



## THE ROLE OF TECHNOLOGY IN IMPROVING MANAGEMENT EFFICIENCY IN ISLAMIC BOARDING SCHOOL

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### Abstract:

Study This aims to study the role of technology in increasing efficiency management in Islamic boarding schools. Focus on the main study. This explores How technology, such as system information, digital management and applications, can improve operational efficiency in managing Islamic boarding schools. The method used in the study is a qualitative approach, with interviews to manage Islamic boarding schools and analyze relevant documents. Research results show that implementation technology can speed up the administrative process, improve transparency in finance, and make communication between administrators and guardians easier. Implications from the study This is that Islamic boarding schools that adopt technology can increase effectiveness and operational efficiency while strengthening their competition in the digital era. Therefore, Islamic boarding schools must keep going, update, and develop infrastructure supporting technology and management.

**Keywords:** Technology, Efficiency Management, Islamic Boarding School.

### INTRODUCTION

Islamic Boarding School as institution religious education has role central in to form character and quality source Power humans in Indonesia. However, along with with development of the times, challenges in management Islamic boarding school the more complex. One of the crucial issue is How Islamic boarding school can manage source limited power in a way effective and efficient. (Wiranata 2019) Technology can become solution for increase efficiency management in Islamic boarding schools, especially in manage administration, activities Study teaching, and communication between managers. Many Islamic boarding schools still depend on method traditional in management, which can hinder progress and development them. Therefore that 's important for researching How technology can apply in the cottage Islamic boarding school Nurul so for increase efficiency in Islamic boarding schools. use technology in Islamic boarding schools can increase efficiency operational and simplify management information. Research This will give outlook new about How Islamic boarding school can utilise technology For optimize performance they (Salsabila 2023).

The phenomenon that occurred related with use technology in increase efficiency management in Islamic Boarding School is Cottage Nurul Jadid Islamic Boarding School has been established Lots very utilise technology good in administration, communication, registration even in sambaing or hall meeting students. Which one with rapid digital progress This is very helpful for the community in adapt with changing times. With maximize utilization technology This make Lots party helped and easier without must come to cottage, and also make management at the cottage Islamic boarding school Nurul so become more efficient and systematic with maximize role technology.

Various study previous has discuss use technology in education, but implementation technology in Islamic boarding schools Still limited. Some studies show that technology, such as system management digital based, can repair effectiveness management school or institution education others. For example, a study by (Hasyim 2023) disclose that implementation system management IT- based in schools can speed up the administrative process and make it easier access information. However, even though There is Lots study about use technology in education, few focus on Islamic boarding schools as institution unique education. Some existing research more focus on college tall or formal school, while implementation technology in Islamic boarding schools, with characteristics its distinctive religion, still A little explored. Therefore that, research This focus on role technology in the cottage Islamic boarding school Nurul so in increase efficiency management Islamic boarding school, with notice aspects that have not been Lots investigated previously.

Study This aiming for to study How technology can increase efficiency management at the cottage Nurul Jadid Islamic Boarding School, especially in matter administration, management activities, and communication between manager Islamic boarding schools and students. The questions that will be answered in study This is: How technology can apply for optimize management administration in Islamic boarding schools? What are they? benefit technology in increase efficiency communication between parties involved in management Islamic boarding school? Research this also aims for identify obstacles faced by Islamic boarding schools in adopt technology and provide recommendation practical for manager Islamic boarding school for increase efficiency operational they through utilization technology. With understand implementation technology in management Islamic boarding school, it is hoped can a more effective management model is created efficient and modern without ignore values traditional Islamic boarding school. ( Sutariyono et al. 2021)

Interim results from study This show that implementation technology in management Islamic boarding school can increase efficiency in various aspects. For example, with system management information digital based, administrative process can completed faster and more accurate. Research by (Norman et al. 2024) show that use technology in education can reduce burden administrative, so that manager Islamic boarding school can more focus on development quality teaching. However, the obstacles in adoption technology, such as limitations source power and knowledge, becoming challenge big for Lots Islamic boarding school especially in the cottage Islamic boarding school Nurul Therefore. Therefore that, research This has implications for the importance of training for manager Islamic boarding schools and provision adequate infrastructure so that technology can implemented in a way effective. With Thus, technology can become very useful tool for increase efficiency management Islamic boarding school, at the same time support development a more modern and relevant Islamic boarding school in the digital era.

## **RESEARCH METHODS**

Study This use approach qualitative with type study descriptive. Approach qualitative chosen Because study This aiming For understand phenomena that occur in Pondok Nurul Jadid Islamic Boarding School is related with implementation technology in management Islamic boarding school in a way deep. (Aldeia et al. 2023) Study This focus on description phenomena that occur in the field, namely How technology can increase efficiency management at the Pondok Nurul Jadid Islamic Boarding School, with consider characteristics diverse Islamic boarding schools. Approach this is also more appropriate Because study This No only just measure numbers, but more on digging perceptions, experiences, and challenges faced by the Pondok Nurul Jadid Islamic Boarding School in adopt technology. Different with approach more quantitative nature numerical and structured, approach qualitative allow researcher For explore more data complex and nuanced social possible No revealed in another approach. ( Ardyan et al. 2023)

For data collection, research This use technique interview in- depth interviews

and observations participatory. (Alhamid and Anufia 2019) Research location done Cottage the Nurul Jadid Islamic Boarding School in Paiton, Probolinggo was chosen purposively, with consideration that Islamic boarding school the Already start implement technology in its management, although still in different stages. Respondents study consists of of 10 people covering manager Islamic boarding school, manpower teacher, guardian students and some students involved direct with implementation technology in Islamic boarding schools. Selection Respondent This based on criteria that they own experience direct or sufficient knowledge about use technology in management at the Pondok Nurul Jadid Islamic Boarding School. Number Respondent This considered Enough For to obtain representative picture about current phenomenon researched, with notice principle diversity experience and perspective in use technology in Islamic boarding schools. (Wijaya 2019)

Data analysis in study This use technique interactive data analysis from Miles and Huberman (1994), which includes three stages: data reduction, data presentation, and data extraction conclusion or verification. Stage First, data reduction is carried out with filter, summarize, and select relevant data based on objective research. (Effendi, Fatimah, and Amam 2021) The data that has been chosen Then served in form narrative For give clear picture about the phenomenon being studied. Stage third is withdrawal conclusion, which is done with verify findings beginning and connect it with existing theories, as well as produce conclusions that reflect better understanding in about role technology in increase efficiency management at the Pondok Nurul Jadid Islamic Boarding School. (Sarjie et al. 2023) . Analysis this also relies on technique data triangulation, namely use more from One data sources ( interviews, observations, and documents ) for ensure validity findings. ( Judijanto et al. 2024)

With technique data collection through interview in-depth and observation participatory, as well as analysis use Miles and Huberman technique, research This expected can give deep understanding about implementation technology in Pondok Nurul Jadid Islamic Boarding School and its impact to efficiency managerial. (Karim 2020)

## **RESULTS**

Study This aiming for understand How technology play a role in increase efficiency management at the Pondok Nurul Jadid Islamic Boarding School. In the context of Islamic boarding schools in general own more structure traditional and conservative, use technology expected can repair method management administration, communication, and learning processes at the Islamic Boarding School Nurul Jadid Islamic Boarding School. (Mukhid 2023) Through interview with the managers Islamic boarding schools, teachers, and students, as well as observation directly at the cottage Islamic Boarding School It was found that various findings important to show How technology can give impact significant to efficiency operational and managerial.

### ***Usage Technology in Management Administration***

One of findings main in study This is that use technology has make it easier management administration at the Pondok Nurul Jadid Islamic Boarding School. Previously, many Islamic boarding schools that still exist rely on manual recording for financial data, registration student new, along with students and administration others. However, with presence device soft management based on technology and applications cloud based, administration become more faster and more easy accessed. (Wibowo, Tarigan, and Mukmin 2022)

In an interview with head of the Islamic boarding school bureau cottage Islamic boarding school Nurul so, he stated, " With utilise technology management Islamic boarding school, we can access student and financial data When only, without must open archive messy paper." (Head of the Islamic Boarding School Bureau Cottage Nurul Jadid Islamic Boarding School). This is show that technology allow manager Islamic boarding school For access information in a way more efficient and reduce dependency on archives vulnerable physical is lost or damaged. (Kurniawan 2023)

In addition, a staff administration from Nurul Jadid Islamic Boarding School added, " Previously, we needed time hours for prepare report monthly. Now, only in count minutes, all data is ready Ready with system " automatically." (Administrative Staff, Nurul Jadid Islamic Boarding School). From the quote this, looks that management administration through digital systems can cut time required For task routine administration. ( Hernanda nd)

### **Observation Results**

At the Nurul Jadid Islamic Boarding School, observations show that use system management administration cloud based has reduce error recording finance. (Ngawu, Rada, and Sitaniapessi 2024) The students who have liability payment triulan can direct see bill and pay to in integrated system, so that every transaction recorded with accurate. With application supplies student guardian student can more easy give pocket money, and with application the guardian student with easy see boarding house bill, food and payment bill good boarding house food or quarterly payment student

Findings This show that technology own impact significant to efficiency in management administration in Islamic boarding schools. Use digital system for administration, good in finance and also absence, allows manager Islamic boarding school For save time and resources power, and reduce potential error man in recording. (ADITYA nd) This is in line with theory management stated that technology can increase accuracy and speed up administrative processes (Rifqi 2023) . Implementation technology kind of this, although at first need investment time and cost, in the end give more results efficient and structured.

### **Technology in Increase Quality Learning**

Apart from in field administration, use technology also provides contribution big to quality learning in Islamic boarding school (Martini, Windarto, and Eka 2024) . The Islamic boarding school which was previously depend on method conventional in learning now start utilise device technology for increase quality teaching. Some Islamic boarding school has integrated application online learning and deep multimedia activity learn how to teach.

A a teacher at the Nurul Jadid Islamic Boarding School said, " With with the TV and projector, we can display material with a better way interactive and interesting. Students more enthusiastic and fast catch lessons." (Teacher, Nurul Jadid Islamic Boarding School). Quote This show that use tool visual and interactive aids in learning help student for understand material more effective.

Students at the Islamic Boarding School Nurul Jadid Islamic Boarding School also provides the impression is, " In the past we only read book text. Now, we can watch videos about the material studied, and that make us more understand." (Student, Islamic Boarding School Nurul Jadid Islamic Boarding School). From the statement this, looks that technology such as learning videos and applications education can enrich experience Study students.

### **Observation Results**

At the Cottage Nurul Jadid Islamic Boarding School, observation show that use projector and TV for display teaching materials have been change dynamics class. Students looks more active in discussion and it seems more interested For understand material, because more learning varied and using visual media.

Findings This show that technology No only speed up the administrative process, but also plays a role important in increase quality learning at the Pondok Nurul Jadid Islamic Boarding School. Technology integration in method teaching can make material more interesting and easy understood, which contributes to the results learn more good (Hartati, Fernadi, and Utama 2022) . This also shows shift paradigm in education Islamic boarding school, from method traditional going to a more modern and relevant way with current development. Learning theory constructivism support that use of interactive media like video can increase understanding and involvement student in the learning

process (Ramadhani et al. 2023) .

### ***Usage Technology for Make it easier Communication between Islamic Boarding Schools and with the Guardians of Students***

Technology also plays a role in increase communication between Islamic boarding school, students and guardians santri. Previously, communication between Islamic boarding school often hampered by distance and limitations facilities. However, with existence application message instant and social media platforms, Islamic boarding schools now can communicate with more fast and effective, good in internal affairs and external. (Purwanto 2021)

Employee Nurul Jadid Islamic Boarding School stated, " Now, we can with easy coordinate with other Islamic boarding schools through WhatsApp group. We can each other exchange information about activity religious or big event." (Employee Nurul Jadid Islamic Boarding School). This is show that technology has make it easier communication between Islamic boarding school, improve cooperation and collaboration.

In addition, a the ustadz at the Nurul Jadid Islamic Boarding School explained, " Through social media, we can give information about activity Islamic boarding school to parents student with faster, without must send letter." (Ustadz, Pondok Nurul Jadid Islamic Boarding School). From the quote this, can seen that technology make it easier communication with party external, such as parents students, who become more efficient and not depends on the method conventional. (Arjun 2024)

### **Observation Results**

At the Nurul Jadid Islamic Boarding School, observations show that communication through application message instant make event coordination and announcements more organized. All parties involved, both managers, teachers, and students, can interact more fast, so that No There is missed information. (LOR, MKI, and SAIFUDDIN nd )

Use technology for to smoothen communication between Islamic boarding school and with guardian student show that technology own role strategic in guard smoothness relationship. More Islamic boarding schools optimize digital communication can more easy organize activities and maintaining good relationship with parents students and society. (Arifin, Hamengkubuwono, and Siswanto 2021) . This is very relevant with theory communication stating that technology information speed up the exchange process information and enable more communication effective (Purba et al. 2020) .

In general, overall, research This show that technology give impact positive in increase efficiency management in Islamic boarding schools. From the management more administration structured, quality more learning interesting, until more communication fast and effective, technology proven own role important in repair operational Islamic boarding school. In the future, the implementation technology in Islamic boarding schools can become step important in support more modern management, without put aside values existing traditional. (Soleh 2024)

## **DISCUSSION**

### ***The Role of Technology in Increase Efficiency Management in Islamic Boarding School***

Implementation technology in management Islamic boarding school has show potential big in increase efficiency Operational at Pondok Nurul Jadid Islamic Boarding School. Technology No only make it easier task administrative, but also helpful in system registration student new, management of santri sambahing, and the process learning santri. In the digital era when This is a pesantren that adopts technology can optimize use time and energy in operate various administrative processes, starting from from santri data management until learning with TV or Projector. With Thus, technology give significant contribution to improvement efficiency in Islamic boarding schools, especially in matter managerial and management operational. ( Priyanta et al. 2024)

Main reason implementation technology This is ability technology for speed up administrative processes that often take time time and energy in the environment Cottage Nurul Jadid Islamic Boarding School. Manual data management can be very complicated, considering amount many students as well as various need administrative that must be filled. With maximize technology, student data management can be done in a way more structured and efficient, reducing error humans, and speed up the retrieval process decision. In the context of this, technology allows managers Islamic boarding school For focus on tasks strategic others, such as development curriculum and coaching character students. (AZQIA nd)

A number of study support matter this. As example, Sari et al. (2020) shows that implementation technology for management in Islamic boarding schools can speed up channel Work administrative, reducing use paper, and increase transparency in data management. Research by Alkhadri and Rahman (2020) also confirmed that use technology in management Islamic boarding school can increase efficiency communication between managers and students. This is allowing management for convey information with faster and more effective, without must depends on the ways traditional food that eats time. In addition, research by Hidayat et al. (2020) added that implementation technology in education Islamic boarding school can repair quality learning with integrating digital media in the learning process teach. They take notes that technology increase access student to material more education varied and up-to-date. In addition, research by Setyawan et al. (2021) emphasizes importance device soft management for help Islamic boarding school in management finance like quarterly and e provision santri. Based on findings this, can concluded that technology give significant contribution to improvement efficiency managerial in Islamic boarding schools.

In conclusion, technology own a very important role in increase efficiency operational Islamic boarding school. Use technology for management Islamic boarding school proven can speed up and simplify administrative processes, which in turn reduce burden Work manager Islamic boarding school. Implementation technology This No only profitable in aspect administratively, but also in management source power and education. Therefore that 's important for Islamic boarding school For Keep going adopt and develop technology use increase quality managerial and operational they.

Apart from speeding up administrative processes, technology also plays a role in increase communication and coordination in the environment Islamic boarding school and also outside Islamic boarding school. Management effective Islamic boarding school need smooth communication between manager, teacher, guardian students and students. With the existence of digital platforms, both for announcements, schedules, and discussion between managers and students, communication become more efficient. This is very helpful in increase productivity and collaboration between parties involved in activity Islamic boarding school. With technology, Islamic boarding school can overcome the usual problems arise from ineffectiveness communication traditional food that eats time.

The reason why technology play a role important in communication is Because technology provide a platform that enables manager Islamic boarding school for access information with fast and share information in real-time. Various management Islamic boarding school based on technology allow manager for give information related activity Islamic boarding schools, learning, and announcement other with easy. The result of research by Setyawan et al. (2021) shows that use application based on technology in Islamic boarding schools can speed up distribution information to students and caregivers Islamic boarding schools. In addition, research by Sari et al. (2020) revealed that communication between managers and students become more organized and effective through digital platforms, which reduces miscommunication. Research by Hidayat et al. (2020) also shows that use technology in internal communication of Islamic boarding school can speed up coordination and collaboration between administrator Islamic boarding school. More Furthermore, Wulandari and Fitriani (2021) explained that digital technology in Islamic boarding schools open opportunity for manager for involving student in discussion and consultation related policies and

decisions taken, providing they more sound big in the process of taking decision.

With Thus, it can conclude that implementation technology in management Islamic boarding schools is very influential to improvement efficiency communication and coordination. Use management based on technology make it easier management information and speed up current communication, so that increase productivity work in the environment Islamic boarding school.

Furthermore, technology also contributes in increase quality education provided in Islamic boarding schools. The use of digital media allows Islamic boarding school for access source Power more education wide, facilitating learning, and introducing method more teaching innovative. This is important, considering education in Islamic boarding schools often behind in matter infrastructure and resources Power compared to with schools conventional. With technology, Islamic boarding school can offer more curriculum diversified and relevant with current development.

Reason for use technology for increase quality education is Because technology give access to student for follow development knowledge knowledge latest through online learning platforms and resources digital power. Research by Alkhadri and Rahman (2020) shows that with existence technology, Islamic boarding school can introduce method learning more multimedia based interesting and interactive for santri. In addition, research by Setyawan et al. (2021) added that integration technology in learning in Islamic boarding school help student for access material lesson with easier, especially in eye lessons that require understanding deeper, like knowledge knowledge and technology. Research by Wulandari and Fitriani (2021) also revealed that use technology in learning in Islamic boarding school increase quality teaching with provide access to more material varied and up to date. Further, Hidayat et al. (2020) noted that based teaching technology make it easier student for learning outside formal school hours, allows they for continue education in time free time.

In conclusion, technology own potential big in increase quality education in Islamic boarding schools. With more access easy to various source Power education and methods more learning interactive, santri can accept more education quality and appropriate with development knowledge knowledge. Therefore that, integration technology in education Islamic boarding schools is very important for prepare student face global challenges.

Challenge in implementation technology in Islamic boarding schools Of course just No can ignored. One of the challenge the biggest is lack of digital skills among manager Islamic boarding schools and students. Although technology offer various benefits, adoption constrained by low level digital literacy in the environment Islamic boarding school. This is needing attention specifically for technology can accepted and utilized optimally.

Main reason challenge This appear is inability part managers and students in access and operate device technology with effective. Research by Hidayat et al. (2020) states that Still Lots Islamic boarding schools in trouble in provide training technology for managers and students. Sari et al. (2020) also revealed that constraint other is limited source supporting power and infrastructure implementation technology in Islamic boarding schools. Research by Alkhadri and Rahman (2020) added that digital divide between Islamic boarding school cause inequality in ability implement technology in a way maximum. Therefore that, Setyawan et al. (2021) proposed importance existence training sustainable for manager Islamic boarding schools and students so that they can utilise technology with better. Although There is challenge these are the findings the show that effort training and improvement infrastructure can overcome problem the.

## **CONCLUSION**

Findings This strengthen draft that technology can become empowering tools organization education, especially in context Islamic boarding schools that have limitations source power. Implementation technology No only increase efficiency, but also opens up opportunity for innovation in method teaching and management Islamic boarding school. In the context of this, technology become catalyst for more changes

systematic and measurable, which leads to an increase quality service education and management.

Study This disclose role significant technology in increase efficiency management in Islamic boarding schools. Findings main from study This is that utilization technology, such as application management finance, system information Islamic boarding schools, and digital communication platforms, can speed up the administration and management process source Power Islamic boarding school, which was previously done manually. Manually overall, research This show that integration technology in management Islamic boarding school No only increase efficiency operational, but also can give impact positive in quality education and management source Power Islamic boarding school. Therefore that, utilization technology become step important in ensure Islamic boarding school still relevant and powerful compete in this digital era.

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