USING INTERNET SERVICES IN HUMAN RESOURCES MANAGEMENT

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Abstract

The development of Internet services and technologies that are conventionally incorporated in the concepts of «Web 1.0», «Web 2.0» and «Web 3.0» was analyzed. Areas use of technologies and software from the concept Web 1.0 in actions for human resources management (HRM) are set. Areas of use of Web 2.0 services and technologies for key processes in HRM are shown. The potential of the concept of Web 3.0 for HR is now beginning to develop mainly in the «cloud computing» services (particularly in the HR SaaS). Combination of various HRM Systems and Internet services and/or online HR tools for certain HR processes is also actively developing.

Keywords: human resource, personnel management, software, HRMS, Internet services, Web services, HR, HR SaaS, human resource management system, Web, Web 2.0, Web 3.0.

Introduction. The purpose of this research is to determine existing capabilities and ways in using Internet communication technologies and services in human resources management.

Main text. HR specialists are able to use information and communication services and technologies of the Internet (see Fig. 1). Internet technologies have passed several stages in their development which are conventionally called as the concepts of «Web 1.0», «Web 2.0» and «Web 3.0» [1, 2, 3, 4, 5]...

Each of the concepts is reflected in the form of certain technologies and Internet services, i.e. services provided by the Internet. Specifically, HRprofessionals can actively use such technologies and software of concept Web 1.0 which is presented in Table 1.

The appearance of the term «Web 2.0» is associated with the article «What Is Web 2.0» by Tim O'Reilly in 2004 [5]. Furthermore, this concept describes what the perception of the Internet users is actually changing. In times of Web 1.0 open communication in the network occurred mostly anonymously. With the invention of

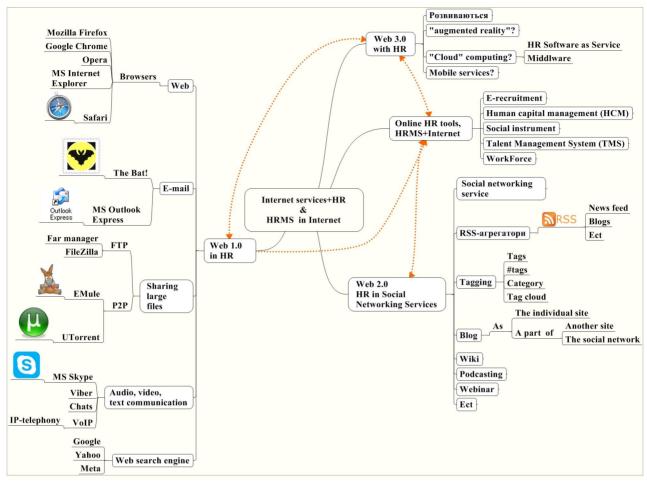


Fig. 1. The information and communication services and technologies

Internet in human resource management

Developed by the author

Web 2.0, users started to add their own personal information about themselves and environment, their preferences, capabilities, goals (so-called «content») and other information. Now there is a need to set some boundaries of confidentiality, which is still not well understood by users.

Table 1
Ways of using Internet services of the concept Web 1.0 in HRM

No	Actions	Internet services and software
1	2	3
1	Obtaining professional	Hypertext. Web browser - program for
	information on the Internet,	browsing websites. The most popular are
	provided by other users, media,	MS Internet Explorer, Google Chrome,
	digital libraries, etc.	Mozilla Firefox, Safari, Opera, ect.

1	2	3
2	Finding relevant information on the websites, FTP sites, news, groups etc.	Web search engine. As a rule browsers are also used for finding information. The most popular search engines are Google, Yandex, Yahoo!, Meta, etc.
3	Sharing large files	Network files sharing or peer-to-peer file sharing (P2P networking). Client programs: uTorrent, eMule. FTP (file transfer protocol). Client programs: Far manager, FileZilla, etc.
4	Correspondence	E-mail. Mail clients (e.g. The Bat!, MS Outlook, Opera Mail, IBM Notes etc.) or Web-based email services (e.g. mail.yahoo, Gmail, Mail.ru, ukr.net and many others)
5	Audio, video and text communication	Applications that transmit <i>audio</i> , <i>video</i> and <i>text information</i> (e.g. MS Skype, Viber, various chat room)
6	Saving on calls to subscribers of other cities and countries	IP-telephony etc.

Source: compiled by the author

Practical implementation Web 2.0 as software and technologies can be considered from 2010. There is no consensus in understanding of examples of practical implementation of the concept of Web 3.0 at the present time.

The concept of Web 3.0 was formulated in 2007 by Jason Calacanis as «the creation of high-quality content and services produced by gifted individuals using Web 2.0 technology as an enabling platform» [4]. The beginning of the practical implementation as software products and technologies can be considered from 2010. There is no consensus in one-valuedness understanding of examples of practical implementation of the concept of Web 3.0 at the present time. That is why different developers of the developers, vendors and users relate to this concept quite various

software and technologies: from the well-known mobile and geolocation services to high-quality video, «cloud computing» technologies, management of computer software «with the power of mind» and 3D-effects (including so-called «augmented reality») [1, 3].

Table 2

Internet services and technologies of the concept Web 2.0, which are involved in the key processes in human resources management

	Processes of human recourses	Internet services and
No		technologies of Web 2.0
	management	_
	Recruiting, employer	Profiles and pages in social networks on
1	branding, creating	professional (e.g., LinkedIn) and general
	professional communities	purpose (e.g., Facebook)
		RSS-aggregator as client software or a web
	0 1 1 1 1 1	application. The aggregator checks indicated
	Quick review of news and	sources itself (e.g., web sites, blogs, vblogs)
2	articles at user-specified	and notifies the user about updating
	information resources	information, saving time on visiting certain
		web pages
		web pages
	Establishing professional	
	communications; recruiting;	
3	employer branding;	Blog (photoblog, vblog, microblog), website,
3	promotion of professional	podcast, etc.
	personal brand as a HR	
	specialist	
	Corporate training,	
4		Dadameta wakio na wiki widaa bla a sta
4	advancement of educational	Podcasts, webinar, wiki, video blog, etc.
	level of personnel	
5	Saving and accumulation of	Wiki
	knowledge	YY INI
		1 11 1 1

Source: compiled by the author

At the present time the limits of terminology between the concepts of Web 2.0 and Web 3.0 cannot be called well-defined. For example, such technologies as «cloud» services or collaboration services (e.g. Google docs) can be attributed both to the concept of Web 2.0 and to the Web 3.0.

Besides, the combination of corporate Human Resource Management Systems (HRMS) (in particular Human capital management, Work Force Management, Talent management system, corporate learning systems, e-recruitment, etc.) with the Internet services is widely used at the present time [2].

Conclusion. So, we found that the possibilities of using Web services 1.0 (Internet technologies and software) in human resources management are limited by specific actions. Resulting of the development and personalization of the concept technologies Web 2.0, active user participation in shaping the content and connections between them, HR-professionals can use Internet services for the key processes in HRM. The potential of Web 3.0 begins to be used in human resources management at the present time. In particular, vendors offer many HR SaaS software. HRMS is actively integrated currently with Internet services or represented as separate online HR tools.

Prospects for further development of the subject are detailed researches of individual types of Internet services and technologies in HR management.

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