5773	6.1954	4.00	7.00
	6 to 10 years	43	5.7209	1.00772	.15368	5.4108	6.0311	3.00	7.00
	11 years and above	38	5.3158	1.31735	.21370	4.8828	5.7488	2.00	7.00
	Total	125	5.6560	1.12954	.10103	5.4560	5.8560	2.00	7.00
Suppliers	1 to 5 years	45	5.6889	.94922	.14150	5.4037	5.9741	4.00	7.00
	6 to 10 years	44	5.6364	1.29563	.19532	5.2425	6.0303	2.00	7.00
	11 years and above	38	5.3421	1.61540	.26205	4.8111	5.8731	1.00	7.00
	Total	127	5.5669	1.29462	.11488	5.3396	5.7943	1.00	7.00
Communities	1 to 5 years	44	5.7955	1.09075	.16444	5.4638	6.1271	3.00	7.00
	6 to 10 years	44	5.7045	1.06922	.16119	5.3795	6.0296	3.00	7.00
	11 years and above	38	5.0789	1.42149	.23060	4.6117	5.5462	1.00	7.00
	Total	126	5.5476	1.22381	.10903	5.3318	5.7634	1.00	7.00
Environment	1 to 5 years	44	5.5909	1.22604	.18483	5.2182	5.9637	1.00	7.00
	6 to 10 years	44	5.6818	1.07342	.16182	5.3555	6.0082	3.00	7.00
	11 years and above	38	4.6053	1.77885	.28857	4.0206	5.1900	1.00	7.00
	Total	126	5.3254	1.44127	.12840	5.0713	5.5795	1.00	7.00
Government	1 to 5 years	44	5.6364	1.14305	.17232	5.2888	5.9839	2.00	7.00
	6 to 10 years	44	5.5000	1.32068	.19910	5.0985	5.9015	2.00	7.00
	11 years and above	38	4.6579	1.94903	.31617	4.0173	5.2985	1.00	7.00
	Total	126	5.2937	1.53398	.13666	5.0232	5.5641	1.00	7.00
Non-	1 to 5 years	44	5.5682	1.08687	.16385	5.2377	5.8986	3.00	7.00
Governmental	6 to 10 years	43	5.2326	1.39450	.21266	4.8034	5.6617	2.00	7.00
Organizations (NGOs)	11 years and above	38	4.3947	1.70118	.27597	3.8356	4.9539	1.00	7.00
` /	Total	125	5.0960	1.47246	.13170	4.8353	5.3567	1.00	7.00
Trade	1 to 5 years	44	5.4545	1.33738	.20162	5.0479	5.8611	2.00	7.00
Associations	6 to 10 years	44	5.4318	1.26487	.19069	5.0473	5.8164	2.00	7.00
	11 years and above	38	4.5789	1.55323	.25197	4.0684	5.0895	1.00	7.00
	Total	126	5.1825	1.42773	.12719	4.9308	5.4343	1.00	7.00

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Employees	Between Groups	1.598	2	.799	.528	.591
	Within Groups	186.116	123	1.513		
	Total	187.714	125			
Customers	Between Groups	2.859	2	1.429	1.277	.283
	Within Groups	138.811	124	1.119		
	Total	141.669	126			
Financiers	Between Groups	6.914	2	3.457	2.788	.065
	Within Groups	151.294	122	1.240		
	Total	158.208	124			
Suppliers	Between Groups	2.802	2	1.401	.834	.437
	Within Groups	208.379	124	1.680		
	Total	211.181	126			
Communities	Between Groups	12.133	2	6.066	4.262	.016
	Within Groups	175.081	123	1.423		
	Total	187.214	125			
Environment	Between Groups	28.398	2	14.199	7.552	.001
	Within Groups	231.261	123	1.880		
	Total	259.659	125			
Government	Between Groups	22.400	2	11.200	5.070	.008
	Within Groups	271.734	123	2.209		
	Total	294.135	125			
Non-Governmental Organizations (NGOs)	Between Groups	29.299	2	14.650	7.461	.001
	Within Groups	239.549	122	1.964		
	Total	268.848	124			
Trade Associations	Between Groups	19.834	2	9.917	5.191	.007
	Within Groups	234.968	123	1.910		
	Total	254.802	125			

Multiple Comparisons

			Multiple Compariso	ons				
				Mean			95% Co Inte	nfidence rval
		(I) Total ICT	(J) Total ICT	Difference (I-	Std.		Lower	Upper
Dependent Variable		Experience	Experience	J)	Error	Sig.	Bound	Bound
Employees	Tukey	1 to 5 years	6 to 10 years	.02727	.26080	.994	5914	.6460
	HSD		11 years and above	.25946	.27299	.610	3882	.9071
		6 to 10 years	1 to 5 years	02727	.26080	.994	6460	.5914
			11 years and above	.23219	.27438	.675	4188	.8831
		11 years and	1 to 5 years	25946	.27299	.610	9071	.3882
		above	6 to 10 years	23219	.27438	.675	8831	.4188
	Games-	1 to 5 years	6 to 10 years	.02727	.27062	.994	6189	.6734
	Howell	,	11 years and above	.25946	.24657	.546	3299	.8488
		6 to 10 years	1 to 5 years	02727	.27062	.994	6734	.6189
		0 10 10 3 1011	11 years and above	.23219	.28336	.692	4447	.9091
		11 years and	1 to 5 years	25946	.24657	.546	8488	.3299
		above	6 to 10 years	23219	.28336	.692	9091	.4447
Customers	Tukey	1 to 5 years	6 to 10 years	15303	.22432	.774	6852	.3791
	HSD		11 years and above	37193	.23310	.251	9249	.1810
		6 to 10 years	1 to 5 years	.15303	.22432	.774	3791	.6852
		,	11 years and above	21890	.23431	.620	7747	.3369
		11 years and	1 to 5 years	.37193	.23310	.251	1810	.9249
		above	6 to 10 years	.21890	.23431	.620	3369	.7747
	Games-	1 to 5 years	6 to 10 years	15303	.23837	.797	7225	.4164
	Howell		11 years and above	37193	.20158	.162	8533	.1095
		6 to 10 years	1 to 5 years	.15303	.23837	.797	4164	.7225
			11 years and above	21890	.24138	.638	7958	.3580
		11 years and	1 to 5 years	.37193	.20158	.162	1095	.8533
Pi	Т1	above	6 to 10 years 6 to 10 years	.21890 .16543	.24138	.638	3580 4012	.7958 .7320
Financiers	Tukey HSD	1 to 5 years	=	B I	.23880	.768 .058		
	пър	6 to 10 years	11 years and above 1 to 5 years	.57057 16543	.24661	.768	0146 7320	1.1557 .4012
		o to 10 years	11 years and above	.40514	.24794	.235	1831	.9934
		11 years and	1 to 5 years	57057	.24661	.058	-1.1557	.0146
		above	6 to 10 years	40514	.24794	.235	9934	.1831
	Games-	1 to 5 years	6 to 10 years	.16543	.21703	.727	3523	.6831
	Howell	,	11 years and above	.57057	.26297	.084	0593	1.2004
		6 to 10 years	1 to 5 years	16543	.21703	.727	6831	.3523
			11 years and above	.40514	.26322	.279	2254	1.0357
		11 years and	1 to 5 years	57057	.26297	.084	-1.2004	.0593
		above	6 to 10 years	40514	.26322	.279	-1.0357	.2254
Suppliers	Tukey	1 to 5 years	6 to 10 years	.05253	.27484	.980	5994	.7045
	HSD		11 years and above	.34678	.28560	.447	3307	1.0243
		6 to 10 years	1 to 5 years	05253	.27484	.980	7045	.5994
		11 .	11 years and above	.29426	.28708	.563	3868	.9753
		11 years and above	1 to 5 years	34678	.28560	.447	-1.0243	.3307
	Games-	1 to 5 years	6 to 10 years 6 to 10 years	29426 .05253	.28708	.563	9753 5236	.3868
	Howell	1 to 5 years	11 years and above	.05253	.29782	.479	3697	1.0633
	110 W C11	6 to 10 years	1 to 5 years	05253	.24119	.974	6287	.5236
		o to 10 years	11 years and above	.29426	.32684	.642	4882	1.0767
		11 years and	1 to 5 years	34678	.29782	.479	-1.0633	.3697
		above	6 to 10 years	29426	.32684	.642	-1.0767	.4882
			5 to 10 jours	27720	.5200-T	.072	1.0/0/	.7002

(Continued)

Continued)	T. 1	1	() 10	00001	25426	022	5106	(044
Communities	Tukey HSD	1 to 5 years	6 to 10 years	.09091	.25436	.932	5126	.6944
	пър	6 . 10	11 years and above	.71651*	.26421	.021	.0897	1.3433
		6 to 10 years	1 to 5 years	09091	.25436	.932	6944	.5126
			11 years and above	.62560	.26421	.051	0012	1.2524
		11 years and	1 to 5 years	71651*	.26421	.021	-1.3433	0897
		above	6 to 10 years	62560	.26421	.051	-1.2524	.0012
	Games-	1 to 5 years	6 to 10 years	.09091	.23027	.918	4583	.6401
	Howell		11 years and above	.71651*	.28322	.036	.0381	1.3949
		6 to 10 years	1 to 5 years	09091	.23027	.918	6401	.4583
			11 years and above	.62560	.28135	.074	0485	1.2997
		11 years and	1 to 5 years	71651*	.28322	.036	-1.3949	0381
		above	6 to 10 years	62560	.28135	.074	-1.2997	.0485
Environment	Tukey	1 to 5 years	6 to 10 years	09091	.29234	.948	7845	.6026
	HSD		11 years and above	.98565*	.30366	.004	.2652	1.7061
		6 to 10 years	1 to 5 years	.09091	.29234	.948	6026	.7845
			11 years and above	1.07656*	.30366	.002	.3561	1.7970
		11 years and	1 to 5 years	98565*	.30366	.004	-1.7061	2652
		above	6 to 10 years	-1.07656*	.30366	.002	-1.7970	3561
	Games-	1 to 5 years	6 to 10 years	09091	.24566	.927	6770	.4952
	Howell	,	11 years and above	.98565*	.34269	.015	.1635	1.8078
		6 to 10 years	1 to 5 years	.09091	.24566	.927	4952	.6770
			11 years and above	1.07656*	.33084	.005	.2811	1.8720
		11 years and	1 to 5 years	98565*	.34269	.015	-1.8078	1635
		above	6 to 10 years	-1.07656*	.33084	.005	-1.8720	2811
Government	Tukev	1 to 5 years	6 to 10 years	.13636	.31689	.903	6154	.8882
	HSD		11 years and above	.97847*	.32916	.010	.1976	1.7594
		6 to 10 years	1 to 5 years	13636	.31689	.903	8882	.6154
		0 10 10 9 0010	11 years and above	.84211*	.32916	.031	.0612	1.6230
		11 years and	1 to 5 years	97847*	.32916	.010	-1.7594	1976
		above	6 to 10 years	84211*	.32916	.031	-1.6230	0612
	Games-	1 to 5 years	6 to 10 years	.13636	.26332	.863	4919	.7646
	Howell	1 to 5 years	11 years and above	.97847*	.36008	.023	.1123	1.8446
	110 11 011	6 to 10 years	1 to 5 years	13636	.26332	.863	7646	.4919
		o to 10 years	11 years and above	.84211	.37364	.070	0546	1.7388
		11 years and	1 to 5 years	97847*	.36008	.023	-1.8446	1123
		above	6 to 10 years	97847	.37364	.023	-1.7388	.0546
Non-Governmental	T1		6 to 10 years	.33562	.30048	.505	3773	1.0486
Organizations (NGOs)	Tukey HSD	1 to 5 years						
Organizations (1400s)	113D	6 to 10 years	11 years and above	1.17344* 33562	.31032	.001	.4372	1.9097
		6 to 10 years	1 to 5 years		.30048	.505	-1.0486	.3773
			11 years and above	.83782*	.31198	.022	.0976	1.5781
		11 years and	1 to 5 years	-1.17344*	.31032	.001	-1.9097	4372
		above	6 to 10 years	83782*	.31198	.022	-1.5781	0976
	Games-	1 to 5 years	6 to 10 years	.33562	.26846	.428	3056	.9768
	Howell		11 years and above	1.17344*	.32095	.002	.4025	1.9444
		6 to 10 years	1 to 5 years	33562	.26846	.428	9768	.3056
			11 years and above	.83782*	.34840	.049	.0040	1.6717
		11 years and	1 to 5 years	-1.17344*	.32095	.002	-1.9444	4025
		above	6 to 10 years	83782 [*]	.34840	.049	-1.6717	0040

(Continued)

Trade Associations	Tukey	1 to 5 years	6 to 10 years	.02273	.29467	.997	6764	.7218
	HSD		11 years and above	.87560*	.30608	.014	.1494	1.6018
		6 to 10 years	1 to 5 years	02273	.29467	.997	7218	.6764
			11 years and above	.85287*	.30608	.017	.1267	1.5790
		11 years and	1 to 5 years	87560*	.30608	.014	-1.6018	1494
	above	6 to 10 years	85287*	.30608	.017	-1.5790	1267	
	Games-	1 to 5 years	6 to 10 years	.02273	.27751	.996	6392	.6846
	Howell		11 years and above	.87560*	.32270	.022	.1037	1.6475
		6 to 10 years	1 to 5 years	02273	.27751	.996	6846	.6392
			11 years and above	.85287*	.31599	.023	.0965	1.6092
		11 years and above	1 to 5 years	87560*	.32270	.022	-1.6475	1037
			6 to 10 years	85287*	.31599	.023	-1.6092	0965

^{*.} The mean difference is significant at the 0.05 level.

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