

E-HRM: A Strategic Review

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Abstract

Today, HR is not treated as a single function. It's a collection of highly specialized capabilities — each with distinct objectives, tasks and needs. There is an ever-increasing pressure on Human Resource (HR) function to support strategic goals and to focus on value adding activities. Organizations have realized the growing importance of using Information Technology (IT) in leveraging their Human Resource (HR) functions. This takes the form of e-HRM (Electronic Human Resource Management). The e-HRM revolution relies on cutting-edge information technology, ranging from Internet-enabled human resources information systems (HRIS) to corporate intranets and portals. The driving forces are intensifying competition, need to manage workforce on a global level, to improve HR service delivery and to bring cost savings. e-HRM enables HR leaders to become architects in the development of competitive organizational social systems. This paper reviews the research work done in the field of e-HRM. It provides insights into a framework of e-HRM, along with benefits and limitations. It discusses the impact of e-HRM on HR professionals. It seeks to identify implications for future research in this field.

Key words: Human Resource (HR), Electronic Human Resource Management (e-HRM), Human Resource Information System (HRIS), Information Technology (IT)



1. Introduction

Human Resources (HR) constitute the most valuable asset in the context of development. Relative performances of nations, of regions, of economy, of sectors of industry as well as of corporate enterprises are critically linked to quality of human contribution. Even the gains from the intervention of superior technology in any field are closely related to its interface with human factor with corresponding skills as well as attitude. In the new millennium, the way we do business will be revolutionized by Information Technology (IT). A key partnership is being formed between the human resource and information management professionals who work hand-in-hand and serve as the guiding relationship for all future activities and decisions. Capitalizing on the latest web-based technologies, global access to human resource information should be provided to managers and employees to support a variety of management and personal decision-making purposes. Real-time information can be accessed and updated, all through a variety of global information solutions. Using a variety of web-based technologies and Internet solutions, managers and supervisors are obtaining real-time information from their desktop. Visits to the HR office are limited to matters requiring personal consultation or management advice. The virtual official personnel folder is here. Today, HR is not treated as a single function. It's a collection of highly specialized capabilities - each with distinct objectives, tasks and needs. Today's Mantra - HR Optimization: It's about implementing new technologies that maximize efficiency, enhance return on investment, and accelerate the growth. It's about supporting your HR function; better manage resources for the greater good of organization as a whole.

The HR function of both profit and not-for-profit organizations is faced with a numerous challenges, thereby creating ambiguities and tensions in what HR delivers, how it delivers, how effectively it delivers, and to whom it delivers (Ulrich & Brockbank, 2005; Huselid et al, 2005; Paauwe, 2004). Over 90% of US organizations claim to be using web-based HR technology to support administrative operations (Cedar Crestone, 2009). The present research work attempts to define e-HRM, its key benefits and limitations and its impact on the professional standing of HR professionals.

2. Definition

There are hardly any explicit definitions available. The few available definitions (Lengnick Hall& Moritz, 2003, Ruel, Bondarouk, 2004; Sanchez & Aguayo (2007) describe an HRIS as 'Just a specific information system for a concrete environment of business management", where the word 'just' perhaps diminishes the contribution of e-HRM. Similar functional definitions include "The composite of databases, computer applications and hardware and software used to collect, store, manage, deliver, present and manipulate data for Human Resources" (Voermans & Van Veldhoven, 2007). Kovach et al (2006) also take a functional view, seeing technology as a hybrid of transaction processing and decision support, while Voermans & Van Veldhoven(2007) define e-HRM as "The administrative support of the HR function in organizations by using internet technology", Strohmeier (2007) takes up the



connectivity theme, describing e-HRM as "The planning, implementation and application of information technology for both networking and supporting at least two individual or collective actors in their shared performing of HR activities." e-HRM can be defined as "An umbrella term covering all possible integration mechanisms and contents between HRM and information technologies, aiming at creating value within and across organizations for targeted employees and management." (Bondarouk & Ruel, 2009). This is a broad definition of e-HRM. So e-HRM can be defined as an integration of People, Process and Technology. It uses web-based technology to carry out the HR functions.

3. e-HRM drivers

The drivers of HR domain are identified at three levels (Lepak & Snell, 1998):

- i. *The Operational Driver*: To make HR cost effective by reducing the HR headcount, lowering the transaction costs and brings about efficiency.
- ii. *The Relational Driver*: To meet the growing demands of line managers, employees, business partners and increasingly improved levels of service.
- iii. *The Strategic Driver*: To be a strategic business partner by addressing the strategic business objectives.

John Kay (2004), a British economist has argued that it is not only knowledge for innovation but also brands and reputations that are the major sustainable bases on which modern organizations and modern nation states can compete with those in the developing world. This is what he calls as *The Reputaional Driver*. In this context, legitimacy is fast extending to reputations for ethical and sustainable practice. (Boxall & Purcell, 2003; Martin & Hetrick, 2006).

4. HR Transformation

The literature review shows that various studies have been done to understand how contemporary HR management teams in a number of organizations have effectively developed a set of interrelated, *internal* delivery and professional service strategies to meet the *external* challenges set by the business strategies of modern organizations and the longer-term branding and reputational drivers (Reilly & Tamkin, 2006). The first of these internal strategies is the re-organization of the HR function itself, combining so-called HR transformations. These are new HR delivery models based on a tri-partite model of shared services, centers of excellence and strategic or business partnering along the lines recommended by Ulrich & Brockbank (2005) with *outsourcing* and, in some cases, *off-shoring* of key services, especially shared service centers (CIPD, 2005; Cooke, 2006; Reddington, Williamson & Withers, 2005).

Also, information and communications technologies (ICT), is generally used in combination with HR transformations and outsourcing to rationalize or radically change HR's internal operations (CIPD, 2005; Gueutal & Stone 2005; Martin, 2005; Shrivastava & Shaw, 2004). In a study, it was observed that organizational, process reengineering and technological



solutions are interdependent (Keebler, 2001). Infact it is the ever increasing reach and benefits of ICT-enabled information that have facilitated the HR transformation models (Ulrich & Brockbank, 2005). The virtual HR is a result of simultaneously reducing the numbers of specialists required to deliver HR services internally while improving the quality of these same services and developing new HR business models for innovative organizations (Taylor & LaBarre, 2006). So, it could be understood that e-HRM facilitates business re-organization as technology helps reduce the physical and hierarchical distance created by centralizing certain HR functions at the same time, however, it helps create that distance by introducing technology mediation into previous face-to-face relationships. However, despite over a decade of HR transformation approaches, success has been mixed – a CIPD report (Reilly, Tamkin & Broughton, 2007) found that only 13% of HR functions have delivered major cost reduction through shared services has delivered and only 29% have found a major improvement in service quality.

5. Benefits

Drawing from existing literature and several case studies, there are hints about an increased productivity as a result of e-HRM. The literature indicates a reduction in HR staff, cost savings and less administrative burden due to automation (Hawking et al., 2004; Ruel et al., 2004; cited in Strohmeier, 2007). However, the savings in time as a result of e-HRM cannot be directly translated into financial benefits (Dias, 2001). Various companies have looked for an Internet based HR function to bring about the much desired cost savings (Hawking et al., 2004). The main function of HR professionals is to be a high quality service provider to the internal customers of the organization (Lepak and Snell, 1998).e-HRM can meet these relational goals by increasing timeliness and improving client service orientation. (Snell, Pedigo, and Krawiec, 1995; cited in Lepak and Snell, 1998). In their 2002 e-HR survey, Watson Wyatt laid down the four factors which support the case for e-HR: productivity improvements, cost reductions, return on investment and better employee communications. Walker (2001) hints that for success of technology in the HR domain there needs to be a dramatic improvement in the level of service, reducing costs and allowing more time for higher value tasks. In present scenario, the HR function is expected to provide a strategic direction to the human capital management in an organization and be a strategic player in achieving organizational objectives (cited in Hawking, Stein, Foster, 2004; cited in Lepak, Bartol, Erhardt, 2005). Some researchers have observed that few organizations are investing in IT only to bring about efficiency in operational tasks. (Lawler and Mohrman, 2003; cited in Bell and Lee, 2006). It is often regarded as the critical factor in making HR a strategic function. Some researchers (Ruel et al., 2004) believe that e-HRM helps to achieve the globalization aims of the organizations. The literature mentions terms like global HRIS, GIS (global information system) (Akmanligil and Palvia, 2004), IHRM(international human resource management)(Sparrow,2007). The synergy between IT and HRM helps to establish the shared services centers for HR domain. However the differences in the laws of different countries can lead to complex situations in introducing e-HRM. Even though globalization brings about many unknown and complex variables which pose as a major



challenge(Akmanligil and Palvia,2004) yet the benefits of e-HRM for global organizations are substantial. Literature also says that e-HRM helps to create competitive advantage and align the function more closely with business/corporate strategy and the longer-term branding and reputational objectives of organizations.

6. Limiting factors

To quote the Mercer Consulting report: "Over half the survey respondents report that they are ineffective or very ineffective at realizing the expected ROI from technology investments. HR people openly acknowledge that they frequently under-use technology and therefore do not gain full benefit" (Theaker & Vernon, 2006).

Based on the existing literature, which has focused more on the benefits of e-HRM, there are certain potential negative outcomes of e-HR adoption as well. Apart from the investment factor there are high costs involved in implementing e-HR. Also to capitalize on all benefits of e-HRM there are costs involved for "wiring the workforce". There are concerns over change management and technology acceptance by the end user (Reddington et al, 2005; Ruel et al, 2004, Martin et al., 2006). Change is situation-bound and often a complex process in which receptive contexts play an important part, especially in transferring practices across international boundaries or even corporate ones. A change management model will focus on a complex set of events, activities, linguistic practices, emotions and reactions that help explain what would be needed for successful change to occur and why most such initiatives are less-than-successful in producing sustainable change (Martin & Beaumont, 2001). Nevertheless, one of the most important factors shaping the success of technological change is *user acceptance* (Fisher & Howell, 2004).

Even the positive outcome of reducing the HR headcount may at times have negative impact on organization's perception and branding as well as for the HR employees who are thereby displaced. Also, HR managers have witnessed negative effects in moving from a face-to-face to a virtual and/or more distant relationship in HR and people management. It is important to mention that control and security issues will also be a challenge in moving from HR to e-HR.

7. Impact on the standing of HR professionals

In a US study which was carried out on the lines of Ulrich, surveyed HR directors of large commercial companies so as to assess the degree to which HR was a strategic business partner. This role was defined as related to development and implementation of business strategy for the organization. The results were that 41.1% of respondents were full strategic partners with only 3.4% with no role in the strategic process. It was found that use of HRIS(human resource information systems) had consistently increased over previous years (Lawler and Mohrman's 2001). A study (Hussain, Wallace and Cornelius, 2007) was done to understand the impact of use of technology in the HR function on the professional standing of HR professionals. It found that there was evidence which showed that e-HR enhances the professional standing of HR professional standing of HR professionals. The research concluded that for senior HR



professionals the strategic use of HRIS is the norm, irrespective of company size. Also the strategic use of HRIS has enhanced the perceived standing of HR professionals in their organizations.

In the times of globalization and when it is increasingly becoming important for HR managers to justify their seat in the boardrooms, e-HR is a tool, which aids them in managing a global workforce, and facilitates strategic decision-making.

8. Conclusion

The focus of this study was to gain an insight into what drives organizations to move from traditional HR to e-HR. Through an extensive review of literature and discussions with HR professionals it can be concluded that the e-HR bandwagon seems to be growing at a rapid rate which is driven by some evidence of promising practices and positive evaluations of technology. It is the efficient and effective leveraging of technologies to deliver HR solutions that bring about a convergence in human capital, processes, data and tools as a catalyst towards achieving business goals. In this context, some of the largest HR professional bodies in the world - the CIPD and the US-based Society of Human Resource Management (SHRM) have made this issue one of their key areas for research and for educating members. Re-engineering the HR function and outsourcing, progress in the form of the more transformational benefits and pay-off in terms of cost reductions seems to have been more piecemeal and problematic (Caldwell, 2004; Reilly & Williams, 2006).

The paper also suffers from some limitations. The review is only restricted to work published in journals and books and the review is narrative and non statistical. However the paper is able to outline a basic framework of drivers and implications of e-HRM. This paper hopes to stimulate further debates as well as researches on this topic.

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