Learning Media Innovation In Learning Activities

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ABSTRACT

In the educational context, the use of learning media has a significant impact. Learning media functions as a liaison between teachers and students, delivering information and subject matter using methods that are better and easier to understand. The aim of this study is to explain how innovation in learning media can increase learning effectiveness. This study uses the Systematic Literature Review (SLR) method. The necessary data was collected through recording articles relevant to the topic of this study. A total of seven relevant national journal articles were found through the Google Scholar database and used in this study. In accordance with research, learning media innovation is very useful for developing knowledge and making learning activities easier.

Keyword : Educational Innovation, Learning Media

INTRODUCTION

Education has a crucial role in the progress of a nation and state. In Indonesia, education must play a positive role in adapting to technological developments in the era of industrial revolution 5.0. In the midst of this era of globalization, the quality of education must be the main focus. Increasingly fierce competition in several aspects of life requires educational institutions to produce competitively superior graduates. Not only does it emphasize intellectual intelligence alone, but also the development of four other aspects of intelligence, namely Emotional Intelligence, Spiritual Intelligence and Transcendent Intelligence. This aims to produce graduates who are not only intellectually intelligent, but also have strong character and morals (A.A.Ritonga, Y.W.Lubis, S.Masitha, C.P.Harahap, 2022).

Developments in the world of education are firmly connected to the concept of innovation. Innovation, in the educational context, is considered a necessity that must be adopted by all parties involved in the world of education. This is exacerbated by rapid growth and progress in science and technology, which has a direct impact on the educational process. Current changes and advances create continuous dynamics in the field of education. This progress is becoming increasingly felt and demands innovation, as can be seen from the emergence of increasingly developing digital education systems. However, the presence of this digital education system also forces the world of education to learn and prepare itself in adopting a digital-based education system and relying on internet services. This digital education concept involves various supporting devices, such as LCD projectors, laptops, smartphones, tablets, and extensive internet access (M. Prasrihamni, A. Marini, M. Nafisah, N. Surmilasari, 2022).

The competition that exists during this era of globalization triggers competition between countries, which forces the quality of human resources to improve. Education is an important key in human resource development. For the government, this is a big challenge in improving the quality of

the education system. Meanwhile, for lecturers and teachers, the challenge is to integrate technology and education into the learning system to improve the quality, relevance and attractiveness of learning (A.A.Ardiansyah, Nana, 2020). The challenge that is clearly visible in the 21st century is the increasing need for education that can respond to global demands, namely producing individuals who are able to compete intelligently. In other words, education in the 21st century focuses on developing intelligence so that individuals are equipped with skills that enable them to overcome challenges in everyday life (I.Rosmilawati, I.R.Meilya, D.Darmawan, 2020).

The role of technology in the educational context is considered to have very important significance. Educational progress in a nation is often used as a benchmark for assessing a country's capabilities and readiness. Therefore, it is hoped that the use of technology can provide an increase in standards and quality in our education as a whole. One approach adopted is to utilize technology as an innovative learning tool and platform. It is hoped that this will provide a more interesting and meaningful learning experience for students. Teachers, as professional educators, are expected to have a deep understanding of the relevance of technology in today's learning context. The use of technology not only changes the role of teachers into information providers, but also makes them facilitators and learning partners for students. Therefore, it is important for a teacher to be able to choose and implement an effective learning model so that the material presented can be understood well by students and learning outcomes can be improved. The use of digital technology in learning models is one way to achieve this goal. Learning skills using digital technology are expected to help students gain knowledge more quickly and develop the necessary life skills. Apart from that, technology can also make it easier for educators to develop learning materials that are relevant to the needs and developments of the times. The scientific approach emphasizes that both teachers and students need to be able to adapt to developments in science and digital technology in order to remain relevant and competitive (I.I.Firdos, I.Permarasari, M.Rahmawati, Wahyono, 2022).

Mobile learning, or what is usually abbreviated as M-Learning, is an innovation in learning that has a central role in transforming the teaching and learning process. In this context, students not only act as passive recipients of the explanation of material presented by educators, but are also required to be active in various activities such as observations and demonstrations. Flexibility in presenting material is key in M-Learning, where teaching material can be delivered in a variety of more dynamic and most active formats. This encourages students to be actively and deeply involved in the learning process. The use of M-Learning makes learning activities easier, both in the context of learning that occurs in the classroom and independently outside the classroom. This approach involves the use of mobile devices such as PDAs, smartphones, tablet PCs, and laptops. By using this device, students have easier access to relevant learning materials, directions and applications, without being bound by space and time constraints. In other words, M-Learning allows learning to be carried out wherever and whenever they are. Conceptually, M-Learning is part of the electronic learning paradigm (e-learning), so indirectly it is also classified as distance learning (d-learning), in accordance with Erlinawati's views (P.Mariati R. Asmarani, Sunanto, A. Hadiningrm, 2021).

Improving the quality of education has a central role in determining the development of a country. The quality of education can be improved through various learning processes, which become an integral part of an individual's journey towards achieving their goals. The learning process focuses on memory development, information retention, data processing, and other important intellectual aspects. One of the efforts taken by the government to improve the quality of education is by revising the curriculum, as seen in the KTSP curriculum and the 2013 curriculum. These curricula emphasize a competency-based learning system, which requires students to be able to plan, explore, interpret and evaluate results. their own learning. Continuous technological developments, such as smartphone technology, also play a role in advancing learning. The availability of smartphones at affordable

prices has resulted in increased use of applications for various purposes, including communication, transportation, entertainment, productivity and learning (A.A. Ardiansyah, Nana, 2020).

Developments in the world of education are always closely related to the concept of innovation. Innovation in the educational context is not just a choice, but a necessity for all individuals involved in it. Especially with the rapid growth in science and technology, the need for innovation is becoming increasingly urgent. The impact of changes in the field of education is not only limited to the educational space itself, but also extends to various other aspects of life, including economic, technological and even cultural aspects. The need to innovate in education is not only for the continuity and progress of education itself, but also to prevent stagnation which could have an impact on other fields such as politics, economics and social (M.A.Najib, B.Maunah, 2022).

The impact of changes in the world of education not only affects the education sector itself, but also permeates various other areas of life, from economics, technology, to culture which are significantly influenced by technological advances. In the realm of education, innovation is a necessity that cannot be ignored by every stakeholder, because without innovation, it is possible that stagnation will occur in the world of education, which in turn will have an impact on various other aspects of life such as politics, economics and social (M.A.Najib, B .Maunah, 2022).

In the digital era which continues to experience rapid growth, the information and communication technology revolution has significantly changed almost all aspects of life, including the education sector. Technological developments have induced fundamental changes in the learning paradigm, triggering the adoption of more innovative and interactive learning media to increase the effectiveness of learning amidst the challenges of the times. Education must be able to adapt to these changes, responding to the needs of a society that is increasingly dependent on digital technology. In this digital era, where even elementary school children have the skills to use technology in their daily lives, the use of revolutionary and dynamic learning media is increasingly important. Interactive media has the ability to create a more interesting and exciting learning experience, which in turn can stimulate students' enthusiasm for learning to a higher level (F.T.S.Utomo, 2023).

Improving the quality of education, especially in the learning process, is not as easy as many people often think. The process of change and innovation in education requires sufficient time and must be prepared by considering overall improvements, including from the perspective of educational actors. Even though there have been many attempts at change and innovation in the field of education, some of them have not been able to have a significant impact on improving the quality of education in our country. This is caused by the low implementation of innovative policies from the central government at the school level, which are often not in accordance with the potential of each school, including the availability of facilities, the condition of human resources, as well as existing natural resources (SDA) (M. Prasrihamni, A .Marini, M. Nafisah, N. Surmilasari, 2022).

In the realm of education, the role of learning media is very important. This media has a vital role as a bridge between teachers and students, conveying information and learning materials in an interesting and easy to understand way. Especially in the current digital era, where elementary school students are accustomed to technology in their daily lives, the use of innovative and interactive learning media is becoming increasingly important. Media that can interact has the potential to create interesting and enjoyable learning experiences, which can increase student learning motivation (F.T.S.Utomo, 2023).

In general, the development of interactive learning media has brought a significant revolution in the effectiveness of learning in the current digital era. Through the use of interactive media, the learning experience becomes more interesting, comprehensive and engaging for students. However, to achieve optimal results, careful design, relevant content and serious attention to accessibility aspects are required. With careful implementation, interactive learning media can be a very effective tool in

achieving better educational goals in the ever-growing digital era. One of the main advantages of using interactive learning media is its ability to present information in various visual and multimedia forms. Rich visualizations and multimedia content can help elementary students understand complex concepts better. Interactive simulations and learning videos provide a clear picture of various phenomena and processes that are difficult to understand using words alone. With this interactive media, elementary level students can experience deeper learning and strengthen their understanding of various lesson materials (F.T.S.Utomo, 2023).

RESEARCH METHODS

In this research, the approach adopted is Systematic Literature Review (SLR). Researchers use this method by identifying, reviewing, evaluating and interpreting the results of existing studies. With this approach, researchers systematically review and identify relevant journals, following the steps that have been established in the process.

In accordance with these various stages, researchers looked for journal articles with the keyword innovation in school education. Researchers looked for 50 articles related to innovation in school education. Then, a selection of seven journals that were relevant to similar studies was carried out, after which the journals were analyzed in depth and a summary was prepared. The findings from the research were then combined into one comprehensive discussion which is outlined in this journal.

RESULTS AND DISCUSSION

Innovation or improvement in education includes the introduction of new elements that did not exist before, intended to improve the quality and effectiveness of learning. This innovation process is deliberately carried out to achieve certain goals in the educational context. After passing the innovation stage, education undergoes a transformation to become more exclusive in directing the learning success desired by educational institutions. The success of this innovation can be seen from the results produced by graduates who are superior and in line with expectations (M. Prasrihamni, A. Marini, M. Nafisah, N. Surmilasari, 2022).

In accordance with references from journal articles that have been selected according to the predetermined inclusion criteria, the following is a summary of the study results presented in table 1.

Table.1 Results of Research on Innovation in Education

NO	Title/Content	Note
1	The Role of Mobile Learning as an Innovation in Improving Student Learning Outcomes in School Learning (Abd Aziz Ardiansyah, Nana, 2020)	In accordance with the findings from a series of studies, it can be concluded that the use of Android-based mobile learning media has been proven to be successful in increasing the effectiveness of learning for the students being taught. A study carried out by Hadi, as quoted in Mahardini (2017:42), shows that Android-based research achieved an average questionnaire score of 77.91%, which can be categorized as good results. Meanwhile, studies carried out by Astra (2015:1081) and also in Mahardini (2017:42) found that the media was considered appropriate by experts with a percentage of 83.13%. Likewise with the study carried out by Lu'mu., (2017), which stated that

		Android-based learning applications were considered very good, valid, practical and efficient. Overall, it can be said that this learning media is considered good and appropriate by material and media experts, with an average feasibility percentage reaching 79.85% and 87.96% respectively. Trials carried out in schools showed very encouraging results, with an average feasibility percentage reaching 85.38% for small group trials and 83.92% for field trials in three schools. This confirms that Android-based mobile learning media is not only effective, but can also be well adapted to students' needs and abilities. However, It is important to remember that learning outcomes are also influenced by students' individual skills and talents. Therefore, teachers need professionalism in teaching so they can maximize the creative potential of students who are taught using learning media. Thus, the implementation of Android-based mobile learning media can be an effective solution in improving the quality of learning in schools.
2	The Role of Technology in Developing Learning Innovations in Elementary School Education (Ilham Insani Firdos, Intan Permatasari, Mitaahur Rahmawati, Wahyono, 2022)	The results of this study show that innovation in the learning process can be carried out by teachers or educators through the application of e-learning based teaching methods. By utilizing the internet, the teaching and learning process can occur virtually, allowing interaction from a distance. To become an effective teacher as a guide, innovative characteristics are needed that involve refreshing the curriculum, teaching strategies, and the use of the latest media and technology that is more meaningful and beneficial for learning effectiveness. The role of technology in the learning context is identified as a tool for teachers to deliver material to elementary school students. The use of technology, such as audio visuals and animation, has been proven to improve student learning outcomes. There are learning innovations at various grade levels, from low to high grades, including showing animations for low grades and using Google Classroom for high grades. This allows students to be more actively involved in the learning process, from the investigation stage to conducting experiments, according to their abilities. Not only as a tool, technology also plays a role in motivating and increasing students' interest in learning. However, the teacher's role remains important in supporting the learning process. A teacher is expected to be able to master technology that continues to develop to create innovation in learning. Creative initiatives are also key in enriching students' learning experiences.
3	Mobile Learning Based Arts Learning Innovation for Elementary School Teacher Students (Pance Mariati, Ratih Asmarani, Sunanto, Andini Hardiningrum, 2021)	In accordance with the results of the study, it was found that learning art through mobile learning for PGSD students had a positive impact. The implementation of online art learning can run smoothly and achieve success desired learning targets. Even though there are no direct

		meetings, theoretical material and artistic practice can still be delivered effectively. Students can continue to be creative and create art through the mobile learning platform. They can access various resources about art via the internet, in accordance with the latest developments. However, there are several challenges in implementing this learning, such as signal problems and the need for a large internet quota for long duration learning. The diagram results show that the majority of students prefer to use social media platforms such as YouTube, TikTok, Instagram and Twitter as learning tools. This mobile learning-based art learning innovation is a smart solution in facing the challenges of online learning. However, it is important for educators to continue to innovate in creating interesting learning strategies to improve students' skills. Even though art learning is carried out online through mobile learning media, the hope is that students can still master the material well according to their achievements in each subject.
4	Educational Innovation in the Digital Era (Study of the Implementation of Learning at the Elementary and Middle School Levels in Tulungagung Regency) (Muhammad Ainun Najib, Binti Maunah, 2022)	The results of this study show that the implementation of innovation in education models in the digital era must be carried out comprehensively. Digitalization in the modern era must start from the role of the teacher who is a key element in supporting the learning process, especially in the context of educational innovation in the digital era. Teachers are not only implementers of education but also the main movers in the teaching and learning process. The ability and professionalism of teachers are vital factors that are inseparable in ensuring educational success. As a guide and facilitator of learning, teachers are responsible for guiding students towards better understanding. The quality and skills of teachers are reflected in their mastery of the material, application of teaching methods that suit students' needs, as well as the ability to build good relationships between individuals, both with students and other fellow teachers. The role of teachers in educational innovation is very important, from planning to evaluation, because without their involvement, the success of the innovation could be threatened. Students also have an important role in this context. They are not just recipients of material, however You can also share knowledge and experiences with your classmates. The quality of students must be considered by educators to facilitate the learning process better. Apart from teachers and students, other factors that influence the success of educational innovation are the school curriculum and supporting facilities. The school curriculum is a guideline for the implementation of education, while adequate facilities are very important to support the optimal implementation of educational innovation.
5	Blended Learning as an Alternative	The results of this study show that blended learning can be

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	Innovative Learning Model in the Post-Pandemic Period in Elementary Schools (Indra Kartika Sari, 2021)	applied in elementary schools both offline and through a hybrid learning model. The implementation of blended learning has a positive effect on students' reading abilities, providing an effective means to improve their performance in reading. Regression analysis shows that students' progress in understanding in online learning is more significant than that which can be achieved through conventional reading tests. This blended learning model has flexibility that allows it to be adapted to various learning activities. Through this model, teachers can identify students' needs and potential more precisely, thereby providing more targeted guidance. However, the success of a blended learning program really depends on the teacher's efforts to ensure that students actively use digital components. Blended learning with a discovery learning approach can improve students' critical thinking skills with a significant N-gain of 0.485, which is in the medium category. This happens because of student interaction in small groups in an online learning environment. The implementation of STEM-based blended learning has also been proven to increase student achievement compared to traditional instruction methods. Blended learning provides direct benefits in learning, encourages independence and students' intrinsic motivation. In this approach, students have greater control over their own learning process. This learning model has been proven effective and promising, using various online platforms such as Google Classroom, Edmodo, and various educational websites. Even though it has advantages, some students may be less active in online learning due to the lack of direct supervision by the teacher. Therefore, special attention needs to be paid to ensuring students' active involvement in the online learning process. In the 21st century education era, technology integration is crucial to improving the quality of learning.
6	Fun Learning Through Whatsapp Media in Distance Learning for Grade 1 Elementary School (Andi Asmawadi, 2021)	Fun learning methods, such as Fun Learning, are suitable for application in both conventional and distance learning, especially at the basic education level. At elementary school age, especially grade 1, a thematic learning approach becomes important because children at this age see the world as one unit and learn better through direct experience with real objects. In the teaching and learning process, a conducive environment plays an important role in children's development. A fun environment encourages children's creativity, helps them develop their imagination, and makes learning a meaningful experience. In the Fun Learning method, children are given the opportunity to experiment with basic concepts before starting learning. This helps them feel more comfortable and not burdened with the study material. Implementing fun learning involves the use of praise, humor, and games that are

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		appropriate to the lesson material. Teachers must also manage WhatsApp groups in the same way as managing face-to-face classes, including sending video recordings of the opening of the lesson and greeting students. The following steps can be taken in implementing Fun Learning via WhatsApp: 1) Teachers can interact with students via WhatsApp audio recordings to ask about news and ask for answers from students. 2) Motivation and a happy atmosphere must be created so that students remain enthusiastic. Video and audio recordings can be used to encourage students. 3) Teachers can explain learning material in a creative way through audio and video recordings, as well as share summaries of thematic modules to be studied. 4) Students can be given assignments and practice learning by sending assignments in the form of videos, audio recordings or photos. These tasks should be accompanied by parents. 5) Student assignments and assessments can be sent via the WhatsApp group. Implementing Fun Learning via WhatsApp requires the use of videos, audio recordings and assignment files in an interesting way so that students can easily understand them. Media support and the role of parents are very important for the success of this learning.
7	Interactive Learning Media Innovation to Increase the Effectiveness of Digital Era Learning in Elementary Schools (Fuad Try Satrio Utomo, 2023)	The study results confirm that various types of interactive learning media, such as learning videos, have become popular in the world of education. Learning videos, as a form of media, have the advantage of conveying information audiovisually, helping elementary school students to visualize abstract concepts, and increasing their understanding. Research also shows that the use of learning videos can increase information retention and student engagement in the learning process. On the boat, interactive simulations have also proven to be an effective learning tool. Simulations allow elementary school students to experience various situations or events in a safe and controlled environment. Through simulations, students have the opportunity to make decisions and see the consequences of their actions, which stimulates critical thinking and independent exploration. Educational games, with An approach that combines game elements, such as challenges and competition, is able to attract elementary school students' interest in learning, as well as motivate them in a fun way. Educational games often combine game elements, such as challenges, competitions, and achievements, thus making the learning process more interactive and fun. In addition, digital-based learning platforms have become sophisticated and continuously developing learning media, providing access to various learning materials and multimedia content that are in accordance with the curriculum. However, despite its significant benefits, the implementation of interactive

		learning media is faced with several challenges, especially related to the availability of technological infrastructure and accessibility. Not all schools have adequate technological devices or stable internet connections, especially in remote or low-income areas. In addition, not all teachers have sufficient technological understanding and skills to integrate interactive learning media in their teaching, so adequate training and support is needed. Lack of understanding and technological skills can hinder the effective implementation of interactive learning media. However, with this learning platform, students can access study materials independently, collaborate with fellow students, and get instant feedback. This has proven to be useful in increasing student learning motivation, strengthening understanding of concepts, and increasing active participation in learning.

Innovation in education includes efforts to adapt to current developments, especially ongoing digitalization. Updates and progress need to occur in aspects related to the world of education in order to maintain quality education standards in Indonesia. However, the implementation of educational innovation by utilizing digital advances is often hampered by several factors, such as limitations in understanding systems, methods, language as a tool, as well as limited availability of facilities.

Innovation in the field of education can be interpreted as an effort to refresh educational approaches so that they remain relevant to current developments, especially in the current digitalization context. It is important to carry out the renewal process in various aspects related to the world of education, in order to maintain the ongoing quality of education in Indonesia. However, the implementation of educational innovation by utilizing advances in digital technology is hampered by various factors, such as understanding the system, teaching methods, use of language as a communication tool, ability to interpret information, institutional structure, management, and mastery of science and technology.

Apart from that, various aspects in the world of education need to be rejuvenated to maintain the quality of education, such as the role of teachers, student conditions, curriculum and infrastructure. The integration of these factors with the use of digital technology or the internet which continues to develop is crucial in efforts to improve the quality of education.

In accordance with the findings of the study, innovation in educational models in this digital era should be implemented comprehensively. This includes the application of the digitalization concept in various aspects, starting from school principals, teachers, students, curriculum, to infrastructure. In this way, the learning process can develop better.

Therefore, it is recommended that every educational actor adopt basic concepts in implementing digital learning by utilizing facilities such as the internet as a necessity, not just because the situation demands it. Mobile learning-based learning media, especially those based on Android, have been proven effective in improving learning outcomes, and are included in the good category as learning media. Apart from that, the suitability of students' skills and talents can have an impact on learning outcomes, so teacher professionalism in teaching is very important to inspire student creativity through learning media.

The findings from the seven journals highlight the urgency of innovation in learning media to support the learning process in schools, from elementary to tertiary levels. These studies show that introducing learning media innovations makes a significant contribution in facilitating the teaching

and learning process. From the review of these articles, it can be seen that the adoption of innovative learning media can encourage active participation from students and teachers, as well as have a positive impact on educational progress.

In the context of education in the digital era, it is important for learning models to be thoroughly updated. This includes adapting learning concepts to the digital era, which includes various aspects such as developing teacher skills, integrating technology in the curriculum, as well as providing facilities that support digital learning. By carrying out a comprehensive transformation, learning can develop optimally according to the demands of the times. The use of the internet and digital technology is not just an option, but an urgent need in facing today's learning dynamics.

Innovation in developing learning media is considered a strategic step in increasing the effectiveness of learning in the digital era. By implementing interactive learning media appropriately, we can use it as an effective means to achieve better educational goals in today's ever-growing digital era.

CONCLUSIONS

The conclusion obtained from the research above is that in the digital era like now, learning media innovation is really needed to support learning activities. Technology in learning as a medium or learning tool for teachers to make it more interesting in delivering material and so that it is easier for students to accept and understand. The readiness of teachers and students also greatly influences the success of a learning media innovation that is put into practice. The use of the internet and digital media really helps teachers and students because they can access learning resources easily and more accurately.

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