



# Digital Transformation To Improve The Well-Being Of Junior High School Students In The Time Of Covid 19 In Public And Private Middle School In Yogyakarta

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## ABSTRACT

This study aims to examine the preparation, implementation, and evaluation of digital transformation to improve student well-being during the COVID-19 period in public and private junior high schools in Yogyakarta. This research approach uses qualitative. The data analysis technique is using directed interview technique, participant observation, data presentation and conclusion drawing. The results of the study show that: 1) The planning used by public and private junior high schools in Yogyakarta in digital transformation improves student well-being, including by adjusting the curriculum used and using a simple curriculum during the COVID-19 response period; 2) The implementation used by public and private junior high schools in Yogyakarta in digital transformation improves student well-being, including using various internal school LMS (Learning Management System) platforms, ensuring the smooth running of students and presenting student well-being; 3) Evaluations used by public and private junior high schools in Yogyakarta in digital transformation to improve student well-being include providing bridging to parents regarding child development, conducting assessments that can be used as a basis for evaluating children's learning, and providing many opportunities for input to schools to evaluation brings fun learning.

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## 1. INTRODUCTION

Education contributes intelligence and management of a good standard of living for citizens in a country. Education should

have been packaged holistically (whole) and not partially (partially). This is important to do because education does provide many opportunities to grow the

good that can be obtained and for mutual progress as a whole. Good education obtained by citizens will be able to answer various challenges and opportunities effectively (Maunah, 2009). Then, education is also important to pay attention to regarding the needs and welfare of students, because this will support the readiness of students in learning (LN Dyrbye et al, 2019). Aspects of technological readiness in the world of education are also important to apply, because the world has entered the era of globalization (Lestari, 2018). So, it is important for education managers to be tough and careful in managing the implementation of learning for students well.

The implementation of learning in schools certainly requires the discipline of teachers and students as well as good facilities and a comfortable and healthy environment. Then, a major disruption that forced schools to be forced to dismiss students for humanitarian reasons, this disruption was the COVID-19 Pandemic. So, to keep students active in learning, the implementation of learning is carried out from home online (in a network) by involving the active role of parents in monitoring students (Wardhani and H. Krisnani, 2020). In this case, students will experience a change in thinking that will have an impact on the welfare and facilities obtained in learning, because they have to undergo online learning (Sumakul and Ruata, 2020). Schools and all stakeholders in the world of education and other sectors need mutual cooperation to overcome these challenges.

With the COVID-19 pandemic, all aspects of education have experienced significant changes, starting from learning done from home and calling for social distancing. This of course has a

psychological impact on students in their daily lives. Not a few parents also contact the school because the burden of supervising children studying at home is not easy, this is because they (the parents) have been busy at work. Educators or teachers also experience a disruption that is not easy to overcome. Educators have to work twice because at night they have to prepare modules in the form of videos that are simple but solid and easy to understand, then provide access for students to learn and of course monitor student learning progress from home.

We found innovations being made in some of the schools we researched. This innovation is able to answer the challenges of the world of education in the current era of disruption of the COVID-19 pandemic. At Public junior high school, they have good internet access and LMS (Learning Management System) management in the form of the Gesschool application from the school. Then, private junior high school also has the same internet access as the LMS in the form of MLC (MUHI Learning Center) which can be accessed by educators and students when studying at home. So with the supporting aspect in the form of online learning facilities, it can be used to continue learning even though the implementation is from home.

As an education provider and experiencing the disruption of COVID-19, schools continue to innovate and bring newness in education. Researchers found a picture of a fun learning implementation even though it was carried out from home. Furthermore, this was facilitated by the internet data subsidy assistance provided from the Ministry of Education and Culture for educators and students to keep it running smoothly and cheaply in providing education. The school continue to improve, learn and prepare actively in

providing education. Student well-being is the key for schools to always be well managed and presented to students.

The welfare of students can be achieved by paying attention to four aspects, namely having, loving, being, and health (Konu and Rimpelä, 2022). The school model based on student well-being can also take into account the condition of the school, the social relations of school members, the means for selffulfillment and health (Konu, et al, 2022). Furthermore, regarding the welfare of students or student well-being in general, a strong factor that supports its implementation is the relationship or community relations that the school has established (Graham, et al, 2016). In the context of multinational or international students, the welfare of students is also influenced by the cost of living that comes from travel, environmental, cultural, academic and social transitions (McClachlan and J. Justice, 2009). In the international program, student assessment or PISA provides an illustration that students' welfare is to obtain subjective information related to the abilities or dexterity of students (Borgonovi and J. Pál, 2015).

During the disruption of the COVID-19 pandemic, schools provide online learning. Online learning is an effective solution to keep learning safe from home (Herliandry et al, 2020). Furthermore, with the implementation of online education, teachers can take advantage of various online learning platforms to support the implementation of online learning (Nafrin and H. Hudaidah, 2021). Meanwhile, Dian, Hascaryo and Barokah provide additional insight, namely that education carried out online needs to pay attention to aspects of supporting facilities such as the availability of an internet network (Khasanah, et al, 2020). Then, Napitupulu provides an

overview of distance learning while still paying attention to the quality of learning satisfaction (Napitupulu, 20220).

The arrival of industry 4.0, gives new colors in various sectors, this also provides an overview that can be read by education providers to be active in digital transformation in the world of education (Simanjuntak, et al, 2021). With the application of technology in the world of education, education will be able to be carried out flexibly and able to adapt to any conditions (Putri, et al, 2021). The smooth implementation of online learning is also supported by the flexibility of the curriculum applied in online learning (Gusty et al, 2020). Then, digital transformation and application in the world of education in online learning will be more effective by utilizing various platforms such as Whatsapp Group and Google Classroom (Astini, 2020). Then, it is important for educators to respond to digital transformation in the world of education by providing or presenting digital classes (Pertiwi and Sutarna, 2020).

From some of the opinions above, the implementation of learning in schools by paying attention to the welfare of students is very important to implement. Various factors that need to be presented to support student welfare are having, being, loving and health. However, in practice, there is a disruption that hinders the implementation of learning that focuses on the welfare of students. COVID-19 has had a significant impact on various changes experienced by schools that must continue to provide education from home. As a positive picture, the digital transformation that is being carried out in schools provides opportunities for educators and students to continue to provide education smoothly and effectively.

## 2. RESEARCH METHODE

This study uses a qualitative approach. Qualitative research is post positivism research that gives meaning or meaning to the findings studied. Ahmadi and Rose revealed that in qualitative research, researchers provide interpretations of various information obtained (Ahmadi and Rose, 2014). Lawrence Neuman in Gumilar, provides a study that in qualitative research, researchers have styles including: a) constructing cultural reality and meaning; b) focus on interactive processes and events; c) Authenticity is key; d) restricted situations; e) few cases and subjects; f) thematic analysis; g) researchers are involved (Rahardjo, 2021).

Information was obtained from interviews with the Principal, Vice-Principals of Schools and Teachers. In data collection, researchers always try to reach relevant data until the information is saturated or one reason. Then the researcher triangulated to get the relevant information

We collected data by means of guided interviews. According to Rahardjo, targeted interviews are interviews conducted by researchers to informants related to previously prepared questions (Rahardjo, 2011). The qualitative data analysis according to Huberman and Miles are: a) Data collection; b) Data reduction; c) Presentation of data; and 4) conclusion and verification (Huberman, 1992)

## 3. RESULT AND DISSCUSSION

### 3.1. RESULT

#### 1. SMPN 2 Pakem

Regarding digital transformation during the covid 19 period, ST as the Deputy Head of Curriculum at this school said:

"SMP N 2 Pakem uses the KTSP curriculum which is integrated with the COVID-19 period by completing the information technology facilities and infrastructure used in learning. All teachers have used information technology in the learning process by utilizing various applications as learning resources. This information technology is also used by students in the learning process to explore the material and find references in learning. Constraints that are often faced by teachers and students are usually related to unstable signals, lack of knowledge in filtering incorrect information, or devices that are not supported when used. It was also conveyed that learning in the era of covid 19 through information technology has become a lifestyle so that it is very much enjoyed.

Delivered separately by the Islamic Religious Education Teacher, KMR who stated that

"In carrying out learning during the COVID-19 period, all of them used digital technology through various applications that were easily accessed by children. The school also completes various facilities and infrastructure such as a computer laboratory, wifi access, a comfortable and safe room. There are several problems that often arise are signals that are not evenly distributed, students are getting bored and do not follow the lesson. Regarding the cognitive aspect, it was conveyed that the application of learning through digital has become a daily habit that must be enjoyed. With regard to the affective aspect, even though at first learning with information technology felt heavy, but now it feels happy and happy and can still give attention to students through motivational messages,

This was also conveyed by SIC as the Counseling Guidance teacher who stated that:

"Utilization of information technology is now a must in learning, of course to support this process schools provide adequate facilities so that the learning process through digital can run smoothly. Regarding teaching preparation, each teacher always prepares materials, prepares equipment, smooth wifi access, and also checks students' completeness. Until now, the obstacle that is often faced is an unstable signal, most students even have homes that cannot be accessed by the internet and also the lack of understanding of children in using the internet. Regarding the cognitive aspect, at the beginning using digital was difficult, but over time it has become used to and enjoyed. The thing that is a concern with digital learning today is the formation of student attitudes and character. Meanwhile, related to the affective aspect, there are no policies that burden students, always make students feel comfortable by paying attention, for example by greeting, discussing and problem solving for students who have problems in learning.

On another occasion, the researcher conducted separate interviews with students related to digital transformation in learning. The use of Information Technology in the world of education during the COVID-19 period certainly had an influence on various aspects of educational activities. The use of information technology influences and changes several things in the activities, behavior and feelings of students both at school and in the environment where they live in the learning activities they do.

Based on interviews with FYH class IXC students, stated that:

"Before this pandemic, my life was very exciting because I could meet friends and study with the teacher in class. After the existence of covid 19, at first I felt bored, but now I can enjoy it because it turns out that learning with information technology media provides more knowledge and insight that can be obtained from various sources. This made me feel that it is important to learn by accessing the world's various information."

"During learning using digital, the teacher is also very concerned about each student, when a friend does not follow online, the teacher will usually answer. His house was also visited for clarification. In addition, when there are friends who cannot participate in online learning because of problems with devices or signals, they are welcome to come to school using the facilities available at school."

"I feel that right now my condition is healthy and fine, and I feel that the older I get, the more enjoyable my life is, the more I can understand myself and also start planning future goals. I am also very active in organizations, namely by participating in student council activities, youth youth activities in the village, competitions at school and also participating in various groups on whatsapp. I do this to keep in touch with my friends even during the COVID-19 period."

A similar statement was also conveyed by JWB class VII B saying that:

"In my opinion, information technology is a device that is used as an intermediary to communicate without the barrier of distance. I often use the various facilities available in information technology to study, exchange news with friends, seek the latest information and watch entertainment. The school provides



information technology facilities including computers for students, free internet services for learning, in the classroom there are projectors and gesschool applications. I use information technology for learning resources, look for learning videos from youtube, practice questions from applications. Compared to conventional learning, I prefer to learn to use information technology because the material is more extensive and more detailed. Regarding preparation for using information technology in learning, namely preparing mobile phones, good battery and signal. I do this, because every day the teachers always use this online media in carrying out the learning process."

"My life before studying in the digital era during the covid 19 period was very fun, I could meet friends, teachers and also do activities together, but after this pandemic I had to study at home and learning was done through online applications, for me initially this was very boring, but because the pandemic was not over yet so over time I started to get used to it and just enjoy learning through this digital. Although in fact I often think about and still worry about my future when this pandemic continues."

"Learning in the digital era during the pandemic gave me a lot of new things, there were many incidents that made me laugh, there were teachers who went wrong zooming in, there were friends who were embarrassed when they had to be on cam, or other funny incidents that happened during learning. At this time I am proud of my life, because I can improve my performance by searching for many sources of knowledge through the internet. Related to my feelings when I first learned in this digital era during the covid period, at first I felt happy but sometimes

there was also a sense of saturation. This can be overcome with the attention and affection of the teachers, they give equal attention to all students."

"As I get older, my life is more enjoyable, I understand more about my life habits, my personality, especially since I am an active child. Related to that, I started to plan for the future, have the determination and desire to achieve it, for that I must always be healthy, and fine."

Based on the data above, it can be concluded that digital transformation provides benefits and convenience for teachers and students in the learning process. During this COVID-19 period, all teachers use information technology in carrying out learning. Besides being used for learning activities, it turns out that the benefits of this information technology are as a means to communicate, as a learning resource, to be able to find the latest information and entertainment for students. In addition, by using information technology, learning is more fun, can improve achievement and with available facilities can provide a sense of comfort. The obstacles encountered in digital learning during the COVID-19 period were related to unstable signals, lack of understanding of children in using information technology and also boredom.

## **2. SMP Muhammadiyah 1 Yogyakarta**

Digital transformation in education delivered by mc who is a mathematics teacher stated:

"schools have made a transformation in the digital era which is very helpful in the learning process. All teachers have also used various supporting media to carry out online learning as is happening in the

current era, namely the covid 19 pandemic. Various platforms that can be used by teachers and students in learning are mlc (muhi learning center) which is an lms (learning). Management system) owned by the school, and various platforms provided in various application stores that can be used and downloaded online including: google classroom, google meet. Learning using technology is carried out by continuing to provide apperception at the beginning of learning and providing information about the material that will be obtained by students. Various obstacles that occur in online learning are certainly very disturbing the course of learning. The solution to overcome the obstacles above is to adjust to the constraints that occur. For example, if there is a problem on the network, it is necessary to adjust it to the constraints of students, namely mixing between synchronous and asynchronous which is certainly more data efficient and can be a solution to obstacles in the implementation of online schools. In their daily life, they must remain happy and enthusiastic in learning and carrying out their duties as a teacher. Teachers really care about the future of students. So in their learning, the teachers are always energetic and deliver it in a fun way. This can be done while maintaining the positive energy and enthusiasm of students by giving attention and affection that remains the same in each lesson. Of course the great hope of the teachers is to continue to maintain the safety, comfort and quality of the welfare of students during this covid-19 pandemic."

Then, on a different occasion, the researcher also conducted research on students, this aims to obtain more detailed information about their opinions in terms of implementing learning with the existence of information technology (it) in the implementation of education. Description of the use of it in learning and

how the welfare of students (student well-being) which includes 4 main aspects, namely having (having), being loved/cared for (loving), being (being) and health (health) experienced by students in learning both in online classes and in daily life.

then the researcher also conducted research on rcr as a class viiid student, which confirmed various findings and stated that:

"in learning, all students use information technology (it) media. Although they have never experienced face-to-face learning, the school has provided sufficient facilities to support online learning during the covid-19 pandemic. The covid-19 pandemic has made all students feel that the quality of their happiness is relatively low. This is because students are only and always at home in every lesson. Coupled with uncertainty or indecision regarding the future of the students because almost all activities must be held at home. However, in each lesson, all students must still be enthusiastic in learning and doing activities even though they often have to stay at home."

"in class, online, either synchronously or asynchronously, the teachers also continue to pay attention in the form of affection and motivation in every opportunity in each lesson. I was greatly helped by the motivation provided by the teacher besides me continuing to try to move forward and remain enthusiastic in participating in online learning. In feelings that sometimes change quickly, this is because sometimes feelings of joy suddenly turn into feelings of sadness because of the covid-19 pandemic, the attention in learning given by teachers is an encouragement in learning." "as i got older, i felt that something was missing because of the impact of this pandemic.

There are many things that cannot be done because they have to stay at home. I understand myself, that more effort is needed to get used to living in an orderly manner in the era of the covid-19 pandemic as it is now. I'm also sometimes shy, so if i don't ask first then i'm not very active in every learning session. However, i believe that my abilities will always be honed with perseverance in studying. I also believe in the future that i aspire to be realized. I try to be a good servant of god by carrying out all his commands and staying away from his prohibitions. Likewise, i also made good friends with others in the same class even though i was only able to say hello on the whatsapp application (social media) because of the covid 19 pandemic. This is what makes me always fit and excited in every challenge."

On another occasion, the researcher also conducted an interview with rfr, a class viic student, who said that:

"in this covid-19 pandemic, i use a lot of it (information technology) for learning. Information technology is a tool that can connect people for communication. In using it media, teachers have provided material with various educational application platforms, including google meet and google classroom. I prefer to study with conventional media such as books rather than it media as it is now. However, with students being required to study from home, it made me accustomed to online learning like this. There are many benefits of it, including making it easier for people to communicate with each other, even holding online classes."

"learning in the era of the covid-19 pandemic is very different from learning held under normal conditions. This is due to the saturation and lack of understanding of students when they have to study online and at home without meeting directly

between the teacher and also with friends. However, the teacher's role as an active and fun educator made my boredom and sadness disappear from studying online, because he was able to provide fun and interesting classes. The teachers also pay attention to students related to online learning in the form of affection and warm greetings in every lesson that takes place." "as i get older, i sometimes feel that something is lacking in me, especially with unstable conditions like the current covid-19 pandemic. I need a lot of time to adjust as a student studying in the pandemic era and taking classes that are held online. In my future, ideals, i still need to immediately formulate it properly. However, besides me who need good self-management such as preparing goals, i am an active person in groups. And thanks to my belief, i am not discouraged and believe that in the future i will become a successful person. I also always try to do good worship. This, makes me feel better and maintain the quality of my health. Then,

Then, the researcher also received information from gmck, a class viiid student who stated that:

"in online learning, all learning is based on information technology (it). Information technology (it), in my opinion, is a medium that can be used to communicate and exchange information. During the covid-19 pandemic, as it is today, it is very helpful to be able to continue to hold learning during the covid-19 pandemic. In my daily life, i actually prefer to study using conventional media such as books rather than using it media as it is now. With the new habit of learning that must use it media, as it is now, it certainly makes me more accustomed to this it-based learning media. So, every day i am used to online-based learning and feel that i am still comfortable in learning."



"learning before the covid-19 pandemic was very fun because i could meet teachers and friends. It is very different from online learning which requires us as students to continue to study from home using it media which still requires habituation. In learning that takes place online and with existing regulations, sometimes we need to encourage ourselves to keep learning actively. In feelings that are sometimes carried away sadly, then the role of teachers who are active and able to provide education in a fun way makes students continue to be enthusiastic in participating in online learning. Then the teacher also always gives attention in the form of affection and warm greetings in each lesson." "as i have matured, i think i feel sad because i have to go through the journey of life that crosses the covid 19 pandemic. I know that i still need to learn a lot and realize my hopes (dreams) in the future. In addition, i am very happy with what i have done, because i am one of the people who tend to be active in groups. Regarding the future, i have already designed it and really want to become an expert in building design (architect). I am so sure, that i can achieve my future successfully. I have good relations with classmates, because i follow the class whatsapp group. I also try to be a faithful servant by always obeying worship. With this i am always in a relatively healthy body condition physically and mentally."

On the other hand, an opinion was also conveyed by lkd, a class viic student who revealed that:

"learning that takes place in schools uses various information technology (it) media. In my opinion, it is a tool such as mobile phones, computers and others that are used for communication media. I use this media every learning in online classes. In the era of the covid-19 pandemic as it is now, the average person uses information

technology media as a liaison for classes held online. The school has also provided good information technology facilities. I also don't really like using online learning media and tend to like learning offline. However, because i am used to the habit that requires me to study online, i am more accustomed to learning that is held online.

"learning during the covid-19 pandemic seems to be a new challenge for students. I am not happy with the learning that is held online, this is certainly different from the implementation of offline learning that was carried out before the previous covid 19 pandemic. This is what sometimes makes me as a student have to be more enthusiastic in every lesson. However, of the many struggles that must be done, the teachers are always present by providing fun learning. Teachers also give sufficient attention to students even though learning is carried out online."

"Lately i feel like i'm lacking in terms of being a better me, moreover i've experienced an event in my life's journey a very dangerous pandemic. In the end, forcing me and everyone to comply with health protocols and forcing each activity to be limited, learning activities that should have been offline were disrupted and held online. I also sometimes think about what the future will be like if learning continues online like this. However, i believe in my future which will be achieved in due course. I also maintain relationships with classmates by actively participating in the available class whatsapp groups.

From various points of view of arguments from various informants, researchers can take a simple synthesis that it is important for schools to continue to innovate in the world of education. The most enabling and very important innovation to be implemented immediately is digital transformation. The digital transformation that has been

carried out will certainly greatly assist the implementation of education in the era of disruption like now. Covid 19 has forced schools and education offices, both central and regional, to issue regulations that make the implementation of education conducted online (on the network), limited, and prioritize the safety of students and educators considering the pandemic is very dangerous and threatens health.

### 3.2. DISCUSSION

The results of the study show that digital transformation provides benefits and convenience for both teachers and students in the learning process. During this COVID-19 period, all teachers use information technology in carrying out learning. Besides being used for learning activities, it turns out that the benefits of this information technology are as a means to communicate, as a learning resource, to be able to find the latest information and entertainment for students.

The above is in accordance with Starkey's research which states that the use of digital technology in schools in learning practices is explored more deeply for the interests and benefits of the learning activities themselves. [24]. Meanwhile, according to Kumar, Che Rose, & D'silivia, it is undeniable that digital learning offers an interesting approach to the teaching and learning process and can bring progress that will improve education.[25].

From the quotations above, it can be understood that digital transformation provides convenience in learning practices, making students more active and learning more interesting.

Digital learning can also shape communication and interaction between students and provide entertainment for students.

So it can be concluded that digital transformation to improve the well-being of junior high school students during the Covid 19 period includes providing convenience in learning practices and encouraging students to be more active in learning because learning

becomes more interesting. Children can develop knowledge and utilize digital technology during the learning process. In addition, digital media helps students communicate and interact with their friends in learning activities and also as a suggestion for entertainment for students.

The results show that by using information technology, learning is more fun, can increase achievement and with the available facilities can provide a sense of comfort.

So in the world of education it is important to carry out digital transformation. This is also in line with various studies that have been made by other researchers from various places which show that digital transformation in the world of a pandemic really helps the process of implementing good and agile learning, even being tough. Digital transformation in the world of education will greatly make the world of education richer in creativity and innovation, because it will make it easier for teachers and students to access various reference sources and organize classes comfortably both online and offline which allows students to open IT devices with discretion. previously agreed upon.

So from various findings related to existing theories, it shows that digital transformation will greatly assist students in obtaining the basic needs of students in learning (student well-being). Students can still take part in learning comfortably online, and from existing research they are willing to participate in online learning in the future. With digital transformation, students will also be able to be trained to get used to changes or face the times of disruption that are currently happening and may occur in the future. So students will not feel confused (chaos) when understanding and exploring a future life that is full of challenges and various opportunities that will be obtained.

### 4. CONCLUSION

So it can be concluded that the obstacles in Digital Transformation to Improve the WellBeing of Middle School Students During the Covid 19 Period include inadequate internet facilities both in terms of signals and the limited cost of procuring data packages, so that the school tries to avoid burdening children as much as possible, including by using learning media that are easy to access by children. The next obstacle is related to the lack of students' understanding of the media, the efforts made by the school, namely by instilling reading literacy habits in students.

The results showed that digital learning during the covid 19 period created a

pleasant atmosphere with attention and affection from teachers and school principals who always provided motivation, guidance and direction. So it can be concluded that Digital Transformation to Improve the Well-Being of Middle School Students During the Covid 19 Period, including learning through information technology that emphasizes giving attention and affection to students will create a pleasant atmosphere so that students will feel they have a high level of well-being.

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