Understanding the Effect of Digital Literacy on Employees’ Digital Workplace Continuance Intentions and Individual Performance

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ABSTRACT

While a growing body of literature suggests that employees’ digital skills are important to enable both individuals and organisations to make the most of the digital workplace, empirical understanding of their effect on technology adoption and performance is currently limited. Drawing on prior models of technology acceptance and continuance, the present study investigated the effect of digital literacy on behavioural intention to continue using the digital workplace and, ultimately, on individual performance. Linear regression was used to analyse the conceptual model using survey data from 142 employees of a major UK charitable organisation. Results partially supported the model, demonstrating that employees’ digital skills effect continuance intentions and individual performance via their perceptions of ease of use. The findings suggest an important role for digital literacy, both as an antecedent to the more general determinants of technology adoption, and in organisational interventions designed to encourage digital workplace adoption.

KEYWORDS

Continuance Intentions, Digital Literacy, Digital Workplace, Individual Performance, Technology Acceptance

INTRODUCTION

Digital technologies (such as productivity suites, mobile devices, and collaboration platforms) are now an integral part of most workplaces (Cascio & Montealegre, 2016). Implementing such technologies, however, does not guarantee their success (Schallenmueller, 2016), it is essential that individuals adopt and use them as intended for benefits to be realised (Venkatesh et al., 2003). The digital literacy of the workforce can contribute to this outcome (Mohammadyari and Singh, 2015). While a growing body of literature suggests that employees’ digital skills are important to enable both individuals and organisations to make the most of the digital workplace, empirical understanding of their effect on technology adoption and performance is currently limited.

The present study investigates the effect of digital literacy on behavioural intention to continue using the digital workplace and, ultimately, on individual performance. Data was gathered from the workforce of a major UK charitable organisation. A new conceptual model was developed (see Figure 1) and the pathways within it assessed. It takes as its base model the Unified Theory of Acceptance and Use of Technology (UTAUT; Venkatesh et al., 2003), adapting it using measures of information systems (IS) continuance intention and individual performance (Bhattacherjee, 2001), as well as including digital literacy (Van Deursen, Helsper and Eynon, 2016) as a new antecedent.

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Findings have the potential to advance current understanding of technology acceptance in the workplace. Greater understanding of the relationship between digital literacy and digital workplace acceptance may also have important implications for organisations and the design of interventions to help employees make optimal use of digital tools at work.

BACKGROUND

Prior Research on the Digital Workplace

The workplace, and the way that we work within it, has been fundamentally reshaped by technology in the last 30 years, a process that is continuing and gathering pace (Cascio, 2014; Cascio and Montealegre, 2016). The growing consumerisation of technology has seen the migration of new capabilities, such as social platforms and mobile devices, from the consumer market into the workplace (Harris, Ives and Junglas, 2012; Loose, Weeger and Gewald, 2013). In his seminal 2006 paper, McAfee coined the term ‘Enterprise 2.0’ to describe the new wave of social and collaborative technology inside of organisations, pointing out their potential to better facilitate knowledge work where legacy knowledge management systems had largely failed. Writing a decade on from McAfee’s paper, Schallenmueller (2016) notes the deep impact that such technologies, as part of an extended range of information technology capabilities in enterprises, have had on the workplace. Mobile, big data, cloud computing and search-based applications have been, and continue to be, particularly significant in this respect (White, 2012).

While the term ‘digital workplace’ has been in use since around the turn of the century (e.g. Beir, 2000; Benson, Johnson and Kuchinke, 2002) it has become increasingly popular in a business context in the 2010s as a way of describing the broad set of connected technologies that employees use on a daily basis to do their jobs. This is evidenced, for example, by Gartner’s publication of an inaugural ‘Hype Cycle for Digital Workplace’ (Cain, Austin and Gotta, 2014), as well as the launch of specific digital workplace offerings by major consultancies (e.g. Avanade, 2014; Deloitte, 2014.).

The digital workplace is an integrative concept that reaches across enterprise tools and, in one definition, has been described as: “The aggregated set of technology services that enable us to do our work, including: intranets, unified communication, microblogging, HR systems, email, mobile applications, collaborative spaces, supply chain and customer relationship management systems.”

Figure 1. Conceptual Model
Digital and Global Literacies in Networked Communities: Epistemic Shifts and Communication Practices in the Cloud Era

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