

Improving the Quality of Education Through Infrastructur in Era 5.0

Yusutria

Faculty of Islamic Religion, Ahmad Dahlan University (UAD) Yogyakarta, Indonesia
yusutria@pai.uad.ac.id

Annur Fajri*

Information Systems Study Program, STMIK Antar Bangsa, Tangerang Banten
nurfajri98@gmail.com

Egi Nur Hudatun

Faculty of Islamic Religion, Ahmad Dahlan University (UAD) Yogyakarta, Indonesia
egi2000031024@webmail.uad.ac.id

Rina Febriana

Faculty of Mathematic Education, Universitas Cokrominoto Yogyakarta
rinafebriana0502@gmail.com

*Corresponding Author

ABSTRACT

The research aims to explore improving the quality of education through infrastructure in the 5.0 era. Preparing educational facilities and infrastructure is critical to maintaining them properly and appropriately, especially in this 5.0 era. All school officials must maintain facilities and infrastructure well, including principals, teaching staff, and students. If educational facilities and infrastructure in schools are maintained properly and correctly, of course, the impact will be on the quality of education. This research used a qualitative descriptive method by explaining what underlies the results obtained by compiling the data or information the researcher has collected with the final results in written form. Data collection techniques are done through interviews, observation, and documentation. The research results show that the efforts made by schools are to improve the quality of education through 5.0-era infrastructure. Namely by doing: 1). Planning educational facilities and infrastructure through needs analysis by analyzing the financing that must be covered, adjusting the quality of facilities and infrastructure, 2). Inventory, 3). Settings, 4). Maintenance, 5). Removal through the deletion procedure. 6) Providing training to educators and education staff in using existing facilities so that they are maintained and function as they should.

Keywords: *Improvement. Education quality. Infrastructure. Era 5.0*

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INTRODUCTION

Facilities and Infrastructure are the educational resources that need and are very

important to be managed well and are an inseparable part of education management, such as buildings, land, administrative

equipment, and even facilities that are used directly in the teaching and learning process in the classroom (Aisyah, 2023). Educational facilities and infrastructure are among the national education standards that education unit administrators must meet, so completing the facilities and infrastructure is an absolute must in improving the quality of education. Quality is essential to improve the quality of educational institutions to produce academic output that can meet the needs of society (Karisma & Nadziroh, 2023). As written in Law no. 22 of 2023 concerning the National Education System article 45 paragraph 1, namely, "Every formal and non-formal education unit provides facilities and infrastructure that meet educational needs by the growth and development of the physical potential, intellectual, social, emotional and psychological intelligence of students" (Fatmawati, 2019).

Management of educational facilities and infrastructure is a collaborative process that enables the efficient and effective use of all educational facilities and infrastructure. Management of educational facilities and infrastructure is also tasked with organizing and maintaining them so that they can make an optimal and meaningful contribution to the educational process. Management of educational infrastructure is critical in educational activities to create conducive conditions or atmosphere in educational institutions. Management activities can be used as a measuring tool for achieving success, which plays a role in teaching and learning activities, and the existence of these infrastructure facilities can also be utilized optimally in teaching and learning activities (Iwan, 2022), (Aulya Chasovy, M. Giatman, 2020), (Lelahester Rina, Destri Sambara Sitorus, 2024)

Maintenance is one of the essential activities in managing educational facilities and infrastructure. Maintenance of educational

facilities and infrastructure is an activity to organize and arrange facilities and infrastructure so that they are always in good condition and ready to be used to realize an educational goal. Therefore, so that the maintenance of educational facilities and infrastructure can be carried out optimally, there are three ways: 1) it is necessary to carry out a more thorough analysis of needs in making a work program plan for facilities and infrastructure by the facilities and infrastructure sector itself. 1) the facilities and infrastructure sector must also carry out data collection on damaged infrastructure, and 3) as the school principal, it is also appropriate to act more intensively in carrying out supervision and providing awareness to all school residents in maintaining school facilities and infrastructure (Suliyarti, 2019), (Ibnu, 2020).

The vitality of these facilities and infrastructure in educational institutions also influences learning and teaching activities, especially since educational institutions are currently in the 5.0 era, namely an era where human life is made more accessible by the presence of technology. This technology is also part of humans themselves. So, following up on this and preparing to face the 5.0 era is a problem, and the Indonesian government needs to follow up on the uneven internet (Pusvitasari, 2020). Therefore, there are three things that educators must utilize in the era of Society 5.0, including the Internet of Things in the world of education (IoT), Virtual/Augmented reality in the world of education, and the use of Artificial Intelligence (AI) to find out and identify learning needed by students, especially in the facilities and infrastructure available at the educational institution (Lestiyani, 2020). There are several discussions about improving the quality of education through infrastructure, namely that there are still very few schools with adequate educational facilities and infrastructure; for this reason, efforts are needed both from the government and

awareness from school parties to ensure that school facilities and infrastructure are met so that the learning process can be carried out well and achieve educational goals that have previously been formulated optimally and effectively (Patel & Goyena, 2020). Management of educational infrastructure, educational infrastructure used by teachers in the learning process, and management of the utilization of educational infrastructure in improving the quality of learning. Based on several discussions, enhancing the quality of education through infrastructure in the 5.0 era has yet to be explained concisely (Bararah, 2020).

There are several relevant previous data and research results that strengthen the problems in the article, including:

- 1). Good management of facilities and infrastructure, considering that the role of facilities and infrastructure management in improving the quality of education is quite large, based on the conditions and description above, researchers are interested in finding out more about the management of facilities and infrastructure at MI NW 1 Kembang Kerang (Isnaini et al., 2021),
- 2). The educational problem that occurs in Indonesia is the lack of educational facilities and infrastructure, especially in remote areas. This creates a gap in the quality of education. Many students cannot enjoy facilities and infrastructure like students in the city. This proves that the government pays little attention to facilities in remote areas (Rismayani, Eliana Ayu Lestari, 2021).
- 3). Management is an activity of managing an organization to achieve goals effectively and efficiently. In the school environment, one important aspect of management is the management of facilities and infrastructure which focuses on the management of all educational equipment to support an optimal learning process. This discussion reviews the implementation of management of facilities and infrastructure in improving the quality of

education in Vocational High Schools (Aulya Chasovy, M. Giatman, 2020).

From several previous studies, none have discussed in detail about Improving the Quality of Education Through Infrastructure in Era 5.0. Based on the problem of infrastructure and facilities to improve the quality of education through infrastructure in the 5.0 era, this problem is not only faced by the government, but this problem also becomes homework for teachers at SMA Muhammadiyah Daarul Khoir Gunungkidul Yogyakarta in improving the quality of education through infrastructure. 5.0 era because the use of infrastructure still needs to be clarified.

METHODS

This study uses a qualitative method. Descriptive qualitative research explains what it is based on the research results obtained by compiling the data or information that the researcher has collected with the final results in written form (Hardani & Sukmana, 2020), (Mays & Pope, 2020). Qualitative research is rooted in a natural setting as a whole, relies on humans as a research tool, utilizes qualitative methods, carries out inductive data analysis, aims its research targets at finding theory from the basics, is descriptive, prioritizes the process rather than results, limits the study to focused, has a set of criteria to check the validity of the data, the research design is temporary. The research results are agreed upon by both parties: the researcher and the research subject (Hardani et al., 2020), (Putu Agung, A., Yuesti, 2019), (Hanti Bhushan Mishra, 2019), (Almalki, 2016). The subject of this study was at SMA Muhammadiyah Daarul Khoir Gunungkidul Yogyakarta. The data collection techniques used in this research were interviews, observation and documentation, then data reduction and categorization was carried out, data display and conclusions were drawn about the obstacles faced in improving the quality of

education through 5.0 era infrastructure at SMA Muhammadiyah Daarul Khoir Gunungkidul Yogyakarta.

RESULT AND DISCUSSION

The efforts made to improve the quality of education through 5.0 era infrastructure at SMA Muhammadiyah Daarul Khoir Gunungkidul Yogyakarta can be understood from several interviews and observations that have been carried out, including:

Respondent 1. Explains that in implementing the management of infrastructure that has been determined based on the educational standards that apply in the school. Infrastructure planning begins with identifying the needs of the learning process by documenting all the requirements that have been analyzed. Then, select those recorded based on priority needs and facilities required. To avoid excess goods, existing tools must be reviewed and reviewed. All necessary conditions are divided into short-term, medium-term, and long-term supply planning. The importance and influence of infrastructure facilities determine this. All the required infrastructure is then selected and sent to the organization as a decision maker to see whether the proposed acquisition of facilities and infrastructure is accepted. "It is not uncommon for school principals to look directly at the existing infrastructure in the school environment to find out whether certain facilities need to be updated immediately to improve the quality of education in the 5.0 era."

Respondent 2. "Updating infrastructure to support activities carried out in schools and maintain the recognition achieved to improve the quality of education in the 5.0 era. These complete facilities encourage students to develop their potential and compete with others. Apart from that, it also makes the learning atmosphere more lively; students are more active and enthusiastic; even though learning is challenging, students are very

enthusiastic when learning. It is different if there are no such facilities; students will lack enthusiasm because of the difficulty of learning, which will only lead to a lack of interest in learning, impacting the quality of education. The only obstacle is the need for the school community to take more interest in maintaining and managing the available facilities. There is still much graffiti on the classroom and toilet walls, and the toilet smells unpleasant. When completed, it also showed that the school community, especially students, still needed to learn about the existing facilities. Meanwhile, the supporting factors for facility management are the response and interest of schools and related institutions toward teacher proposals and suggestions for providing facilities to support the ongoing learning process. "Support from related educational institutions, support from external parties such as aspiration funds and student trust funds, as well as cooperation from all school administrators are also supporting factors for the smooth implementation of infrastructure management operations without any significant obstacles."

Respondent 3. "Educational facilities and infrastructure that are well managed and directed will have a positive impact on the learning process so that managers of facilities and infrastructure must always optimize supervision, which will have an impact on improving the quality of education in the 5.0 era. The school also emphasized that all stakeholders, without exception, must be involved in the care and maintenance of existing educational facilities. However, unused facilities are also the responsibility of the school community, the responsibility of parties directly related to the school. "Supporting factors for the inventory of educational facilities and infrastructure include cooperation and adequate facilities, while the inhibiting factors are the inventory of educational facilities and infrastructure, namely

the low number of goods and human resources."

Based on this explanation, the following table can be understood.

Table 1. Improving the Quality of Education Through Infrastructure

No	Facilities and Infrastructure	Description
1	Management	<ol style="list-style-type: none"> 1. Based on applicable education standards 2. Identify learning process needs based on short-term, medium-term, and long-term supply planning.
2	Obstacles	<ol style="list-style-type: none"> 1. Lack of interest from school residents in maintaining and managing facilities. 2. Low amount of goods and human resources
3	Supporting	<ol style="list-style-type: none"> 1. High response from related parties in completing Facilities and Infrastructure 2. Inventory of educational facilities and infrastructure, including cooperation and adequate facilities 3. Updating of infrastructure is well managed and directed 4. Optimizing supervision will impact improving the quality of education in the 5.0 era.

Based on this explanation and reinforced by observations, it can be understood that the maintenance of educational facilities is a shared responsibility of various school parties, which all school members carry out. Apart from that, it is necessary to prepare learning facilities and infrastructure that are in good condition, can be used at any time, and are ready for use by teachers and students. Good facilities and infrastructure will be able to support the learning process well. Maintenance of educational facilities and infrastructure is followed by continuous or periodic maintenance, which includes maintenance of educational facilities and infrastructure both in the school and owned by each teacher and student. Therefore, regular maintenance is critical to minimizing unwanted elements that will become problems in the future (Khikmah, 2020).

Understanding facilities and infrastructure both as learning tools, teaching aids, and educational media in the process of learning and teaching activities to help increase effectiveness and efficiency can also function as a substitute for teachers. The five senses capture information conveyed through educational media based on the five senses

(Aulia & Rizkiyah, 2022). "Infrastructural facilities are essential in the teaching and learning process, both moving and immovable, so that the achievement of educational goals can run smoothly, regularly, effectively and efficiently." Therefore, if used properly by the educators concerned, educational facilities will play a positive role. The equipment and materials used in educational institutions will continuously help in the educational process, especially in learning and teaching activities. Every education manager must pay attention to one area related to existing educational facilities (Sopian, 2019), (Putri et al., 2023).

The availability of facilities and infrastructure will directly impact the quality of education in schools. The learning process and its function to a) make it easier for teaching staff to convey learning information to students, b) help students understand learning concepts, c) speed up the learning process, and d) as a bridge to understanding concrete and abstract concepts (Sahidah & Anwar, 2020). Utilization of educational facilities and infrastructure is part of a complete process of using a facility, either directly or indirectly, to support the course of education or teaching, provide convenience in absorbing the material

provided, and learning facilities play a significant role in enabling its achievement (Dewi, 2020), (Bararah, 2020), (Yusutria, 2022).

Proper use of infrastructure is an essential component to pay attention to in learning activities because learning activities will run smoothly if adequate and suitable learning facilities support them, and vice versa if there are no proper facilities and infrastructure because students will be hampered in learning, which can impact student achievement. Students use quality educational and market resources in emotional and psychomotor education, and having facilities and infrastructure that are aesthetic, orderly, practical, and enjoyable can influence the results that students will produce. When educational and market resources in schools are utilized effectively and efficiently by participating children, it can be a learning process that shows that times will be bright for students and can result in more significant and better student achievements.

It is also necessary to utilize the availability of these facilities and infrastructure, such as planning, procurement, and maintenance of educational facilities and infrastructure. This is to prepare the facilities and infrastructure for the 5.0 era as best as possible. It is necessary to:

1. Planning educational facilities and infrastructure through needs analysis by analyzing the financing that must be covered, adjusting the quality of the facilities and infrastructure determined, as well as evaluating what facilities and infrastructure must be prepared, also, of course, paying attention to the benefits and functions to support the educational process in school institutions the. Of course, this will indirectly help the running of the infrastructure program that has been determined so that the program runs effectively and efficiently. This activity also

involves existing educational staff, especially educational staff who are directly involved in the field, which, of course, know what must be prepared to support their learning and teaching activities (Boko, 2020), (Ya'cub & Ga'a, 2021), (Fathurrochman, 2021).

2. Inventory educational facilities and infrastructure with the following objectives:
 - 1). controlling facilities and infrastructure by providing goods codes, names of goods, source of goods/publisher (books), volume/amount of goods, date of acquisition/purchase of goods, mutations/changes, source of funds, and description of goods.
 - 2) Supervising facilities and infrastructure is carried out by checking the educational facilities and infrastructure inventory book, which contains items that have been provided (Muslimin & Kartiko, 2021).
3. Arranging educational facilities and infrastructure requires effective, safe, and attractive management for academic activities in school institutions with infrastructure and financial facilities, including school space and construction planning and placement of furniture in schools.
4. Maintenance of educational facilities and infrastructure, the first related to daily maintenance carried out by each teaching staff member and student, such as cleaning classrooms, storing learning tools after use, and caring for textbooks. With the availability of existing maintenance, it must be carried out by all school members to prepare learning facilities and infrastructure that can be used at any time in good condition and ready for use by teachers and students. Facilities and infrastructure that are well structured will be able to support the learning process well.

The second maintenance of educational facilities and infrastructure is periodic

maintenance, including supervision of school buildings, painting walls, replacing damaged ceilings, repairing chairs and tables that need to be repaired, and other items with teaching and learning activities. Thus, regular maintenance is one of the steps taken to minimize new purchases that require more significant funds. On this basis, regular maintenance is carried out to maintain school infrastructure so that school infrastructure can be well controlled.

1. The first elimination of educational facilities and infrastructure is through a deletion procedure, existing procedures such as giving a deletion form to each school, then the school records what items will be deleted. After the recording of the things is reported to the education office, a field inspection is carried out by the BPK. Removal of educational facilities and infrastructure must go through elimination procedures determined by the city government, and steps must be taken to eliminate educational facilities and infrastructure to save budget and free up educational space.
2. The second elimination of educational facilities and infrastructure is to lighten the workload and prevent waste. Eliminating facilities and infrastructure that could be used more effectively can reduce the workload and avoid wastage of funds in the maintenance or upkeep of facilities and infrastructure that can no longer be used optimally. Thus, deletion is done for facilities that can no longer be used optimally. Apart from saving budget and freeing up educational space, abolition also has another aim: easing the workload of teaching and education staff in schools.

This is due to the need to organize facilities and infrastructure (Organizing), including arranging the organizational structure for managing facilities and infrastructure, dividing work tasks/job descriptions, arranging practical tools and materials, and arranging

practical activities. Implementation of Facilities and Infrastructure Management (Actuating) in the form of procurement, maintenance, and removal of facilities and infrastructure. Control of Facilities and Infrastructure (Controlling) is carried out by inventory. The use of facilities and infrastructure should be adjusted to the need to obtain benefits from such use. All school residents should utilize the facilities and infrastructure owned by the school so that they are not wasted as mere decoration. All school facilities are provided to provide the best service to all school residents. Maintenance of school facilities and infrastructure is not only left to the officers who handle it but the contribution or proactiveness of all school members is also needed so that all programs planned for school maintenance can be realized well for the continuity of the educational process in schools. The development of technology changes the role of humans in many ways. Machines have indeed replaced many jobs, but the increasing growth of human abilities in various new things has also accompanied this. One of them is in the marketing world, where the trend is developing from just ordinary marketing to the digital marketing era, namely marketing that relies on technology (Dema & Anne, 2023), (Firmansyah et al., 2018), (Tambunan, 2020).

The explanation above illustrates the benefits that can be felt from Society 5.0. Apart from that, there are several other benefits (Rismayani, Eliana Ayu Lestari, 2021), (Prihatini et al., 2022), including:

1. Improve your personal quality. As mentioned above, technological developments in Society 5.0 encourage humans to develop. This affects improving human quality. Even though technology is increasingly advanced, humans still need a role to be able to operate this technology. Human skills are also developing in the field of technology. Many jobs and companies are becoming human resources with advanced

technological capabilities in this era. If we have these skills, we will be sought after and needed so we can find work.

2. Expanding career opportunities, supported by having exceptional skills in technology, will give you wider career opportunities. Almost all jobs today require technology. Besides that, regarding employment opportunities, technology opens up new possibilities that did not exist previously. Previously, jobs such as web developer, web designer, digital marketer, etc. were unknown. All types of jobs were created only after the internet era, so people in this era have more career choices.
3. Improve skills and make work easier. Of course, technology makes many human activities easier. Activities that previously took a long time can now be completed more quickly and more accurately. This allows people to improve skills in fields other than their field of work. For example, in digital marketing work. Previously, marketing jobs only focused on how to sell products to as many consumers as possible. With technological developments in Society 5.0, marketers can now develop skills in the field of psychology to understand consumer behavior or design to produce interesting promotional content.
4. Improve Welfare. Society 5.0 allows humans to achieve more guaranteed prosperity. HR income in the technology sector can be very high and meet workers' living needs. This differs from manual work in previous eras, where the wages received could be meager even though the working hours were very long. This is because the work is optional, and anyone can easily replace employees.

Implementing the 5.0 era in education requires basic literacy and other competencies, namely being able to think critically, reason, be creative, communicative, collaborative, and have problem-solving abilities. As well as

having a character that reflects Pancasila, namely, curiosity, initiative, persistence, adaptability, leadership spirit, and social and cultural awareness. Society is expected to solve various challenges and social problems by utilizing innovations born in the Industrial Revolution 4.0. It is also appropriate that educational facilities and infrastructure are all facilities that either directly or indirectly support the educational process, especially the teaching and learning process, both moving and immovable, so that the achievement of teaching and learning objectives can run smoothly, regularly, effectively and efficiently.

Schools and teaching staff also play an essential role in society 5.0. Learning activities focus not only on one source, such as books, but educators develop to receive information from various sources, such as the internet and social media.(Azerina Priskila Natan, 2023) Especially during the pandemic, learning activities occur through online media using multiple supporting applications, such as Zoom, Google Classroom, Google Class Meeting, and others. Using this application media requires more insight from the teaching staff, so the role of schools and teaching staff in Society 5.0, which focuses on human labor, is vital. Suppose the facilities and infrastructure in the school need to be improved or there are deficiencies. In that case, this can affect and hinder the learning process, especially for students and the quality of their education. The solution to overcome the problem of managing facilities, especially schools, needs to be coordinated synchronously and more efforts to increase awareness and concern of the community in the school environment, especially students, to synergize with each other, maintain, maintain, and maximize existing infrastructure. If facilities need to be completed shortly, the principal will immediately hand them over to the school for immediate repair.

CONCLUSION AND SUGGESTIONS

Conclusion

Based on the results of the discussion presented above, it can be concluded that the utilization of educational facilities and infrastructure is part of a complete process of utilizing a facility, either directly or indirectly, in supporting the course of education or teaching, so as to provide ease in absorbing the material provided, and learning facilities play a vital role in enabling the achievement. therefore, planning of educational facilities and infrastructure is needed through a needs analysis by analyzing the costs that must be borne, adjusting the quality of the facilities and infrastructure that are determined, evaluating what facilities and infrastructure must be prepared, and conducting periodic inventory, arrangement, and maintenance to maintain school facilities and infrastructure so that school facilities and infrastructure can be controlled properly accompanied by training and explanations about the utilization of existing facilities and infrastructure. If the damage cannot be repaired, then the facilities and infrastructure must be removed through a deletion procedure. This research will have an impact on the management of facilities and infrastructure management must be managed properly so that it has an impact on improving the quality of the educational institution.

Suggestions

In this study, it is expected that all managers of educational institutions will pay attention to facilities and infrastructure as a support in improving the quality of education and finding the best solution to the financing problems needed.

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