

The Urgency and Relevance of Art Education in the Industry 4.0

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ABSTRACT

Globalization has brought tremendous progress to human civilization. The development of technology and information affects all aspects including the field of education. This fact is further supported by the Fourth Industrial Revolution which impacts the complexity of human life. With digital culture, technology may provide opportunities and new possibilities. A person can be smart in an instant, even without having to go to school for years. Knowledge becomes very wide open for anyone, as various facilities are available for those who seek them. Moreover, the advancement of digital technology makes it possible for people to connect with anything as if there are no boundaries. Technology can unite people in the universe regardless of cultural boundaries. On the other hand, there is a concern that advanced technology in turn can bring a nation into the digital disruption era. The young generation lives in the globalization of consciousness that is increasingly widespread and is in a cross-culture. The cross-culture continues to move in their respective super cultures which tend to develop towards individualism and apathy. To respond to this, what might be done is to build the community character and improve cultural resilience in order to develop nationalism. Future education should focus on humanities, for example, art education to build character in order to identify students' own needs as well as improve critical thinking and sensitivity.

Keyword: Urgency, art education, industry 4.0

1. INTRODUCTION

The globalization process has effects on human civilization, including Indonesia. The rapid flow of globalization and technology advancement, especially communication and information technology have an impact on how easy a person is to access anything that they need and want. Smartphone now becomes a common item for anyone regardless of degree, rank, or age. Children are now very advanced in using smartphones. People are amazed when they see a baby suddenly stop crying because he is given a cellphone. For some parents, giving a cellphone to their child can make their work easier. Parents do not have to bother with and guide their children in doing their homework or assignments because their children can easily get answers to these tasks by browsing using their cellphones. Those parents, without even realizing have lost their moments with their kids. Moreover, they have lost their chance to monitor their children's development as well as guide and direct their children. Children tend to develop their own characters. Unfortunately, they may become

individualistic and apathetic individuals because the emotional bonds between parents and children are no longer nurtured.

Advanced technology has a great impact on human life. The technology is present so rapidly, whether you want it or not, like it or not, and are ready or not, it keeps on continuing. The advancement of communication and information technology will be accepted by people. Individual freedom in seeking and selecting information on various things will make any difference. These differences will affect their values and culture, and as a result, it will blur the boundaries of local culture. Culture is no longer something that must be lived in but something that can be chosen [1]. Therefore, cultural boundaries will have a wider meaning due to acculturation from various geographical aspects. Mobility and the process of socialization as a result of crossing geographical boundaries will cause a person's cultural foundation to change, changing with another cultural foundation. Such a process of change

will erode people's loyalty to traditional culture so that over time it will fade.

The shift in cultural values due to the currents of globalization should be anticipated. Advances in communication and information technology do not only provide easy global access across borders but also raise some phenomena. These phenomena should be addressed wisely. To respond to this, what might be done is to build the character of the community so that people have an awareness of preserving cultural values and local wisdom. Future education needs to be focused on the humanities, thus building human character so that they can identify their own needs as well as improve critical thinking and sensitivity.

One of the advantages of this globalization process is the ability to obtain knowledge and information rapidly. In the aspect of culture, the easiness of communicating may increase the number of interactions across cultures. The process is more open, faster, cheaper, and more private. Moreover, the current era is supported by the emergence of the Fourth Industrial Revolution which greatly affects the complexity of human life.

The presence of the Industrial Revolution cannot be avoided by anyone, developing without compromising whether the individual is ready or not. Individuals who are ready take advantage of it, but those who are not ready will get into trouble. Efforts are needed to compete with other individuals who have been able to adapt. This also applies to the world of education. Students, teachers, and administrative staff must struggle to adapt to these fast-paced changes. Moreover, the current COVID-19 pandemic situation has accelerated the pace of the Industrial Revolution. The education sector is greatly impacted by these rapid changes. Moreover, the government adapts quickly by making new policies related to distance learning programs.

A learning process changes from a conventional (face-to-face) to the virtual one. This makes it possible to form new culture which tends to be different or even far from its root. Moral values, for example, tolerance, tolerance, mutual respect, sense of responsibility, discipline, and so on can be ignored. If this is allowed to continue, it can gradually erode and weaken the cultural values of the nation. Questions that have arisen so far are whether the younger generation will lose their identity and what strategies can be applied in education, specifically arts and culture education, to save the nation's young generation.

2. DISCUSSION

2.1. Globalization

Globalization is a global process with no time and distance limit. Communication and information are

widely open to anyone, anywhere, anytime. People can get the information that they need instantly. To know how someone's condition is, people do not need to take a tiring long journey anymore as audio-visual communication media is provided by the smartphone.

The era of globalization era offers various conveniences in human life around the world. Information and science are widely open in that allow anyone to access them. However, these conveniences bring both advantages and disadvantages. Advantages will improve the quality of life, but the disadvantages should be eliminated.

The globalization process is inevitable. Western cultures have come and infiltrated our cultures. Although their cultures are not always negative, this country needs to preserve its own culture. The cultural values must be maintained and harmonized with the adopted culture. Therefore, people can explore and innovate in improving the standard of life without having to weaken or even ignore local values.

2.2. Making Indonesia 4.0

Industry 4.0 era encourages the Indonesian Government to make its visions by launching the roadmap: Making Indonesia 4.0. This goal is to take advantage of Industry 4.0 in order to create wider employment opportunities and expand new technology-based investments [2]. Moreover, it aims to take Indonesia to the position of the 10 largest economies in the world by 2030. The visions are presented below.

- a. improving material production flow in the upstream sector
- b. redesigning industrial zone,
- c. accommodating sustainability standards in order to increase global competitiveness,
- d. improving human resource quality,
- e. creating innovation for the ecosystem,
- f. providing incentives in technology investment,
- g. managing rules and policies harmoniously,
- h. empowering of MSMEs,
- i. developing digital infrastructure,
- j. attracting foreign investment.

Point d implies that there is a need to develop human resources in accordance with Pancasila. Due to its meaning, Pancasila contains all important principles that serve as the basis of the nation. Pancasila is the nation character and social contract [6].

The presence of the Industry 4.0 is no longer an option because it has been going on in this life. The phase of the Industrial Revolution 4.0 greatly affects human life in a complex manner. It spreads without compromise on whether individuals are ready or not. Individuals who are ready will benefit and take advantage of it. However, those who are not ready

will face many problems ahead. Thus, they need to catch on to the gap by adapting.

Industry 4.0 is a progress built on the foundations that were laid out in the previous revolution era. The term is synonymous with digitizing and automating the combination of the internet and manufacturing [2]. This is shown by the massive development of technology in various aspects of life. The use of technology is characterized by very significant advancements in communication and interaction.

How humans communicate and interact with each other through the virtual world has changed lives and lifestyles. Advanced technology and internet access support people to do interaction without distance and time limit. This will slowly shift the patterns of relationships and interactions between people because their perspective, lifestyle, and interaction are disrupted.

Industry 4.0 has impacted not only the aspect of technology but also other aspects of life, namely politics, economy, education, and socio-culture. In the political field, the number of people participating in politics is increasing due to the availability of internet access. People can now get or find information about political situations and issues easily. People who previously did not want to know about politics, become political observers themselves. In the economic sector, it is clear that there is a transformation in the transportation service, for example in online-based transportation service and online-based culinary services (Gofood and Grabfood).

The impact of Industry 4.0 in the field of education is seen from flexible talent development. Information related to science is easily delivered. It is an opportunity for individuals with talents to self-learn due to the abundant resources. Thus, people can easily become experts in any discipline without getting formal education. It is possible for a person to have the ability to learn independently, to become a self-taught expert.

In the formal education aspect, students, educators, and administrative staff must struggle to adapt to the fast-paced changes. The current COVID-19 pandemic has forced the Government and society to take anticipatory steps to prevent this nation from falling. The Indonesian Government's policy to save the education field is by providing a distance learning program. Students, educators, and administrative staff should be aware of the need to adapt to the new situation and then provide facilities and infrastructure for learning.

The presence of the Industrial Revolution 4.0 has indeed had a positive impact, that it can lead humans to progress in all aspects. However, there are negative impacts that are related to changes in human

civilization, lifestyle, character, and social interactions. This fact must be addressed wisely by always adhering to the philosophy of life of the Indonesian nation, namely Pancasila.

2.3. Local Wisdom and Culture Shift

Local wisdom is a legacy of the older generation. It is part of the culture inherent in human life. Local wisdom comes from local cultural values that have survived from generation to generation and are inherited and become part of the life of a people of a nation. Local wisdom is reflected in lifestyle, traditional literary forms, art, health, architecture, environment. The instillment of local wisdom in a society is usually called tradition.

Local wisdom is an identity, character, or personality of a society and nation's culture [3]. Due to culture, a nation is able to receive or reject other cultures from other countries. Local wisdom depends on the environment and the needs of certain local communities. Local wisdom is not only a tradition that must be preserved but also as a provision for the community in responding to the challenges of the times.

There are some characteristics of long-lasting local wisdom. Due to the characteristics, the local wisdom may exist longer as (1) it can withstand foreign cultures, (2) it has the ability to accommodate foreign cultural elements to the original culture, (3) it has the ability to integrate foreign cultural elements into the original culture, (4) it has the ability to control the negative impact of a foreign culture; and (5) it has the ability direct cultural development. The rapid flow of globalization and the Industry 4.0 trend has put local wisdom in a critical condition [3].

Culture is no longer only defined as something systematic, structured, and historical. It is more like a way for humans to experience their world, to feel, to interpret, to consider, and to imagine the world. It is the result of a continuous process of interaction with other communities in a certain period of time) [5]. In this digital era, culture, which by linguistic analogy is considered to contain a standard and definite form will certainly experience shocks.

The advancement of technology has played an important role in enhancing human civilization. Human life progress will certainly have an impact on people's ways of thinking, behaving, and interacting. These changes occur slowly but surely and eventually will shift the cultural values that used to serve local and national identities. Cultural traditions that were individual identities are now controlled by individuals.

It is a fact that western cultures have dominated the whole world. Developing countries such as Indonesia are in a position of taking the

cultures. In this position, local cultural traditions will clash with foreign cultures. Thus, as a large nation with noble cultural values, Indonesia must rise and move on. Efforts that can be done to stop taking western cultures are building the character of citizens by instilling Pancasila values on their morals. This effort is done to filter the foreign cultures as well as internalize the local cultures to the young generation [6].

In this situation, internalizing the nation's noble values based on Pancasila principles becomes very urgent and relevant. Cultural and traditional values should be preserved. Although Indonesian people should become global citizens, they are responsible for keeping the integrity of the nation by preserving the cultures.

2.4. Art Education Urgency

The role of the education sector in developing a national identity is not limited to certain subjects. All teachers teaching any subject, including art education have the responsibility and opportunity to contribute to its implementation. Art and culture education includes cultural-based art subjects, for example, music, fine arts, dance, and theater/drama.

Through art and culture subjects, local wisdom and good character values can be instilled. Therefore, it is very important for the younger generation to know and learn art and culture subject that teaches local wisdom of areas in Indonesia. Besides, by learning the subject, students may develop their nationalism and participate in culture preservation regardless of their diversity.

The values that can be instilled through the art and culture subject include tolerance, respect, nationalism, honesty, discipline, democracy, etc. Through art and culture subjects i.e., dance education, character education can be applied based on four psychosocial processes [7], namely thinking, feeling, exercising, sensing. The values contained in thinking include being intelligent, critical, creative, innovative, curious, open-minded, productive, science and technology-oriented, and being reflective. Then, the values contained in the feeling are honesty, faith, and piety, trustworthiness, fairness, responsibility, empathy, and courage.

Likewise, when body exercising, the students may develop some values, such as resilience, cleanliness, healthiness, sportsmanship, as well as reliable, resilient, friendly, cooperative, competitive, and cheerful characters. At last, when the students try sensing, they will learn some values i.e., caring, friendliness, politeness, kindness, respect, tolerance, helpfulness, cooperation, nationalism, nationalism, hard work, work ethic, and persistence [7].

In the implementation, teachers can ask students to do the task of making dance creations based on regional dance movements as a group. In that way, they will work together in designing, exploring, arranging movements, integrating with the music, and presenting the results.

The competition arts may become the efforts to develop the youth characters because the sense of logic and aesthetic is balance. To prevent the negative impact of technological advances, especially telecommunications and information, students can be explored and use their creativity, for example, by making posters using the CorelDraw application.

Cultural advancement is an effort to increase cultural resilience and contribution of Indonesian culture in the midst of world civilization. Law Number 5 of 2017 concerning the Advancement of Culture implies that the Government's efforts related to Objects of Cultural Advancement which include elements oral traditions, manuscripts, customs, rites, knowledge, traditional technology, art, language, folk games, and traditional sports [4]. The object of Cultural Advancement is useful for building national character, increasing cultural resilience, increasing public welfare, and increasing Indonesia's active role and interaction with other nations

Efforts to build national character and increase cultural resilience can be carried out through internalization of cultural values, innovation, adaptation to change, cross-cultural communication, and intercultural collaboration. The process of internalizing cultural values cannot be separated from the involvement of the three pillars of education, namely: family, school, and community.

2.5. Family

Family is where parents educate, nurture, inform children about certain things. It has a very crucial role in building children's personalities. Parents are also very influential because they are role models for the children. Thus, they need to teach the children to be honest and polite.

2.6. School

School is the main support in the character education process. Character education is carried out in an integrated way in all subjects, not limited to Religion and Citizenship Education subjects. School assignments are not only developing intellectual intelligence, but also emotional and spiritual intelligence. Students are expected to possess piety God Almighty and responsibility to fellow human beings, creativity, and independence.

2.7. Community

The community has an equally important role in efforts to build the nation's future generations' characters. Because families and schools are in the community area, the local community should care and play a role in character education. Community leaders or authorities in society, as well as parents should be good role models for children. Besides involving in character education, the community, in general, should create a conducive situation.

3. CONCLUSION

Advanced technology is a great force that has been and will continue to affect human life. Its presence is inevitable. Whether want it or not, like it or not and ready or not, people should face it. One of the results of technology advancement is the freedom in accessing information which leads to behavioral differences.

It is a fact that western cultures have dominated the whole world. Developing countries such as Indonesia are in a position of taking the cultures. In this position, local cultural traditions will clash with foreign cultures. Thus, as a large nation with noble cultural values, Indonesia must rise and move on. Efforts that can be done to stop taking western cultures are building the character of citizens by instilling Pancasila values on their morals. This effort is done to filter the foreign cultures as well as internalize the local cultures to the young generation.

Efforts to build national character and increase cultural resilience can be carried out through internalization of cultural values, innovation, adaptation to change, cross-cultural communication, and intercultural collaboration. Art education at schools through art and culture subjects will help instill cultural values in learning. Although parents and the community should be involved in character education, art education plays a crucial role in developing student tolerance, democracy, civilization, intellectuality, sensitivity, and creativity.

REFERENCES

- [1] Abdullah, Irwan. *Konstruksi dan Reproduksi Kebudayaan* [Cultural Construction and Reproduction], Yogyakarta, Pustaka Pelajar. Ismail Sunny, et al (1980).
- [2] Haqqi, Halifa, and Hasna Wijayati. *Revolusi Industri 4.0 di Tengah Society 5.0: Sebuah Integrasi Ruang, Terobosan Teknologi, dan Transformasi Kehidupan di Era Disruptif* [Industrial Revolution 4.0 in Society 5.0: An Integration of Space, Technological Breakthroughs, and Transformation of Life in a Disruptive Era]. Yogyakarta: Quadrant (2019).

- [3] Mangundjaya, Wustari L. *Kearifan Lokal, Budaya, dan Pemimpin Perubahan* [Local Wisdom, Culture, and Leaders of Change]. Yogyakarta: Graha Ilmu, 2019.
- [4] Nugroho, Riant. *Kebijakan Membangun Karakter Bangsa* [National Character Building Policy]. Elex Media Komputindo, 2018.
- [5] Sugiharto, Bambang. *Kebudayaan dan Kondisi Post-Tradisi: Kajian Filosofis atas Permasalahan Budaya Abad ke-21* [Culture and Post-Traditional Conditions: A Philosophical Study of 21st Century Cultural Issues]. PT Kanisius, 2019.
- [6] Sumaryadi dan Susilo Pradoko, *Pedagogi Kritis: Bagi Dunia Pendidikan* [Critical Pedagogy: For the World of Education], Yogyakarta: Charissa Publisher, 2018.
- [7] Zuchdi, Darmiyati, Zuhdan Kun Prasetya, and Muhsinatun Siasah Masruri. "Model pendidikan karakter terintegrasi dalam pembelajaran dan pengembangan kultur sekolah [The character education model is integrated in the learning and development of school culture]." *Yogyakarta: Multi Presindo* (2013).