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Impact of BYOD on organizational commitment: an empirical investigation

Impact of
BYOD

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Abstract

Purpose – Bring your own device (BYOD) refers to employees utilizing their personal mobile devices to perform work tasks. Drawing on the job demands-resources (JD-R) model and the task-technology fit (TTF) model, the purpose of this paper is to develop a model that explains how BYOD affects employee well-being (through job satisfaction), job performance self-assessment, and organizational commitment through perceived job autonomy, perceived workload and TTF.

Design/methodology/approach – Survey data from 400 full-time employees in different industry sectors in Mauritius were used to test a model containing 13 hypotheses using confirmatory factor analysis and structural equation modeling.

Findings – The SEM results support the hypothesized model. Findings indicate that BYOD indirectly affects job satisfaction, job performance and organizational commitment via job demands (perceived workload), job resources (perceived job autonomy) and TTF. Further, job resources influences job demands while TTF predicted job performance. Finally, job satisfaction and job performance self-assessment appear to be significant determinants of organizational commitment.

Practical implications – The findings are congruent with the JD-R and TTF models, and confirm that BYOD has an impact on job satisfaction, job performance self-assessment and organizational commitment. This could inform organizations' policies and practices relating to BYOD, leading to improved employee well-being, performance and higher commitment.

Originality/value – The expanded model developed in this study explains how employee well-being, performance and organizational commitment are affected by BYOD, and is one of the first studies to investigate these relationships.

Keywords Job satisfaction, Work performance, Task-technology fit, IT innovation, Organizational commitment, Workload, Job autonomy

Paper type Research paper

1. Introduction

In the past two decades the IT industry has increasingly focused on customers, and the drive is now more toward a consumer-driven bottom-up approach as compared to the traditional top-down IT innovation (Leclercq-Vandelannoitte, 2015; Weeger *et al.*, 2015). The availability of consumer tools such as mobile devices and tablet computers and the significant drop in prices for facilities such as voice/data communication provided by mobile networks has led to the widespread diffusion of mobile devices for personal usage. Consequently, individuals are more and more accustomed to the convenience and benefits obtained from the use of personal mobile devices to such an extent that they are willing to bring privately owned devices into their professional spheres to fulfill business tasks, thus giving rise to the bring your own device (BYOD) trend (Köffer *et al.*, 2014). Harris *et al.* (2012) cite statistics that as early as 2011, 23 percent of employees were already routinely using BYOD, and a further 29 percent at least once a week, and at approximately the same time 77 percent of CIOs had plans to provide employees with mobile access to company data and applications (Disterer and Kleiner, 2013). BYOD uptake by organizations has been reportedly as high as 80 percent in



various countries (Spain, Brazil, Malaysia and Singapore), and 85 percent of individuals in Malaysia also reportedly use personal devices in the workplace (Eslahi *et al.*, 2014).

This is at least partly because users are more comfortable and familiar with their consumer tools and increasingly wish to use these in their professional environment so that their daily work tasks are completed more rapidly and efficiently (Steelman *et al.*, 2016). The demand for utilizing privately owned technologies in their corporate environment is expected to rise in the future as individuals are encouraged more and more to use their personal devices in their professional spheres (Weeger *et al.*, 2015).

Although there is strong demand from employees to be able to bring their own devices into the workplace, BYOD is not without risk (Harris *et al.*, 2012), with some referring to BYOD as “Bring Your Own Danger” and even predicting “IT anarchy” (Disterer and Kleiner, 2013). The area of risk that has perhaps received the greatest attention is security (Niehaves *et al.*, 2012; Disterer and Kleiner, 2013). BYOD can pose a threat to the confidentiality, integrity and authenticity of the organization’s data (Disterer and Kleiner, 2013) and although these threats are recognized by organizations they are often not recognized or responded to by end-users (Seigneur *et al.*, 2013), and organizations sometimes struggle to establish effective guidelines for BYOD security (Niehaves *et al.*, 2012).

In addition to security risks, BYOD can also pose legal and regulatory challenges. Inevitably there will be different rules in different countries or jurisdictions (Harris *et al.*, 2012), in particular in relation to aspects such as privacy and data protection requirements, and this may pose compliance challenges when using BYOD. BYOD can even pose technical challenges such as reliability and performance, and also pose challenges to data accuracy (Harris *et al.*, 2012), such as when data stored on mobile devices becomes out-of-date due to intermittent mobile connectivity (Weiß and Leimeister, 2012).

Nevertheless, the risks posed by BYOD can be mitigated by finding a “manageable compromise” between authoritarian and laissez-faire approaches (Harris *et al.*, 2012). Firms are therefore increasingly allowing their employees to use their privately owned technologies to perform their business activities and due to the rapid growth of reliable mobile technologies (Chou *et al.*, 2017), BYOD has become a feasible strategy to promote employees’ well-being in the workplace.

Although the BYOD trend continues to grow in popularity and has been frequently discussed in practice, little scientific research has been conducted into the phenomenon (Köffer *et al.*, 2014; Weeger *et al.*, 2015). Few insights have been provided into the consequences of BYOD adoption, particularly its impact on work performance, and prior information systems (IS) research has not had much focus on theory development (Niehaves *et al.*, 2012). Indeed BYOD demands further extensive work (Niehaves *et al.*, 2012; Köffer *et al.*, 2014), including empirically examining the consequences of BYOD adoption (Weeger *et al.*, 2015). We note a rare exception to date is Giddens and Tripp’s proposed theoretical model to examine the effect of BYOD on job satisfaction and job performance based on the social cognitive theory and the job characteristics model; however this model was not empirically tested. In addition, Niehaves *et al.* (2012), Niehaves *et al.* (2013) proposed a model based on qualitative findings to test the effect of BYOD on job performance by utilizing the cognitive model of stress and the self-determination theory and affirmed that perceived competence, increased perceived workload and perceived autonomy all affect the impact that BYOD has on employees. These authors suggested that their framework is open to extension and that the effect of BYOD on job performance has not been treated exhaustively. They also proposed that further work should be done on the effects of BYOD to determine if employees are more productive (Köffer *et al.*, 2014; Ortbach, 2015).

In addition, for decades, ongoing debates have focused on the question: What appropriate information technology should an organization utilize to maximize performance? Organizations sometimes do not consider which IT would be more effective

and result in greater job performance and satisfaction of their employees (Köffer *et al.*, 2014). These debates revolve around who should decide about the selection, adoption and usage of the IT tools to be used within the organizations: the IT department, or the users who are nearer to the problems (Brown and Grant, 2005).

To respond to these calls for further research from the IS field, researchers are encouraged to investigate the consequences of BYOD adoption. Therefore, this paper provides insights into the impact of BYOD on job satisfaction, job performance and organizational commitment. To the authors' knowledge, organizational commitment has not been examined in prior BYOD research and no prior model has incorporated these constructs in an integrated theoretical framework to determine the impact that BYOD has on these outcomes. Moreover, an issue of growing prominence in contemporary organizations is the need to have a motivated, inspired, satisfied and committed workforce who are able to go "the extra mile" (Bakker and Demerouti, 2008). For this reason, the study of employee well-being (through job satisfaction), performance and commitment has become extremely pertinent among practitioners and researchers. By examining the consequences of BYOD adoption, this study contributes to the limited literature on this phenomenon and provides deeper insights into the factors enabling employees to flourish at work, both theoretically and empirically.

Unlike prior BYOD studies, this study utilizes the job demands-resources (JD-R) model and task-technology fit (TTF) theory as its theoretical lenses; the relevance of these theoretical frameworks to the impact of BYOD on employees' organizational commitment is explained in the following section.

2. Theoretical foundation

Job demands-resources theory

The JD-R model Demerouti *et al.* (2001) has recently gained popularity among researchers and is a comprehensive and parsimonious model for exploring and conceptualizing occupational well-being, engagement, and burnout (Schaufeli and Bakker, 2004). Bakker and Demerouti (2007) claim that the JD-R model offers a flexible approach since the model can be applied to any work environment and can also be tailored for any specific occupation. Although every profession may have its own job characteristics, the assumption lying at the heart of the JD-R model is that these job features are classified into two general categories: job demands and job resources (Bakker *et al.*, 2003, 2007, 2010; Bakker and Demerouti, 2014; Boyd *et al.*, 2011; Clausen and Borg, 2011; Demerouti *et al.*, 2001; Langelaan *et al.*, 2006; Schaufeli and Bakker, 2004; Xanthopoulou *et al.*, 2007; McGregor *et al.*, 2016).

Job demands are those social, organizational, physical or psychological aspects of the job which demand constant mental or physical effort and are consequently related to certain physiological or psychological costs (Demerouti *et al.*, 2001). Examples include job insecurity, high work pressure, work overload, interpersonal conflict, heavy lifting and emotionally demanding interactions with clients. Additional effort is required to achieve work objectives and avoid decreasing performance in the event that job demands are high (Schaufeli and Taris, 2014), and as a result, psychological and physical costs including irritability and fatigue are likely to arise. Employees are therefore advised to conduct less demanding tasks, take breaks or switch tasks in order to recover from mobilizing this additional effort.

In contrast, job resources are those physical, psychological, social, or organizational aspects of the job which help to fulfill these three functions: achieving work goals; encouraging personal development, learning and growth; and reducing job demands and their associated psychological and physiological costs. Job resources are found at the organizational level, the social relation and interpersonal level, and finally at the task level (Bakker and Demerouti, 2007), and include examples such as social support, feedback, job control and job autonomy. Job resources are also significant in other ways beside helping to

reduce work demands as they are considered to be the means for achieving or protecting other valued resources such as organizational commitment (Bakker and Demerouti, 2007; Bakker *et al.*, 2010; Boyd *et al.*, 2011). This is congruent with the job characteristics model proposed by Hackman and Oldham (1980) which emphasizes that job resources such as task significance, feedback and job autonomy promote work-related motivation and satisfaction at the task level.

Indeed, Bakker and Demerouti (2014) argue that it is possible to predict, explain and understand employee well-being and job performance through JD-R, and that the JD-R model has matured into a theory due to its utilization in several studies, new propositions and numerous meta-analyses.

Another premise of the JD-R theory is that the two categories of job features, job resources and job demands, trigger two independent processes, namely motivation and health. Being motivational in nature, job resources lead to work enjoyment, low cynicism, high work engagement and excellent performance. Bakker and Demerouti (2007) also emphasized on the motivational (intrinsic and extrinsic) nature of job resources where an intrinsic motivational role fosters employees' development, growth and learning while an extrinsic motivational role helps in attaining work objectives. In addition, job resources satisfy basic human needs including competence, autonomy and relatedness (Deci and Ryan, 1985). On the other hand, job demands are usually the greatest key predictors of repetitive strain injury, exhaustion, psychosomatic health complaints and many other health problems. This is mainly due to jobs being poorly designed or chronic job demands such as work overload and emotional demands (Demerouti *et al.*, 2001).

In this study, the job demand "perceived workload" and the job resource "perceived job autonomy" are included in the theoretical model as they are both relevant to BYOD. It is proposed that the job resource "perceived job autonomy" interacts with the job demand "perceived workload" in predicting positive work outcomes such as job satisfaction, job performance self-assessment and organizational commitment. The current study utilizes a heterogeneous sample and hypothesizes that perceived workload predicts job performance self-assessment, perceived job autonomy predicts employee well-being (through job satisfaction), job performance self-assessment and organizational commitment. Finally, it should also be noted that the present study does not consider negative outcomes like burnout, disengagement, exhaustion, among others as the focus is on positive work outcomes. This is congruent with other studies which also applied only job characteristics and work engagement (Bakker *et al.*, 2007; Hakanen *et al.*, 2005).

Task-technology fit model (TTFM)

The TTFM holds that a technology will impact positively on performance when its functions are matched with the requirements of the task (Goodhue and Thompson, 1995). This theory states that users must willingly accept and use the technology, that there must be a good fit between the task and the technology, and also between the users and the technology (Lee *et al.*, 2007; Tarhini *et al.*, 2016).

The TTFM consists of four key dimensions: technology features, task features, TTF and the impacts on performance. The first two constructs, technology features and task features, together affect the third dimension, TTF. This in turn has an impact on the outcome, that is, either performance or utilization. Technology features relate to features of the devices or tools which individuals use to perform their tasks and in the IS field, technology implies all the hardware, software, data resources, and any other support facilities such as help-lines and training which support people in doing their work (Goodhue and Thompson, 1995). The second attribute, tasks, refers to the activities of converting inputs into outputs by people so that they can satisfy their information needs. Finally, the main construct of the TTFM is the TTF. Goodhue and Thompson (1995, p. 216)

define TTF as “the degree to which a technology assists an individual in performing his or her portfolio of tasks.” The core of this construct is that IS will only have a positive impact on individual performance if the technology used effectively supports the work requirements (Taegoo *et al.*, 2010).

Goodhue and Thompson (1995) have used this model to analyze and explain the success of IS and its impact on individual performance, and proposed a model known as the technology-to-performance chain in which dimensions such as tasks, users and IT explain the IS use and performance of individuals. Several IS studies have demonstrated the usefulness of this model from various perspectives including studies of improved user utilization (Venkatesh *et al.*, 2003; Kim and Malhotra, 2005), and improved performance (Carswell *et al.*, 2000; Goodhue *et al.*, 2000).

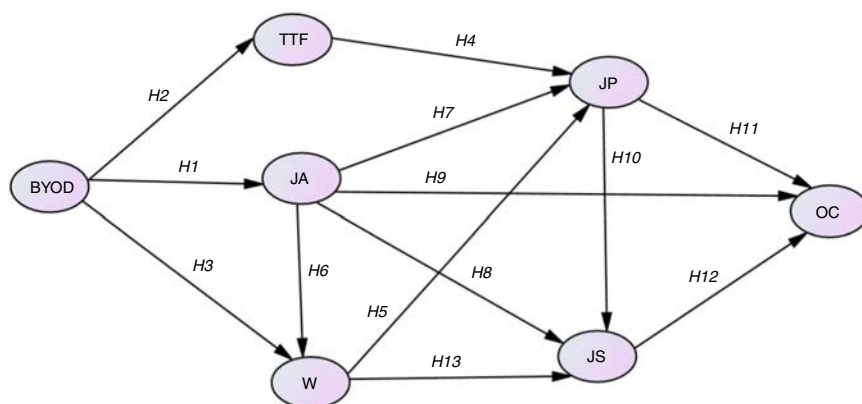
The research model in the present study includes the TTF construct. Empirical evidence demonstrates that people will only accept and use technology if it fits their needs and subsequently, improves their performance (Junglas and Watson, 2008; Gebauer and Ginsburg, 2009). Users will complete their business tasks by utilizing their privately owned technologies only if these fit their needs. Hence, in addition to the JD-R model, the TTFM is also adopted in this study since this theory is a powerful model that helps to understand the adoption of an innovative information technology in a specific context (Benbasat and Barki, 2007).

3. Research model and hypotheses

Figure 1 presents the research model, which theorizes that BYOD leads to increases in perceived job autonomy, perceived workload and improved TTF, resulting in increased job performance self-assessment, job satisfaction and organizational commitment.

BYOD adoption: relationships with perceived job autonomy, task-technology fit ask-technology fit and perceived workload

BYOD refers to the use of personal laptops, smartphones, tablets and any other private tool to conduct work-related activities (Niehaves *et al.*, 2013). Also known as IT consumerization (Köffer *et al.*, 2014) and “Consumer IT used as corporate IT” (Hudson and Grant, 2013), BYOD is the adoption and use of private consumer technologies and applications in the workplace. For the purpose of this study, BYOD is defined as privately owned consumer technologies, including laptops, smartphones, tablets and other devices, and their associated



Notes: BYOD, Bring your own device; TTF, task-technology fit; JA, perceived job autonomy; W, perceived workload; JS, job satisfaction; JP, job performance self-assessment; OC, organizational commitment

Figure 1.
The research model.

software, which is co-used for work-related purposes. This phenomenon has been discussed over several years (Moschella *et al.*, 2004) and is considered to be a highly significant topic in practice (Niehaves *et al.*, 2012; Köffer *et al.*, 2014; Ortbach, 2015), thus causing a remarkable impact on how work is conducted. It has also gained much popularity in both academic as well as practitioner fields (Niehaves *et al.*, 2012, 2013; Ortbach *et al.*, 2013, 2014; Köffer *et al.*, 2014; Ortbach, 2015).

Perceived job autonomy refers to “the degree to which a worker has control over how and when work is done” DeVaro *et al.* (2007, p. 992). Morris and Venkatesh (2010) suggested that technology usage has an impact on employees’ autonomy, and is likely that workers who are given the freedom to choose the tools they use for work purposes themselves would perceive a greater sense of autonomy than workers who are not given this choice, and indeed Niehaves *et al.* (2012, 2013) found that employees feel a greater sense of autonomy when utilizing their personal devices for work purposes. Similarly (Harris *et al.*, 2012) report that employees value the independence that comes from being able to choose their own tools. Therefore, the following hypothesis is proposed:

H1. BYOD is positively associated with perceived job autonomy.

Goodhue and Thompson (1995) argue that people complete tasks more effectively when the technology used is willingly accepted and fits well with the users and the assigned tasks. The TTF construct refers to the relationship between the abilities of the individual, the requirements of the tasks, and the functions of the device and its software. Employees are more likely to use their own device to complete work-related tasks if they believe that there is a better fit between their chosen device, the work to be completed and their skills. Hence, the following hypothesis is developed:

H2. BYOD is positively associated with TTF.

Lee and Ashforth (1996) describe perceived workload as the perceived pressure that an employee experiences while completing work tasks and consider it as one of the key demands of work. Niehaves *et al.* (2012, 2013) reported that employees perceive that they have more work to do when using their personal devices for work purposes. Hence, the following hypothesis is proposed:

H3. BYOD is positively associated with perceived workload.

According to Goodhue and Thompson (1995), an individual will perform better if there is a high level of TTF and if the person is satisfied with the technology. Indeed, a good fit between the technology, the task, and the user promotes users’ willingness to use that technology to enhance their work performance (Lee *et al.*, 2007). In this study, employees’ adoption of BYOD implies a good TTF, thus leading to their readiness to use their devices for better work performance, which is congruent with prior research (Junglas and Watson, 2008; Gebauer and Ginsburg, 2009). Hence, the following hypothesis is proposed:

H4. TTF is positively associated with job performance self-assessment.

Perceived workload and job performance

Job performance is conceptualized as an individual’s controlled behaviors and actions which help in contributing toward the objectives of the organization (Rotundo and Sackett, 2002). Motowildo *et al.* (1997, p. 72) define performance as the “behavior with an evaluative component, behavior that can be evaluated as positive or negative for individual or organizational effectiveness.” For the purpose of this study, job performance is defined as an employee’s perception of the quality of work, effectiveness and overall work conducted. Bakker *et al.* (2004) reported that increased perceived workload can lead to greater job

performance, a relationship which has also been identified qualitatively (Niehaves *et al.*, 2013). Based on this discussion, the following hypothesis is proposed:

H5. Perceived workload is positively associated with job performance self-assessment.

Perceived job autonomy and perceived workload

Being autonomous allows workers to be flexible with how, where and when they do their work, including working at times or in places they otherwise would not. Facilitating workers to continue working after hours, at home or “on the road,” could increase their perceptions of their workload (and indeed the amount of work they actually complete). This reasoning is consistent with (Moore, 2000), who found a significant correlation between autonomy and perceived workload, and with (Ahuja *et al.*, 2007) who found that more autonomy was associated with a lower perception of being overworked. This is consistent with the JD-R’s central theory that job resources such as autonomy help workers manage the demands of their job, and hence in this study the following hypothesis is developed:

H6. Perceived job autonomy is positively associated with perceived workload.

Perceived job autonomy and job performance

Employees with a high sense of autonomy will experience higher job satisfaction and will perform better in their work-related tasks while those with a low sense of autonomy will experience poorer performance and are more prone to work exhaustion (Hackman and Oldham, 1980). The JD-R model also contends that job autonomy can lead to greater job performance when employees are given freedom and independence in how they conduct their work (Bakker *et al.*, 2004). However, there are mixed findings in the literature relating to the relationship between job autonomy and behavioral responses such as work performance (DeVaro *et al.*, 2007; Hackman and Oldham, 1976; Hackman *et al.*, 1978; Kemp and Cook, 1983; Parker *et al.*, 2001; Umstot *et al.*, 1976). In their findings, Dodd and Ganster (1996), Shirom *et al.* (2006) reported that those who have the freedom and independence to conduct their work are more likely to benefit from greater job performance. Therefore, based on the preceding empirical and theoretical discussion, the following hypothesis is proposed:

H7. Perceived job autonomy is positively associated with job performance self-assessment.

Perceived job autonomy and job satisfaction

In contrast to the inconsistent results between job autonomy and job performance, the literature has consistent support for the relationship between job autonomy and employees’ job satisfaction (Becherer *et al.*, 1982; Teas, 1981; Dubinsky and Skinner, 1984; Hackman and Oldham, 1976; DeVaro *et al.*, 2007). The JD-R model also predicts that employees derive higher job satisfaction when they are autonomous and can make their own decisions about how to go about with their work (Yeh, 2015; DeVaro *et al.*, 2007; Dodd and Ganster, 1996; Schulz *et al.*, 1995; Spector, 1986; Chen, 2008). Therefore, the following hypothesis is proposed:

H8. Perceived job autonomy is positively associated with job satisfaction.

Perceived job autonomy and organizational commitment

Organizational commitment is another construct which has gained a lot of attention in organizational research due to its relationship with work outcomes such as job performance, job satisfaction, work motivation, job involvement and turnover, among others

(Michaels and Spector, 1982; Farrell and Stamm, 1988; Mathieu and Zajac, 1990; Tett and Meyer, 1993; Eby *et al.*, 1999). Organizational commitment refers to the extent to which a person identifies himself with and is engaged in the organization (Mowday *et al.*, 1982), and has three dimensions: normative commitment (when employees strongly believe and accept the goals and values of the organization), affective commitment (when employees agree to put in effort on behalf of their organization); and continuance commitment (when employees strongly aspire to remain part of the organization) (Mowday *et al.*, 1979). Employees with a strong affective commitment have a strong emotional attachment to their organizations (Allen and Meyer, 1990; Klein *et al.*, 2012), and this is the most relevant dimension of organizational commitment in the context of the present study. The JD-R model postulates that job autonomy is likely to influence employees' commitment toward their organization (Bakker *et al.*, 2003; Bakker *et al.*, 2010), and there is support in the literature for the positive relationship between job autonomy and organizational commitment (Eby *et al.*, 1999; Wall *et al.*, 1986; Ahuja *et al.*, 2006; Spector, 1986; Park and Searcy, 2012). Based on this discussion, the following hypothesis is proposed:

H9. Perceived job autonomy is positively associated with organizational commitment.

Job performance and job satisfaction

Lawler and Porter (1967) conclude that performance has a causal impact on satisfaction due to the intrinsic and extrinsic rewards that come from high performance, and that intrinsic rewards themselves are often overlooked despite the fact that, often, "good performance is rewarding in and of itself." In other words, good performance can be intrinsically satisfying. The theory that performance leads to satisfaction has also been supported in many other studies, including Locke (1970), Siegel and Bowen (1971), Bagozzi (1980), Stumpf and Hartman (1984), Darden *et al.* (1989) and MacKenzie *et al.* (1998).

It is noted that the relationship between job performance and job satisfaction has been extensively investigated in a great many studies since at least the 1950s and has sometimes been described as the "Holy Grail" of industrial psychology (Judge *et al.*, 2001). However, on the basis of the evidence above we predict a causal relationship from performance to satisfaction, as in the following equation:

H10. Job performance self-assessment is positively associated with job satisfaction.

Job performance and organizational commitment

Employees feel more committed toward their organization when they perform well in their job. The flexibility of the JD-R theory lends it to investigating questions relating to employees' well-being as well as factors such as job performance and organizational commitment (Bakker and Demerouti, 2014; Bakker and Demerouti, 2007). In the current study, the JD-R model has been applied to incorporate organizational commitment as the dependent variable. Based on this discussion, the following hypothesis is developed:

H11. Job performance self-assessment is positively associated with organizational commitment.

Job satisfaction and organizational commitment

Employees feel more committed toward their organization when they are satisfied with their job (Iverson and Roy, 1994; Wallace, 1995; Gaertner, 2000; Petrides and Faunham, 2006; Naderi Anari, 2012; Fu and Deshpande, 2014), and hence, the following hypothesis is proposed:

H12. Job satisfaction is positively associated with organizational commitment.

Perceived workload and job satisfaction

According to Kunte *et al.* (2017), work overload is an antecedent of job dissatisfaction. De Cuyper and De Witte (2006) and Kunte *et al.* (2017) argue that it is rather surprising that not enough empirical work has been carried out to investigate the causal relationship between work overload and job satisfaction. Therefore, in response to this shortage of empirical studies, the present study examines the role of not only job resources (job autonomy) but also perceived workload (job demands) in explaining its relationship with job satisfaction. Accordingly, the following hypothesis is proposed:

H13. Perceived workload is negatively associated with job satisfaction.

4. Research methodology

Sample and procedure

The present study employed a quantitative research approach to test the proposed research model. Data collection targeted full-time knowledge workers in Mauritian enterprises. Respondents were asked to complete a survey questionnaire and participation was voluntary. Participants were briefed on the aim of this study and on average, each one took around 10 min to complete the questionnaire. In total, 402 responses were obtained and two invalid questionnaires were excluded from the analysis because they contained missing responses, so to avoid biased statistical results, these were eliminated for further analysis. Consequently, the final sample contained 400 respondents, thus satisfying the minimum sample requirement of 200 which is recommended for the effective use of structural equation modeling (SEM) (Anderson and Gerbing, 1988). As shown in Table I, the gender split was 51.3 percent males and 48.3 percent females, with age range varied from 15 to above 65 years old. The sample was dominated by respondents from medium enterprises (43.8 percent), followed by those in small enterprises (38.3 percent), and finally by large enterprises (18 percent).

Measurement of constructs

All measurement items for the current study were adapted from prior empirical studies related to JD-R, TTF and BYOD in order to ensure the reliability and validity of those items. A seven-point Likert scale with “strongly disagree” at the low end and “strongly agree” at the high end of the scale was used to measure the items relating to each construct within the research model. BYOD was measured using three items borrowed from Köffer *et al.* (2015) where respondents

Demographics	Frequency	%
<i>Gender</i>		
Male	205	51.3
Female	193	48.3
<i>Age</i>		
15–24	79	19.8
25–34	148	37
35–44	108	27
45–54	31	7.8
55–64	26	6.5
65 years and above	4	1
<i>Type of organization</i>		
Small	153	38.3
Medium	175	43.8
Large	72	18

Table I.
Demographic profile

were asked about the extent to which they use their personal devices for work purposes on a scale where 1 represented “to the least extent possible” and 7 “to the greatest extent possible.” Four items to measure perceived job autonomy were adopted from McKnight *et al.* (2009), Morris and Venkatesh (2010) and Tripp *et al.* (2016) while three items were taken from Larsen *et al.* (2009) and Goodhue and Thompson (1995) to measure TTF. Perceived workload was measured by four items adopted from Bakker and Demerouti (2014). Job satisfaction was measured using three items borrowed from Keaveney and Nelson (1993), McKnight *et al.* (2009), Morris and Venkatesh (2010), Fast *et al.* (2014) and Tripp *et al.* (2016). In addition, four items were used to measure job performance and these were borrowed from Krishnan *et al.* (2002) and Lin and Huang (2008) while organizational commitment was measured using four items adopted from Ahuja and Thatcher (2005) and Tsui *et al.* (1997). Demographic aspects such as gender, age and type of organization were measured using nominal scales.

Prior to further study, we conducted a pilot test with 30 Mauritian knowledge-workers to modify and revise the indicators, in order to establish content validity and reliability. One of the BYOD indicators was modified based on the pilot-test results.

5. Analysis and findings

Data analysis

As recommended by Anderson and Gerbing (1988), this study employed a two-step method SEM approach. First, confirmatory factor analysis (CFA) with maximum likelihood estimation using AMOS version 22 was used to develop the measurement model. Second, in order to explore the causal relationships among the constructs, the structural model for the proposed model was tested using SEM.

The authors first evaluated and re-specified the measurement model so that further measurement examination could be carried out. All the unidimensional constructs were paired with one another and the initial CFA was run. This was done by checking if a particular measure has large standardized residuals, and subsequently, those items were dropped to check if this resulted in an improved model fit. This resulted in deletion of three items and the model was reevaluated. After running this process, the remaining items are presented in Table III.

Common method bias

Given that this study collected data through the same method, self-administered questionnaires, at a single point in time, common method variance may introduce bias to the relationships among the constructs which may be a concern for this study, thus affecting the empirical results (Podsakoff *et al.*, 2003). We subsequently employed the common latent factor approach to test for common method bias. A CFA was run with all the items presented in Table III, loading on a single common factor. This was followed by performing a χ^2 difference test to compare the results of the CFA for the proposed measurement model with the common factor model. The results indicated that the proposed measurement model ($\chi^2(299.44) = 126$, that is, 2.3 ($p < 0.001$); comparative fit index (CFI) = 0.96; goodness-of-fit index (GFI) = 0.93; Tucker-Lewis index (TLI) = 0.94; adjusted goodness-of-fit (AGFI) = 0.90; normed fit index (NFI) = 0.93; incremental fit index (IFI) = 0.96; root mean square error of approximation (RMSEA) = 0.05, standardized root mean square residuals (SRMR) = 0.04 and PCLOSE is 0.05) fits the data significantly better than the common factor model, therefore suggesting that common method bias was not a major issue in this study.

Results of the structural modeling analysis

Measurement model. In order to assess whether the theory presented fits the sample data, it is important to evaluate the model fit. The two most common ways to evaluate model fit

include first the χ^2 including its degrees of freedom and p -value, and second the fit indices (Kline, 2011). However, χ^2 has appeared to be problematic because it is sensitive to sample size (Anderson and Gerbing, 1988), therefore a range of other fit indices as proposed by Hair *et al.* (2010) have also been used in this study, including AGFI, CFI, GFI, TLI, NFI, IFI, RMSEA and SRMR. The standardized loadings for each construct used in the measurement model are illustrated in Table III. In addition, the values of the actual and recommended values of model fit indices for this study's measurement model are presented in Table II, and indicate that all the fit indices were within the recommended range.

There is no significant reason to examine and evaluate a structural model if the constructs of the measurement model are not reliable and valid (Bagozzi and Yi, 2012; Hair *et al.*, 2010), and thus the measurement model was evaluated for its validity and reliability. Reliability is usually assessed by examining indicator and composite reliability (Hair *et al.*, 2010; Bagozzi and Yi, 2012). According to Bagozzi and Yi (2012), there are no universally accepted cut-off values for assessing indicator reliability and composite reliability. Values between 0.60 and 0.70 in exploratory research are considered desirable for composite reliability while in advanced research, the values should fall between 0.70 and 0.90. An indicator that has a loading of 0.50 or above is considered reliable (Bagozzi and Yi, 2012). The results presented in Table III indicate that the measurement model is reliable.

In addition to reliability, it is also important to evaluate the model for its validity, which usually assesses both convergent and discriminant validity. Convergent validity is determined by analyzing the average variance extracted (AVE), which represents the amount of variance explained by an unobserved variable. The AVE value should be 0.50 or higher in order to achieve convergent validity. The details shown in Table III indicate that the AVE scores for all the constructs were higher than 0.50.

Finally, discriminant validity is measured by comparing the squared correlation for each pair of constructs against the AVE for each of those pair of constructs. Discriminant validity was achieved because the value obtained for the AVE for each construct was higher than the squared correlations between the construct and all the other constructs presented in the model. This means that the AVE was greater than the maximum shared variance (MSV) as indicated in Table IV (Chau, 1996).

Structural model. Once the measurement model was tested and proved to be valid, reliable, and have a good model fit, the proposed structural model presented in Figure 1 was tested and evaluated. The results of the structural model were very close to the measurement model and indicated that the model was a good fit to the data (Table II) and that the structural model was acceptable. We therefore proceeded with testing the hypothesized relationships of the proposed model.

Fit index	Recommended value ^a	Measurement model	Structural model
χ^2	NS at $p < 0.05$	299	305
df	n/a	126	129
χ^2/df	< 5, preferable < 3	2.3	2.3
CFI	> 0.90	0.96	0.96
GFI	> 0.90	0.93	0.93
TLI	> 0.90	0.94	0.94
AGFI	> 0.80	0.90	0.90
NFI	> 0.90	0.93	0.93
IFI	> 0.90	0.96	0.96
RMSEA	< 0.08	0.05	0.05
SRMR	< 0.10	0.04	0.04

Sources: ^aHu and Bentler (1999), Hair *et al.* (2010) and Kline (2011)

Table II.
Fit indices for the
measurement and
structural model

ITP

Constructs and Indicators	Standardized loadings	Composite reliability	AVE
<i>BYOD</i>		0.81	0.59
During a regular work week, to what extent do you use a desktop or laptop computer that you personally own for work purposes?	0.60		
During a regular work week, to what extent do you use a smartphone or tablet or any device that you personally own for work purposes?	0.84		
To what extent does your organization permit you to use personal devices at work?	0.83		
<i>Perceived job autonomy</i>		0.83	0.62
My job gives me opportunity for independence and freedom in how I work	0.80		
My job gives me a chance to use my personal initiative and judgment in carrying out my work	0.82		
My job permits me to decide on my own how to go about doing my work	0.74		
<i>Task-technology fit</i>		0.87	0.77
The technology I usually use at work is appropriate for the tasks I perform	0.84		
The technology I usually use at work fits with the way I work	0.92		
<i>Perceived workload</i>		0.76	0.53
I have to work very fast	0.62		
I have too much work to do	0.65		
My workload is high	0.88		
<i>Job satisfaction</i>		0.76	0.61
Compared to other jobs, I am content with my present job	0.81		
Generally speaking, I am satisfied with my job	0.75		
<i>Job performance self-assessment</i>		0.85	0.66
I am among the best in the company in terms of the quality of my performance	0.78		
I am among the best in the company in terms of my effectiveness	0.89		
I am among the best in the company in terms of my overall performance	0.75		
<i>Organizational commitment</i>		0.83	0.62
I show by my actions that I really care about the fate of this organization	0.77		
For me, this is the best of all possible organizations for which I work	0.77		
I am extremely glad to have chosen this organization to work for over other organizations	0.82		

Table III.
Measurement model properties

	AVE	MSV	JA	BYOD	W	JP	JS	OC
JA	0.622	0.598	0.789					
BYOD	0.586	0.292	0.507	0.765				
W	0.525	0.417	0.456	0.368	0.724			
JP	0.656	0.464	0.601	0.447	0.578	0.810		
JS	0.611	0.598	0.773	0.435	0.387	0.567	0.782	
OC	0.620	0.533	0.690	0.455	0.556	0.681	0.730	0.787
TTF	0.772	0.546	0.739	0.540	0.646	0.636	0.635	0.713

Table IV.
Discriminant validity results

Notes: BYOD, Bring your own device; TTF, task-technology fit; JA, perceived job autonomy; W, perceived workload; JS, job satisfaction; JP, job performance self-assessment; OC, organizational commitment

The study developed a model containing the 13 hypotheses discussed above, which were tested using data collected from Mauritian employees. Findings provided support for 12 of the 13 proposed hypotheses as indicated in Figure 2, and the model explained 65 percent of the variance in organizational commitment.

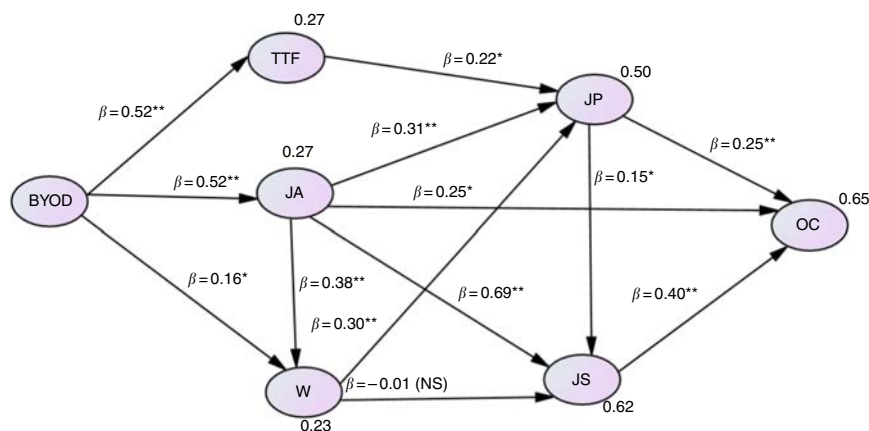


Figure 2.
Structural equation
model with
 β coefficients
and R^2 values

Notes: BYOD, Bring your own device; TTF, task-technology fit; JA, perceived job autonomy; W, perceived workload; JS, job satisfaction; JP, job performance self-assessment; OC, organizational commitment; NS, statistically non-significant. * $p < 0.01$; ** $p < 0.001$

As shown in Table V, the results of the path coefficient indicated that 12 of the 13 hypotheses were supported. More specifically, BYOD was found to have a significant positive influence on perceived job autonomy ($\beta = 0.52, p < 0.001, t = 8.20$), TTF ($\beta = 0.52, p < 0.001, t = 8.47$) and perceived workload ($\beta = 0.16, p < 0.01, t = 2.50$), thus supporting *H1-H3*. TTF ($\beta = 0.22, p < 0.01, t = 2.21$), JA ($\beta = 0.38, p < 0.001, t = 4.95$) and W ($\beta = 0.30, p < 0.001, t = 4.09$) in turn had a significant positive relationship with JP, while JA had a significant positive influence on W ($\beta = 0.38, p < 0.001, t = 4.95$), JP ($\beta = 0.31, p < 0.001, t = 3.74$), JS ($\beta = 0.68, p < 0.001, t = 9.26$) and OC ($\beta = 0.25, p < 0.01, t = 2.95$). These results donate support to *H4-H9*. JP in turn positively influenced JS ($\beta = 0.15, p < 0.01, t = 2.03$) and OC ($\beta = 0.25, p < 0.001, t = 4.29$) while JS also influenced OC ($\beta = 0.39, p < 0.001, t = 4.40$). Thus, *H10-H12* were supported. Finally, *H13* which proposed a direct negative relationship between perceived workload and job satisfaction was rejected ($\beta = -0.01, t = -0.19$). Our finding therefore contradicts those of De Cuyper and De Witte (2006), De Alwis and Kumari (2015) and Kunte *et al.* (2017), who reported a significant negative relationship between the two constructs.

Hypothesis	Path	Path coefficient	Results
<i>H1</i>	BYOD → JA	0.52**	Supported
<i>H2</i>	BYOD → TTF	0.52**	Supported
<i>H3</i>	BYOD → W	0.16*	Supported
<i>H4</i>	TTF → JP	0.22*	Supported
<i>H5</i>	W → JP	0.30**	Supported
<i>H6</i>	JA → W	0.38**	Supported
<i>H7</i>	JA → JP	0.31**	Supported
<i>H8</i>	JA → JS	0.68**	Supported
<i>H9</i>	JA → OC	0.25**	Supported
<i>H10</i>	JP → JS	0.15*	Supported
<i>H11</i>	JP → OC	0.25**	Supported
<i>H12</i>	JS → OC	0.39**	Supported
<i>H13</i>	W → JS	-0.01	Rejected

Notes: * $p < 0.01$; ** $p < 0.001$

Table V.
Path coefficient and
their significance

6. Discussion of results

Our findings empirically and theoretically support the JD-R and TTF model within the BYOD context. The model proved to be a useful framework in better understanding employees' usage of BYOD and its effects on job satisfaction, performance and organizational commitment. To the best of the authors' knowledge, this is the first study to analyze, in an integrated way, the relationship between the theoretical constructs in the context of BYOD. Overall, our results showed that BYOD is well in favor of Mauritian employees. Our results also suggest that increasing the extent to which employees are able to bring their own devices leads to increases in perceived job autonomy perceived workload, and TTF. These findings suggest that employees who use their personal devices to fulfill business tasks feel more autonomous in conducting their tasks and is consistent with Morris and Venkatesh (2010), who reported that technology usage has an impact on employees' autonomy, and Niehaves *et al.* (2012, 2013) who confirmed that employees derive greater autonomy when utilizing their personal devices for work purposes. In addition when users are allowed to choose their own devices, they choose hardware and software that match the demands of the tasks. In other words, employees would use their own devices only if they find a fit between the devices and the tasks that they need to complete. The finding is therefore congruent with Goodhue and Thompson (1995) who suggested that the technology being used should be appropriate for an individual to conduct his tasks. The positive relationship between BYOD and perceived workload may be explained by the fact that employees perceive an increase in their workload when utilizing their personal devices for work purposes. This finding corroborates Niehaves *et al.* (2012, 2013), who confirmed that employees feel they have more work to do when using their personal devices for work purposes.

Moreover, the more employees find that their technologies are fit for completing their tasks, the more they will perform better in their job. From a theoretical perspective, these results provide support for the TTFM which postulates that if the technology used is a good fit for the task being conducted, this will be accompanied by higher performance (Carswell *et al.*, 2000; Goodhue *et al.*, 2000; Goodhue and Thompson, 1995). This finding is congruent with Lee *et al.* (2007), who suggest that if there exists a fit among the technology, the task, and the user, this is more likely to promote the willingness of the user to use that technology to enhance the user's work performance.

The findings of this study solidify the belief that job demands can lead to greater job performance (Bakker *et al.*, 2004), which in the context of this study may be explained that an increase in perceived workload is likely to result in greater performance for employees. The JD-R model also contends that an increase in job resources can influence its job demands. In the context of this research, an increase in the job resource "perceived job autonomy" is likely to influence the job demand "perceived workload." This finding suggests that perceived job autonomy helps in coping with job demands as employees are free to decide for themselves as to how and when to respond to their demands. In addition, perceived job autonomy can have a positive influence on perceived workload because of the flexibility available for the work. Despite employees having a high workload or feeling overburdened with many tasks, being autonomous allows them to make adjustments to accommodate all the tasks that they have to complete, thus offsetting negative implications of high workload. This finding corroborates with (Bakker *et al.*, 2003).

Our findings also suggest that employees enjoy greater job performance when they are given the freedom and independence in how they conduct their work. This may be explained by the fact that employees with a high sense of autonomy are likely to experience higher job satisfaction and eventually perform better in their work-related tasks while those with a low sense of autonomy are likely to experience poor performance and work exhaustion. The finding of the present research is therefore congruent with those of Dodd and Ganster (1996);

Shirom *et al.* (2006) whose results suggest that workers who have freedom and independence in how to conduct their work are more likely to benefit from greater job performance.

The results also suggest that employees derive higher job satisfaction when they are autonomous and can decide on their own on how to go about with their work. This finding is consistent with Yeh (2015), whose results suggest that job autonomy can influence employees' job satisfaction, where employees derive higher job satisfaction when they are autonomous and can decide on their own on how to go about with their work.

Moreover, autonomous employees are more likely to be committed toward their organization. This means that employees with increasing perceived autonomy feel more dedicated toward their organization. This result corroborates the JD-R model, and other literature, which posits that job autonomy is likely to influence employees' commitment toward their organization (Ahuja *et al.*, 2006; Bakker *et al.*, 2010; Park and Searcy, 2012).

The significant positive relationship between job performance and job satisfaction may be explained by the fact that the more employees perform well in their job, the higher is their job satisfaction and this finding is consistent with a long-standing body of literature (Bagozzi, 1980; Brown and Peterson, 1993; Darden *et al.*, 1989; Judge *et al.*, 2001; MacKenzie *et al.*, 1998; Siegel and Bowen, 1971; Stumpf and Hartman, 1984). In addition, employees enjoy higher level of commitment toward their organization when they perform well and derive greater job satisfaction and these results corroborate (Fu and Deshpande, 2014; Petrides and Faunham, 2006).

Mediating effects

No formal hypotheses were initially proposed for the mediating effects implied in the model of the current study. However, these were tested using the Bootstrap approach to mediation analysis (Bollen *et al.*, 1990). Results suggested that perceived job autonomy partially mediated the relationship between job performance and organizational commitment. This is probably because employees feel committed toward their organizations when they perform well in their jobs. Thus, perceived job autonomy has a direct as well as an indirect effect (via job performance) on organizational commitment.

This study findings also suggested that perceived job autonomy partially mediated the relationship between job satisfaction and organizational commitment. This suggests that employees feel committed to their organizations when they are satisfied with their jobs. Thus, perceived job autonomy has a direct as well as an indirect effect (via job satisfaction) on organizational commitment. So far, existing research on BYOD did not empirically test job satisfaction's relationship with other variables.

Moreover, the findings obtained from this study suggested that perceived job autonomy partially mediated the relationship between perceived workload and job performance. This is probably because employees feel they can still perform well despite having a lot of work to do provided they perceived they are given the autonomy to conduct their tasks. Thus, perceived job autonomy has a direct as well as an indirect effect (via perceived workload) on job performance.

Results also suggested that job performance partially mediated the relationship between job satisfaction and organizational commitment. This suggests that employees feel committed to their organizations when they are satisfied with their jobs. Thus, job performance has a direct as well as indirect effect (via job satisfaction) on organizational commitment.

Furthermore, results suggested that job performance partially mediated the relationship between perceived job autonomy and job satisfaction. This is probably because employees are more satisfied with their jobs when performing well. Thus, perceived job autonomy has a direct as well as indirect effect (via job performance) on job satisfaction. So far, existing research on BYOD has treated job performance as a dependent variable (Niehaves *et al.*, 2012, 2013).

7. Implications

Practical implications

Findings from the current study have significant practical implications for employers that have already incorporated, or are considering incorporating BYOD in their organizations. The results of this research confirm that BYOD has an impact on employee well-being (through job satisfaction), performance and organizational commitment. These results are consistent with those of previous research and empirical studies based on JD-R model and TTFM in showing that employees with appropriate levels of autonomy, workload and TTF enjoy greater performance, satisfaction and higher commitment. These findings therefore suggest that employees who utilize their personal mobile devices to fulfill business tasks do contribute to their well-being, performance and commitment. Thus, this study contributes to the growing body of evidence that organizations should consider allowing their employees to utilize their personal devices for work purposes. Subsequently, employers may wish to consider incorporating BYOD programs for new recruits. Besides concerns about data security, adopting BYOD is ultimately good for organizations since this trend could result in employees being more committed to their organizations, who derive greater job satisfaction and who achieve higher job performance. These results also suggest that the JD-R model could usefully be elaborated upon to explicitly include BYOD while investigating employee well-being, performance and commitment. With regards to organizational commitment, organizations intending to seek and maintain a long-term relationship with employees are likely to benefit in financial terms through greater performance, more satisfied and highly committed employees.

Theoretical implications

From a theoretical point of view, this study contributes to the BYOD, JD-R model, job satisfaction, job performance and organizational commitment literature. The literature search process of the current study indicates that little has yet been published on theory development with regards to BYOD. The present study therefore may be a starting point for future theory development in this area. This study is also one of the first to examine, in an integrated way, the relationship between the theoretical constructs presented in our research model. Moreover, our research demonstrates that people as well as procedures are highly affected by the BYOD trend. This is not surprising because BYOD has been triggered by consumers and their individual needs, and demonstrates that IS research in the context of BYOD should have an interdisciplinary focus. Hence, it is important to consider psychological aspects when developing a theoretical perspective on BYOD and its implications.

8. Conclusion

This study tested a model with 13 hypotheses. The model was based on the JD-R theory and the TTFM, and examined the impact of BYOD on job performance, job satisfaction and organizational commitment, and was tested using SEM. Data were collected from Mauritian employees.

Contribution

The most notable theoretical contribution of the study is the use of the JD-R theory as well as the TTFM to explain the impact of BYOD on employees. While previous research has considered the impact of BYOD on job performance (Niehaves *et al.*, 2012; Köffer *et al.*, 2014), to the best of our knowledge, no previous BYOD studies used these theoretical lenses.

Existing BYOD models in the literature have also not considered the role of organizational commitment and to our knowledge, no prior studies of BYOD have investigated its impact on organizational commitment; our findings confirm that BYOD has

a positive impact on organizational commitment. In addition, the study also identifies job performance as a mediating variable.

A further theoretical contribution of this study is that it adds to the flexibility of the JD-R theory by expanding the model to explain employee well-being (through job satisfaction), job performance and organizational commitment. No prior model has used these constructs in an integrated theoretical framework to determine the impact that BYOD has on these outcomes. Future research could expand the scope of this study by also investigating the effect of BYOD on burnout and exhaustion.

Limitations and future research

While this study has the same methodological limitations that affect any study employing self-reported survey data, the JD-R theory that forms the theoretical basis of the research supports both self-report and observer ratings. Indeed, the JD-R authors themselves believe that “a distinct feature of the results of our study is the support for the JD-R model for both self-reports and observer ratings” (Demerouti *et al.*, 2001, p. 509). Although, as noted by Demerouti *et al.* (2001), there might be some variance between self-reported and observer-reported ratings, where the constructs relate to workers’ perceptions as they do in this study, self-reported variables are acceptable. Nevertheless, we advise the same caution in interpreting these results as in any other, methodologically similar study.

While this research has provided new insights into the relationships between BYOD and well-being, performance and commitment, some limitations need to be acknowledged. The study was conducted with Mauritian employees, and its findings may have limited applicability to other countries. Further research can be conducted in other locations to ensure generalizability of results. Nevertheless, employers from other countries may conduct similar or related studies to further investigate the reciprocal causality between BYOD and employee well-being, performance and organizational commitment. The proposed model contained only one job demand and one job resource, and it is therefore recommended to identify and incorporate other relevant job demands and resources while testing the model.

On the basis of the tested research model presented in this study, the authors are currently undertaking a follow-up qualitative study to more deeply explore the relationships among the variables and subsequently, getting deeper insights into the causal relationships and why they exist. This will provide a more comprehensive understanding of the BYOD trend and the consequences of its adoption, particularly in relation to employee well-being, performance and organizational commitment.

Since the JD-R model is motivational in nature, this study ignored work motivation as a construct, but it is plausible that BYOD has impacts on employee motivation; further research in this direction is suggested, as it will be important to understand the impact BYOD has on employee motivation as it becomes increasingly widespread. This step will contribute to solve the discrepancies still prevailing between theory and practitioner studies. This will in turn enable organizations to take advantage from the full performance-motivation potential of BYOD despite security concerns.

Finally, there has been little theory development relating to BYOD so far, and the theoretical model developed in this study is thus a starting point for future theoretical development.

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