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## EFFECT OF PROBLEM BASED: LIFE-LONG EDUCATION IN INDUSTRIAL AND DEVELOPING COUNTRIES

## Nurlela Baco<sup>1</sup>, Elihami Elihami<sup>2</sup>

1,2 Nonformal Education Department, Muhammadiyah University of Enrekang ⊠Corresponding email: nurlelah9248@gmail.com

| Article info           | Abstract  |
|------------------------|---|
| Article History        | To explore how well graduates of self-directed, problem-  |
| Received : 25/03/2021  | based undergraduate curricula (USA, Vietnam, Taiwan, RRC, and Japan) who go on to primary care careers adhere to current clinical practice guidelines. Lifelong |
| Accepted :             | education is education that does not stop until it becomes an individual to become an adult, but continues  |
| 29/03/2021             | throughout life. Lifelong education is of higher urgency at this time because humans need to continually adjust   |
| Published : 02/04/2021 | themselves so that they live naturally in an ever changing society. Lifelong education in industrialized and  |
|                        | developing countries is indispensable in order to increase equality in the distribution of educational services, has pleasant economic implications, and        |
|                        | essential in dealing with changing social structures there are vocational reasons for determining it will deliver an  |
|                        | increase in the quality of life. Although the concept of lifelong education in industrialized and developing  |
|                        | countries is different, the goal remains the same". <b>Keywords:</b> Lifelong education; industrialized countries; developing countries                         |

### **INTRODUCTION**

Lifelong education is understood as a concept which states that the educational process can be carried out anywhere and anytime without being limited by age. This shows that education takes place from the time a human is born until he dies. Lifelong education is a human act naturally and naturally, (Elihami, E., 2016), the process does not always require teachers, tutors or educators. The learning process may not be realized by a person or group that he or they are always involved in it. Lifelong learning activities are manifested when there is an urge in a person to meet learning needs and satisfaction

and if there is awareness and enthusiasm to learn while life is still in the body.

According to the concept of lifelong education, educational activities are considered as a whole. The entire education sector is an integrated system, (Elihami, E., & Saharuddin, A, 2017). This concept must be adapted to the realities and needs of the community concerned. An advanced society will have different needs from an underdeveloped society. If most of the people of a nation are still illiterate, then efforts to eradicate illiteracy among adults will get priority in the lifelong education system, (Elihami, E., & Syahid, A., 2018). But in industrialized countries that have developed rapidly, the problem of how to fill the free time to get on this system.

Lifelong education provides opportunities for people to learn flexible and broadly according to their ages and needs. With interests, education, humans lifelong continue to develop their potential wherever and according to their implementation portion. The lifelong education in every country cannot be the same, (Djafar, S., Nadar, N., Arwan, A., & Elihami, E, 2019). The aim aimed at industrial and developing countries in general is to increase human resources. However, the interests of a country of course different. Industrial countries focus on maintaining the progress of the nation improving human resources. While developing countries aim to improve welfare and improve the quality of life of their people, (Zhang, et.al., 2021).

#### DISCUSSION

The role of lifelong education:

- 1. Life long education allows a person to develop their potential according to their needs, because basically all human beings born into the world have the same rights, especially to get education and increase knowledge and skills (Asrianti, et.al., 2021). With the potential. knowledge and skills possessed are then developed as life goes on. And with this potential, it can encourage people to work harder in living life, with this knowledge humans are not easily fooled, with these skills humans can make new and useful things, (Agusriandi, et.al., 2021).
  - 1. Through lifelong education, is the most effective way to get out of a circle of ignorance and poverty. Lifelong education enables a person to:
  - 2. Increase their productivity so that they can maximize their abilities.
  - 3. Maintain and develop the resources they have for the development of themselves and others around them.
  - 4. It is possible to live in a healthier and more enjoyable environment because of the education we have been taught when we were young.
  - 5. Have motivation in caring for and educating their children appropriately, so that family education is very important and of great significance.
  - 6. In general, in developing countries there are still many parents who are not aware of the importance of formal education for their children. Therefore,

many of their children receive less formal education, drop out of school or do not attend school at all. Thus, lifelong education is a solution to the problem of parents because it changes their view from being indifferent to education to be positive thinking, namely that education is able to change attitudes, be more skilled and be more useful for families.

- 7. In current the era of globalization, it seems that the world is hit by the exploitation of science and technology (IPTEK) with the various products it produces. Everyone, including educators, scholars, leaders and so on, is required to always update their knowledge and skills like what is happening in developed countries, (Hami, E., & Idris, M., 2015). Therefore, lifelong education provides knowledge that is not yet possessed or which is not yet known.
- 8. The rapid development of science and technology has had a major impact and influence on various educational concepts, techniques and methods. In addition, these developments are also getting wider, deeper and more complex, which makes it impossible for science to be taught entirely to students in schools. Therefore, the main task of school pathway education is to teach how to learn, instill strong motivation in learning, the child's self to learn continuously throughout his life, providing skills to students effectively so that he is able to adapt in a society that tends to

change rapidly. In this regard, it is necessary to create a condition which constitutes the application of the principle of lifelong education.

The concept of lifelong education in industrial and developing countries

#### 1. United States

The main characteristic of education in the United States is that it is decentralized. The federal, state, and local governments have very clear rules and administrative responsibilities. The United States does not have a centralized or national education system. However, that does not mean the federal government is not provide direction and influence on educational problems. The legislature, judiciary and fedaral Executive are very active in the decision-making process regarding education.

The appointment of teachers is the authority of the state government. Each state has its own provisions regarding the requirements obtaining a teaching certificate. There are states that require teaching requirements, such as mastering drug counseling, mastering computers and so on. There are also states that provide certificates. teaching undergraduate (S.1) graduates, the second certificate stage for Masters (S.2)graduates. Then providing written examinations and teaching practice as a requirement for teacher appointments. The state also issues certificates for administrative staff of schools-principals and regional educators.

### 2. Lifelong learning in Vietnam

Education in Vietnam basically occurred before the country became independent, namely during the French government, but was very limited to the elite. As a result, the illiteracy rate reached 90% after the establishment of an administrative region in Hanoi in 1945, a program to eradicate illiteracy was carried out until 1950 and the result was that 90% literate. were independence in 1975 the program was continued and three years later it was declared complete.

Lifelong learning at this time, the complementary education system is held in line with the formal education system with the aim of providing vocational skills for adults, (Hasnidar, H., & Elihami, E., 2020). Meanwhile. basic education intended for community members after literacy education, (Firawati, F., 2017). To support the implementation of these activities, curricula and learning materials are compiled nationally, where the material is adapted the community to environment, (Elihami, E., & Syarif, I., 2017). Lifelong learning in the future, lifelong education will continue to develop. This is indicated by the increasing efforts of the government in implementing this education.

## 3. Life-long study in Taiwan

Lifelong learning in Taiwan is strongly influenced by the teachings of Sun Yat Sen, a national movement leader. Sun Yat Sen's teachings were developed on the basis of political doctrine and Confucian teachings.

Lifelong learning today, vocational education is carried out through public and private education

in the fields of agriculture, industry, trade, performing arts, economics and households. health and production. However, the method used in state institutions does not use traditional methods, so it is not suitable for adult needs, (Elihami, E., & Suparman, S, 2019). So a program offered by private institutions was born that prioritizes the development sustainable learning abilities. Problem solving, critical thinking, and creativity. But not all people have participated in the program.

Lifelong learning in the future, even though there are changes in sociopolitical life, the three principles put forward by Sun Yat Sen, still survive and influence the practice of lifelong education. For example, students feel that it is the government's obligation to provide educational opportunities for all members of society. Besides, the program that is run must be balanced, not only vocational but also personal and social development must be developed in the program, (Efendi, A., & Elihami, E., 2019).

Another teaching that influences lifelong education is the Confucian teachings. According to this teaching, respect for adults lies in selfdevelopment activities and moral policies, (Elihami, E., Rahamma, T., Dangnga, M. S., & Gunawan, N. A, 2019). This is what encourages adults to learn throughout their lives. Another aspect that affects lifelong development is the number of elderly people, which is increasing by 7-8% of the total population, (Musdalifah, et.al., 2021). On the other hand, it becomes an educational resource and on the other hand it becomes the responsibility of education. This group

needs educational services to develop themselves and socially.

## 4. Lifelong study in China

Lifelong learning in PRC systematically and conceptually became known only when the Learning Tο Be document launched bv Unesco. although practically this has been done for a long time in the community. The development of lifelong learning in China is more supported by private institutions than the government. The government is more focused on 9 years of basic education which is planned and will be completed by the end of the 30th century, (Jabri, et.al., 2019).

The development of lifelong learning is closely related to the factors of the development of science and technology, economy, community and education culture. itself. (Syaparuddin, et.al., 2020). In science and technology there have been extraordinary developments. industry has used new technology so that workers who have lost their jobs or need training In the economic field, the PRC has entered the world market so that it inevitably has to compete with other countries. Besides these needs, society also needs selfdevelopment and culture, which is no less important is education itself. In this case the government does not have sufficient funds to finance all the needs of the community. Until high school level, the number of students that must be accommodated reaches 200 million or 25% of the total number of students worldwide. The main priority is the fulfillment of basic education needs



Figure.1 VOS Viewer

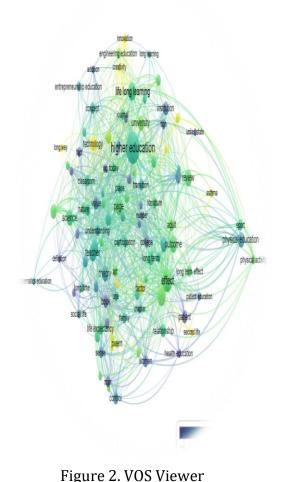
Since 2009, VOSviewer has been in active development.

VOSViewer employs van Eck and Waltman's VOS (Visualization of Similarities) algorithm to depict the relationship between entities in such a way that both direct and indirect connections between entities result in those entities being placed closer together on a map. Bibliometrics is often presented in the context of research data management in the library science literature, often as a service provided by research data management departments in large research universities. Bibliometrics is also used as a tool for post-processing data collected through other means, such as the content management system used for virtual reference transactions.

## 5. Life-long study in Japan

There are three main factors driving the development of lifelong learning in Japan. These three factors are internationalization, the reform and the elderly society. era Internationalization occurs in three importing stages. namely materials and processing them as finished goods for export. The transfer of industry to other countries, and the emigration of Japanese professional workers abroad and the immigration of foreign manual labor to Japan. The reform has changed era the organizational system from centralized to decentralized, strict management control pyramid horizontal arrangement. Besides. Japan will enter the age of the elderly. It is estimated that in 2025 the population aged 65 years and over will reach 27%. These three conditions require changes in the

education system that is more flexible and open.



The VOSviewer software makes it simple to access bibliometric mapping using Dimensions, Scopus, and Web of Science data. Citation data that is properly formatted structured, as well as the ease with which it can be exported, opens up new avenues for use during citation searches and reference interviews. This describes paper specific techniques for advanced using Dimensions searches. exporting

citation data, and gaining insights from VOS Viewer maps. These search

techniques and data export practices are quick and accurate enough to incorporate into reference interviews for graduate students, faculty, and post-doctoral researchers.

Problem-based learning differs from problem solving in that the patient's problems are used as a springboard for learning; solving the problem, while important, is not an end in itself. Consideration and analysis of a specific problem is intended to raise awareness of the big picture and its variations, which may lead to changes in the proposed Students the solutions. in curriculum learn through inquiry to establish clear learning objectives from the study of health care problems and early contact with patients. Students must identify areas deficiency in their own performance, locate appropriate educational resources. critically evaluate these resources, and evaluate their own performance, (Shin, J. H., Haynes, R. B., & Johnston, M. E., 1993).

### **CONCLUSION**

Lifelong education provides opportunities for people to learn flexible and broadly according to their interests. ages and needs. lifelong education, humans continue to develop their potential wherever and according to their portion. The implementation lifelong education in every country cannot be the same. The aim aimed at industrial and developing countries in general is to increase human resources. However, the interests of a country of course different. Industrial countries focus on maintaining the progress of the nation and improving human resources. While developing countries aim to improve welfare and improve the quality of life of their people.

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