



TRANSFORMATION OF DIGITAL EDUCATION SYSTEMS IN THE ERA OF GLOBALIZATION

Reni Meirina Rifanti¹⁾, Ida Rindaningsih^{*,2)}

¹⁾ Islamic Education Management Study Program, Muhammadiyah University of Sidoarjo, Indonesian

²⁾ Learning Technology Study Program, State University of Malang, Indonesian*Email Penulis

Korespondensi: rifanti.renimeirina@gmail.com¹, rindaningsih1@umsida.ac.id²

Abstract. The era of globalization demands teacher skills in mastering digital technology media. Teachers delivering material must be professional and in accordance with the needs of students in the era of globalization. Several studies have shown that during the pandemic, teachers adapted to technology quickly, however, there were still many teachers in remote areas far from urban areas who had difficulty implementing digital media learning. For this reason, the purpose of this study is to analyze the transformation of the digital education system in schools that are far from urban areas. The method chosen in this study uses the SLR (Systematic Literature Review) method or a literature review. A Systematic Literature Review has been conducted by reviewing all articles related to the transformation of the digital education system in the globalization era for 2017 – 2023. The articles used in this research are 5 national and international accredited journal articles accessed from Science Direct, DOAJ and Lens.org. This research makes a scientific contribution regarding the importance of mastering digital technology as a transformation of the digital education system in the era of globalization.

Keywords - . System Transfomation Education

I. INTRODUCTION

Digital transformation is very important for all things in various types of fields, so it is likely that it will be regardless of the size of the various activity sectors. Regarding the problem of dematerialization through the work process, this approach allows for a management system to be able to optimize the course of an operation, and to obtain various things about performance, which are efficient, and have competitive advantage through the adoption obtained from management mode, through new tools, also through new work methods, but this is also a reflection and besides that it also gets a new organization. Digital transformation has something that can be used as a topic with all the attention that must have certain significance and can produce very strategic issues in all kinds of management systems. within the organization so that it will become part of the activities that are carried out every day by the group. The meaning of understanding digital-based technology is one of the tools as a trigger which has very serious consequences to bring up an opportunity that can be utilized by most of the group. The opportunities needed must be obtained from those that can be changed and one of them is from various aspects that have been taken as follows: aspects of the business model, aspects of the operational model, aspects of experience with consumers, and others. being obtained from a group makes it possible to obtain various advantages to be able to produce very new value (value a creation). Digital Technology can increase the profitability of the education system by simplifying the whole process and also by entering into the interactions between management and for students. [1] In general digital transformation is a process that can be taken radically within an organization and can be used through human resources, as well as can be used through technology maybe in this case that can cause that organization to experience significant changes . Digital transformation can be interpreted from most researchers with all the influences that can show that the process of using digital technology can have an influence contained in it and this can also be available in it such as virtualization technology, or from computers that are moving towards the cloud which can also combined through other media.[2] Apart from that, you can also get it because digital transformation or digital transformation can very easily be interpreted as a change that can result in handling work that must be able to quickly be used as information technology which can be obtained from something that is efficient and effective. This new experience can be realized well if the value obtained must be new that can be obtained from the community, such as providing all conveniences for making transactions, making purchases, making all communications, and so on.[3]

Digital transformation is a transformation that has a process that may be considered very traditional and can experience a few very big changes to become digital. Maybe it can be seen that there is an actual process of occurrence because initially there will be changes to digital transformation which at least must be carried out quickly through several types of phases. From this phase, digitalization will occur, that there is a difference between digitalization and digital transformation. In the education system, in essence, has a set of means obtained

to produce a culture of values contained in the culture produced by the community as well as those that have undergone changes in forms and models that have been determined according to demands, including the need for social life, in this case. to pursue the ideals of life that produce prosperity both physically and spiritually. Schools or madrasas in the current era of globalization must be able to face various significant problems. So this form of implementation is contained in education which must be in Madrasas/schools and besides that it must be able to deal with current developments or technology such as: television, mobile phones, computers and so on. Madrasas that have this technology can be further expected to produce a positive impact on students in an Islamic education, especially in madrasas that are on the outskirts. [4] [5] In the era of globalization, this has occurred in various types of regions which include countries in parts of the world. All of that must also be interconnected with one another. As if that had happened and there was no border that could be a border (borderless). In this case it can provide information that can be produced openly contained in an area that is clearly contained therein which can also be known to the public and immediately can be obtained from residents in other areas. In the beginning it will continue to happen after the emergence of the digital era, it has also been obtained easily to replace something that has been dominated during the conventional era. The digital era was born from the womb and can be obtained rapidly in increasing developments in the era of globalization.[6]

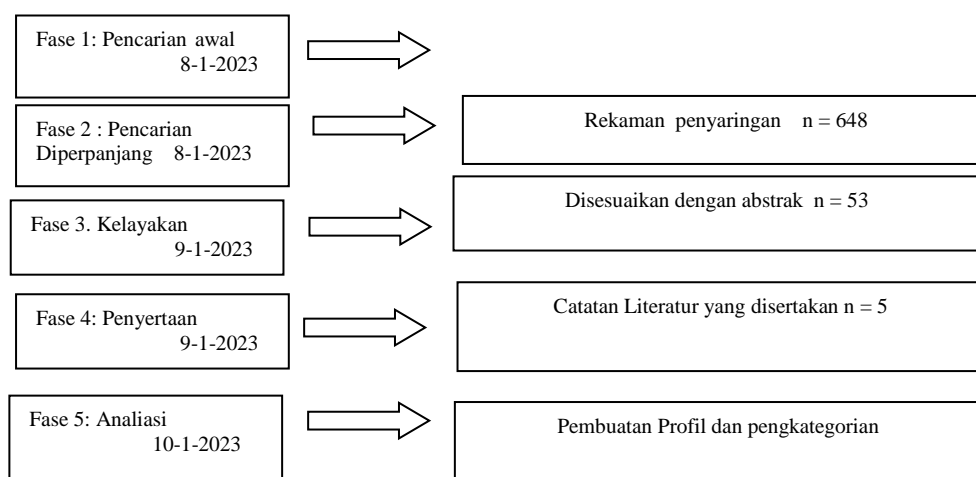
Globalization as an era where all kinds of changes that are obtained between countries from one country to another can no longer be limited by distance and that must be determined by time. At this time, it is possible to emerge from a development in the form of knowledge which is indeed obtained in an extraordinary way to produce various kinds of knowledge, in this case which is especially devoted to the knowledge of Information and Communication Technology 82 (I C T) which is also must have very sophisticated technology so that it makes this world seem to be getting very narrow. Everyone can easily access information that can produce various information about science, in the form of news, and a lot of other information by being able to take advantage of all kinds of technology. Of course such incidents can affect all sectors in life. One of them is in the form of the development of education which is in Indonesia. Changes in this era may not be avoided for everyone, therefore preparation will be needed, especially those obtained from human resources (HR) and must be sufficient so that they can be adapted to the ability to achieve results in this globalization era. The improvement resulting from the quality of human resources must be followed through the path of the education system which must start from basic and secondary education so that more can be obtained from the tertiary institution and as the key to being able to keep up with developments in the Globalization Era. Education can also play a very important role through means of being able to improve quality, especially in the community which can guarantee sustainability in the development of a nation, that is why education is the most important instrument in developing human resources, in this case this development is not only obtained must be based on the quality of humans to master specific skills, but will furthermore be used as a reliable human being (desirable person quality), and humans must be creative, innovative, and must have a competitive nature.[7]

II. METHOD

This research is in the form of SLR (Systematic Literature Review) or a literature review. SLR (Systematic Literature Review) is in the form of a subject matter contained in the form of a journal which contains theoretical reviews, findings/problems and material contained in it from other research that has been obtained then takes the material as a reference to be used as a basis/discussion of a study. The Systematic Literature Review must contain reviews, summaries, and can be generated from thoughts obtained from authors who refer to library sources including (articles/journals, books/references, slides, information/studies obtained from the internet, etc.) on the topic of discussion which need to be discussed further in the article. The search method for an article/journal can

Basic Data: Sinta, Lens.org, Scopus, Google Scholar
n = 4952

be in the form of a database in research journals and the search must be through the internet media. The methodology adopted and studied in the prism system review can be described



At the identification stage, journal articles were collected by taking the following keywords, namely the transformation of the education system from the year of publication 2017 to the year of publication in 2022 (4952 articles). Articles found with the keywords digital education system transformation starting from the 2017 year of publication to 2023 publication year (755 articles). The screening stage based on the title and abstract (effectiveness and impact) with the keywords digital education in the era of globalization was published starting in the 2019 year until 2022 (648 articles). At the feasibility stage, 53 full-text articles, the keywords for the transformation of the digital education system in the globalization era, were published starting from the 2020 to 2022 publication years with topic relevance downloaded. Full text articles should be scannable to check, in obtaining the suitability of the topic for the purposes of the research. Articles of the type "reviews", can be done in elementary schools to tertiary institutions from the analysis that has been taken. In the final stage, there are 5 articles that must be found, which have been narrowed down from the number of articles that have thousands. The keywords for digital education transformation were published from the year of publication in 2017 to the year of publication in 2023. Then, a final screening was carried out which really matched the criteria for keywords in the research title, 5 articles were obtained. The articles reviewed in this study are listed in table 1.

Table 1 digital education transformation taken from the title of transformation of the digital education system in the globalization era, published in 2017 to 2023.

Indicator				
Title Transformation of the digital education system in the era of globalization	Digital Technology	Title Transformation of the digital education system in the era of globalization	Digital Technology	Title Transformation of the digital education system in the era of globalization
Digital transformation of thematic learning in schools during a pandemic (1)	√	√	√	√
The Reality of Digital Transformation of Education in Elementary Schools During the Covid 19 Pandemic (2)	√	√		√
Education System, Education as a System and Components and Interdependencies Between Education Components (3)	√	√		√
The Role of Technology in Education in the Era of Globalization (4)	√	√	√	√
Identification of Digital Transformation in the World of Education Concerning Opportunities	√	√	√	

and Challenges in the Disruptive Era (5)				
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Based on the results of that search, what the author obtained and will discuss first may be obtained from hundreds of articles so it is necessary for the author to examine that there is a criterion that must be obtained and carried out homogeneously which is already contained in the articles that have currently been found. as it should be so that there are more about the existence of articles that have been obtained not too many references besides that it should also be even more shortened. For this Systematic Literature Review, it can be carried out by means of synthesis by using a method in the form of a narrative system by grouping data that can provide very extractive achievements or the like according to what must be in accordance with the results or achievements that have been measured previously to be answered directly by having clear goals from research journals that have been adjusted previously even easily having inclusion criteria which can then be collected and made directly in the form of a summary of a journal which in this case must include the name of the researcher, year of publication of the journal published it must exist, the research must be real and clear, the title of the research must exist because it includes basic needs, the method and summary must be able to provide results or findings that must be in accordance with facts or real. The summary of the journal from the research can be entered into the table and then sorted according to alphabet and must have the year of publication of the journal that will be examined further and must be adapted to the analysis used by carrying out 5 types of analysis in the form of the contents of the journal, then coding can be done on the contents of the journal and then it must be reviewed using a method that can determine the category of psycho-spiritual from the data that has been detected or has been collected at the previous time, then when the time comes, we will look for the similarities and differences and then discuss them briefly. and only after that can be drawn in the form of conclusions. The data that will be used by researchers at this time in this study is in the form of secondary data. Based on search results through Google Scholar using keywords about the transformation of the digital education system in the globalization era, researchers can find 5 journals that must match these keywords. In total, only 5 journals of the journals found have been adjusted to the keywords for searching these 53 journals which must then be screened, 5 journals have been excluded because they are not available in full text articles.

III. RESULTS OF DISCUSSION / DISCUSSION

We may have encountered many advances in technology at this time in the form of digital media, so that it can be influenced by adults in how to provide learning to children. in the era of globalization that can be obtained or used as an all-in-one digital system which is often done by educating children which is carried out between parents and their children, there are still not many changes made, first so that changes are made by playing together with their students. However, we need to know that in this era, many have experienced various changes in the way of educating children, for example, it is now easier for parents to provide knowledge so that they can further introduce all kinds of digital to children and do it in various positive ways so that children can be quiet. during activities and can reduce the level of fussiness in children [8]. The development of education in parts of the world cannot be separated from the developments in the era of globalization that have occurred in the world, because in this case, indirectly, the changes can be said to be the order of an economy that can change the order of education in a country. In the era of globalization it can be done as follows. 1) It must be known more clearly that the era of globalization has occurred in the 18th century, it may have been known from the discovery of the existence of machines that produce steam, therefore it must be known that there are machines that produce steam. continuously to produce it in bulk or together in large quantities, 2) in the era of globalization it was carried out in the 19th to 20th centuries through the use of electricity which made production costs cheaper, 3) In the era of globalization that was carried out in the 1970s which was produced through the use of computerized technology, and 4) in the era of globalization, perhaps it was carried out around the 2010s, many invalid results were found in it in the form of intelligence through the internet of things as the backbone. back to a current move This is done in the form of connectivity between humans and machines. The emergence of machines that use steam fuel in the 18th century can first produce and be able to accelerate the economy quickly and logically where it must be done in a period of two centuries and can be done quickly to be able to increase per capita income to the country -countries of the world can then be multiplied sixfold.[9] Education is not spared from the part of human effort that cannot be separated from the existence of a change above. In education, it is necessary to welcome the beginning of the renewal era to make changes towards the future. The era of renewal is meant to be the era of globalization, that is in a discourse that is currently required to demand to be able to prepare everything. In this era of globalization, is it required as input to provide an opportunity, or to turn it into a challenge that is currently being carried out by society? It will be a joint work, that is, the community must first be able to prepare that the resulting education

system can be obtained by these participants who are willing and ready to carry out learning in the era of globalization, namely in carrying out a process that can provide better learning for students in an all-round situation. digital always undergoes significant changes and to show a learning experience and at this time will make it more meaningful for students. The changes made are very dramatic in using educational applications in the era of globalization which have experienced various expansions and that may not stray far from information technology practices that have been studied and exist throughout the world. Learning in the era of globalization can create excellent opportunities for students. when there is the ability to generate new digital. The ability to be able to adapt to the new digital emergence is needed by students. For this reason, most of the power for creativity is needed to be able to search for various new possible information through digital technology. Students must have a very high level of literacy in digital which is new to digital, digital is very easy to be enjoyed using this technology and can be used to search for and browse all possible types of information that will be very important for learning purposes. Therefore, thus, students can obtain a number of types of information that are very important in meeting the needs for learning and then further changes will be made to obtain the information that will be needed. [10]

Related technological developments as well as new marketing and logistics procedures to improve service effectiveness, increase operational efficiency, increase revenue, and maximize mutual benefits. [11] Education in the country of Indonesia will be more found using literature from Western countries which has a sterile level and is also inseparable from the values contained in growing a sense of faith and Islam. Therefore, the data sources obtained can produce information that has more balance than writers who have literature on science based on Islamic values, but that does not mean that they can make a dichotomy between general science and religious sciences. Education is not only limited to the wilderness of skins which can produce theories that will only give birth to education that has a "dogmatic" nature and does not appear "creative".[12] The old skills that can only be relied on are in the form of skills in reading, writing and mathematics lessons that must be strengthened. The ability to education must also be prepared. This is an conscious and planned effort that can create a learning atmosphere that is conducive to learning by students. running actively to be able to be developed through his potential to be able to gain spiritual strength regarding religion, self-control, personality towards himself, the level of intelligence that must be possessed, must have noble character, and have their own skills, towards society, nation and state according to Law Number 20 of 2003 article 1:1. [13] This digital transformation has the benefit of changing human behavior including entering between educators and their students, in which it can be used to browse, study, document, and reopen teaching materials that have been adapted to needs. During this pandemic, the world, especially in the world of education, both in schools and in universities, must be able to adapt. The paradigm shift from conventional learning to online, of course, requires a lot of time because that should be related to the paradigm shift in academic culture. In addition, the lack of facilities, geographically, the economic problems that arise, as well as differences in the mindset of students who are far from remote areas and urban areas that make a large number of challenges that are obtained from parts of the world towards education besides that in facing the transformation digital has been done in this era. The pesantren/madrasa education system is an education system that has long existed in parts of the world. Islamic boarding schools existed before colonialism existed, during colonialism until Indonesia was free from the clutches of its colonialists. In the early days of the emergence of the pesantren/madrasah it was pioneered (of course the system was far different or far behind today) for the purpose of da'wah or the process of Islamization for indigenous peoples, but during the colonialism period historical facts emerged which could provide data which would have the form of a system education that can be hegemony by colonial activities. [14] Online learning can run more effectively in digitally developed countries, which is why it is not running effectively in Indonesia. Indonesia is a very big country, not all Indonesian people have good access to internet connection. He makes the process of learning online or learning from home an obstacle. Students who can access via the internet can be obtained from smartphones that can be utilized in online learning because there are a large number of media with online systems that cannot be accessed by the internet with smartphones. The unexpected shift to online learning has become a measure of organizational agility, with some academic institutions primarily focusing on the transfer of educational content to the digital world and not particularly on online teaching and delivery methods.[15] The digital transformation of higher education has been discussed in the last decade, and this vision relates to many aspects, such as managerial strategies, asynchronous collaboration, and the use of communication tools. [16].

Distance education via the Internet is increasingly exploding at the college level. The University of Phoenix is America's most successful online university. It has more than 100,000 students overall, including more than 30,000 online students. As busy people realize they need more education, they are increasingly choosing to take distance education courses.[17] Learning with online media is learning about education that takes place through the Internet media. It is a form of learning that is carried out remotely to provide a learning experience in education that is applied to students, both children and adults, to access education from remote locations or who for various reasons cannot attend either vocational schools or universities.[18]] the impact of digitalization on the performance of international new businesses. Scholarships are increasingly examining the feasibility of digitization.[19] The use of the education system consists of several indicators, including: 1) Who can easily use

the first point to get the human component in the opinion of James G and E. Aydin is anyone who has used, used the education system. This will be based on who uses and who does not use the education system. What factors are currently influencing the decisions of individuals in the use of the system. 2) According to Bhattacharjee's opinion, the form of evaluation is evaluative in the use of IT. This has expectations that can be interpreted as an addition in determining satisfaction, because these expectations can provide a baseline or reference level for consumers in forming evaluative assessments of local products and services. 3) Attitude in accepting the education system in the opinion of Al Gahtani and King states that the attitude to accept must focus into the implementation of management information systems because research can determine the success or failure of the resulting information technology products. 4) Training According to Syihabuddin, training is a good activity that seeks to change and improve and develop attitudes that are obtained either through skills in order to be able to improve the professionalism of performance between staff or employees in a group so that the group can develop and have good efficiency. [20]

Learning from home online requires internet connectivity, computers or devices, and virtual classes as a forum for interaction between teachers and students. The use of internet networks and multimedia technology can reconstruct the teaching and delivery of learning materials in the technology 4.0 era. From the digitization process itself, it means that digitization is a process in which it takes a traditional form to an all-digital form, in which case we can take some examples from the world of recordings of music, which previously could be in the form of a cassette, it could also change to a digital form. MP3 and can also make mass media in the form of newspapers or newspapers and also turn into e-paper. Meanwhile, the meaning of digitization is that everything that is in process can also result in the form of a business that was previously whereas conventionally it can turn into a process that is digital. An example in this case is the occurrence of a paper reduction system that has undergone a change to become paperless, it must also be able to reduce face-to-face media and all kinds of transactions that are caused to go towards long distances. In the era of globalization, there are all kinds of opportunities in the world for education, especially in schools which still make it a second choice and can then be shown in terms of choices at the level of education.[21] The digital-based education system and the important role of digital media in the current learning system and methods can be utilized by various kinds of digital media that can be accessed via the internet with remote media or during. The digital education system and the concept of independent campus learning are synonymous with using e-learning technology such as the Learning Management System, Video of Conferencing Tools, Digital Library And Database Tools, and so on, according to the study of Goldin et al.[22]

Kesimpulan: ringkasan yang ditulis oleh penulis sebagai hasil dari pembahasan yang mana didalamnya menjelaskan tentang dimana transformasi system digital apakah bisa berdampak kepada perkembangan zaman pada era globalisasi saat ini.

Ucapan Terima Kasih: ditujukan kepada seseorang yang berperan aktif dalam membantu penulis untuk berupaya mengembangkan jurnal ilmiah ini lebih baik.

Daftar Pustaka: Semua rujukan-rujukan yang diacu di dalam teks artikel harus didaftarkan di bagian Daftar Pustaka. Daftar Pustaka harus berisi pustaka-pustaka acuan yang berasal dari setidaknya 80% sumber primer (jurnal ilmiah) diterbitkan paling lama 7 (tujuh) tahun terakhir. Setiap artikel paling tidak berisi 10 (sepuluh) daftar pustaka acuan. Format sitasi dan penyusunan daftar pustaka harus mengikuti **format IEEE**. Penulisan rujukan di dalam teks artikel dan daftar pustaka sebaiknya menggunakan program aplikasi manajemen referensi, misalnya **Mendeley, EndNote** dan **Zotero**.

V. PANDUAN PENULISAN PERSAMAAN

Setiap persamaan ditulis rata tengah dan diberi nomor yang ditulis di dalam kurung dan ditempatkan di bagian akhir margin kanan. Persamaan harus dituliskan menggunakan *Equation Editor* dalam MS Word atau Open Office, seperti contoh dalam Persamaan 1.

$$\frac{dS}{dt} = \frac{S_0}{\tau} - \frac{S}{\theta_c} - \frac{kSX}{Y(K_m + S)} \quad (1)$$

VI. PANDUAN PENULISAN KUTIPAN/RUJUKAN DALAM TEKS ARTIKEL DAN DAFTAR REFERENSI

Setiap mengambil data atau mengutip pernyataan dari pustaka lainnya maka penulis wajib menuliskan sumber rujukannya. Rujukan atau sitasi ditulis di dalam uraian/teks adalah sesuai dengan **format IEEE (numbering)**. Angka untuk tiap item rujukan ditulis dalam tanda kurung siku, misalnya [1]. Beberapa rujukan dapat dituliskan

dengan kurung siku terpisah, misalnya [2], [4], [6], dan [7]. Lihat penjelasan lengkap di <https://www.ieee.org/documents/ieeecitationref.pdf>.

Penulisan daftar pustaka sebaiknya menggunakan aplikasi manajemen referensi seperti Mendeley, End Note, Zotero, atau lainnya. Contoh rujukan dan daftar referensi dapat dikelompokkan sebagai berikut:

- artikel jurnal online / e-journal dalam [1]-[12]
- artikel jurnal cetak dalam [13] - [14]
- artikel konferensi dalam [17]-[20]
- thesis dalam [15], [21]
- technical report [16]
- standard [22]

VII. KESIMPULAN

The transformation of the digital education system in Indonesia is difficult to avoid with the current situation and conditions. That makes stakeholders in the education sector and within the government must be able to move quickly into a form of digitalization in the world of education. The era of globalization has touched almost every aspect of our lives. At this level of connectivity someone has been influenced by involving other people, to get information, and of course to see the world around them. Therefore, it is not surprising that the trend towards digital transformation also has a major impact on the education industry. From educators in elementary schools to tertiary education, they introduced that digital transformation has influenced the classroom and the way teachers provide education that their students can reach. The emergence of the COVID-19 pandemic can limit teaching and learning activities in schools. Like it or not, we can demand that many schools and teaching staff be able to use information technology in overcoming the condition of students getting this education. There are other important things that may really need to be paid attention to in the transition towards the era of digitalization in the world of education in Indonesia. Not only to be able to apply the use of gadgets with electronic books, but also to change the mindset of teaching staff and students who are involved in it, including from other sectors to make it a supporting sector for the world of education. Humans as the main subject or actor in the development of civilization that needs to be done to adapt to changes made depending on the surrounding environment. educators, students, government and parties related to the education sector need to be changed with a mindset that is towards problem solving, not just surviving in a traditional way. Due to the existence of a mindset revolution that is applied to the world of education, the transformation of the world of education will only produce intelligent people who are smart in using sophisticated technology.

So that it can be defined that the digital transformation of the education system in the era of globalization that has entered Indonesia is a change in the education system towards the mindset between one human being and another human being in exchanging knowledge with the help of technology that is very sophisticated and must be in harmony with the values of Pancasila and the Constitution. Constitution 45 which has been enacted. In improving quality and that is also regarding digital transformation, the education system can be maximally produced for digital infrastructure, a global vision for digital transformation, and a digital education system. The first is to be able to maximize digital infrastructure. Therefore, there must be access to electricity and the internet because they are the basic capital in realizing the transformation of education. In the availability of infrastructure, things cannot be offered anymore or postponed as usual. Second, they must have a global vision in developing digital transformation. The current easy generation is a generation that may already be connected internationally with devices that are clear about digital technology. Therefore, the vision of education should not be confined to only one narrow perspective. Developments and innovations in digital technology in recent years can provide opportunities and convenience for the public in obtaining information to pay attention to space and time. Technology and information that is currently developing rapidly is affecting the joints in human life. Among them are digital media for communication, social life, economy, values for culture and education. The transformation of the digital education system is a change in the system of the human mindset in learning using traditional methods into digital technology. However, in the era of globalization, students can get knowledge from anywhere, for example through the internet. With the presence of internet media, it can make the world in one hand. Therefore we must be able to make preparations for education that can bring students to be able to make preparations in entering the era of globalization. Digital transformation in the world of education must focus on three things, the first is accessibility with digital technology making it easier for students to access all kinds of information on the learning resources they get. Second, interactive learning which is carried out with the existence of technology through learning media, there are many choices that will make students have a passion for learning about education. Third, adaptive learning with the presence of technology makes it possible to have a learning process that can be adapted to certain conditions, namely the needs that are influenced by the environment for students in learning about education. The development of digital technology which has made a large part of civilization

globally is a strong reason for the transformation of the digital education system in the era of globalization that has entered Indonesia. Society must have prepared for changes in the digital education system and welcomed the new digital transformation.

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TRANSFORMATION OF DIGITAL EDUCATION SYSTEMS IN THE ERA OF GLOBALIZATION

Reni Meirina Rifanti¹, Ida Rindaningsih²Islamic Education Management Study Program, Muhammadiyah University of Sidoarjo, Indonesian ¹Learning Technology Study Program, State University of Malang, Indonesian ²rifanti.renimeirina@gmail.com¹, rindaningsih1@umsida.ac.id²

Abstract. The era of globalization demands teacher skills in mastering digital technology media. Teachers delivering material must be professional and in accordance with the needs of students in the era of globalization. Several studies have shown that during the pandemic, teachers adapted to technology quickly, however, there were still many teachers in remote areas far from urban areas who had difficulty implementing digital media learning. For this reason, the purpose of this study is to analyze the transformation of the digital education system in schools that are far from urban areas. The method chosen in this study uses the SLR (Systematic Literature Review) method or a literature review. A Systematic Literature Review has been conducted by reviewing all articles related to the transformation of the digital education system in the globalization era for 2017 – 2023. The articles used in this research are 5 national and international accredited journal articles accessed from Science Direct, DOAJ and Lens.org. This research makes a scientific contribution regarding the importance of mastering digital technology as a transformation of the digital education system in the era of globalization.

Keywords. System Transformation Education

I. INTRODUCTION

Digital transformation is very important for all things in various types of fields, so it is likely that it will be regardless of the size of the various activity sectors. Regarding the problem of dematerialization through the work process, this approach allows for a management system to be able to optimize the course of an operation, and to obtain various things about performance, which are efficient, and have competitive advantage through the adoption obtained from management mode, through new tools, also through new work methods, but this is also a reflection and besides that it also gets a new organization. Digital transformation has something that can be used as a topic with all the attention that must have certain significance and can produce very strategic issues in all kinds of management systems. within the organization so that it will become part of the activities that are carried out every day by the group. The meaning of understanding digital-based technology is one of the tools as a trigger which has very serious consequences to bring up an opportunity that can be utilized by most of the group. The opportunities needed must be obtained from those that can be changed and one of them is from various aspects that have been taken as follows: aspects of the business model, aspects of the operational model, aspects of experience with consumers, and others. being obtained from a group makes it possible to obtain various advantages to be able to produce very new value (value a creation). Digital Technology can increase the profitability of the education system by simplifying the whole process and also by entering into the interactions between management and for students. [1] In general digital transformation is a process that can be taken radically within an organization and can be used through human resources, as well as can be used through technology maybe in this case that can cause that organization to experience significant changes . Digital transformation can be interpreted from most researchers with all the influences that can show that the process of using digital technology can have an influence contained in it and this can also be available in it such as virtualization technology, or from computers that are moving towards the cloud which can also combined through other media.[2] Apart from that, you can also get it because digital transformation or digital transformation can very easily be interpreted as a change that can result in handling work that must be able to quickly be used as information technology which can be obtained from something that is efficient and effective. This new experience can be realized well if the value obtained must be

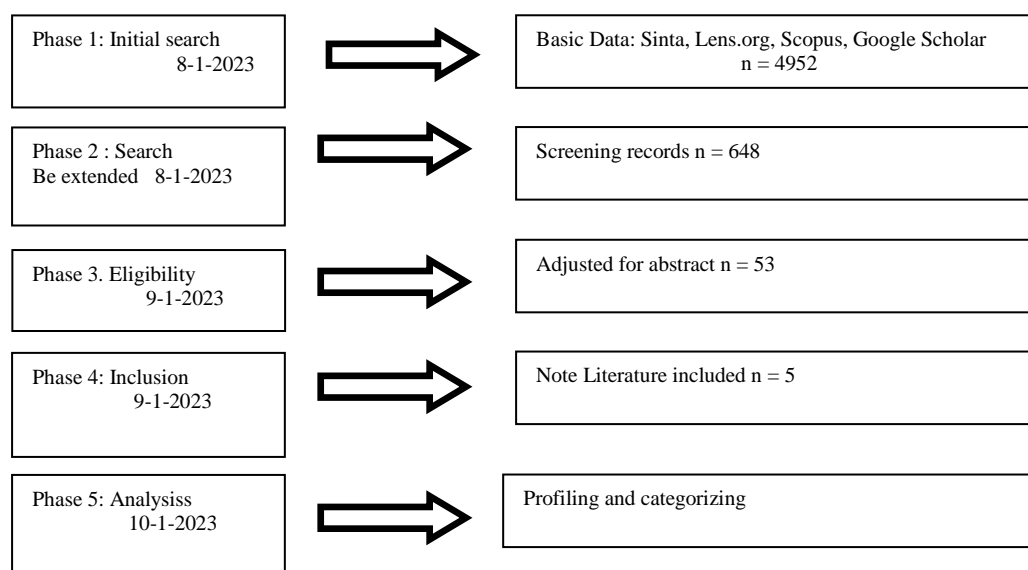
new that can be obtained from the community, such as providing all conveniences for making transactions, making purchases, making all communications, and so on.[3]

Digital transformation is a transformation that has a process that may be considered very traditional and can experience a few very big changes to become digital. Maybe it can be seen that there is an actual process of occurrence because initially there will be changes to digital transformation which at least must be carried out quickly through several types of phases. From this phase, digitalization will occur, that there is a difference between digitalization and digital transformation. In the education system, in essence, has a set of means obtained to produce a culture of values contained in the culture produced by the community as well as those that have undergone changes in forms and models that have been determined according to demands, including the need for social life, in this case. to pursue the ideals of life that produce prosperity both physically and spiritually. Schools or madrasas in the current era of globalization must be able to face various significant problems. So this form of implementation is contained in education which must be in Madrasas/schools and besides that it must be able to deal with current developments or technology such as: television, mobile phones, computers and so on. Madrasas that have this technology can be further expected to produce a positive impact on students in an Islamic education, especially in madrasas that are on the outskirts. [4] [5] In the era of globalization, this has occurred in various types of regions which include countries in parts of the world. All of that must also be interconnected with one another. As if that had happened and there was no border that could be a border (borderless). In this case it can provide information that can be produced openly contained in an area that is clearly contained therein which can also be known to the public and immediately can be obtained from residents in other areas. In the beginning it will continue to happen after the emergence of the digital era, it has also been obtained easily to replace something that has been dominated during the conventional era. The digital era was born from the womb and can be obtained rapidly in increasing developments in the era of globalization.[6]

Globalization as an era where all kinds of changes that are obtained between countries from one country to another can no longer be limited by distance and that must be determined by time. At this time, it is possible to emerge from a development in the form of knowledge which is indeed obtained in an extraordinary way to produce various kinds of knowledge, in this case which is especially devoted to the knowledge of Information and Communication Technology 82 (I C T) which is also must have very sophisticated technology so that it makes this world seem to be getting very narrow. Everyone can easily access information that can produce various information about science, in the form of news, and a lot of other information by being able to take advantage of all kinds of technology. Of course such incidents can affect all sectors in life. One of them is in the form of the development of education which is in Indonesia. Changes in this era may not be avoided for everyone, therefore preparation will be needed, especially those obtained from human resources (HR) and must be sufficient so that they can be adapted to the ability to achieve results in this globalization era. The improvement resulting from the quality of human resources must be followed through the path of the education system which must start from basic and secondary education so that more can be obtained from the tertiary institution and as the key to being able to keep up with developments in the Globalization Era. Education can also play a very important role through means of being able to improve quality, especially in the community which can guarantee sustainability in the development of a nation, that is why education is the most important instrument in developing human resources, in this case this development is not only obtained must be based on the quality of humans to master specific skills, but will furthermore be used as a reliable human being (desirable person quality), and humans must be creative, innovative, and must have a competitive nature.[7]

II. METHOD

This research is in the form of SLR (Systematic Literature Review) or a literature review. SLR (Systematic Literature Review) is in the form of a subject matter contained in the form of a journal which contains theoretical reviews, findings/problems and material contained in it from other research that has been obtained then takes the material as a reference to be used as a basis/discussion of a study. The Systematic Literature Review must contain reviews, summaries, and can be generated from thoughts obtained from authors who refer to library sources including (articles/journals, books/references, slides, information/studies obtained from the internet, etc.) on the topic of discussion which need to be discussed further in the article. The search method for an article/journal can be in the form of a database in research journals and the search must be through the internet media. The methodology adopted and studied in the prism system review can be described in Figure 1



At the identification stage, journal articles were collected by taking the following keywords, namely the transformation of the education system from the year of publication 2017 to the year of publication in 2022 (4952 articles). Articles found with the keywords digital education system transformation starting from the 2017 year of publication to 2023 publication year (755 articles). The screening stage based on the title and abstract (effectiveness and impact) with the keywords digital education in the era of globalization was published starting in the 2019 year until 2022 (648 articles). At the feasibility stage, 53 full-text articles, the keywords for the transformation of the digital education system in the globalization era, were published starting from the 2020 to 2022 publication years with topic relevance downloaded. Full text articles should be scannable to check, in obtaining the suitability of the topic for the purposes of the research. Articles of the type "reviews", can be done in elementary schools to tertiary institutions from the analysis that has been taken. In the final stage, there are 5 articles that must be found, which have been narrowed down from the number of articles that have thousands. The keywords for digital education transformation were published from the year of publication in 2017 to the year of publication in 2023. Then, a final screening was carried out which really matched the criteria for keywords in the research title, 5 articles were obtained. The articles reviewed in this study are listed in table 1.

Table 1 digital education transformation taken from the title of transformation of the digital education system in the globalization era, published in 2017 to 2023.

Title Transformation of the digital education system in the era of globalization	Indicator			
	Digital Technology	Science	Facilities and infrastructure	Internet Network
Digital transformation of thematic learning in schools during a pandemic (1)	√	√	√	√
The Reality of Digital Transformation of Education in Elementary Schools During the Covid 19 Pandemic (2)	√	√		√
Education System, Education as a System and Components and Interdependencies Between Education Components (3)	√	√		√
The Role of Technology in Education in the Era of Globalization (4)	√	√	√	√
Identification of Digital Transformation in the World of Education Concerning Opportunities and Challenges in the Disruptive Era (5)	√	√	√	

Based on the results of that search, what the author obtained and will discuss first may be obtained from hundreds of articles so it is necessary for the author to examine that there is a criterion that must be obtained and carried out homogeneously which is already contained in the articles that have currently been found. as it should

be so that there are more about the existence of articles that have been obtained not too many references besides that it should also be even more shortened. For this Systematic Literature Review, it can be carried out by means of synthesis by using a method in the form of a narrative system by grouping data that can provide very extractive achievements or the like according to what must be in accordance with the results or achievements that have been measured previously to be answered directly by having clear goals from research journals that have been adjusted previously even easily having inclusion criteria which can then be collected and made directly in the form of a summary of a journal which in this case must include the name of the researcher, year of publication of the journal published it must exist, the research must be real and clear, the title of the research must exist because it includes basic needs, the method and summary must be able to provide results or findings that must be in accordance with facts or real. The summary of the journal from the research can be entered into the table and then sorted according to alphabet and must have the year of publication of the journal that will be examined further and must be adapted to the analysis used by carrying out 5 types of analysis in the form of the contents of the journal, then coding can be done on the contents of the journal and then it must be reviewed using a method that can determine the category of psycho-spiritual from the data that has been detected or has been collected at the previous time, then when the time comes, we will look for the similarities and differences and then discuss them briefly. and only after that can be drawn in the form of conclusions. The data that will be used by researchers at this time in this study is in the form of secondary data. Based on search results through Google Scholar using keywords about the transformation of the digital education system in the globalization era, researchers can find 5 journals that must match these keywords. In total, only 5 journals of the journals found have been adjusted to the keywords for searching these 53 journals which must then be screened, 5 journals have been excluded because they are not available in full text articles.

III. RESULTS OF DISCUSSION / DISCUSSION

We may have encountered many advances in technology at this time in the form of digital media, so that it can be influenced by adults in how to provide learning to children. in the era of globalization that can be obtained or used as an all-in-one digital system which is often done by educating children which is carried out between parents and their children, there are still not many changes made, first so that changes are made by playing together with their students. However, we need to know that in this era, many have experienced various changes in the way of educating children, for example, it is now easier for parents to provide knowledge so that they can further introduce all kinds of digital to children and do it in various positive ways so that children can be quiet. during activities and can reduce the level of fussiness in children [8]. The development of education in parts of the world cannot be separated from the developments in the era of globalization that have occurred in the world, because in this case, indirectly, the changes can be said to be the order of an economy that can change the order of education in a country. In the era of globalization it can be done as follows. 1) It must be known more clearly that the era of globalization has occurred in the 18th century, it may have been known from the discovery of the existence of machines that produce steam, therefore it must be known that there are machines that produce steam. continuously to produce it in bulk or together in large quantities, 2) in the era of globalization it was carried out in the 19th to 20th centuries through the use of electricity which made production costs cheaper, 3) In the era of globalization that was carried out in the 1970s which was produced through the use of computerized technology, and 4) in the era of globalization, perhaps it was carried out around the 2010s, many invalid results were found in it in the form of intelligence through the internet of things as the backbone. back to a current move This is done in the form of connectivity between humans and machines. The emergence of machines that use steam fuel in the 18th century can first produce and be able to accelerate the economy quickly and logically where it must be done in a period of two centuries and can be done quickly to be able to increase per capita income to the country -countries of the world can then be multiplied sixfold.[9] Education is not spared from the part of human effort that cannot be separated from the existence of a change above. In education, it is necessary to welcome the beginning of the renewal era to make changes towards the future. The era of renewal is meant to be the era of globalization, that is in a discourse that is currently required to demand to be able to prepare everything. In this era of globalization, is it required as input to provide an opportunity, or to turn it into a challenge that is currently being carried out by society? It will be a joint work, that is, the community must first be able to prepare that the resulting education system can be obtained by these participants who are willing and ready to carry out learning in the era of globalization, namely in carrying out a process that can provide better learning for students in an all-round situation. digital always undergoes significant changes and to show a learning experience and at this time will make it more meaningful for students. The changes made are very dramatic in using educational applications in the era of globalization which have experienced various expansions and that may not stray far from information technology practices that have been studied and exist throughout the world. Learning in the era of globalization can create excellent opportunities for students. when there is the ability to generate new digital. The ability to be able to adapt to the new digital emergence is needed by students. For this reason, most of the power for creativity is needed to be able to search for various new possible information through digital technology. Students must have a very high level of literacy in digital which is new to digital, digital is very easy to be enjoyed using this

technology and can be used to search for and browse all possible types of information that will be very important for learning purposes. Therefore, thus, students can obtain a number of types of information that are very important in meeting the needs for learning and then further changes will be made to obtain the information that will be needed. [10]

Related technological developments as well as new marketing and logistics procedures to improve service effectiveness, increase operational efficiency, increase revenue, and maximize mutual benefits. [11] Education in the country of Indonesia will be more found using literature from Western countries which has a sterile level and is also inseparable from the values contained in growing a sense of faith and Islam. Therefore, the data sources obtained can produce information that has more balance than writers who have literature on science based on Islamic values, but that does not mean that they can make a dichotomy between general science and religious sciences. Education is not only limited to the wilderness of skins which can produce theories that will only give birth to education that has a "dogmatic" nature and does not appear "creative". [12] The old skills that can only be relied on are in the form of skills in reading, writing and mathematics lessons that must be strengthened. The ability to education must also be prepared. This is an conscious and planned effort that can create a learning atmosphere that is conducive to learning by students. running actively to be able to be developed through his potential to be able to gain spiritual strength regarding religion, self-control, personality towards himself, the level of intelligence that must be possessed, must have noble character, and have their own skills, towards society, nation and state according to Law Number 20 of 2003 article 1:1. [13] This digital transformation has the benefit of changing human behavior including entering between educators and their students, in which it can be used to browse, study, document, and reopen teaching materials that have been adapted to needs. During this pandemic, the world, especially in the world of education, both in schools and in universities, must be able to adapt. The paradigm shift from conventional learning to online, of course, requires a lot of time because that should be related to the paradigm shift in academic culture. In addition, the lack of facilities, geographically, the economic problems that arise, as well as differences in the mindset of students who are far from remote areas and urban areas that make a large number of challenges that are obtained from parts of the world towards education besides that in facing the transformation digital has been done in this era. The pesantren/madrasa education system is an education system that has long existed in parts of the world. Islamic boarding schools existed before colonialism existed, during colonialism until Indonesia was free from the clutches of its colonialists. In the early days of the emergence of the pesantren/madrasah it was pioneered (of course the system was far different or far behind today) for the purpose of da'wah or the process of Islamization for indigenous peoples, but during the colonialism period historical facts emerged which could provide data which would have the form of a system education that can be hegemony by colonial activities. [14] Online learning can run more effectively in digitally developed countries, which is why it is not running effectively in Indonesia. Indonesia is a very big country, not all Indonesian people have good access to internet connection. He makes the process of learning online or learning from home an obstacle. Students who can access via the internet can be obtained from smartphones that can be utilized in online learning because there are a large number of media with online systems that cannot be accessed by the internet with smartphones. The unexpected shift to online learning has become a measure of organizational agility, with some academic institutions primarily focusing on the transfer of educational content to the digital world and not particularly on online teaching and delivery methods. [15] The digital transformation of higher education has been discussed in the last decade, and this vision relates to many aspects, such as managerial strategies, asynchronous collaboration, and the use of communication tools. [16].

Distance education via the Internet is increasingly exploding at the college level. The University of Phoenix is America's most successful online university. It has more than 100,000 students overall, including more than 30,000 online students. As busy people realize they need more education, they are increasingly choosing to take distance education courses. [17] Learning with online media is learning about education that takes place through the Internet media. It is a form of learning that is carried out remotely to provide a learning experience in education that is applied to students, both children and adults, to access education from remote locations or who for various reasons cannot attend either vocational schools or universities. [18]] the impact of digitalization on the performance of international new businesses. Scholarships are increasingly examining the feasibility of digitization. [19] The use of the education system consists of several indicators, including: 1) Who can easily use the first point to get the human component in the opinion of James G and E. Aydin is anyone who has used, used the education system. This will be based on who uses and who does not use the education system. What factors are currently influencing the decisions of individuals in the use of the system. 2) According to Bhattacharjee's opinion, the form of evaluation is evaluative in the use of IT. This has expectations that can be interpreted as an addition in determining satisfaction, because these expectations can provide a baseline or reference level for consumers in forming evaluative assessments of local products and services. 3) Attitude in accepting the education system in the opinion of Al Gahtani and King states that the attitude to accept must focus into the implementation of management information systems because research can determine the success or failure of the resulting information technology products. 4) Training According to Syihabuddin, training is a good activity that seeks to change and improve and develop attitudes that are obtained either through skills in order to be able to improve the

professionalism of performance between staff or employees in a group so that the group can develop and have good efficiency. [20]

Learning from home online requires internet connectivity, computers or devices, and virtual classes as a forum for interaction between teachers and students. The use of internet networks and multimedia technology can reconstruct the teaching and delivery of learning materials in the technology 4.0 era. From the digitization process itself, it means that digitization is a process in which it takes a traditional form to an all-digital form, in which case we can take some examples from the world of recordings of music, which previously could be in the form of a cassette, it could also change to a digital form. MP3 and can also make mass media in the form of newspapers or newspapers and also turn into e-paper. Meanwhile, the meaning of digitization is that everything that is in process can also result in the form of a business that was previously whereas conventionally it can turn into a process that is digital. An example in this case is the occurrence of a paper reduction system that has undergone a change to become papaerless, it must also be able to reduce face-to-face media and all kinds of transactions that are caused to go towards long distances. In the era of globalization, there are all kinds of opportunities in the world for education, especially in schools which still make it a second choice and can then be shown in terms of choices at the level of education.[21] The digital-based education system and the important role of digital media in the current learning system and methods can be utilized by various kinds of digital media that can be accessed via the internet with remote media or during. The digital education system and the concept of independent campus learning are synonymous with using e-learning technology such as the Learning Management System, Video of Conferencing Tools, Digital Library And Database Tools, and so on, according to the study of Goldin et al.[22]

Conclusion: The summary written by the author as a result of the discussion which explains where the transformation of the digital system can have an impact on the development of the times in the current era of globalization..

Acknowledgments:..addressed to someone who plays an active role in helping the author to strive to develop this scientific journal better.

Bibliography: All references referred to in the text of the article must be listed in the Bibliography. The Bibliography must contain references from at least 80% primary sources (scientific journals) published within the last 7 (seven) years. Each article should contain at least 10 (ten) references. The citation format and bibliography must follow the IEEE format. Writing references in the article text and bibliography should use reference

IV. EQUATION WRITING GUIDE

EACH EQUATION IS CENTERED AND NUMBERED IN PARENTHESES AND PLACED AT THE END OF THE RIGHT MARGIN. EQUATIONS SHOULD BE WRITTEN USING THE EQUATION EDITOR IN MS WORD OR OPEN OFFICE, SUCH AS THE EXAMPLE IN EQUATION 1.

$$\frac{dS}{dt} = \frac{S_0}{\tau} - \frac{S}{\theta_c} - \frac{kSX}{Y(K_m+S)} \quad (1)$$

V. GUIDELINES FOR WRITING CITATIONS/REFERENCES IN THE ARTICLE TEXT AND REFERENCE LIST

- WHEN TAKING DATA OR QUOTING STATEMENTS FROM OTHER LIBRARIES, THE AUTHOR IS REQUIRED TO WRITE THE REFERENCE SOURCE. REFERENCES OR CITATIONS WRITTEN IN THE DESCRIPTION/TEXT ARE IN ACCORDANCE WITH THE IEEE FORMAT (NUMBERING). THE NUMBER FOR EACH REFERENCE ITEM IS WRITTEN IN SQUARE BRACKETS, FOR EXAMPLE [1]. SOME REFERENCES CAN BE WRITTEN IN SEPARATE SQUARE BRACKETS, FOR EXAMPLE [2], [4], [6] AND [7]. SEE FULL EXPLANATION AT [HTTPS://WWW.IEEE.ORG/DOCUMENTS/IEEECITATIONREF.PDF](https://www.ieee.org/documents/ieeecitationref.pdf).
- WRITING A BIBLIOGRAPHY SHOULD USE A REFERENCE MANAGEMENT APPLICATION SUCH AS MENDELEY, END NOTE, ZOTERO, OR OTHERS. EXAMPLES OF REFERENCES AND REFERENCE LISTS CAN BE GROUPED AS FOLLOWS:
 - - ONLINE JOURNAL ARTICLES / E-JOURNALS IN [1]-[12]
 - - PRINT JOURNAL ARTICLES IN [13]-[14]

- conference articles in [17]-[20]
- thesis in [15], [21]
- technical report [16]
- standard [22]

VI. CONCLUSION

The transformation of the digital education system in Indonesia is difficult to avoid with the current situation and conditions. That makes stakeholders in the education sector and within the government must be able to move quickly into a form of digitalization in the world of education. The era of globalization has touched almost every aspect of our lives. At this level of connectivity someone has been influenced by involving other people, to get information, and of course to see the world around them. Therefore, it is not surprising that the trend towards digital transformation also has a major impact on the education industry. From educators in elementary schools to tertiary education, they introduced that digital transformation has influenced the classroom and the way teachers provide education that their students can reach. The emergence of the COVID-19 pandemic can limit teaching and learning activities in schools. Like it or not, we can demand that many schools and teaching staff be able to use information technology in overcoming the condition of students getting this education. There are other important things that may really need to be paid attention to in the transition towards the era of digitalization in the world of education in Indonesia. Not only to be able to apply the use of gadgets with electronic books, but also to change the mindset of teaching staff and students who are involved in it, including from other sectors to make it a supporting sector for the world of education. Humans as the main subject or actor in the development of civilization that needs to be done to adapt to changes made depending on the surrounding environment. Educators, students, government and parties related to the education sector need to be changed with a mindset that is towards problem solving, not just surviving in a traditional way. Due to the existence of a mindset revolution that is applied to the world of education, the transformation of the world of education will only produce intelligent people who are smart in using sophisticated technology.

So that it can be defined that the digital transformation of the education system in the era of globalization that has entered Indonesia is a change in the education system towards the mindset between one human being and another human being in exchanging knowledge with the help of technology that is very sophisticated and must be in harmony with the values of Pancasila and the Constitution. Constitution 45 which has been enacted. In improving quality and that is also regarding digital transformation, the education system can be maximally produced for digital infrastructure, a global vision for digital transformation, and a digital education system. The first is to be able to maximize digital infrastructure. Therefore, there must be access to electricity and the internet because they are the basic capital in realizing the transformation of education. In the availability of infrastructure, things cannot be offered anymore or postponed as usual. Second, they must have a global vision in developing digital transformation. The current easy generation is a generation that may already be connected internationally with devices that are clear about digital technology. Therefore, the vision of education should not be confined to only one narrow perspective. Developments and innovations in digital technology in recent years can provide opportunities and convenience for the public in obtaining information to pay attention to space and time. Technology and information that is currently developing rapidly is affecting the joints in human life. Among them are digital media for communication, social life, economy, values for culture and education. The transformation of the digital education system is a change in the system of the human mindset in learning using traditional methods into digital technology. However, in the era of globalization, students can get knowledge from anywhere, for example through the internet. With the presence of internet media, it can make the world in one hand. Therefore we must be able to make preparations for education that can bring students to be able to make preparations in entering the era of globalization. Digital transformation in the world of education must focus on three things, the first is accessibility with digital technology making it easier for students to access all kinds of information on the learning resources they get. Second, interactive learning which is carried out with the existence of technology through learning media, there are many choices that will make students have a passion for learning about education. Third, adaptive learning with the presence of technology makes it possible to have a learning process that can be adapted to certain conditions, namely the needs that are influenced by the environment for students in learning about education. The development of digital technology which has made a large part of civilization globally is a strong reason for the transformation of the digital education system in the era of globalization that has entered Indonesia. Society must have prepared for changes in the digital education system and welcomed the new digital transformation.

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The author declares that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.