Employment and Learning in the Context of the Quality of Working Life

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Abstract—The society and labor markets are preparing for the global competition with robots, artificial intelligence, and the Internet of things. By addressing the bibliometric research deficit from an international literature perspective, this study explores the thematic evolution and the state of employability, lifelong learning, and the quality of working life concerning the internationally accredited scientific databases: Web of Science and Scopus. The presented paper gives an overview of previous studies, conducting the two last decades on the issues of the mentioned above terms. The analysis is limited by the most significant works, considering the citation index, related to employability, lifelong learning, and making managerial decisions that directly affect the quality of working life. The results indicate an increase in discussions around the effectiveness of proactive activating learning methods, and their impact on the employability and the quality of life issues. Finally, the paper contributes to the literature in the field under study and makes recommendations for future longitudinal studies.

Keywords: employment, employability, lifelong learning, quality of working life

I. INTRODUCTION

The society is evolving dynamically, and the quality of life becomes the concern of the state, employers, and the individual. As welfare increases, the importance of a perception of the quality of life will increase. Methods of its objective improvement mainly concentrate in the field of medicine. Indicators of its subjective perception include a wide range of aspects of life and work. Quality of life surveys give an insight into what factors are essential to humans, how they are fulfilled, and change over time. Preferences receive human values, health, interpersonal relationships, work, and working conditions. Education and lifelong learning have a special place in the quality of life by creating conditions for employability and the quality of working life (QWL). Work 4.0 will require entrepreneurial competencies and lifelong learning for employers to sustain competitively and generate innovations.

The aim of the paper is the following:

- To characterize efforts in the field of employability, lifelong learning and QWL using bibliometrics analysis of bibliographic data on the topic,
- To identify perspectives in the area of lifelong learning,
- To illustrate experience and opinions of top managers about university students in the Czech Republic in two case studies.

II. LITERATURE REVIEW AND RESEARCH METHODS

A. Literature review

Employability and lifelong learning are becoming increasingly of interest to politicians and employers as a result of the EU enlargement context and the economic crisis of 2008-2012. Studies address Europe's diversity in education, the ability to identify competency profiles as required by employers across borders and achieve a balance between flexibility and employment security at the national level [1], [2].

Over the past decades, there has been an evident shift; it is no longer about employment but about employability. Fejes [3] argues that the individual is personally responsible for his/her employability and that the state and employer are in the role of helping. Lifelong learning of the worker has positive effects on all aspects of sustainable employment, i.e., employability, workability, and vitality. Van Vuuren, Caniels, and Semeijn [4] believe that the interaction between age and lifelong learning has significant effects on employability and workability. They argue that older workers maintain their employability and workability when they are interested in and perceive more opportunities for lifelong learning. Examples of good practices for maintaining employability include training, lifelong learning and knowledge transfer, flexible working, health protection, and promotion design, career development, and mobility management [5]. A critical milestone for keeping social reconciliation is increasing social polarization and economic uncertainty when lifelong learning can function as significant protection by keeping adults close to a changing labor market [6].

Discussions on the concept of education for sustainable employability and lifelong learning concentrate on labor market needs and job competency models [7], [8]. Training programs providing occupation-specific skills with immediate labor market relevance repeatedly show to secure safe pathways into employment, but cannot guarantee lifelong employability [9]. Employability skills required by Work 4.0 include hard and soft skills, like communication skills, problem-solving and decision-making skills, and teamwork skills, and personal characteristics, e.g., self-awareness, self-confidence, independence, emotional intelligence, flexibility and adaptability, stress tolerance,
creativity and initiative, willingness to learn, reflectiveness, lifelong learning, and professional behavior [10].

QWL studies focus on various aspects of the life and work, i.e., (1) the medical aspects of the work process, workers and members of their families, and ways to overcome them [11], [12], [13]; (2) gender and age differences of workers in the labor market [14], [15]; (3) family, leisure, or work priority ratios [16], [17], [18], [19], [20]; (4) studies of the relationship between corporate social responsibility and well-being of employees; (5) studies of the impact of participation in a cultural and sporting events on QWL [21], [22]. A few QWL studies relate to employability and lifelong learning. Their significant amount of work exists in the categories of Economics, Business, and Management, considering the impact of management decisions on employees’ QWL.

B. Research methods

Research methods collect data and evaluate efforts focused on selected research areas. They cover quantitative and qualitative methods. Firstly, we apply the bibliometric methods introduced by A. Pritchard in 1969 and aimed at an analysis of bibliographic data of publications in the Web of Science and Scopus. It identifies trends, monitors the development of knowledge, and searches for new fields for future research. Secondly, based on two unstructured interviews about university students and education in the Czech environment, we summarize their findings in two case studies.

The reason for using these methods is that the topic deals with social phenomena that are determined by the national culture, values, and behavior of people and whose changes influence a situational socio-economic system. The paper includes on-the-desk analyzes of secondary sources that reveal trends. Unstructured interviews with two top managers of multinational consultancy companies identify opinions about their approaches to developing HR strategies, people staffing, and training. A combination of these research methods provides a rational ground for predictions which areas of future research can expect.

III. RESULTS

A. Analysis of bibliographic data

We retrieved 349 878 bibliographic records that matched the query in database search: records from the Web of Science databases count for 134 241 and Scopus 215 637. Their structure of bibliographic records shows Table I. The enormous amount of literature of various sciences does not allow conducting a complete analysis of all of them. In this paper, the analysis is limited by the most significant works, considering the citation index related to employability, lifelong learning, and QWL. The study outlines the development of promising directions in several areas of the economy, the labor economy, and human resource management.

Employability belongs to the most studied topics in England (584), Spain (494), Romania (337), Germany (271), and People Republic of China (269). In the CR, it includes 122 publications.

Studies about QWL according to categories focus on management (58 publications), public environmental and occupational health (47), economics (30), nursing (29), industrial relations labor (28), and applied psychology (23).

The literature between 2012 and 2019 was used since this period increased the number of publications about the works related to employability and lifelong learning, as shown in Table II.

<table>
<thead>
<tr>
<th>Query</th>
<th>Bibliographic Records a</th>
<th>Web of Science</th>
<th>Scopus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employment</td>
<td>122 708</td>
<td>195 558</td>
<td></td>
</tr>
<tr>
<td>Employability</td>
<td>5 105</td>
<td>6 672</td>
<td></td>
</tr>
<tr>
<td>Lifelong learning</td>
<td>6 054</td>
<td>9 088</td>
<td></td>
</tr>
<tr>
<td>Life-long learning</td>
<td>43</td>
<td>3 390</td>
<td></td>
</tr>
<tr>
<td>Quality of working life</td>
<td>331</td>
<td>929</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>134 241</td>
<td>215 637</td>
<td></td>
</tr>
</tbody>
</table>

B. Case studies

Two unstructured interviews with top managers - co-owners of multinational consultancy companies located in the CR provide data for two case studies. They are an illustration of what job requirements they expect for staffing a business analyst position and how they evaluate the behavior and attitudes of university students to learning. The interviews use findings from marketing studies summarized under the heading of employer branding [24].

Case study 1. Radek is a co-owner of a multinational consulting firm that operates worldwide and whose organizational structure acts as a network of independent local entities. The Czech branch is fully autonomous, and its core business covers consulting for the energy sector. The critical human resource processes are managed by the branch manager, which involves making decisions about selection, doing performance management, coaching, deciding about promotion, and remuneration. Recruitment targets students and recent graduates, regardless of university and field of study. They are usually addressed directly, and the preference becomes word-of-mouth by current or former employees. Digital competence and language skills are a prerequisite for passing a pre-selection phase. The selection procedure includes a case study from a real business (usually a case solved by the company for its clients) and an interview with the co-owner. The decisive criterion for accepting the job candidate is his/her broad knowledge (ideally in the
technical, life, and social sciences), willingness to learn, and ability to find unconventional solutions, share experiences and collaborate in a team.

Case study 2. Pavel is a co-owner of a multinational consultancy company whose branches are in most European countries. The company specializes in corporate training and development, coaching, a consultancy in design competency models. The Czech branch belongs to the category of micro-enterprise, which cooperates with an extensive network of independent consultants. Since 1992, the managing partner has been giving lectures to full-time students at universities and can compare how their behavior and attitudes towards education have changed over the past 25 years. He perceives that students' attention and interest in lectures given by businessmen decrease. He thinks that students mainly focus on their employment and studying at a university see as an additional burden, as jobs they need for earning money and study losing for them additional value. They take learning, e.g., doing homework and reading recommended literature, less seriously. Students are mostly passive, unwilling to be involved in interactive teaching, and in discussions because as they do not want to go out of the crowd and lose face in front of others. When they solve case studies, a team solution prevails without a multidisciplinary interconnection with other areas. Discussions tend to be full of general phrases from outdated textbooks, without understanding relations between theory and practice, low level of knowledge about both historical and current business topics. During lessons, students rely on pre-prepared presentations that they are used to read and are not familiar with the contents.

IV. DISCUSSION

Automation and robotics increase the demand for technical knowledge and skills to solve problems and generate innovation, especially in professions related to science, technology, engineering, and mathematics. In addition to primary education, continuing vocational training should ensure that workers can operate new technologies. Open sources for lifelong learning create the potential for easy mobility between jobs, professions, and economic activities. In both parts of education, both cognitive and non-cognitive competencies are concerned, with non-cognitive acquired in early childhood, and at school, one must be persistent and purposeful, is interested in learning, and the ICT infrastructure supports providing mass online courses.

High-quality qualifications obtained at schools and universities significantly increase employability. It is vital for employers that vocational higher education and other training be relevant to practice, for example, by extending qualification profiles, integrating key work competencies into study programs, and utilizing proactive and interactive learning methods in a massive way.

In many localities, the reality of education is far from government strategies and policies. F. T. Sáez gives brilliant comments on the situation in the education system in the context of digital transformation at the SELFIE Forum organized by the European Commission in April 2019 [25]. He said that although many teachers would like to participate in transforming education, they face constraints because they work in an institution that is slow, rigid, and refuses to change. He summed up the importance of ending the debate that teachers themselves are crucial to innovation and transformation in education. The crucial step for the future is to connect schools with practice and to involve companies in the education system.

V. CONCLUSION

The bibliometric analysis revealed the main trends in employability, lifelong learning, and QWL studies and identified promising areas for further work. The importance of lifelong learning has grown steadily over the past 20 years. Demands for hard and soft skills of the workforce are increasing, and great emphasis puts on entrepreneurial competencies. Innovations in education influence factors such as: (1) a labor market situation, (2) funds declared and distributed to educational institutions, (3) the position and role of educators in society and the economy, (4) cooperation between educational institutions and business, and (5) the values of young people and their attitudes towards learning.

Employability supports lifelong learning, in which proactive and interactive methods are the most effective. In the CR, educational reforms have a short lifetime. The stabilization of education depends on the political culture and continuity of school reforms. Employers treat employees' lifelong learning pragmatically and declare their interest in creating opportunities for practical training.

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