

**THINK**

**MAKE**

**MEET**

**WORK**

## **Location of creative workplaces**

A quantitative research into the relative importance of location factors  
for creative organization in Amsterdam.

**TALK**

**PLAY**

**CREATE**

**DO**

Master thesis Cultural Economics and Entrepreneurship  
by Vera Lentjes

Erasmus University: Erasmus School of History, Culture and Communication



ERASMUS SCHOOL OF HISTORY, CULTURE AND COMMUNICATION  
DEPARTMENT OF ARTS AND CULTURE STUDIES

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Cultural Economics and Entrepreneurship  
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## **Abstract**

Facilitating, attracting and retaining the creative industries to their cities is a top priority of local governments. Flexible workplaces, temporary locations, creative business complexes, co-working spaces, hubs, incubators and start-up accelerators, offer workplaces more suitable to the flexible and mobile working patterns of the creative professionals. In spite of the ongoing debate on hard vs. soft location factors, knowledge on the location factors for workplace decision by creative organizations is limited. By conducting a quantitative research, this thesis aims to test the relative importance of hard, cluster and soft location factors for creative organization in Amsterdam. In contrast to the expectations, survey results show that the majority of respondents work at home or office buildings. Data analysis of 176 respondents' scores showed significant differences in the relevance of hard, soft and cluster factors. Limited significant results were found in the comparison of workplaces. Social capital and urban location factors are the most dominant factors in determining the decision to locate in Amsterdam. The choice for location within the city, the workplace, is determined by a combination of hard and soft location factors. Creative organizations appreciate the urban characteristics of the greater Amsterdam cluster more than they attach importance to proximity of others in the workplace. When it comes to workplace decisions, economic rationale and practical considerations are dominant. As a result, most of the self-employed creative freelancers in Amsterdam stick to their home offices instead of the flexible and creative workspaces Amsterdam offers.

**Key words:** location decision, creative organizations, location factors, creative clusters, Amsterdam, hard factors, soft factors, cluster, factors, workplace, coworking spaces, home office.

## **Table of Contents**

|   |    |
|---|----|
| <b>1. Introduction</b>                                    | 1  |
| 1.1. Research problem                                     | 1  |
| 1.2. Research aim and research question                   | 2  |
| 1.3. Academic and societal relevance                      | 2  |
| 1.4. Definitions  | 3  |
| 1.5. Research structure                                   | 4  |
| <b>2. Theoretical framework</b>                           | 5  |
| 2.1. Creative industries                                  | 5  |
| 2.2. Clustering concept                                   | 6  |
| 2.2.1. Clustering on national, regional and local level   | 7  |
| 2.2.2. Clustering of the creative industries              | 9  |
| 2.3. The location debate: hard vs. soft location factors  | 10 |
| 2.3.1. Hard location factors                              | 10 |
| 2.3.2. Soft location factors                              | 12 |
| 2.4. Closer inspection of location                        | 14 |
| 2.4.1. Location factors in Amsterdam                      | 14 |
| 2.4.2. Role of socio-cultural and individual demographics | 16 |
| 2.4.3. New places of work                                 | 17 |
| 2.5. Chapter summary                                      | 20 |
| <b>3. Methodology</b>                                     | 22 |
| 3.1. Research design                                      | 22 |
| 3.1.1. General approach                                   | 22 |
| 3.1.2. Unit of analysis                                   | 23 |
| 3.1.3. Hypotheses and operationalization                  | 24 |
| 3.1.4. Survey design                                      | 26 |
| 3.2. Data collection and analysis                         | 26 |
| 3.3. Quality of research                                  | 27 |
| 3.3.1. Quality of respondents                             | 28 |
| 3.3.2. Estimate of the population                         | 29 |

|  |           |
|--|-----------|
| 3.3.3. Reliability of scales                                   | 30        |
| 3.3.4. Validity and reliability                                | 34        |
| 3.3.5. General limitations                                     | 35        |
| 3.4. Chapter summary   | 35        |
| <b>4. Results</b>  | <b>36</b> |
| 4.1. Descriptive statistics                                    | 36        |
| 4.1.1. Demographic characteristics                             | 36        |
| 4.1.2. Characteristics of the represented organization:        | 38        |
| 4.1.3. Location  | 40        |
| 4.2. Research results for individual items                     | 43        |
| 4.2.1. Research results for Amsterdam                          | 43        |
| 4.2.2. Research results for workplace                          | 44        |
| 4.2.3. Research results for workplace benefits                 | 45        |
| 4.3. Confronting the factors                                   | 46        |
| 4.3.1. Location factors for Amsterdam                          | 46        |
| 4.3.2. Location factors for workplace                          | 46        |
| 4.3.3. Controlling for demographics                            | 49        |
| 4.4. Comparing workplaces                                      | 50        |
| 4.4.1. Working at home or home office                          | 50        |
| 4.4.2. Working from office building or other business location | 52        |
| 4.4.3. Creative and flexible workplaces                        | 54        |
| 4.4. Chapter summary   | 55        |
| <b>5. Conclusion</b>   | <b>56</b> |
| <b>References</b>  | <b>58</b> |
| <b>Appendices</b>  | <b>63</b> |
| 1. SBI-codes CI  | 63        |
| 2. Overview of variables                                       | 64        |
| 3. Survey  | 65        |
| 4. Factor and reliability analysis                             | 71        |

|  |     |
|--|-----|
| 5. Descriptive statistics                            | 78  |
| 6. Statistics of individual indicators               | 84  |
| 7. Confronting the factors: paired-samples t-tests   | 92  |
| 8. Controlling for demographics: One-Way ANOVA       | 95  |
| 9. Comparing workspaces: independent-samples t-tests | 102 |

# 1. Introduction

## 1.1. Research problem

After the factory system and Fordist mass-production, a new episode of capitalist development has emerged (Scott, 2011). Addressed to by a variety of terms (post-fordism, new economy, knowledge economy, creative economy and cognitive-cultural economy), this new economic paradigm presents a shift towards a knowledge-based economic system in which creative workers are primarily paid through their intellectual property (Nakamura, 2000). Globalization, outsourcing and fragmentation of production created room for organizations to focus on knowledge-based activities, such as design, marketing and communication (Scott, 2008). Labour processes increasingly depend on intellectual and affective human assets (Scott, 2008). This new economic activity is characterized by the creation of creative, symbolic and heterogeneous products. Creative industries (CI) are at the centre of this new economy. In today's economy, CI produce a large share of economic output and, through their innovative potential provide a source of urban and economic development through their innovative potential (Scott, 2008; Scott, 2011). In addition, CI are less vulnerable to economic crisis (Romein & Trip, 2011). The creative workforce is highly elastic, flexible and capable to adapt or (re)start businesses since it is made up of micro-entrepreneurs and freelancers with flexible working patterns that allow them to combine several jobs (Romein & Trip, 2011). Governments are searching for the right set of conditions to attract and retain the CI in order to enhance the competitive performance of their economic activity (Musterd et al., 2007; Musterd & Gritsai, 2010).

Yet, researchers of location conditions are entangled in an ongoing debate between the supporters of classical location theory and the advocates of the creative class theory. The first state that economic aspects are the main determinants of location, while the latter emphasize the importance of cultural and social amenities of a city. With an abundance of empirical research, both strands of research have made many attempts to prove their case. So far, the debate is still unsettled. Furthermore, despite of the changing working patterns of creative professionals, research on the role of location factors for workplace decision is limited. In recent years, several new types of creative workplaces have been introduced in the city. Flexible workplaces, temporary locations, co-working spaces, hubs, incubators and start-up accelerators, offer creative workers workplace options that are more suitable to their work patterns (Moriset, 2014). CI consist of a relatively large number of small and medium sized organizations, a lot of them being non-employer firms or self-employed freelancers (Romein & Trip, 2011).

Project-based work, flexible employment and multiple job holding characterize their work. Moreover, communication technologies increase the flexible working arrangement. Creative workers live and work anywhere (Moriset, 2014). Though many of the small creative business start from the dining table, the isolation of the home office is not conducive to creative work. New workplaces present opportunities to benefit from social encounters and professional interaction, without having to give up flexibility and freedom. Up to now, this is only an hypothesis. A lack of knowledge about factors influencing the workplace decision leaves a gap in the literature on location factors. To facilitate CI, it is necessary to increase our understanding of location preferences of creative workers on both city scale as for their workplace. Why do creative organizations locate in the city? What factors influence their workplace decision? What is their relative importance?

## **1.2. Research aim and research question**

This thesis aims to fill this gap by empirically testing the relative importance of factors influencing the type of workplace creative organizations choose to operate at. By analysing relevant literature and conducting a cross-sectional research, this thesis aims to answer the question:

- What is the relative importance of hard, cluster and soft location factors for the location decision of creative organizations in Amsterdam?

## **1.3. Academic and societal relevance**

In academic research so far, there has been much attention for CI's location patterns. CI have a particular tendency to cluster. However, economic geographers seem to be unable to come to an agreement on the driving factors influencing the location decision of creative organizations. As a result, the research field is characterized by the ongoing debate between the advocates of hard location factors and soft location factors. Classical location theorists believe that people follow jobs and economic 'hard' factors are the main drivers of location decisions. In contrast, advocates of the people-based perspective, with Richard Florida as pioneer, believe that jobs follow people and 'soft' conditions such as cultural amenities are most important location determinants. This debate resulted in a broad scope of research on spatial patterns of specific industries (Scott, 2005; Wenting, 2011) and clustering studies on several geographical scales, including creative cities (Florida 2002; Drake, 2003; Currid, 2007), creative districts (Lavanga, 2006; Andres & Grésillon, 2011), creative neighbourhoods (Heebels & Van Aalst, 2010) and creative milieus (Hall, 2000; Hall, 2000). However, the importance of



location factors is still ambiguous. <sup>3</sup>The goal of this research is to overcome the geographical boundaries assigned to clusters in existing studies and explores the relation between location decisions for city and for the workplace. An exploration of the relative importance of location factors at different scales offers a new point of view to the opposite sides in the debate. By analysing both the urban cluster and the individual workplace location of creative organizations, this research goes beyond cluster boundaries and relates the different levels on which location decisions are taken. This offers insight in the contradicting results on the importance of location factors so far.

Especially in a small country as the Netherlands, government plays an important role in allocating place to several spatial functions like work. For spatial planning in a city, information on the location preferences of organizations is crucial. The spread of the new economy has created new ways of working. It is not strange to assume that in turn location preferences have also evolved. This thesis tests the assumption of new location preferences of creative industries. The results of this study inform policy makers on these preferences. On local, national and international level, the importance of CI for the economy is supported. The CI are part of the 'top-sector' of the Dutch government and also the European Commission stresses their significance (Braams, 2011). In recent years, the municipality of Amsterdam has tried to arrange creative workplaces suitable for the flexible work patterns of creative professionals by developing intermediary services, supporting private project developments, subsidizing urban cultural planning and putting their vacant buildings to use (Wijn, 2002, Bureau Broedplaatsen, 2012). The result is a diverse supply of different types of workplaces. This research evaluates whether this diversifying policy is still the right focus for CI policy in Amsterdam.

#### **1.4. Definitions**

This research applies the following definitions of key concepts:

- Creative industries;  
The creative industries are industries in which the creation, production and exploitation of symbolic material is most important. The creative industries are divided in three sub-sectors; (i) the arts, (ii) media and entertainment and (iii) creative business services. In the Netherlands, creative industries are classified on the bases of standard industrial classification codes, SBI 2008<sup>1</sup> (Van Oosteren & Teirlink, 2013, p. 10).

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<sup>1</sup> Appendix 1: full list SBI-codes creative industries.

- Creative organizations;  
Creative organizations are defined as businesses with all legal identities registered at the Dutch Chamber of Commerce under an industrial classification code (SBI 2008-code) categorized as creative industries.
- Workplace;  
The workplace is the primary physical space from where the creative organizations carry out their main professional activity, in other words perform their job. The workplace can be both private property and a public space.

### **1.5. Research structure**

This research consists of the following parts. The theoretical framework discusses theoretical and empirical research on the spatial patterns of creative industries, the factors influencing location decision of creative organizations and the (new) places of work. Moreover, it conceptualizes the hard, cluster and soft location factors for the city and the workplace. Chapter three, the methodology, describes the general approach, research design, method of data collection and data analysis of this research. In addition, this chapter evaluates the quality of the research and discusses the general limitations. Chapter 4 presents the results of the conducted cross-sectional survey. The last chapter summarizes the findings of this study, answers the research question and gives suggestions for further research. A full report of the statistical analysis performed can be found in the appendix as well as the survey questions.

## **2. Theoretical framework**

Debates about the essential conditions for the development of economic activity are by no means new. The study of spatial economics dates back to an early German tradition of location theorist known for contributions as Von Thünen's study on land use patterns, and the location analysis of Weber (Scott, 2000). Due to changing economic conditions, the importance of geographic location and context gained renewed attention by economic geographers. This chapter presents an overview of the literature on location behaviour of CI. The first section introduces the creative industries and creative work. Next, the second section outlines the development of the cluster concept and relates it to the CI. Subsequently, the third section describes the contrasting views on the factors determining the location decision of creative organizations. The fourth section deals with changing working patterns of creative organizations and discusses the evolvement of the workplace.

### **2.1. Creative industries**

Cultural and creative industries represent sectors that 'produce outputs whose subjective meaning [...] is high in comparison to their utilitarian purpose' (Scott, 2008, p. 84). According to Richard Caves, CI include 'book and magazine publishing, the visual arts (painting, sculpture), the performing arts (theatre, opera, concerts, dance), sound recordings, cinema and TV films, even fashion and toys and games' (Caves, 2000, p.1). The CI are considered to be affiliated for their common economic features (Towse, 2010). Novelty and differentiation of creative goods lead to monopolistic competition in the CI (Caves, 2000). The requirement of creative input leads to the prevalence of high sunk costs for original production and low, sometimes zero, marginal costs. For creativity to be a source of income a creative product has to be protected by intellectual property law. In addition, the element of novelty in creative products produces information issues concerning the quality (Caves, 2000). 'Nobody knows' what the reception of the consumer is going to be.

Uncertainty in the CI shapes the work arrangements (Scott, 2008; Lingo & Tepper, 2013; Moriset, 2014). Creative products require a variety of talent and skills (Caves, 2000). CI are strongly fragmented and characterized by small-scale business structures. Creative organizations manage uncertainty through project-based work and flexible short-term employment contracts (Lingo & Tepper, 2013). As a result, creative professionals work multiple jobs to differentiate their skills and secure their income. Autonomy, creativity and 'coolness' attracts creative workers to entrepreneurial labour in the CI, for which, in turn, they have come to accept the high risks associated with this

work (Neff, et al., 2005). The instability makes artists highly involved in self-promotion, reputation building and networking to deal with fluid employment. Networking provides the creative worker with opportunities to show experience and expertise and build on his/her 'portfolio career' (Neff et al., 2005; Scott, 2008; Lingo & Tepper, 2013).

Location plays a vital role in both collective creative processes and individual aesthetic creativity (Drake, 2003). Contrary to what might be expected, globalization, intensified competition and technological advancements have not downplayed the importance of location in economic activity. Instead, the local level qualities are directly involved in knowledge creation. Economically successful environments foster the transfer of tacit knowledge through face-to-face interaction and connect this local knowledge to global codified knowledge (Bathelt et al., 2004). Economies of scale and scope further stimulate the trend of urban agglomeration (Sleutjes, 2013). For creative workers in particular, place attributes produce inspiration, stimuli or motivation for individual aesthetic creativity. Creative workers refer to place, or local communities, as source of learning and knowledge transfer, source of visual raw material, providing workers with a supportive innovative environment and utilizing locality as product branding (Drake, 2003).

Yet, the relation to physical location is changing. More and more, the workplace has to meet with the requirements of flexible work patterns. The development of communication technologies resulted in the emergence of urban 'lone eagles': knowledge workers that can live and work anywhere (Moriset, 2014, p. 4). In addition, compulsory socializing creates fading boundaries between work and leisure time (Neff et al., 2005). For these 'digital nomads', offices are replaced by flexible work arrangements (Liegl, 2014, p. 163). This practice of mobile working is 'particularly noticeable among urban freelance creative workers such as writers, (graphic) designers, academics, programmers, or public relations professionals' (Liegl, 2014, p. 164). Creative freelancers 'use nomadic patterns and mobility as resources to shape, stimulate, and organize their work' (Liegl, 2014, p. 180).

## **2.2. Clustering concept**

What do we know about the location patterns of CI? In economic geographic research, the CI have been frequently linked to the concept of clusters (Lazzeretti, Boix & Capone, 2009). Geographic concentration of trade and industries is a historically well-known phenomenon (Porter, 2000). Such agglomerations are referred to as clusters. Clusters are defined as 'geographic concentrations of interconnected companies, specialized suppliers, service providers, firms in related industries, and associated institutions (e.g.,

universities, standards agencies, trade associations) in a particular field that compete but also cooperate' (Porter, 2000, p. 15). Rich traditions of scholars from both economics and management have sought to understand the reasons for such clustering of economic activity (McCann & Folta, 2008). The following section further explains the concept and motivations of industrial clustering. In addition, it explains the specific tendency of creative industries to show these clustering patterns.

### **2.2.1. Clustering on national, regional and local level**

The research field broadly distinguishes between two types of agglomerations; agglomeration of related firms and clustering of diverse firms. Relatedness is explained as referring to both connected industries (i.e. firms that produce goods that are close substitutes) and linked technologies (i.e. related underlying technology but with various seemingly unrelated applications) (McCann & Folta, 2008). Related firms that co-locate benefit from externalities created by specialization of the area. Cluster of unrelated firms on the other hand, benefit from cross-fertilization and generation of new ideas, and the portfolio effect, which implies that a varied product base minimizes the economic vulnerability (McCann & Folta, 2008). Both types of agglomeration yield different economic benefits referred to as 'agglomeration economies'.

Marshall outlines four forms of agglomeration economies resulting from co-location; specialized labour pool, specialized resources, transfer of knowledge and increase in demand (McCann & Folta, 2008). He argues that co-location of firms with a similar knowledge base offers access to a specialized and skilled labour pool. It increases the workers willingness to invest in industry specific skills, reduces the workers risk of unemployment in that area and minimizes the need for retraining of workers. Second, co-location provides a sufficient local demand for specialized services and minimizes the transport costs for specialized resources. Third, agglomerations facilitate the transfer of (tacit) knowledge between firms by offering the opportunity for face-to-face contact. Lastly, Marshall explains that clustering makes search for products easier and boost consumer demand (McCann & Folta, 2008).

Porter (2000) has extended Marshall's work by developing the cluster concept. According to Porter (2000), location affects a firm's competitive advantage by influencing its productivity growth. Porter (2000) outlines four major environmental factors that enhance productivity and explain the existence of clusters: (i) factors input conditions, (ii) context for firm strategy and rivalry, (iii) demand conditions and (iv) related and supporting industries. Factor inputs include all sorts of resources (natural, human, capital) and infrastructures (physical, legal, communication) that are more

efficiently organized in clusters. Second, a cluster provides context for local rivalry by creating rules, incentives and norms for competition (Porter, 2000). Third, clusters of linked industries have an amplifying effect on consumer demand. Lastly, co-location pushes productivity by applying pressure to innovate and upgrade (Porter, 2000).

Nevertheless, the cluster concept has been criticized for its lack of clear defined boundaries. To which scale can we speak of spatial concentration? The boundaries that Porter (2000, p. 16) proposes as 'the geographical scope of a cluster by the distance over which the efficiencies occur' are impossible to empirically test. Scale is a sensitive matter in determining a cluster. Economic activity of CI can be highly concentrated in a specific geographical location, but the labour intensive activities cannot exist without the supply of skilled professionals in the larger geographical area (Musterd & Gritsai, 2010). Thus, strongly concentrated small scale clusters of economic activity still depend on their embeddedness in larger cities. In addition, clustering takes place in both small towns and large urban areas. Studies on the systematic differences in structure are lacking.

To fill this gap, Lorenzen and Frederiksen (2008) studied the differences between small town clusters and the mosaic of interconnected clusters in urban areas. The authors outline two basic forces behind geographical clustering: localization and urbanization economies. Localization economies are positive externalities resulting from area specialization. The specific space in which these firms co-locate is subordinate. Localization economies include flexible specialization, incremental innovation, efficiency, quality of labour and supply of specialized institutions. Urbanization economies indicate the positive externalities enjoyed by firms in an urban, or a city, environment (Lorenzon & Frederiksen, 2008). The specific place of co-location is key for the occurrence of these externalities.

A central feature of urban places is the presence of a wide array of diverse firms at small scale (McCann & Folta, 2008). Temporary collaborations and coordination among different knowledge bases increases product novelty. Profound communication between unrelated knowledge bases sparks radical innovation. Also, the broad and diverse labour market created by a combination of industries facilitates the spread of ideas. In addition, high-education institutions in urban areas give organizations the opportunity to broaden and deepen knowledge and skills. Moreover, the diversity of other institutions in large urban areas (i.e. airports, housing, cultural facilities) supports the process of mutual influence, the creation of new knowledge and innovation (Lorenzen & Frederiksen, 2008). Large world cities, such as New York, London and Paris, have the capacity to support both specialization and diversity. It is however the

interaction between localization and urbanization economies that determines how well a city can foster these clusters. CI have a particular preference for clustering in these urban environments (Wenting, 2011).

### **2.2.2. Clustering of the creative industries**

Mappings of CI show that the city is the key spatial level where creative activity occurs (O'Connor, 2004). CI are primarily distributed in inner cities, prefer venues in old industrial building, are found in close proximity to knowledge institutions and, most importantly, are rooted in local urban socio-cultural context (He & Gebhard, 2014). But why do CI prefer to locate in cities?

Firstly, cities serve as a breeding ground for CI. Based on historical examination, Hall (2000) concludes that cities always have been centres of creativity and innovation because of the socio-cultural environment. Creative cities are characterized by rapid economic and social transformation, a relatively wealthy community and a high-culture minority that caters to the tastes of this minority. Together, these factors created a place where outsiders could easily enter, but also provided them with something to react to. This general state of manners and mind fosters 'moral temperature that allowed a particular kind of talent to develop in one place at one time' (Hall, 2000, p. 643). Csikszentmihalyi (1997) also underlines the importance of socio-cultural context for creative activity to take place. Creativity only results in innovation when a person's novelty is judged as creative, picked-up by the environment, implemented in current routines and eventually lead to new practice.

Second, the social context of production in cities helps CI to overcome information asymmetries caused by quality and demand uncertainty. Intermediaries or gatekeepers with specific knowledge of the industry help select the products (Lavanga, 2012). Intermediaries and producers find each other in scenes located in big clusters of aesthetic expression (Hauge & Hracs, 2010). According to Currid (2007) being in the same space is instrumental. Her research on the New York fashion scene showed how the social infrastructure creates nodes of creative exchange that facilitate the horizontal ways in which these industries operate. Social and informal connections facilitate dissemination of ideas, distribution of jobs and collaborations among industries (Currid, 2007; Hauge, Malmberg & Power, 2009). Furthermore, spatial origins or the symbolic value of the city, contributes to the symbolic meaning of products. Cities are used as a brand for differentiation of locally produced products (Scott, 2005; Hauge, Malmberg & Power, 2009; Hauge & Hracs, 2010).

Third, cities stimulate the innovation dynamics of CI. Scott (2001) explains the

preference of CI for urban areas by pointing to cities capability to foster high levels of human input by accommodating dense transactional flows of information, goods and services and the innovative qualities derived from various, accidental, small, day-to-day encounters (Scott, 2008). Since competition in CI is based on the ability to create new consumer experiences, there is a high need for constant variety, novelty and radical innovation (Lorenzen & Frederiksen, 2008). The focus on innovation, and the innovative power of 'related variety' (e.g. being close to a variation of somewhat related industries), drives CI to large urban areas. CI are 'highly sensitive to embedded cultural knowledge' (O'Connor, 2004, p. 2) and benefit from an 'active process of cross-fertilization and cognitive relationships among different industries' (Lazzeretti, Boix & Capone, 2009, p. 4). Creative clusters benefit from the transfer of tacit knowledge, skills and know-how, which results in a high degree of learning and innovation (Scott, 2000; O'Connor, 2004; Lorenzen & Frederiksen, 2008; Lazzeretti, Boix & Capone, 2009).

Cities give rise to creative milieus that help form identity and credibility for CI and provide them with the proximity necessary for transfer of codified and tacit knowledge. For that reason, CI do not only have a natural tendency to cluster, they preferably cluster in cities and mostly favour large global cities. CI cluster in order to facilitate product differentiation through variety creation. CI cluster in cities because urbanization economies, proximity to unrelated knowledge bases, stimulate product differentiation through novelty. Moreover, CI show a disposition for large global cities because the combination of localization and urbanization economies present the perfect circumstances for radical innovation (Lorenzen & Frederiksen, 2008).

### **2.3. The location debate: hard vs. soft location factors**

The previous section already described several factors that influence spatial clustering patterns of creative organizations. The debate on the relative importance of these factors put economic aspects and social/cultural factors opposite to each other. The following section explains the origins of both theories and gives an account of the current perspective on location factors.

#### **2.3.1. Hard location factors**

Classical location theory identifies economic aspects, or hard factors, as main determinants of location choice (Sleutjes, 2013). Hard factors include accessibility, transport/technical infrastructure, public transport facilities, availability of resources (work, labour force etc.), availability and price level of office space, tax regime, and other regulations and laws such as subsidies (Van Noort & Reijmer, 1999; Musterd et al., 2007;



Bontje, Pethe & Von Fintel, 2013; Musterd & Kovács, 2013). Classical location theory aims to determine the optimal profit maximizing location for firms, i.e. the location where the difference between total revenue and total costs is maximized (Pellenbarg et al., 2002). Hard factors have a direct impact upon the potential cost-benefit balance of firms. For example, the extent and quality of infrastructure are regarded as main drivers of location behaviour. Accessibility and communication provide opportunities for cost saving on transport, supply and additional services and they are essential to the development of economies of scale and scope. The availability of capital and labour equip firms with means to compete and maximize profit. The institutional environment, tax regimes and other laws and regulations can have direct effects on costs and profit. To determine the optimal profit maximizing location, classical location theory assumes that the location decision maker is a well-informed, rational individual, operating in a market characterized by perfect competition, and functioning in a static environment in which costs and prices are given (Van Noort & Reijmer, 1999; Pellenbarg et al, 2002; Sleutjes, 2013). Firms presumably have perfect information, are able to fully process the information, are perfectly mobile and do not encounter any entry or exit barriers to the market.

Research shows that not all hard factors are equally important for every creative organization. Bontje, Pethe and Von Fintel (2008) show strong differences in drivers of location behaviour among the different branches of creative activity. For example, the film industry is largely dependent on hard conditions, such as the public social infrastructure of film funds and educational institutions. Web designers on the other hand rely on the digital communication infrastructure and thus are less tied to a specific location (Bontje, Pethe & Von Fintel, 2008). Judgement of hard factors even varies between different activities in one sector. For instance, non-commercial film companies rely on public social infrastructure with film funds, while for commercial film companies this infrastructure has no direct influence (Bontje, Pethe & Von Finel, 2008).

Larger cities are generally able to offer a certain level of hard conditions but these conditions differ in quality and are not evenly distributed resulting in unequal positions in economic competition (Musterd & Gritsai, 2010). Recently, scholars have recognized the limitations to solely paying attention to the hard location factors. In association with the emergence of the creative economy, soft location factors are expected to influence location decisions more (Musterd et al., 2007). The main criticism regarding classical location theory is that it does not address personal preferences or the psychological costs and benefits related to the location choice (Pellenbarg et al., 2002). Classical location theory is criticized for the assumption that decision makers

have perfect knowledge about future events, which is infeasible. In reality, different interpretations of risk and profit potential will lead to different location decisions. The classical approach ignores the fact that the profit optimizing individual will in practice settle for a satisfying location instead of the perfect location because of the costs of acquiring more information on specific locations (Pellenbarg et al, 2002).

### **2.3.2. Soft location factors**

In recent years, an alternative perspective gained support that explains spatial patterns of economic activity by reviewing the preferences of individual workers. This people-based perspective follows the assumption that individual workers seek locations that meet their specific preferences for high quality of place and presence of cultural amenities (Sleutjes, 2013). Scholars concluded that 'work follows people' and urban growth, thus, can be explained by worker's migration patterns to cities with pleasing cultural amenities (Storper & Scott, 2009). Such cultural amenities are determined as 'soft' location factors, factors that are associated with emotional, cultural, social motivations. Soft factors include urban amenities, urban atmosphere, (visual) attractive residential environment, quality of life, leisure activities, cultural scene and tolerance of alternative lifestyles and ethnic diversity (Musterd et al., 2007; Musterd & Gritsai, 2010; Bontje, Pethe & Von Fintel, 2013). According to several scholars, 'soft' location factors are pivotal in attracting creative people and talent to a specific location.

The most influential scholarly contribution to this people-based perspective on economic geography is Richard Florida. Florida's (2002) core argument is that regional competitive advantage does not rely on cost reduction but is a direct result of cities ability to attract creative people. The 'creative class' refers to both professionals in the CI that are directly active in the production of new ideas and content as a wider circle of talent employed in knowledge extensive industries (Storper & Scott, 2009; Musterd & Gritsai, 2010; Sleutjes, 2013). According to Florida (2002), economic activity follows creative talent, the presence of the creative class spurs economic growth and, therefore, it is crucial to facilitate the conditions they require. Florida (2002) states that the notion of place represents a distinctive feature of the creative worker's identity. The 'quality of place' depends on what is there (build and natural environment), who is there (diverse kind of people) and what is going on (vibrant street life and cultural amenities) (Sleutjes, 2013). To attract the high-educated creative class, a city can enhance the quality of place by securing Florida's 3T's; tolerance, talent and technology (Florida, 2002). Since tolerance is an abstract concept and cannot be observed directly it is measured by an index of diversity composed by the number of artists, gays and non-

native's (Storper & Scott, 2009). Accordingly, large cities include Florida's 3T's in their social atmosphere, the ethnic diversity and the availability of cultural activities (Wenting, 2011).

Other scholars have further explored the importance of soft location factors to attract creative professionals to a certain location. According to the 'Consumer City' theory of Glaeser, Kolko and Saiz (2001), urban growth largely depends on the cities ability to attract high skilled workers by offering the right amenities. Urban amenities include a rich variety of consumer goods (restaurants, theatres, etc.), attractive aesthetics, high quality public services (good schools, low crime levels) and good public infrastructure (speed and ease to move around). Performance of cities thus depends on consumption instead of production (Sleutjes, 2013). The 'entertainment machine theory' argues that consumption of urban amenities directly drives urban growth (Clark et al., 2002). In this case, the more literal interpretation of urban amenities include all urban attractions, such as parks, galleries, museums, signatures buildings, restaurants, sport facilities, shopping centres and so on (Clark et al., 2002; Storper & Scott, 2009; Sleutjes, 2013). The importance of arts and cultural amenities is further supported by Currid's (2007) research into the art, fashion and music industry of New York City. Currid (2007) identifies New York's nightlife and club scene as crucial nodes of exchange for disseminating ideas, valorising goods and distributing jobs and skills that is instrumental for creative careers. It is at these socializing events at cultural places where hanging out translates into beneficial economic outcomes. Link to these local cultural scenes provide a source of symbolic value for cultural products (Hauges & Hracs, 2010). In addition, empirical evidence is found that the presence of cultural and historical heritage in cities helps creative groups to find inspiration and like-minded people (Hall, 2000; Lazzeretti, Boix & Capone, 2009). Even the visual qualities of a district effect the location decision. In her research, Smit (2011) concludes that creative entrepreneurs in the Netherlands identify the distinctive visual form of their neighbourhood (e.g. urban design, architecture, waterfronts, parks) significantly important for both their individual work as the firm's performance. Visual attractive locations makes the site inviting for clients, it 'enhances the creative image' of the firm and contributes to the individual creative productivity by inspiring workers (Smit, 2011, p. 179).

Even so, many scholars question the validity of the soft location factor theories. The concept of soft location factors is remarkably vague, difficult to define and the quality of place indicators are prone to subjective measurement (Sleutjes, 2013). Furthermore, Florida's creative class theory has been targeted with a myriad of

criticisms on its problematic weak empirical basis and far from convincing research evidence for his soft location factors (Storper & Scott, 2009; Musterd & Gritsai, 2010; Sleutjes, 2013). Hall (2004) judges the apparent ease with which Florida suggests a 'cool' city can be created. As also Musterd and Gritsai (2010) underline, building the necessary conditions for innovative and creative cities is a 'sometimes agonisingly slow' process (Hall, 2004, p. 257). Furthermore, there is little evidence that the rise of the creative class is a long-term trend and can possibly be regarded a 'hype' (Musterd et al., 2007).

In general, the people-based theories are criticized for neglecting the role of employment opportunities in location decisions (Sleutjes, 2013). Research by Storper and Scott (2009) illustrates that stagnant growth is not caused by a shortage of high skilled people but by a lack of job opportunities. The authors state that the creative class have 'invested considerable resources and time in acquiring know-how, skills and qualifications' and for that reason are unwilling to 'dissipate their investments [...] by moving to places where their personal assets are systematically at risk or undervalued in the local job market' (Storper & Scott, 2009, p. 16). It seems that location decisions are still mainly driven by cost elements. Soft location, and quality of life, factors play a secondary role and are only considered after the first hard criteria of the organization are met (Sleutjes, 2013). The work population is primarily focussed on attractive business locations. Only when retired, soft locations gain significance (Chen and Rosenthal, 2008).

## **2.4. Closer inspection of location**

Empirical research on location factors has not provided a conclusive answer on the hard vs. soft factor debate. It seems that one or the other does not determine the location decision. To gain insight in the location preferences of creative organizations, the relative importance of the location factors needs to be studied.

### **2.4.1. Location factors in Amsterdam**

Recently, the *Accommodating Creative Knowledge (ACRE)* project aimed to assess the conditions that can create and stimulate the development of CI in 13 European city regions, including Amsterdam, Barcelona, Birmingham, Budapest, Dublin, Helsinki, Leipzig, Milan, Munich, Poznan, Riga, Sofia and Toulouse. The research project conducted a research on the crucial conditions for settlement for knowledge workers (e.g. graduates, employees, managers and transnational migrants). As part of the project, research was conducted on the relative importance of location factors. The project

produced two important outcomes. First, social capital (e.g. personal networks and life trajectories) is a crucial factor in the process of making location decisions (Musterd & Gritsai, 2010; Sleutjes, 2013). Firms do not operate in isolation but are interconnected through relationships with other actors (Grabher, 2002). Strong ties to family and friends and weak ties such as business contacts lead to the sharing of knowledge and resources (Bathelt et al., 2004; Sleutjes, 2013). Musterd and Gritsai (2010) point out that in almost all European cities studied individual connections or trajectories are mentioned as the most important conditions. Location behaviour of both employees and entrepreneurs is for a large part driven by their 'individual trajectories', such as the location of family, place of birth, place of study and proximity to friends (Musterd & Murie, 2010). Almost half of the respondents in the ACRE-project still resided in their place of birth (Musterd & Murie, 2010). Second, the ACRE-project concludes that after social capital, hard economic factors, especially job availability, are the main drivers of location decisions in Europe (Musterd and Gritsai, 2010). Soft location factors alone do not motivate knowledge workers to settle at a specific place. In contrast, personal trajectories and the availability of jobs drive location decisions. This is in line with the argument of Storper and Scott (2009) that attention for cultural amenities only comes after the prime interest of employment opportunities.

Interestingly, 'Amsterdam showed the highest scores on soft conditions as being relevant for attracting creative and knowledge' (Musterd & Gritsai, 2010, p. 55). This result did not vary among respondents born in the city, respondents who studied in Amsterdam and respondents that moved to Amsterdam which indicates that individual trajectories do not effect the relative importance of social factors (Musterd & Gritsai, 2010). However, the three surveyed groups (e.g. creative workers, managers of creative organizations and transnational migrants) mentioned different soft factors as important. Creative workers mentioned cultural amenities, managers assigned importance to the quality of life and the diversity of the city and transnational migrants where attracted to the widespread use of English language and the historical cityscape of Amsterdam (Pethe, Bontje & Pelzer, 2009). Musterd and Gritsai (2010) explain this by the strong historical image of Amsterdam and the positive branding of the city. Especially small entrepreneurs described the cultural scene as important for their life and work as it contributes 'to their urban lifestyle' (Pethe, Bontje & Pelzer, 2009, p.19). Bontje, Pethe and Von Fintel (2008) performed a research specifically focussed on identifying the decisive location factors from the perspective of the managers of creative organizations in Amsterdam. According to the managers, the distinctive architecture of the city centre of Amsterdam also provides creative workers with inspiration and can be

used as a reputation tool. Nevertheless, the managers did not find quality of place a decisive factor for their location decisions (Bontje et al., 2008). Or as Pethe, Bontje and Pelzer (2009, p. 17) state 'managers clearly separated their personal appreciation of diversity and tolerance from the company's needs'. In contrast, results show that managers highly value hard location factors. Accessibility of the location was reviewed as important to minimize travel time for both employees and clients. Next, higher educational institutions play a role in attracting future managers and providing labour force. Social infrastructure is not seen as a decisive factor for managers to locate in Amsterdam. Tax and subsidies were not perceived as directly important for manager's location decision. Appropriate office space for an acceptable price, on the other hand, is important and often hard to come by in the rather expensive real estate market of Amsterdam.

Overall it can be concluded that the spatiality of hard and soft factors is complex. 'Soft and hard factors have different effects in different parts of the region and at different geographical scales' (Bontje, Pethe & Rühmann, 2008, p. 52). Hard and soft location factors can be of different relative importance for different locations (e.g. inner-city locations, suburban locations) and at different geographical scales (e.g. region, city, physical location). Furthermore, it is highly possible that demographic variables and organization characteristics play a key role in the formation of a location decision.

#### **2.4.2. Role of socio-cultural and individual demographics**

The individual reports of the ACRE-project show that the homogeneous creative worker does not exist. 'Creative knowledge workers must not be conceived as an unified social entity or class, but as a heterogeneous group with distinctive social and gender differences' (Bontje, Pethe & Rühmann, 2008, p. 33). As a result, location decision, and the factors that influence this decision, is subject to the socio-demographic background, the location and the duration of the residence (Bontje, Pethe & Rühmann, 2008). The weight creative workers attach to location factors depends on demographic variables such as age, income, gender, education and lifestyle (Pethe, Bontje & Pelzer, 2009). Nevertheless, knowledge is lacking on the strength and the direction of the effect of socio-demographic variables.

Bontje, Pethe and Rühman (2008) found that demographic variables had hardly any effect on the importance of soft factors. In contrast, Hansen and Niedomysl (2009) found that soft location factors become more important with age. Their research on the migration patterns of the Swedish creative class found a migration pattern away from the inner cities to suburban areas while aging. The authors argue that young people,

motivated by job opportunities, move to the city and older people, after becoming part of the creative class, move away to more quiet locations (Hansen and Niedomysl, 2009; Musterd & Gritsai, 2010). In another study, Niedomysl and Hansen (2010) tested the importance of jobs versus amenities controlling for several socio-demographic variables. Highly educated people gave significantly more importance to cultural and entertainment facilities than respondents with lower levels of education. Compared to other groups, highly educated people also value work and career opportunities more. Work and career opportunities are valued less by women. Young people value cultural and entertainment facilities highest, with a steadily decline for older age groups. Also, the importance of work and career opportunities decline as age increases.

Specific demographic variables for the location choice of organizations are firm size, life cycle and social embeddedness. Location decisions of small and self-employed firms are influenced by their need for personal contacts. Small organizations depend on social relationships to gain partners and clients (Pethe, Bontje & Pezler, 2009). In addition, office space is less important for single-person/small sized firms. Pethe, Bontje and Pelzer (2009, p.8) explained small size firms as 'more flexible' and 'do not necessarily need office space'. Instead, they work from their home and use public spaces (e.g. cafes) for meetings with clients or partners. Co-location of home and office also limits commute time which offers creative workers a way of dealing with the long working hours typical for creative workers (Bontje et al., 2008). The stage in the industry life cycle determines the benefits a firm derives from being located in a cluster. Benefits from local specialization steadily increase while industries mature (Neffke, 2009). The advantages of local diversity, on the other hand, mainly have a beneficial effect on start-up industries, and become insignificant, or even negative, for mature industries. In other words, 'with increasing levels of maturity, industries experience rising benefits of intra-industry spillovers, but declining inter-industry spillovers' (Neffke, 2009, p. 99). According to Neffke (2009), this can be explained by the level of local embeddedness that mature industries have reached which makes them vulnerable to the lacking local focus of diversified cities.

#### **2.4.3. New places of work**

Until this point, the main focus has been on location factors influencing the decision to locate in a specific city. Martens (2011), however, focuses on the individual scale of locality: the physical workplace. He argues that the physical workplace can be a dominant instrument for firms to support their strategy and improve performance, processes and people in the organization by cost saving, risk control, image building,

supporting general work processes and communication, facilitating organisational culture, enhancing employee satisfaction and providing flexibility to the organization. Even more, workplace can make a significant contribution to the creative performance of the organization. Literature identifies space as instrumental in facilitating the creative process, stimulating creative interaction, supporting the personal qualities for creativity and providing a creative environment (Martens, 2011). 'Physical space must support the people and be flexible enough to accommodate expansion, as well as the eventual contraction and the change in the nature of interaction' (Martens, 2011, p. 68). Similar, Brown and O'Hara (2003, p. 7) state that 'constraints of the place impact on the kind of work activities that can be usefully carried out there'. Boutellier, Ullman, Schreiber and Naef (2008) argue that office layout influences the quality of communication within a workplace. Creativity flourishes in an environment that welcomes new ideas. A creative workplace can physically reflect these socio-psychological dimensions (Martens, 2011). Furthermore, design of a workplace can influence individual motivation and the transfer of knowledge and skills (Drake, 2003; Martens, 2011; Liegl, 2014).

Still, technological development of mobile devices has made work less bound to place. Together with a steady rise in self-employment and non-employer firms (Spinuzzi, 2012; Liegl, 2014), this led a vast majority of the workforce to demonstrate mobile, or nomadic, working patterns. More people are working alone (Spinuzzi, 2012). The development seems to have spread beyond mobile workers that work 'on the move' because their job requires it (Liegl, 2014). Mobile work can be observed among people whose work only requires a low level of mobility. One might even go so far to say that this nonstandard form of employment has become 'commonplace within a highly individualised labour market in which urban professionals work as a casualised, project-based and freelance workforce' (Gandini, 2015). Nomadic work patterns do not seem a result of the lack of a fixed workplace. Rather, nomadic workers show a reservation towards fixity.

Until recently, the most obvious workplace option was an office building. An office building gives you a legitimate office address, a suitable place to receive clients, office equipment and other complementary services including secretarial and the like. On the downside, office buildings are often impersonal, do not foster a lot of interaction and are often pricey (DeGuzmann & Tang, 2011). For that reason, the second best option for self-employed professionals is the home office. In the comfort of their own homes, creative freelancers benefited from high levels of flexibility, minimal travel times, reduced costs and higher productivity (DeGuzmann & Tang, 2011). However, despite of the benefits, home workers often spend a lot of time in isolation and lack informal



communication. The effects even go beyond business-related issues, as work is a 'key determinant of social inclusion' and 'an important part of social and personal status' (Malecki & Moriset, 2008, p. 159). To overcome the isolation, creative workers leave their house to work at a café or other public space, but these workplaces offer minimal security, no office equipment, social disruption and logistical problems (DeGuzmann & Tang, 2011). What creative workers are actually looking for is a 'third place', a place between working from an office, that conflicts with values of independence and flexibility, and working from home, which is seen as lonely and isolated.

Newly introduced types of workspaces offer viable solutions to the requirements of flexibility, social interaction and low prices. Brown and O'Hara (2003) underline that mobile workers are highly involved in the selection of the places in which they work and show a particular concern for the people in that place. Creative businesses complexes have been developed to stimulate the 'unplanned learning' among creative workers. However, these locations still have a high amount of fixity, are often expensive and supply is scarce (Bureau Broedplaatsen, 2012). Fostered by cheap rents, short leases and few constraints in maintenance, temporary uses in abandoned industrial buildings in large cities provide opportunities for new places of work (Andres & Grésillon, 2011; Andres, 2012). In addition, these locations offer flexible usage and room for experimentation (Wijn, 2012). The presence of creative professionals as such locations stimulates co-creation. However, derelict sites are often located in more rural areas and operate in some distance from the urban areas.

Coworking spaces offer a workspace at a central urban location, with high levels of functionality, flexibility and interaction with others (Spinuzzi, 2012). Coworking spaces are 'shared workplaces utilised by different sorts of knowledge professionals, mostly freelancers, working in various degrees of specialisation in the vast domain of the knowledge industry' (Gandini, 2015, p. 194). Gandini (2015) points out that the essential motivation to work at a coworking space is not business-oriented. Coworkers want to be part of a community and seek social relations with other members. However, since social relations function as main drivers of productivity, working at a coworking space can also increase profit and business turnover 'through managerial cultivation of social relations' (Gandini, 2015, p. 197). Coworking spaces provide interaction benefits that most new workspaces lack and which are especially relevant for the nomadic creative worker. Proximity to other coworkers offered them opportunities for social interaction, feedback, motivation, learning, partnerships, sharing facilities, low prices and work opportunities (DeGuzmann & Tang, 2011; Spinuzzi, 2012). Coworking spaces come in different forms such as hubs, incubators and start-up accelerators.

## 2.5. Chapter summary

Location plays a vital role in both collective social creative processes as individual aesthetic creativity. In economic geographic research, the creative industries have increasingly been linked to the concept of clusters. Clusters provide social context to the production of creative goods, help overcome information asymmetries, provide proximity to diverse and unrelated knowledge bases and stimulate variety, novelty and radical innovation. Even so, the cluster concept is criticized for its lack of boundaries, its unawareness of the environment and its negligence to take into account the specific features of the location.

Scholars have long been trying to establish the underlying factors important for attracting and retaining creative organizations and talent to certain locations. Still, the literature is exceptionally divided. A long tradition of classical location theory describes economic aspects, or hard factors, to be the main determinants of location choice. Opponents challenge this theory by arguing its lack of acknowledgement of personal preferences. They propose an alternative explanation on the basis of the individual worker's preferences. This strand of research appoints social and cultural, soft, location factors to be the main drivers of location decisions. However, also this viewpoint has met with a myriad of criticism. Most principally, the people-based perspective neglects the role of employment opportunities. In addition, Florida in specific is criticized for the conceptual vagueness and weak empirical basis of his theory. Thus far, the academic literature did not provide a decisive answer to the importance of the location factors for the creative workers location decision. In contrast, the relative importance of factors seems important. A comprehensive study of settlement decisions in 13 European cities has showed that creative workers largely base their decision to locate in a specific city on their individual trajectories and social affiliation with that city. Soft location factors alone do not motivate the location decision. However, in combination with hard location factors, soft location factors are certainly valued.

Little is known about the relative importance of location factors for the workplace decision. Workplace can be instrumental to support organizations general operations and facilitate creative processes. Nevertheless, the creative workers relation to workplace is changing. Nomadic, mobile and flexible working patterns have motivated creative workers to seek for new places to work. To facilitate creative workers, several new workplaces have been established that satisfy different hard, cluster and soft location factors. The following empirical research aims to establish the

relative importance of these factors for the location decision of creative organizations and, in addition, relates this to the decision to locate in the city of Amsterdam.

### **3. Methodology**

This chapter gives an explanation of the chosen methodological approach, the method of data collection and data analysis, and an exploration of the quality of conducted research. The chapter is structured as follows. The first section explains the research design of this study defines and justifies the unit of analysis and introduces the hypotheses. The second section discusses the process of data collection and the method of data analysis. The third section of the methodology evaluates the quality of the research. It gives an estimate of the population, insight in the quality of respondents, discusses the reliability and validity of the research and considers the general limitations of this study. The last section summarizes the main aspects of the methodology.

#### **3.1. Research design**

The aim of this research is to answer the question ‘What is the relative importance of hard, cluster and soft location factors for the location decision of creative organizations in Amsterdam?’. As exhibited in the previous chapter, the abundance of contradictory theory on this topic asks for a deductive research strategy. Therefore, a quantitative research approach is most suitable to achieve the testing objectives. For the execution of the research, the Statistical Bureau of Amsterdam (O+S) kindly allowed the use of their business panel consisting of 2500 business owners located in Amsterdam.

##### **3.1.1. General approach**

Quantitative research follows a deductive process whereby explicitly formulated hypotheses based on existing literature are to be confirmed or rejected on the basis of relevant data. Quantitative research entails the collecting of numerical data to exhibit a relationship between theory and the social reality (Bryman, 2012). In this respect, quantitative research takes an empiristic or positivistic epistemological position. This position implies that knowledge is created through the objective observation and gathering of facts that provide a basis for laws (Bryman, 2012). A crucial principle is that these observations, or the gathering of facts, must be conducted in a way that is value-free. In agreement, quantitative research follows an objectivist ontological approach that explains social phenomena ‘as external facts that are beyond our reach or influence’ (Bryman, 2002, p. 32). The benefits of a quantitative research approach are a higher generalizability due to random statistical sampling, the indirect relationship between the researcher and the subject avoids researcher involvement and prevents bias and the

collection of numerical data demonstrates a clearly ordered system exposing a clear focus. In addition, the ability of the quantitative approach to control for exogenous variables increases the reliability of the study (Carr, 1994).

The quantitative research is carried out in a cross-sectional research design. A cross-sectional design collects data on more than one case at a single point in time in order to 'collect a body of quantitative [...] data in connection with two or more variables [...] which are then examined to detect patterns of association (Bryman, 2002, p. 58). A cross-sectional design creates opportunities to compare several population groups and their results on several variables at once. Therefore, it proves as a suitable strategy to clarify the importance of different location factors. Data will be collected by a questionnaire, which will be discussed in-depth in a later section of this chapter. The collection of the data took place during one period of time, namely April 2015.

### **3.1.2. Unit of analysis**

In this thesis, the unit of analysis are organizations operating in the CI in Amsterdam. A common issue is the lack of a clear definition and classification of the CI. In view of the fact that is widely beyond the scope of this research to review the definition debate in detail, this research sticks to the most used definition of CI in the Netherlands formulated by the Central Bureau of Statistics (CBS). The CBS uses SBI-codes of standard industrial classification to operationalize the definition of CI. Appendix 1 gives an overview of the included SBI-codes. The CBS definition indicates the following three sectors as part of the creative industries (Rutten & Koops, 2014);

- Arts: performing arts, creative arts, other arts and heritage, cultural heritage.
- Media and entertainment: radio and television, press media, film, music, books, publishers and live entertainment.
- Creative business services: design, architecture and communication and information services (advertisement).

The study's spatial limitation to Amsterdam is motivated by the strong concentration of creative employment in the city. With almost 57.000 jobs in 2013, Amsterdam is the central hub for CI in the Netherlands (Rutten & Koops, 2014). Furthermore, the CI account for an essential part of economic activity in the capital city. One out of every ten jobs in Amsterdam is in the CI (Rutten & Koops, 2014). The municipality of Amsterdam is actively involved in attracting and retaining CI to their city. The emergence of CI as a growth sector was the starting point for several local support programmes, with CI as

one of the prioritised sectors, aimed to bring Amsterdam back in the top 5 of European business locations (Bontje & Pethe, 2010). The art factories policy still is one of the main programmes in Amsterdam to help facilitate affordable workplaces for young professional artists and creative and cultural entrepreneurs.

In 2012, the municipality had realized almost 113,000 m<sup>2</sup> of art factories, creating almost 3500 workplaces on more than 50 locations in Amsterdam (Bureau Broedplaatsen, 2012). The first of these art factories have been initiated and funded by the municipality, but currently the development and operation is largely left to external developers such as Urban Resort, Meurkens & Meurkens and Codum. The work of the municipality is limited to facilitating and mediating these processes and awarding grants for renovations. Developers are required to lease 40 percent of the space to artists and the creative workers, at a maximum rent of 59 euro per meter per year. The remaining 60 percent are used to cover the investment (Griffioen, 2014). Additionally, the private real-estate sector is increasingly involved in facilitating the CI of Amsterdam in a fitting manner. The establishment of business accelerators, such as Rockstart and Startup Bootcamp, and coworking spaces, such as Spaces, contribute to the availability of suitable workplaces in Amsterdam (Amsterdam Economic Board, 2014). Together, the high concentration of creative workers and the public-private partnership to facilitate these workers motivate the decision to conduct this research in Amsterdam.

### **3.1.3. Hypotheses and operationalization**

Based on the theoretical exploration in the previous chapter, this study investigates the following hypotheses:

- H1: Hard factors are relatively more important than cluster and soft factors in the location decision for Amsterdam.
- H2: Cluster factors are relatively more important than hard and soft factors in the location decision for workplace.
- H3: Soft factors are relatively more important in location decision for Amsterdam than in the location decision for workplace.
- H4: Hard factors are relatively more important in the location decision for workplace than in the location decision for Amsterdam.

In order to measure the concepts discussed in the theoretical framework, the underlying indicators that make operationalization of the concepts possible need to be clearly formulated (Bryman, 2012). The theoretical framework resulted in three sets of location

factors; hard factors, clusters factors and soft factors. A multiple-indicator measurement of three to four indicators per concept facilitates the measurement of the respondents attitude towards each set of location factors. Table 1 gives an overview of the indicators underlying the concepts of hard, cluster and soft location factors. The location factors are the independent variables in this research. Additional independent variables are the benefits respondents experience at their location. The study measures the effect of these factors on the location decision to settle in Amsterdam, dependent variable.

Table 1: Multiple-indicators for hard, cluster and soft location factors.

|                        | <b>Amsterdam</b>  | <b>Workspace</b>   |
|------------------------|---|--|
| <b>Hard factors</b>    | <ul style="list-style-type: none"> <li>• Economic policy of the municipality, subsidies and tax breaks.</li> <li>• Accessibility and infrastructure.</li> <li>• Minimizing transport, labour and supplier costs.</li> </ul>   | <ul style="list-style-type: none"> <li>• Price or rent.</li> <li>• Flexibility of lease.</li> <li>• Flexibility of use.</li> </ul>   |
| <b>Cluster factors</b> | <ul style="list-style-type: none"> <li>• Knowledge exchange with consumers, competitors and strategic organizations.</li> <li>• Access to specialized resources, supply and complementary services.</li> <li>• Proximity to labour market and educational institutions with potential employees.</li> </ul> | <ul style="list-style-type: none"> <li>• Access to information and knowledge from others.</li> <li>• The ability to share facilities.</li> <li>• Collaboration and professional partnerships.</li> <li>• Professional interaction to get feedback or build a network.</li> </ul> |
| <b>Soft factors</b>    | <ul style="list-style-type: none"> <li>• Presence of personal, social and family contacts in the city.</li> <li>• The image of the city.</li> <li>• Presence of cultural facilities and activities.</li> <li>• Tolerant attitude for ethnic, cultural and lifestyle diversity.</li> </ul>                   | <ul style="list-style-type: none"> <li>• Inspiring environment.</li> <li>• Representative and professional appearance of site.</li> <li>• Social interaction with diverse type of workers.</li> </ul>  |

Next, a set of control variables are measured in the survey, including location (zip code), type of location, type of contract, date of location at current workplace, number of relocations, sector and main activity. To complement the control variables, secondary data on the demographics of panel members was obtained from O+S. This will be further explained in the section on data collection. Demographic variables acquired through panel data include age and gender of the respondents, working hours per week, number of employees of the organization and date of organizations' settlement in Amsterdam. An overview of all variables can be found in appendix 2.

#### **3.1.4. Survey design**

Based on these variables, a cross-sectional survey studying the relative importance of location factors for creative organizations in Amsterdam was designed<sup>2</sup>. On request of O+S, respondents were presented with a self-completion questionnaire containing a limited amount of ten questions. In this manner, the survey was quick to administer, respondents could fill in the survey at their own convenience and the absence of interviewer effects was secured. The survey contained single response questions, multiple response questions and Likert scale questions. To measure their attitude towards the different location factors, respondents were presented with a total of 30 statements and were asked to indicate their level of agreement using a 5-point Likert scale. The Likert scale, running from 'strongly disagree' to 'strongly agree', creates the possibility to 'measure the intensity of feelings about the area in question' (Bryman, 2012, p. 166). After creating the initial survey, the survey questions were tested on three individuals. A survey test helps to evaluate if the questions are formulated in a clear manner and if the survey is organized properly. Any objective person has to be able to understand and give an answer to the question. In order to test the survey in a short period of time, two objective individuals within the personal environment of the researcher evaluated the survey. In addition, Rogier van der Groep of O+S reviewed the survey. Evaluation resulted in a reduction of the number and length of statements. Also, O+S programmed the survey and provided it with an attractive layout.

The final survey was structured as follows. The first four questions focused on the identification of the organizations location. Respondents were asked to fill in the zip code of their current location, the date of location at this location and the number of relocations of the organization. Respondents were presented with ten optional workplace types. Since the literature showed that creative workers are considered mobile workers, it was possible to give multiple responses. In order to avoid wrong choices due to the plurality of options, respondents were asked to state the name of their location making afterwards verification of choices possible. Next, the respondents were presented with three lists of ten statements regarding their location decision in Amsterdam, location decision for workplace and the benefits they experience at their workplace. Finally, the respondents were asked to fill in some general characteristics on the sector their organization is active in and their main activity.

#### **3.2. Data collection and analysis**

As mentioned, the data for this study was collected through the business panel of the

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<sup>2</sup> Appendix 3: Survey (ENG – NL)



Statistical Bureau of Amsterdam (O+S). Members of this voluntary digital panel of approximately 2500 entrepreneurs are asked for their opinion on several topics related to business in Amsterdam. At the start of the business panel, O+S actively recruited members by contacting all 50.000 organizations in the ARRA register (section of the Chamber of Commerce registration file) by mail with the request to join the panel. Since then, all new businesses in ARRA are approached with an invitation to join the panel. In addition, the website of the municipality of Amsterdam offers the option to sign up for the panel and flyers are distributed at network meetings of the Chamber of Commerce.

Included in the panel are approximately 750 creative organizations. Between April 17 and April 28, 746 organizations were contacted through email with the request to fill in the digital survey. Since the survey was only intended for business panel members, all respondents were asked to fill in their unique panel id code. This code made it possible to obtain secondary demographic data on the respondents that were not directly asked in the survey but were part of the database of O+S. A frame error occurred for 168 respondents within the sample frame. 158 invitations were returned because of an address error, 10 respondents answered that they were no longer working. Of the remaining 216 respondents, 23 respondents interrupted the survey. Eventually, 193 respondents completed the survey successfully accounting for 26% of the sample frame.

Responses to the survey were collected using the online survey system of O+S and afterwards analysed through SPSS. First, a principal axis factor analysis was conducted to detect structure in the relationships between the various indicators. This test is a means to reduce the amount of variables, but also provides a check for the conceptualization of the different factors. A reliability analysis, using Cronbach's alpha, was performed to decide which scale (the initial or the result of the factor analysis) was most valid. Subsequently, the valid scales were computed into single variables. A quantitative description was given of the independent variables using frequency tables and cross tabulations. Individual scores of the multiple-indicators were examined using frequency tables. The statistical significance of the relationship between variables was measured using independent-samples t-test. The role of demographics was tested using an One-Way ANOVA. The statistical significance of the relative importance of the factors was tested using paired-samples t-test.

### **3.3. Quality of research**

The following section reflects on the quality of the conducted research. All the respondents should fit the formulated selection criteria to make sure the data can be

used for further analysis. Based on information from O+S, an estimate of the population is given to understand the relation between the sample and the population. Next, the validity and reliability of the research are discussed. The last section outlines the general limitations of this research.

### **3.3.1. Quality of respondents**

From the sample of 746 organizations, 193 organizations successfully completed the survey, which translates to 26% of the initial sample. However, to include the respondents in the sample for further analysis they must meet the criteria set for this study. First, it has to be confirmed that the organizations the respondents represent are active in the CI. Second, respondents have to meet the geographical requirement of location in Amsterdam. Respondents were asked to indicate the sector in which they are active, their main activity and the zip code of the company (e.g. zip code of the visiting address, not the mailbox). Even though all respondents indicated to be active in one of the CI sectors, the open question referring to their main activity shows that, despite of the careful construction of the sample, not all respondents represent organizations active in the CI. All main activities were examined and verified according to the SBI-code classification. Thirteen respondents were excluded from the sample for further analysis, because their main activity does not correspond with the operational definition of CI, for example a hairdresser and a handy man. Consequently, the sample was reduced to 180 respondents.

To meet the second selection criterion, the respondents must be located in the municipality of Amsterdam that is demarcated by zip code<sup>3</sup>. After examination of zip codes, four respondents appeared to be currently located outside of the Amsterdam municipality and, therefore, are excluded from the sample. A third selection criterion was to only include respondents in the position to make location decisions. Unfortunately, it was not possible to obtain information on the professional position of all respondents. Due to constrain of the survey, data on position was obtained from secondary statistical data from O+S. Unfortunately, secondary data appeared incomplete. Available data on part of our sample (n=135) shows that all respondents are either owner (79,2%) or co-owner (20,8%) of the organization<sup>4</sup>. Since the panel only includes respondents that have registered as owner of a company through the Chamber of Commerce, we can justifiably presume that all respondents have decision-making capacity. A total of 17 respondents are excluded from the sample since they failed to

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<sup>3</sup> Sources: <http://www.geopostcodes.com/Amsterdam>  
[http://nl.wikipedia.org/wiki/Lijst\\_van\\_postcodes\\_1000-1999\\_in\\_Nederland](http://nl.wikipedia.org/wiki/Lijst_van_postcodes_1000-1999_in_Nederland)

<sup>4</sup> Appendix 5

meet the requirements. The improvement of the quality of the sample resulted in a sample size of 176 respondents (n=176).

### **3.3.2. Estimate of the population**

The statistical data derived from the 176 respondents has to be interpreted in relation to the population. For that reason we establish an estimate of the population of organizations within the geographical area of the municipality of Amsterdam that are active in the CI. In January 2014, Amsterdam accommodated 28.055 organizations active in the CI with approximately 58.000 active creative workers. Table 2 shows an overrepresentation of the arts sector in Amsterdam's CI. Nevertheless, the design, advertisement, fashion and digital media branches are often seen as leading branches in the city of Amsterdam (Van Oosteren & Teirlink, 2013). One third of creative business services in Amsterdam are classified in 'communication and information' branch. The rest is made up out of design professions, such as graphic and web design. The biggest branch in the media and entertainment sector is press media (Rutten & Koops, 2014).

The arts sector is composed of the smallest organizations. With 13.581 business and 23.733 active workers, on average each business employs 1,7 employees. Second, with an average of 2 employees per business, the creative business services employ 17.303 workers in 8600 different businesses. The media and entertainment sector has the largest organizations, with an average of 2,2 people per business, with a total of 16.955 workers in 7763 businesses. The research rapport 'Monitor CI' carried out by O+S in 2012 underlines that the CI of Amsterdam consists mainly of small businesses. In Amsterdam, 84% of creative organizations in the creative industry are none-employer firms. Moreover, a large part of these small businesses are self-employed people or freelance workers (Van Oosteren & Teirlink, 2013). The growth of micro-organizations (<10 employees) in the CI in Amsterdam is partly due to the introduction of the Law on Trade. Since 2008, all self-employed creative workers are required to register at the Chambers of Commerce. Naturally, this has had a significant impact on the number of establishments and employment in the CI. All non-employer firms and self-employed workers end up in the statistics as a business. Numbers on distribution of CI in Amsterdam show a strong clustering of CI in the inner city. 24,3% of CI businesses is located in Amsterdam Centrum. Next, Amstedam West (23,2%) and Amsterdam Zuid (20,1%) are most popular city districts to locate. Only 14,6% of CI are located in the more rural areas of Amsterdam Noord, Nieuw-West, Westpoort and Zuid-Oost.

Table 2: Organizations and employment in the creative industries, 2010-2014.

Source: O+S

| <b>Organizations and employment 1) in the creative industries, 1 January 2010-2014</b> |             |             |             |             |             |
|--|-------------|-------------|-------------|-------------|-------------|
|  | <b>2010</b> | <b>2011</b> | <b>2012</b> | <b>2013</b> | <b>2014</b> |
| <b>organizations</b>   |             |             |             |             |             |
| arts   | 8718        | 10934       | 11905       | 12712       | 13581       |
| media and entertainment  | 6186        | 6832        | 7154        | 7416        | 7763        |
| creative business services   | 5924        | 6832        | 7411        | 7927        | 8600        |
| total  | 20828       | 24598       | 26470       | 28055       | 29944       |
| <b>employment</b>  |             |             |             |             |             |
| arts   | 18163       | 20762       | 21710       | 22783       | 23373       |
| media and entertainment  | 16247       | 16859       | 16605       | 16850       | 16955       |
| creative business services   | 13845       | 15260       | 15984       | 16594       | 17303       |
| total  | 48255       | 52881       | 54299       | 56227       | 57631       |

1) Both employers working more than 12 hours a week, and employers working less than 12 hours a week.  
Source: O+S

### 3.3.3. Reliability of scales

Based on the theoretical exploration of the concept of location factors, three scales were designed for Amsterdam and workplace decision. Each scale (e.g. hard, cluster and soft) uses three to four items to measure the overarching concept. These scales are developed with the aim of obtaining mean scores for each respondent on the location factors. To verify if these items actually measure the same concept, both a factor analysis and a reliability analysis were performed. A factor analysis identifies clusters of variables and is therefore an informative measure to test whether there is an inherent structure among the statements. In this study, the factor analysis is performed to establish if the assumed relation among the multiple-indicators can be confirmed (Bryman, 2002). In addition, an internal reliability analysis of scales using Cronbach's alpha ( $\alpha$ ) indicates if the data correlates and points in the same direction. A value of 0,80 or higher signals an acceptable level of internal reliability. Nevertheless, scholars regularly apply a minimum level of 0,60 to 0,70 as satisfying (Bryman, 2002).

#### *Hard, cluster and soft location factors for settlement in Amsterdam*

A principal axis factor analysis<sup>5</sup> was conducted on the 10 items with varimax rotation. The Kaiser-Meyer-Olkin measure verified the sampling adequacy for the analysis, KMO = 0,814. Three factors had eigenvalues over Kaiser's criterion of 1 and in combination

<sup>5</sup> Appendix 4

explained 70,24% of the variance. Examining the rotated component matrix, the items that cluster on the same factors suggest that factor 1 represents the initial cluster location factors, factor 2 present soft location factors and factor 3 relate to the initial hard location factors. When applying a criterion of 0,5 (Field, 2013), the indicators 'presence of personal/social/ family contacts in the city' and 'tolerant attitude for ethnic, cultural and lifestyle diversity' seem to not fit in with one of these factors. Since the factor analysis is an exploratory tool, this does not directly change the scales. A reliability analyse of the scales should provide more decisive information.

Both initial scales as scales suggested by the factor analysis were tested on reliability. The internal reliability of the cluster scale proves to be acceptable ( $\alpha = 0,809$ ). As the output shows, changes in the scale will not lead to a higher reliability. The soft location scale as defined by the literature shows a less favourable image ( $\alpha = 0,672$ ). In line with what is suggested by the factor analysis, deleting the item 'presence of personal/social/ family contacts in the city' increases the Cronbach's alpha of this factor to 0,687. If we also follow the second suggestion of the factor analysis and delete the 'tolerant attitude for ethnic, cultural and lifestyle diversity' item, this scale shows an internal reliability of 0,706. The two items form a scale for urban location factors. The remainder of items are considered individually. The initial scale of hard location factors shows a relatively low reliability ( $\alpha = 0,568$ ). This indicates that respondents scores on underlying variables differ to much, and therefore, a combination of these items do not present a reliable scale. The reliability of the hard factor scale does not improve when items are deleted. Therefore, all hard location items are considered separately in the remainder of the analysis.

#### *Hard, cluster and soft location factors for settlement at workplace*

A principal axis factor analysis<sup>6</sup> was conducted on the 10 items with varimax rotation. The Kaiser-Meyer-Olkin measure verified the sampling adequacy for the analysis, KMO = 0,758. Three factors had eigenvalues over Kaiser's criterion of 1 and in combination explained 75,63% of the variance. Also, the scree plot showed inflexions justifying the retaining of three factors. Examining the rotated component matrix, the items that cluster on the same factors suggest that factor 1 represents hard and flexible location factors, factor 2 focuses on professional interaction and factor 3 relate to soft factors of the workplace. According to the factor analysis, the initial indicators of the cluster scale do not correlate.

Again, reliability analysis was performed on both initially designed scales and

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<sup>6</sup> Appendix 4

factors from the factors analysis. Reliability check of the initial hard location scale, including 'price or rent', 'flexibility of use' and 'flexibility of lease', resulted in a somewhat satisfying level of reliability ( $\alpha = 0,601$ ). Statistics show that deletion of items from this scale does not further improve this number. However, the internal reliability of the scale of 'hard and flexible location factors' derived from the factor analysis indicates a higher Cronbach's alpha of 0,773. This scale can even be further improved by deleting the item 'price or rent', resulting in a Cronbach's alpha of 0,79. The item 'price or rent' will be considered individually. The grouping of remaining items suggests a scale for flexibility and presence of others. Second, both the theory as the factor analysis identified a cluster of matching soft location factor items relating to the 'atmosphere' of the workplace. The reliability analysis of the soft scale indicates a satisfactory internal reliability ( $\alpha = 0,687$ ). The scale cannot be further improved. The last two items, 'professional interaction to get feedback or build a network' and 'collaboration and professional partnerships' together form a scale of professional interaction with a high internal reliability ( $\alpha = 0,904$ ). Subsequently, overall means for the scales were calculated to gain insight in the relative importance of the location factors represented by these scales. The variables for each scale are computed into single variables. Table 4 presents an overview of the composition of the factor scales used in further analysis.

#### *Item reduction for benefits of the workplace*

Ten individual statements measure the benefits experienced at workspace. To check for correlation among these variables, a principal axis factor analyses<sup>7</sup> was conducted on the 10 items with varimax rotation. The Kaiser-Meyer-Olkin measure verified the sampling adequacy for the analysis, KMO = 0,746. Three factors had eigenvalues over Kaiser's criterion of 1 and in combination explained 69,87% of the variance. Examining the rotated component matrix, the items that cluster on the same factors suggest that factor 1 represents personal advantages, factor 2 focuses on social and professional interaction advantages and factor 3 relate the increased amount of work. The cost advantages and number of collaboration were excluded and analysed individually.

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<sup>7</sup> Appendix 4

Table 4: Composition of hard, soft and cluster factors used for analysis.

| Amsterdam  | Workplace  |
|--|--|
| <p><b>Economic policy</b></p> <ul style="list-style-type: none"> <li>Economic policy of the municipality, subsidies and tax breaks.</li> </ul>   | <p><b>Price</b></p> <ul style="list-style-type: none"> <li>Price or rent.</li> </ul>   |
| <p><b>Accessibility</b></p> <ul style="list-style-type: none"> <li>Accessibility and infrastructure.</li> </ul>  |  |
| <p><b>Cost minimization</b></p> <ul style="list-style-type: none"> <li>Minimizing transport, labour and supplier costs.</li> </ul>   |  |
| <p><b>Cluster location factors</b></p> <ul style="list-style-type: none"> <li>Knowledge exchange with consumers, competitors and strategic organizations.</li> <li>Access to specialized resources, supply and complementary services.</li> <li>Proximity to labour market and educational institutions with potential employees.</li> </ul> | <p><b>Flexibility and cluster factors</b></p> <ul style="list-style-type: none"> <li>Flexibility of lease.</li> <li>Flexibility of use.</li> <li>Access to information and knowledge from others.</li> <li>The ability to share facilities.</li> </ul> |
| <p><b>Soft location factors</b></p> <ul style="list-style-type: none"> <li>The image of the city.</li> <li>Presence of cultural facilities and activities.</li> </ul>  | <p><b>Professional interaction</b></p> <ul style="list-style-type: none"> <li>Collaboration and professional partnerships.</li> <li>Professional interaction to get feedback or build a network.</li> </ul>  |
| <p><b>Family</b></p> <ul style="list-style-type: none"> <li>Presence of cultural facilities and activities.</li> </ul>   | <p><b>Sphere and surroundings of the workplace</b></p> <ul style="list-style-type: none"> <li>Inspiring environment.</li> <li>Representative and professional appearance of site.</li> <li>Social interaction with diverse type of workers.</li> </ul> |
| <p><b>Tolerance</b></p> <ul style="list-style-type: none"> <li>Tolerant attitude for ethnic, cultural and lifestyle diversity.</li> </ul>  |  |

### 3.3.4. Validity and reliability

Questions regarding the quality of social research involve issues of reliability, replication and validity. This section critically evaluates the reliability, replicability and validity of this research. First, the reliability of a study evaluates if the measures for the concepts are consistent. Since this study made use of several scales, the internal reliability was tested using Cronbach's alpha in SPSS. As was outlined in the previous

section, not all scales were equally reliable. This is not surprising, since the length of the survey required combining certain statements. Even so, only scales with a satisfying reliability level were used in the analysis. The general reliability of the research can be compromised by the lack of data on some demographic variables. For instance, secondary data was lacking information on the professional position of a part of the respondents. Although membership of the business panel implies decision-making power, it cannot be said with certainty that all respondents in the study are owner or co-owner of the organizations and thus in the position to make location decision. Second, especially in a research fields characterized by debate and contradictions on a specific issue, it is crucial that the study is replicable. To do so, all the steps of the research have to be documented and thoroughly explained. This research meets the requirements of replication by clearly defining the population and the selection of the sample, explaining the method of data collection and giving an extensive explanation of the processing of the data.

Third, the concept of validity questions the integrity of the conclusions derived from the research by evaluating the internal, external and measurement validity. Measurement validity concerns the degree to which the used measures reflect the concept it is supposed to present (Bryman, 2002). In this research, measurement validity has been established while testing the survey. Since the test panel interpreted the questions as intended, it is reasonable to believe the research meets the required face validity. In addition, content validity was secured by constructing measures based on the extensive body of research on location factors. Even so, due to the diversity of sectors and type of workspaces, it is possible that some questions in the survey not evenly relevant for all respondents. The internal validity of research relates to the issue of causality (Bryman, 2002). For this research, the internal validity is hard to establish. A quantitative research approach attempts to apply scientific models of causality on human and social behaviour. However, one can assume that the research object is highly complex and dynamic. By asking the respondents to indicate the importance of location factors in retrospect, this research hopes to overcome wishful thinking and separates intended behaviour from real options. The last form of validity, external validity, evaluates if the research results are applicable for the population. Since the research is focused on one Amsterdam only, the external validity is somewhat limited. Nevertheless, the research results contribute to the more general understanding of relative importance of location factors for the creative industries.



### **3.3.5. General limitations**

During the conduction, this study encountered general limitations. First, the overall number of cases is limited to 176, which makes only few subdivisions feasible without jeopardizing the scientific accountability of the study. As a result, it was often not possible to present the differences between creative workers at different locations. Second, dependence on the business panel of O+S has limited the scope of the study. The Statistical Bureau of Amsterdam kindly allowed this study to make use of the business panel. However, to not over-ask the panel members, the Statistical Bureau required the amount of survey questions to be kept to a minimum of ten questions. In addition, they offered to complement the survey data with secondary data on the demographics of the respondents from the existing database. Unfortunately, only after completion of the survey, not all necessary background variables appeared to be available. This limited the analysis of the effect of demographic variables in this research.

### **3.4. Chapter summary**

This research applies a deductive quantitative research design and conducts a cross-sectional survey under organizations active in CI in Amsterdam. This unit of analysis was defined using the most frequently used classification of creative organizations in the Netherlands. On the basis of the five-digit SBI 2008 codes, all three sectors of CI in Amsterdam were included in the study. The Statistical Bureau of Amsterdam kindly allowed the use of their business panel to approach 750 creative organizations in Amsterdam, automatically selecting the sample based on membership of the panel. A survey was designed measuring the main concepts of this study. After evaluation, 176 respondents met the requirements for further analysis. Data analysis was performed using SPSS. Not all scales designed to measure the concepts proved to be equally reliable. A factor analysis was performed to implement the most reliable scales. Other general limitations of this study were the small size of the sample and constraints on the survey length. The following chapter gives a detailed description of the collected data and the procedure of data analysis.

## 4. Results

This chapter presents the outcome of the empirical research. First, the general characteristics of the sample are discussed using descriptive statistics. Section two discusses mean scores for the individual items. Reliability analysis resulted in the computation of seven location factors for Amsterdam, four location factors for workspace and five types of experienced benefits. Section three examines the relative importance of the computed scales. In addition, section three examines if the assumed relative importance can be supported when controlled for demographic variables at individual level. The fourth section compares the relevance of location factors for different workplaces. The final section will provide a short summary of the empirical findings.

### 4.1. Descriptive statistics

#### 4.1.1. Demographic characteristics: age, gender and working hours

Statistics and frequencies<sup>8</sup> of the variable age (n=143) shows that the average age (mean) of the respondents is 52,1 years. A group of 33 respondents did not want to state their age. The median of 52 years points to a normal distribution. On the other hand, the standard deviation is a little over 10 years, which signals a wide distribution of age. This can be assumed normal, since there is no reason why a specific age group should dominate the population active in creative organizations. However, the mode of 61 years indicates a high concentration of older entrepreneurs in the sample.

Histogram in figure 1.a. demonstrates the variable is normally distributed. Respondents were computed into four age categories reflecting different phases of professionalism; starters (20-35 years), mid-careers (36-50 years), senior entrepreneurs (50-65) and entrepreneurs working beyond retirement (65 years and older). Bar chart in figure 1.b. shows an overrepresentation of the senior entrepreneurs in the sample. A clear explanation for this is hard to give. It is possible that the senior entrepreneurs are more willingly to volunteer for the business panel or that the recruitment of panel members has failed to reach younger age groups.

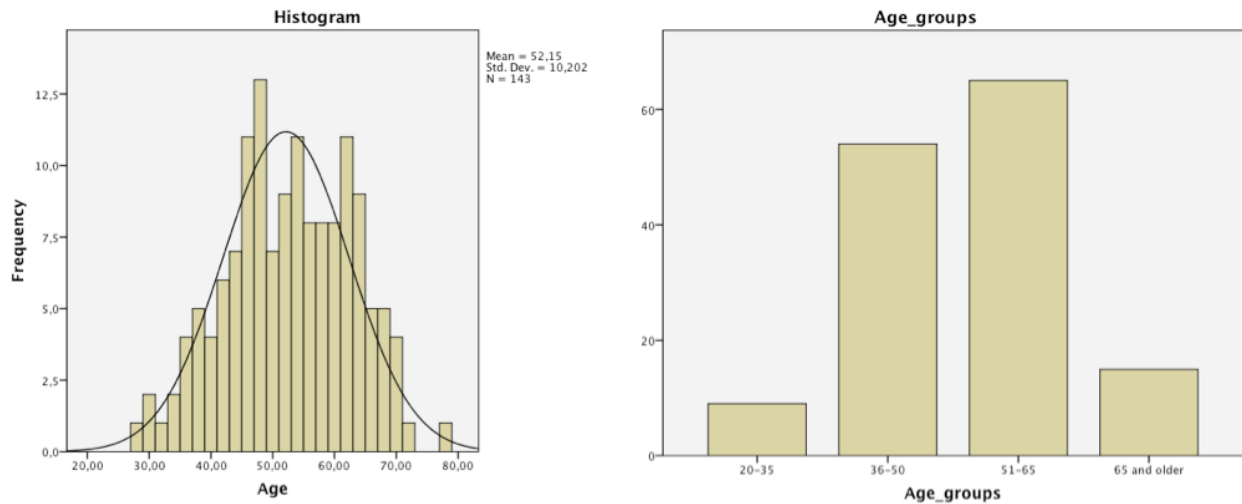
In relation to gender, the sample shows a slight dominance of male respondents. Twenty-eight respondents did not want to state their gender. The remainder of the sample (n= 148) consists of 90 men and 58 women. In relation to the total sample (n=176), 51,1% of the respondents is male and 33% female. There is no clear explanation for the predominant presence of male respondents in the sample. A possible

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<sup>8</sup> Appendix 5

theory can be that women are more risk-averse and patient in developing their careers, and therefore, less entrepreneurial. It can also be that female entrepreneurs are less willing to state their gender. However, no data is studied to support this claim.

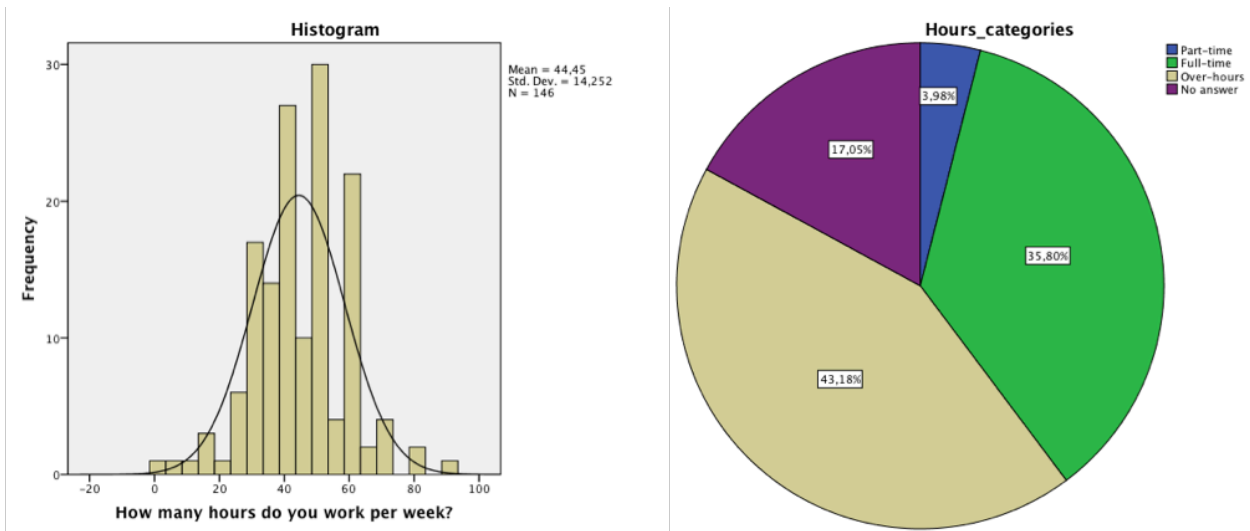
Figure 1.a – 1.b: Distribution of age.



Based on data from the panel, figure 2.a. gives an overview of the amount of work hours that the respondents invest in the organization on weekly bases<sup>9</sup>. Thirty respondents (17,5%) did not want to answer this question. The remainder of the sample worked 44,45 hours a week on average with a mode of 50 hours. This indicates normal working patterns. However, the standard deviation of 14,52 hours shows that the hours respondents put in are widely distributed, with outliers of 80 or 90 hours a week. To clarify the working pattern, respondents were divided in three categories: part-time workers (1-24 hours), fulltime workers (25-40 hours) and workers that put in over hours (41 hours and more). Figure 2.b. shows the majority of respondents (43,18%) work 'over-hours'. In line with theory, creative work typically involves long working hours.

<sup>9</sup> Appendix 5

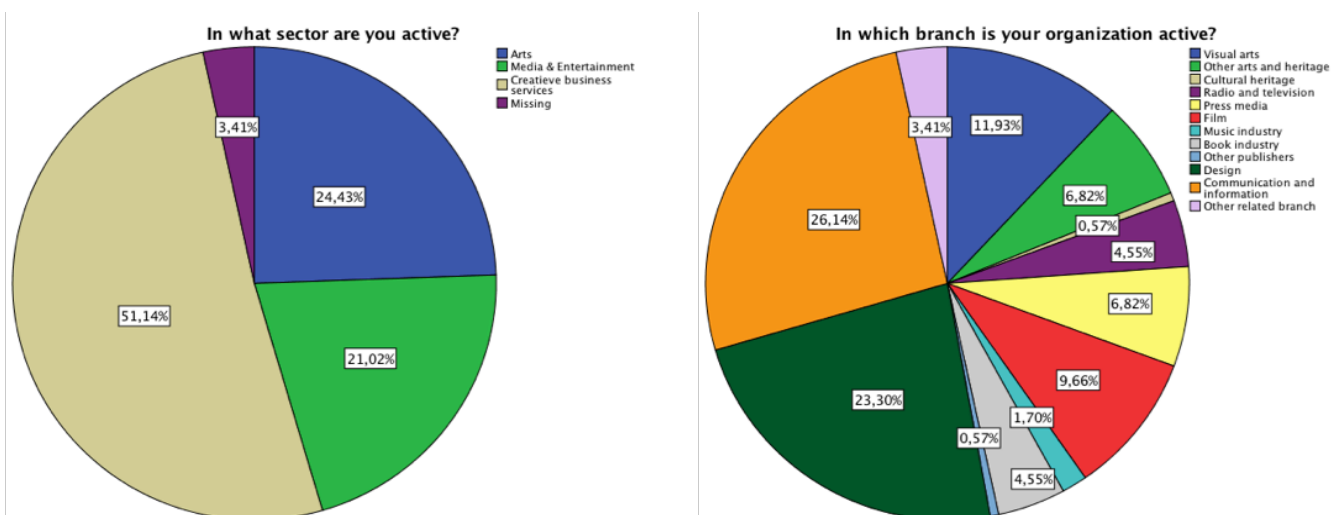
Figure 2.a. -2.b.: Working hours, in hours and in categories.



#### 4.1.2. Characteristics of the represented organization: sector, branch and firm size

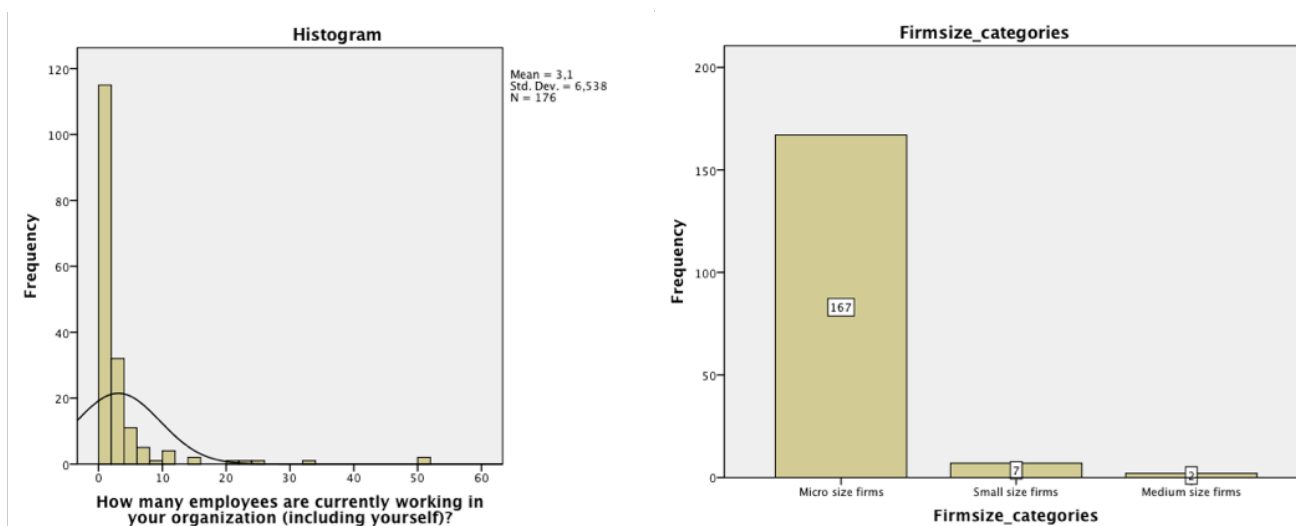
CI are compromised out of different sub-sectors that all represent a selection of branches. Figure 3.a. shows most organizations (51,14%) in the sample are active in the creative business services. This differs from the estimated population, but can be explained by the fact that creative business organizations are more likely to appoint themselves as creative entrepreneurs, and therefore, it is plausible that they are more likely to volunteer for the business panel of the municipality of Amsterdam. Figure 3.b. displays that this part of sector is primarily made up of 'communication and information' branch and 'design' (e.g. product design, architecture, web and graphic design). Organizations in the communication information branch account for 26,14% of the sample which complies with the estimated population in Amsterdam.

Figure 3.a-3.b.: Sectors and branches in which respondents are active.



The statistics and frequencies<sup>10</sup> of the size of the organizations display the number of employees working for the organization. The sample shows an average of 3,1 employees per organization and a median of 1 employee. A mean that is greater than the median indicates a skewed distribution. The histogram in figure 4.a. shows a distribution that is skewed to the right instead of a normal distribution (skewness = 5,298, SE= 0,183). There appear to be two respondents that represent medium sized organizations with 50 employees<sup>11</sup>. These two respondents are seen as extreme values in comparison to the over representation of non-employer firms and self-employed freelancers. 65,9% of respondent's state to represent a non-employer organization<sup>12</sup>. Since the distribution of number of employees is positively skewed, it is unadvisable to perform any statistical test that assumes a normal distribution. A categorization of the organizations number of employees, in line with EU definitions<sup>13</sup>, shows a definite dominance of the micro sized firms (<10 employees), only 7 firms are small sized (10 -49 employees) and 2 organizations can be classified as medium sized firms (>50 employees). Based on the estimate of the population, this is a general pattern for the CI in Amsterdam.

Figure 4.a-4.b: Distribution of firm size.



<sup>10</sup> Appendix 5

<sup>11</sup> Appendix 5

<sup>12</sup> Appendix 5

<sup>13</sup> Source: [http://ec.europa.eu/enterprise/policies/sme/facts-figures-analysis/sme-definition/index\\_en.htm](http://ec.europa.eu/enterprise/policies/sme/facts-figures-analysis/sme-definition/index_en.htm), Retrieved on May 27, 2015.

### 4.1.3. Location

Since creative workers are characterized by flexible working patterns and high mobility, the survey-question on the type of location allowed for multiple responses. In contrast to what was expected, the multiple response frequency table in figure 5 shows that a convincing majority of respondents (39,6%) works from home. The second most popular location is the office building or business location housing 27% of respondents. The most frequently mentioned 'creative' location category represented in the results is the 'art factory, studio and other creative workplace' from where 11,3% of respondents work. It must be concluded that the assumed popularity of flexible and coworking spaces appears to be incorrect. Merely two respondents (0,9%) mention a coworking space as their workplace. Five respondents (2,3%) work at a flexible workplace and six respondents (2,7%) have a temporary or anti-squatting location. Nineteen respondents (8,6%) work at a creative business complex. Nineteen respondents (8,6%) work at a creative business complex.

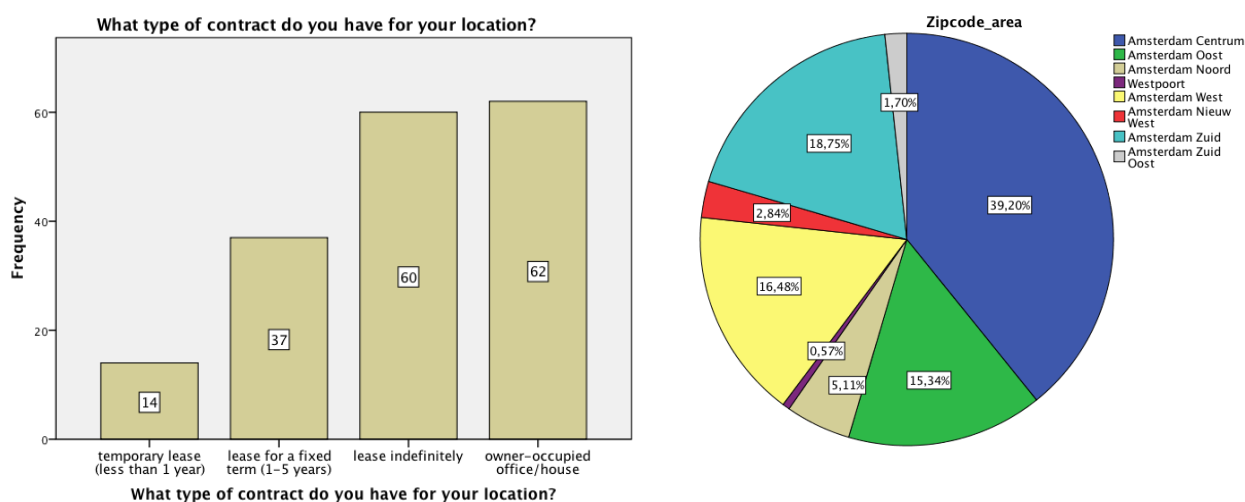
Figure 5: frequencies of type of workplace.

\$Type\_location Frequencies

|  | Responses |         | Percent of Cases |
|--|-----------|---------|------------------|
|  | N         | Percent |                  |
| office building or other business location                           | 60        | 27,0%   | 34,1%            |
| coworking space or hub (eg. Spaces, Thinkinghut, Impact Hub)         | 2         | 0,9%    | 1,1%             |
| flexible workplaces (eg. at a company with extra room)               | 5         | 2,3%    | 2,8%             |
| creative business complex (eg. Alab, Beehive)                        | 19        | 8,6%    | 10,8%            |
| \$Type_location <sup>a</sup> broedplaats/studio/workspace (eg. NDSM) | 25        | 11,3%   | 14,2%            |
| anti-squatting or temporary location (eg. Lola Loud)                 | 6         | 2,7%    | 3,4%             |
| incubator/startup accelerator (eg. Rockstart)                        | 2         | 0,9%    | 1,1%             |
| public space (eg. cafe, library)                                     | 10        | 4,5%    | 5,7%             |
| home/home office   | 88        | 39,6%   | 50,0%            |
| on location  | 5         | 2,3%    | 2,8%             |
| Total  | 222       | 100,0%  | 126,1%           |

There are several probable explanations for these finding. First, Amsterdam is an expensive city<sup>14</sup>. Working from home can provide an easy way to minimize the operational costs of the creative organization. Second, workers in the creative business services sector require limited facilities. The home still provides the least expensive option to locate. Third, coworking spaces, incubators, hubs are still new phenomenon focus strongly on creative starters. The sample of this study mainly includes senior entrepreneurs that aren't the target audience for these creative workplaces. Fourth, older people generally have larger houses, and are more probable to own a house. These houses facilitate space for working from home or opening a home office. The type of contract variable confirms this. Most respondents are owner of their workplace<sup>15</sup>. In all probability, this is explained by the fact that the respondents work from their home. A cross tabulation of home workers and type of contract indeed shows that 58,1% of creative workers that work from home have a 'owner-occupied house or office'. 22% of creative workers located in office buildings are owner of their location. 11,9% have a temporary lease for their office building.

Figure 6.a-6.b: Type of contract and distribution among city districts.



Distribution data of creative workers within Amsterdam confirms the popularity of inner city workplaces. 39,2% of creative organizations is located in the city centre. A cross tabulation<sup>16</sup> of the type of location and the zip code area shows the same image for the individual types of location. 53,3% of office buildings, 47,4% of creative business complexes and 48% of art factories, studio's and creative workplaces are located in the

<sup>14</sup> Source: <http://www.nltimes.nl/2014/07/11/amsterdam-jumps-expensive-cities-list/>, Retrieved on June 5, 2015.

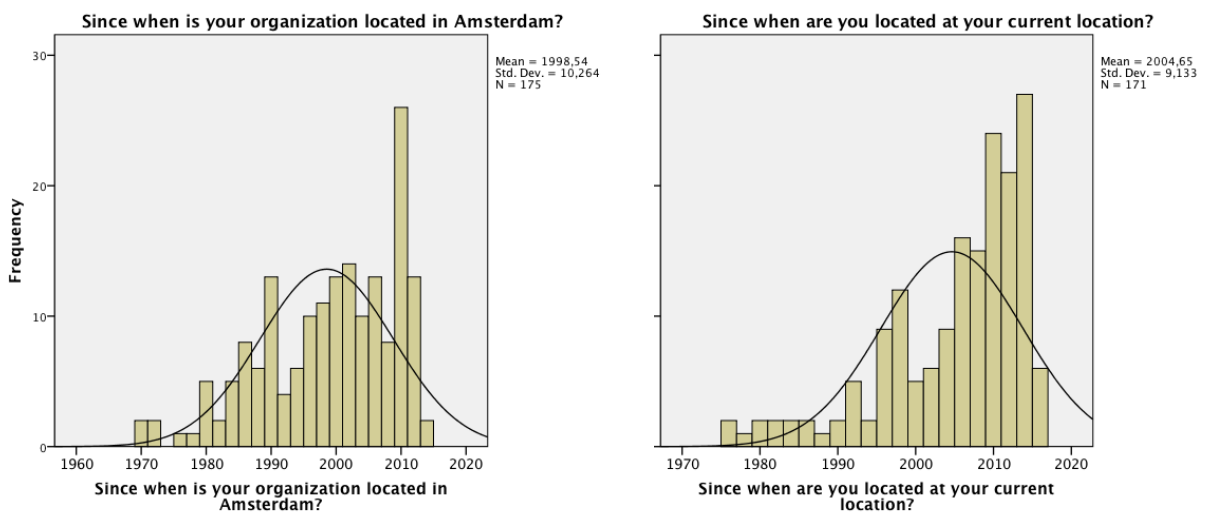
<sup>15</sup> Appendix 5

<sup>16</sup> Appendix 5

city centre. Only 23,9% of home workers are located in the centre. The scarcity and high prices of houses in the inner city of Amsterdam explains this. Next, the Amsterdam Zuid area is most popular housing 18,8% of creative organizations. In addition, this city district houses one third (30,7%) of all home workers.

Organizations in the sample have a long history within the city of Amsterdam. On average, the organizations settled in Amsterdam in 1998. The median year of 2000 shows that 50% of organizations located in Amsterdam before 2000 and 50% after. Multiple modes exist namely 2009 and 2010. An explanation can be the introduction of the Law on Trade as described in the previous section. It is probable that several of these organizations already worked in the CI, but only registered at the Chamber of Commerce in Amsterdam since 2009. Duration of residence at the current workplace also shows patterns of long commitment. On average, respondents are located at their current workplace since 2004. The standard deviation of 9,13 however shows that there is large distribution within the sample. The mode of 2013 reveals mobility among the respondents. To further examine this mobility, respondents were asked how many times they have changed location. In contrast to the assumed mobility of creative organizations, 34,4% of respondents reported that their organization never relocated. In accordance, the mode of relocation decisions remains 0. On average, the organizations relocated 1,82 times, probably caused by reported outliers of respondents that relocated 10, 12 or even 20 times.

Figure 7.a-7.b: Duration of residence in Amsterdam and at current workplace.





## 4.2. Research results for individual items

The following section discusses the scores of the individual items underlying the computed scales.

### 4.2.1. Research results for Amsterdam

Appendix 6 presents the statistics and frequencies for the individual indicators constructing the scale of hard, cluster and soft location factors influencing the decision to locate in Amsterdam. Results show that there is no strong variety in means among the items. All means show values within the range of 3,57 and 4,23. The lowest score ( $\mu = 3,57$ ) can be found for the item 'minimizing transport, labour and supplier costs'. The 'presence of cultural facilities and activities' item shows the highest mean ( $\mu = 4,23$ ). Respondents are neutral (e.g. neither agree nor disagree), positive ('agree') or definite positive ('strongly agree') about the influence of the item on their decision to settle in Amsterdam. The mode scores of respondents, ranging from 3 to 5, convey a similar image. In addition, the standard deviations, for the most part, show numbers below 1. None of the respondents mentioned to 'strongly disagree' with the items. The most variance is found in respondent's scores on the item 'economic policy of the municipality, subsidies and tax breaks' ( $SD = 1,224$ ). 28,4% of respondents indicated to strongly agree with this item.

Divergence in scores on the three hard factor items explain the failing reliability of the initial scale. Items point in different directions. While the item on economic policy has a mode of 5, the item on cost minimizations scores considerably lower with a mode of 3. This is not surprising, since one item relates to profits and the other to costs. Locating in Amsterdam is expensive and thus directly minimize the organizations costs is difficult. Subsidies and tax breaks however have a direct effect on the profit of the organization. In addition, it is reasonable to believe that cost minimization through labour and transport is not directly applicable to the creative organizations in the sample. For one, the organizations are predominantly micro-sized. Second, the creative business services prevail. The output of creative business services normally does not involve material inputs, solely human assets.

The items associated with cluster location factors exhibit correlating scores. Differences in mean scores are negligible. Standard deviations are low. It can be concluded that respondents agree on their slightly positive attitude towards these items. Soft location items score generally higher. 42% of respondents mentioned to strongly agree with the influence of 'the presence of personal/social/family contacts in the city'. Approximately 73% of respondents have positive attitudes towards this item (agree –

strongly agree). Similar attitudes can be found towards ‘image of the city’ (66,5% of respondents are positive) and ‘presence of cultural facilities and activities’ (76,7% of respondents are positive). Even with the lowest mean ( $\mu=3,92$ ), 62,5% of respondents have a positive attitude towards the item ‘tolerant attitude for ethnic, cultural and lifestyle diversity’.

Figure 8: statistics for individual indicators location factors Amsterdam.

|                        |         | Statistics  |               |   |  |  |  |   |                   |  |  |  |
|------------------------|---------|---|---------------|---|--|--|--|---|-------------------|--|--|--|
|                        |         | economic policy of the municipality, subsidies and tax breaks | accessibility | minimizing transport, labour and supplier costs | knowledge exchange with consumers, competitors and strategic organizations | access to specialized resources, supply and complementary services | proximity to labour market and educational institutions with potential employees | presence of personal / social / family contacts in the city | image of the city | presence of cultural facilities and activities | tolerant attitude for ethnic, cultural and lifestyle diversity |  |
| N                      | Valid   | 132   | 164           | 149   | 160  | 160  | 148  | 165   | 164               | 164  | 162  |  |
|                        | Missing | 44  | 12            | 27  | 16   | 16   | 28   | 11  | 12                | 12   | 14   |  |
| Mean                   |         | 3,57  | 3,82          | 3,52  | 3,67   | 3,69   | 3,61   | 4,16  | 4,04              | 4,23   | 3,92   |  |
| Median                 |         | 3,00  | 4,00          | 3,00  | 4,00   | 4,00   | 4,00   | 4,00  | 4,00              | 4,00   | 4,00   |  |
| Mode                   |         | 5   | 4             | 3   | 4  | 4  | 4  | 5   | 5                 | 5  | 4  |  |
| Std. Deviation         |         | 1,224   | ,948          | 1,082   | ,943   | ,959   | ,986   | ,924  | ,885              | ,811   | ,952   |  |
| Skewness               |         | ,068  | -,369         | ,118  | -,202  | -,158  | -,110  | -,837   | -,448             | -,798  | -,450  |  |
| Std. Error of Skewness |         | ,211  | ,190          | ,199  | ,192   | ,192   | ,199   | ,189  | ,190              | ,190   | ,191   |  |

#### 4.2.2. Research results for the workplace

Examination of the statistics and frequencies<sup>17</sup> for the items influencing decision for workplace shows even more moderate means within the range of 3,51 and 3,98. ‘Access to information and knowledge from others’ ( $\mu=3,51$ ) displays the lowest score. The ‘inspiring environment’ item scores the highest mean ( $\mu=3,98$ ). Again, no respondent reported a strongly negative attitude towards any of the items. Most standard deviations score a little over 1, which indicates a general agreement among respondents. Respondents are neutral or in agreement with the influence of factors on their workplace decision. The biggest disagreement is found for the item ‘collaboration and professional partnerships’. For this item, 18,8% of respondents reported a negative attitude.

‘Price or rent’ scores a high, but even so moderate, mean ( $\mu=3,88$ ) in relation to the other items. Based on the large percentage of home workers, a more positive attitude would be expected. Scores for respondents in different workplaces will be compared in a later section of this chapter. The items ‘flexibility of lease’ and ‘the ability to share facilities’ have a comparatively high number of missing values. 25,6% of respondents mentions to have no opinion on the item ‘flexibility of lease’. This possibly means that the question was not understood or formulated in the right manner. The same can be true for the item ‘the ability to share facilities’ for which 17,6% of

<sup>17</sup> Appendix 6

respondents stated to have no opinion. Naturally, this item strongly relates to assumption of co-working and co-locating which might not be relevant for all respondents working from home.

Respondents show neutral attitude towards the item 'access to information and knowledge of others' (median=3, Mo=3). Likewise, respondents have a generally neutral attitude towards the item 'collaboration and professional partnerships' ( $\mu=3,53$ , median =3,00, Mo=3). They are slightly more positive towards 'professional interaction to get feedback or to build a network' ( $\mu=3,55$ , median= 4,00, Mo=3). Respondents mostly value the presence of others in 'social interaction' ( $\mu= 3,77$ , median= 4,00, Mo=3). More important is the environment in which their workplace is located. Scores shows that respondents attach importance to the 'inspiring environment' ( $\mu= 3,98$ , median= 4,00, Mo=4) and the 'representative and professional appearance of the site' ( $\mu=3,67$ , median=4,00, Mo=4) of the workplace location.

Figure 9: statistics for individual indicators location factors workplace.

|                        |         | Statistics    |                      |                                 |                       |   |   |                       |                    |  |  |
|------------------------|---------|---------------|----------------------|---------------------------------|-----------------------|---|---|-----------------------|--------------------|--|--|
|                        |         | price or rent | flexibility of lease | the ability to share facilities | flexible use of space | access to information and knowledge from others | representative and professional appearance of the site. | inspiring environment | social interaction | professional interaction to get feedback or to build a network | collaboration and/or professional partnerships |
| N                      | Valid   | 156           | 131                  | 145                             | 148                   | 149   | 158   | 158                   | 153                | 149  | 148  |
|                        | Missing | 20            | 45                   | 31                              | 28                    | 27  | 18  | 18                    | 23                 | 27   | 28   |
| Mean                   |         | 3,88          | 3,53                 | 3,59                            | 3,63                  | 3,51  | 3,67  | 3,98                  | 3,77               | 3,55   | 3,53   |
| Median                 |         | 4,00          | 3,00                 | 4,00                            | 4,00                  | 3,00  | 4,00  | 4,00                  | 4,00               | 4,00   | 3,00   |
| Mode                   |         | 4             | 3                    | 5                               | 4                     | 3   | 4   | 4                     | 4                  | 3  | 3  |
| Std. Deviation         |         | ,932          | 1,125                | 1,134                           | 1,039                 | 1,076   | ,961  | ,892                  | 1,016              | 1,062  | 1,127  |
| Skewness               |         | -,480         | ,045                 | -,086                           | -,164                 | ,023  | -,257   | -,399                 | -,288              | -,013  | ,045   |
| Std. Error of Skewness |         | ,194          | ,212                 | ,201                            | ,199                  | ,199  | ,193  | ,193                  | ,196               | ,199   | ,199   |

#### 4.2.3. Research results for workplace benefits

Figure 10 shows the average scores of respondents for several benefits they encounter at their workplace. An exploration of the frequencies and statistics<sup>18</sup> of the benefits shows the highest average for the item 'I feel creative/inspired' ( $\mu= 4,18$ ). The lowest average is found for the item indicating an increase in collaborations. Since the majority of respondent's works from home, this result is not surprising. In addition, the personal benefits of motivation and productivity score high. Standard deviations of these items indicate the distribution among respondents is narrow. The cost benefits of workplace shows the most variance among respondents with a standard deviation of 1,19.

<sup>18</sup> Appendix 6

Figure 10: statistics for individual indicators workplace benefits.

|                        |         | Statistics     |                            |                                   |   |  |   |                              |  |                                       |  |
|------------------------|---------|----------------|----------------------------|-----------------------------------|---|--|---|------------------------------|--|---------------------------------------|--|
|                        |         | I am motivated | I feel creative / inspired | I work efficient and concentrated | I do not feel alone / lonely during my work | I experience advantage of social interaction | I experience benefit from professional collaborations | the amount of work increased | the number collaborations with other organizations increased | the turnover of my business increased | the location costs of my organization decreased. |
| N                      | Valid   | 174            | 174                        | 174                               | 167   | 166  | 162   | 160                          | 159  | 163                                   | 164  |
|                        | Missing | 2              | 2                          | 2                                 | 9   | 10   | 14  | 16                           | 17   | 13                                    | 12   |
| Mean                   |         | 4,14           | 4,18                       | 4,05                              | 3,89  | 3,68   | 3,56  | 3,44                         | 3,31   | 3,42                                  | 3,48   |
| Median                 |         | 4,00           | 4,00                       | 4,00                              | 4,00  | 4,00   | 3,00  | 3,00                         | 3,00   | 3,00                                  | 3,00   |
| Mode                   |         | 4              | 4                          | 4                                 | 4   | 4  | 3   | 3                            | 3  | 3                                     | 5  |
| Std. Deviation         |         | ,624           | ,627                       | ,807                              | ,905  | 1,062  | 1,075   | ,943                         | 1,074  | ,999                                  | 1,190  |
| Skewness               |         | -,254          | -,300                      | -,696                             | -,524                                       | -,253  | ,005  | ,160                         | ,306   | ,158                                  | ,099   |
| Std. Error of Skewness |         | ,184           | ,184                       | ,184                              | ,188  | ,188   | ,191  | ,192                         | ,192   | ,190                                  | ,190   |

### 4.3. Confronting the factors

An analysis of the total scores on the combined scales for the location factors makes it possible to answer the research question. Since initial combination of items did not construct a reliable scale, the excluded items were considered individually.

#### 4.3.1. Location factors for Amsterdam

Seven location factors were used for further analysis, including clustering factor, urban factors, tolerance factor, personal contacts factor, accessibility factor, economic policy factor and cost minimization factor. As expected from the discussion of the individual items, the mean scores of the computed location factors are not widely distributed. In contrast to the individual items, the presence of personal/social/ family contacts shows the highest mean ( $\mu = 4,16$ ). The mode of 5 and median of 4 indicate respondents most strongly agree with the influence of personal contacts on the decision to locate in Amsterdam. The urban location factors are a close second with a mean of 4,13 (median = 4, Mo = 5). Standard deviation (SD = 0,75) indicates a narrow distribution. Third, respondents agree with the importance of a tolerant attitude ( $\mu = 3,92$ ).

Accessibility is the highest ranked hard location factor. The average score of 3,82 indicates a neutral-positive attitude towards the importance of accessibility.

Interestingly, cluster factors score low in comparison to the other factors ( $\mu = 3,64$ ). Knowledge exchange, access to specialized resources and proximity to labour markets are seen as less prominent reasons for respondents to locate in Amsterdam. The lowest average scores are found for the two hard location factors, economic policy and cost minimization. The economic policy factor shows a more spread distribution of scores (SD = 1,22). The median of 3 and mode of 5 point in different directions. Respondents attached the least importance to cost minimization ( $\mu = 3,52$ ).

To gain insight in the significance of these variations, a paired-samples t-test

was conducted for the seven factors. This test rejects or confirm the (null-)hypothesis that there is no significant differences between the means of two variables. With the application of a 95% confidence, we do not expect to find the measured difference in the greater population if the significance value is greater than 0,05 (Field, 2013). The paired comparison consisted of 21 pairs of factors<sup>19</sup>. The most valued factor, presence of social/personal/family contacts in the city, showed significant results in relation to all factors expect the urban factors. Thus, we do not expect to find the measured difference between the presence of social contacts ( $\mu = 4,16$ ) and urban factors ( $\mu = 4,13$ ) in the population. However, based on the significant results for the relationship with the other factors, we can conclude that the presence of personal/social/family contacts is the most important location factor for the decision to locate in Amsterdam.

The importance of the urban factors is also confirmed. Despite the presence of social contacts, all pairings with urban factors are significant. We can reject the null-hypothesis and assume that urban factors are the second most important factor to locate in Amsterdam. Pairings with the tolerance factor also show mainly significant results. Only the probability of the relation between accessibility and tolerance cannot be confirmed. Yet, tolerance proves to be more important for location decisions than other hard and cluster factors. The relation between the three hard location factors was not significant. Lastly, cluster factors are found significantly more important than cost minimization. Relation to the other two hard factors was not significant.

Figure 11: Statistics computed scale location factors Amsterdam.

|                        |         | Statistics         |                                   |               |                   |   |  |           |
|------------------------|---------|--------------------|-----------------------------------|---------------|-------------------|---|--|-----------|
|                        |         | Cluster advantages | Policy, subsidy or tax advantages | Accessibility | Cost minimization | Presence of personal/social/family contacts | Urban atmosphere and cultural facilities | Tolerance |
| N                      | Valid   | 145                | 132                               | 164           | 149               | 165   | 162                                      | 162       |
|                        | Missing | 31                 | 44                                | 12            | 27                | 11  | 14                                       | 14        |
| Mean                   |         | 3,6391             | 3,5682                            | 3,8171        | 3,5168            | 4,1576                                      | 4,1327                                   | 3,9198    |
| Median                 |         | 3,6667             | 3,0000                            | 4,0000        | 3,0000            | 4,0000                                      | 4,0000                                   | 4,0000    |
| Mode                   |         | 4,00               | 5,00                              | 4,00          | 3,00              | 5,00  | 5,00                                     | 4,00      |
| Std. Deviation         |         | ,82262             | 1,22439                           | ,94808        | 1,08182           | ,92362                                      | ,74724                                   | ,95214    |
| Skewness               |         | -,224              | ,068                              | -,369         | ,118              | -,837                                       | -,385                                    | -,450     |
| Std. Error of Skewness |         | ,201               | ,211                              | ,190          | ,199              | ,189  | ,191                                     | ,191      |

#### 4.3.2. Location factors for workplace

Figure 12 shows a comparison of means for the factors influencing the workplace decision. Four factors were used for the analyses, including price, flexibility and cluster factor, professional interaction and sphere/ surroundings of workplace. The most important factor for workplace decision is price. The median and mode of 4 shows that

<sup>19</sup> Appendix 7

respondents agree with the importance of price and rent. Next, respondents found the sphere and surrounding of the workplace most important. This factor includes both the appearance and the social interaction at the workspace. The standard deviation of 0,76 shows that respondent's scores are much alike. Professional interaction is ranked third, and shows the highest standard deviation. The importance of professional interaction diverges among respondents. The median and mode show a more neutral attitude towards this factor. Lowest scores are found for the factor 'flexibility and cluster' factor. 51 missing values indicate that a large group of respondents stated to have no opinion on this factor.

Figure 12: Statistics computed scale location factors workplace.

|                        |         | Statistics    |                                |                                       |                                     |
|------------------------|---------|---------------|--------------------------------|---------------------------------------|-------------------------------------|
|                        |         | Price or rent | Flexibility and cluster factor | Professional interaction at workspace | Sphere at/surroundings of workspace |
| N                      | Valid   | 156           | 125                            | 147                                   | 151                                 |
|                        | Missing | 20            | 51                             | 29                                    | 25                                  |
| Mean                   |         | 3,8782        | 3,5240                         | 3,5476                                | 3,8013                              |
| Median                 |         | 4,0000        | 3,5000                         | 3,5000                                | 4,0000                              |
| Mode                   |         | 4,00          | 3,00                           | 3,00                                  | 4,00                                |
| Std. Deviation         |         | ,93217        | ,85750                         | 1,04083                               | ,75736                              |
| Skewness               |         | -,480         | ,026                           | -,013                                 | -,166                               |
| Std. Error of Skewness |         | ,194          | ,217                           | ,200                                  | ,197                                |

A paired-samples t-test for these four factors was performed<sup>20</sup> to establish the significance of the differences between the factor means. Price shows a significant relationship with the flexibility factor and the professional interaction factor. It can be expected that the population attach higher relative importance to price. The relationship between price and sphere factor is not found significant and cannot be assumed to reflect the population. However, the significant relationship between the sphere and the other two factors confirms its importance. The relationship between professional interaction factor and the flexibility factor is found not significant, so it not confirmed that the found differences reflect the greater population.

Lastly, a paired-samples t-test<sup>21</sup> was performed to compare the importance of hard, cluster and soft variables for location in Amsterdam and location at the workplace. A comparison of the three hard location factors and the price factor shows that hard

<sup>20</sup> Appendix 7

<sup>21</sup> Appendix 7

factors are significantly more importance for the workplace decision than for choosing Amsterdam. Price or rent ( $\mu = 3,82$ ,  $SD = 0,95$ ) is more important than economic policy ( $\mu = 3,54$ ,  $SD = 1,22$ ),  $t(124) = -2,26$ ,  $p = 0,025$ . In addition, the price of rent of workplace ( $\mu = 3,86$ ,  $SD = 0,94$ ) is more important than cost minimization ( $\mu = 3,50$ ,  $SD = 1,10$ ),  $t(139) = -0,307$ ,  $p = 0,03$ . Cluster factors are more important for the decision to locate in Amsterdam than the proximity of others is for the workplace decision. Cluster factors ( $\mu = 3,69$ ,  $SD = 0,81$ ) scores significantly higher average scores than flexibility and presence of others at the workspace ( $\mu = 3,51$ ,  $SD = 0,84$ ),  $t(115) = 2,23$ ,  $p = 0,028$ . No significant relation was found between cluster factor and professional interaction at the workspace. Urban factors ( $\mu = 4,13$ ,  $SD = 0,75$ ) are significantly more important for choosing Amsterdam, than the sphere and surroundings ( $\mu = 3,81$ ,  $SD = 0,73$ ) are for the workplace choice,  $t(145) = 4,4$ ,  $p = 0,00$ . No significant relation was found between tolerance and the importance of sphere at the workplace.

#### **4.3.3. Controlling for demographics**

Several statistical analyses<sup>22</sup> were performed to check the change of relative importance of location factors when controlling for demographic variables at individual level. These demographic variables include: age (in groups), gender, working hours (in groups), sector, zip code area and duration of residence in Amsterdam. The firm size variable was excluded from analysis since the distribution showed a positive skew. An One-Way ANOVA analyses was used to compare the means of the age groups, working hours, sector and zip codes. Since the gender variable only consists of two groups, the means were compared using an independent-samples t-test.

There are no significant variations among age groups. Also, the working hours do not affect the importance of location factors. Organizations in more rural areas do not attach different importance to location factors than organization in inner city areas. The independent-samples t-test for gender showed a significant difference between men and women for the variable tolerance. On average, women ( $\mu = 4,09$ ,  $SD = 0,95$ ) attach more importance to tolerance than men ( $\mu = 3,71$ ,  $SD = 0,92$ ),  $t(132) = -2,02$ ,  $SD = 0,45$ . A comparison of sectors showed that the arts sector scored significantly higher on the urban location factors than the creative business services,  $F = 3,89$ ,  $df = 2, 153$ ,  $p = 0,22$ . Organizations that are located in Amsterdam for less than 5 years ( $\mu = 4,34$ ,  $SD = 0,57$ ) attach significantly more important to price and rent of workplace, than organization located in Amsterdam for 10-15 years ( $\mu = 3,74$ ,  $SD = 0,96$ ) and organizations located in Amsterdam for more than 15 years ( $\mu = 3,83$ ,  $SD = 0,97$ ),  $F = 3,67$ ,  $df = 2, 15$ ,  $p = 0,028$ .

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<sup>22</sup> Appendix 8

#### **4.4. Comparing workplaces**

The following section gives insight in the differences between workers at various workplaces in Amsterdam. As mentioned, there is a limited variation among type of workplaces. For that reason, the only feasible subdivision is a comparison of respondents working from 'home or home office' and 'office building or other business location'. The scores of workers at other locations are also examined, but since these groups include a rather small number of respondents, caution with generalization is appropriate. Also, it must be kept in mind that it is not feasible to directly determine the relation between the subdivisions, since the survey allowed for multiple response on the type of workplace.

##### **4.4.1. Working at home or home office**

An independent-samples t-test was conducted for all location factors (hard, cluster, soft) concerning the decision to work at home<sup>23</sup>. In addition, the average scores of home workers on their experienced benefits were compared to the average of non-home workers. Unfortunately, only a small degree of differences proves significant. Nevertheless, the results are worth discussing, since they give interesting information on our specific sample.

For the decision to locate in Amsterdam, creative workers that work from home show generally lower scores on location factors than non-home workers. Only on the accessibility and cost minimization factors home workers score higher means than non-home workers. The results of the independent-samples t-test show that none of the differences between home workers and non-home workers are significant. It can therefore be assumed that there is no significant difference between the importance of location factors for home workers and non-home workers.

An additional independent-samples t-test was conducted to compare the factors influencing workplace decision for home workers and non-home workers. Results show lower means for home workers than non-home workers. Again, limited results appear to show a significant difference between the groups. The only significant difference was found for the sphere and surroundings of the workplace,  $t(149) = 3,12$ ,  $p = 0,02$ . Home workers ( $\mu = 3,59$ ,  $SD = 0,79$ ) valued this factor slightly less than non-home workers ( $\mu = 3,97$ ,  $SD = 0,69$ ). In the sample, home workers ( $\mu = 3,90$ ,  $SD = 0,95$ ) score higher averages than non-home workers ( $\mu = 3,86$ ,  $SD = 0,91$ ) on the factor price,  $t(154) = -0,028$ ,  $p > 0,05$ . Non-significant results are found for the difference between home workers and non-home workers on flexibility and professional interaction at the

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<sup>23</sup> Appendix 9



workplace. On average, home workers in the sample ( $\mu = 3,42$ ,  $SD = 0,90$ ) value flexibility of space and the presence of others less than non-home workers ( $\mu = 3,59$ ,  $SD = 0,83$ ),  $t(123) = 1,05$ ,  $p > 0,05$ .

Figure 13: Statistics for home workers on all location factors and benefits.

|   |                   | Group Statistics |        |                |                 |
|---|-------------------|------------------|--------|----------------|-----------------|
|   | home/home office  | N                | Mean   | Std. Deviation | Std. Error Mean |
| Cluster advantages                                  | None home workers | 77               | 3,7489 | ,82921         | ,09450          |
|   | Home workers      | 68               | 3,5147 | ,80305         | ,09738          |
| Policy, subsidy or tax advantages                   | None home workers | 73               | 3,6712 | 1,25891        | ,14734          |
|   | Home workers      | 59               | 3,4407 | 1,17841        | ,15342          |
| Accessibility                                       | None home workers | 86               | 3,8140 | 1,01183        | ,10911          |
|   | Home workers      | 78               | 3,8205 | ,87895         | ,09952          |
| Cost minimization                                   | None home workers | 78               | 3,4487 | 1,15823        | ,13114          |
|   | Home workers      | 71               | 3,5915 | ,99395         | ,11796          |
| Presence of personal/social/family contacts         | None home workers | 85               | 4,2235 | ,94335         | ,10232          |
|   | Home workers      | 80               | 4,0875 | ,90279         | ,10094          |
| Urban atmosphere and cultural facilities            | None home workers | 83               | 4,1506 | ,74382         | ,08164          |
|   | Home workers      | 79               | 4,1139 | ,75511         | ,08496          |
| Tolerance   | None home workers | 83               | 3,9880 | ,95629         | ,10497          |
|   | Home workers      | 79               | 3,8481 | ,94853         | ,10672          |
| Price or rent                                       | None home workers | 85               | 3,8588 | ,95310         | ,10338          |
|   | Home workers      | 71               | 3,9014 | ,91269         | ,10832          |
| Flexibility of workspace and the presence of others | None home workers | 78               | 3,5865 | ,82850         | ,09381          |
|   | Home workers      | 47               | 3,4202 | ,90305         | ,13172          |
| Professional interaction at workspace               | None home workers | 82               | 3,6890 | ,98958         | ,10928          |
|   | Home workers      | 65               | 3,3692 | 1,08353        | ,13440          |
| Sphere at/surroundings of workspace                 | None home workers | 84               | 3,9683 | ,69348         | ,07566          |
|   | Home workers      | 67               | 3,5920 | ,78672         | ,09611          |
| Advantages from social and professional interaction | None home workers | 86               | 3,8895 | ,81674         | ,08807          |
|   | Home workers      | 75               | 3,3067 | 1,06826        | ,12335          |
| Increased amount of work                            | None home workers | 85               | 3,5529 | ,84875         | ,09206          |
|   | Home workers      | 73               | 3,2808 | ,86997         | ,10182          |
| More collaborations projects                        | None home workers | 85               | 3,3647 | ,98618         | ,10697          |
|   | Home workers      | 74               | 3,2568 | 1,17112        | ,13614          |
| Cost advantages                                     | None home workers | 87               | 3,4253 | 1,19721        | ,12835          |
|   | Home workers      | 77               | 3,5455 | 1,18705        | ,13528          |
| Personal_advantages                                 | None home workers | 86               | 4,1541 | ,55329         | ,05966          |
|   | Home workers      | 80               | 4,0094 | ,63076         | ,07052          |

To complement the factors influencing the decision to work at a specific workplace, respondents were asked to evaluate the benefits they experience from their workplace. Results show a significant difference between home workers and non-home workers on the benefits they experience from social and professional interaction,  $t(137,56) = 3,85$ ,  $p = 0,00$ . On average, home workers ( $\mu = 3,31$ ,  $SD = 1,07$ ) experience less benefit from social and professional interaction than non-home workers ( $\mu = 3,89$ ,  $SD = 0,82$ ). In the sample, home workers ( $\mu = 4,01$ ,  $SD = 0,63$ ) experience the most benefits from personal advantages of the workplace, including being motivated and concentrated. However, non-home workers are even slightly more positive ( $\mu = 4,15$ ,  $SD = 0,55$ ) about the personal advantages of their workplace. Again, this difference is not significant,  $t(164) = 1,57$ . In line with earlier finding, home workers in the sample ( $\mu=3,55$ ,  $SD=1,19$ ) suggest to experience slightly more cost advantages than non-home workers, ( $\mu=3,42$ ,  $SD =1,20$ ),  $t(162) = -,064$ ,  $p > 0,05$ .

In conclusion, results show limited significant differences between creative professionals that work from home and creative professionals that do not work from home. Analysis of the data only found significant results for the importance of 'sphere and surroundings of the workplace' and benefits from 'social and professional interaction'. Home workers attach less importance to the sphere and surroundings of the workspace than non-home workers meaning that the items 'representative appearance of the site' and the 'inspiring environment' are less relevant. This supports the suggestion that the decision to work from home is motivated by practical considerations and not by visual qualities of the home office. Home workers experience significantly less benefits from social and professional interaction at their workplace. This is not surprising since working at home minimizes the possibility for interaction with other creative workers.

#### **4.4.2. Working from office building or other business location**

An independent t-test was conducted comparing workers at business locations with workers not located at business locations for all factors influencing their location decision. Analysis of differences between creative workers that work at regular business offices and creative workers that are not located at such a location show no significant results. The urban location factors show the highest average scores for office building workers in the sample. Workers at a business location ( $\mu= 4,17$ ,  $SD =0,70$ ) value the image of the city and the presence of cultural amenities slightly more than workers at non business locations ( $\mu = 4,11$ ,  $SD = 0,77$ ),  $t(160) = -,046$ ,  $p > 0,05$ . Workers at

business locations score generally higher on the accessibility and economic policy factors. Cost minimization however is less important for workers at business locations ( $\mu = 3,50$ ,  $SD = 1,05$ ) than for workers that do not work at business locations ( $\mu = 3,53$ ,  $SD = 1,10$ ),  $t(147) = 0,14$ ,  $p > 0,05$ . Additionally, workers at business locations ( $\mu = 4,11$ ,  $SD = 1,012$ ) attach less value to the presence of personal social and family contacts in the city than workers that not work at business locations ( $\mu = 4,19$ ,  $SD = 0,877$ ),  $t(163) = 0,527$ ,  $p > 0,05$ . Even so, all workers seem to agree with the importance of this factor.

Figure 14: Statistics for office workers on all location factors and benefits.

| Group Statistics                                    |  |     |        |                |                 |
|---|--|-----|--------|----------------|-----------------|
|   | office building or other business location | N   | Mean   | Std. Deviation | Std. Error Mean |
| Cluster advantages                                  | No   | 92  | 3,6051 | ,84866         | ,08848          |
|   | Office workers                             | 53  | 3,6981 | ,77972         | ,10710          |
| Policy, subsidy or tax advantages                   | No   | 86  | 3,5116 | 1,20532        | ,12997          |
|   | Office workers                             | 46  | 3,6739 | 1,26587        | ,18664          |
| Accessibility                                       | No   | 106 | 3,7830 | ,93610         | ,09092          |
|   | Office workers                             | 58  | 3,8793 | ,97473         | ,12799          |
| Cost minimization                                   | No   | 97  | 3,5258 | 1,10012        | ,11170          |
|   | Office workers                             | 52  | 3,5000 | 1,05719        | ,14661          |
| Presence of personal/social/family contacts         | No   | 108 | 4,1852 | ,87700         | ,08439          |
|   | Office workers                             | 57  | 4,1053 | 1,01214        | ,13406          |
| Urban atmosphere and cultural facilities            | No   | 106 | 4,1132 | ,77239         | ,07502          |
|   | Office workers                             | 56  | 4,1696 | ,70244         | ,09387          |
| Tolerance   | No   | 106 | 3,9151 | ,94736         | ,09202          |
|   | Office workers                             | 56  | 3,9286 | ,96967         | ,12958          |
| Price or rent                                       | No   | 100 | 3,9300 | ,86754         | ,08675          |
|   | Office workers                             | 56  | 3,7857 | 1,03948        | ,13891          |
| Flexibility of workspace and the presence of others | No   | 75  | 3,5100 | ,89710         | ,10359          |
|   | Office workers                             | 50  | 3,5450 | ,80288         | ,11354          |
| Professional interaction at workspace               | No   | 92  | 3,5543 | 1,10059        | ,11474          |
|   | Office workers                             | 55  | 3,5364 | ,94209         | ,12703          |
| Sphere at/surroundings of workspace                 | No   | 94  | 3,7340 | ,78757         | ,08123          |
|   | Office workers                             | 57  | 3,9123 | ,69729         | ,09236          |
| Advantages from social and professional interaction | No   | 102 | 3,5294 | 1,01918        | ,10091          |
|   | Office workers                             | 59  | 3,7712 | ,90650         | ,11802          |
| Increased amount of work                            | No   | 100 | 3,3700 | ,90626         | ,09063          |
|   | Office workers                             | 58  | 3,5259 | ,79153         | ,10393          |
| More collaborations projects                        | No   | 100 | 3,3300 | 1,12864        | ,11286          |
|   | Office workers                             | 59  | 3,2881 | ,98350         | ,12804          |
| Cost advantages                                     | No   | 105 | 3,6095 | 1,17256        | ,11443          |
|   | Office workers                             | 59  | 3,2542 | 1,19760        | ,15591          |
| Personal advantages                                 | No   | 108 | 4,0648 | ,58841         | ,05662          |
|   | Office workers                             | 58  | 4,1207 | ,60922         | ,07999          |

In relation to the workplace, the independent-samples t-test shows no significant differences between the factors influencing the decision for this workplace. In the sample, the factor price is perceived slightly less important by business location workers ( $\mu = 3,79$ ,  $SD = 1,04$ ) than non business location workers ( $\mu = 3,93$ ,  $SD = 0,87$ ),  $t(97,99) = 0,88$ ,  $p > 0,05$ . Of all factors, highest average scores can be found on the factor sphere and surroundings of the workplace. Workers at business locations ( $\mu = 3,91$ ,  $SD = 0,69$ ) value this factor slightly more than workers not working at business locations ( $\mu = 3,73$ ,  $SD = 0,79$ ). Nevertheless, this difference is not significant,  $t(149) = -1,41$ ,  $p > 0,05$ .

Looking at the benefits that office location workers experience, highest average scores are found for the personal advantages. Office workers ( $\mu = 4,12$ ,  $SD = 0,61$ ) say to be slightly more motivated, inspired, concentrated and less alone than workers that do not work at an office location ( $\mu = 4,06$ ,  $SD = 0,59$ ). However, also this difference is not significant,  $t(164) = -0,58$ ,  $p > 0,05$ . In line with results on earlier hard factors, workers in office buildings are more neutral on the cost benefits they experience at their location. Office building workers ( $\mu = 3,25$ ,  $SD = 1,20$ ) score slightly less on this factors than non office building workers ( $\mu = 3,61$ ,  $SD = 1,17$ ).

Results show that there is no reason to assume that creative workers that mainly work from an office building or other office location attach more or less importance to certain location factors than worker that do not work at such a location. Means for this specific group of workers only show slightly lower average scores on the cost minimization factors. Since office spaces in Amsterdam are usually expensive, this is not a surprising result.

#### **4.4.3. Creative and flexible workplaces**

An independent-samples t-test was conducted for all the other types of workplaces. The most frequently used creative workplace 'art factory, studio or other workspace' ( $n = 24$ ) shows no significant results. Data only shows significant results for workers at co-working space and workers at incubators. However, the sample ( $n = 2$ ) of both groups in this study is too small to make accurate claims on basis of this effect. For completeness of the study; workers at coworking space ( $\mu = 5$ ,  $SD = 0$ ) attach significantly more importance to accessibility than non coworking space workers ( $\mu = 3,80$ ,  $SD = 0,94$ ),  $t(161) = -16,13$ ,  $p = 0,00$ . The presence of personal/social/family contacts is also significantly more important for workers at coworking spaces ( $\mu = 5$ ,  $SD = 0$ ) than workers that do not work there ( $\mu = 4,14$ ,  $SD = 0,92$ ),  $t(162) = -11,78$ ,  $p = 0,00$ . In addition, workers in coworking spaces ( $\mu = 2,5$ ,  $SD = 0,70$ ) attach significantly less important to tolerance than other workers ( $\mu = 3,93$ ,  $SD = 0,94$ ),  $t(160) = 2,15$ ,  $p = 0,03$ .

Workers at incubator ( $\mu = 4$ ,  $SD = 0$ ) attach significantly more importance to cluster factor than non incubator workers ( $\mu = 3,63$ ,  $SD = 0,83$ ),  $t(142) = -5,29$ ,  $p = 0,00$ . They also attach significantly more importance to flexibility ( $\mu = 4$ ,  $SD = 0$ ), than non incubator workers ( $\mu = 3,51$ ,  $SD = 0,86$ ),  $t(122) = -6,22$ ,  $p = 0,00$ . Professional interaction is more important for incubators workplace decision ( $\mu = 4$ ,  $SD = 0$ ) than for non-incubator workers ( $\mu = 3,54$ ,  $SD = 1,05$ ),  $t(144) = -5,28$ ,  $p = 0,00$ . Lastly, incubator workers ( $\mu = 2,5$ ,  $SD = 0,71$ ) attach significantly less importance to accessibility than creative workers that do not locate at incubators or start-up accelerators,  $t(162) = 1,99$ ,  $p = 0,048$ .

#### **4.4. Chapter summary**

Descriptive analysis identified a sample of predominantly male, senior entrepreneurs that are self-employed and mainly active in the creative business services sector of CI. The respondents generally work long hours and for the most part, work from home or an office location. Respondents have a strong connection to Amsterdam and work in the inner city. Overall, the respondents show a neutral, slightly positive attitude towards the individual indicators. For location decision in Amsterdam, the presence of social contacts in the city and urban factors (e.g. image of the city and the presence of cultural amenities) reveal the most importance. Second, cluster factors are valued most. The hard location factors reveal the least importance. For the workplace decision, the price factor is most important, closely followed by the sphere and surroundings of the workplace. The professional interaction and flexibility and cluster factors are valued significantly less. The roles of demographic background variables are limited. Small differences were found for gender and the importance of tolerance, and for sector and the importance of urban facilities. Organizations that are relatively new to the city attach more importance to the price and rent of the workplace than organization with a long history in Amsterdam. Finally, a comparison of workplaces showed minimal significance. In their choice for workplace, home workers put less value on sphere and surroundings. In addition, they benefit less from social and professional interaction. Other creative workplaces did not have enough representation to gain valuable results.

## 5. Conclusion

Urban regions are considered crucial for the creative economy. On the city level, local municipalities are particularly concerned with attracting and retaining the creative industries to these urban areas (Sleutjes, 2013). Flexible workplaces, temporary locations, creative business complexes, co-working spaces, hubs, incubators and start-up accelerators, offer workplaces more suitable to the flexible and mobile working patterns of the creative professionals (Moriset, 2014). In spite of the ongoing debate on hard vs. soft location factors, little is known about the role these location factors play in a creative organization's decisions for workplace.

A compact literature study resulted in three scales measuring hard, cluster and soft location factors. By comparing these scales, this thesis aimed to answer the question: what is the relative importance of hard, cluster and soft location factors for the location decision of creative organization in Amsterdam? The Statistical Bureau of Amsterdam kindly allowed the use of their business panel to conduct a survey measuring the attitude of creative organizations towards the hard, cluster and soft location factors. The sample of 176 organizations active in the CI in Amsterdam is regarded to be representative for the population of CI in Amsterdam. However, cautiousness is advised when using insights and conclusions from this study for other cities. Data analysis of survey results show significant differences in the relevance of hard, soft and cluster factors as well as a difference between their value for workplace decision and location in Amsterdam.

Wrapping up the main findings of the empirical study, the following conclusions stand out. First, social capital and urban location factors are dominant factors determining the decision to locate in Amsterdam. People move to Amsterdam because of their social ties to the area, the image of the city and the presence of high quality cultural amenities. It seems that soft locations are not a secondary issue for creative organizations in Amsterdam. The hypothesis that hard factors would be more important is rejected. However, this result does not directly confirm Florida's assumption that 'work follows people'. In Amsterdam, most creative organizations seem to carry out their jobs from within the comfort of the home/home offices. This puts further emphasis on the importance of social, personal and family ties to the city. Respondents commented in the survey to simply have been living in Amsterdam for a while and therefore, location of their organization naturally resulted from their residence. Work is not necessarily following people; people follow other people to a city from where they carry out their work. Since most of the organizations are self-employed, they create their own jobs.

Second, the choice for location within the city is determined by both hard and soft location factors. Although data analysis showed a slightly more positive attitude towards the factor price, differences in means are small and not significant. Thus, the relative importance of hard and soft location factors in the workplace remains ambiguous. In all probability, creative organizations do not focus on one or the other, but are triggered by a combination of the price, sphere and surroundings of a workplace. Yet, it can be assumed that the presence of others in the workplace is significantly less important for workplace decisions than the hard and soft location factors. The second hypothesis is therefore also rejected. Creative organizations in Amsterdam value the price of their workplace and the appearance of their location above the ability to share facilities, access information and knowledge from others, or professionally interact to get feedback or build a network.

Third, creative organizations in Amsterdam are characterized by self-employed individuals. Creative professionals make little use of the co working options in the city. Instead, the self-employed freelancers work from home. Home workers put little emphasis on the representative and inspiring environment of their workplace and value social interaction less. The decision to work from home is motivated by practical considerations. Not surprisingly, home workers also experience less benefits from social and professional interaction. Whether home workers see this as a disadvantage is questionable.

In contrast to expectations, creative professionals work by themselves from home or an office building. Workplaces with an explicit focus on creativity and flexibility are not frequently used. To gain further understanding of underlying motivations, it is advisable to supplement these findings with qualitative research. Also, a replication of this study for a larger sample, with an higher distribution of age groups, can validate the results. Based on comparison of the relative importance of hard, cluster and soft location factors this study concludes that creative organizations appreciate the urban characteristics of the greater Amsterdam cluster more than they attach importance to proximity of others in the workplace. When it comes to workplace decisions, economic rationale and practical considerations play a more important role. In other words, it seems that the whole is greater than the sum of its parts.

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## Appendix 1: Overview SBI-codes creative industries

| <b>Creative industries SBI 2008</b> |                               |  |  |   |
|-------------------------------------|-------------------------------|--|--|---|
| <b>Sector</b>                       | <b>Branch</b>                 | <b>Codes</b>                               | <b>English translation</b>                       |   |
| Arts                                | Performing arts               | 90011 Beoefening van podiumkunst           | Cultivation of performing arts                   |   |
|                                     |                               | 90012 Producenten van podiumkunst          | Producers of performing arts                     |   |
|                                     |                               | 90041 Theaters en schouwburgen             | Theatres and performance venues                  |   |
|                                     | Visual arts                   | 9003 Scheppende kunst                      | Writing and other creative arts                  |   |
|                                     |                               | 91022 Kunstgaleries en expositieruimten    | Art galleries and exhibition spaces              |   |
|                                     | Other arts and hertige        | 9002 Diensten voor uitvoerende kunst       | Services of the performing arts                  |   |
|                                     |                               | 94993 Fondsen (niet voor welzijnszorg)     | Support funds                                    |   |
|                                     |                               | 94994 Vriendenkringen van cultuur          | Friend groups in the field of culture, fan clubs |   |
|                                     |                               | 7990 Reisinformatie- en reserveerbureaus   | Information in the field of tourism              |   |
|                                     | Cultural heritage             | 91011 Openbare bibliotheken                | Public libraries                                 |   |
|                                     |                               | 91012 Kunstuitleencentra                   | Art centers                                      |   |
|                                     |                               | 91019 Openbare archieven                   | Other lending cultural centers and archives      |   |
|                                     |                               | 91021 Musea                                | Museums  |   |
|                                     |                               | 9103 Monumentenzorg                        | Cultural heritage preservation                   |   |
|                                     |                               | 59112 Productie van televisieprogramma's   | Production of television programs                |   |
|                                     | Media & entertainment         | Radio and television                       | 5912 Facilitaire diensten voor film, tv          | Facilities for film and television production |
|                                     |                               |  | 6010 Radio-omroepen                              | Radio broadcasting                            |
| 6020 Televisieomroepen              |                               |  | Television broadcasting                          |   |
| Press media                         |                               | 5813 Uitgeverijen van kranten              | Newspaper publishing                             |   |
|                                     |                               | 5814 Uitgeverijen van tijdschriften        | Journal publishing                               |   |
|                                     |                               | 6391 Persagentschappen                     | News agencies                                    |   |
|                                     |                               | 74201 Fotografie                           | Photography                                      |   |
| Film                                |                               | 6399 Overige informatievoorziening         | Other information services                       |   |
|                                     |                               | 59111 Filmproductie, geen televisiefilms   | Film Production (except series)                  |   |
|                                     |                               | 5913 Distributie films en tv-producties    | Distribution of films and television production  |   |
|                                     |                               | 5914 Bioscopen                             | Cinemas  |   |
| Music industry                      |                               | 5920 Maken en uitgeven geluidsopnamen      | Creation and publishing of sound recordings      |   |
| Book industry                       |                               | 5811 Uitgeverijen van boeken               | Book publishing                                  |   |
| Other publishers                    |                               | 5819 Overige uitgeverijen, geen software   | Other publishing                                 |   |
|                                     |                               | 5821 Uitgeverijen van computergames        | Computer games                                   |   |
| Live entertainment                  |                               | 5829 Software-uitgeverijen, geen games     | Software   |   |
|                                     |                               | 93211 Pret- en themaparken                 | Amusement and theme parks                        |   |
|                                     | 93212 Kermisattracties        | Fairground attraction                      |  |   |
|                                     | 90013 Circus en variete       | Circus and variety shows                   |  |   |
| Creative business services          | Design                        | 7111 Architectenbureaus                    | Architecture                                     |   |
|                                     |                               | 71112 Interieurarchitecten                 | Interior architect                               |   |
|                                     |                               | 7410 Industrieel ontwerp                   | Industrial designer                              |   |
|                                     |                               | 74101 Communicatie- en grafisch ontwerp    | Communication and graphic designer               |   |
|                                     | Communication and information | 74103 Interieur- en ruimtelijk ontwerp     | Spatial design                                   |   |
|                                     |                               | 7021 Public relationsbureaus               | Public relations agencies                        |   |
|                                     |                               | 7312 Handel in advertentieruimte           | Trade of advertising space                       |   |
|                                     |                               | 7311 Reclamebureaus                        | Advertising agencies                             |   |
|                                     |                               | 8230 Organiseren van congressen en beurzen | Organization of conferences and fairs            |   |

## Appendix 2: Overview of variables.

| Independent variables  | Dependent variables  |
|--|--|
| <ul style="list-style-type: none"> <li>• Location factors on city level;               <ul style="list-style-type: none"> <li>- Hard factors</li> <li>- Cluster factors</li> <li>- Soft factors</li> </ul> </li> <li>• Location factors on workspace level;               <ul style="list-style-type: none"> <li>- Hard factors</li> <li>- Cluster factors</li> <li>- Soft factors</li> </ul> </li> <li>• Benefits of workspace;               <ul style="list-style-type: none"> <li>- Personal benefits</li> <li>- Social benefits</li> <li>- Economic benefits</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Location decision to settle in Amsterdam</li> </ul> |
| <b>Control variables</b>   |  |
| <ul style="list-style-type: none"> <li>• Location (zip-code)</li> <li>• Type of location</li> <li>• Type of contract</li> <li>• Date of location at current workspace</li> <li>• Number of relocations</li> <li>• Sector</li> <li>• Main activity</li> </ul>   |  |
| <b>Control variables from secondary data</b>   |  |
| <ul style="list-style-type: none"> <li>• Age</li> <li>• Gender</li> <li>• Working hours</li> <li>• Number of employees</li> <li>• Legal status</li> <li>• Date of location in Amsterdam</li> </ul>   |  |

Appendix 3.1: Survey English.

-----

**1. What is your organizations current location?**

Postal code: (xxxx xx)

**2. At what type of location is your organization currently located?**

Location type (multiple answers possible):

- (1) office building or other business location
- (2) coworking space or hub (eg. Spaces, Thinkinghut, Impact Hub)
- (3) flexible workplaces (eg. at a company with extra room)
- (4) creative business complex (eg. Alab, Beehive)
- (5) broedplaats/studio/workspace (eg. NDSM)
- (6) anti-squatting or temporary location (eg. Lola Loud)
- (7) incubator/startup accelerator (eg. Rockstart)
- (8) public space (eg. cafe, library)
- (9) home/home office
- (10) other, namely:

**3. Could you give the name of your current location?**

**4. When did your organization locate here?**

My company is based on the current location since (value: month-year).

**5. How often has your organization changed location?**

(Value)

**6. What type of contract do you have for your location?**

- (1) temporary lease (less than 1 year)
- (2) lease for a fixed term (1-5 years)
- (3) lease indefinitely
- (4) sale contract
- (5) other, namely: (value)

**7. To what extent do you agree with the following statements about your office in Amsterdam?**

(5-point Likert scale: strongly disagree - strongly agree)

I chose to locate my organization in Amsterdam, because of...

1. economic policy of the municipality, subsidies and tax breaks.
2. accessibility (i.e. public transport).
3. minimizing transport, labour and supplier costs.
4. knowledge exchange with consumers, competitors and strategic organizations.
5. access to specialized resources, supply and complementary services.
6. proximity to labour market and educational institutions with potential employees.
7. presence of personal / social / family contacts in the city.
8. the image of the city.
9. presence of cultural facilities and activities.
10. tolerant attitude for ethnic, cultural and lifestyle diversity.

**8. To what extent do you agree with the following statements about your organizations location?**

(5-point Likert scale: strongly disagree - strongly agree)

I chose to locate my organization at its current location because of...

1. price or rent.
2. flexibility of lease.
3. the ability to share facilities.
4. flexible use of space.
5. access to information and knowledge from others.
6. representative and professional appearance of the site.
7. inspiring environment.
8. social interaction.
9. professional interaction to get feedback or to build a network.
10. collaboration and/or professional partnerships.

**9. To what extent do you agree with the following statements about the benefits you encounter on your location?**

(5-point Likert scale: strongly disagree - strongly agree)



At my current location ...

1. I am motivated.
2. I feel creative / inspired.
3. I work efficient and concentrated.
4. I do not feel alone / lonely during my work.
5. I experience advantage of social interaction.
6. I experience benefit from professional collaborations.
7. the amount of work increased.
8. the number collaborations with other organizations increased.
9. the turnover of my business increased.
10. the location costs of my organization decreased.

**10. Finally, could you fill in this general information about your organization?**

In which sector are you active?

- (1) Arts
- (2) Media & Entertainment
- (3) Creative business services

Main activity: (text)

## Appendix 3.2: Survey Dutch

-----

### **Bedankt voor uw tijd!**

Creatieve ondernemers werken overal in de stad, maar waar precies? En waarom? Deze vragenlijst draagt bij aan onderzoek naar tijdelijke en flexibele werklocaties van creatieve organisaties in Amsterdam.

De vragen in dit onderzoek gaan over uw huidige locatie, dat wil zeggen de fysieke plek waar u het grootste gedeelte van uw werk verricht of waar uw organisatie gevestigd is (bijv. een kantoorpand, of flexibele werkplek).

Het invullen zal niet meer dan vijf minuten in beslag nemen. Alvast bedankt.

*U kunt tot en met donderdag 23 april reageren.*

### **1. Wat is uw huidige locatie?**

Postcode: (xxxx xx)

### **2. In welk type locatie bevindt u zich?**

Type locatie (meerdere antwoorden mogelijk):

- (1) kantoorpand of andere bedrijfslocatie
- (2) coworking space of hub (bijv. Spaces, Thinkinghut, Impact Hub)
- (3) flexibele werkplekken (bijv. bij een bedrijf met extra ruimte)
- (4) creatief bedrijfsverzamelgebouw (bijv. Alab, Beehive)
- (5) broedplaats/atelier/werkpand (bijv. NDSM-werf)
- (6) antikraak of tijdelijke locatie (bijv. Lola Luid)
- (7) incubator/startup accelerator (bijv. Rockstart)
- (8) publieke ruimte (bijv. café, bibliotheek)
- (9) thuis/kantoor aan huis
- (10) anders, namelijk:

### **3. Wat is de naam van uw locatie?**

### **4. Wanneer heeft uw bedrijf zich hier gevestigd?**

Mijn bedrijf is gevestigd op de huidige locatie sinds (value: maand-jaar).

### **5. Hoe vaak is uw organisatie van locatie veranderd?**

(value)

**6. Welk type contract heeft u voor uw locatie?**

- (1) tijdelijk huurcontract (minder dan 1 jaar)
- (2) huurcontract voor bepaalde tijd (1-5 jaar)
- (3) huurcontract voor onbepaalde tijd
- (4) koop contract
- (5) anders, namelijk: (value)

**7. In hoeverre bent u het eens met de volgende stellingen over uw vestiging in Amsterdam?** (5-punt Likert-schaal: helemaal oneens – helemaal eens)

Ik heb gekozen mijn organisatie in Amsterdam te vestigen, vanwege..

1. het economisch beleid van de gemeente, subsidies en belastingvoordelen
2. bereikbaarheid
3. kostenbesparing op transport, arbeid en leveranciers
4. kennisuitwisseling met consumenten, concurrenten en strategische organisaties
5. toegang tot gespecialiseerde bedrijven en diensten
6. aanwezigheid arbeidsmarkt en onderwijsinstellingen met mogelijk nieuwe medewerkers
7. aanwezigheid van persoonlijke/sociale/familiare contacten in de stad
8. het imago van de stad
9. aanwezigheid culturele voorzieningen en activiteiten
10. tolerante houding van inwoners voor etnische, culturele en lifestyle diversiteit

**8. In hoeverre bent u het eens met de volgende stellingen over uw werklocatie?** (5-punt Likert-schaal: helemaal oneens – helemaal eens)

Ik heb gekozen mijn organisatie op mijn huidige locatie te vestigen, vanwege..

1. de prijs of huur
2. de flexibiliteit van huurcontract
3. de mogelijkheid faciliteiten te delen
4. het flexibel gebruik van ruimten
5. de toegang tot informatie en kennis van anderen
6. de representatieve en professionele uitstraling van de locatie
7. inspirerende omgeving in een mooi gebouw
8. de sociale interactie voor de gezelligheid
9. de professionele interactie om feedback te krijgen of een netwerk op te bouwen
10. het samenwerken met professionele partners

**9. In hoeverre bent u het eens met de volgende stellingen over voordelen die u ondervindt op uw locatie?** (5-punt Likert-schaal: helemaal oneens – helemaal eens)

Op mijn huidige locatie...

1. ben ik gemotiveerd.
2. ben ik creatief/geïnspireerd.
3. werk ik efficiënt en geconcentreerd
4. voel ik mij niet eenzaam tijdens mijn werk.
5. ondervind ik voordeel van sociale interactie
6. ondervind ik voordeel van professionele samenwerkingen
7. is de hoeveelheid werk toegenomen
8. heb ik meer samenwerkingspartners
9. is de omzet van mijn organisatie toegenomen.
10. zijn de locatiekosten van mijn organisatie afgenomen.

**10. Zou u tenslotte nog deze algemene gegevens aangaande uw organisatie willen invullen?**

In welke sector bent u actief?

(1) Kunsten      (2) Media & Entertainment      (3) Creatieve zakelijke dienstverlening

Hoofdactiviteit: (tekst)

## Appendix 4: Factor and reliability analysis

### Factor Analysis

#### KMO and Bartlett's Test

|  |                    |         |
|--|--------------------|---------|
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. |                    | ,814    |
|  | Approx. Chi-Square | 345,318 |
| Bartlett's Test of Sphericity                    | df                 | 45      |
|  | Sig.               | ,000    |

#### Communalities

|  | Initial | Extraction |
|--|---------|------------|
| economic policy of the municipality, subsidies and tax breaks                    | 1,000   | ,777       |
| accessibility  | 1,000   | ,573       |
| minimizing transport, labour and supplier costs                                  | 1,000   | ,599       |
| knowledge exchange with consumers, competitors and strategic organizations       | 1,000   | ,591       |
| access to specialized resources, supply and complementary services               | 1,000   | ,753       |
| proximity to labour market and educational institutions with potential employees | 1,000   | ,736       |
| presence of personal / social / family contacts in the city                      | 1,000   | ,370       |
| image of the city  | 1,000   | ,656       |
| presence of cultural facilities and activities                                   | 1,000   | ,690       |
| tolerant attitude for ethnic, cultural and lifestyle diversity                   | 1,000   | ,403       |

Extraction Method: Principal Component Analysis.

#### Total Variance Explained

| Component | Initial Eigenvalues |               |              | Extraction Sums of Squared Loadings |               |              | Rotation Sums of Squared Loadings |
|-----------|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|-----------------------------------|
|           | Total               | % of Variance | Cumulative % | Total                               | % of Variance | Cumulative % | Total                             |
| 1         | 3,773               | 37,730        | 37,730       | 3,773                               | 37,730        | 37,730       | 2,334                             |
| 2         | 1,353               | 13,526        | 51,257       | 1,353                               | 13,526        | 51,257       | 1,916                             |
| 3         | 1,023               | 10,230        | 61,486       | 1,023                               | 10,230        | 61,486       | 1,899                             |
| 4         | ,876                | 8,757         | 70,243       |                                     |               |              |                                   |
| 5         | ,682                | 6,817         | 77,061       |                                     |               |              |                                   |
| 6         | ,605                | 6,054         | 83,114       |                                     |               |              |                                   |
| 7         | ,527                | 5,270         | 88,384       |                                     |               |              |                                   |
| 8         | ,456                | 4,555         | 92,939       |                                     |               |              |                                   |
| 9         | ,415                | 4,152         | 97,091       |                                     |               |              |                                   |
| 10        | ,291                | 2,909         | 100,000      |                                     |               |              |                                   |

#### Total Variance Explained

| Component | Rotation Sums of Squared Loadings |              |
|-----------|-----------------------------------|--------------|
|           | % of Variance                     | Cumulative % |
| 1         | 23,342                            | 23,342       |
| 2         | 19,157                            | 42,499       |
| 3         | 18,987                            | 61,486       |
| 4         |                                   |              |
| 5         |                                   |              |
| 6         |                                   |              |
| 7         |                                   |              |
| 8         |                                   |              |
| 9         |                                   |              |
| 10        |                                   |              |

Extraction Method: Principal Component Analysis.

**Component Matrix<sup>a</sup>**

|  | Component |       |       |
|--|-----------|-------|-------|
|  | 1         | 2     | 3     |
| economic policy of the municipality, subsidies and tax breaks                    | ,412      | ,778  | ,044  |
| accessibility  | ,515      | -,038 | ,553  |
| minimizing transport, labour and supplier costs                                  | ,605      | ,342  | ,339  |
| knowledge exchange with consumers, competitors and strategic organizations       | ,667      | -,028 | -,382 |
| access to specialized resources, supply and complementary services               | ,801      | -,151 | -,298 |
| proximity to labour market and educational institutions with potential employees | ,673      | ,259  | -,466 |
| presence of personal / social / family contacts in the city                      | ,470      | ,201  | ,330  |
| image of the city  | ,670      | -,428 | ,154  |
| presence of cultural facilities and activities                                   | ,602      | -,560 | ,117  |
| tolerant attitude for ethnic, cultural and lifestyle diversity                   | ,633      | -,020 | -,047 |

Extraction Method: Principal Component Analysis.<sup>a</sup>

a. 3 components extracted.

**Rotated Component Matrix<sup>a</sup>**

|  | Component |       |      |
|--|-----------|-------|------|
|  | 1         | 2     | 3    |
| economic policy of the municipality, subsidies and tax breaks                    | ,372      | -,416 | ,682 |
| accessibility  | -,044     | ,455  | ,604 |
| minimizing transport, labour and supplier costs                                  | ,230      | ,124  | ,728 |
| knowledge exchange with consumers, competitors and strategic organizations       | ,726      | ,237  | ,095 |
| access to specialized resources, supply and complementary services               | ,739      | ,429  | ,150 |
| proximity to labour market and educational institutions with potential employees | ,833      | -,019 | ,205 |
| presence of personal / social / family contacts in the city                      | ,121      | ,169  | ,572 |
| image of the city  | ,287      | ,727  | ,213 |
| presence of cultural facilities and activities                                   | ,245      | ,790  | ,080 |
| tolerant attitude for ethnic, cultural and lifestyle diversity                   | ,466      | ,316  | ,294 |

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.<sup>a</sup>

a. Rotation converged in 6 iterations.

**Component Transformation Matrix**

| Component | 1     | 2     | 3    |
|-----------|-------|-------|------|
| 1         | ,688  | ,495  | ,530 |
| 2         | ,154  | -,814 | ,560 |
| 3         | -,709 | ,304  | ,637 |

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

**Reliability**

Scale: ALL VARIABLES

**Case Processing Summary**

|       |                       | N   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 129 | 73,3  |
|       | Excluded <sup>a</sup> | 47  | 26,7  |
|       | Total                 | 176 | 100,0 |

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

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| ,568             | 3          |

**Reliability**

Scale: ALL VARIABLES

**Case Processing Summary**

|       |                       | N   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 145 | 82,4  |
|       | Excluded <sup>a</sup> | 31  | 17,6  |
|       | Total                 | 176 | 100,0 |

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

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| ,809             | 3          |

**Reliability**

Scale: ALL VARIABLES

**Case Processing Summary**

|       |                       | N   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 156 | 88,6  |
|       | Excluded <sup>a</sup> | 20  | 11,4  |
|       | Total                 | 176 | 100,0 |

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

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| ,672             | 4          |

**Reliability**

Scale: ALL VARIABLES

**Case Processing Summary**

|       |                       | N   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 158 | 89,8  |
|       | Excluded <sup>a</sup> | 18  | 10,2  |
|       | Total                 | 176 | 100,0 |

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

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| ,690             | 3          |

**Factor Analysis**

**KMO and Bartlett's Test**

|  |      |         |
|--|------|---------|
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. |      | ,758    |
| Approx. Chi-Square                               |      | 516,776 |
| Bartlett's Test of Sphericity                    | df   | 45      |
|  | Sig. | ,000    |

**Communalities**

|  | Initial | Extraction |
|--|---------|------------|
| price or rent  | 1,000   | ,408       |
| flexibility of lease   | 1,000   | ,551       |
| the ability to share facilities                                | 1,000   | ,710       |
| flexible use of space  | 1,000   | ,687       |
| access to information and knowledge from others                | 1,000   | ,590       |
| representative and professional appearance of the site.        | 1,000   | ,575       |
| inspiring environment  | 1,000   | ,757       |
| social interaction   | 1,000   | ,648       |
| professional interaction to get feedback or to build a network | 1,000   | ,894       |
| collaboration and/or professional partnerships                 | 1,000   | ,868       |

Extraction Method: Principal Component Analysis.

**Total Variance Explained**

| Component | Initial Eigenvalues |               |              | Extraction Sums of Squared Loadings |               |              | Rotation Sums of Squared Loadings |
|-----------|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|-----------------------------------|
|           | Total               | % of Variance | Cumulative % | Total                               | % of Variance | Cumulative % | Total                             |
| 1         | 4,056               | 40,560        | 40,560       | 4,056                               | 40,560        | 40,560       | 2,519                             |
| 2         | 1,513               | 15,131        | 55,691       | 1,513                               | 15,131        | 55,691       | 2,196                             |
| 3         | 1,118               | 11,177        | 66,868       | 1,118                               | 11,177        | 66,868       | 1,972                             |
| 4         | ,876                | 8,759         | 75,626       |                                     |               |              |                                   |
| 5         | ,697                | 6,968         | 82,594       |                                     |               |              |                                   |
| 6         | ,598                | 5,983         | 88,577       |                                     |               |              |                                   |
| 7         | ,385                | 3,848         | 92,425       |                                     |               |              |                                   |
| 8         | ,321                | 3,206         | 95,631       |                                     |               |              |                                   |
| 9         | ,295                | 2,952         | 98,583       |                                     |               |              |                                   |
| 10        | ,142                | 1,417         | 100,000      |                                     |               |              |                                   |

**Total Variance Explained**

| Component | Rotation Sums of Squared Loadings |              |
|-----------|-----------------------------------|--------------|
|           | % of Variance                     | Cumulative % |
| 1         | 25,191                            | 25,191       |
| 2         | 21,957                            | 47,148       |
| 3         | 19,719                            | 66,868       |
| 4         |                                   |              |
| 5         |                                   |              |
| 6         |                                   |              |
| 7         |                                   |              |
| 8         |                                   |              |
| 9         |                                   |              |
| 10        |                                   |              |

Extraction Method: Principal Component Analysis.

**Component Matrix<sup>a</sup>**

|  | Component |       |       |
|--|-----------|-------|-------|
|  | 1         | 2     | 3     |
| price or rent  | ,377      | ,439  | -,271 |
| flexibility of lease   | ,517      | ,488  | ,213  |
| the ability to share facilities                                | ,706      | ,417  | ,193  |
| flexible use of space  | ,675      | ,435  | ,206  |
| access to information and knowledge from others                | ,727      | ,181  | -,169 |
| representative and professional appearance of the site.        | ,498      | -,481 | ,307  |
| inspiring environment  | ,550      | -,426 | ,522  |
| social interaction   | ,725      | -,300 | ,180  |
| professional interaction to get feedback or to build a network | ,738      | -,314 | -,501 |
| collaboration and/or professional partnerships                 | ,737      | -,291 | -,491 |

Extraction Method: Principal Component Analysis.<sup>a</sup>

a. 3 components extracted.

**Rotated Component Matrix<sup>a</sup>**

|  | Component |      |       |
|--|-----------|------|-------|
|  | 1         | 2    | 3     |
| price or rent  | ,507      | ,297 | -,249 |
| flexibility of lease   | ,736      | ,005 | ,095  |
| the ability to share facilities                                | ,799      | ,154 | ,218  |
| flexible use of space  | ,795      | ,121 | ,200  |
| access to information and knowledge from others                | ,560      | ,506 | ,142  |
| representative and professional appearance of the site.        | ,024      | ,209 | ,728  |
| inspiring environment  | ,144      | ,064 | ,856  |
| social interaction   | ,276      | ,386 | ,650  |
| professional interaction to get feedback or to build a network | ,128      | ,907 | ,236  |
| collaboration and/or professional partnerships                 | ,147      | ,891 | ,229  |

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.<sup>a</sup>

a. Rotation converged in 5 iterations.

**Component Transformation Matrix**

| Component | 1    | 2     | 3     |
|-----------|------|-------|-------|
| 1         | ,635 | ,596  | ,492  |
| 2         | ,743 | -,294 | -,601 |
| 3         | ,214 | -,747 | ,629  |

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

**Reliability**

Scale: ALL VARIABLES

**Case Processing Summary**

|       |                       | N   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 127 | 72,2  |
|       | Excluded <sup>a</sup> | 49  | 27,8  |
|       | Total                 | 176 | 100,0 |

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



**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| ,601             | 3          |

**Reliability**

Scale: ALL VARIABLES

**Case Processing Summary**

|       |                       | N   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 139 | 79,0  |
|       | Excluded <sup>a</sup> | 37  | 21,0  |
|       | Total                 | 176 | 100,0 |

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

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| ,710             | 4          |

**Reliability**

Scale: ALL VARIABLES

**Case Processing Summary**

|       |                       | N   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 148 | 84,1  |
|       | Excluded <sup>a</sup> | 28  | 15,9  |
|       | Total                 | 176 | 100,0 |

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

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| ,715             | 3          |

**Reliability**

Scale: ALL VARIABLES

**Case Processing Summary**

|       |                       | N   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 125 | 71,0  |
|       | Excluded <sup>a</sup> | 51  | 29,0  |
|       | Total                 | 176 | 100,0 |

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

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| ,773             | 5          |

**Reliability**

Scale: ALL VARIABLES

**Case Processing Summary**

|       |                       | N   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 147 | 83,5  |
|       | Excluded <sup>a</sup> | 29  | 16,5  |
|       | Total                 | 176 | 100,0 |

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

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| ,904             | 2          |

**Factor Analysis**

**KMO and Bartlett's Test**

|  |      |         |
|--|------|---------|
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. |      | ,746    |
| Approx. Chi-Square                               |      | 641,196 |
| Bartlett's Test of Sphericity                    | df   | 45      |
|  | Sig. | ,000    |

**Communalities**

|  | Initial | Extraction |
|--|---------|------------|
| I am motivated   | 1,000   | ,816       |
| I feel creative / inspired                                   | 1,000   | ,813       |
| I work efficient and concentrated                            | 1,000   | ,713       |
| I do not feel alone / lonely during my work                  | 1,000   | ,649       |
| I experience advantage of social interaction                 | 1,000   | ,808       |
| I experience benefit from professional collaborations        | 1,000   | ,770       |
| the amount of work increased                                 | 1,000   | ,784       |
| the number collaborations with other organizations increased | 1,000   | ,675       |
| the turnover of my business increased                        | 1,000   | ,746       |
| the location costs of my organization decreased.             | 1,000   | ,212       |

Extraction Method: Principal Component Analysis.

**Total Variance Explained**

| Component | Initial Eigenvalues |               |              | Extraction Sums of Squared Loadings |               |              | Rotation Sums of Squared Loadings |
|-----------|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|-----------------------------------|
|           | Total               | % of Variance | Cumulative % | Total                               | % of Variance | Cumulative % | Total                             |
| 1         | 3,659               | 36,585        | 36,585       | 3,659                               | 36,585        | 36,585       | 2,701                             |
| 2         | 1,985               | 19,853        | 56,439       | 1,985                               | 19,853        | 56,439       | 2,439                             |
| 3         | 1,343               | 13,429        | 69,868       | 1,343                               | 13,429        | 69,868       | 1,847                             |
| 4         | ,878                | 8,778         | 78,645       |                                     |               |              |                                   |
| 5         | ,571                | 5,705         | 84,351       |                                     |               |              |                                   |
| 6         | ,463                | 4,626         | 88,977       |                                     |               |              |                                   |
| 7         | ,390                | 3,899         | 92,876       |                                     |               |              |                                   |
| 8         | ,325                | 3,251         | 96,127       |                                     |               |              |                                   |
| 9         | ,220                | 2,205         | 98,331       |                                     |               |              |                                   |
| 10        | ,167                | 1,669         | 100,000      |                                     |               |              |                                   |

**Total Variance Explained**

| Component | Rotation Sums of Squared Loadings |              |
|-----------|-----------------------------------|--------------|
|           | % of Variance                     | Cumulative % |
| 1         | 27,011                            | 27,011       |
| 2         | 24,390                            | 51,401       |
| 3         | 18,467                            | 69,868       |
| 4         |                                   |              |
| 5         |                                   |              |
| 6         |                                   |              |
| 7         |                                   |              |
| 8         |                                   |              |
| 9         |                                   |              |
| 10        |                                   |              |

Extraction Method: Principal Component Analysis.

**Component Matrix<sup>a</sup>**

|  | Component |       |       |
|--|-----------|-------|-------|
|  | 1         | 2     | 3     |
| I am motivated   | ,685      | -,550 | ,210  |
| I feel creative / inspired                                   | ,688      | -,552 | ,188  |
| I work efficient and concentrated                            | ,635      | -,544 | ,117  |
| I do not feel alone / lonely during my work                  | ,662      | -,260 | -,378 |
| I experience advantage of social interaction                 | ,720      | ,251  | -,475 |
| I experience benefit from professional collaborations        | ,665      | ,383  | -,425 |
| the amount of work increased                                 | ,533      | ,391  | ,589  |
| the number collaborations with other organizations increased | ,545      | ,615  | -,007 |
| the turnover of my business increased                        | ,440      | ,459  | ,585  |
| the location costs of my organization decreased.             | ,371      | ,252  | -,106 |

Extraction Method: Principal Component Analysis.<sup>a</sup>

a. 3 components extracted.

**Rotated Component Matrix<sup>a</sup>**

|  | Component |      |       |
|--|-----------|------|-------|
|  | 1         | 2    | 3     |
| I am motivated   | ,891      | ,069 | ,134  |
| I feel creative / inspired                                   | ,890      | ,084 | ,116  |
| I work efficient and concentrated                            | ,838      | ,097 | ,046  |
| I do not feel alone / lonely during my work                  | ,565      | ,548 | -,175 |
| I experience advantage of social interaction                 | ,214      | ,872 | ,038  |
| I experience benefit from professional collaborations        | ,089      | ,864 | ,125  |
| the amount of work increased                                 | ,168      | ,153 | ,856  |
| the number collaborations with other organizations increased | -,089     | ,630 | ,520  |
| the turnover of my business increased                        | ,056      | ,125 | ,853  |
| the location costs of my organization decreased.             | ,043      | ,418 | ,190  |

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.<sup>a</sup>

a. Rotation converged in 5 iterations.

**Component Transformation Matrix**

| Component | 1     | 2     | 3    |
|-----------|-------|-------|------|
| 1         | ,662  | ,647  | ,377 |
| 2         | -,730 | ,443  | ,520 |
| 3         | ,169  | -,620 | ,766 |

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

## Appendix 5: Descriptive statistics

### Frequencies

|                        |         | Statistics |            |        |                                      |                      |                                |
|------------------------|---------|------------|------------|--------|--------------------------------------|----------------------|--------------------------------|
|                        |         | Age        | Age_groups | Gender | How many hours do you work per week? | Workhours_categories | In what sector are you active? |
| N                      | Valid   | 143        | 143        | 148    | 146                                  | 146                  | 170                            |
|                        | Missing | 33         | 33         | 28     | 30                                   | 30                   | 6                              |
| Mean                   |         | 52,1538    | 2,6014     | 1,39   | 44,45                                | 2,4726               | 2,28                           |
| Median                 |         | 52,0000    | 3,0000     | 1,00   | 45,00                                | 3,0000               | 3,00                           |
| Mode                   |         | 61,00      | 3,00       | 1      | 50                                   | 3,00                 | 3                              |
| Std. Deviation         |         | 10,20239   | ,76121     | ,490   | 14,252                               | ,58951               | ,843                           |
| Skewness               |         | -,127      | -,058      | ,447   | -,009                                | -,609                | -,562                          |
| Std. Error of Skewness |         | ,203       | ,203       | ,199   | ,201                                 | ,201                 | ,186                           |

|                        |         | Statistics                                   |  |   |                     |
|------------------------|---------|--|--|---|---------------------|
|                        |         | In which branch is your organization active? | U geeft aan dat er niemand anders in uw bedrijf werkt dan uzelf.<br><br>Zou u zichzelf omschrijven als zzp'er (zelfstandige zonder personeel). | How many employees are currently working in your organization (including yourself)? | Firmsize_categories |
| N                      | Valid   | 176  | 176  | 176   | 176                 |
|                        | Missing | 0  | 0  | 0   | 0                   |
| Mean                   |         | 9,0511                                       | 1,34   | 3,10  | 1,0625              |
| Median                 |         | 12,0000                                      | 1,00   | 1,00  | 1,0000              |
| Mode                   |         | 13,00  | 1  | 1   | 1,00                |
| Std. Deviation         |         | 4,17375                                      | ,475   | 6,538   | ,28598              |
| Skewness               |         | -,522  | ,677   | 5,298   | 5,010               |
| Std. Error of Skewness |         | ,183   | ,183   | ,183  | ,183                |

Frequency Table

|         |        | Age       |         |               |                    |
|---------|--------|-----------|---------|---------------|--------------------|
|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid   | 77,00  | 1         | ,6      | ,7            | 100,0              |
|         | Total  | 143       | 81,3    | 100,0         |                    |
| Missing | System | 33        | 18,8    |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

Age\_groups

|         |              | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------------|-----------|---------|---------------|--------------------|
| Valid   | 20-35        | 9         | 5,1     | 6,3           | 6,3                |
|         | 36-50        | 54        | 30,7    | 37,8          | 44,1               |
|         | 51-65        | 65        | 36,9    | 45,5          | 89,5               |
|         | 65 and older | 15        | 8,5     | 10,5          | 100,0              |
|         | Total        | 143       | 81,3    | 100,0         |                    |
| Missing | System       | 33        | 18,8    |               |                    |
| Total   |              | 176       | 100,0   |               |                    |

Gender

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
| Valid   | man    | 90        | 51,1    | 60,8          | 60,8               |
|         | woman  | 58        | 33,0    | 39,2          | 100,0              |
|         | Total  | 148       | 84,1    | 100,0         |                    |
| Missing | System | 28        | 15,9    |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

How many hours do you work per week?

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
| Valid   | 1      | 1         | ,6      | ,7            | ,7                 |
|         | 5      | 1         | ,6      | ,7            | 1,4                |
|         | 12     | 1         | ,6      | ,7            | 2,1                |
|         | 15     | 3         | 1,7     | 2,1           | 4,1                |
|         | 20     | 1         | ,6      | ,7            | 4,8                |
|         | 25     | 4         | 2,3     | 2,7           | 7,5                |
|         | 28     | 2         | 1,1     | 1,4           | 8,9                |
|         | 30     | 12        | 6,8     | 8,2           | 17,1               |
|         | 32     | 5         | 2,8     | 3,4           | 20,5               |
|         | 35     | 6         | 3,4     | 4,1           | 24,7               |
|         | 36     | 8         | 4,5     | 5,5           | 30,1               |
|         | 40     | 26        | 14,8    | 17,8          | 47,9               |
|         | 42     | 1         | ,6      | ,7            | 48,6               |
|         | 44     | 1         | ,6      | ,7            | 49,3               |
|         | 45     | 9         | 5,1     | 6,2           | 55,5               |
|         | 50     | 30        | 17,0    | 20,5          | 76,0               |
|         | 55     | 2         | 1,1     | 1,4           | 77,4               |
|         | 56     | 2         | 1,1     | 1,4           | 78,8               |
|         | 60     | 22        | 12,5    | 15,1          | 93,8               |
|         | 65     | 2         | 1,1     | 1,4           | 95,2               |
| 70      | 4      | 2,3       | 2,7     | 97,9          |                    |
| 80      | 2      | 1,1       | 1,4     | 99,3          |                    |
| 90      | 1      | ,6        | ,7      | 100,0         |                    |
|         | Total  | 146       | 83,0    | 100,0         |                    |
| Missing | System | 30        | 17,0    |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

Workhours\_categories

|         |           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|-----------|---------|---------------|--------------------|
| Valid   | Part-time | 7         | 4,0     | 4,8           | 4,8                |
|         | Fulltime  | 63        | 35,8    | 43,2          | 47,9               |
|         | Overtime  | 76        | 43,2    | 52,1          | 100,0              |
|         | Total     | 146       | 83,0    | 100,0         |                    |
| Missing | System    | 30        | 17,0    |               |                    |
| Total   |           | 176       | 100,0   |               |                    |

**In what sector are you active?**

|         |                            | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|----------------------------|-----------|---------|---------------|--------------------|
| Valid   | Arts                       | 43        | 24,4    | 25,3          | 25,3               |
|         | Media & Entertainment      | 37        | 21,0    | 21,8          | 47,1               |
|         | Creative business services | 90        | 51,1    | 52,9          | 100,0              |
|         | Total                      | 170       | 96,6    | 100,0         |                    |
| Missing | No answer                  | 6         | 3,4     |               |                    |
| Total   |                            | 176       | 100,0   |               |                    |

**In which branch is your organization active?**

|       |                               | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------------------|-----------|---------|---------------|--------------------|
| Valid | Visual arts                   | 21        | 11,9    | 11,9          | 11,9               |
|       | Other arts and heritage       | 12        | 6,8     | 6,8           | 18,8               |
|       | Cultural heritage             | 1         | ,6      | ,6            | 19,3               |
|       | Radio and television          | 8         | 4,5     | 4,5           | 23,9               |
|       | Press media                   | 12        | 6,8     | 6,8           | 30,7               |
|       | Film                          | 17        | 9,7     | 9,7           | 40,3               |
|       | Music industry                | 3         | 1,7     | 1,7           | 42,0               |
|       | Book industry                 | 8         | 4,5     | 4,5           | 46,6               |
|       | Other publishers              | 1         | ,6      | ,6            | 47,2               |
|       | Design                        | 41        | 23,3    | 23,3          | 70,5               |
|       | Communication and information | 46        | 26,1    | 26,1          | 96,6               |
|       | Other related branch          | 6         | 3,4     | 3,4           | 100,0              |
|       | Total                         | 176       | 100,0   | 100,0         |                    |

**U geeft aan dat er niemand anders in uw bedrijf werkt dan uzelf. Zou u zichzelf omschrijven als zzp'er (zelfstandige zonder personeel)?**

|       |       | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | ja    | 116       | 65,9    | 65,9          | 65,9               |
|       | nee   | 60        | 34,1    | 34,1          | 100,0              |
|       | Total | 176       | 100,0   | 100,0         |                    |

**How many employees are currently working in your organization (including yourself)?**

|       |       | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | 1     | 115       | 65,3    | 65,3          | 65,3               |
|       | 2     | 24        | 13,6    | 13,6          | 79,0               |
|       | 3     | 8         | 4,5     | 4,5           | 83,5               |
|       | 4     | 7         | 4,0     | 4,0           | 87,5               |
|       | 5     | 4         | 2,3     | 2,3           | 89,8               |
|       | 6     | 2         | 1,1     | 1,1           | 90,9               |
|       | 7     | 3         | 1,7     | 1,7           | 92,6               |
|       | 8     | 1         | ,6      | ,6            | 93,2               |
|       | 10    | 3         | 1,7     | 1,7           | 94,9               |
|       | 11    | 1         | ,6      | ,6            | 95,5               |
|       | 15    | 2         | 1,1     | 1,1           | 96,6               |
|       | 21    | 1         | ,6      | ,6            | 97,2               |
|       | 22    | 1         | ,6      | ,6            | 97,7               |
|       | 24    | 1         | ,6      | ,6            | 98,3               |
|       | 32    | 1         | ,6      | ,6            | 98,9               |
|       | 50    | 2         | 1,1     | 1,1           | 100,0              |
|       | Total | 176       | 100,0   | 100,0         |                    |

**Firm size categories**

|       |                   | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------|-----------|---------|---------------|--------------------|
| Valid | Micro size firms  | 167       | 94,9    | 94,9          | 94,9               |
|       | Small size firms  | 7         | 4,0     | 4,0           | 98,9               |
|       | Medium size firms | 2         | 1,1     | 1,1           | 100,0              |
|       | Total             | 176       | 100,0   | 100,0         |                    |

**Multiple Response**

**Case Summary**

|                              | Cases |         |         |         |       |         |
|------------------------------|-------|---------|---------|---------|-------|---------|
|                              | Valid |         | Missing |         | Total |         |
|                              | N     | Percent | N       | Percent | N     | Percent |
| \$Type_location <sup>a</sup> | 176   | 100,0%  | 0       | 0,0%    | 176   | 100,0%  |

a. Dichotomy group tabulated at value 1.

**\$Type\_location Frequencies**

|                              |   | Responses |         | Percent of Cases |
|------------------------------|---|-----------|---------|------------------|
|                              |   | N         | Percent |                  |
| \$Type_location <sup>a</sup> | office building or other business location                  | 60        | 27,0%   | 34,1%            |
|                              | coworking space or hub (eg. Spaces, Thinkinhut, Impact Hub) | 2         | 0,9%    | 1,1%             |
|                              | flexible workplaces (eg. at a company with extra room)      | 5         | 2,3%    | 2,8%             |
|                              | creative business complex (eg. Alab, Beehive)               | 19        | 8,6%    | 10,8%            |
|                              | broedplaats/studio/workspace (eg. NDSM)                     | 25        | 11,3%   | 14,2%            |
|                              | anti-squatting or temporary location (eg. Lola Loud)        | 6         | 2,7%    | 3,4%             |
|                              | incubator/startup accelerator (eg. Rockstart)               | 2         | 0,9%    | 1,1%             |
|                              | public space (eg. cafe, library)                            | 10        | 4,5%    | 5,7%             |
|                              | home/home office  | 88        | 39,6%   | 50,0%            |
|                              | on location   | 5         | 2,3%    | 2,8%             |
| Total                        | 222   | 100,0%    | 126,1%  |                  |

a. Dichotomy group tabulated at value 1.

**Frequencies**

**Statistics**

|                        |         | What type of contract do you have for your location? | Zipcode_area | Since when is your organization located in Amsterdam? | Since when are you located at your current location? | How often has your organization changed location? |
|------------------------|---------|--|--------------|---|--|---|
| N                      | Valid   | 173  | 176          | 175   | 171  | 172   |
|                        | Missing | 3  | 0            | 1   | 5  | 4   |
| Mean                   |         | 2,98   | 3,3182       | 1998,54   | 2004,65  | 1,82  |
| Median                 |         | 3,00   | 2,0000       | 2000,00   | 2008,00  | 1,00  |
| Mode                   |         | 4  | 1,00         | 2009 <sup>a</sup>                                     | 2013   | 0   |
| Std. Deviation         |         | ,949   | 2,44970      | 10,264  | 9,133  | 2,386   |
| Skewness               |         | -,543  | ,499         | -,657   | -1,244   | 3,489   |
| Std. Error of Skewness |         | ,185   | ,183         | ,184  | ,186   | ,185  |

a. Multiple modes exist. The smallest value is shown

**Frequency Table**

**What type of contract do you have for your location?**

|         |                                    | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|------------------------------------|-----------|---------|---------------|--------------------|
| Valid   | temporary lease (less than 1 year) | 14        | 8,0     | 8,1           | 8,1                |
|         | lease for a fixed term (1-5 years) | 37        | 21,0    | 21,4          | 29,5               |
|         | lease indefinitely                 | 60        | 34,1    | 34,7          | 64,2               |
|         | owner-occupied office/house        | 62        | 35,2    | 35,8          | 100,0              |
|         | Total                              | 173       | 98,3    | 100,0         |                    |
| Missing | no answer                          | 3         | 1,7     |               |                    |
| Total   |                                    | 176       | 100,0   |               |                    |

**Zipcode\_area**

|       |                      | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------------|-----------|---------|---------------|--------------------|
| Valid | Amsterdam Centrum    | 69        | 39,2    | 39,2          | 39,2               |
|       | Amsterdam Oost       | 27        | 15,3    | 15,3          | 54,5               |
|       | Amsterdam Noord      | 9         | 5,1     | 5,1           | 59,7               |
|       | Westpoort            | 1         | ,6      | ,6            | 60,2               |
|       | Amsterdam West       | 29        | 16,5    | 16,5          | 76,7               |
|       | Amsterdam Nieuw West | 5         | 2,8     | 2,8           | 79,5               |
|       | Amsterdam Zuid       | 33        | 18,8    | 18,8          | 98,3               |
|       | Amsterdam Zuid Oost  | 3         | 1,7     | 1,7           | 100,0              |
|       | Total                | 176       | 100,0   | 100,0         |                    |

Since when is your organization located in Amsterdam?

|                | Frequency | Percent | Valid Percent | Cumulative Percent |
|----------------|-----------|---------|---------------|--------------------|
| 1970           | 2         | 1,1     | 1,1           | 1,1                |
| 1972           | 2         | 1,1     | 1,1           | 2,3                |
| 1975           | 1         | ,6      | ,6            | 2,9                |
| 1978           | 1         | ,6      | ,6            | 3,4                |
| 1979           | 1         | ,6      | ,6            | 4,0                |
| 1980           | 4         | 2,3     | 2,3           | 6,3                |
| 1982           | 2         | 1,1     | 1,1           | 7,4                |
| 1983           | 1         | ,6      | ,6            | 8,0                |
| 1984           | 4         | 2,3     | 2,3           | 10,3               |
| 1985           | 4         | 2,3     | 2,3           | 12,6               |
| 1986           | 4         | 2,3     | 2,3           | 14,9               |
| 1987           | 2         | 1,1     | 1,1           | 16,0               |
| 1988           | 4         | 2,3     | 2,3           | 18,3               |
| 1989           | 7         | 4,0     | 4,0           | 22,3               |
| 1990           | 6         | 3,4     | 3,4           | 25,7               |
| 1991           | 2         | 1,1     | 1,1           | 26,9               |
| 1992           | 2         | 1,1     | 1,1           | 28,0               |
| 1993           | 2         | 1,1     | 1,1           | 29,1               |
| 1994           | 4         | 2,3     | 2,3           | 31,4               |
| Valid 1995     | 6         | 3,4     | 3,4           | 34,9               |
| 1996           | 4         | 2,3     | 2,3           | 37,1               |
| 1997           | 6         | 3,4     | 3,4           | 40,6               |
| 1998           | 5         | 2,8     | 2,9           | 43,4               |
| 1999           | 6         | 3,4     | 3,4           | 46,9               |
| 2000           | 7         | 4,0     | 4,0           | 50,9               |
| 2001           | 10        | 5,7     | 5,7           | 56,6               |
| 2002           | 4         | 2,3     | 2,3           | 58,9               |
| 2003           | 5         | 2,8     | 2,9           | 61,7               |
| 2004           | 5         | 2,8     | 2,9           | 64,6               |
| 2005           | 4         | 2,3     | 2,3           | 66,9               |
| 2006           | 9         | 5,1     | 5,1           | 72,0               |
| 2007           | 6         | 3,4     | 3,4           | 75,4               |
| 2008           | 2         | 1,1     | 1,1           | 76,6               |
| 2009           | 13        | 7,4     | 7,4           | 84,0               |
| 2010           | 13        | 7,4     | 7,4           | 91,4               |
| 2011           | 9         | 5,1     | 5,1           | 96,6               |
| 2012           | 4         | 2,3     | 2,3           | 98,9               |
| 2013           | 2         | 1,1     | 1,1           | 100,0              |
| Total          | 175       | 99,4    | 100,0         |                    |
| Missing System | 1         | ,6      |               |                    |
| Total          | 176       | 100,0   |               |                    |

How often has your organization changed location?

|                | Frequency | Percent | Valid Percent | Cumulative Percent |
|----------------|-----------|---------|---------------|--------------------|
| 0              | 59        | 33,5    | 34,3          | 34,3               |
| 1              | 37        | 21,0    | 21,5          | 55,8               |
| 2              | 27        | 15,3    | 15,7          | 71,5               |
| 3              | 22        | 12,5    | 12,8          | 84,3               |
| 4              | 11        | 6,3     | 6,4           | 90,7               |
| Valid 5        | 8         | 4,5     | 4,7           | 95,3               |
| 6              | 5         | 2,8     | 2,9           | 98,3               |
| 10             | 1         | ,6      | ,6            | 98,8               |
| 12             | 1         | ,6      | ,6            | 99,4               |
| 20             | 1         | ,6      | ,6            | 100,0              |
| Total          | 172       | 97,7    | 100,0         |                    |
| Missing System | 4         | 2,3     |               |                    |
| Total          | 176       | 100,0   |               |                    |



Since when are you located at your current location?

|         | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid   |           |         |               |                    |
| 1976    | 2         | 1,1     | 1,2           | 1,2                |
| 1977    | 1         | ,6      | ,6            | 1,8                |
| 1979    | 1         | ,6      | ,6            | 2,3                |
| 1980    | 1         | ,6      | ,6            | 2,9                |
| 1982    | 2         | 1,1     | 1,2           | 4,1                |
| 1984    | 2         | 1,1     | 1,2           | 5,3                |
| 1985    | 1         | ,6      | ,6            | 5,8                |
| 1986    | 1         | ,6      | ,6            | 6,4                |
| 1987    | 1         | ,6      | ,6            | 7,0                |
| 1989    | 2         | 1,1     | 1,2           | 8,2                |
| 1991    | 3         | 1,7     | 1,8           | 9,9                |
| 1992    | 2         | 1,1     | 1,2           | 11,1               |
| 1993    | 1         | ,6      | ,6            | 11,7               |
| 1994    | 1         | ,6      | ,6            | 12,3               |
| 1995    | 3         | 1,7     | 1,8           | 14,0               |
| 1996    | 6         | 3,4     | 3,5           | 17,5               |
| 1997    | 4         | 2,3     | 2,3           | 19,9               |
| 1998    | 8         | 4,5     | 4,7           | 24,6               |
| 1999    | 1         | ,6      | ,6            | 25,1               |
| 2000    | 4         | 2,3     | 2,3           | 27,5               |
| 2001    | 4         | 2,3     | 2,3           | 29,8               |
| 2002    | 2         | 1,1     | 1,2           | 31,0               |
| 2003    | 6         | 3,4     | 3,5           | 34,5               |
| 2004    | 3         | 1,7     | 1,8           | 36,3               |
| 2005    | 7         | 4,0     | 4,1           | 40,4               |
| 2006    | 9         | 5,1     | 5,3           | 45,6               |
| 2007    | 7         | 4,0     | 4,1           | 49,7               |
| 2008    | 8         | 4,5     | 4,7           | 54,4               |
| 2009    | 9         | 5,1     | 5,3           | 59,6               |
| 2010    | 15        | 8,5     | 8,8           | 68,4               |
| 2011    | 10        | 5,7     | 5,8           | 74,3               |
| 2012    | 11        | 6,3     | 6,4           | 80,7               |
| 2013    | 17        | 9,7     | 9,9           | 90,6               |
| 2014    | 10        | 5,7     | 5,8           | 96,5               |
| 2015    | 6         | 3,4     | 3,5           | 100,0              |
| Total   | 171       | 97,2    | 100,0         |                    |
| Missing |           |         |               |                    |
| System  | 5         | 2,8     |               |                    |
| Total   | 176       | 100,0   |               |                    |

Frequencies

Statistics

Bent u (mede-)eigenaar van de onderneming?

|                        |         |       |
|------------------------|---------|-------|
| N                      | Valid   | 123   |
|                        | Missing | 53    |
| Mean                   |         | 1,21  |
| Median                 |         | 1,00  |
| Mode                   |         | 1     |
| Std. Deviation         |         | ,410  |
| Skewness               |         | 1,431 |
| Std. Error of Skewness |         | ,218  |

Bent u (mede-)eigenaar van de onderneming?

|                          | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------|-----------|---------|---------------|--------------------|
| Valid                    |           |         |               |                    |
| ja, ik ben eigenaar      | 97        | 55,1    | 78,9          | 78,9               |
| ja, ik ben mede-eigenaar | 26        | 14,8    | 21,1          | 100,0              |
| Total                    | 123       | 69,9    | 100,0         |                    |
| Missing                  |           |         |               |                    |
| System                   | 53        | 30,1    |               |                    |
| Total                    | 176       | 100,0   |               |                    |

## Appendix 6: Statistics of individual indicators

### Frequencies

|                        |         | Statistics  |               |   |  |  |  |
|------------------------|---------|---|---------------|---|--|--|--|
|                        |         | economic policy of the municipality, subsidies and tax breaks | accessibility | minimizing transport, labour and supplier costs | knowledge exchange with consumers, competitors and strategic organizations | access to specialized resources, supply and complementary services | proximity to labour market and educational institutions with potential employees |
| N                      | Valid   | 132   | 164           | 149   | 160  | 160  | 148  |
|                        | Missing | 44  | 12            | 27  | 16   | 16   | 28   |
| Mean                   |         | 3,57  | 3,82          | 3,52  | 3,67   | 3,69   | 3,61   |
| Median                 |         | 3,00  | 4,00          | 3,00  | 4,00   | 4,00   | 4,00   |
| Mode                   |         | 5   | 4             | 3   | 4  | 4  | 4  |
| Std. Deviation         |         | 1,224   | ,948          | 1,082   | ,943   | ,959   | ,986   |
| Skewness               |         | ,068  | -,369         | ,118  | -,202  | -,158  | -,110  |
| Std. Error of Skewness |         | ,211  | ,190          | ,199  | ,192   | ,192   | ,199   |

|                        |         | Statistics  |                   |  |  |
|------------------------|---------|---|-------------------|--|--|
|                        |         | presence of personal / social / family contacts in the city | image of the city | presence of cultural facilities and activities | tolerant attitude for ethnic, cultural and lifestyle diversity |
| N                      | Valid   | 165   | 164               | 164  | 162  |
|                        | Missing | 11  | 12                | 12   | 14   |
| Mean                   |         | 4,16  | 4,04              | 4,23   | 3,92   |
| Median                 |         | 4,00  | 4,00              | 4,00   | 4,00   |
| Mode                   |         | 5   | 5                 | 5  | 4  |
| Std. Deviation         |         | ,924  | ,885              | ,811   | ,952   |
| Skewness               |         | -,837   | -,448             | -,798  | -,450  |
| Std. Error of Skewness |         | ,189  | ,190              | ,190   | ,191   |

### Frequency Table

|         |                           | economic policy of the municipality, subsidies and tax breaks |         |               |                    |
|---------|---------------------------|---|---------|---------------|--------------------|
|         |                           | Frequency   | Percent | Valid Percent | Cumulative Percent |
| Valid   | disagree                  | 32  | 18,2    | 24,2          | 24,2               |
|         | neither agree or disagree | 43  | 24,4    | 32,6          | 56,8               |
|         | agree                     | 7   | 4,0     | 5,3           | 62,1               |
|         | strongly agree            | 50  | 28,4    | 37,9          | 100,0              |
| Total   |                           | 132   | 75,0    | 100,0         |                    |
| Missing | don't know, no opinion    | 44  | 25,0    |               |                    |
| Total   |                           | 176   | 100,0   |               |                    |

|         |                            | accessibility |         |               |                    |
|---------|----------------------------|---------------|---------|---------------|--------------------|
|         |                            | Frequency     | Percent | Valid Percent | Cumulative Percent |
| Valid   | disagree                   | 17            | 9,7     | 10,4          | 10,4               |
|         | neither disagree nor agree | 40            | 22,7    | 24,4          | 34,8               |
|         | agree                      | 63            | 35,8    | 38,4          | 73,2               |
|         | strongly agree             | 44            | 25,0    | 26,8          | 100,0              |
| Total   |                            | 164           | 93,2    | 100,0         |                    |
| Missing | don't know, no opinion     | 12            | 6,8     |               |                    |
| Total   |                            | 176           | 100,0   |               |                    |

|         |                            | minimizing transport, labour and supplier costs |         |               |                    |
|---------|----------------------------|---|---------|---------------|--------------------|
|         |                            | Frequency                                       | Percent | Valid Percent | Cumulative Percent |
| Valid   | disagree                   | 29  | 16,5    | 19,5          | 19,5               |
|         | neither disagree nor agree | 53  | 30,1    | 35,6          | 55,0               |
|         | agree                      | 28  | 15,9    | 18,8          | 73,8               |
|         | strongly agree             | 39  | 22,2    | 26,2          | 100,0              |
| Total   |                            | 149   | 84,7    | 100,0         |                    |
| Missing | don't know, no opinion     | 27  | 15,3    |               |                    |
| Total   |                            | 176   | 100,0   |               |                    |

|         |                            | knowledge exchange with consumers, competitors and strategic organizations |         |               |                    |
|---------|----------------------------|--|---------|---------------|--------------------|
|         |                            | Frequency  | Percent | Valid Percent | Cumulative Percent |
| Valid   | disagree                   | 20   | 11,4    | 12,5          | 12,5               |
|         | neither disagree nor agree | 46   | 26,1    | 28,7          | 41,3               |
|         | agree                      | 61   | 34,7    | 38,1          | 79,4               |
|         | strongly agree             | 33   | 18,8    | 20,6          | 100,0              |
| Total   |                            | 160  | 90,9    | 100,0         |                    |
| Missing | don't know, no opinion     | 16   | 9,1     |               |                    |
| Total   |                            | 176  | 100,0   |               |                    |

**access to specialized resources, supply and complementary services**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 19        | 10,8    | 11,9          | 11,9               |
|         | neither agree or disagree | 49        | 27,8    | 30,6          | 42,5               |
|         | agree                     | 55        | 31,3    | 34,4          | 76,9               |
|         | strongly agree            | 37        | 21,0    | 23,1          | 100,0              |
|         | Total                     | 160       | 90,9    | 100,0         |                    |
| Missing | don't know, no opinion    | 16        | 9,1     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**proximity to labour market and educational institutions with potential employees**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 22        | 12,5    | 14,9          | 14,9               |
|         | neither agree or disagree | 45        | 25,6    | 30,4          | 45,3               |
|         | agree                     | 49        | 27,8    | 33,1          | 78,4               |
|         | strongly agree            | 32        | 18,2    | 21,6          | 100,0              |
|         | Total                     | 148       | 84,1    | 100,0         |                    |
| Missing | don't know, no opinion    | 28        | 15,9    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**presence of personal / social / family contacts in the city**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 11        | 6,3     | 6,7           | 6,7                |
|         | neither agree or disagree | 26        | 14,8    | 15,8          | 22,4               |
|         | agree                     | 54        | 30,7    | 32,7          | 55,2               |
|         | strongly agree            | 74        | 42,0    | 44,8          | 100,0              |
|         | Total                     | 165       | 93,8    | 100,0         |                    |
| Missing | don't know, no opinion    | 11        | 6,3     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**image of the city**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 7         | 4,0     | 4,3           | 4,3                |
|         | neither agree or disagree | 40        | 22,7    | 24,4          | 28,7               |
|         | agree                     | 57        | 32,4    | 34,8          | 63,4               |
|         | strongly agree            | 60        | 34,1    | 36,6          | 100,0              |
|         | Total                     | 164       | 93,2    | 100,0         |                    |
| Missing | don't know, no opinion    | 12        | 6,8     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**presence of cultural facilities and activities**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 5         | 2,8     | 3,0           | 3,0                |
|         | neither agree or disagree | 24        | 13,6    | 14,6          | 17,7               |
|         | agree                     | 63        | 35,8    | 38,4          | 56,1               |
|         | strongly agree            | 72        | 40,9    | 43,9          | 100,0              |
|         | Total                     | 164       | 93,2    | 100,0         |                    |
| Missing | don't know, no opinion    | 12        | 6,8     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**tolerant attitude for ethnic, cultural and lifestyle diversity**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 14        | 8,0     | 8,6           | 8,6                |
|         | neither agree or disagree | 38        | 21,6    | 23,5          | 32,1               |
|         | agree                     | 57        | 32,4    | 35,2          | 67,3               |
|         | strongly agree            | 53        | 30,1    | 32,7          | 100,0              |
|         | Total                     | 162       | 92,0    | 100,0         |                    |
| Missing | don't know, no opinion    | 14        | 8,0     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**Frequencies**

**Statistics**

|                        |         | price or rent | flexibility of lease | the ability to share facilities | flexible use of space | access to information and knowledge from others | representative and professional appearance of the site. |
|------------------------|---------|---------------|----------------------|---------------------------------|-----------------------|---|---|
| N                      | Valid   | 156           | 131                  | 145                             | 148                   | 149   | 158   |
|                        | Missing | 20            | 45                   | 31                              | 28                    | 27  | 18  |
| Mean                   |         | 3,88          | 3,53                 | 3,59                            | 3,63                  | 3,51  | 3,67  |
| Median                 |         | 4,00          | 3,00                 | 4,00                            | 4,00                  | 3,00  | 4,00  |
| Mode                   |         | 4             | 3                    | 5                               | 4                     | 3   | 4   |
| Std. Deviation         |         | ,932          | 1,125                | 1,134                           | 1,039                 | 1,076   | ,961  |
| Skewness               |         | -,480         | ,045                 | -,086                           | -,164                 | ,023  | -,257   |
| Std. Error of Skewness |         | ,194          | ,212                 | ,201                            | ,199                  | ,199  | ,193  |

**Statistics**

|                        |         | inspiring environment | social interaction | professional interaction to get feedback or to build a network | collaboration and/or professional partnerships |
|------------------------|---------|-----------------------|--------------------|--|--|
| N                      | Valid   | 158                   | 153                | 149  | 148  |
|                        | Missing | 18                    | 23                 | 27   | 28   |
| Mean                   |         | 3,98                  | 3,77               | 3,55   | 3,53   |
| Median                 |         | 4,00                  | 4,00               | 4,00   | 3,00   |
| Mode                   |         | 4                     | 4                  | 3  | 3  |
| Std. Deviation         |         | ,892                  | 1,016              | 1,062  | 1,127  |
| Skewness               |         | -,399                 | -,288              | -,013  | ,045   |
| Std. Error of Skewness |         | ,193                  | ,196               | ,199   | ,199   |

**Frequency Table**

**price or rent**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 15        | 8,5     | 9,6           | 9,6                |
|         | neither agree or disagree | 33        | 18,8    | 21,2          | 30,8               |
|         | agree                     | 64        | 36,4    | 41,0          | 71,8               |
|         | strongly agree            | 44        | 25,0    | 28,2          | 100,0              |
|         | Total                     | 156       | 88,6    | 100,0         |                    |
| Missing | don't know, no opinion    | 20        | 11,4    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**flexibility of lease**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 29        | 16,5    | 22,1          | 22,1               |
|         | neither agree or disagree | 40        | 22,7    | 30,5          | 52,7               |
|         | agree                     | 25        | 14,2    | 19,1          | 71,8               |
|         | strongly agree            | 37        | 21,0    | 28,2          | 100,0              |
|         | Total                     | 131       | 74,4    | 100,0         |                    |
| Missing | don't know, no opinion    | 45        | 25,6    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**the ability to share facilities**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 33        | 18,8    | 22,8          | 22,8               |
|         | neither agree or disagree | 36        | 20,5    | 24,8          | 47,6               |
|         | agree                     | 34        | 19,3    | 23,4          | 71,0               |
|         | strongly agree            | 42        | 23,9    | 29,0          | 100,0              |
|         | Total                     | 145       | 82,4    | 100,0         |                    |
| Missing | don't know, no opinion    | 31        | 17,6    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**flexible use of space**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 26        | 14,8    | 17,6          | 17,6               |
|         | neither agree or disagree | 39        | 22,2    | 26,4          | 43,9               |
|         | agree                     | 47        | 26,7    | 31,8          | 75,7               |
|         | strongly agree            | 36        | 20,5    | 24,3          | 100,0              |
|         | Total                     | 148       | 84,1    | 100,0         |                    |
| Missing | don't know, no opinion    | 28        | 15,9    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**access to information and knowledge from others**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 32        | 18,2    | 21,5          | 21,5               |
|         | neither agree or disagree | 44        | 25,0    | 29,5          | 51,0               |
|         | agree                     | 38        | 21,6    | 25,5          | 76,5               |
|         | strongly agree            | 35        | 19,9    | 23,5          | 100,0              |
|         | Total                     | 149       | 84,7    | 100,0         |                    |
| Missing | don't know, no opinion    | 27        | 15,3    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**representative and professional appearance of the site.**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 22        | 12,5    | 13,9          | 13,9               |
|         | neither agree or disagree | 41        | 23,3    | 25,9          | 39,9               |
|         | agree                     | 62        | 35,2    | 39,2          | 79,1               |
|         | strongly agree            | 33        | 18,8    | 20,9          | 100,0              |
|         | Total                     | 158       | 89,8    | 100,0         |                    |
| Missing | don't know, no opinion    | 18        | 10,2    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**inspiring environment**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 8         | 4,5     | 5,1           | 5,1                |
|         | neither agree or disagree | 40        | 22,7    | 25,3          | 30,4               |
|         | agree                     | 57        | 32,4    | 36,1          | 66,5               |
|         | strongly agree            | 53        | 30,1    | 33,5          | 100,0              |
|         | Total                     | 158       | 89,8    | 100,0         |                    |
| Missing | don't know, no opinion    | 18        | 10,2    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**social interaction**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 20        | 11,4    | 13,1          | 13,1               |
|         | neither agree or disagree | 40        | 22,7    | 26,1          | 39,2               |
|         | agree                     | 48        | 27,3    | 31,4          | 70,6               |
|         | strongly agree            | 45        | 25,6    | 29,4          | 100,0              |
|         | Total                     | 153       | 86,9    | 100,0         |                    |
| Missing | don't know, no opinion    | 23        | 13,1    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**professional interaction to get feedback or to build a network**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 29        | 16,5    | 19,5          | 19,5               |
|         | neither agree or disagree | 45        | 25,6    | 30,2          | 49,7               |
|         | agree                     | 39        | 22,2    | 26,2          | 75,8               |
|         | strongly agree            | 36        | 20,5    | 24,2          | 100,0              |
|         | Total                     | 149       | 84,7    | 100,0         |                    |
| Missing | don't know, no opinion    | 27        | 15,3    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**collaboration and/or professional partnerships**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 33        | 18,8    | 22,3          | 22,3               |
|         | neither agree or disagree | 45        | 25,6    | 30,4          | 52,7               |
|         | agree                     | 28        | 15,9    | 18,9          | 71,6               |
|         | strongly agree            | 42        | 23,9    | 28,4          | 100,0              |
|         | Total                     | 148       | 84,1    | 100,0         |                    |
| Missing | don't know, no opinion    | 28        | 15,9    |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**Frequencies**

**Statistics**

|                        |         | I am motivated | I feel creative / inspired | I work efficient and concentrated | I do not feel alone / lonely during my work | I experience advantage of social interaction | I experience benefit from professional collaborations |
|------------------------|---------|----------------|----------------------------|-----------------------------------|---|--|---|
| N                      | Valid   | 174            | 174                        | 174                               | 167   | 166  | 162   |
|                        | Missing | 2              | 2                          | 2                                 | 9   | 10   | 14  |
| Mean                   |         | 4,14           | 4,18                       | 4,05                              | 3,89  | 3,68   | 3,56  |
| Median                 |         | 4,00           | 4,00                       | 4,00                              | 4,00  | 4,00   | 3,00  |
| Mode                   |         | 4              | 4                          | 4                                 | 4   | 4  | 3   |
| Std. Deviation         |         | ,624           | ,627                       | ,807                              | ,905  | 1,062  | 1,075   |
| Skewness               |         | -,254          | -,300                      | -,696                             | -,524                                       | -,253  | ,005  |
| Std. Error of Skewness |         | ,184           | ,184                       | ,184                              | ,188  | ,188   | ,191  |

**Statistics**

|                        |         | the amount of work increased | the number collaborations with other organizations increased | the turnover of my business increased | the location costs of my organization decreased. |
|------------------------|---------|------------------------------|--|---------------------------------------|--|
| N                      | Valid   | 160                          | 159  | 163                                   | 164  |
|                        | Missing | 16                           | 17   | 13                                    | 12   |
| Mean                   |         | 3,44                         | 3,31   | 3,42                                  | 3,48   |
| Median                 |         | 3,00                         | 3,00   | 3,00                                  | 3,00   |
| Mode                   |         | 3                            | 3  | 3                                     | 5  |
| Std. Deviation         |         | ,943                         | 1,074  | ,999                                  | 1,190  |
| Skewness               |         | ,160                         | ,306   | ,158                                  | ,099   |
| Std. Error of Skewness |         | ,192                         | ,192   | ,190                                  | ,190   |

**Frequency Table**

**I am motivated**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 1         | ,6      | ,6            | ,6                 |
|         | neither agree or disagree | 20        | 11,4    | 11,5          | 12,1               |
|         | agree                     | 106       | 60,2    | 60,9          | 73,0               |
|         | strongly agree            | 47        | 26,7    | 27,0          | 100,0              |
| Total   |                           | 174       | 98,9    | 100,0         |                    |
| Missing | don't know, no opinion    | 2         | 1,1     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**I feel creative / inspired**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 1         | ,6      | ,6            | ,6                 |
|         | neither agree or disagree | 18        | 10,2    | 10,3          | 10,9               |
|         | agree                     | 103       | 58,5    | 59,2          | 70,1               |
|         | strongly agree            | 52        | 29,5    | 29,9          | 100,0              |
| Total   |                           | 174       | 98,9    | 100,0         |                    |
| Missing | don't know, no opinion    | 2         | 1,1     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**I work efficient and concentrated**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 9         | 5,1     | 5,2           | 5,2                |
|         | neither agree or disagree | 25        | 14,2    | 14,4          | 19,5               |
|         | agree                     | 88        | 50,0    | 50,6          | 70,1               |
|         | strongly agree            | 52        | 29,5    | 29,9          | 100,0              |
| Total   |                           | 174       | 98,9    | 100,0         |                    |
| Missing | don't know, no opinion    | 2         | 1,1     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**I do not feel alone / lonely during my work**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 15        | 8,5     | 9,0           | 9,0                |
|         | neither agree or disagree | 33        | 18,8    | 19,8          | 28,7               |
|         | agree                     | 74        | 42,0    | 44,3          | 73,1               |
|         | strongly agree            | 45        | 25,6    | 26,9          | 100,0              |
| Total   |                           | 167       | 94,9    | 100,0         |                    |
| Missing | don't know, no opinion    | 9         | 5,1     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**I experience advantage of social interaction**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 30        | 17,0    | 18,1          | 18,1               |
|         | neither agree or disagree | 38        | 21,6    | 22,9          | 41,0               |
|         | agree                     | 53        | 30,1    | 31,9          | 72,9               |
|         | strongly agree            | 45        | 25,6    | 27,1          | 100,0              |
| Total   |                           | 166       | 94,3    | 100,0         |                    |
| Missing | don't know, no opinion    | 10        | 5,7     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**I experience benefit from professional collaborations**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 31        | 17,6    | 19,1          | 19,1               |
|         | neither agree or disagree | 51        | 29,0    | 31,5          | 50,6               |
|         | agree                     | 38        | 21,6    | 23,5          | 74,1               |
|         | strongly agree            | 42        | 23,9    | 25,9          | 100,0              |
| Total   |                           | 162       | 92,0    | 100,0         |                    |
| Missing | don't know, no opinion    | 14        | 8,0     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**the amount of work increased**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 26        | 14,8    | 16,3          | 16,3               |
|         | neither agree or disagree | 63        | 35,8    | 39,4          | 55,6               |
|         | agree                     | 46        | 26,1    | 28,7          | 84,4               |
|         | strongly agree            | 25        | 14,2    | 15,6          | 100,0              |
| Total   |                           | 160       | 90,9    | 100,0         |                    |
| Missing | don't know, no opinion    | 16        | 9,1     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**the number collaborations with other organizations increased**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 43        | 24,4    | 27,0          | 27,0               |
|         | neither agree or disagree | 54        | 30,7    | 34,0          | 61,0               |
|         | agree                     | 31        | 17,6    | 19,5          | 80,5               |
|         | strongly agree            | 31        | 17,6    | 19,5          | 100,0              |
|         | Total                     | 159       | 90,3    | 100,0         |                    |
| Missing | don't know, no opinion    | 17        | 9,7     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**the turnover of my business increased**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 32        | 18,2    | 19,6          | 19,6               |
|         | neither agree or disagree | 59        | 33,5    | 36,2          | 55,8               |
|         | agree                     | 43        | 24,4    | 26,4          | 82,2               |
|         | strongly agree            | 29        | 16,5    | 17,8          | 100,0              |
|         | Total                     | 163       | 92,6    | 100,0         |                    |
| Missing | don't know, no opinion    | 13        | 7,4     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**the location costs of my organization decreased.**

|         |                           | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|---------------------------|-----------|---------|---------------|--------------------|
| Valid   | disagree                  | 45        | 25,6    | 27,4          | 27,4               |
|         | neither agree or disagree | 45        | 25,6    | 27,4          | 54,9               |
|         | agree                     | 24        | 13,6    | 14,6          | 69,5               |
|         | strongly agree            | 50        | 28,4    | 30,5          | 100,0              |
|         | Total                     | 164       | 93,2    | 100,0         |                    |
| Missing | don't know, no opinion    | 12        | 6,8     |               |                    |
| Total   |                           | 176       | 100,0   |               |                    |

**Frequencies**

**Statistics**

|                        |         | Cluster advantages | Policy, subsidy or tax advantages | Accessibility | Cost minimization | Presence of personal/social/family contacts | Urban atmosphere and cultural facilities |
|------------------------|---------|--------------------|-----------------------------------|---------------|-------------------|---|--|
| N                      | Valid   | 145                | 132                               | 164           | 149               | 165   | 162                                      |
|                        | Missing | 31                 | 44                                | 12            | 27                | 11  | 14                                       |
| Mean                   |         | 3,6391             | 3,5682                            | 3,8171        | 3,5168            | 4,1576                                      | 4,1327                                   |
| Median                 |         | 3,6667             | 3,0000                            | 4,0000        | 3,0000            | 4,0000                                      | 4,0000                                   |
| Mode                   |         | 4,00               | 5,00                              | 4,00          | 3,00              | 5,00  | 5,00                                     |
| Std. Deviation         |         | ,82262             | 1,22439                           | ,94808        | 1,08182           | ,92362                                      | ,74724                                   |
| Skewness               |         | -,224              | ,068                              | -,369         | ,118              | -,837                                       | -,385                                    |
| Std. Error of Skewness |         | ,201               | ,211                              | ,190          | ,199              | ,189  | ,191                                     |

**Statistics**

|                        |         | Valid | Missing | Tolerance |
|------------------------|---------|-------|---------|-----------|
| N                      | Valid   |       |         | 162       |
|                        | Missing |       |         | 14        |
| Mean                   |         |       |         | 3,9198    |
| Median                 |         |       |         | 4,0000    |
| Mode                   |         |       |         | 4,00      |
| Std. Deviation         |         |       |         | ,95214    |
| Skewness               |         |       |         | -,450     |
| Std. Error of Skewness |         |       |         | ,191      |

**Frequency Table**

**Cluster advantages**

|       |         | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|---------|-----------|---------|---------------|--------------------|
| Valid | 2,00    | 10        | 5,7     | 6,9           | 6,9                |
|       | 2,33    | 4         | 2,3     | 2,8           | 9,7                |
|       | 2,67    | 8         | 4,5     | 5,5           | 15,2               |
|       | 3,00    | 24        | 13,6    | 16,6          | 31,7               |
|       | 3,33    | 14        | 8,0     | 9,7           | 41,4               |
|       | 3,67    | 18        | 10,2    | 12,4          | 53,8               |
|       | 4,00    | 29        | 16,5    | 20,0          | 73,8               |
|       | 4,33    | 16        | 9,1     | 11,0          | 84,8               |
|       | 4,67    | 9         | 5,1     | 6,2           | 91,0               |
|       | 5,00    | 13        | 7,4     | 9,0           | 100,0              |
|       | Total   | 145       | 82,4    | 100,0         |                    |
|       | Missing | System    | 31      | 17,6          |                    |
| Total |         | 176       | 100,0   |               |                    |

**Policy, subsidy or tax advantages**

|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
|--|--|-----------|---------|---------------|--------------------|
|--|--|-----------|---------|---------------|--------------------|

|         |        |     |       |       |       |
|---------|--------|-----|-------|-------|-------|
|         | 2,00   | 32  | 18,2  | 24,2  | 24,2  |
|         | 3,00   | 43  | 24,4  | 32,6  | 56,8  |
| Valid   | 4,00   | 7   | 4,0   | 5,3   | 62,1  |
|         | 5,00   | 50  | 28,4  | 37,9  | 100,0 |
|         | Total  | 132 | 75,0  | 100,0 |       |
| Missing | System | 44  | 25,0  |       |       |
| Total   |        | 176 | 100,0 |       |       |

#### Accessibility

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
|         | 2,00   | 17        | 9,7     | 10,4          | 10,4               |
|         | 3,00   | 40        | 22,7    | 24,4          | 34,8               |
| Valid   | 4,00   | 63        | 35,8    | 38,4          | 73,2               |
|         | 5,00   | 44        | 25,0    | 26,8          | 100,0              |
|         | Total  | 164       | 93,2    | 100,0         |                    |
| Missing | System | 12        | 6,8     |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

#### Cost minimization

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
|         | 2,00   | 29        | 16,5    | 19,5          | 19,5               |
|         | 3,00   | 53        | 30,1    | 35,6          | 55,0               |
| Valid   | 4,00   | 28        | 15,9    | 18,8          | 73,8               |
|         | 5,00   | 39        | 22,2    | 26,2          | 100,0              |
|         | Total  | 149       | 84,7    | 100,0         |                    |
| Missing | System | 27        | 15,3    |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

#### Presence of personal/social/family contacts

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
|         | 2,00   | 11        | 6,3     | 6,7           | 6,7                |
|         | 3,00   | 26        | 14,8    | 15,8          | 22,4               |
| Valid   | 4,00   | 54        | 30,7    | 32,7          | 55,2               |
|         | 5,00   | 74        | 42,0    | 44,8          | 100,0              |
|         | Total  | 165       | 93,8    | 100,0         |                    |
| Missing | System | 11        | 6,3     |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

#### Urban atmosphere and cultural facilities

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
|         | 2,00   | 1         | ,6      | ,6            | ,6                 |
|         | 2,50   | 3         | 1,7     | 1,9           | 2,5                |
|         | 3,00   | 21        | 11,9    | 13,0          | 15,4               |
| Valid   | 3,50   | 23        | 13,1    | 14,2          | 29,6               |
|         | 4,00   | 43        | 24,4    | 26,5          | 56,2               |
|         | 4,50   | 21        | 11,9    | 13,0          | 69,1               |
|         | 5,00   | 50        | 28,4    | 30,9          | 100,0              |
|         | Total  | 162       | 92,0    | 100,0         |                    |
| Missing | System | 14        | 8,0     |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

#### Tolerance

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
|         | 2,00   | 14        | 8,0     | 8,6           | 8,6                |
|         | 3,00   | 38        | 21,6    | 23,5          | 32,1               |
| Valid   | 4,00   | 57        | 32,4    | 35,2          | 67,3               |
|         | 5,00   | 53        | 30,1    | 32,7          | 100,0              |
|         | Total  | 162       | 92,0    | 100,0         |                    |
| Missing | System | 14        | 8,0     |               |                    |
| Total   |        | 176       | 100,0   |               |                    |



**Frequencies**

**Statistics**

|                        |         | Price or rent | Flexibility of workspace and the presence of others | Professional interaction at workspace | Sphere at/surroundings of workspace |
|------------------------|---------|---------------|---|---------------------------------------|-------------------------------------|
| N                      | Valid   | 156           | 125   | 147                                   | 151                                 |
|                        | Missing | 20            | 51  | 29                                    | 25                                  |
| Mean                   |         | 3,8782        | 3,5240  | 3,5476                                | 3,8013                              |
| Median                 |         | 4,0000        | 3,5000  | 3,5000                                | 4,0000                              |
| Mode                   |         | 4,00          | 3,00  | 3,00                                  | 4,00                                |
| Std. Deviation         |         | ,93217        | ,85750  | 1,04083                               | ,75736                              |
| Skewness               |         | -,480         | ,026  | -,013                                 | -,166                               |
| Std. Error of Skewness |         | ,194          | ,217  | ,200                                  | ,197                                |

**Frequency Table**

**Price or rent**

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
|         | 2,00   | 15        | 8,5     | 9,6           | 9,6                |
|         | 3,00   | 33        | 18,8    | 21,2          | 30,8               |
| Valid   | 4,00   | 64        | 36,4    | 41,0          | 71,8               |
|         | 5,00   | 44        | 25,0    | 28,2          | 100,0              |
|         | Total  | 156       | 88,6    | 100,0         |                    |
| Missing | System | 20        | 11,4    |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

**Flexibility of workspace and the presence of others**

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
|         | 2,00   | 9         | 5,1     | 7,2           | 7,2                |
|         | 2,25   | 6         | 3,4     | 4,8           | 12,0               |
|         | 2,50   | 4         | 2,3     | 3,2           | 15,2               |
|         | 2,75   | 5         | 2,8     | 4,0           | 19,2               |
|         | 3,00   | 23        | 13,1    | 18,4          | 37,6               |
|         | 3,25   | 9         | 5,1     | 7,2           | 44,8               |
| Valid   | 3,50   | 14        | 8,0     | 11,2          | 56,0               |
|         | 3,75   | 8         | 4,5     | 6,4           | 62,4               |
|         | 4,00   | 18        | 10,2    | 14,4          | 76,8               |
|         | 4,25   | 6         | 3,4     | 4,8           | 81,6               |
|         | 4,50   | 6         | 3,4     | 4,8           | 86,4               |
|         | 4,75   | 6         | 3,4     | 4,8           | 91,2               |
|         | 5,00   | 11        | 6,3     | 8,8           | 100,0              |
|         | Total  | 125       | 71,0    | 100,0         |                    |
| Missing | System | 51        | 29,0    |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

**Professional interaction at workspace**

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
|         | 2,00   | 25        | 14,2    | 17,0          | 17,0               |
|         | 2,50   | 8         | 4,5     | 5,4           | 22,4               |
|         | 3,00   | 34        | 19,3    | 23,1          | 45,6               |
| Valid   | 3,50   | 12        | 6,8     | 8,2           | 53,7               |
|         | 4,00   | 28        | 15,9    | 19,0          | 72,8               |
|         | 4,50   | 9         | 5,1     | 6,1           | 78,9               |
|         | 5,00   | 31        | 17,6    | 21,1          | 100,0              |
|         | Total  | 147       | 83,5    | 100,0         |                    |
| Missing | System | 29        | 16,5    |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

**Sphere at/surroundings of workspace**

|         |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|--------|-----------|---------|---------------|--------------------|
|         | 2,00   | 4         | 2,3     | 2,6           | 2,6                |
|         | 2,33   | 1         | ,6      | ,7            | 3,3                |
|         | 2,67   | 9         | 5,1     | 6,0           | 9,3                |
|         | 3,00   | 21        | 11,9    | 13,9          | 23,2               |
|         | 3,33   | 19        | 10,8    | 12,6          | 35,8               |
| Valid   | 3,67   | 21        | 11,9    | 13,9          | 49,7               |
|         | 4,00   | 27        | 15,3    | 17,9          | 67,5               |
|         | 4,33   | 19        | 10,8    | 12,6          | 80,1               |
|         | 4,67   | 12        | 6,8     | 7,9           | 88,1               |
|         | 5,00   | 18        | 10,2    | 11,9          | 100,0              |
|         | Total  | 151       | 85,8    | 100,0         |                    |
| Missing | System | 25        | 14,2    |               |                    |
| Total   |        | 176       | 100,0   |               |                    |

## Appendix 7: Confronting the factors: paired-samples t-tests

### T-Test

|         |   | Paired Samples Statistics |     |                |                 |
|---------|---|---------------------------|-----|----------------|-----------------|
|         |   | Mean                      | N   | Std. Deviation | Std. Error Mean |
| Pair 1  | Cluster advantages                          | 3,6561                    | 126 | ,81206         | ,07234          |
|         | Policy, subsidy or tax advantages           | 3,5794                    | 126 | 1,22215        | ,10888          |
| Pair 2  | Cluster advantages                          | 3,6505                    | 144 | ,81395         | ,06783          |
|         | Accessibility                               | 3,7778                    | 144 | ,95672         | ,07973          |
| Pair 3  | Cluster advantages                          | 3,6545                    | 137 | ,81790         | ,06988          |
|         | Cost minimization                           | 3,4526                    | 137 | 1,08445        | ,09265          |
| Pair 4  | Cluster advantages                          | 3,6480                    | 143 | ,81628         | ,06826          |
|         | Presence of personal/social/family contacts | 4,1678                    | 143 | ,94187         | ,07876          |
| Pair 5  | Cluster advantages                          | 3,6457                    | 143 | ,81479         | ,06814          |
|         | Urban atmosphere and cultural facilities    | 4,1084                    | 143 | ,75326         | ,06299          |
| Pair 6  | Cluster advantages                          | 3,6549                    | 142 | ,80328         | ,06741          |
|         | Tolerance                                   | 3,8521                    | 142 | ,95981         | ,08055          |
| Pair 7  | Policy, subsidy or tax advantages           | 3,5682                    | 132 | 1,22439        | ,10657          |
|         | Accessibility                               | 3,7500                    | 132 | ,99138         | ,08629          |
| Pair 8  | Policy, subsidy or tax advantages           | 3,5581                    | 129 | 1,21775        | ,10722          |
|         | Cost minimization                           | 3,4806                    | 129 | 1,11173        | ,09788          |
| Pair 9  | Policy, subsidy or tax advantages           | 3,5573                    | 131 | 1,22261        | ,10682          |
|         | Presence of personal/social/family contacts | 4,1221                    | 131 | ,93663         | ,08183          |
| Pair 10 | Policy, subsidy or tax advantages           | 3,5573                    | 131 | 1,22261        | ,10682          |
|         | Urban atmosphere and cultural facilities    | 4,1336                    | 131 | ,75147         | ,06566          |
| Pair 11 | Policy, subsidy or tax advantages           | 3,5573                    | 131 | 1,22261        | ,10682          |
|         | Tolerance                                   | 3,8473                    | 131 | ,98819         | ,08634          |
| Pair 12 | Accessibility                               | 3,7785                    | 149 | ,97152         | ,07959          |
|         | Cost minimization                           | 3,5168                    | 149 | 1,08182        | ,08863          |
| Pair 13 | Accessibility                               | 3,8063                    | 160 | ,95494         | ,07549          |
|         | Presence of personal/social/family contacts | 4,1625                    | 160 | ,91725         | ,07252          |
| Pair 14 | Accessibility                               | 3,7987                    | 159 | ,95321         | ,07559          |
|         | Urban atmosphere and cultural facilities    | 4,1415                    | 159 | ,74870         | ,05938          |
| Pair 15 | Accessibility                               | 3,8280                    | 157 | ,94854         | ,07570          |
|         | Tolerance                                   | 3,9045                    | 157 | ,95932         | ,07656          |
| Pair 16 | Cost minimization                           | 3,5270                    | 148 | 1,07821        | ,08863          |

|         |   | Paired Samples Statistics |     |                |                 |
|---------|---|---------------------------|-----|----------------|-----------------|
|         |   | Mean                      | N   | Std. Deviation | Std. Error Mean |
| Pair 16 | Presence of personal/social/family contacts | 4,1486                    | 148 | ,92850         | ,07632          |
| Pair 17 | Cost minimization                           | 3,5137                    | 146 | 1,07791        | ,08921          |
|         | Urban atmosphere and cultural facilities    | 4,1301                    | 146 | ,75442         | ,06244          |
| Pair 18 | Cost minimization                           | 3,5315                    | 143 | 1,08643        | ,09085          |
|         | Tolerance                                   | 3,8671                    | 143 | ,97314         | ,08138          |
| Pair 19 | Presence of personal/social/family contacts | 4,1438                    | 160 | ,93059         | ,07357          |
|         | Urban atmosphere and cultural facilities    | 4,1281                    | 160 | ,74868         | ,05919          |
| Pair 20 | Presence of personal/social/family contacts | 4,1761                    | 159 | ,91772         | ,07278          |
|         | Tolerance                                   | 3,9119                    | 159 | ,95721         | ,07591          |
| Pair 21 | Urban atmosphere and cultural facilities    | 4,1392                    | 158 | ,75265         | ,05988          |
|         | Tolerance                                   | 3,8987                    | 158 | ,95230         | ,07576          |

|         |   | Paired Samples Correlations |             |      |
|---------|---|-----------------------------|-------------|------|
|         |   | N                           | Correlation | Sig. |
| Pair 1  | Cluster advantages & Policy, subsidy or tax advantages                          | 126                         | ,304        | ,001 |
| Pair 2  | Cluster advantages & Accessibility  | 144                         | ,313        | ,000 |
| Pair 3  | Cluster advantages & Cost minimization  | 137                         | ,432        | ,000 |
| Pair 4  | Cluster advantages & Presence of personal/social/family contacts                | 143                         | ,300        | ,000 |
| Pair 5  | Cluster advantages & Urban atmosphere and cultural facilities                   | 143                         | ,488        | ,000 |
| Pair 6  | Cluster advantages & Tolerance  | 142                         | ,433        | ,000 |
| Pair 7  | Policy, subsidy or tax advantages & Accessibility                               | 132                         | ,200        | ,022 |
| Pair 8  | Policy, subsidy or tax advantages & Cost minimization                           | 129                         | ,360        | ,000 |
| Pair 9  | Policy, subsidy or tax advantages & Presence of personal/social/family contacts | 131                         | ,263        | ,002 |
| Pair 10 | Policy, subsidy or tax advantages & Urban atmosphere and cultural facilities    | 131                         | -,031       | ,722 |
| Pair 11 | Policy, subsidy or tax advantages & Tolerance                                   | 131                         | ,205        | ,019 |
| Pair 12 | Accessibility & Cost minimization   | 149                         | ,360        | ,000 |
| Pair 13 | Accessibility & Presence of personal/social/family contacts                     | 160                         | ,244        | ,002 |
| Pair 14 | Accessibility & Urban atmosphere and cultural facilities                        | 159                         | ,373        | ,000 |
| Pair 15 | Accessibility & Tolerance   | 157                         | ,271        | ,001 |
| Pair 16 | Cost minimization & Presence of personal/social/family contacts                 | 148                         | ,213        | ,009 |
| Pair 17 | Cost minimization & Urban atmosphere and cultural facilities                    | 146                         | ,295        | ,000 |
| Pair 18 | Cost minimization & Tolerance   | 143                         | ,287        | ,001 |

|         |  | Paired Samples Correlations |             |      |
|---------|--|-----------------------------|-------------|------|
|         |  | N                           | Correlation | Sig. |
| Pair 19 | Presence of personal/social/family contacts & Urban atmosphere and cultural facilities | 160                         | ,271        | ,001 |
| Pair 20 | Presence of personal/social/family contacts & Tolerance                                | 159                         | ,313        | ,000 |
| Pair 21 | Urban atmosphere and cultural facilities & Tolerance                                   | 158                         | ,415        | ,000 |

**Paired Samples Test**

|         |   | Paired Differences |                |                 |   |         | t      |
|---------|---|--------------------|----------------|-----------------|---|---------|--------|
|         |   | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |         |        |
|         |   |                    |                |                 | Lower                                     | Upper   |        |
| Pair 1  | Cluster advantages - Policy, subsidy or tax advantages                          | ,07672             | 1,24448        | ,11087          | -,14270                                   | ,29614  | ,692   |
| Pair 2  | Cluster advantages - Accessibility  | -,12731            | 1,04446        | ,08704          | -,29936                                   | ,04473  | -1,463 |
| Pair 3  | Cluster advantages - Cost minimization  | ,20195             | 1,03876        | ,08875          | ,02644                                    | ,37745  | 2,276  |
| Pair 4  | Cluster advantages - Presence of personal/social/family contacts                | -,51981            | 1,04486        | ,08738          | -,69254                                   | -,34709 | -5,949 |
| Pair 5  | Cluster advantages - Urban atmosphere and cultural facilities                   | -,46270            | ,79548         | ,06652          | -,59420                                   | -,33120 | -6,956 |
| Pair 6  | Cluster advantages - Tolerance  | -,19718            | ,94794         | ,07955          | -,35445                                   | -,03992 | -2,479 |
| Pair 7  | Policy, subsidy or tax advantages - Accessibility                               | -,18182            | 1,41323        | ,12301          | -,42515                                   | ,06152  | -1,478 |
| Pair 8  | Policy, subsidy or tax advantages - Cost minimization                           | ,07752             | 1,32058        | ,11627          | -,15254                                   | ,30758  | ,667   |
| Pair 9  | Policy, subsidy or tax advantages - Presence of personal/social/family contacts | -,56489            | 1,33070        | ,11626          | -,79490                                   | -,33487 | -4,859 |
| Pair 10 | Policy, subsidy or tax advantages - Urban atmosphere and cultural facilities    | -,57634            | 1,45506        | ,12713          | -,82785                                   | -,32483 | -4,533 |
| Pair 11 | Policy, subsidy or tax advantages - Tolerance                                   | -,29008            | 1,40597        | ,12284          | -,53310                                   | -,04705 | -2,361 |
| Pair 12 | Accessibility - Cost minimization   | ,26174             | 1,16478        | ,09542          | ,07318                                    | ,45031  | 2,743  |
| Pair 13 | Accessibility - Presence of personal/social/family contacts                     | -,35625            | 1,15114        | ,09101          | -,53599                                   | -,17651 | -3,915 |
| Pair 14 | Accessibility - Urban atmosphere and cultural facilities                        | -,34277            | ,96806         | ,07677          | -,49440                                   | -,19113 | -4,465 |
| Pair 15 | Accessibility - Tolerance   | -,07643            | 1,15215        | ,09195          | -,25806                                   | ,10520  | -,831  |
| Pair 16 | Cost minimization - Presence of personal/social/family contacts                 | -,62162            | 1,26386        | ,10389          | -,82693                                   | -,41631 | -5,984 |

**Paired Samples Test**

|         |   | df  | Sig. (2-tailed) |
|---------|---|-----|-----------------|
| Pair 1  | Cluster advantages - Policy, subsidy or tax advantages                          | 125 | ,490            |
| Pair 2  | Cluster advantages - Accessibility  | 143 | ,146            |
| Pair 3  | Cluster advantages - Cost minimization  | 136 | ,024            |
| Pair 4  | Cluster advantages - Presence of personal/social/family contacts                | 142 | ,000            |
| Pair 5  | Cluster advantages - Urban atmosphere and cultural facilities                   | 142 | ,000            |
| Pair 6  | Cluster advantages - Tolerance  | 141 | ,014            |
| Pair 7  | Policy, subsidy or tax advantages - Accessibility                               | 131 | ,142            |
| Pair 8  | Policy, subsidy or tax advantages - Cost minimization                           | 128 | ,506            |
| Pair 9  | Policy, subsidy or tax advantages - Presence of personal/social/family contacts | 130 | ,000            |
| Pair 10 | Policy, subsidy or tax advantages - Urban atmosphere and cultural facilities    | 130 | ,000            |
| Pair 11 | Policy, subsidy or tax advantages - Tolerance                                   | 130 | ,020            |
| Pair 12 | Accessibility - Cost minimization   | 148 | ,007            |
| Pair 13 | Accessibility - Presence of personal/social/family contacts                     | 159 | ,000            |
| Pair 14 | Accessibility - Urban atmosphere and cultural facilities                        | 158 | ,000            |
| Pair 15 | Accessibility - Tolerance   | 156 | ,407            |
| Pair 16 | Cost minimization - Presence of personal/social/family contacts                 | 147 | ,000            |

**Paired Samples Test**

|         |  | Paired Differences |                |                 |   |         | t      |
|---------|--|--------------------|----------------|-----------------|---|---------|--------|
|         |  | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |         |        |
|         |  |                    |                |                 | Lower                                     | Upper   |        |
| Pair 17 | Cost minimization - Urban atmosphere and cultural facilities                           | -,61644            | 1,11887        | ,09260          | -,79945                                   | -,43342 | -6,657 |
| Pair 18 | Cost minimization - Tolerance  | -,33566            | 1,23302        | ,10311          | -,53949                                   | -,13183 | -3,255 |
| Pair 19 | Presence of personal/social/family contacts - Urban atmosphere and cultural facilities | ,01563             | 1,02396        | ,08095          | -,14425                                   | ,17550  | ,193   |
| Pair 20 | Presence of personal/social/family contacts - Tolerance                                | ,26415             | 1,09921        | ,08717          | ,09198                                    | ,43633  | 3,030  |
| Pair 21 | Urban atmosphere and cultural facilities - Tolerance                                   | ,24051             | ,93707         | ,07455          | ,09326                                    | ,38775  | 3,226  |

**Paired Samples Test**

|         |  | df  | Sig. (2-tailed) |
|---------|--|-----|-----------------|
| Pair 17 | Cost minimization - Urban atmosphere and cultural facilities                           | 145 | ,000            |
| Pair 18 | Cost minimization - Tolerance  | 142 | ,001            |
| Pair 19 | Presence of personal/social/family contacts - Urban atmosphere and cultural facilities | 159 | ,847            |
| Pair 20 | Presence of personal/social/family contacts - Tolerance                                | 158 | ,003            |
| Pair 21 | Urban atmosphere and cultural facilities - Tolerance                                   | 157 | ,002            |

**T-Test**

**Paired Samples Statistics**

|        |   | Mean   | N   | Std. Deviation | Std. Error Mean |
|--------|---|--------|-----|----------------|-----------------|
| Pair 1 | Price or rent                                       | 3,8560 | 125 | ,94787         | ,08478          |
|        | Flexibility of workspace and the presence of others | 3,5240 | 125 | ,85750         | ,07670          |
| Pair 2 | Price or rent                                       | 3,8681 | 144 | ,94051         | ,07838          |
|        | Professional interaction at workspace               | 3,5451 | 144 | 1,04766        | ,08731          |
| Pair 3 | Price or rent                                       | 3,8571 | 147 | ,93633         | ,07723          |
|        | Sphere at/surroundings of workspace                 | 3,8141 | 147 | ,76065         | ,06274          |
| Pair 4 | Flexibility of workspace and the presence of others | 3,5242 | 124 | ,86098         | ,07732          |
|        | Professional interaction at workspace               | 3,5484 | 124 | 1,03086        | ,09257          |
| Pair 5 | Flexibility of workspace and the presence of others | 3,5240 | 125 | ,85750         | ,07670          |
|        | Sphere at/surroundings of workspace                 | 3,8240 | 125 | ,76619         | ,06853          |
| Pair 6 | Professional interaction at workspace               | 3,5476 | 147 | 1,04083        | ,08585          |
|        | Sphere at/surroundings of workspace                 | 3,8005 | 147 | ,76317         | ,06295          |

**Paired Samples Correlations**

|        |   | N   | Correlation | Sig. |
|--------|---|-----|-------------|------|
| Pair 1 | Price or rent & Flexibility of workspace and the presence of others                         | 125 | ,344        | ,000 |
| Pair 2 | Price or rent & Professional interaction at workspace                                       | 144 | ,191        | ,022 |
| Pair 3 | Price or rent & Sphere at/surroundings of workspace   | 147 | ,049        | ,556 |
| Pair 4 | Flexibility of workspace and the presence of others & Professional interaction at workspace | 124 | ,420        | ,000 |
| Pair 5 | Flexibility of workspace and the presence of others & Sphere at/surroundings of workspace   | 125 | ,395        | ,000 |
| Pair 6 | Professional interaction at workspace & Sphere at/surroundings of workspace                 | 147 | ,527        | ,000 |

**Paired Samples Test**

|        |   | Paired Differences |                |                 |   |         | t      |
|--------|---|--------------------|----------------|-----------------|---|---------|--------|
|        |   | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |         |        |
|        |   |                    |                |                 | Lower                                     | Upper   |        |
| Pair 1 | Price or rent - Flexibility of workspace and the presence of others                         | ,33200             | 1,03652        | ,09271          | ,14850                                    | ,51550  | 3,581  |
| Pair 2 | Price or rent - Professional interaction at workspace                                       | ,32292             | 1,26749        | ,10562          | ,11413                                    | ,53170  | 3,057  |
| Pair 3 | Price or rent - Sphere at/surroundings of workspace   | ,04308             | 1,17707        | ,09708          | -,14879                                   | ,23495  | ,444   |
| Pair 4 | Flexibility of workspace and the presence of others - Professional interaction at workspace | -,02419            | 1,02876        | ,09239          | -,20707                                   | ,15868  | -,262  |
| Pair 5 | Flexibility of workspace and the presence of others - Sphere at/surroundings of workspace   | -,30000            | ,89615         | ,08015          | -,45865                                   | -,14135 | -3,743 |
| Pair 6 | Professional interaction at workspace - Sphere at/surroundings of workspace                 | -,25283            | ,91065         | ,07511          | -,40128                                   | -,10439 | -3,366 |

**Paired Samples Test**

|        |   | df  | Sig. (2-tailed) |
|--------|---|-----|-----------------|
| Pair 1 | Price or rent - Flexibility of workspace and the presence of others                         | 124 | ,000            |
| Pair 2 | Price or rent - Professional interaction at workspace                                       | 143 | ,003            |
| Pair 3 | Price or rent - Sphere at/surroundings of workspace   | 146 | ,658            |
| Pair 4 | Flexibility of workspace and the presence of others - Professional interaction at workspace | 123 | ,794            |
| Pair 5 | Flexibility of workspace and the presence of others - Sphere at/surroundings of workspace   | 124 | ,000            |
| Pair 6 | Professional interaction at workspace - Sphere at/surroundings of workspace                 | 146 | ,001            |

## Appendix 8: Controlling for demographics: One-Way ANOVA

Oneway

ANOVA

|   |                | Sum of Squares | df  | Mean Square | F     | Sig. |
|---|----------------|----------------|-----|-------------|-------|------|
| Cluster advantages                                  | Between Groups | ,178           | 3   | ,059        | ,089  | ,966 |
|   | Within Groups  | 76,131         | 114 | ,668        |       |      |
|   | Total          | 76,309         | 117 |             |       |      |
| Policy, subsidy or tax advantages                   | Between Groups | 1,597          | 3   | ,532        | ,355  | ,786 |
|   | Within Groups  | 154,478        | 103 | 1,500       |       |      |
|   | Total          | 156,075        | 106 |             |       |      |
| Accessibility                                       | Between Groups | ,802           | 3   | ,267        | ,297  | ,827 |
|   | Within Groups  | 114,160        | 127 | ,899        |       |      |
|   | Total          | 114,962        | 130 |             |       |      |
| Cost minimization                                   | Between Groups | 3,358          | 3   | 1,119       | ,965  | ,412 |
|   | Within Groups  | 134,609        | 116 | 1,160       |       |      |
|   | Total          | 137,967        | 119 |             |       |      |
| Presence of personal/social/family contacts         | Between Groups | 3,615          | 3   | 1,205       | 1,446 | ,232 |
|   | Within Groups  | 106,650        | 128 | ,833        |       |      |
|   | Total          | 110,265        | 131 |             |       |      |
| Urban atmosphere and cultural facilities            | Between Groups | ,751           | 3   | ,250        | ,444  | ,722 |
|   | Within Groups  | 71,074         | 126 | ,564        |       |      |
|   | Total          | 71,825         | 129 |             |       |      |
| Tolerance   | Between Groups | 4,681          | 3   | 1,560       | 1,851 | ,141 |
|   | Within Groups  | 105,381        | 125 | ,843        |       |      |
|   | Total          | 110,062        | 128 |             |       |      |
| Price or rent                                       | Between Groups | 1,640          | 3   | ,547        | ,622  | ,602 |
|   | Within Groups  | 106,392        | 121 | ,879        |       |      |
|   | Total          | 108,032        | 124 |             |       |      |
| Flexibility of workspace and the presence of others | Between Groups | 1,045          | 3   | ,348        | ,484  | ,694 |
|   | Within Groups  | 72,677         | 101 | ,720        |       |      |
|   | Total          | 73,723         | 104 |             |       |      |
| Professional interaction at workspace               | Between Groups | 2,239          | 3   | ,746        | ,678  | ,567 |
|   | Within Groups  | 126,581        | 115 | 1,101       |       |      |
|   | Total          | 128,819        | 118 |             |       |      |
| Sphere at/surroundings of workspace                 | Between Groups | ,273           | 3   | ,091        | ,148  | ,931 |
|   | Within Groups  | 72,035         | 117 | ,616        |       |      |
|   | Total          | 72,309         | 120 |             |       |      |
| Advantages from social and professional interaction | Between Groups | 2,250          | 3   | ,750        | ,764  | ,516 |
|   | Within Groups  | 125,659        | 128 | ,982        |       |      |
|   | Total          | 127,909        | 131 |             |       |      |
| Increased amount of work                            | Between Groups | 2,426          | 3   | ,809        | 1,060 | ,369 |
|   | Within Groups  | 96,122         | 126 | ,763        |       |      |
|   | Total          | 98,548         | 129 |             |       |      |
| More collaborations projects                        | Between Groups | 2,949          | 3   | ,983        | ,808  | ,491 |
|   | Within Groups  | 154,440        | 127 | 1,216       |       |      |
|   | Total          | 157,389        | 130 |             |       |      |

ANOVA

|                     |                | Sum of Squares | df  | Mean Square | F     | Sig. |
|---------------------|----------------|----------------|-----|-------------|-------|------|
| Cost advantages     | Between Groups | 3,685          | 3   | 1,228       | ,829  | ,480 |
|                     | Within Groups  | 191,022        | 129 | 1,481       |       |      |
|                     | Total          | 194,707        | 132 |             |       |      |
| Personal_advantages | Between Groups | 1,644          | 3   | ,548        | 1,690 | ,172 |
|                     | Within Groups  | 42,493         | 131 | ,324        |       |      |
|                     | Total          | 44,137         | 134 |             |       |      |

Oneway

ANOVA

|   |                | Sum of Squares | df  | Mean Square | F     | Sig. |
|---|----------------|----------------|-----|-------------|-------|------|
| Cluster advantages                                  | Between Groups | ,177           | 2   | ,089        | ,133  | ,875 |
|   | Within Groups  | 79,022         | 119 | ,664        |       |      |
|   | Total          | 79,199         | 121 |             |       |      |
| Policy, subsidy or tax advantages                   | Between Groups | 1,480          | 2   | ,740        | ,494  | ,612 |
|   | Within Groups  | 161,889        | 108 | 1,499       |       |      |
|   | Total          | 163,369        | 110 |             |       |      |
| Accessibility                                       | Between Groups | 1,690          | 2   | ,845        | ,929  | ,397 |
|   | Within Groups  | 120,043        | 132 | ,909        |       |      |
|   | Total          | 121,733        | 134 |             |       |      |
| Cost minimization                                   | Between Groups | ,314           | 2   | ,157        | ,131  | ,877 |
|   | Within Groups  | 144,557        | 121 | 1,195       |       |      |
|   | Total          | 144,871        | 123 |             |       |      |
| Presence of personal/social/family contacts         | Between Groups | 1,936          | 2   | ,968        | 1,131 | ,326 |
|   | Within Groups  | 113,821        | 133 | ,856        |       |      |
|   | Total          | 115,757        | 135 |             |       |      |
| Urban atmosphere and cultural facilities            | Between Groups | ,299           | 2   | ,149        | ,252  | ,777 |
|   | Within Groups  | 77,544         | 131 | ,592        |       |      |
|   | Total          | 77,843         | 133 |             |       |      |
| Tolerance   | Between Groups | ,698           | 2   | ,349        | ,391  | ,678 |
|   | Within Groups  | 115,362        | 129 | ,894        |       |      |
|   | Total          | 116,061        | 131 |             |       |      |
| Price or rent                                       | Between Groups | ,499           | 2   | ,249        | ,288  | ,751 |
|   | Within Groups  | 108,376        | 125 | ,867        |       |      |
|   | Total          | 108,875        | 127 |             |       |      |
| Flexibility of workspace and the presence of others | Between Groups | ,141           | 2   | ,070        | ,096  | ,909 |
|   | Within Groups  | 76,182         | 104 | ,733        |       |      |
|   | Total          | 76,322         | 106 |             |       |      |
| Professional interaction at workspace               | Between Groups | ,163           | 2   | ,081        | ,074  | ,928 |
|   | Within Groups  | 131,354        | 120 | 1,095       |       |      |
|   | Total          | 131,516        | 122 |             |       |      |
| Sphere at/surroundings of workspace                 | Between Groups | ,018           | 2   | ,009        | ,015  | ,985 |
|   | Within Groups  | 70,450         | 122 | ,577        |       |      |
|   | Total          | 70,468         | 124 |             |       |      |
| Advantages from social and professional interaction | Between Groups | ,667           | 2   | ,334        | ,331  | ,719 |
|   | Within Groups  | 132,072        | 131 | 1,008       |       |      |
|   | Total          | 132,739        | 133 |             |       |      |
| Increased amount of work                            | Between Groups | ,146           | 2   | ,073        | ,095  | ,909 |
|   | Within Groups  | 98,869         | 129 | ,766        |       |      |
|   | Total          | 99,015         | 131 |             |       |      |
| More collaborations projects                        | Between Groups | 2,685          | 2   | 1,342       | 1,092 | ,338 |
|   | Within Groups  | 160,965        | 131 | 1,229       |       |      |
|   | Total          | 163,649        | 133 |             |       |      |

ANOVA

|                     |                | Sum of Squares | df  | Mean Square | F    | Sig. |
|---------------------|----------------|----------------|-----|-------------|------|------|
| Cost advantages     | Between Groups | 1,918          | 2   | ,959        | ,640 | ,529 |
|                     | Within Groups  | 197,815        | 132 | 1,499       |      |      |
|                     | Total          | 199,733        | 134 |             |      |      |
| Personal_advantages | Between Groups | ,087           | 2   | ,044        | ,127 | ,880 |
|                     | Within Groups  | 46,199         | 135 | ,342        |      |      |
|                     | Total          | 46,286         | 137 |             |      |      |

Oneway

ANOVA

|   |                | Sum of Squares | df  | Mean Square | F     | Sig. |
|---|----------------|----------------|-----|-------------|-------|------|
| Cluster advantages                                  | Between Groups | 1,909          | 7   | ,273        | ,391  | ,906 |
|   | Within Groups  | 95,536         | 137 | ,697        |       |      |
|   | Total          | 97,445         | 144 |             |       |      |
| Policy, subsidy or tax advantages                   | Between Groups | 4,002          | 7   | ,572        | ,369  | ,919 |
|   | Within Groups  | 192,384        | 124 | 1,551       |       |      |
|   | Total          | 196,386        | 131 |             |       |      |
| Accessibility                                       | Between Groups | 7,229          | 7   | 1,033       | 1,157 | ,331 |
|   | Within Groups  | 139,283        | 156 | ,893        |       |      |
|   | Total          | 146,512        | 163 |             |       |      |
| Cost minimization                                   | Between Groups | 5,877          | 7   | ,840        | ,707  | ,666 |
|   | Within Groups  | 167,331        | 141 | 1,187       |       |      |
|   | Total          | 173,208        | 148 |             |       |      |
| Presence of personal/social/family contacts         | Between Groups | 4,196          | 7   | ,599        | ,693  | ,678 |
|   | Within Groups  | 135,707        | 157 | ,864        |       |      |
|   | Total          | 139,903        | 164 |             |       |      |
| Urban atmosphere and cultural facilities            | Between Groups | 3,327          | 7   | ,475        | ,846  | ,551 |
|   | Within Groups  | 86,569         | 154 | ,562        |       |      |
|   | Total          | 89,897         | 161 |             |       |      |
| Tolerance   | Between Groups | 3,627          | 7   | ,518        | ,561  | ,787 |
|   | Within Groups  | 142,330        | 154 | ,924        |       |      |
|   | Total          | 145,957        | 161 |             |       |      |
| Price or rent                                       | Between Groups | 3,942          | 7   | ,563        | ,637  | ,724 |
|   | Within Groups  | 130,744        | 148 | ,883        |       |      |
|   | Total          | 134,686        | 155 |             |       |      |
| Flexibility of workspace and the presence of others | Between Groups | 1,584          | 7   | ,226        | ,295  | ,954 |
|   | Within Groups  | 89,594         | 117 | ,766        |       |      |
|   | Total          | 91,178         | 124 |             |       |      |
| Professional interaction at workspace               | Between Groups | 1,515          | 7   | ,216        | ,192  | ,987 |
|   | Within Groups  | 156,652        | 139 | 1,127       |       |      |
|   | Total          | 158,167        | 146 |             |       |      |
| Sphere at/surroundings of workspace                 | Between Groups | 2,961          | 7   | ,423        | ,728  | ,648 |
|   | Within Groups  | 83,079         | 143 | ,581        |       |      |
|   | Total          | 86,040         | 150 |             |       |      |
| Advantages from social and professional interaction | Between Groups | 4,590          | 7   | ,656        | ,668  | ,699 |
|   | Within Groups  | 150,168        | 153 | ,981        |       |      |
|   | Total          | 154,758        | 160 |             |       |      |
| Increased amount of work                            | Between Groups | 8,334          | 7   | 1,191       | 1,630 | ,131 |
|   | Within Groups  | 109,579        | 150 | ,731        |       |      |
|   | Total          | 117,913        | 157 |             |       |      |
| More collaborations projects                        | Between Groups | 5,079          | 7   | ,726        | ,618  | ,740 |
|   | Within Groups  | 177,198        | 151 | 1,173       |       |      |
|   | Total          | 182,277        | 158 |             |       |      |

ANOVA

|                     |                | Sum of Squares | df  | Mean Square | F     | Sig. |
|---------------------|----------------|----------------|-----|-------------|-------|------|
| Cost advantages     | Between Groups | 11,232         | 7   | 1,605       | 1,139 | ,341 |
|                     | Within Groups  | 219,713        | 156 | 1,408       |       |      |
|                     | Total          | 230,945        | 163 |             |       |      |
| Personal_advantages | Between Groups | 3,511          | 7   | ,502        | 1,446 | ,191 |
|                     | Within Groups  | 54,808         | 158 | ,347        |       |      |
|                     | Total          | 58,319         | 165 |             |       |      |

**T-Test**

**Group Statistics**

|   | Gender | N  | Mean   | Std. Deviation | Std. Error Mean |
|---|--------|----|--------|----------------|-----------------|
| Cluster advantages                                  | man    | 74 | 3,5676 | ,82342         | ,09572          |
|   | woman  | 49 | 3,7823 | ,76845         | ,10978          |
| Policy, subsidy or tax advantages                   | man    | 65 | 3,6769 | 1,22612        | ,15208          |
|   | woman  | 47 | 3,4468 | 1,19434        | ,17421          |
| Accessibility                                       | man    | 80 | 3,8250 | ,96489         | ,10788          |
|   | woman  | 56 | 3,8036 | ,94233         | ,12592          |
| Cost minimization                                   | man    | 74 | 3,4865 | 1,07580        | ,12506          |
|   | woman  | 51 | 3,5098 | 1,10223        | ,15434          |
| Presence of personal/social/family contacts         | man    | 83 | 4,1325 | ,93406         | ,10253          |
|   | woman  | 54 | 4,2407 | ,90980         | ,12381          |
| Urban atmosphere and cultural facilities            | man    | 80 | 4,0625 | ,79307         | ,08867          |
|   | woman  | 55 | 4,2273 | ,73168         | ,09866          |
| Tolerance   | man    | 79 | 3,7595 | ,92286         | ,10383          |
|   | woman  | 55 | 4,0909 | ,94815         | ,12785          |
| Price or rent                                       | man    | 77 | 3,8182 | ,98311         | ,11204          |
|   | woman  | 53 | 4,0189 | ,86582         | ,11893          |
| Flexibility of workspace and the presence of others | man    | 64 | 3,5938 | ,86774         | ,10847          |
|   | woman  | 44 | 3,4716 | ,84773         | ,12780          |
| Professional interaction at workspace               | man    | 75 | 3,5200 | 1,01821        | ,11757          |
|   | woman  | 49 | 3,6633 | 1,08679        | ,15526          |
| Sphere at/surroundings of workspace                 | man    | 77 | 3,7532 | ,73429         | ,08368          |
|   | woman  | 49 | 3,7959 | ,82725         | ,11818          |
| Advantages from social and professional interaction | man    | 83 | 3,5783 | ,96108         | ,10549          |
|   | woman  | 53 | 3,6132 | 1,05448        | ,14484          |
| Increased amount of work                            | man    | 85 | 3,3588 | ,84379         | ,09152          |
|   | woman  | 49 | 3,4286 | ,92421         | ,13203          |
| More collaborations projects                        | man    | 84 | 3,2976 | 1,09522        | ,11950          |
|   | woman  | 52 | 3,2500 | 1,13544        | ,15746          |
| Cost advantages                                     | man    | 84 | 3,3452 | 1,21729        | ,13282          |
|   | woman  | 53 | 3,6604 | 1,20804        | ,16594          |
| Personal_advantages                                 | man    | 84 | 4,0149 | ,59155         | ,06454          |
|   | woman  | 55 | 4,1455 | ,57068         | ,07695          |

**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|---|------|------------------------------|---------|
|   |                             | F                                       | Sig. | t                            | df      |
| Cluster advantages                                  | Equal variances assumed     | ,554                                    | ,458 | -1,454                       | 121     |
|   | Equal variances not assumed |   |      | -1,474                       | 107,772 |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | 1,011                                   | ,317 | ,991                         | 110     |
|   | Equal variances not assumed |   |      | ,995                         | 100,764 |
| Accessibility                                       | Equal variances assumed     | ,000                                    | ,995 | ,129                         | 134     |
|   | Equal variances not assumed |   |      | ,129                         | 120,259 |
| Cost minimization                                   | Equal variances assumed     | ,090                                    | ,765 | -,118                        | 123     |
|   | Equal variances not assumed |   |      | -,117                        | 105,931 |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,005                                    | ,941 | -,669                        | 135     |
|   | Equal variances not assumed |   |      | -,673                        | 115,506 |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,010                                    | ,921 | -1,224                       | 133     |
|   | Equal variances not assumed |   |      | -1,242                       | 122,039 |
| Tolerance   | Equal variances assumed     | ,020                                    | ,888 | -2,022                       | 132     |
|   | Equal variances not assumed |   |      | -2,012                       | 114,300 |
| Price or rent                                       | Equal variances assumed     | 1,532                                   | ,218 | -1,200                       | 128     |
|   | Equal variances not assumed |   |      | -1,228                       | 120,380 |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,206                                    | ,651 | ,726                         | 106     |
|   | Equal variances not assumed |   |      | ,729                         | 93,978  |
| Professional interaction at workspace               | Equal variances assumed     | 1,143                                   | ,287 | -,746                        | 122     |
|   | Equal variances not assumed |   |      | -,736                        | 97,946  |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | 1,754                                   | ,188 | -,303                        | 124     |
|   | Equal variances not assumed |   |      | -,295                        | 93,375  |

**Independent Samples Test**

|   |                             | t-test for Equality of Means |                 |                       |   |
|---|-----------------------------|------------------------------|-----------------|-----------------------|---|
|   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|   |                             |                              |                 |                       | Lower                                     |
| Cluster advantages                          | Equal variances assumed     | ,149                         | -,21475         | ,14772                | -,50720                                   |
|   | Equal variances not assumed | ,143                         | -,21475         | ,14565                | -,50345                                   |
| Policy, subsidy or tax advantages           | Equal variances assumed     | ,324                         | ,23011          | ,23224                | -,23013                                   |
|   | Equal variances not assumed | ,322                         | ,23011          | ,23125                | -,22865                                   |
| Accessibility                               | Equal variances assumed     | ,898                         | ,02143          | ,16651                | -,30791                                   |
|   | Equal variances not assumed | ,897                         | ,02143          | ,16581                | -,30687                                   |
| Cost minimization                           | Equal variances assumed     | ,906                         | -,02332         | ,19776                | -,41477                                   |
|   | Equal variances not assumed | ,907                         | -,02332         | ,19865                | -,41716                                   |
| Presence of personal/social/family contacts | Equal variances assumed     | ,504                         | -,10821         | ,16165                | -,42791                                   |



|   |                             |      |         |        |         |
|---|-----------------------------|------|---------|--------|---------|
|   | Equal variances not assumed | ,502 | -,10821 | ,16075 | -,42661 |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,223 | -,16477 | ,13465 | -,43111 |
|   | Equal variances not assumed | ,217 | -,16477 | ,13265 | -,42736 |
| Tolerance   | Equal variances assumed     | ,045 | -,33142 | ,16390 | -,65562 |
|   | Equal variances not assumed | ,047 | -,33142 | ,16470 | -,65767 |
| Price or rent                                       | Equal variances assumed     | ,232 | -,20069 | ,16728 | -,53167 |
|   | Equal variances not assumed | ,222 | -,20069 | ,16339 | -,52418 |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,470 | ,12216  | ,16836 | -,21163 |
|   | Equal variances not assumed | ,468 | ,12216  | ,16763 | -,21067 |
| Professional interaction at workspace               | Equal variances assumed     | ,457 | -,14327 | ,19209 | -,52352 |
|   | Equal variances not assumed | ,464 | -,14327 | ,19475 | -,52975 |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,763 | -,04267 | ,14101 | -,32176 |
|   | Equal variances not assumed | ,769 | -,04267 | ,14480 | -,33021 |

#### Independent Samples Test

|   |                             | t-test for Equality of Means              |         |
|---|-----------------------------|---|---------|
|   |                             | 95% Confidence Interval of the Difference |         |
|   |                             | Upper                                     |         |
| Cluster advantages                                  | Equal variances assumed     |   | ,07771  |
|   | Equal variances not assumed |   | ,07396  |
| Policy, subsidy or tax advantages                   | Equal variances assumed     |   | ,69036  |
|   | Equal variances not assumed |   | ,68888  |
| Accessibility                                       | Equal variances assumed     |   | ,35076  |
|   | Equal variances not assumed |   | ,34972  |
| Cost minimization                                   | Equal variances assumed     |   | ,36813  |
|   | Equal variances not assumed |   | ,37053  |
| Presence of personal/social/family contacts         | Equal variances assumed     |   | ,21149  |
|   | Equal variances not assumed |   | ,21019  |
| Urban atmosphere and cultural facilities            | Equal variances assumed     |   | ,10157  |
|   | Equal variances not assumed |   | ,09782  |
| Tolerance   | Equal variances assumed     |   | -,00721 |
|   | Equal variances not assumed |   | -,00516 |
| Price or rent                                       | Equal variances assumed     |   | ,13030  |
|   | Equal variances not assumed |   | ,12280  |
| Flexibility of workspace and the presence of others | Equal variances assumed     |   | ,45594  |
|   | Equal variances not assumed |   | ,45498  |
| Professional interaction at workspace               | Equal variances assumed     |   | ,23699  |
|   | Equal variances not assumed |   | ,24321  |
| Sphere at/surroundings of workspace                 | Equal variances assumed     |   | ,23642  |
|   | Equal variances not assumed |   | ,24487  |

Oneway

Descriptives

|   |                    | N           | Mean   | Std. Deviation | Std. Error | 95% Confidence Interval for Mean |
|---|--------------------|-------------|--------|----------------|------------|----------------------------------|
|   |                    | Lower Bound |        |                |            |                                  |
| Cluster advantages                                  | 15 years or longer | 72          | 3,5972 | ,86297         | ,10170     | 3,3944                           |
|   | 10-15 years        | 51          | 3,6993 | ,80348         | ,11251     | 3,4734                           |
|   | 5 years or less    | 22          | 3,6364 | ,75529         | ,16103     | 3,3015                           |
|   | Total              | 145         | 3,6391 | ,82262         | ,06831     | 3,5041                           |
| Policy, subsidy or tax advantages                   | 15 years or longer | 64          | 3,5156 | 1,29703        | ,16213     | 3,1916                           |
|   | 10-15 years        | 46          | 3,6739 | 1,07609        | ,15866     | 3,3544                           |
|   | 5 years or less    | 22          | 3,5000 | 1,33631        | ,28490     | 2,9075                           |
|   | Total              | 132         | 3,5682 | 1,22439        | ,10657     | 3,3574                           |
| Accessibility                                       | 15 years or longer | 86          | 3,9302 | ,94297         | ,10168     | 3,7281                           |
|   | 10-15 years        | 53          | 3,8113 | ,89993         | ,12361     | 3,5633                           |
|   | 5 years or less    | 24          | 3,4583 | 1,02062        | ,20833     | 3,0274                           |
|   | Total              | 163         | 3,8221 | ,94882         | ,07432     | 3,6753                           |
| Cost minimization                                   | 15 years or longer | 76          | 3,5132 | 1,10143        | ,12634     | 3,2615                           |
|   | 10-15 years        | 49          | 3,4898 | ,98155         | ,14022     | 3,2079                           |
|   | 5 years or less    | 23          | 3,5217 | 1,23838        | ,25822     | 2,9862                           |
|   | Total              | 148         | 3,5068 | 1,07853        | ,08865     | 3,3316                           |
| Presence of personal/social/family contacts         | 15 years or longer | 85          | 4,1294 | ,92309         | ,10012     | 3,9303                           |
|   | 10-15 years        | 54          | 4,1111 | ,96479         | ,13129     | 3,8478                           |
|   | 5 years or less    | 25          | 4,4000 | ,81650         | ,16330     | 4,0630                           |
|   | Total              | 164         | 4,1646 | ,92197         | ,07199     | 4,0225                           |
| Urban atmosphere and cultural facilities            | 15 years or longer | 83          | 4,2229 | ,78962         | ,08667     | 4,0505                           |
|   | 10-15 years        | 54          | 4,0463 | ,69546         | ,09464     | 3,8565                           |
|   | 5 years or less    | 24          | 4,0417 | ,70582         | ,14408     | 3,7436                           |
|   | Total              | 161         | 4,1366 | ,74789         | ,05894     | 4,0202                           |
| Tolerance   | 15 years or longer | 83          | 3,8795 | ,96774         | ,10622     | 3,6682                           |
|   | 10-15 years        | 54          | 4,0000 | ,86874         | ,11822     | 3,7629                           |
|   | 5 years or less    | 24          | 3,8750 | 1,11560        | ,22772     | 3,4039                           |
|   | Total              | 161         | 3,9193 | ,95509         | ,07527     | 3,7706                           |
| Price or rent                                       | 15 years or longer | 82          | 3,8293 | ,96615         | ,10669     | 3,6170                           |
|   | 10-15 years        | 51          | 3,7451 | ,95589         | ,13385     | 3,4762                           |
|   | 5 years or less    | 23          | 4,3478 | ,57277         | ,11943     | 4,1001                           |
|   | Total              | 156         | 3,8782 | ,93217         | ,07463     | 3,7308                           |
| Flexibility of workspace and the presence of others | 15 years or longer | 63          | 3,5714 | ,89288         | ,11249     | 3,3466                           |
|   | 10-15 years        | 42          | 3,3155 | ,78875         | ,12171     | 3,0697                           |
|   | 5 years or less    | 20          | 3,8125 | ,81465         | ,18216     | 3,4312                           |
|   | Total              | 125         | 3,5240 | ,85750         | ,07670     | 3,3722                           |
| Professional interaction at workspace               | 15 years or longer | 75          | 3,4267 | 1,03223        | ,11919     | 3,1892                           |
|   | 10-15 years        | 49          | 3,6429 | 1,06066        | ,15152     | 3,3382                           |
|   | 5 years or less    | 22          | 3,7727 | 1,03196        | ,22001     | 3,3152                           |
|   | Total              | 146         | 3,5514 | 1,04342        | ,08635     | 3,3807                           |
| Sphere at/surroundings of workspace                 | 15 years or longer | 79          | 3,7384 | ,75234         | ,08464     | 3,5699                           |

Descriptives

|   |                    | N           | Mean   | Std. Deviation | Std. Error | 95% Confidence Interval for Mean |
|---|--------------------|-------------|--------|----------------|------------|----------------------------------|
|   |                    | Lower Bound |        |                |            |                                  |
| Sphere at/surroundings of workspace                 | 10-15 years        | 49          | 3,8231 | ,78499         | ,11214     | 3,5977                           |
|   | 5 years or less    | 22          | 4,0152 | ,70130         | ,14952     | 3,7042                           |
|   | Total              | 150         | 3,8067 | ,75704         | ,06181     | 3,6845                           |
| Advantages from social and professional interaction | 15 years or longer | 82          | 3,7012 | ,91914         | ,10150     | 3,4993                           |
|   | 10-15 years        | 52          | 3,5481 | 1,05375        | ,14613     | 3,2547                           |
|   | 5 years or less    | 26          | 3,5192 | 1,06283        | ,20844     | 3,0899                           |
| Increased amount of work                            | Total              | 160         | 3,6219 | ,98534         | ,07790     | 3,4680                           |
|   | 15 years or longer | 81          | 3,3395 | ,91114         | ,10124     | 3,1380                           |
|   | 10-15 years        | 51          | 3,3922 | ,73016         | ,10224     | 3,1868                           |
| More collaborations projects                        | 5 years or less    | 25          | 3,8000 | ,92421         | ,18484     | 3,4185                           |
|   | Total              | 157         | 3,4299 | ,86872         | ,06933     | 3,2930                           |
|   | 15 years or longer | 81          | 3,2963 | 1,05409        | ,11712     | 3,0632                           |
| Cost advantages                                     | 10-15 years        | 51          | 3,1569 | 1,04638        | ,14652     | 2,8626                           |
|   | 5 years or less    | 26          | 3,6923 | 1,15825        | ,22715     | 3,2245                           |
|   | Total              | 158         | 3,3165 | 1,07720        | ,08570     | 3,1472                           |
| Personal_advantages                                 | 15 years or longer | 83          | 3,3614 | 1,19530        | ,13120     | 3,1004                           |
|   | 10-15 years        | 54          | 3,4259 | 1,19119        | ,16210     | 3,1008                           |
|   | 5 years or less    | 26          | 4,0000 | 1,09545        | ,21483     | 3,5575                           |
| Personal_advantages                                 | Total              | 163         | 3,4847 | 1,19338        | ,09347     | 3,3001                           |
|   | 15 years or longer | 84          | 4,1339 | ,63938         | ,06976     | 3,9952                           |
|   | 10-15 years        | 55          | 4,0864 | ,53623         | ,07231     | 3,9414                           |
| Personal_advantages                                 | 5 years or less    | 26          | 3,9615 | ,53241         | ,10441     | 3,7465                           |
|   | Total              | 165         | 4,0909 | ,59025         | ,04595     | 4,0002                           |

## ANOVA

|   |                | Sum of Squares | df  | Mean Square | F     | Sig. |
|---|----------------|----------------|-----|-------------|-------|------|
| Cluster advantages                                  | Between Groups | ,312           | 2   | ,156        | ,228  | ,797 |
|   | Within Groups  | 97,134         | 142 | ,684        |       |      |
|   | Total          | 97,445         | 144 |             |       |      |
| Policy, subsidy or tax advantages                   | Between Groups | ,793           | 2   | ,397        | ,262  | ,770 |
|   | Within Groups  | 195,593        | 129 | 1,516       |       |      |
|   | Total          | 196,386        | 131 |             |       |      |
| Accessibility                                       | Between Groups | 4,188          | 2   | 2,094       | 2,365 | ,097 |
|   | Within Groups  | 141,653        | 160 | ,885        |       |      |
|   | Total          | 145,840        | 162 |             |       |      |
| Cost minimization                                   | Between Groups | ,022           | 2   | ,011        | ,009  | ,991 |
|   | Within Groups  | 170,971        | 145 | 1,179       |       |      |
|   | Total          | 170,993        | 147 |             |       |      |
| Presence of personal/social/family contacts         | Between Groups | 1,645          | 2   | ,823        | ,967  | ,382 |
|   | Within Groups  | 136,910        | 161 | ,850        |       |      |
|   | Total          | 138,555        | 163 |             |       |      |
| Urban atmosphere and cultural facilities            | Between Groups | 1,275          | 2   | ,637        | 1,141 | ,322 |
|   | Within Groups  | 88,219         | 158 | ,558        |       |      |
|   | Total          | 89,494         | 160 |             |       |      |
| Tolerance   | Between Groups | ,530           | 2   | ,265        | ,288  | ,750 |
|   | Within Groups  | 145,420        | 158 | ,920        |       |      |
|   | Total          | 145,950        | 160 |             |       |      |
| Price or rent                                       | Between Groups | 6,172          | 2   | 3,086       | 3,674 | ,028 |
|   | Within Groups  | 128,513        | 153 | ,840        |       |      |
|   | Total          | 134,686        | 155 |             |       |      |
| Flexibility of workspace and the presence of others | Between Groups | 3,633          | 2   | 1,816       | 2,531 | ,084 |
|   | Within Groups  | 87,545         | 122 | ,718        |       |      |
|   | Total          | 91,178         | 124 |             |       |      |
| Professional interaction at workspace               | Between Groups | 2,654          | 2   | 1,327       | 1,223 | ,297 |
|   | Within Groups  | 155,210        | 143 | 1,085       |       |      |
|   | Total          | 157,865        | 145 |             |       |      |
| Sphere at/surroundings of workspace                 | Between Groups | 1,338          | 2   | ,669        | 1,170 | ,313 |
|   | Within Groups  | 84,056         | 147 | ,572        |       |      |
|   | Total          | 85,393         | 149 |             |       |      |
| Advantages from social and professional interaction | Between Groups | 1,073          | 2   | ,537        | ,550  | ,578 |
|   | Within Groups  | 153,300        | 157 | ,976        |       |      |
|   | Total          | 154,373        | 159 |             |       |      |
| Increased amount of work                            | Between Groups | 4,159          | 2   | 2,079       | 2,820 | ,063 |
|   | Within Groups  | 113,570        | 154 | ,737        |       |      |
|   | Total          | 117,729        | 156 |             |       |      |
| More collaborations projects                        | Between Groups | 5,005          | 2   | 2,502       | 2,189 | ,115 |
|   | Within Groups  | 177,172        | 155 | 1,143       |       |      |
|   | Total          | 182,177        | 157 |             |       |      |

## ANOVA

|                     |                | Sum of Squares | df  | Mean Square | F     | Sig. |
|---------------------|----------------|----------------|-----|-------------|-------|------|
| Cost advantages     | Between Groups | 8,351          | 2   | 4,176       | 3,005 | ,052 |
|                     | Within Groups  | 222,360        | 160 | 1,390       |       |      |
|                     | Total          | 230,712        | 162 |             |       |      |
| Personal_advantages | Between Groups | ,592           | 2   | ,296        | ,848  | ,430 |
|                     | Within Groups  | 56,545         | 162 | ,349        |       |      |
|                     | Total          | 57,136         | 164 |             |       |      |

## Post Hoc Tests

## Multiple Comparisons

| Scheffe   |                       |                       |                       |            |       |
|---|-----------------------|-----------------------|-----------------------|------------|-------|
| Dependent Variable                                  | (I) Settlement_groups | (J) Settlement_groups | Mean Difference (I-J) | Std. Error | Sig.  |
| Tolerance   | 5 years or less       | 15 years or longer    | -,00452               | ,22235     | 1,000 |
|   |                       | 10-15 years           | -,12500               | ,23536     | ,869  |
|   | 15 years or longer    | 10-15 years           | ,08417                | ,16344     | ,876  |
| Price or rent                                       | 10-15 years           | 5 years or less       | -,51856               | ,21625     | ,059  |
|   |                       | 15 years or longer    | -,08417               | ,16344     | ,876  |
|   | 5 years or less       | 15 years or longer    | -,60273               | ,23019     | ,035  |
| Flexibility of workspace and the presence of others | 10-15 years           | 5 years or less       | ,51856                | ,21625     | ,059  |
|   |                       | 15 years or longer    | ,60273                | ,23019     | ,035  |
|   | 5 years or less       | 10-15 years           | ,25595                | ,16875     | ,320  |
| Professional interaction at workspace               | 15 years or longer    | 5 years or less       | -,24107               | ,21742     | ,542  |
|   |                       | 10-15 years           | -,25595               | ,16875     | ,320  |
|   | 10-15 years           | 5 years or less       | -,49702               | ,23014     | ,101  |
| Professional interaction at workspace               | 5 years or less       | 15 years or longer    | ,24107                | ,21742     | ,542  |
|   |                       | 10-15 years           | ,49702                | ,23014     | ,101  |
|   | 15 years or longer    | 10-15 years           | -,21619               | ,19137     | ,530  |
| Professional interaction at workspace               | 15 years or longer    | 5 years or less       | -,34606               | ,25260     | ,394  |
|   |                       | 10-15 years           | -,21619               | ,19137     | ,530  |
|   | 10-15 years           | 5 years or less       | -,12987               | ,26737     | ,889  |

|   |                    |                    |         |        |      |
|---|--------------------|--------------------|---------|--------|------|
|   | 5 years or less    | 15 years or longer | ,34606  | ,25260 | ,394 |
|   |                    | 10-15 years        | ,12987  | ,26737 | ,889 |
|   | 15 years or longer | 10-15 years        | -,08473 | ,13750 | ,827 |
|   |                    | 5 years or less    | -,27675 | ,18229 | ,319 |
| Sphere at/surroundings of workspace                 | 10-15 years        | 15 years or longer | ,08473  | ,13750 | ,827 |
|   |                    | 5 years or less    | -,19202 | ,19406 | ,614 |
|   | 5 years or less    | 15 years or longer | ,27675  | ,18229 | ,319 |
|   |                    | 10-15 years        | ,19202  | ,19406 | ,614 |
|   | 15 years or longer | 10-15 years        | ,15314  | ,17517 | ,683 |
|   |                    | 5 years or less    | ,18199  | ,22240 | ,716 |
| Advantages from social and professional interaction | 10-15 years        | 15 years or longer | -,15314 | ,17517 | ,683 |
|   |                    | 5 years or less    | ,02885  | ,23735 | ,993 |
|   | 5 years or less    | 15 years or longer | -,18199 | ,22240 | ,716 |
|   |                    | 10-15 years        | -,02885 | ,23735 | ,993 |
|   | 15 years or longer | 10-15 years        | -,05265 | ,15351 | ,943 |
|   |                    | 5 years or less    | -,46049 | ,19648 | ,067 |
| Increased amount of work                            | 10-15 years        | 15 years or longer | ,05265  | ,15351 | ,943 |
|   |                    | 5 years or less    | -,40784 | ,20966 | ,154 |
|   | 5 years or less    | 15 years or longer | ,46049  | ,19648 | ,067 |
|   |                    | 10-15 years        | ,40784  | ,20966 | ,154 |
| More collaborations projects                        | 15 years or longer | 10-15 years        | ,13943  | ,19111 | ,767 |
|   |                    | 5 years or less    | -,39601 | ,24099 | ,262 |

### Multiple Comparisons

Scheffe

| Dependent Variable                                  | (I) Settlement_groups | (J) Settlement_groups | 95% Confidence Interval |             |
|---|-----------------------|-----------------------|-------------------------|-------------|
|   |                       |                       | Lower Bound             | Upper Bound |
| Tolerance   | 5 years or less       | 15 years or longer    | -,5540                  | ,5449       |
|   |                       | 10-15 years           | -,7066                  | ,4566       |
|   | 15 years or longer    | 10-15 years           | -,3198                  | ,4882       |
| Price or rent                                       | 10-15 years           | 5 years or less       | -1,0531                 | ,0160       |
|   |                       | 15 years or longer    | -,4882                  | ,3198       |
|   | 5 years or less       | 15 years or longer    | -1,1717                 | -,0337      |
| Flexibility of workspace and the presence of others | 5 years or less       | 15 years or longer    | -,0160                  | 1,0531      |
|   |                       | 10-15 years           | ,0337                   | 1,1717      |
|   | 15 years or longer    | 10-15 years           | -,1622                  | ,6741       |
| Professional interaction at workspace               | 10-15 years           | 5 years or less       | -,7799                  | ,2977       |
|   |                       | 15 years or longer    | -,6741                  | ,1622       |
|   | 5 years or less       | 15 years or longer    | -1,0673                 | ,0733       |
| Sphere at/surroundings of workspace                 | 5 years or less       | 10-15 years           | -,2977                  | ,7799       |
|   |                       | 15 years or longer    | -,0733                  | 1,0673      |
|   | 15 years or longer    | 10-15 years           | -,6896                  | ,2572       |
| Advantages from social and professional interaction | 10-15 years           | 5 years or less       | -,9709                  | ,2788       |
|   |                       | 15 years or longer    | -,2572                  | ,6896       |
|   | 5 years or less       | 15 years or longer    | -,7912                  | ,5315       |
| Increased amount of work                            | 10-15 years           | 5 years or less       | -,2788                  | ,9709       |
|   |                       | 15 years or longer    | -,5315                  | ,7912       |
|   | 15 years or longer    | 10-15 years           | -,4248                  | ,2553       |
| More collaborations projects                        | 10-15 years           | 5 years or less       | -,7275                  | ,1740       |
|   |                       | 15 years or longer    | -,2553                  | ,4248       |
|   | 5 years or less       | 15 years or longer    | -,6719                  | ,2879       |
| Sphere at/surroundings of workspace                 | 5 years or less       | 15 years or longer    | -,1740                  | ,7275       |
|   |                       | 10-15 years           | -,2879                  | ,6719       |
|   | 15 years or longer    | 10-15 years           | -,2798                  | ,5860       |
| Advantages from social and professional interaction | 5 years or less       | 15 years or longer    | -,3676                  | ,7316       |
|   |                       | 10-15 years           | -,5860                  | ,2798       |
|   | 10-15 years           | 5 years or less       | -,5577                  | ,6154       |
| Increased amount of work                            | 5 years or less       | 15 years or longer    | -,7316                  | ,3676       |
|   |                       | 10-15 years           | -,6154                  | ,5577       |
|   | 15 years or longer    | 10-15 years           | -,4321                  | ,3268       |
| More collaborations projects                        | 10-15 years           | 5 years or less       | -,9461                  | ,0251       |
|   |                       | 15 years or longer    | -,3268                  | ,4321       |
|   | 5 years or less       | 15 years or longer    | -,9261                  | ,1104       |
|   |                       | 10-15 years           | -,0251                  | ,9461       |
|   |                       | 10-15 years           | -,1104                  | ,9261       |
|   |                       | 10-15 years           | -,3329                  | ,6118       |
|   |                       | 5 years or less       | -,9916                  | ,1996       |

### Price or rent

Scheffe

| Settlement_groups  | N  | Subset for alpha = 0.05 |        |
|--------------------|----|-------------------------|--------|
|                    |    | 1                       | 2      |
| 10-15 years        | 51 | 3,7451                  |        |
| 15 years or longer | 82 | 3,8293                  |        |
| 5 years or less    | 23 |                         | 4,3478 |
| Sig.               |    | ,919                    | 1,000  |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 39,851.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

## Appendix 9: Comparing workspaces: independent-samples t-test

### T-Test

|   |                   | Group Statistics |        |                |                 |
|---|-------------------|------------------|--------|----------------|-----------------|
|   | home/home office  | N                | Mean   | Std. Deviation | Std. Error Mean |
| Cluster advantages                                  | None home workers | 77               | 3,7489 | ,82921         | ,09450          |
|   | Home workers      | 68               | 3,5147 | ,80305         | ,09738          |
| Policy, subsidy or tax advantages                   | None home workers | 73               | 3,6712 | 1,25891        | ,14734          |
|   | Home workers      | 59               | 3,4407 | 1,17841        | ,15342          |
| Accessibility                                       | None home workers | 86               | 3,8140 | 1,01183        | ,10911          |
|   | Home workers      | 78               | 3,8205 | ,87895         | ,09952          |
| Cost minimization                                   | None home workers | 78               | 3,4487 | 1,15823        | ,13114          |
|   | Home workers      | 71               | 3,5915 | ,99395         | ,11796          |
| Presence of personal/social/family contacts         | None home workers | 85               | 4,2235 | ,94335         | ,10232          |
|   | Home workers      | 80               | 4,0875 | ,90279         | ,10094          |
| Urban atmosphere and cultural facilities            | None home workers | 83               | 4,1506 | ,74382         | ,08164          |
|   | Home workers      | 79               | 4,1139 | ,75511         | ,08496          |
| Tolerance   | None home workers | 83               | 3,9880 | ,95629         | ,10497          |
|   | Home workers      | 79               | 3,8481 | ,94853         | ,10672          |
| Price or rent                                       | None home workers | 85               | 3,8588 | ,95310         | ,10338          |
|   | Home workers      | 71               | 3,9014 | ,91269         | ,10832          |
| Flexibility of workspace and the presence of others | None home workers | 78               | 3,5865 | ,82850         | ,09381          |
|   | Home workers      | 47               | 3,4202 | ,90305         | ,13172          |
| Professional interaction at workspace               | None home workers | 82               | 3,6890 | ,98958         | ,10928          |
|   | Home workers      | 65               | 3,3692 | 1,08353        | ,13440          |
| Sphere at/surroundings of workspace                 | None home workers | 84               | 3,9683 | ,69348         | ,07566          |
|   | Home workers      | 67               | 3,5920 | ,78672         | ,09611          |
| Advantages from social and professional interaction | None home workers | 86               | 3,8895 | ,81674         | ,08807          |
|   | Home workers      | 75               | 3,3067 | 1,06826        | ,12335          |
| Increased amount of work                            | None home workers | 85               | 3,5529 | ,84875         | ,09206          |
|   | Home workers      | 73               | 3,2808 | ,86997         | ,10182          |
| More collaborations projects                        | None home workers | 85               | 3,3647 | ,98618         | ,10697          |
|   | Home workers      | 74               | 3,2568 | 1,17112        | ,13614          |
| Cost advantages                                     | None home workers | 87               | 3,4253 | 1,19721        | ,12835          |
|   | Home workers      | 77               | 3,5455 | 1,18705        | ,13528          |
| Personal_advantages                                 | None home workers | 86               | 4,1541 | ,55329         | ,05966          |
|   | Home workers      | 80               | 4,0094 | ,63076         | ,07052          |

### Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|---|------|------------------------------|---------|
|   |                             | F                                       | Sig. | t                            | df      |
| Cluster advantages                                  | Equal variances assumed     | ,006                                    | ,938 | 1,723                        | 143     |
|   | Equal variances not assumed |   |      | 1,726                        | 141,768 |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | 2,840                                   | ,094 | 1,076                        | 130     |
|   | Equal variances not assumed |   |      | 1,084                        | 127,179 |
| Accessibility                                       | Equal variances assumed     | 1,713                                   | ,192 | -,044                        | 162     |
|   | Equal variances not assumed |   |      | -,044                        | 161,710 |
| Cost minimization                                   | Equal variances assumed     | 3,919                                   | ,050 | -,804                        | 147     |
|   | Equal variances not assumed |   |      | -,810                        | 146,507 |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,885                                    | ,348 | ,945                         | 163     |
|   | Equal variances not assumed |   |      | ,946                         | 162,953 |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,001                                    | ,979 | ,311                         | 160     |
|   | Equal variances not assumed |   |      | ,311                         | 159,332 |
| Tolerance   | Equal variances assumed     | ,184                                    | ,669 | ,934                         | 160     |
|   | Equal variances not assumed |   |      | ,934                         | 159,724 |
| Price or rent                                       | Equal variances assumed     | ,029                                    | ,866 | -,283                        | 154     |
|   | Equal variances not assumed |   |      | -,284                        | 151,118 |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,528                                    | ,469 | 1,051                        | 123     |
|   | Equal variances not assumed |   |      | 1,029                        | 90,574  |
| Professional interaction at workspace               | Equal variances assumed     | 1,490                                   | ,224 | 1,866                        | 145     |
|   | Equal variances not assumed |   |      | 1,846                        | 131,268 |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,865                                    | ,354 | 3,120                        | 149     |
|   | Equal variances not assumed |   |      | 3,076                        | 132,645 |

### Independent Samples Test

|                                   |                             | t-test for Equality of Means |                 |                       |   |
|-----------------------------------|-----------------------------|------------------------------|-----------------|-----------------------|---|
|                                   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|                                   |                             |                              |                 |                       | Lower                                     |
| Cluster advantages                | Equal variances assumed     | ,087                         | ,23421          | ,13597                | -,03456                                   |
|                                   | Equal variances not assumed | ,087                         | ,23421          | ,13570                | -,03404                                   |
| Policy, subsidy or tax advantages | Equal variances assumed     | ,284                         | ,23055          | ,21422                | -,19325                                   |
|                                   | Equal variances not assumed | ,280                         | ,23055          | ,21271                | -,19036                                   |
| Accessibility                     | Equal variances assumed     | ,965                         | -,00656         | ,14870                | -,30019                                   |
|                                   | Equal variances not assumed | ,965                         | -,00656         | ,14768                | -,29819                                   |

|   |                             |      |         |        |         |
|---|-----------------------------|------|---------|--------|---------|
| Cost minimization                                   | Equal variances assumed     | ,423 | -,14283 | ,17766 | -,49393 |
|   | Equal variances not assumed | ,419 | -,14283 | ,17639 | -,49143 |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,346 | ,13603  | ,14392 | -,14816 |
|   | Equal variances not assumed | ,345 | ,13603  | ,14373 | -,14778 |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,756 | ,03668  | ,11778 | -,19593 |
|   | Equal variances not assumed | ,756 | ,03668  | ,11783 | -,19603 |
| Tolerance   | Equal variances assumed     | ,352 | ,13985  | ,14972 | -,15583 |
|   | Equal variances not assumed | ,352 | ,13985  | ,14969 | -,15577 |
| Price or rent                                       | Equal variances assumed     | ,777 | -,04258 | ,15032 | -,33954 |
|   | Equal variances not assumed | ,776 | -,04258 | ,14973 | -,33842 |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,295 | ,16633  | ,15827 | -,14697 |
|   | Equal variances not assumed | ,306 | ,16633  | ,16171 | -,15492 |
| Professional interaction at workspace               | Equal variances assumed     | ,064 | ,31979  | ,17140 | -,01898 |
|   | Equal variances not assumed | ,067 | ,31979  | ,17322 | -,02287 |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,002 | ,37621  | ,12059 | ,13792  |
|   | Equal variances not assumed | ,003 | ,37621  | ,12232 | ,13426  |

#### Independent Samples Test

|   |                             | t-test for<br>Equality of<br>Means                 |
|---|-----------------------------|--|
|   |                             | 95%<br>Confidence<br>Interval of the<br>Difference |
|   |                             | Upper  |
| Cluster advantages                                  | Equal variances assumed     | ,50298   |
|   | Equal variances not assumed | ,50246   |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | ,65436   |
|   | Equal variances not assumed | ,65147   |
| Accessibility                                       | Equal variances assumed     | ,28707   |
|   | Equal variances not assumed | ,28507   |
| Cost minimization                                   | Equal variances assumed     | ,20827   |
|   | Equal variances not assumed | ,20576   |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,42022   |
|   | Equal variances not assumed | ,41984   |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,26929   |
|   | Equal variances not assumed | ,26938   |
| Tolerance   | Equal variances assumed     | ,43553   |
|   | Equal variances not assumed | ,43547   |
| Price or rent                                       | Equal variances assumed     | ,25437   |
|   | Equal variances not assumed | ,25325   |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,47962   |
|   | Equal variances not assumed | ,48757   |
| Professional interaction at workspace               | Equal variances assumed     | ,65856   |
|   | Equal variances not assumed | ,66245   |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,61451   |
|   | Equal variances not assumed | ,61817   |

#### Independent Samples Test

|   |                             | Levene's Test for Equality of<br>Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|--|------|------------------------------|---------|
|   |                             | F  | Sig. | t                            | df      |
| Advantages from social and professional interaction | Equal variances assumed     | 8,682                                      | ,004 | 3,916                        | 159     |
|   | Equal variances not assumed |  |      | 3,846                        | 137,557 |
| Increased amount of work                            | Equal variances assumed     | ,099                                       | ,754 | 1,986                        | 156     |
|   | Equal variances not assumed |  |      | 1,982                        | 151,214 |
| More collaborations projects                        | Equal variances assumed     | 4,697                                      | ,032 | ,631                         | 157     |
|   | Equal variances not assumed |  |      | ,623                         | 143,443 |
| Cost advantages                                     | Equal variances assumed     | ,002                                       | ,964 | -,644                        | 162     |
|   | Equal variances not assumed |  |      | -,644                        | 159,906 |
| Personal_advantages                                 | Equal variances assumed     | ,646                                       | ,423 | 1,574                        | 164     |
|   | Equal variances not assumed |  |      | 1,566                        | 157,547 |

**Independent Samples Test**

|   |                             | t-test for Equality of Means |                 |                       |   |
|---|-----------------------------|------------------------------|-----------------|-----------------------|---|
|   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|   |                             |                              |                 |                       | Lower                                     |
| Advantages from social and professional interaction | Equal variances assumed     | ,000                         | ,58287          | ,14886                | ,28888                                    |
|   | Equal variances not assumed | ,000                         | ,58287          | ,15157                | ,28317                                    |
| Increased amount of work                            | Equal variances assumed     | ,049                         | ,27212          | ,13701                | ,00148                                    |
|   | Equal variances not assumed | ,049                         | ,27212          | ,13727                | ,00091                                    |
| More collaborations projects                        | Equal variances assumed     | ,529                         | ,10795          | ,17110                | -,23000                                   |
|   | Equal variances not assumed | ,534                         | ,10795          | ,17314                | -,23428                                   |
| Cost advantages                                     | Equal variances assumed     | ,520                         | -,12017         | ,18658                | -,48860                                   |
|   | Equal variances not assumed | ,520                         | -,12017         | ,18648                | -,48845                                   |
| Personal_advantages                                 | Equal variances assumed     | ,117                         | ,14469          | ,09194                | -,03684                                   |
|   | Equal variances not assumed | ,119                         | ,14469          | ,09237                | -,03776                                   |

**Independent Samples Test**

|   |                             | t-test for Equality of Means              |
|---|-----------------------------|---|
|   |                             | 95% Confidence Interval of the Difference |
|   |                             | Upper                                     |
| Advantages from social and professional interaction | Equal variances assumed     | ,87686                                    |
|   | Equal variances not assumed | ,88257                                    |
| Increased amount of work                            | Equal variances assumed     | ,54275                                    |
|   | Equal variances not assumed | ,54333                                    |
| More collaborations projects                        | Equal variances assumed     | ,44590                                    |
|   | Equal variances not assumed | ,45018                                    |
| Cost advantages                                     | Equal variances assumed     | ,24827                                    |
|   | Equal variances not assumed | ,24811                                    |
| Personal_advantages                                 | Equal variances assumed     | ,32623                                    |
|   | Equal variances not assumed | ,32714                                    |

T-Test

Group Statistics

|   | office building or other business location | N   | Mean   | Std. Deviation | Std. Error Mean |
|---|--|-----|--------|----------------|-----------------|
| Cluster advantages                                  | No   | 92  | 3,6051 | ,84866         | ,08848          |
|   | Office workers                             | 53  | 3,6981 | ,77972         | ,10710          |
| Policy, subsidy or tax advantages                   | No   | 86  | 3,5116 | 1,20532        | ,12997          |
|   | Office workers                             | 46  | 3,6739 | 1,26587        | ,18664          |
| Accessibility                                       | No   | 106 | 3,7830 | ,93610         | ,09092          |
|   | Office workers                             | 58  | 3,8793 | ,97473         | ,12799          |
| Cost minimization                                   | No   | 97  | 3,5258 | 1,10012        | ,11170          |
|   | Office workers                             | 52  | 3,5000 | 1,05719        | ,14661          |
| Presence of personal/social/family contacts         | No   | 108 | 4,1852 | ,87700         | ,08439          |
|   | Office workers                             | 57  | 4,1053 | 1,01214        | ,13406          |
| Urban atmosphere and cultural facilities            | No   | 106 | 4,1132 | ,77239         | ,07502          |
|   | Office workers                             | 56  | 4,1696 | ,70244         | ,09387          |
| Tolerance   | No   | 106 | 3,9151 | ,94736         | ,09202          |
|   | Office workers                             | 56  | 3,9286 | ,96967         | ,12958          |
| Price or rent                                       | No   | 100 | 3,9300 | ,86754         | ,08675          |
|   | Office workers                             | 56  | 3,7857 | 1,03948        | ,13891          |
| Flexibility of workspace and the presence of others | No   | 75  | 3,5100 | ,89710         | ,10359          |
|   | Office workers                             | 50  | 3,5450 | ,80288         | ,11354          |
| Professional interaction at workspace               | No   | 92  | 3,5543 | 1,10059        | ,11474          |
|   | Office workers                             | 55  | 3,5364 | ,94209         | ,12703          |
| Sphere at/surroundings of workspace                 | No   | 94  | 3,7340 | ,77340         | ,08123          |
|   | Office workers                             | 57  | 3,9123 | ,69729         | ,09236          |
| Advantages from social and professional interaction | No   | 102 | 3,5294 | 1,01918        | ,10091          |
|   | Office workers                             | 59  | 3,7712 | ,90650         | ,11802          |
| Increased amount of work                            | No   | 100 | 3,3700 | ,90626         | ,09063          |
|   | Office workers                             | 58  | 3,5259 | ,79153         | ,10393          |
| More collaborations projects                        | No   | 100 | 3,3300 | 1,12864        | ,11286          |
|   | Office workers                             | 59  | 3,2881 | ,98350         | ,12804          |
| Cost advantages                                     | No   | 105 | 3,6095 | 1,17256        | ,11443          |
|   | Office workers                             | 59  | 3,2542 | 1,19760        | ,15591          |
| Personal_advantages                                 | No   | 108 | 4,0648 | ,58841         | ,05662          |
|   | Office workers                             | 58  | 4,1207 | ,60922         | ,07999          |

Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|---|------|------------------------------|---------|
|   |                             | F                                       | Sig. | t                            | df      |
| Cluster advantages                                  | Equal variances assumed     | 1,100                                   | ,296 | -,655                        | 143     |
|   | Equal variances not assumed |   |      | -,670                        | 116,254 |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | 1,027                                   | ,313 | -,724                        | 130     |
|   | Equal variances not assumed |   |      | -,714                        | 88,241  |
| Accessibility                                       | Equal variances assumed     | ,025                                    | ,875 | -,621                        | 162     |
|   | Equal variances not assumed |   |      | -,613                        | 113,374 |
| Cost minimization                                   | Equal variances assumed     | ,401                                    | ,527 | ,138                         | 147     |
|   | Equal variances not assumed |   |      | ,140                         | 108,054 |
| Presence of personal/social/family contacts         | Equal variances assumed     | 2,626                                   | ,107 | ,527                         | 163     |
|   | Equal variances not assumed |   |      | ,505                         | 100,882 |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,827                                    | ,365 | -,456                        | 160     |
|   | Equal variances not assumed |   |      | -,470                        | 121,695 |
| Tolerance   | Equal variances assumed     | ,040                                    | ,843 | -,085                        | 160     |
|   | Equal variances not assumed |   |      | -,085                        | 109,827 |
| Price or rent                                       | Equal variances assumed     | 4,250                                   | ,041 | ,927                         | 154     |
|   | Equal variances not assumed |   |      | ,881                         | 97,992  |
| Flexibility of workspace and the presence of others | Equal variances assumed     | 1,655                                   | ,201 | -,223                        | 123     |
|   | Equal variances not assumed |   |      | -,228                        | 112,779 |
| Professional interaction at workspace               | Equal variances assumed     | 4,458                                   | ,036 | ,101                         | 145     |
|   | Equal variances not assumed |   |      | ,105                         | 127,643 |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,300                                    | ,585 | -1,406                       | 149     |
|   | Equal variances not assumed |   |      | -1,449                       | 129,490 |

Independent Samples Test

|                                   |                             | t-test for Equality of Means |                 |                       |   |
|-----------------------------------|-----------------------------|------------------------------|-----------------|-----------------------|---|
|                                   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|                                   |                             |                              |                 |                       | Lower                                     |
| Cluster advantages                | Equal variances assumed     | ,514                         | -,09304         | ,14214                | -,37401                                   |
|                                   | Equal variances not assumed | ,504                         | -,09304         | ,13892                | -,36819                                   |
| Policy, subsidy or tax advantages | Equal variances assumed     | ,470                         | -,16229         | ,22406                | -,60557                                   |
|                                   | Equal variances not assumed | ,477                         | -,16229         | ,22744                | -,61425                                   |



|   |                             |      |         |        |         |
|---|-----------------------------|------|---------|--------|---------|
| Accessibility                                       | Equal variances assumed     | ,536 | -,09629 | ,15514 | -,40265 |
|   | Equal variances not assumed | ,541 | -,09629 | ,15700 | -,40732 |
| Cost minimization                                   | Equal variances assumed     | ,890 | ,02577  | ,18655 | -,34290 |
|   | Equal variances not assumed | ,889 | ,02577  | ,18431 | -,33956 |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,599 | ,07992  | ,15155 | -,21932 |
|   | Equal variances not assumed | ,615 | ,07992  | ,15841 | -,23433 |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,649 | -,05644 | ,12375 | -,30083 |
|   | Equal variances not assumed | ,639 | -,05644 | ,12016 | -,29432 |
| Tolerance   | Equal variances assumed     | ,932 | -,01348 | ,15778 | -,32508 |
|   | Equal variances not assumed | ,933 | -,01348 | ,15893 | -,32843 |
| Price or rent                                       | Equal variances assumed     | ,355 | ,14429  | ,15565 | -,16321 |
|   | Equal variances not assumed | ,380 | ,14429  | ,16377 | -,18071 |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,824 | -,03500 | ,15716 | -,34609 |
|   | Equal variances not assumed | ,820 | -,03500 | ,15370 | -,33951 |
| Professional interaction at workspace               | Equal variances assumed     | ,920 | ,01798  | ,17801 | -,33384 |
|   | Equal variances not assumed | ,916 | ,01798  | ,17118 | -,32074 |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,162 | -,17824 | ,12673 | -,42866 |
|   | Equal variances not assumed | ,150 | -,17824 | ,12300 | -,42158 |

#### Independent Samples Test

|   |                             | t-test for Equality of Means              |
|---|-----------------------------|---|
|   |                             | 95% Confidence Interval of the Difference |
|   |                             | Upper                                     |
| Cluster advantages                                  | Equal variances assumed     | ,18793                                    |
|   | Equal variances not assumed | ,18211                                    |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | ,28099                                    |
|   | Equal variances not assumed | ,28968                                    |
| Accessibility                                       | Equal variances assumed     | ,21006                                    |
|   | Equal variances not assumed | ,21473                                    |
| Cost minimization                                   | Equal variances assumed     | ,39445                                    |
|   | Equal variances not assumed | ,39111                                    |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,37917                                    |
|   | Equal variances not assumed | ,39417                                    |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,18796                                    |
|   | Equal variances not assumed | ,18145                                    |
| Tolerance   | Equal variances assumed     | ,29812                                    |
|   | Equal variances not assumed | ,30148                                    |
| Price or rent                                       | Equal variances assumed     | ,45178                                    |
|   | Equal variances not assumed | ,46929                                    |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,27609                                    |
|   | Equal variances not assumed | ,26951                                    |
| Professional interaction at workspace               | Equal variances assumed     | ,36981                                    |
|   | Equal variances not assumed | ,35671                                    |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,07218                                    |
|   | Equal variances not assumed | ,06511                                    |

#### Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|---|------|------------------------------|---------|
|   |                             | F                                       | Sig. | t                            | df      |
| Advantages from social and professional interaction | Equal variances assumed     | 1,531                                   | ,218 | -1,509                       | 159     |
|   | Equal variances not assumed |   |      | -1,557                       | 132,994 |
| Increased amount of work                            | Equal variances assumed     | 2,293                                   | ,132 | -1,090                       | 156     |
|   | Equal variances not assumed |   |      | -1,130                       | 132,521 |
| More collaborations projects                        | Equal variances assumed     | 4,043                                   | ,046 | ,237                         | 157     |
|   | Equal variances not assumed |   |      | ,245                         | 135,294 |
| Cost advantages                                     | Equal variances assumed     | ,012                                    | ,913 | 1,848                        | 162     |
|   | Equal variances not assumed |   |      | 1,837                        | 118,188 |
| Personal_advantages                                 | Equal variances assumed     | ,335                                    | ,564 | -,576                        | 164     |
|   | Equal variances not assumed |   |      | -,570                        | 113,273 |

#### Independent Samples Test

|   |                             | t-test for Equality of Means |                 |                       |   |
|---|-----------------------------|------------------------------|-----------------|-----------------------|---|
|   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|   |                             |                              |                 |                       | Lower                                     |
| Advantages from social and professional interaction | Equal variances assumed     | ,133                         | -,24177         | ,16022                | -,55822                                   |
|   | Equal variances not assumed | ,122                         | -,24177         | ,15528                | -,54891                                   |
| Increased amount of work                            | Equal variances assumed     | ,277                         | -,15586         | ,14295                | -,43823                                   |
|   | Equal variances not assumed | ,260                         | -,15586         | ,13790                | -,42862                                   |
| More collaborations projects                        | Equal variances assumed     | ,813                         | ,04186          | ,17685                | -,30745                                   |
|   | Equal variances not assumed | ,807                         | ,04186          | ,17068                | -,29569                                   |

|                     |                             |      |         |        |         |
|---------------------|-----------------------------|------|---------|--------|---------|
| Cost advantages     | Equal variances assumed     | ,066 | ,35529  | ,19225 | -,02435 |
|                     | Equal variances not assumed | ,069 | ,35529  | ,19340 | -,02769 |
| Personal_advantages | Equal variances assumed     | ,565 | -,05587 | ,09698 | -,24736 |
|                     | Equal variances not assumed | ,570 | -,05587 | ,09800 | -,25003 |

**Independent Samples Test**

|   |                             | t-test for<br>Equality of<br>Means                 |
|---|-----------------------------|--|
|   |                             | 95%<br>Confidence<br>Interval of the<br>Difference |
|   |                             | Upper  |
| Advantages from social and professional interaction | Equal variances assumed     | ,07467   |
|   | Equal variances not assumed | ,06536   |
| Increased amount of work                            | Equal variances assumed     | ,12651   |
|   | Equal variances not assumed | ,11690   |
| More collaborations projects                        | Equal variances assumed     | ,39118   |
|   | Equal variances not assumed | ,37942   |
| Cost advantages                                     | Equal variances assumed     | ,73493   |
|   | Equal variances not assumed | ,73827   |
| Personal_advantages                                 | Equal variances assumed     | ,13561   |
|   | Equal variances not assumed | ,13828   |

**T-Test**

**Group Statistics**

|   | coworking space or hub (eg. Spaces, Thinkinhut, Impact Hub) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---|---|-----|--------|----------------|-----------------|
| Cluster advantages                                  | No  | 143 | 3,6410 | ,82610         | ,06908          |
|   | Co-woring space/hub worker                                  | 2   | 3,5000 | ,70711         | ,50000          |
| Policy, subsidy or tax advantages                   | No  | 130 | 3,5615 | 1,22635        | ,10756          |
|   | Co-woring space/hub worker                                  | 2   | 4,0000 | 1,41421        | 1,00000         |
| Accessibility                                       | No  | 162 | 3,8025 | ,94468         | ,07422          |
|   | Co-woring space/hub worker                                  | 2   | 5,0000 | ,00000         | ,00000          |
| Cost minimization                                   | No  | 147 | 3,5102 | 1,08140        | ,08919          |
|   | Co-woring space/hub worker                                  | 2   | 4,0000 | 1,41421        | 1,00000         |
| Presence of personal/social/family contacts         | No  | 163 | 4,1472 | ,92452         | ,07241          |
|   | Co-woring space/hub worker                                  | 2   | 5,0000 | ,00000         | ,00000          |
| Urban atmosphere and cultural facilities            | No  | 160 | 4,1406 | ,74642         | ,05901          |
|   | Co-woring space/hub worker                                  | 2   | 3,5000 | ,70711         | ,50000          |
| Tolerance   | No  | 160 | 3,9375 | ,94295         | ,07455          |
|   | Co-woring space/hub worker                                  | 2   | 2,5000 | ,70711         | ,50000          |
| Price or rent                                       | No  | 154 | 3,8766 | ,93814         | ,07560          |
|   | Co-woring space/hub worker                                  | 2   | 4,0000 | ,00000         | ,00000          |
| Flexibility of workspace and the presence of others | No  | 123 | 3,5264 | ,86295         | ,07781          |
|   | Co-woring space/hub worker                                  | 2   | 3,3750 | ,53033         | ,37500          |
| Professional interaction at workspace               | No  | 145 | 3,5414 | 1,04000        | ,08637          |
|   | Co-woring space/hub worker                                  | 2   | 4,0000 | 1,41421        | 1,00000         |
| Sphere at/surroundings of workspace                 | No  | 149 | 3,7942 | ,75595         | ,06193          |
|   | Co-woring space/hub worker                                  | 2   | 4,3333 | ,94281         | ,66667          |
| Advantages from social and professional interaction | No  | 159 | 3,6164 | ,98917         | ,07845          |
|   | Co-woring space/hub worker                                  | 2   | 3,7500 | ,35355         | ,25000          |
| Increased amount of work                            | No  | 156 | 3,4263 | ,87031         | ,06968          |
|   | Co-woring space/hub worker                                  | 2   | 3,5000 | ,70711         | ,50000          |
| More collaborations projects                        | No  | 157 | 3,3121 | 1,07925        | ,08613          |
|   | Co-woring space/hub worker                                  | 2   | 3,5000 | ,70711         | ,50000          |
| Cost advantages                                     | No  | 162 | 3,4753 | 1,19107        | ,09358          |

**Group Statistics**

|                     | coworking space or hub (eg. Spaces, Thinkinhut, Impact Hub) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---------------------|---|-----|--------|----------------|-----------------|
| Cost advantages     | Co-woring space/hub worker                                  | 2   | 4,0000 | 1,41421        | 1,00000         |
| Personal_advantages | No  | 164 | 4,0854 | ,59808         | ,04670          |
|                     | Co-woring space/hub worker                                  | 2   | 4,0000 | ,00000         | ,00000          |

**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|---|------|------------------------------|---------|
|   |                             | F                                       | Sig. | t                            | df      |
| Cluster advantages                                  | Equal variances assumed     | ,287                                    | ,593 | ,240                         | 143     |
|   | Equal variances not assumed |   |      | ,279                         | 1,039   |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | ,161                                    | ,689 | -,501                        | 130     |
|   | Equal variances not assumed |   |      | -,436                        | 1,023   |
| Accessibility                                       | Equal variances assumed     | 4,131                                   | ,044 | -1,787                       | 162     |
|   | Equal variances not assumed |   |      | -16,135                      | 161,000 |
| Cost minimization                                   | Equal variances assumed     | ,015                                    | ,903 | -,635                        | 147     |
|   | Equal variances not assumed |   |      | -,488                        | 1,016   |
| Presence of personal/social/family contacts         | Equal variances assumed     | 3,977                                   | ,048 | -1,301                       | 163     |
|   | Equal variances not assumed |   |      | -11,776                      | 162,000 |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,220                                    | ,639 | 1,207                        | 160     |
|   | Equal variances not assumed |   |      | 1,272                        | 1,028   |
| Tolerance   | Equal variances assumed     | ,377                                    | ,540 | 2,146                        | 160     |
|   | Equal variances not assumed |   |      | 2,844                        | 1,045   |
| Price or rent                                       | Equal variances assumed     | 3,339                                   | ,070 | -,185                        | 154     |
|   | Equal variances not assumed |   |      | -1,632                       | 153,000 |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,971                                    | ,326 | ,247                         | 123     |
|   | Equal variances not assumed |   |      | ,395                         | 1,088   |
| Professional interaction at workspace               | Equal variances assumed     | ,075                                    | ,785 | -,618                        | 145     |
|   | Equal variances not assumed |   |      | -,457                        | 1,015   |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,017                                    | ,896 | -1,000                       | 149     |
|   | Equal variances not assumed |   |      | -,805                        | 1,017   |

**Independent Samples Test**

|                                   |                             | t-test for Equality of Means |                 |                       |   |
|-----------------------------------|-----------------------------|------------------------------|-----------------|-----------------------|---|
|                                   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|                                   |                             |                              |                 |                       | Lower                                     |
| Cluster advantages                | Equal variances assumed     | ,811                         | ,14103          | ,58766                | -1,02060                                  |
|                                   | Equal variances not assumed | ,825                         | ,14103          | ,50475                | -5,73646                                  |
| Policy, subsidy or tax advantages | Equal variances assumed     | ,617                         | -,43846         | ,87491                | -2,16937                                  |

|   |                             |      |          |         |           |
|---|-----------------------------|------|----------|---------|-----------|
|   | Equal variances not assumed | ,737 | -,43846  | 1,00577 | -12,55124 |
| Accessibility                                       | Equal variances assumed     | ,076 | -1,19753 | ,67002  | -2,52063  |
|   | Equal variances not assumed | ,000 | -1,19753 | ,07422  | -1,34410  |
| Cost minimization                                   | Equal variances assumed     | ,527 | -,48980  | ,77170  | -2,01486  |
|   | Equal variances not assumed | ,710 | -,48980  | 1,00397 | -12,78212 |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,195 | -,85276  | ,65571  | -2,14754  |
|   | Equal variances not assumed | ,000 | -,85276  | ,07241  | -,99576   |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,229 | ,64063   | ,53092  | -,40788   |
|   | Equal variances not assumed | ,420 | ,64063   | ,50347  | -5,35849  |
| Tolerance   | Equal variances assumed     | ,033 | 1,43750  | ,67000  | ,11431    |
|   | Equal variances not assumed | ,207 | 1,43750  | ,50553  | -4,36832  |
| Price or rent                                       | Equal variances assumed     | ,853 | -,12338  | ,66549  | -1,43804  |
|   | Equal variances not assumed | ,105 | -,12338  | ,07560  | -,27273   |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,805 | ,15142   | ,61358  | -1,06312  |
|   | Equal variances not assumed | ,756 | ,15142   | ,38299  | -3,87703  |
| Professional interaction at workspace               | Equal variances assumed     | ,538 | -,45862  | ,74261  | -1,92637  |
|   | Equal variances not assumed | ,726 | -,45862  | 1,00372 | -12,77598 |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,319 | -,53915  | ,53912  | -1,60445  |
|   | Equal variances not assumed | ,567 | -,53915  | ,66954  | -8,71143  |

#### Independent Samples Test

|   |                             | t-test for Equality of Means              |
|---|-----------------------------|---|
|   |                             | 95% Confidence Interval of the Difference |
|   |                             | Upper                                     |
| Cluster advantages                                  | Equal variances assumed     | 1,30265                                   |
|   | Equal variances not assumed | 6,01851                                   |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | 1,29245                                   |
|   | Equal variances not assumed | 11,67431                                  |
| Accessibility                                       | Equal variances assumed     | ,12557                                    |
|   | Equal variances not assumed | -1,05096                                  |
| Cost minimization                                   | Equal variances assumed     | 1,03527                                   |
|   | Equal variances not assumed | 11,80253                                  |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,44202                                    |
|   | Equal variances not assumed | -,70976                                   |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | 1,68913                                   |
|   | Equal variances not assumed | 6,63974                                   |
| Tolerance   | Equal variances assumed     | 2,76069                                   |
|   | Equal variances not assumed | 7,24332                                   |
| Price or rent                                       | Equal variances assumed     | 1,19128                                   |
|   | Equal variances not assumed | ,02597                                    |
| Flexibility of workspace and the presence of others | Equal variances assumed     | 1,36597                                   |
|   | Equal variances not assumed | 4,17988                                   |
| Professional interaction at workspace               | Equal variances assumed     | 1,00912                                   |
|   | Equal variances not assumed | 11,85874                                  |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,52615                                    |
|   | Equal variances not assumed | 7,63313                                   |

#### Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|---|------|------------------------------|---------|
|   |                             | F                                       | Sig. | t                            | df      |
| Advantages from social and professional interaction | Equal variances assumed     | 2,426                                   | ,121 | -,190                        | 159     |
|   | Equal variances not assumed |   |      | -,510                        | 1,207   |
| Increased amount of work                            | Equal variances assumed     | ,415                                    | ,520 | -,119                        | 156     |
|   | Equal variances not assumed |   |      | -,146                        | 1,039   |
| More collaborations projects                        | Equal variances assumed     | 1,241                                   | ,267 | -,245                        | 157     |
|   | Equal variances not assumed |   |      | -,370                        | 1,060   |
| Cost advantages                                     | Equal variances assumed     | ,048                                    | ,827 | -,618                        | 162     |
|   | Equal variances not assumed |   |      | -,522                        | 1,018   |
| Personal_advantages                                 | Equal variances assumed     | 3,135                                   | ,078 | ,201                         | 164     |
|   | Equal variances not assumed |   |      | 1,828                        | 163,000 |

**Independent Samples Test**

|   |                             | t-test for Equality of Means |                 |                       |   |
|---|-----------------------------|------------------------------|-----------------|-----------------------|---|
|   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|   |                             |                              |                 |                       | Lower                                     |
| Advantages from social and professional interaction | Equal variances assumed     | ,849                         | -,13365         | ,70190                | -1,51990                                  |
|   | Equal variances not assumed | ,688                         | -,13365         | ,26202                | -2,37691                                  |
| Increased amount of work                            | Equal variances assumed     | ,905                         | -,07372         | ,61866                | -1,29574                                  |
|   | Equal variances not assumed | ,907                         | -,07372         | ,50483                | -5,94354                                  |
| More collaborations projects                        | Equal variances assumed     | ,807                         | -,18790         | ,76660                | -1,70207                                  |
|   | Equal variances not assumed | ,771                         | -,18790         | ,50736                | -5,83044                                  |
| Cost advantages                                     | Equal variances assumed     | ,537                         | -,52469         | ,84847                | -2,20017                                  |
|   | Equal variances not assumed | ,692                         | -,52469         | 1,00437               | -12,77673                                 |
| Personal_advantages                                 | Equal variances assumed     | ,841                         | ,08537          | ,42418                | -,75219                                   |
|   | Equal variances not assumed | ,069                         | ,08537          | ,04670                | -,00685                                   |

**Independent Samples Test**

|   |                             | t-test for Equality of Means              |
|---|-----------------------------|---|
|   |                             | 95% Confidence Interval of the Difference |
|   |                             | Upper                                     |
| Advantages from social and professional interaction | Equal variances assumed     | 1,25261                                   |
|   | Equal variances not assumed | 2,10961                                   |
| Increased amount of work                            | Equal variances assumed     | 1,14831                                   |
|   | Equal variances not assumed | 5,79610                                   |
| More collaborations projects                        | Equal variances assumed     | 1,32627                                   |
|   | Equal variances not assumed | 5,45465                                   |
| Cost advantages                                     | Equal variances assumed     | 1,15079                                   |
|   | Equal variances not assumed | 11,72735                                  |
| Personal_advantages                                 | Equal variances assumed     | ,92292                                    |
|   | Equal variances not assumed | ,17759                                    |

**T-Test**

**Group Statistics**

|                     | flexible workplaces (eg. at a company with extra room) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---------------------|--|-----|--------|----------------|-----------------|
| Personal_advantages | No   | 161 | 4,1009 | ,58987         | ,04649          |
|                     | Flexible workspace worker                              | 5   | 3,5500 | ,54199         | ,24238          |

**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |       |                 |
|---|-----------------------------|---|------|------------------------------|-------|-----------------|
|   |                             | F                                       | Sig. | t                            | df    | Sig. (2-tailed) |
| Cluster advantages                                  | Equal variances assumed     | 1,470                                   | ,227 | -1,371                       | 143   | ,172            |
|   | Equal variances not assumed |   |      | -1,831                       | 4,548 | ,132            |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | ,183                                    | ,670 | -,430                        | 130   | ,668            |
|   | Equal variances not assumed |   |      | -,406                        | 4,283 | ,704            |
| Accessibility                                       | Equal variances assumed     | ,213                                    | ,645 | ,999                         | 162   | ,319            |
|   | Equal variances not assumed |   |      | ,835                         | 4,174 | ,449            |
| Cost minimization                                   | Equal variances assumed     | 1,949                                   | ,165 | -1,442                       | 147   | ,152            |
|   | Equal variances not assumed |   |      | -1,837                       | 4,479 | ,132            |
| Presence of personal/social/family contacts         | Equal variances assumed     | 1,366                                   | ,244 | -1,088                       | 163   | ,278            |
|   | Equal variances not assumed |   |      | -1,784                       | 4,753 | ,138            |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,023                                    | ,879 | -1,117                       | 160   | ,266            |
|   | Equal variances not assumed |   |      | -1,178                       | 4,290 | ,300            |
| Tolerance   | Equal variances assumed     | 1,239                                   | ,267 | ,285                         | 160   | ,776            |
|   | Equal variances not assumed |   |      | ,210                         | 4,135 | ,843            |
| Price or rent                                       | Equal variances assumed     | ,002                                    | ,969 | 1,167                        | 154   | ,245            |
|   | Equal variances not assumed |   |      | 1,213                        | 4,293 | ,287            |
| Flexibility of workspace and the presence of others | Equal variances assumed     | 2,580                                   | ,111 | -1,431                       | 123   | ,155            |
|   | Equal variances not assumed |   |      | -2,697                       | 3,835 | ,057            |
| Professional interaction at workspace               | Equal variances assumed     | 1,179                                   | ,279 | -1,654                       | 145   | ,100            |
|   | Equal variances not assumed |   |      | -2,027                       | 4,447 | ,105            |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,395                                    | ,531 | -2,018                       | 149   | ,045            |
|   | Equal variances not assumed |   |      | -2,476                       | 4,435 | ,062            |

**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |       |                 |
|---|-----------------------------|---|------|------------------------------|-------|-----------------|
|   |                             | F                                       | Sig. | t                            | df    | Sig. (2-tailed) |
| Advantages from social and professional interaction | Equal variances assumed     | ,626                                    | ,430 | -,419                        | 159   | ,676            |
|   | Equal variances not assumed |   |      | -,454                        | 4,309 | ,672            |
| Increased amount of work                            | Equal variances assumed     | ,587                                    | ,445 | -,452                        | 156   | ,652            |
|   | Equal variances not assumed |   |      | -,347                        | 4,150 | ,746            |
| More collaborations projects                        | Equal variances assumed     | 1,341                                   | ,249 | -1,027                       | 157   | ,306            |
|   | Equal variances not assumed |   |      | -1,305                       | 4,444 | ,255            |
| Cost advantages                                     | Equal variances assumed     | ,851                                    | ,358 | ,155                         | 162   | ,877            |
|   | Equal variances not assumed |   |      | ,123                         | 4,155 | ,908            |
| Personal_advantages                                 | Equal variances assumed     | ,021                                    | ,884 | 2,061                        | 164   | ,041            |
|   | Equal variances not assumed |   |      | 2,232                        | 4,300 | ,085            |

**T-Test**

**Group Statistics**

|   | creative business complex (eg. Alab, Beehive) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---|---|-----|--------|----------------|-----------------|
| Cluster advantages                          | No  | 127 | 3,6142 | ,81588         | ,07240          |
|   | Creative business complex worker              | 18  | 3,8148 | ,87240         | ,20563          |
| Policy, subsidy or tax advantages           | No  | 116 | 3,5776 | 1,25213        | ,11626          |
|   | Creative business complex worker              | 16  | 3,5000 | 1,03280        | ,25820          |
| Accessibility                               | No  | 145 | 3,8276 | ,95992         | ,07972          |
|   | Creative business complex worker              | 19  | 3,7368 | ,87191         | ,20003          |
| Cost minimization                           | No  | 131 | 3,5878 | 1,05881        | ,09251          |
|   | Creative business complex worker              | 18  | 3,0000 | 1,13759        | ,26813          |
| Presence of personal/social/family contacts | No  | 147 | 4,1565 | ,89673         | ,07396          |
|   | Creative business complex worker              | 18  | 4,1667 | 1,15045        | ,27116          |
| Urban atmosphere and cultural facilities    | No  | 144 | 4,1042 | ,74062         | ,06172          |
|   | Creative business complex worker              | 18  | 4,3611 | ,78226         | ,18438          |
| Tolerance                                   | No  | 145 | 3,8966 | ,95542         | ,07934          |
|   | Creative business complex worker              | 17  | 4,1176 | ,92752         | ,22496          |

|   |                                  |     |        |         |        |
|---|----------------------------------|-----|--------|---------|--------|
| Price or rent                                       | No                               | 137 | 3,8613 | ,94855  | ,08104 |
|   | Creative business complex worker | 19  | 4,0000 | ,81650  | ,18732 |
| Flexibility of workspace and the presence of others | No                               | 107 | 3,4977 | ,88121  | ,08519 |
|   | Creative business complex worker | 18  | 3,6806 | ,70087  | ,16520 |
| Professional interaction at workspace               | No                               | 129 | 3,5078 | 1,04205 | ,09175 |
|   | Creative business complex worker | 18  | 3,8333 | 1,01460 | ,23914 |
| Sphere at/surroundings of workspace                 | No                               | 133 | 3,7920 | ,77482  | ,06719 |
|   | Creative business complex worker | 18  | 3,8704 | ,62767  | ,14794 |
| Advantages from social and professional interaction | No                               | 143 | 3,5874 | 1,00582 | ,08411 |
|   | Creative business complex worker | 18  | 3,8611 | ,76323  | ,17989 |
| Increased amount of work                            | No                               | 139 | 3,3993 | ,84523  | ,07169 |
|   | Creative business complex worker | 19  | 3,6316 | 1,01163 | ,23208 |
| More collaborations projects                        | No                               | 141 | 3,2837 | 1,08448 | ,09133 |
|   | Creative business complex worker | 18  | 3,5556 | ,98352  | ,23182 |
| Cost advantages                                     | No                               | 145 | 3,4759 | 1,20233 | ,09985 |
|   | Creative business complex worker | 19  | 3,5263 | 1,12390 | ,25784 |

#### Group Statistics

|                     | creative business complex (eg. Alab, Beehive) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---------------------|---|-----|--------|----------------|-----------------|
| Personal_advantages | No  | 147 | 4,0867 | ,61770         | ,05095          |
|                     | Creative business complex worker              | 19  | 4,0658 | ,38044         | ,08728          |

#### Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |
|---|-----------------------------|---|------|------------------------------|--------|-----------------|
|   |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) |
| Cluster advantages                                  | Equal variances assumed     | ,001                                    | ,980 | -,968                        | 143    | ,335            |
|   | Equal variances not assumed |   |      | -,920                        | 21,432 | ,368            |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | 5,731                                   | ,018 | ,237                         | 130    | ,813            |
|   | Equal variances not assumed |   |      | ,274                         | 21,583 | ,787            |
| Accessibility                                       | Equal variances assumed     | ,735                                    | ,393 | ,391                         | 162    | ,696            |
|   | Equal variances not assumed |   |      | ,421                         | 24,096 | ,677            |
| Cost minimization                                   | Equal variances assumed     | ,159                                    | ,690 | 2,189                        | 147    | ,030            |
|   | Equal variances not assumed |   |      | 2,072                        | 21,249 | ,051            |
| Presence of personal/social/family contacts         | Equal variances assumed     | 2,121                                   | ,147 | -,044                        | 163    | ,965            |
|   | Equal variances not assumed |   |      | -,036                        | 19,611 | ,971            |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,295                                    | ,588 | -1,379                       | 160    | ,170            |
|   | Equal variances not assumed |   |      | -1,321                       | 20,992 | ,201            |
| Tolerance   | Equal variances assumed     | ,105                                    | ,746 | -,905                        | 160    | ,367            |
|   | Equal variances not assumed |   |      | -,927                        | 20,194 | ,365            |
| Price or rent                                       | Equal variances assumed     | 2,725                                   | ,101 | -,606                        | 154    | ,545            |
|   | Equal variances not assumed |   |      | -,680                        | 25,252 | ,503            |
| Flexibility of workspace and the presence of others | Equal variances assumed     | 2,425                                   | ,122 | -,836                        | 123    | ,405            |
|   | Equal variances not assumed |   |      | -,984                        | 26,938 | ,334            |
| Professional interaction at workspace               | Equal variances assumed     | ,417                                    | ,520 | -1,246                       | 145    | ,215            |
|   | Equal variances not assumed |   |      | -1,271                       | 22,309 | ,217            |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | 1,477                                   | ,226 | -,411                        | 149    | ,682            |
|   | Equal variances not assumed |   |      | -,482                        | 24,600 | ,634            |

#### Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |
|---|-----------------------------|---|------|------------------------------|--------|-----------------|
|   |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) |
| Advantages from social and professional interaction | Equal variances assumed     | 4,872                                   | ,029 | -1,114                       | 159    | ,267            |
|   | Equal variances not assumed |   |      | -1,378                       | 25,102 | ,180            |
| Increased amount of work                            | Equal variances assumed     | 2,373                                   | ,125 | -1,097                       | 156    | ,275            |
|   | Equal variances not assumed |   |      | -,956                        | 21,573 | ,349            |
| More collaborations projects                        | Equal variances assumed     | ,505                                    | ,478 | -1,011                       | 157    | ,313            |
|   | Equal variances not assumed |   |      | -1,091                       | 22,621 | ,287            |
| Cost advantages                                     | Equal variances assumed     | ,900                                    | ,344 | -,173                        | 162    | ,863            |
|   | Equal variances not assumed |   |      | -,182                        | 23,737 | ,857            |
| Personal_advantages                                 | Equal variances assumed     | 6,057                                   | ,015 | ,144                         | 164    | ,886            |
|   | Equal variances not assumed |   |      | ,207                         | 31,899 | ,837            |

#### T-Test

**Group Statistics**

|   | broedplaats/studio/workspace<br>(eg. NDSM) | N   | Mean   | Std. Deviation | Std. Error<br>Mean |
|---|--|-----|--------|----------------|--------------------|
| Cluster advantages                                  | No   | 125 | 3,6267 | ,80054         | ,07160             |
|   | Worker at<br>broedplaats/studio/workspace  | 20  | 3,7167 | ,96896         | ,21667             |
| Policy, subsidy or tax advantages                   | No   | 112 | 3,5804 | 1,23492        | ,11669             |
|   | Worker at<br>broedplaats/studio/workspace  | 20  | 3,5000 | 1,19208        | ,26656             |
| Accessibility                                       | No   | 141 | 3,7943 | ,93746         | ,07895             |
|   | Worker at<br>broedplaats/studio/workspace  | 23  | 3,9565 | 1,02151        | ,21300             |
| Cost minimization                                   | No   | 128 | 3,5000 | 1,06483        | ,09412             |
|   | Worker at<br>broedplaats/studio/workspace  | 21  | 3,6190 | 1,20317        | ,26255             |
| Presence of personal/social/family contacts         | No   | 141 | 4,1418 | ,94553         | ,07963             |
|   | Worker at<br>broedplaats/studio/workspace  | 24  | 4,2500 | ,79400         | ,16207             |
| Urban atmosphere and cultural facilities            | No   | 139 | 4,1187 | ,73618         | ,06244             |
|   | Worker at<br>broedplaats/studio/workspace  | 23  | 4,2174 | ,82333         | ,17168             |
| Tolerance   | No   | 139 | 3,8993 | ,94251         | ,07994             |
|   | Worker at<br>broedplaats/studio/workspace  | 23  | 4,0435 | 1,02151        | ,21300             |
| Price or rent                                       | No   | 132 | 3,8409 | ,93146         | ,08107             |
|   | Worker at<br>broedplaats/studio/workspace  | 24  | 4,0833 | ,92861         | ,18955             |
| Flexibility of workspace and the presence of others | No   | 104 | 3,4928 | ,85861         | ,08419             |
|   | Worker at<br>broedplaats/studio/workspace  | 21  | 3,6786 | ,85565         | ,18672             |
| Professional interaction at workspace               | No   | 125 | 3,4840 | 1,04329        | ,09331             |
|   | Worker at<br>broedplaats/studio/workspace  | 22  | 3,9091 | ,97145         | ,20711             |
| Sphere at/surroundings of workspace                 | No   | 129 | 3,7494 | ,77284         | ,06804             |
|   | Worker at<br>broedplaats/studio/workspace  | 22  | 4,1061 | ,58542         | ,12481             |
| Advantages from social and professional interaction | No   | 136 | 3,5882 | ,99607         | ,08541             |
|   | Worker at<br>broedplaats/studio/workspace  | 25  | 3,7800 | ,91378         | ,18276             |

**Group Statistics**

|                              | broedplaats/studio/workspace<br>(eg. NDSM) | N   | Mean   | Std. Deviation | Std. Error<br>Mean |
|------------------------------|--|-----|--------|----------------|--------------------|
| Increased amount of work     | No   | 135 | 3,4037 | ,86709         | ,07463             |
|                              | Worker at<br>broedplaats/studio/workspace  | 23  | 3,5652 | ,87001         | ,18141             |
| More collaborations projects | No   | 135 | 3,3185 | 1,08347        | ,09325             |
|                              | Worker at<br>broedplaats/studio/workspace  | 24  | 3,2917 | 1,04170        | ,21264             |
| Cost advantages              | No   | 139 | 3,4532 | 1,18703        | ,10068             |
|                              | Worker at<br>broedplaats/studio/workspace  | 25  | 3,6400 | 1,22066        | ,24413             |
| Personal_advantages          | No   | 142 | 4,0669 | ,58340         | ,04896             |
|                              | Worker at<br>broedplaats/studio/workspace  | 24  | 4,1875 | ,66041         | ,13481             |



**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |
|---|-----------------------------|---|------|------------------------------|--------|-----------------|
|   |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) |
| Cluster advantages                                  | Equal variances assumed     | 1,863                                   | ,174 | -,453                        | 143    | ,651            |
|   | Equal variances not assumed |   |      | -,394                        | 23,334 | ,697            |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | ,736                                    | ,393 | ,269                         | 130    | ,788            |
|   | Equal variances not assumed |   |      | ,276                         | 26,811 | ,785            |
| Accessibility                                       | Equal variances assumed     | ,012                                    | ,914 | -,760                        | 162    | ,448            |
|   | Equal variances not assumed |   |      | -,714                        | 28,376 | ,481            |
| Cost minimization                                   | Equal variances assumed     | 1,192                                   | ,277 | -,466                        | 147    | ,642            |
|   | Equal variances not assumed |   |      | -,427                        | 25,404 | ,673            |
| Presence of personal/social/family contacts         | Equal variances assumed     | 1,774                                   | ,185 | -,529                        | 163    | ,597            |
|   | Equal variances not assumed |   |      | -,599                        | 35,107 | ,553            |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,968                                    | ,327 | -,585                        | 160    | ,559            |
|   | Equal variances not assumed |   |      | -,540                        | 28,128 | ,593            |
| Tolerance   | Equal variances assumed     | ,370                                    | ,544 | -,672                        | 160    | ,503            |
|   | Equal variances not assumed |   |      | -,634                        | 28,544 | ,531            |
| Price or rent                                       | Equal variances assumed     | ,056                                    | ,813 | -1,173                       | 154    | ,242            |
|   | Equal variances not assumed |   |      | -1,176                       | 31,997 | ,248            |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,023                                    | ,880 | -,905                        | 123    | ,367            |
|   | Equal variances not assumed |   |      | -,907                        | 28,729 | ,372            |
| Professional interaction at workspace               | Equal variances assumed     | ,926                                    | ,338 | -1,780                       | 145    | ,077            |
|   | Equal variances not assumed |   |      | -1,871                       | 30,180 | ,071            |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | 3,605                                   | ,060 | -2,064                       | 149    | ,041            |
|   | Equal variances not assumed |   |      | -2,509                       | 34,834 | ,017            |

**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |
|---|-----------------------------|---|------|------------------------------|--------|-----------------|
|   |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) |
| Advantages from social and professional interaction | Equal variances assumed     | 1,360                                   | ,245 | -,895                        | 159    | ,372            |
|   | Equal variances not assumed |   |      | -,951                        | 35,330 | ,348            |
| Increased amount of work                            | Equal variances assumed     | ,006                                    | ,940 | -,825                        | 156    | ,410            |
|   | Equal variances not assumed |   |      | -,823                        | 29,935 | ,417            |
| More collaborations projects                        | Equal variances assumed     | ,344                                    | ,559 | ,112                         | 157    | ,911            |
|   | Equal variances not assumed |   |      | ,116                         | 32,491 | ,909            |
| Cost advantages                                     | Equal variances assumed     | ,050                                    | ,823 | -,721                        | 162    | ,472            |
|   | Equal variances not assumed |   |      | -,707                        | 32,694 | ,484            |
| Personal_advantages                                 | Equal variances assumed     | ,843                                    | ,360 | -,919                        | 164    | ,360            |
|   | Equal variances not assumed |   |      | -,841                        | 29,384 | ,407            |

**T-Test**

**Group Statistics**

|   | anti-squatting or temporary location (eg. Lola Loud) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---|--|-----|--------|----------------|-----------------|
| Cluster advantages                                  | No   | 140 | 3,6214 | ,81572         | ,06894          |
|   | Worker at temporary workspace                        | 5   | 4,1333 | ,96032         | ,42947          |
| Policy, subsidy or tax advantages                   | No   | 127 | 3,5433 | 1,21991        | ,10825          |
|   | Worker at temporary workspace                        | 5   | 4,2000 | 1,30384        | ,58310          |
| Accessibility                                       | No   | 158 | 3,8228 | ,94780         | ,07540          |
|   | Worker at temporary workspace                        | 6   | 3,6667 | 1,03280        | ,42164          |
| Cost minimization                                   | No   | 143 | 3,5035 | 1,06727        | ,08925          |
|   | Worker at temporary workspace                        | 6   | 3,8333 | 1,47196        | ,60093          |
| Presence of personal/social/family contacts         | No   | 159 | 4,1447 | ,92666         | ,07349          |
|   | Worker at temporary workspace                        | 6   | 4,5000 | ,83666         | ,34157          |
| Urban atmosphere and cultural facilities            | No   | 156 | 4,1314 | ,75158         | ,06017          |
|   | Worker at temporary workspace                        | 6   | 4,1667 | ,68313         | ,27889          |
| Tolerance   | No   | 156 | 3,9103 | ,94611         | ,07575          |
|   | Worker at temporary workspace                        | 6   | 4,1667 | 1,16905        | ,47726          |
| Price or rent                                       | No   | 151 | 3,8609 | ,93837         | ,07636          |
|   | Worker at temporary workspace                        | 5   | 4,4000 | ,54772         | ,24495          |
| Flexibility of workspace and the presence of others | No   | 120 | 3,5167 | ,84809         | ,07742          |
|   | Worker at temporary workspace                        | 5   | 3,7000 | 1,16458        | ,52082          |
| Professional interaction at workspace               | No   | 141 | 3,5461 | 1,03493        | ,08716          |
|   | Worker at temporary workspace                        | 6   | 3,5833 | 1,28128        | ,52308          |
| Sphere at/surroundings of workspace                 | No   | 145 | 3,8184 | ,75049         | ,06233          |
|   | Worker at temporary workspace                        | 6   | 3,3889 | ,87981         | ,35918          |
| Advantages from social and professional interaction | No   | 155 | 3,5935 | ,98163         | ,07885          |
|   | Worker at temporary workspace                        | 6   | 4,2500 | ,88034         | ,35940          |
| Increased amount of work                            | No   | 152 | 3,3980 | ,85223         | ,06912          |
|   | Worker at temporary workspace                        | 6   | 4,1667 | ,98319         | ,40139          |
| More collaborations projects                        | No   | 153 | 3,3072 | 1,08386        | ,08762          |
|   | Worker at temporary workspace                        | 6   | 3,5000 | ,83666         | ,34157          |
| Cost advantages                                     | No   | 158 | 3,4557 | 1,19231        | ,09485          |
|   | Worker at temporary workspace                        | 6   | 4,1667 | ,98319         | ,40139          |

**Group Statistics**

|                     | anti-squatting or temporary location (eg. Lola Loud) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---------------------|--|-----|--------|----------------|-----------------|
| Personal_advantages | No   | 160 | 4,0922 | ,58252         | ,04605          |
|                     | Worker at temporary workspace                        | 6   | 3,8750 | ,90485         | ,36940          |

**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |       |                 |
|---|-----------------------------|---|------|------------------------------|-------|-----------------|
|   |                             | F                                       | Sig. | t                            | df    | Sig. (2-tailed) |
| Cluster advantages                                  | Equal variances assumed     | ,011                                    | ,917 | -1,371                       | 143   | ,172            |
|   | Equal variances not assumed |   |      | -1,177                       | 4,209 | ,301            |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | ,542                                    | ,463 | -1,178                       | 130   | ,241            |
|   | Equal variances not assumed |   |      | -1,107                       | 4,280 | ,326            |
| Accessibility                                       | Equal variances assumed     | ,000                                    | ,991 | ,395                         | 162   | ,693            |
|   | Equal variances not assumed |   |      | ,364                         | 5,325 | ,730            |
| Cost minimization                                   | Equal variances assumed     | 1,810                                   | ,181 | -,730                        | 147   | ,466            |
|   | Equal variances not assumed |   |      | -,543                        | 5,223 | ,610            |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,152                                    | ,697 | -,925                        | 163   | ,356            |
|   | Equal variances not assumed |   |      | -1,017                       | 5,473 | ,352            |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,223                                    | ,638 | -,113                        | 160   | ,910            |
|   | Equal variances not assumed |   |      | -,124                        | 5,476 | ,906            |
| Tolerance   | Equal variances assumed     | ,093                                    | ,761 | -,646                        | 160   | ,519            |
|   | Equal variances not assumed |   |      | -,531                        | 5,255 | ,617            |
| Price or rent                                       | Equal variances assumed     | 1,097                                   | ,297 | -1,275                       | 154   | ,204            |
|   | Equal variances not assumed |   |      | -2,101                       | 4,814 | ,092            |
| Flexibility of workspace and the presence of others | Equal variances assumed     | 1,230                                   | ,270 | -,467                        | 123   | ,641            |
|   | Equal variances not assumed |   |      | -,348                        | 4,179 | ,745            |
| Professional interaction at                         | Equal variances assumed     | ,780                                    | ,379 | -,086                        | 145   | ,932            |

|                                     |                             |      |      |       |       |      |
|-------------------------------------|-----------------------------|------|------|-------|-------|------|
| workspace                           | Equal variances not assumed |      |      | -,070 | 5,281 | ,947 |
| Sphere at/surroundings of workspace | Equal variances assumed     | ,003 | ,957 | 1,365 | 149   | ,174 |
|                                     | Equal variances not assumed |      |      | 1,178 | 5,305 | ,289 |

**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |       |                 |
|---|-----------------------------|---|------|------------------------------|-------|-----------------|
|   |                             | F                                       | Sig. | t                            | df    | Sig. (2-tailed) |
| Advantages from social and professional interaction | Equal variances assumed     | ,111                                    | ,740 | -1,612                       | 159   | ,109            |
|   | Equal variances not assumed |   |      | -1,784                       | 5,492 | ,129            |
| Increased amount of work                            | Equal variances assumed     | ,423                                    | ,517 | -2,155                       | 156   | ,033            |
|   | Equal variances not assumed |   |      | -1,887                       | 5,301 | ,114            |
| More collaborations projects                        | Equal variances assumed     | 1,441                                   | ,232 | -,430                        | 157   | ,668            |
|   | Equal variances not assumed |   |      | -,547                        | 5,679 | ,605            |
| Cost advantages                                     | Equal variances assumed     | 1,375                                   | ,243 | -1,441                       | 162   | ,152            |
|   | Equal variances not assumed |   |      | -1,724                       | 5,574 | ,139            |
| Personal_advantages                                 | Equal variances assumed     | 2,782                                   | ,097 | ,878                         | 164   | ,381            |
|   | Equal variances not assumed |   |      | ,583                         | 5,157 | ,584            |

T-Test

Group Statistics

|   |   | incubator/startup accelerator (eg. Rockstart) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---|---|---|-----|--------|----------------|-----------------|
| Cluster advantages                                  | No  |   | 143 | 3,6340 | ,82727         | ,06918          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,0000 | ,00000         | ,00000          |
| Policy, subsidy or tax advantages                   | No  |   | 130 | 3,5846 | 1,22496        | ,10744          |
|   | Worker at start-up accelerator or incubator |   | 2   | 2,5000 | ,70711         | ,50000          |
| Accessibility                                       | No  |   | 162 | 3,8333 | ,94079         | ,07392          |
|   | Worker at start-up accelerator or incubator |   | 2   | 2,5000 | ,70711         | ,50000          |
| Cost minimization                                   | No  |   | 147 | 3,5034 | 1,08144        | ,08920          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,5000 | ,70711         | ,50000          |
| Presence of personal/social/family contacts         | No  |   | 163 | 4,1534 | ,92685         | ,07260          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,5000 | ,70711         | ,50000          |
| Urban atmosphere and cultural facilities            | No  |   | 160 | 4,1281 | ,74868         | ,05919          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,5000 | ,70711         | ,50000          |
| Tolerance   | No  |   | 160 | 3,9125 | ,95422         | ,07544          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,5000 | ,70711         | ,50000          |
| Price or rent                                       | No  |   | 154 | 3,8766 | ,93814         | ,07560          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,0000 | ,00000         | ,00000          |
| Flexibility of workspace and the presence of others | No  |   | 123 | 3,5163 | ,86231         | ,07775          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,0000 | ,00000         | ,00000          |
| Professional interaction at workspace               | No  |   | 145 | 3,5414 | 1,04666        | ,08692          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,0000 | ,00000         | ,00000          |
| Sphere at/surroundings of workspace                 | No  |   | 149 | 3,7942 | ,75893         | ,06217          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,3333 | ,47140         | ,33333          |
| Advantages from social and professional interaction | No  |   | 159 | 3,6164 | ,98917         | ,07845          |
|   | Worker at start-up accelerator or incubator |   | 2   | 3,7500 | ,35355         | ,25000          |
| Increased amount of work                            | No  |   | 156 | 3,4263 | ,87031         | ,06968          |
|   | Worker at start-up accelerator or incubator |   | 2   | 3,5000 | ,70711         | ,50000          |
| More collaborations projects                        | No  |   | 157 | 3,3057 | 1,07812        | ,08604          |
|   | Worker at start-up accelerator or incubator |   | 2   | 4,0000 | ,00000         | ,00000          |
| Cost advantages                                     | No  |   | 162 | 3,4877 | 1,19646        | ,09400          |
|   | Worker at start-up accelerator or incubator |   | 2   | 3,0000 | ,00000         | ,00000          |

Group Statistics

|                     |   | incubator/startup accelerator (eg. Rockstart) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---------------------|---|---|-----|--------|----------------|-----------------|
| Personal_advantages | No  |   | 164 | 4,0884 | ,59699         | ,04662          |
|                     | Worker at start-up accelerator or incubator |   | 2   | 3,7500 | ,00000         | ,00000          |

Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|---|------|------------------------------|---------|
|   |                             | F                                       | Sig. | t                            | df      |
| Cluster advantages                                  | Equal variances assumed     | 4,248                                   | ,041 | -,623                        | 143     |
|   | Equal variances not assumed |   |      | -5,290                       | 142,000 |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | 3,871                                   | ,051 | 1,246                        | 130     |
|   | Equal variances not assumed |   |      | 2,121                        | 1,094   |
| Accessibility                                       | Equal variances assumed     | ,462                                    | ,498 | 1,995                        | 162     |
|   | Equal variances not assumed |   |      | 2,638                        | 1,044   |
| Cost minimization                                   | Equal variances assumed     | 1,660                                   | ,200 | -1,297                       | 147     |
|   | Equal variances not assumed |   |      | -1,962                       | 1,065   |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,473                                    | ,493 | -,526                        | 163     |
|   | Equal variances not assumed |   |      | -,686                        | 1,043   |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,217                                    | ,642 | -,698                        | 160     |
|   | Equal variances not assumed |   |      | -,739                        | 1,028   |
| Tolerance   | Equal variances assumed     | ,451                                    | ,503 | -,867                        | 160     |
|   | Equal variances not assumed |   |      | -1,162                       | 1,046   |
| Price or rent                                       | Equal variances assumed     | 3,339                                   | ,070 | -,185                        | 154     |
|   | Equal variances not assumed |   |      | -1,632                       | 153,000 |
| Flexibility of workspace and the presence of others | Equal variances assumed     | 4,233                                   | ,042 | -,790                        | 123     |
|   | Equal variances not assumed |   |      | -6,222                       | 122,000 |
| Professional interaction at                         | Equal variances assumed     | 6,126                                   | ,014 | -,618                        | 145     |

|                                     |                             |      |      |        |         |
|-------------------------------------|-----------------------------|------|------|--------|---------|
| workspace                           | Equal variances not assumed |      |      | -5,276 | 144,000 |
| Sphere at/surroundings of workspace | Equal variances assumed     | ,984 | ,323 | -1,000 | 149     |
|                                     | Equal variances not assumed |      |      | -1,590 | 1,071   |

**Independent Samples Test**

|   |                             | t-test for Equality of Means |                 |                       |   |
|---|-----------------------------|------------------------------|-----------------|-----------------------|---|
|   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|   |                             |                              |                 |                       | Lower                                     |
| Cluster advantages                                  | Equal variances assumed     | ,534                         | -,36597         | ,58698                | -1,52625                                  |
|   | Equal variances not assumed | ,000                         | -,36597         | ,06918                | -,50272                                   |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | ,215                         | 1,08462         | ,87058                | -,63772                                   |
|   | Equal variances not assumed | ,263                         | 1,08462         | ,51141                | -4,22718                                  |
| Accessibility                                       | Equal variances assumed     | ,048                         | 1,33333         | ,66844                | ,01336                                    |
|   | Equal variances not assumed | ,222                         | 1,33333         | ,50543                | -4,48095                                  |
| Cost minimization                                   | Equal variances assumed     | ,197                         | -,99660         | ,76838                | -2,51509                                  |
|   | Equal variances not assumed | ,288                         | -,99660         | ,50789                | -6,59376                                  |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,599                         | -,34663         | ,65854                | -1,64700                                  |
|   | Equal variances not assumed | ,613                         | -,34663         | ,50524                | -6,17844                                  |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,486                         | -,37188         | ,53252                | -1,42354                                  |
|   | Equal variances not assumed | ,592                         | -,37188         | ,50349                | -6,36896                                  |
| Tolerance   | Equal variances assumed     | ,387                         | -,58750         | ,67798                | -1,92645                                  |
|   | Equal variances not assumed | ,446                         | -,58750         | ,50566                | -6,38129                                  |
| Price or rent                                       | Equal variances assumed     | ,853                         | -,12338         | ,66549                | -1,43804                                  |
|   | Equal variances not assumed | ,105                         | -,12338         | ,07560                | -,27273                                   |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,431                         | -,48374         | ,61218                | -1,69552                                  |
|   | Equal variances not assumed | ,000                         | -,48374         | ,07775                | -,63766                                   |
| Professional interaction at workspace               | Equal variances assumed     | ,538                         | -,45862         | ,74261                | -1,92637                                  |
|   | Equal variances not assumed | ,000                         | -,45862         | ,08692                | -,63043                                   |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,319                         | -,53915         | ,53912                | -1,60445                                  |
|   | Equal variances not assumed | ,345                         | -,53915         | ,33908                | -4,22957                                  |

**Independent Samples Test**

|   |                             | t-test for Equality of Means              |         |
|---|-----------------------------|---|---------|
|   |                             | 95% Confidence Interval of the Difference |         |
|   |                             | Upper                                     |         |
| Cluster advantages                                  | Equal variances assumed     |   | ,79431  |
|   | Equal variances not assumed |   | -,22921 |
| Policy, subsidy or tax advantages                   | Equal variances assumed     |   | 2,80695 |
|   | Equal variances not assumed |   | 6,39641 |
| Accessibility                                       | Equal variances assumed     |   | 2,65330 |
|   | Equal variances not assumed |   | 7,14761 |
| Cost minimization                                   | Equal variances assumed     |   | ,52189  |
|   | Equal variances not assumed |   | 4,60056 |
| Presence of personal/social/family contacts         | Equal variances assumed     |   | ,95375  |
|   | Equal variances not assumed |   | 5,48519 |
| Urban atmosphere and cultural facilities            | Equal variances assumed     |   | ,67979  |
|   | Equal variances not assumed |   | 5,62521 |
| Tolerance   | Equal variances assumed     |   | ,75145  |
|   | Equal variances not assumed |   | 5,20629 |
| Price or rent                                       | Equal variances assumed     |   | 1,19128 |
|   | Equal variances not assumed |   | ,02597  |
| Flexibility of workspace and the presence of others | Equal variances assumed     |   | ,72804  |
|   | Equal variances not assumed |   | -,32982 |
| Professional interaction at workspace               | Equal variances assumed     |   | 1,00912 |
|   | Equal variances not assumed |   | -,28682 |
| Sphere at/surroundings of workspace                 | Equal variances assumed     |   | ,52615  |
|   | Equal variances not assumed |   | 3,15127 |

**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|---|------|------------------------------|---------|
|   |                             | F                                       | Sig. | t                            | df      |
| Advantages from social and professional interaction | Equal variances assumed     | 2,426                                   | ,121 | -,190                        | 159     |
|   | Equal variances not assumed |   |      | -,510                        | 1,207   |
| Increased amount of work                            | Equal variances assumed     | ,415                                    | ,520 | -,119                        | 156     |
|   | Equal variances not assumed |   |      | -,146                        | 1,039   |
| More collaborations projects                        | Equal variances assumed     | 5,672                                   | ,018 | -,908                        | 157     |
|   | Equal variances not assumed |   |      | -8,069                       | 156,000 |
| Cost advantages                                     | Equal variances assumed     | 9,511                                   | ,002 | ,575                         | 162     |
|   | Equal variances not assumed |   |      | 5,188                        | 161,000 |
| Personal advantages                                 | Equal variances assumed     | 3,086                                   | ,081 | ,799                         | 164     |
|   | Equal variances not assumed |   |      | 7,259                        | 163,000 |

**Independent Samples Test**

|  |  | t-test for Equality of Means |  |  |  |
|--|--|------------------------------|--|--|--|
|--|--|------------------------------|--|--|--|

|   |                             | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|---|-----------------------------|-----------------|-----------------|-----------------------|---|
|   |                             |                 |                 |                       | Lower                                     |
| Advantages from social and professional interaction | Equal variances assumed     | ,849            | -,13365         | ,70190                | -1,51990                                  |
|   | Equal variances not assumed | ,688            | -,13365         | ,26202                | -2,37691                                  |
| Increased amount of work                            | Equal variances assumed     | ,905            | -,07372         | ,61866                | -1,29574                                  |
|   | Equal variances not assumed | ,907            | -,07372         | ,50483                | -5,94354                                  |
| More collaborations projects                        | Equal variances assumed     | ,365            | -,69427         | ,76474                | -2,20477                                  |
|   | Equal variances not assumed | ,000            | -,69427         | ,08604                | -,86423                                   |
| Cost advantages                                     | Equal variances assumed     | ,566            | ,48765          | ,84860                | -1,18809                                  |
|   | Equal variances not assumed | ,000            | ,48765          | ,09400                | ,30202                                    |
| Personal_advantages                                 | Equal variances assumed     | ,425            | ,33841          | ,42341                | -,49762                                   |
|   | Equal variances not assumed | ,000            | ,33841          | ,04662                | ,24636                                    |

**Independent Samples Test**

|   |                             | t-test for Equality of Means              |
|---|-----------------------------|---|
|   |                             | 95% Confidence Interval of the Difference |
|   |                             | Upper                                     |
| Advantages from social and professional interaction | Equal variances assumed     | 1,25261                                   |
|   | Equal variances not assumed | 2,10961                                   |
| Increased amount of work                            | Equal variances assumed     | 1,14831                                   |
|   | Equal variances not assumed | 5,79610                                   |
| More collaborations projects                        | Equal variances assumed     | ,81623                                    |
|   | Equal variances not assumed | -,52431                                   |
| Cost advantages                                     | Equal variances assumed     | 2,16340                                   |
|   | Equal variances not assumed | ,67329                                    |
| Personal_advantages                                 | Equal variances assumed     | 1,17444                                   |
|   | Equal variances not assumed | ,43047                                    |

T-Test

Group Statistics

|   | public space (eg. cafe, library) | N   | Mean   | Std. Deviation | Std. Error Mean |
|---|----------------------------------|-----|--------|----------------|-----------------|
| Cluster advantages                                  | No                               | 137 | 3,6472 | ,81526         | ,06965          |
|   | Public space worker              | 8   | 3,5000 | ,99203         | ,35074          |
| Policy, subsidy or tax advantages                   | No                               | 126 | 3,5794 | 1,22868        | ,10946          |
|   | Public space worker              | 6   | 3,3333 | 1,21106        | ,49441          |
| Accessibility                                       | No                               | 155 | 3,8258 | ,94764         | ,07612          |
|   | Public space worker              | 9   | 3,6667 | 1,00000        | ,33333          |
| Cost minimization                                   | No                               | 140 | 3,5143 | 1,08280        | ,09151          |
|   | Public space worker              | 9   | 3,5556 | 1,13039        | ,37680          |
| Presence of personal/social/family contacts         | No                               | 156 | 4,1538 | ,94462         | ,07563          |
|   | Public space worker              | 9   | 4,2222 | ,44096         | ,14699          |
| Urban atmosphere and cultural facilities            | No                               | 153 | 4,1340 | ,75001         | ,06064          |
|   | Public space worker              | 9   | 4,1111 | ,74068         | ,24689          |
| Tolerance   | No                               | 153 | 3,9281 | ,93966         | ,07597          |
|   | Public space worker              | 9   | 3,7778 | 1,20185        | ,40062          |
| Price or rent                                       | No                               | 148 | 3,8649 | ,93786         | ,07709          |
|   | Public space worker              | 8   | 4,1250 | ,83452         | ,29505          |
| Flexibility of workspace and the presence of others | No                               | 117 | 3,4936 | ,86569         | ,08003          |
|   | Public space worker              | 8   | 3,9688 | ,60412         | ,21359          |
| Professional interaction at workspace               | No                               | 139 | 3,5360 | 1,04888        | ,08896          |
|   | Public space worker              | 8   | 3,7500 | ,92582         | ,32733          |
| Sphere at/surroundings of workspace                 | No                               | 143 | 3,7995 | ,76211         | ,06373          |
|   | Public space worker              | 8   | 3,8333 | ,71270         | ,25198          |
| Advantages from social and professional interaction | No                               | 152 | 3,6250 | ,97866         | ,07938          |
|   | Public space worker              | 9   | 3,5000 | 1,11803        | ,37268          |
| Increased amount of work                            | No                               | 150 | 3,4067 | ,86192         | ,07038          |
|   | Public space worker              | 8   | 3,8125 | ,92341         | ,32647          |
| More collaborations projects                        | No                               | 150 | 3,3200 | 1,07641        | ,08789          |
|   | Public space worker              | 9   | 3,2222 | 1,09291        | ,36430          |
| Cost advantages                                     | No                               | 155 | 3,4581 | 1,19652        | ,09611          |
|   | Public space worker              | 9   | 3,8889 | 1,05409        | ,35136          |
| Personal advantages                                 | No                               | 156 | 4,0881 | ,58393         | ,04675          |
|   | Public space worker              | 10  | 4,0250 | ,77683         | ,24566          |

Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |
|---|-----------------------------|---|------|------------------------------|--------|-----------------|
|   |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) |
| Cluster advantages                                  | Equal variances assumed     | ,981                                    | ,324 | ,491                         | 143    | ,624            |
|   | Equal variances not assumed |   |      | ,412                         | 7,562  | ,692            |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | ,532                                    | ,467 | ,479                         | 130    | ,632            |
|   | Equal variances not assumed |   |      | ,486                         | 5,502  | ,646            |
| Accessibility                                       | Equal variances assumed     | ,054                                    | ,816 | ,488                         | 162    | ,626            |
|   | Equal variances not assumed |   |      | ,465                         | 8,855  | ,653            |
| Cost minimization                                   | Equal variances assumed     | ,014                                    | ,905 | -,111                        | 147    | ,912            |
|   | Equal variances not assumed |   |      | -,106                        | 8,970  | ,918            |
| Presence of personal/social/family contacts         | Equal variances assumed     | 6,028                                   | ,015 | -,215                        | 163    | ,830            |
|   | Equal variances not assumed |   |      | -,414                        | 12,751 | ,686            |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | ,085                                    | ,771 | ,089                         | 160    | ,929            |
|   | Equal variances not assumed |   |      | ,090                         | 8,992  | ,930            |
| Tolerance   | Equal variances assumed     | 1,193                                   | ,276 | ,459                         | 160    | ,647            |
|   | Equal variances not assumed |   |      | ,369                         | 8,585  | ,721            |
| Price or rent                                       | Equal variances assumed     | ,167                                    | ,684 | -,768                        | 154    | ,444            |
|   | Equal variances not assumed |   |      | -,853                        | 7,987  | ,418            |
| Flexibility of workspace and the presence of others | Equal variances assumed     | 1,801                                   | ,182 | -1,524                       | 123    | ,130            |
|   | Equal variances not assumed |   |      | -2,083                       | 9,093  | ,067            |
| Professional interaction at workspace               | Equal variances assumed     | ,725                                    | ,396 | -,564                        | 145    | ,573            |
|   | Equal variances not assumed |   |      | -,631                        | 8,070  | ,546            |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | ,096                                    | ,757 | -,122                        | 149    | ,903            |
|   | Equal variances not assumed |   |      | -,130                        | 7,923  | ,900            |

Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |       |                 |
|---|-----------------------------|---|------|------------------------------|-------|-----------------|
|   |                             | F                                       | Sig. | t                            | df    | Sig. (2-tailed) |
| Advantages from social and professional interaction | Equal variances assumed     | ,134                                    | ,715 | ,369                         | 159   | ,712            |
|   | Equal variances not assumed |   |      | ,328                         | 8,741 | ,751            |
| Increased amount of work                            | Equal variances assumed     | ,016                                    | ,899 | -1,293                       | 156   | ,198            |
|   | Equal variances not assumed |   |      | -1,215                       | 7,665 | ,260            |
| More collaborations projects                        | Equal variances assumed     | ,004                                    | ,947 | ,264                         | 157   | ,792            |
|   | Equal variances not assumed |   |      | ,261                         | 8,957 | ,800            |
| Cost advantages                                     | Equal variances assumed     | 2,345                                   | ,128 | -1,056                       | 162   | ,293            |
|   | Equal variances not assumed |   |      | -1,183                       | 9,239 | ,266            |

|                     |                             |      |      |      |       |      |
|---------------------|-----------------------------|------|------|------|-------|------|
| Personal_advantages | Equal variances assumed     | ,411 | ,522 | ,325 | 164   | ,746 |
|                     | Equal variances not assumed |      |      | ,252 | 9,663 | ,806 |

**T-Test**

**Group Statistics**

|   |                    | N   | Mean   | Std. Deviation | Std. Error Mean |
|---|--------------------|-----|--------|----------------|-----------------|
|   | on location        |     |        |                |                 |
| Cluster advantages                                  | Niet ingevuld      | 141 | 3,6265 | ,82180         | ,06921          |
|   | Worker on location | 4   | 4,0833 | ,83333         | ,41667          |
| Policy, subsidy or tax advantages                   | Niet ingevuld      | 127 | 3,5512 | 1,21961        | ,10822          |
|   | Worker on location | 5   | 4,0000 | 1,41421        | ,63246          |
| Accessibility                                       | Niet ingevuld      | 159 | 3,8113 | ,94246         | ,07474          |
|   | Worker on location | 5   | 4,0000 | 1,22474        | ,54772          |
| Cost minimization                                   | Niet ingevuld      | 145 | 3,5103 | 1,07443        | ,08923          |
|   | Worker on location | 4   | 3,7500 | 1,50000        | ,75000          |
| Presence of personal/social/family contacts         | Niet ingevuld      | 160 | 4,1563 | ,92856         | ,07341          |
|   | Worker on location | 5   | 4,2000 | ,83666         | ,37417          |
| Urban atmosphere and cultural facilities            | Niet ingevuld      | 157 | 4,1274 | ,75512         | ,06027          |
|   | Worker on location | 5   | 4,3000 | ,44721         | ,20000          |
| Tolerance   | Niet ingevuld      | 157 | 3,9299 | ,94811         | ,07567          |
|   | Worker on location | 5   | 3,6000 | 1,14018        | ,50990          |
| Price or rent                                       | Niet ingevuld      | 152 | 3,8816 | ,93451         | ,07580          |
|   | Worker on location | 4   | 3,7500 | ,95743         | ,47871          |
| Flexibility of workspace and the presence of others | Niet ingevuld      | 122 | 3,5102 | ,85001         | ,07696          |
|   | Worker on location | 3   | 4,0833 | 1,18145        | ,68211          |
| Professional interaction at workspace               | Niet ingevuld      | 144 | 3,5417 | 1,03353        | ,08613          |
|   | Worker on location | 3   | 3,8333 | 1,60728        | ,92796          |
| Sphere at/surroundings of workspace                 | Niet ingevuld      | 147 | 3,7982 | ,76307         | ,06294          |
|   | Worker on location | 4   | 3,9167 | ,56928         | ,28464          |
| Advantages from social and professional interaction | Niet ingevuld      | 157 | 3,6274 | ,99180         | ,07915          |
|   | Worker on location | 4   | 3,2500 | ,50000         | ,25000          |
| Increased amount of work                            | Niet ingevuld      | 154 | 3,4383 | ,87509         | ,07052          |
|   | Worker on location | 4   | 3,0000 | ,00000         | ,00000          |
| More collaborations projects                        | Niet ingevuld      | 155 | 3,3290 | 1,08178        | ,08689          |
|   | Worker on location | 4   | 2,7500 | ,50000         | ,25000          |
| Cost advantages                                     | Niet ingevuld      | 160 | 3,4938 | 1,19747        | ,09467          |
|   | Worker on location | 4   | 3,0000 | ,81650         | ,40825          |
| Personal_advantages                                 | Niet ingevuld      | 161 | 4,0807 | ,59661         | ,04702          |
|   | Worker on location | 5   | 4,2000 | ,57009         | ,25495          |

**Independent Samples Test**

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |       |
|---|-----------------------------|---|------|------------------------------|-------|
|   |                             | F                                       | Sig. | t                            | df    |
| Cluster advantages                                  | Equal variances assumed     | ,153                                    | ,696 | -1,096                       | 143   |
|   | Equal variances not assumed |   |      | -1,082                       | 3,168 |
| Policy, subsidy or tax advantages                   | Equal variances assumed     | ,135                                    | ,714 | -,803                        | 130   |
|   | Equal variances not assumed |   |      | -,699                        | 4,238 |
| Accessibility                                       | Equal variances assumed     | ,012                                    | ,913 | -,437                        | 162   |
|   | Equal variances not assumed |   |      | -,341                        | 4,150 |
| Cost minimization                                   | Equal variances assumed     | 1,435                                   | ,233 | -,436                        | 147   |
|   | Equal variances not assumed |   |      | -,317                        | 3,086 |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,247                                    | ,620 | -,104                        | 163   |
|   | Equal variances not assumed |   |      | -,115                        | 4,314 |
| Urban atmosphere and cultural facilities            | Equal variances assumed     | 2,437                                   | ,120 | -,507                        | 160   |
|   | Equal variances not assumed |   |      | -,826                        | 4,758 |
| Tolerance   | Equal variances assumed     | ,225                                    | ,636 | ,762                         | 160   |
|   | Equal variances not assumed |   |      | ,640                         | 4,178 |
| Price or rent                                       | Equal variances assumed     | ,004                                    | ,948 | ,278                         | 154   |
|   | Equal variances not assumed |   |      | ,271                         | 3,152 |
| Flexibility of workspace and the presence of others | Equal variances assumed     | ,466                                    | ,496 | -1,145                       | 123   |
|   | Equal variances not assumed |   |      | -,835                        | 2,051 |
| Professional interaction at workspace               | Equal variances assumed     | 1,196                                   | ,276 | -,479                        | 145   |
|   | Equal variances not assumed |   |      | -,313                        | 2,035 |
| Sphere at/surroundings of workspace                 | Equal variances assumed     | 1,046                                   | ,308 | -,308                        | 149   |
|   | Equal variances not assumed |   |      | -,406                        | 3,300 |

**Independent Samples Test**

|                                   |                             | t-test for Equality of Means |                 |                       |   |
|-----------------------------------|-----------------------------|------------------------------|-----------------|-----------------------|---|
|                                   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|                                   |                             |                              |                 |                       | Lower                                     |
| Cluster advantages                | Equal variances assumed     | ,275                         | -,45686         | ,41681                | -1,28076                                  |
|                                   | Equal variances not assumed | ,355                         | -,45686         | ,42238                | -1,76165                                  |
| Policy, subsidy or tax advantages | Equal variances assumed     | ,423                         | -,44882         | ,55900                | -1,55473                                  |
|                                   | Equal variances not assumed | ,521                         | -,44882         | ,64165                | -2,19162                                  |
| Accessibility                     | Equal variances assumed     | ,663                         | -,18868         | ,43168                | -1,04112                                  |
|                                   | Equal variances not assumed | ,749                         | -,18868         | ,55280                | -1,70182                                  |
| Cost minimization                 | Equal variances assumed     | ,664                         | -,23966         | ,54982                | -1,32624                                  |



|   |                             |      |         |        |          |
|---|-----------------------------|------|---------|--------|----------|
|   | Equal variances not assumed | ,771 | -,23966 | ,75529 | -2,60607 |
| Presence of personal/social/family contacts         | Equal variances assumed     | ,917 | -,04375 | ,42073 | -,87453  |
| Urban atmosphere and cultural facilities            | Equal variances not assumed | ,914 | -,04375 | ,38130 | -1,07272 |
|   | Equal variances assumed     | ,613 | -,17261 | ,34024 | -,84455  |
| Tolerance   | Equal variances not assumed | ,448 | -,17261 | ,20888 | -,71787  |
|   | Equal variances assumed     | ,447 | ,32994  | ,43310 | -,52539  |
| Price or rent                                       | Equal variances not assumed | ,556 | ,32994  | ,51549 | -1,07754 |
|   | Equal variances assumed     | ,782 | ,13158  | ,47359 | -,80399  |
| Flexibility of workspace and the presence of others | Equal variances not assumed | ,803 | ,13158  | ,48468 | -1,36957 |
|   | Equal variances assumed     | ,254 | -,57309 | ,50050 | -1,56380 |
| Professional interaction at workspace               | Equal variances not assumed | ,490 | -,57309 | ,68644 | -3,45702 |
|   | Equal variances assumed     | ,633 | -,29167 | ,60876 | -1,49486 |
| Sphere at/surroundings of workspace                 | Equal variances not assumed | ,783 | -,29167 | ,93195 | -4,23687 |
|   | Equal variances assumed     | ,759 | -,11848 | ,38496 | -,87917  |
|   | Equal variances not assumed | ,709 | -,11848 | ,29151 | -1,00022 |

#### Independent Samples Test

|   |                             | t-test for Equality of Means              |         |
|---|-----------------------------|---|---------|
|   |                             | 95% Confidence Interval of the Difference |         |
|   |                             | Upper                                     |         |
| Cluster advantages                                  | Equal variances assumed     |   | ,36705  |
|   | Equal variances not assumed |   | ,84794  |
| Policy, subsidy or tax advantages                   | Equal variances assumed     |   | ,65709  |
|   | Equal variances not assumed |   | 1,29398 |
| Accessibility                                       | Equal variances assumed     |   | ,66377  |
|   | Equal variances not assumed |   | 1,32446 |
| Cost minimization                                   | Equal variances assumed     |   | ,84693  |
|   | Equal variances not assumed |   | 2,12676 |
| Presence of personal/social/family contacts         | Equal variances assumed     |   | ,78703  |
|   | Equal variances not assumed |   | ,98522  |
| Urban atmosphere and cultural facilities            | Equal variances assumed     |   | ,49933  |
|   | Equal variances not assumed |   | ,37264  |
| Tolerance   | Equal variances assumed     |   | 1,18527 |
|   | Equal variances not assumed |   | 1,73742 |
| Price or rent                                       | Equal variances assumed     |   | 1,06715 |
|   | Equal variances not assumed |   | 1,63273 |
| Flexibility of workspace and the presence of others | Equal variances assumed     |   | ,41762  |
|   | Equal variances not assumed |   | 2,31085 |
| Professional interaction at workspace               | Equal variances assumed     |   | ,91152  |
|   | Equal variances not assumed |   | 3,65354 |
| Sphere at/surroundings of workspace                 | Equal variances assumed     |   | ,64221  |
|   | Equal variances not assumed |   | ,76326  |

#### Independent Samples Test

|   |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |         |
|---|-----------------------------|---|------|------------------------------|---------|
|   |                             | F                                       | Sig. | t                            | df      |
| Advantages from social and professional interaction | Equal variances assumed     | 2,932                                   | ,089 | ,757                         | 159     |
|   | Equal variances not assumed |   |      | 1,439                        | 3,631   |
| Increased amount of work                            | Equal variances assumed     | 8,877                                   | ,003 | ,999                         | 156     |
|   | Equal variances not assumed |   |      | 6,216                        | 153,000 |
| More collaborations projects                        | Equal variances assumed     | 4,353                                   | ,039 | 1,065                        | 157     |
|   | Equal variances not assumed |   |      | 2,188                        | 3,768   |
| Cost advantages                                     | Equal variances assumed     | 5,451                                   | ,021 | ,819                         | 162     |
|   | Equal variances not assumed |   |      | 1,178                        | 3,331   |
| Personal_advantages                                 | Equal variances assumed     | ,018                                    | ,894 | -,441                        | 164     |
|   | Equal variances not assumed |   |      | -,460                        | 4,277   |

#### Independent Samples Test

|   |                             | t-test for Equality of Means |                 |                       |   |
|---|-----------------------------|------------------------------|-----------------|-----------------------|---|
|   |                             | Sig. (2-tailed)              | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
|   |                             |                              |                 |                       | Lower                                     |
| Advantages from social and professional interaction | Equal variances assumed     | ,450                         | ,37739          | ,49863                | -,60741                                   |
|   | Equal variances not assumed | ,230                         | ,37739          | ,26223                | -,38082                                   |
| Increased amount of work                            | Equal variances assumed     | ,320                         | ,43831          | ,43891                | -,42866                                   |
|   | Equal variances not assumed | ,000                         | ,43831          | ,07052                | ,29900                                    |
| More collaborations projects                        | Equal variances assumed     | ,289                         | ,57903          | ,54370                | -,49487                                   |
|   | Equal variances not assumed | ,098                         | ,57903          | ,26467                | -,17404                                   |
| Cost advantages                                     | Equal variances assumed     | ,414                         | ,49375          | ,60316                | -,69732                                   |
|   | Equal variances not assumed | ,316                         | ,49375          | ,41908                | -,76800                                   |
| Personal_advantages                                 | Equal variances assumed     | ,660                         | -,11925         | ,27063                | -,65363                                   |
|   | Equal variances not assumed | ,668                         | -,11925         | ,25925                | -,82106                                   |

#### Independent Samples Test

|  |  | t-test for Equality of Means |
|--|--|------------------------------|
|--|--|------------------------------|

|   |                             | 95% Confidence Interval of the Difference |
|---|-----------------------------|---|
|   |                             | Upper                                     |
| Advantages from social and professional interaction | Equal variances assumed     | 1,36218                                   |
|   | Equal variances not assumed | 1,13560                                   |
| Increased amount of work                            | Equal variances assumed     | 1,30528                                   |
|   | Equal variances not assumed | ,57762                                    |
| More collaborations projects                        | Equal variances assumed     | 1,65293                                   |
|   | Equal variances not assumed | 1,33211                                   |
| Cost advantages                                     | Equal variances assumed     | 1,68482                                   |
|   | Equal variances not assumed | 1,75550                                   |
| Personal_advantages                                 | Equal variances assumed     | ,41512                                    |
|   | Equal variances not assumed | ,58255                                    |