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ОБРАЗОВАНИЕ ЧЕРЕЗ ВСЮ ЖИЗНЬ С ИСПОЛЬЗОВАНИЕМ МОБИЛЬНЫХ СИСТЕМ НЕПРЕРЫВНОГО ОБУЧЕНИЯ

Аннотация. В этой статье предлагается концептуальная основа для мобильного электронного обучения на протяжении образования через всю жизнь, которая обеспечивает систематическую поддержку разработки мобильного опыта обучения. В ней представлен обзор использования новых технологий для обучения в течение всей жизни. В настоящее время для обучения через всю жизнь используется больше персональных технологий для поддержки самоорганизованного обучения.

Ключевые слова: обучение через всю жизнь, мобильное обучение, цифровые занятия, приложения, смартфон.

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LIFELONG LEARNING USING MOBILE EDUCATIONAL SYSTEMS

Abstract. This paper proposes a conceptual framework for mobile lifelong learning applications that provides systematic support for mobile lifelong learning experience design. It provides an overview about the use of new technologies for lifelong learning. Nowadays more personal technologies are used for lifelong learning to support self-organized learning.

Keywords: lifelong learning, mLearning, digital classes, applications, smartphone.

The learning society is the vision of a society where there are recognized opportunities for learning for every person wherever they are and however old they should be. It is not surprising to know that many are worried about keeping their jobs, or if there will be enough jobs in the future. By improving people's ability to function as members of their communities, education and training increase social cohesion, reduce crime, and improve income distribution. Of course, people could take educational tours. However, the main components of educational tourism are school tours, sightseeing trips, study trips to study a foreign language, study for non-degree studies, study tours for degree studies [2]. Online learning courses are a great option for professionals who continuously try to improve themselves. They are less time consuming, require less commitment and can still help you advance your career. Approaches to the digitalization of the educational process, analyzes the problems of introducing digital technologies and their possible implementation [1].

The millennial workforce is continually growing and overtaking the current Gen-X workforce. This new generation was the first to embrace a complete social adoption and the growing desire for social learning mimics that.

Lifelong learning is the process of gaining valuable skills and knowledge throughout a person's life. Many individuals choose to continue their education for personal development as they see it as a way to reach their full potential, while for others it is a great way to take their career to the next level. The concept of lifelong learning for adults is based on the principles of continuity, flexibility, fast dynamics associated with the change of the needs of the labor market, on the implementation of the concept of education "not for whole life, but life-long" [3].

Learning for professional development can be broken down into two basic categories: going back to university and online learning courses. If a person is thinking of changing

careers, he might also want to consider going back for an undergraduate degree; especially if your target career requires an entirely different skillset. Most universities now offer their degrees online as well, so you could do your degree via distant learning.

Digital classes can teach a person practical skills that can directly benefit his career as he can choose what he wants to learn. The Internet is the most powerful tool for learning ever invented. Soon, we will not only have the World Wide Web, but also new technologies like augmented reality and virtual reality that let us learn and explore through all of our senses rather than textbooks and lectures.

Interaction is key when it comes to learning. An online lifelong training platform makes the development, delivery, and management of a continuing training program simpler. Many companies sponsor their employees' continuing education because they see it as a way of investing in the company's future.

Mobile learning is among the latest trends in education that have captured educators' interest, and seem to hold considerable promise in terms of learning potential. According to sources, the mobile learning market will be worth around $37.60 million by 2020 [7]. Mobile learning solutions enable educators and trainers to provide real-time interactive training and instructions to the end users through the medium of smartphones and mobile devices. This not only helps to provide an interactive learning experience but also makes learning not restricted to a classroom or a training room. Furthermore, the applications such as video lectures, audio & video course material, eBooks and others allow the access to information on the go which further bridges the time and distance gap between the educators and the students / employees.

It is clear that learning via a smartphone, tablet or other mobile device has become a part of our daily routines, blurring the lines between personal and professional enrichment opportunities. Increased mobile penetration, greater and faster adoption of new technology, improved communication infrastructure, and more reliance on real-time information for decision-making purposes will drive mobile device usage. According to a study by Michaels & Associates [6], 52 % of people using mobile learning (mLearning) use it in bed after waking up and 46 % in before, they go to sleep. Recent research reveals that mobile learning will continue to rise due to the spread of personal devices in the workplace, improved mobile technologies and a growing mobile workforce. Technically, the tablet and the smartphone are different devices that should deliver unique experiences. However, the lines between them have blurred in recent times, and it is now difficult to distinguish between the two.

Extended enterprise training is being strategically deployed in most industries including technology, software, healthcare, manufacturing, consulting, financial, franchise and training companies. For example, when a company releases innovative equipment or software to the market, "they need people external to their company to understand how to implement, use and maintain them successfully."

Companies across the world are increasingly recognizing the need to create focused strategies for designing and implementing mobile learning. According to a survey by the Brandon Hall Group in 2016, mobile learning now features among the top three-business development priorities for companies and ranks only behind the need for seamless business alignment and improved data mining [5].
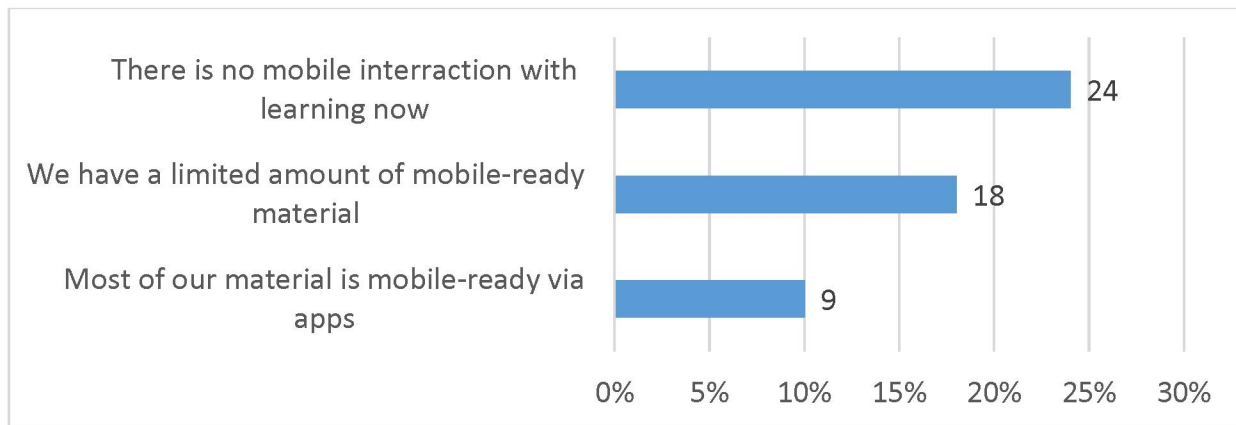
Figure 1 – Business companies, used mobile Lifelong learning in 2016 [7]

The workforce has gone mobile. People are turning to mobile technologies for convenience and connectivity. For many, their mobile device is the medium of choice for communicating with each other and for learning. 90 % now own a smartphone and/or tablet and 84 % are downloading apps, 74 % use a mobile to access resources they need to do their job [8].
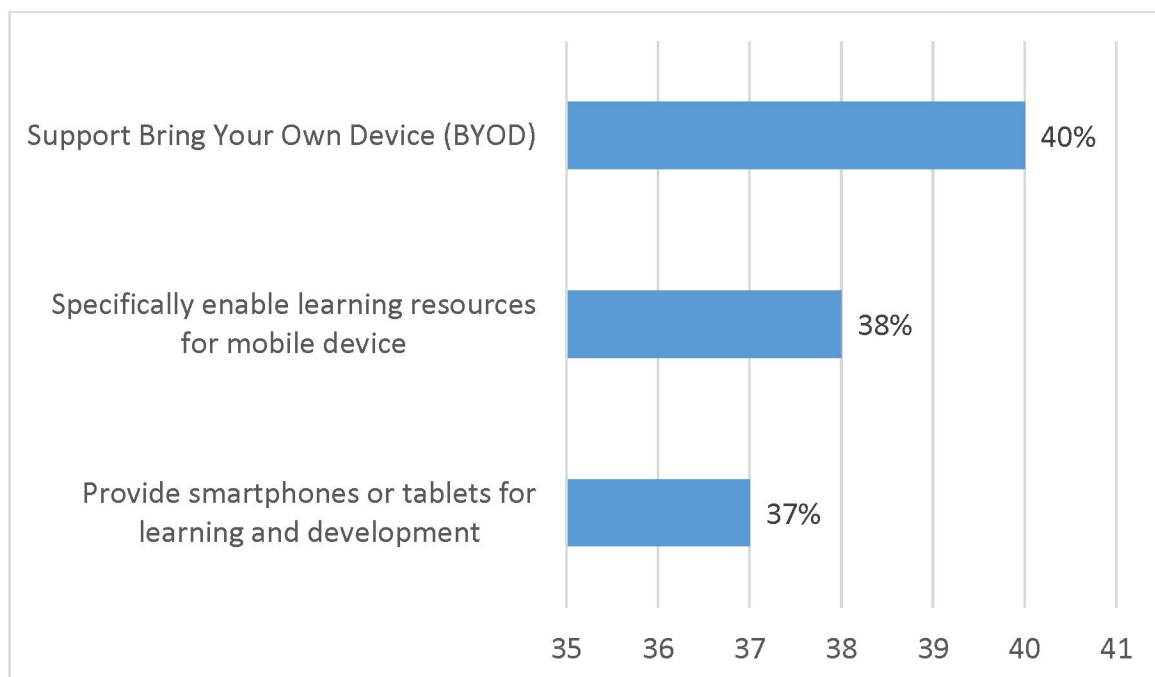

Figure 2 – Business organisations offering mobile Lifelong learning in some form [8]

Mobile learning market caters to users from both the academic as well as the corporate world. The market consists of various large and niche players who provide proficient software solutions such as mobile content authoring, e-books, portable learning management system, mobile and video based courseware, mobile content authoring, interactive assessments, content development.

Advantages of mobile learning:

• Wherever and whenever (It is possible to lay in bed and watch a lecture or complete a survey whenever you want).

• Motivation ("We are going to take an online quiz!" Students are motivated to learn when they can use tablets or other mobile devices. Employees also feel more motivated to

learn something new or to take a training if they can take their learning materials everywhere with them, especially when they don't have time to learn during their regular work hours).

- Different types of content (One can add videos, audio files, and images with mobile learning. Videos make it possible to make learning livelier and more interesting).
- Long distance is not a problem (While one learner might be in New York and the other in Amsterdam, it's still possible to view the same content and take the same tests).

Disadvantages of mobile learning:

- Distraction (Mobile devices can be a great distraction for participants. For adults, mobile learning can be distracting if your users get constantly interrupted with text messages and notifications. Therefore, it requires self-discipline and focus on their part).
- Lack of Internet connection or electricity (Using mobile devices for life-long learning could be an issue if your users do not have Internet connection or electricity readily available).

Supporting the mobile workforce is about more than access and flexibility of time and place, although these are important aspects:

- 58 % agree that learners can choose to access resources at any time;
- 35 % agree that learners can learn at places convenient to them.

The mobile workforce is tech-savvy and connected, learning more from peers and resources that are easily found at the point of need, rather than formal online or face-to-face classroom interventions. eLearning trends such as mLearning, microlearning, social learning, video learning and gamification aren't new to most people in the industry, but their adoption and growth are definitely in an upward swing.

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