

Impact Of Technology And Information After A Period Of Pademi For Education And Health In Indonesia

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Abstract.

Technology has also influenced various sectors, an example of technological development is the emergence of application software that makes it easier for companies. But not only that, one type of form of technology that is growing rapidly in the era of pademi is information and Communication Technology in the field of Education. With the existence of social media, the younger generation takes advantage of this to take part and influence the community by showing their intelligence to set an example to the community through social media. One of the things that need to be considered in creating a competitive advantage for culinary, fashion, music, tourism industry players in the pademi era is Database Building and Management, namely the application of a platform that includes WhatsApp Business and email lists as a data container for potential repeat purchases by consumers. Since the pandemic conditions, consumers prefer to buy food, clothing, household items dal other delivery rather than come on the spot. Adaptation for behavior towards the new normal by developing strategies such as social distancing, health consider, cashless, less contact must also be implemented by existing businesses. In the context of business, technology can provide changes so as to create a new point of view in business known as digital marketing or internet marketing that utilizes the internet as a market medium. Conventional businesses are more concerned with purchases made by consumers. However, with a circular business model, how consumers can obtain goods and services is more important. Conventional business success focuses more on the material benefits gained from the sale of goods or services. They are result oriented. However, circular businesses are more concerned with how they can create a balance between environmental, social, and profit aspects.

Keywords: *Stikes BPI, Information Technology, Online learning*

I. INTRODUCTION

Now all lines of industry in the world are under great threat, including the world of technology. The domino effect of Pademi is still very much felt globally and the world of technology is the solution in this regard. The pandemic, which lasted for two years, had short-term and long-term effects. All the manufacturers in the world are worried about it. Starting from China, pademi spread throughout the world. The pandemic has had a major impact on many people around the world. If earlier the trade war had affected the world economy, the pademi incident became a severe blow that not only the world economy but all aspects of life were affected by the virus. This is the real war and beyond the expectations of many World Health Experts. The impact is very deep on the economic, social, cultural, political conditions of the country. His condition depressed the world and led to a recession. On the other hand, 2020 is a new decade in technological development. Major technology companies such as Apple, Samsung, Tesla, Google to Foxconn began to announce the closure of corporate offices, manufacturing plants to retail. The impact is so great, the reason is because the market share is so large that technology companies are eroded not by competition but by people's purchasing power.

There is such a huge niche for technology manufacturers and assemblers, constrained activities in society provide opportunities for them as well as large targets of World technology companies. Pademi schemes driven by the massive spread of the virus, automatically the whole world panicked. Many factory workers had to be laid off until the virus subsided. Information and technology companies get the opportunity to develop products that support the smooth information and communication between manufacturers to consumers. Employment Minister Ida Fauziyah revealed data from BPS unemployment rate due to covid-19 of 2.56 million ordinary workers of 0.76 million people due to the pandemic the total

unemployment rate has accelerated to 9.7 million people. Unemployment generally sounds very common among millennials because the number of unemployed causes an increase in poverty including the millennial generation aged 15 to 24 years which is 3 times more vulnerable than in the past. Even now millennials are confused about starting a career because they do not get the benefits of proper education, financial, job opportunities, health and welfare at a young age.

A. The Development of Education Technology and Health Industry

In the face of the Industrial Revolution 4.0 era, people are required to be able to adapt to technological advances that are all digital, especially in the field of Education. The presence of technology can be used to improve the quality of Education which is the key to improving the quality of human resources and will bring Indonesia into a superior nation. Certainly the 5G network, which is considered the pioneer for super-fast internet in the fifth generation of technological and information Developments. It's just that the 5G implementation process must be delayed because fiber optic device suppliers are generally affected by the current pandemic. China has contributed up to 25% of the world's global production of optical fiber. It is not only the 5G internet that should be postponed a bit but almost all the world agenda should be postponed until the pandemic subsides. Mobile World Congress (MWC) 2020 in Barcelona. F8 Facebook, Google I / O, and even Computex. This change also gave birth to a new strategy for manufacturers to market their products through influencers, by launching digitally or even sending new products directly for them to try. Even the sales process was done online so that buyers do not have to leave the house to get the latest technology products. One of the sectors affected by the Covid-19 pandemic is the education sector which involves so many routine physical activities, such as face-to-face meetings in the classroom, academic guidance processes, formal meetings in seminar forums and so on.

However, these routine activities are hampered because to minimize the spread of Covid-19, the government has implemented a physical distancing policy. Seeing the phenomenon above, then for the application of online learning methods (e-learning) becomes a necessity and the best choice for the world of Education. Various educational institutions are now starting to utilize technology and implement online learning systems to support learning activities. The presentation of this web-based online learning (e-learning) system is more interactive and borderless, this is what allows learning activities and lectures to be carried out effectively and efficiently. In addition to education is also the impact of technology for the development of the health sector. One example of technological progress is in the field of Health. Advances in the field of Health is growing very rapidly, so a lot is obtained with the help of advances in this technology both in the field of hospitals, medicine, and research. Health services in the advancement of technology is currently getting a lot of world attention, due to the opportunities of technological advances in the health sector is able to improve the quality of human life. In the field of health technology advances have been very supportive of services, reported from lifepack.id for example, it makes it easier for doctors and medical personnel to help patients, data storage and maintenance becomes easier, makes work simpler, and can monitor patients remotely or online.

B. Pandemi and technology give birth to a new generation

Technology is developing so rapidly that it creates new object innovations and techniques that can help humans do things more quickly and efficiently. Technology has also influenced various sectors, an example of technological development is the emergence of application software that makes it easier for companies. But not only that, one type of form of technology that is growing rapidly in the era of pandemi is information and Communication Technology in the field of Education. The young generation of Indonesia recorded a history that young groups have been actively involved in various sectors of Indonesian society since ancient times until now. Early indonesia fought for the independence of the Indonesian state, the younger generation of indonesia played a big role in it so that the younger generation was willing to shed blood to fight for the Indonesian state. In the current era, the younger generation is starting to make a very big struggle in facing the pandemic and struggling to restore the bad situation and raise new spirits in the pandemic era. Positive impact of technology in the business world. The younger generation, take advantage of technology by showing their creativity in social media. In this pandemic era, the younger generation has a lot of activities and their activities in social media as well as, the younger generation becomes an influencer

in social media, so that it is able to be an example in society. With the existence of social media, the younger generation takes advantage of this to take part and influence the community by showing their intelligence to set an example to the community through social media.

C. Pademi improve effectiveness and efficiency

There are a lot of Electronic media media that is our reference to find and get information, but in modern times people are more inclined to look for news sources on the internet or websites such as: kompasiana, alodokter, kompas, liputan6, klikdokter, MOH, halodoc, and so on, because finding news sources on the internet is easier and more practical. To find or get information about health facilities we can use the internet to find it. Instagram Facebook Twitter, Facebook, Youtube, and so on are some of the applications that can be used on the internet. Business owners can leverage existing technology to improve their performance. That way they can accomplish more tasks than ever before. For example, the use of management software to help businesses get the latest reports on management and business developments so that they can be used for further decision making in real time. Technological tools play an important role in the efficiency and effectiveness of the company. Take advantage of computers, tablets or smart phones to increase the efficiency of the company.

Use software or sharing tools to keep opposing team members up to date with the atmosphere of the project, even when they are not actively working on a particular part of the project. Work with all technology professionals to assess the best techniques for protecting client business and information without exceeding established estimates. Use exclusively designed software programs to add efficiency or effectiveness in the office. For example, use spreadsheets for better organization or create an office system to share the information of one of the team members or professionals who are opposite in business. Organizational effectiveness is a business strategy designed to increase the efficiency of the company without minimizing the quality of products or services. By working with all professionals in different fields or at different levels of Education, a leader finds new ideas to help reduce costs, improve products and deliver quality customer service.

D. Pandemic increases technology business potential

Thanks to the results of technology, it allows companies to reach consumers from various regions and countries. So it is not impossible for small entrepreneurs to compete with larger businesses by using the internet connection to do Product Marketing. Moreover, with the use of the internet through the website, sales can operate as long as it operates 24 hours a day and 7 days a week. One of the things that need to be considered in creating a competitive advantage for culinary, fashion, music, tourism industry players in the pademi era is Database Building and Management, namely the application of a platform that includes WhatsApp Business and email lists as a data container for potential repeat purchases by consumers. Since the pandemic conditions, consumers prefer to buy food, clothing, household items dal other delivery rather than come on the spot. Adaptation for behavior towards the new normal by developing strategies such as social distancing, health consider, cashless, less contact must also be implemented by existing businesses.

E. Building a new paradigm in the education and health business

Business Model is a way to build a business and provide added value to customers. Business models allow businesses to adapt to market changes, innovations, and legal frameworks. Because things are dynamic, the business model must be constantly updated. Currently, several parties have begun to emerge that implement the circular business moel. There are several differences between a conventional business model and a circular business model. When viewed from how businesses generate value, conventional business models have value chains that end in users of goods or services. However, in a circular business model, there is no end to the value chain because value creation runs like a cycle. In the context of business, technology can provide changes so as to create a new point of view in business known as digital marketing or internet marketing that utilizes the internet as a market medium. Conventional businesses are more concerned with purchases made by consumers. However, with a circular business model, how consumers can obtain goods and services is more important. Conventional business success focuses more on the material benefits gained from the sale of goods or services. They are result oriented. However, circular businesses are more

concerned with how they can create a balance between environmental, social, and profit aspects. Circular business models also do a lot of collaboration and co-creation.

This is done so that the impact caused by the business is comprehensive and widespread. In contrast to conventional business models, they interact with buyers only for the buying and selling process. Likewise with other stakeholders, such as suppliers. There is no added value between communication with other parties. The current business phenomenon is divided into three things, namely, business disruption, the business environment is VUCA, and the failure rate of digital business startups is relatively high to reach 90%. In the midst of this pandemic, physical distancing is highly recommended, so many hospitals limit patient visits. With the virtual consultation, medical personnel can diagnose and treat patient complaints in real time only from the mobile screen. If it turns out that the symptoms experienced by the patient are not so urgent or not related to chronic diseases, then the patient does not need to bother coming to the hospital. Save crucial time and energy, so doctors and nurses can focus more on handling COVID-19 patients. Not only that, this virtual consultation also makes it easier for health workers to reach more patients, especially those who live in remote villages or regions. This Remote healthcare in addition to improving the quality of care for doctors and nurses, also prevents the virus from spreading more widely. Even better, some applications are already equipped with Artificial Intelligence (AI) to facilitate diagnostics.

F. Accelerate response to consumers

The positive impact of pandemic and technology is to use information and communication technology to be able to provide a quick response to complaints and consumer needs where it can be used as an added value for the development of companies and businesses. One of the efforts to overcome the conditions in a crisis today is to build a culture or core values owned by a business. It is very important that business people change their mindset in establishing communication with consumers through strategies that can save, namely with schemes; Fast, Flexible, and Friendly. Be quick to respond and deliver, and flexible in changes so there are no restrictions at every level of workers because consumers are more demanding on the best, cheapest, and fastest solutions. Businesses must continue to make it easier to build good and close relationships with fellow employees, suppliers, and consumers. In the implementation of health development, especially improving the health status of Indonesian people through preventive, promotive, curative, and rehabilitative efforts. Technological innovation is one of the spearheads for this development, so it is hoped that Indonesian researchers can produce products that can provide benefits both in terms of drug development, health technology, and health service management systems.

II. METHODS

The method used in this study by using literature studies, with the aim that researchers will find out by getting relevant and accurate information from various media sources. By conducting a literature review, the author conducts a literature review by looking for theory and information from several sources of reference books and articles. Indeed, this method requires time and special skills to make and assess behavioral observations in research, when conducting behavioral observations

III. RESULT AND DISCUSSION

In 2021, face-to-face learning activities were held, now being transferred back to online learning, along with the soaring number of covid-19 cases. The pandemic is not over yet, but community activities, especially learning in schools, must continue. Various parties are working together to continue to move post-pandemic recovery efforts.

A. G20 Indonesia, Recover Together, Recover Stronger

In line with the vision of the Indonesian G20 presidency, Recover Together, Recover Stronger, Recover Together, Rise strong. There are four main issues that will be discussed in the G20 forum, namely ; quality of Education for all (Universal Quality Education) Digital technologies in Education (Digital Technologies in Education), solidarity and Partnership (Solidarity and Partnership), the future of the world of work post Covid-19 (the Future of Work Post Covid-19). The pandemic brought rapid changes in various areas of life, including education, forcing everyone to adaptive learning, one of them through the instruments

of digital technology. There was a tremendous acceleration in the use of digital technology in education during the pandemic. For this reason, technology was appointed as one of the priority issues in the G20 forum on Education and Culture in 2022. Digital technology in education is not only about the physical contribution of technology as a learning tool but the concept of multidimensional. According to the Association for Educational Communications and Technology, educational technology is the study and ethical practice of facilitating learning and improving performance by creating, using, and managing appropriate technological processes and resources (AECT, 2004).

Indonesia's role in the G20 is quite strategic, because since December 1, 2021 Indonesia has been elected to the G20 presidency. According to the explanation of the Ministry of Finance of the Republic of Indonesia, the Group of Twenty or G20 is the main forum for International Economic Cooperation consisting of countries with major economies in the world. The Forum is composed of 19 countries and one European Union institution. G20 members to date are Australia, Argentina, Brazil, China, European Union, Germany, India, Indonesia, Italy, Mexico, Saudi Arabia, Russia, South Korea, Turkey and the United Kingdom. The G20 took the initiative to deal with the impact of the pandemic, which included the suspension of external debt payments for low-income countries. not only that, the G20 also promised to make an injection of funding to deal with the impact of covid-19 of more than US\$5 trillion. The funds are used to restore the economy. G20 countries also reduced or abolished import duties and taxes, reducing duties on vaccines, hand sanitizers, disinfectants, medical devices, and drugs for Covid-19.

B. Technology and its use in education

Educational technology is the study and ethical practice in an effort to facilitate learning as well as improve performance by creating, using, managing appropriate technological processes and resources. Technology is expected to be the answer to the problems of access, quality, and social justice in the field of Education. This is because one of the impacts of the pandemic is the wider inequality in access to quality education. How is technology used in education and learning? Call it the use of e-learning for example, is actually a representation of the use of technology in education and learning. There are many platforms and varieties of learning technologies that students and teachers can utilize according to learning needs. Teachers can utilize existing or available digital technology-based learning resources or develop their own specifically. The digital education ecosystem, has a very diverse range of control in Indonesia, ranging from geographical gaps, infrastructure distribution gaps, teaching staff digital literacy gaps, gaps in different teaching methods. So that requires more than one scenario or strategy that must be used during the transformation of digital education after covid 19. Conventional learning activities have stopped, classrooms in schools have become empty, changing to digital classrooms that are presented virtually. The class teacher is also played by parents at home, they suddenly have to provide assistance to their children's learning. The closure of schools is an unavoidable emergency solution to prevent the spread of the Pademidi pandemic around the world. In Indonesia, more than 60 million students from all levels of education are learning from home due to the closure of the school.

This distance learning will only be carried out if there are adequate means of communication. The Internet is the main means of communication when we want to enter this digital age. The demand to use technology for learning has actually had to be done for a long time, but there are some gaps in its application. Among the infrastructure gaps are uneven availability of electricity, availability of internet, laptop, HP, TV, also geographically where Indonesia has various obstacles to the provision of infrastructure. Communication network becomes absolute to be fulfilled. Share learning app startup industry is mushrooming. Global solidarity as a must, face the problems together, because the affected are not a few, do not know the position, do not know the gender, do not know the old or young, student or student, city or village, etc. Therefore, the acceleration of Indonesia's digital transformation, the digital world will open new gates or new public spaces in Indonesia. The founder of Zoom, who was loved during the pandemic, made a profit of up to Rp35 trillion in 2020. No wonder, how this application really facilitates all social activities, ranging from learning, meetings, recitation, social gathering is not clear. A new diction appeared during the pandemic with the term zoom. Zoom, G-meet and a host of other applications are implementations of revolutionary educational

technology theories. The dynamics of scientific and technological progress is so fast and the flow of globalization of information and communication is very swift.

Outdated educational theories will slowly be eliminated because they demand an adjustment of the Times. According to educational technology expert Prof. Timothy J. Newby, Learning media is divided into six parts, namely text, visual, audio, video, real objects or models and multimedia. Before the internet was easy and cheap, the variety of learning media was partial meaning that it did not converge. Text Media Cannot Display audio, vice versa. Video Media cannot be text-based. However, along with the rapid pace of Information Technology, all kinds of learning media that also experienced convergence. An increasingly sophisticated learning app brings together text, video, audio and video. In fact, virtual reality which was booming made Learning media turn theories into real objects. This VR technology makes it easy for students to understand what they are learning, ranging from knowing dinosaurs, anatomy of the human body, knowing a region and so on. In fact, this VR technology realizes teachers and students meet and interact in a virtual space. Although in the real world, they are somewhere far apart. The sophistication of this learning technology cannot be separated from the vision of global education. The traditional educational Model that relies on face-to-face meetings is showing a great shift. Online education has brought about challenging changes. The birth of new trends such as home schooling, self-study and distance learning has become a pride and is seen as a prestigious educational model.

C. Digital Learning Strategies

The human resources gap where the level of literacy of teachers in utilizing ICT is also uneven, the cause is various factors, ranging from the lack of communication channels to obtain digital learning information, and other factors that are no less important are assistance in the use of digital technology by educators and educators. Teachers will become more confident if the implementation of the application of digital technology in learning is always accompanied as a confirmation stage in the adoption of learning technology innovation. Habituation to the use of technology for learning must also be followed by the transformation of learning patterns both teachers and students. The gap of digital teaching methods, creating new habits that allow learning to be anywhere and anytime. Disruption of Education that leads to transformation, where something that usually runs normally and then suddenly stops suddenly and must change, changing learning patterns, packaging patterns and service patterns, conventional content changes to digital content. Bringing digital literacy to teachers, educators and students, requires a lot of intervention from various parties. Kemendikbud's steps during the pandemic, creating a joint page to face corona, Sapa DRB, BDR TVRI, quota assistance, Belajar.id, and encourage the creation of a learning platform where this application serves as an aggregator of various educational services both e-learning and e-Administration. Digital literacy is becoming commonplace but must be improved periodically, the culture of ICT use / digital transformation is not easy. because once on the internet it's like going into the wilderness. Therefore, there is a need for a healthy internet utilization culture to utilize the internet as a learning resource and support the learning process of students and teachers.

The learning approach began to change starting from teacher-centered learning, then in digital learning, learning is more centered to students, because children are now digital natives who are already accustomed to utilizing technology. Teachers and educators must continue to recognize the various applications of e-learning through various communication channels (seminars, online training, etc.), so that Mr. and Mrs. teachers can choose which tools are considered effective and efficient, in order to optimize the various digital spaces provided as an interaction between teachers and students, so that students become more enthusiastic, creative, critical in sorting out information so that new ideas appear that were not previously found in conventional learning. Of course, this ICT usage culture must have various stimuli, so that students enjoy digital learning, and then students will be eager to learn. Human resources need mentoring, need learning, need awareness, collaboration by learning technology developers, innovative teachers who dare to use technology for learning. Disruptive innovation is applying innovation, replacing old systems with new ways (collaborative), creating a new learning ecosystem (teaching or learning) by promoting digital technology transformation. Disruptive innovation will save costs because of simpler implementation patterns, resulting in better quality, wider reach with easier access. Disruption can be seen as

something positive because it is a dynamic, efficient, and effective innovation, various educational fields have emerged during 2020-2021.

D. Demographics Of Capital Facing Globalization

Demographic Bonus, it is our duty at this time to present or teach science that can equip students to face the future with the digital education landscape. Various educational approaches must be taken to create a digital education ecosystem so that future generations can compete globally. So in solving these problems, several different scenarios or solutions are needed, which need to be adjusted to the conditions of each region. Global solidarity is needed to solve the existing gap, all stakeholders must provide solutions according to their respective abilities, ranging from students, teachers, educators, families, communities, governments and industries. Merdeka belajar means that the educational unit, namely the school, teachers and students have the freedom to innovate, have the freedom to learn independently and creatively. Independence in learning in order to foster creativity and innovation was formed during the pandemic. Indonesia has a big vision in education in 2035, which is to build the Indonesian people to become excellent lifelong learners, continue to grow, prosper, and have noble character by cultivating the values of Indonesian culture and Pancasila, it is expected that the values of this vision will be built from schools, families and communities. The transformation of digital learning was accelerated by the Covid pandemic, various policies were issued by the government, ranging from the distribution of internet quotas for Learning, Learning From Home programs through television broadcasts, conduct various learning seminars by utilizing ICT.

Hacking the gaps became the decisive point where Corona was the one who hacked those gaps quickly, accelerating to open new public spaces for education. When we talk about digital transformation, there are 3 elements involved, namely society, economy/business, government. We want all components of this nation to be involved in the transformation of digitalization. First, schools become Digital educational Media, in PJJ, schools are converged into access devices or digital technology. The use of social media and a number of applications that can be obtained easily and cheaply (some even free) is becoming a new tradition. The House also changed its function into a school, this was really felt during the world Pademimelanda pandemic. Students study with a screen in front of them. This change of era certainly requires the support of the government and all parties. Countries should be responsive to reading how the digital revolution is having a huge impact on how our children learn. We hope that the Minister of Education and culture Nadiem Makarim (pioneer of Gojek) will encourage more aspirational education towards the Times. Thus, digital technology-based education is not over like the Pademi pandemic, which is also increasingly completed

IV. CONCLUSION

It is undeniable, that the online learning system is a new thing for most teachers, students and parents. The conventional (face-to-face) learning that they have been doing, is already considered the most comfortable. But with the advent of the Pademi epidemic, which until now has not subsided, inevitably the conventional learning system was forced to change. If before the pandemic, learning was done face-to-face in the classroom. So during the pandemic, learning must be done online without face-to-face. In addition to physical separation, online learning requires knowledge and ability about the internet and Information Technology and good communication. Mastery of information technology is an obligation for teachers and students and even parents. Therefore, teachers and students are faced with new challenges that they inevitably have to face. In various ways, they try to learn to understand and master information technology and implement it in online learning. There are those who study independently and there are also those who study in groups at their respective schools. As a result, after they master and are able to use information and Communication Technology (ICT) in online learning, they just feel how easy it is in various things related to online learning. Some teachers, students and parents who have been less concerned about the use of Information Technology for teaching and learning activities, now can feel the benefits themselves.

It turns out that by using technology they are greatly facilitated in implementing learning. Information technology is not only a means of communication, but now the teaching and learning process is becoming increasingly easy and flexible. This means that, on the one hand, the Pademi pandemic has indeed caused negative effects, but on the other hand it is also able to have a positive effect on education.

Don't just look at the negative side. There must be some wisdom behind this disaster. Evidently, after the outbreak of the Covid-19 pandemic, the world of Education has experienced many advances, especially knowledge in the field of technology. This is because the school system has to adjust to the outbreak. This of course encourages teachers, parents and students to be more creative and able to utilize information technology in education. So that the way of teaching and learning in schools, the way teachers view the use of Information Technology has also changed. Teachers who used to not care, now they become masters of Information Technology. Before this pandemic, there were many teachers, parents, and students who were still stuttering about technology and had never used technology in learning.

But now we can see, in just a few months many teachers and students are very proficient in using various types of learning technologies, for example making learning videos, having a youtube channel, mastering google classroom, e-Learning and so on. Hopefully, their mastery of information technology will be the first step in the revival of the quality of education in this country, and not just a momentary euphoria during this pandemic. Every event must have a wisdom behind it, including from the Pademi pandemic (Coronavirus Disease-19). In the field of education and learning from this pandemic, the transformation of education from conventional to digital is increasingly being applied in every learning process and level of Education. The trend of Educational Technology also feels the increasing number of online learning platform services that have sprung up offering various kinds of interesting and creative learning packages according to learning needs. The high growth of services engaged in educational technology lately due to the many needs of schools and the world of education for online learning services.

V. ACKNOWLEDGMENTS

The author is grateful to the Bhakti pertiwi health College Foundation of Indonesia which has provided support in this study so as to produce new literacy additions for the Bhakti Pertiwi Health College, the community, the government and the business world of the health and education industry. Pademi produces a dilemma but also the positive side of the impact of creativity and technological progress to socio-cultural changes in society

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