

Freelancing on digital work platforms – roles of virtual community trust and work engagement on person–job fit

Toth Ilona, Heinänen Sanna, Blomqvist Kirsimarja

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Abstract

Purpose

The purpose of this paper is to investigate the impact of virtual community trust on work engagement and person-job fit in the context of digital work platforms. The emergence of the platform economy is changing the work environment fundamentally. It has enabled the appearance of alternative work arrangements, such as temporary organizing and the increase of independent contracting, also among highly specialized knowledge workers.

Design/methodology/approach

Data was collected with an online survey and used to test the relationships between virtual community trust, work engagement and person-job fit. Confirmatory factor analysis and structural equation modelling were used to test the goodness of a theoretical model.

Findings

Based on the data of 127 experts contracting on digital work platforms, virtual community trust positively affects both work engagement and person-job fit. In addition, the relationship between work engagement and person-job fit in the context of digital work platforms is significant and positive.

Practical implications

This study shows that trust among independent contractors working on digital platforms is important for work engagement, and that platform providers can improve work performance through person-job fit by assisting in the creation of trust among members of their platforms.

Originality/value

Research literature on knowledge work in the changing context of work is scarce, and the role of trust in the context of digital work platforms needs clarification. This paper tests a theoretical model on the effects of trust among highly skilled experts working in the digital platform context as independent

contractors, and provides evidence for the importance of building trust among members of a virtual work community.

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3 paper Keywords Knowledge workers, Freelancing, Digital work platform, Virtual community trust, Work engagement, Person-job fit

Paper type Research paper

1. Introduction

Knowledge work is currently undergoing several significant changes. The emergence of the platform economy (Caballer, Gracia and Peiró, 2016), an increasing number of freelancing in highly complex expert work (Turner and Pennington, 2015), and various forms of temporary organizing (Aguinis and Lawal, 2013; Spinuzzi, 2012), are leading to a shift from steady traditional work relationships to increased heterogeneity of work relationships and related tasks (Sullivan, Forret, Mainiero and Terjesen, 2007), as well as ways of doing them. Current technological and socio-economical changes lower job stability and may also challenge understanding of person-job fit as a psychological state (Edwards, 2008).

Global competition, constant demand for innovation and a tendency towards organizing work in projects and assigning teams to work tasks have made the world of work more fast-paced and demanding (Turner and Pennington, 2015). For employees there is a continuous demand for expanding their knowledge base, building social networks, and participating in competition. This trend has further been strengthened by the increase of virtual work, which means that work is no longer tied to an office location and office hours, which results in blurring the boundary between work and private life. (van Beek, Hu, Schaufeli, Taris and Schreurs, 2012.)

For knowledge workers this is a challenging position as these highly skilled experts are expected to align and identify with an organization while at the same time being flexible and ready for change (Kelliher and Richardson, 2011). The focus of employability is on individual skills and competences which are needed both at the technical and social level, i.e. co-operation with colleagues, superiors, and customers (Süß and Becker, 2013).

One of the new business trends enabled by digitalization is the so-called platform economy, which means benefiting from a set of online digital arrangements in organizing and structuring economic and social activities. Platform economy means changing radically the way we work, socialize, and create value. Platforms can mediate work in many ways including transformations from independent knowledge work to crowdsourcing (i.e. dividing work between participants for cumulative results) and by transforming traditional work into tasks which can be performed by contractors, or even creating entirely new categories of work and entrepreneurial opportunities. Theoretical contributions about the effects of these platforms on the global economy are still scarce. (Kenney and Zysman, 2016.)

From the work engagement perspective, the importance of organizational culture and talent development along with trust building are emphasized in the context of new work. Building trust translates to other

values such as empowering employees to take charge of their own career development and driving new knowledge creation through workplace practices. (Kane, Palmer, Nguyen Phillips, Kiron and Buckley, 2016.) There is also a need to understand what happens to work engagement outside traditional organizational settings (Spreitzer, Cameron and Garrett, 2017).

"Independent contractors are defined as self-employed individuals who contract or sell their services to a client organization on a fixed term or project basis" (Aguinis and Lawal, 2013, 8). Boundaryless knowledge workers choose self-employment for various reasons, the most commonly mentioned of which are issues in relation to autonomy, flexibility, and work life balance (Van den Born and Van Witteloostuijn, 2013). These high-skill professionals who engage in freelance contract work are clearly distinguishable from traditional temporary workers, as their preference for short-term contracting is often voluntary and they have continuously reported positive outcomes about job and career satisfaction (Van den Born and Van Witteloostuijn, 2013).

Based on the ongoing academic and popular discussion on digitalization and the future of work, it is of interest to explore the relationship between virtual community trust, work engagement, and person-job fit. Despite increased freedom and flexibility, freelancers seek for social support in their work to reduce stress caused by work demands (García-Herrero, Mariscal, Gutiérrez and Ritzel, 2013).

Spreitzer et al. (2017) classify people who engage in alternative work arrangements as belonging to three different groups: high-skill freelancers who prefer work-life flexibility, permanent employees who choose to work extra, and low-wage service workers. The first two classes correspond to the research settings in this study, as the data was collected from the context of digital work platforms where knowledge workers are not employed but paid by assignment. A theoretical research model is built where person-job fit is affected by both virtual community trust and the experience of work engagement. The sample consists of 127 experts working on digital work platforms on contractual basis. Respondents represent two different organizations arranging their work tasks through digital work platforms. One organization is based on the idea of co-creation where complex problem solving tasks are assigned for temporary project teams composed of members of a large expert community. The other organization offers autonomous expert services where clients submit task requests online and the organization assigns suitable freelancers from their community.

The article is structured as follows. We first present theoretical foundations for the three major concepts in our study, that is, work engagement, person-job fit and virtual community trust in chapter 2. We then proceed to describing the research settings and methodology used in chapter 3, which is followed by chapter 4 reporting our research results. Chapter 5 discusses our findings together with their theoretical

implications and managerial contribution. The article ends with our conclusions, which are made in chapter 6.

2. Theoretical foundation and hypotheses development

2.1 Virtual community trust

Prior research emphasizes the role of trust both in organizational and interest-based virtual communities (Kosonen, Blomqvist and Ellonen, 2008; Kosonen, 2009). "Virtual communities can be defined as groups of people with common interests and practices that communicate regularly and for some duration in an organized way over the Internet through a common location or mechanism" (Ridings, Gefen and Arinze, 2002, 273). Their role has been suggested to become increasingly important in digital platforms (Faraj, von Krogh, Monteiro and Lakhani, 2016) that offer individuals temporary work without monthly pay and long-term commitment. Individuals working as freelancers do not have a supervisor and collegial support available in traditional organizations. In this type of unstructured organizational context, trust becomes quintessential (Dirks and Ferrin, 2001) enhancing individual positive expectations and willingness to accept vulnerability and risks embedded (Blomqvist, 1997).

In past research, trust has been defined as "the willingness of a party to be vulnerable to the actions of another party based on the expectations that the other will perform a particular action important to the trustor, irrespective of the ability to monitor or control the other party" (Mayer, Davis and Schoorman, 1995). According to this widely used conceptualization, trust is a multi-dimensional construct consisting of ability, benevolence and integrity. We adopt this definition and the Trusting Beliefs Scale measure developed for the e-commerce context by McKnight, Choudbury and Kacmar (2002) and further applied in the virtual community context by Usoro, Sharrat, Tsui and Shekhar (2007).

Much of the past research on virtual community trust has focused in information and knowledge sharing (Ridings et al., 2002; Hsu, Ju, Yen and Chang, 2007; Chen and Hung, 2010; Majewski, Usoro and Khan, 2011) yet there can be other less studied benefits. In the organizational context trust has been shown to generate positive outcomes in employee attitudes, perception, behavior and performance (Dirks and Ferrin, 2001) such as job satisfaction (Rich, 1997), enhanced effort (Dirks, 1999), and task performance (Oldham, 1975).

Despite the extensive research on organizational and virtual community context, the research on freelancer trust in digital work platforms is still scarce, if not non-existing. In this specific context, virtual

community trust may be critical in substituting supervisor, team and organizational structures available in traditional organizations (Faraj et al., 2016) and providing the much needed supporting social context for freelancers (Colbert, Yee and George, 2016; Heaphy, Byron, Ballinger, Gittell, Leana and Sluss, 2018).

2.2 Work engagement

Work engagement has been identified as one of the most significant drivers for positive work performance (Rich, Lepine and Crawford, 2010). It is a psychological state, which consists of physical, emotional, and cognitive behavioral aspects (Kahn 1990; 1992) of work. It has been defined as "a desirable condition, [which] has an organizational purpose, and connotes involvement, commitment, passion, enthusiasm, focused effort, and energy" (Macey and Schneider, 2008, 4) and as "a positive, fulfilling work-related state of mind that is characterized by vigor, dedication, and absorption" (Schaufeli, Salanova, González-Roma and Bakker 2002, 74). Work engagement is thus strongly connected to meaningful work (Macey and Schneider, 2008) which is directly related to the significance of work as well as positive valence (Steger, Dik and Duffy, 2012).

The history of the work engagement concept lies in the positive psychology movement originated by Seligman and Csikszentmihalyi (2000) during the early 21st century, as research on human behavior and motivation had earlier been strongly orientated towards negative theories and finding remedies for negative states, such as burnout. The rise of positive psychology has led to an interest in work-related well-being and the emergence of a new work-related concept, i.e. work engagement. Work engagement is closely related to other concepts, which show positive orientation towards work, such as organizational commitment, job satisfaction, and job involvement. However, several researchers (Saks and Gruman, 2014, Rich et al., 2010; Hallberg and Schaufeli, 2006) have argued towards work engagement's originality as a concept, and provide convincing evidence as to the status of work engagement as an independent concept, separate from burnout (Schaufeli and Salanova, 2007) and workaholism (Mäkikangas, Schaufeli, Tolvanen and Feldt, 2013).

The work-related engagement construct relies on the Job Demands-Resources Model created by Demerouti, Bakker, Nachreiner and Schaufeli in 2001, which can also be used as an alternative way for measuring employee well-being. The Job Demands-Resources model is a heuristic model specifying how employee well-being can be produced by two sets of working conditions. Job demands are characteristics of the job, which can evoke strain if they exceed the employee's adaptive capability, and job resources are working conditions, which the job at hand offers to individual employees. The basic idea behind the model is thus that while job demands can lead to exhausting employees' physical and

mental resources, job resources are motivational and can lead to positive attitudes, behavior, and well-being.

It has been established in several studies (e.g. Bakker, Albrecht and Leiter, 2011; Edwards, 2008) that increased work engagement leads to a better person-job fit. We believe that work engagement is especially critical for person-job fit in new forms of organizing knowledge work (Sullivan et al., 2007), such as digital work platforms where work is done on contractual basis by independent freelancers. Thus, we aim to clarify the relationship between virtual community trust, work engagement and person-job fit in the context of temporary digital platform work.

2.3 Person-job fit

We draw on the past research on *person-job fit* (Edwards, 2008; Kristof-Brown, Zimmerman and Johnson, 2005) which describes a match between personal abilities and demands of the job (Cable and Judge, 1996; Lauver and Kristof-Brown, 2001). Person-job fit is part of a larger framework of person-environment fit relationships. A meta-analysis conducted by Kristof-Brown et al. (2005) identifies four types of person-environment fit relationships in work contexts. These are person-job fit, person-organization fit, person-group fit, and person-supervisor fit. Especially the first two have been most extensive studied by researchers (Sekiguchi, 2004).

Resick, Baltes, and Shantz (2007) have defined job fit as the degree to which a person feels that his/her personality meets with the values of the current job. Whereas person-organization fit emphasizes the compatibility between an employee and the organization (Sekiguchi, 2004), person-job fit focuses on the match between personal characteristics and job characteristics (Resick et al., 2007). Researchers who have studied person-job fit suggest that it provides possibilities for individually meaningful work (Shuck, Reio, and Rocco, 2011) which together with trust and value congruence (Siebert, Martin, and Bozic, 2016) is an important antecedent to work engagement.

According to past research, person-job fit leads to job satisfaction (Latham and Pinder, 2005), and is also related to beneficial organizational results (Tims and Bakker, 2010; Edwards, 2008). Person-job fit is an important factor in recruitment processes where the individual's knowledge, skills and abilities need to be considered in relation to the demands of the job description (Edwards, 2008). In addition to the fit between personal abilities and demands of the job, person-job fit also deals with employees' needs and preferences towards the work tasks that they perform. This type of person-job fit concerns the needs-supplies and/or supplies-values fit (Kristof-Brown, et al., 2005.)

2.4 Hypotheses

For the freelancers working on temporary tasks on digital work platforms the person-job fit may be relatively more important than the fit in person-team, person-supervisor, or person-organization. Based on research on the positive organizational (Dirks and Ferrin, 2001) and virtual community outcomes (Ridings et al., 2002) we assume that trust can have a positive impact on person-job fit by enhancing freelancer job-related positive attitudes, motivation and performance. Likewise, based on past scarce research on the relationship of trust and work engagement (Chughtai and Buckley, 2008; Agarwal, 2014) we expect that virtual community trust can have a positive impact on individual work engagement on digital work platforms. Therefore, we seek to clarify the relationships between **virtual community trust and person-job fit** in the context of temporary work on digital platforms. Thus, we hypothesize that:

- H1 Virtual community trust is positively related to work engagement
- H2 Virtual community trust is positively related to person-job fit
- H3 Work engagement is positively related to person-job fit

2.5 Research model

The connection between trust and work engagement has previously been studied by e.g. Macey and Schneider (2008) and by Sharkie (2009). Chucktai and Buckley (2008) have established a mutually reinforcing relationship between trust and work engagement, which can lead to a positive spiral effect. Finally, experience-driven communities have shown to generate trust and engagement (Hsu et al., 2012). By experience-driven communities we mean the community-based experiences where value is delivered through reciprocal bonding (Hsu et al., 2012). The simultaneous effects of virtual community trust and that of work engagement to person-job fit have not been previously studied in the context of virtual knowledge work. We expect that the relationship between virtual community trust and work engagement is positive and that virtual community trust further intensifies the relationship between work engagement and person-job fit. Our research model is presented in Figure 1 below.

3. Methodology

3.1 Sample and procedure

The data was collected in March 2018 with an online questionnaire sent to experts working for two digital work platforms. The headquarters of the organizations are based in Finland but both contract experts around the world. The sample consists of experts who had joined the platform organization either before May 2017 or within a year. The survey was open for three weeks during which time 227 persons answered the questionnaire.

Out of the 227 respondents, 57.6 % were male, and 42.4 % were female. A clear majority of the respondents, 70.3 %, were between 25-44 years of age. 35.0 % of the respondents were Finnish, while 65.0 % of the respondents were of mixed nationalities. Roughly half of the respondents (44.5 %) said they had a bachelor or a master level university education. Rest of the respondents did not wish to state their educational background. Due to missing values in responses, the effective sample size was 127 responses.

3.2 Measures

We used a well-constructed and validated scale for measuring virtual community trust; that is Usoro et al.'s (2007) Virtual community trust measure, which consists of 12 items. We followed the principles by Heggestad, Sheaf, Banks, Monroe Hausfeld, Tonidandel and Williams (2019) and ensured its content validity by pre-testing the measure in the freelancer context. WE also used Schaufeli, Bakker and Salanova's (2006) shortened version of the Work and Well-being Survey UWES (Utrech Work Engagement Scale) which consists of 9 items, and Kristof-Brown et al.'s (2005) Person-job fit measure which consists of five items, to test our hypotheses. Examples of measuring items are "The community is truthful in its dealings with me." or "The community would keep its commitments." for virtual community trust; "I am enthusiastic about my job." or "I get carried away when I'm working." for work engagement; and "To what extent does working in XYZ's projects fit with your expectations?" for PJF. The question formatting was based on the Likert scale with 1 equaling 'Strongly disagree' or 'Never', to 7 equaling 'Strongly agree' or 'Always', as the extreme ends of the scale. We used Structural Equation Modelling (SEM) with LISREL to test the goodness of our research model.

The data included incomplete responses with various frequencies of missing values. Multiple imputation was conducted only for cases that had missing values for less than 50 percent per measured concept. This resulted in an effective sample of 127 responses.

4. Results

4.1 Measurement model validation

Confirmatory factor analysis was conducted in order to verify the measurement of the key concepts used in the present study. Maximum likelihood estimation was applied with LISREL assuming the variables to be continuous. Some modifications were necessary although the measurement items were based on previously validated items. The short scale for measuring engagement (UWES-9) was shortened to include only two items for each of the latent dimensions. In addition, one item was dropped from the person job fit scale. Virtual community trust originally included twelve items expected to load on three latent dimension. Three items were dropped due to low loadings and misfit leading to the conclusion that the latent dimensions of benevolence, integrity and competence were each measured with three items. With these changes, the model fit meets the standards for good fit allowing further analysis (Table 1).

<>< Please insert Table 1 about here >>>

4.2 Hypotheses testing

The hypotheses were tested using maximum likelihood estimation with LISREL. For the purpose of modelling the structural research model, the measurement of work engagement included summated scales computed based on the results of the confirmatory factor analysis. This means that work engagement will further on be reflected with three indicators (vigor, dedication, absorption). Each of these were computed mean values of the indicators accepted in the measurement model analysis. A similar manner was applied for virtual community trust and its dimensions. This principal and the results of the modelling are presented in Figure 2.

<<< Please insert Figure 2 about here >>>

Model itself provided adequate level of fit (χ^2 =58.47, df=32, RMSEA=0.081, NFI=0.957, NNFI=0.968).

While considering the structure of the model itself, all paths appeared to be highly significant (p < .001). The first hypothesis discussed the relationship between virtual community trust and work engagement. It seems that virtual community trust has a positive influence on work engagement as proposed. However, the explanatory power is naturally quite low as virtual community trust explains only 12.4 percent of the variation in work engagement.

The second hypothesis suggested that virtual community trust has a positive influence on person job fit. Based on the results, this hypothesis is supported with a positive and statistically significant path coefficient. The third and final hypothesis concerned the relationship between work engagement and person job fit and is accepted based on the results. The resulting path coefficient has the highest absolute value in the model indicating that there exists a strong positive relationship between these two constructs. The overall R square for person job fit was 0.564, which means that virtual community trust and work engagement together have a high explanatory power on person job fit.

5. Discussion

In response to a growing interest on the changing context of knowledge work and the increase of alternative work arrangements (Spreitzer et al., 2017), the present study emphasizes the importance of virtual community trust on the development of both the experience of work engagement and person-job fit in the digital work platform context. Previously, Agarwal (2014) has studied the relationship between justice, trust and innovative work behavior to work engagement. However to our knowledge, research linking trust and work engagement in digital work platform is currently non-existent.

The positive connection between work engagement and person-job fit has been established in several studies (e.g. Bakker et al., 2011; Edwards, 2008) but as far as we know the simultaneous effect of both virtual community trust and work engagement on person-job fit has not been previously investigated.

5.1 Theoretical implications

Our contribution to existing research literature is significant as a growing number of employees can be classified as knowledge workers. By knowledge workers we mean employees who use knowledge for higher productivity and performance (Davenport, Thomas, Cantrell and De Long, 2002; Nickols, 2000; Dul, Ceylan and Jaspers, 2011) either as independent contractors or as employees in organizations.

May, Gilson, and Harter (2004) state that people seek out work roles that allow them to behave in a way that expresses their authentic self-concepts. This finding is align with our research model as our purpose was to evaluate whether an expert's idea of meaningful work fits with the characteristics of temporary project work offered on the digital platform. Sortheix, Chow, and Salmela-Aro (2015) have used Kristof-Brown et al.'s Person-Job Fit scale as an outcome measure in their longitudinal study on work values and the transition to work life. Our study adds to this research by showing the positive connection between virtual community trust and work engagement to person-job fit. Finally, Christian, Garza, and Slaughter (2011) have suggested that engaged workers may develop a stronger sense of fit to the job or to the environment. Our study confirms this suggestion by showing a positive effect of work engagement on person-job fit.

Dedicated and reliable contractors are the most important asset when digital work platform providers build their competitive advantage. Our study adds to previous studies as it shows a significant positive relationship between virtual community trust and work engagement as well as between virtual community trust and person-job fit.

Person-job fit and task-technology fit are complementary concepts that measure effectiveness in work conditions which further lead to better work performance. The role of task-technology fit in knowledge creation has earlier been discussed by Wu, Kao and Shih (2018). This study adds to previous research by showing the positive connection between trust and person-job fit. It can be argued that the importance of both types of fit becomes crucial in the context of digital work platforms where task-technology fit is needed for effective working (Wu et al., 2018) and person-job fit for task performance (Chi and Pan, 2012).

The present study contributes to the research literature on work engagement and corroborates the positive relationship between work engagement and person-job fit also in the digital work platform context, which is shaped by an increase of autonomy and temporariness. It can be argued that the role of person-job fit is intensified in the context of temporary contracting on digital work platforms as the roles of person-organization fit and person-supervisor fit are less relevant in this work context. The positive relationship between work engagement and person-job fit has to our knowledge previously been established only in traditional organizational settings.

5.2 Managerial contribution

For digital work platform provides, building a virtual community where independent contractors feel safe to contribute is of crucial importance. Our study indicates that digital work platform providers need

to be aware of the challenges and possibilities in building trust in their virtual communities, and assist in its creation as it leads to positive performance results, such as work engagement and person-job fit. Significant elements in trust building are for example truthfulness and fairness in operational issues and always acting in the best interests of members contributing to the digital work platform functions.

5.3 Limitations and future research directions

As with all studies, also this study has some limitations. The measure used for virtual community trust (Usoro et al., 2007) has been developed to study trust in e-commerce and adapted to knowledge sharing in an intra-organizational virtual community. However, we further adapted the items to suit our study context and tested them with study subjects.

We also need more understanding on the relationship between nature of work and personal abilities, that is between job characteristics and personal characteristics (Resick et al., 2007), in the context of digital platform work. Past research on the relationship between trust and work engagement suggests it may be mutually reinforcing (Chughtai and Buckley, 2008; Agarwal, 2014). Our study was cross-sectional so we can only show their positive relationship and suggest that further longitudinal studies would be needed to judge their causality.

It seems that research on independent knowledge work is scarce, and we suggest placing more emphasis on research in various forms of contemporary knowledge work. Goodhue (1998) has earlier used task-technology fit to explain how technology leads to individuals' positive performance impacts. In the future, it would be interesting to study task-technology fit's (Goodhue and Thompson, 1995) explanatory power on work engagement among knowledge workers in the digital work platform context. Finally, studying differences between freelancers carrying out autonomous or interdependent work tasks and comparing the antecedents leading to their work engagement would be another interesting research idea.

6. Conclusions

Our analyses indicate that the model fit statistics are at a convincing level and that all three relationships tested are statistically significant and positive. There seems to be evidence of the importance of both virtual community trust and work engagement to person-job fit in the context of virtual knowledge work. This indicates that also in virtual knowledge work the effect of trust to person-job fit and both the direct and the indirect effect of work engagement on person-job fit are crucial. The implications of our research findings emphasize the importance of trust in the development of both work engagement and person-job

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atforms. fit. In addition, work engagement further strengthens this relationship. Based on our research we recommend that Usoro et al.'s (2007) Virtual community trust measure can be used in further studies on freelancing. We believe that researchers on trust have an opportunity to contribute to the research and practice of the changing nature of knowledge work and its new forms of organizing such as freelancing on digital work platforms.

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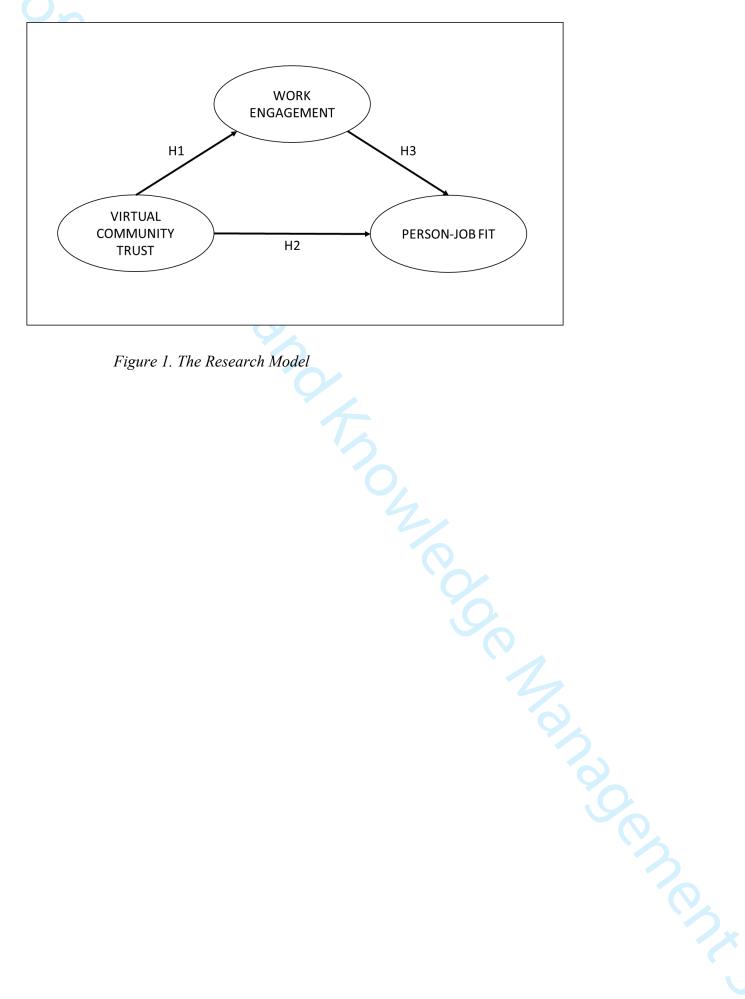


Figure 1. The Research Model

Table 1
Results of the confirmatory factor analysis

Mean deviation loading CR AVI	Mean deviation loading CR A		·		Std.	Std.		
At my work, I feel bursting with energy. 5,228 1,170 0,810 0,891 0,800 At my job, I feel strong and vigorous. 5,496 1,112 0,976 Dedication I am enthusiastic about my job. 5,953 1,022 0,839 0,767 0,622 I am proud of the work that I do. 6,173 0,969 0,736 Absorption I am immersed in my work. 5,409 1,243 0,985 0,818 0,700 I get carried away when I'm working. 5,425 1,294 0,655 Person-job fit To what extent does your work fit with your 5,535 1,332 0,839 0,928 0,760 expectations? does your work suit you? 5,701 1,323 0,841 does your work enable you to work in 5,512 1,309 0,902 assignments you want to work in? does doing your work match your career plans? 5,433 1,472 0,907 Virtual community trust Trequired help, the community would 6,221 1,362 0,880 0,913 0,770 act in my best interest. If I required help, the community would do its best to help me. The community is interested in my well-being, not just its own. 1 would characterize the community as honest. 5,472 1,233 0,924 0,950 0,860 The community is genuine and sincere. 4,409 1,230 0,950 Competence The community is genuine and effective source 5,504 1,362 0,967 0,933 0,820 The community is a competent and effective source 5,504 1,362 0,967 0,933 0,820 The community performs its role of sharing 5,457 1,457 0,867	At my work, I feel bursting with energy. 5,228 1,170 0,810 0,891 0,4 At my job, I feel strong and vigorous. 5,496 1,112 0,976 0,000 I am enthusiastic about my job. 5,953 1,022 0,839 0,767 0,000 I am proud of the work that I do. 6,173 0,969 0,736 0,000 Absorption I am immersed in my work. 5,409 1,243 0,985 0,818 0,000 I get carried away when I'm working. 5,425 1,294 0,655 0,655 Person-job fit			Mean			CR	AVE
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Tam proud of the work that I do.	Tam proud of the work that I do.		At my job, I feel strong and vigorous.	5,496	1,112	0,976		
Absorption I am immersed in my work. I get carried away when I'm working. I get carried away when I'm work fit with your career plans? I get carried away when I'm work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work match your career plans? I get carried away work match your career plans? I get carried away work match your career plans? I get carried away work match your career plans? I get carried away work match your career plans? I get carried away work match your career plans? I get carried away work match your career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to work in career plans? I get carried away work enable you to wor	Absorption I am immersed in my work. I get carried away when I'm working. I get carried away when I'm work in what extent does your work fit with your I get carried away when I'm work in what is saignments you want to work in I get carried away work enable you to work	Dedication	I am enthusiastic about my job.	5,953	1,022	0,839	0,767	0,623
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in general, the community is very knowledgedole.	in general, the community is very knowledgedote.		The community performs its role of sharing			0,884		
Model fit: χ2 = 191.66, df = 131, RMSEA = 0.061, NFI = 0.955, NNFI = 0.973	Model fit: χ2 = 191.66, df = 131, RMSEA = 0.061, NFI = 0.955, NNFI = 0.973		In general, the community is very knowledgeable.	5,457	1,457	0,867		
			Model fit: χ 2 = 191.66, df = 131, RMSEA = 0.061	, NFI = 0.9	955, NNFI =	0.973		

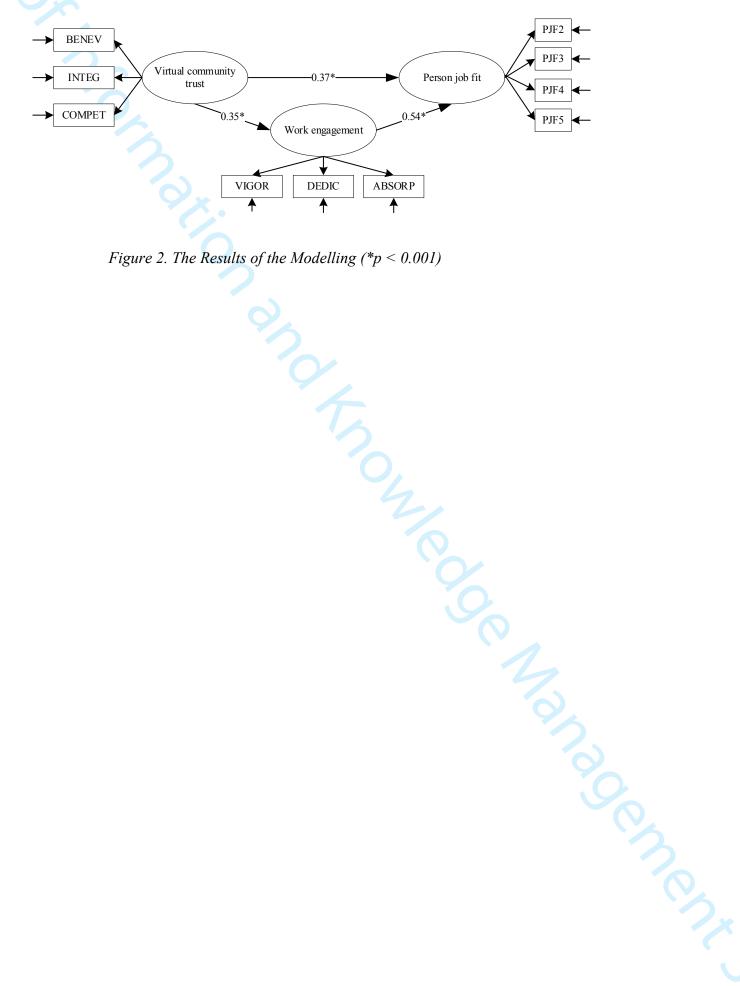


Figure 2. The Results of the Modelling (*p < 0.001)

Appendix 1

Virtual community trust (Usoro et al., 2007)

- benevolence
- Integrity
- Ability
- How would you describe your beliefs about the XYZ community?
- I believe that XYZ's virtual community would act in my best interest.
- If I required help, the community would do its best to help me.
- The community is interested in my well-being, not just its own.
- The community is truthful in its dealings with me.
- I would characterise the community as honest.
- The community would keep its commitments.
- The community is genuine and sincere.
- The community is a competent and effective source of expertise.
- The community performs its role of sharing knowledge very well.
- Overall, the community is a capable and proficient source of expertise and knowledge.
- In general, the community is very knowledgeable.
- I trust the community when I ask them not to forward or share any sensitive material.

Work engagement (Schaufeli et al., 2006)

- At my work, I feel bursting with energy.
- At my job, I feel strong and vigorous.
- I am enthusiastic about my job.
- My job inspires me.
- When I get up in the morning, I feel like going to work.
- I feel happy when I am working intensely.
- I am proud of the work that I do.
- I am immersed in my work.
- I get carried away when I'm working.

Person-job fit (Kristof-Brown et al., 2005)

- To what extent do your knowledge, skills and abilities match the requirements of working in the XYZ's projects?
- To what extent does working in the XYZ's *projects fit with your expectations?*
- To what extent does working in the XYZ's projects suit you?
- To what extent does working in the XYZ's projects enable you to work in assignments you want to work in?
- To what extent does working in the XYZ's projects match your future career plans?