Preserving Tradition Amid Disruption: A Systematic Literature Review (SLR) of *Pesantren* Development in Indonesia

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Abstract

This systematic literature review aims to present recent findings on the development of *pesantren* in Indonesia and to examine the efforts made by pesantren to address the challenges of a global society while preserving the traditional values inherent to pesantren during the era of disruption. This study employs the Systematic Review of Literature (SLR) methodology, structured according to the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) framework. The data collected for this research consists of peer-reviewed articles published between 2020 and 2024. A total of 24 articles that met the inclusion criteria were analyzed and serve as references for this study. The analysis reveals that pesantren remain relevant to the demands of the times and the needs of society. The implementation of modern curricula, the integration of technology, and the involvement of local communities are key strategies employed by pesantren to maintain a balance between innovation and tradition. This research highlights the significant role of pesantren leaders as central figures in guiding the modernization of pesantren without compromising traditional values. The findings of this systematic literature review are expected to provide strategic insights for pesantren to remain relevant and adaptive to the dynamic developments in the global societal ecosystem.

Keywords: disruption, modernization of *pesantren*, islamic education, *pesantren* traditions.

Introduction

Pesantren is traditional Islamic educational institutions that have long been integral to Indonesian society (Machmudi, 2015). Pesantren plays an important role in religious education in Indonesia, covering the teaching of Islam from essential to advanced levels (Winata et al., 2022). In addition to religious knowledge, pesantren also emphasize the formation of good morals for their students (*santri*) (Rusmiati et al., 2022). In addition, pesantren is social and cultural institutions that influence people's lives (Tatang & Deak, 2022). Pesantren has other characteristics that have taken root and have developed amid society, namely the function of community development (Hakim & Aksa, 2021).

Despite the challenges of modernization, pesantren remain a relevant and important educational institution in Indonesia. It cannot be denied that pesantren is an educational institution that has become an integral part of the history of Islamic education in Indonesia. Since the 13th century, pesantren began to be established as a place of education for *santri* who wanted to explore religious knowledge (Wati et al., 2022). Pesantren first emerged as a response to the community's need to explore the teachings of Islam, which were introduced by scholars and *mubaligh* from various regions, including the Middle East and India (Setiawan et al., 2023).

Pesantren developed rapidly along with the spread of Islam in Indonesia. Kurniawan explains that initially, pesantren focused on teaching classical books, such as kitab kuning, which discuss fiqh, Sufism, and other Islamic sciences. However, since the 19th century, especially with the influence of Islamic reform, pesantren began to integrate modern curriculum while maintaining traditional values (Kurniawan, 2023). Apart from being educational institutions, pesantren play a role in character building, morale, and preserving local cultural traditions (Arif et al., 2020). Today, thousands of pesantren across Indonesia adapt their teaching models to the needs of society. Alam emphasized that pesantren produce a generation skilled in religious knowledge while understanding Islamic culture and values. To face the challenges of globalization, pesantren is required to adapt while maintaining their traditional heritage (Alam, 2018).

As discussed in various studies, Pesantren faces the dilemma of modernization and globalization. According to Shulhan, pesantren in Indonesia need to remain relevant in the modern era while maintaining traditional values (Shulhan, 2021). Triono et al. noted that conservatism often hinders the modernization of education in pesantren (Triono et al., 2022). Thus, the integration of modern curricula must be done carefully so that the identity of pesantren is maintained (Listrianti & Mundiri, 2020). On the other hand, globalization offers benefits such as access to technology and information that supports teaching innovation (Nikmatullah et al., 2023) and (Shidiq & Mubin, 2022). However, the conflict of values due to the influence of foreign cultures, which makes santri trapped between modernity and tradition (Mujib et al., 2021). Pesantren needs to adapt digital technology to expand the reach of education and reduce inequality (Rahmat & Rudi, 2023).

Furthermore, pesantren faces the challenge of maintaining local traditions and values amidst the ever-evolving global dynamics (Mukhibat, 2020). The collaboration with formal education institutions can be a solution to keep

pesantren adaptive without losing their identity (Mustakim, 2019). This study aims to present the latest findings regarding the development of pesantren in Indonesia and strategies to maintain traditional values in the era of modernization and globalization. The results are expected to provide insights for pesantren caregivers in integrating traditional values to meet the needs of modern society as part of the global community .

This study used the Systematic Review of Literature (SLR) method with the guidance of The Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) (Page et al., 2021). This research aims to answer two questions: (1) how does the impact of modernization and globalization on education and religious values in pesantren, and (2) what are the efforts of pesantren in maintaining tradition amid the challenges of modernization and globalization?

The literature search was conducted using Google Scholar through Harzing's Publish or Perish software. The keywords used were "modern era pesantren development," combined with the Boolean technique "challenge OR strategy," and limited to article titles published between 2020 and 2024. From the search results, 200 articles were obtained, which were then managed using Mendeley. These articles were further screened using the PRISMA approach to ensure relevance to the research objectives.

The article selection process was guided by the inclusion criteria and exclusion criteria described in Table 1. This process followed the PRISMA stages, which began by excluding articles found to be by the exclusion criteria. The researcher continued the process by retaining articles that fit two criteria, namely (1) the relevance of the title and abstract of the article and (2) the full text of the article whose substance is by the research objectives.

Table 1. Inclusion and Exclusion Criteria

Inclusion Criteria	Exclusion Criteria
Published after 2020-2024	Published before 2020
Article is a peer-reviewed journal	The article is not a peer-reviewed journal
Written in Indonesian or English	Text is not written in Indonesian or English
Related to the challenges and strategies of pesantren in Indonesia in facing globalization and modernization	Not related to the challenges and strategies of pesantren in Indonesia in facing globalization and modernization
Empirical research	Not empirical research

Based on the selection process, researchers used 24 articles whose title, abstract, and substance were in accordance with the Inclusion Criteria, which

then continued at the analysis stage. The analysis technique used in this research is thematic analysis, which refers to Braun and Clarke (Braun & Clarke, 2006).

Result and Discussion

Based on the results of the literature selection process using PRISMA frameworks, researchers found 24 articles to be further analyzed as an effort to answer research problems about the impact of modernization and globalization on pesantren and the efforts made by pesantren in maintaining traditions amid the challenges of modernization and globalization. The results of the thematic analysis revealed four findings, among others: (1) the role of pesantren in the modern era, (2) the challenges and opportunities of pesantren modernization, (3) balancing tradition and innovation, and (4) efforts of pesantren to survive amid modernization. The results of the analysis are described in Table 2.

Table 2. Analysis Results

Author & Year	Theme			
	The Role of Pesantren in the Modern Era	Challenges and Opportunities of Pesantren Modernization	Balancing Tradition and Innovation	Pesantren's Efforts to Survive Amidst Modernization
(Abidin, 2020)	Educating students (*santri*) with a combination of religious knowledge and technology.	Technology adoption faces digital disruption and increases competition.	Integrating traditional methods with e-learning and modern technology.	Implementing adaptive and technology-based education management.
(Aji & Setyarini, 2020)	Providing religious and general education, preparing santri to face global challenges.	Traditional mindset and funding constraints, as well as opportunities to improve the quality of education and facilities.	Integrating classical traditions with modern curriculum and technology.	Implementing new learning methods, improving the quality of human resources, and updating facilities.
(Yanto et al., 2023)	Pesantren adapts, improves the quality of education, and prepares santri to face digital challenges.	Data security and cost challenges, opportunities to improve efficiency and accessibility of education.	Pesantren maintains scientific traditions while adopting modern technology in education management.	Implementing digital systems for efficient administration, learning, and communication.

Author & Year	Theme			
	The Role of Pesantren in the Modern Era	Challenges and Opportunities of Pesantren Modernization	Balancing Tradition and Innovation	Pesantren's Efforts to Survive Amidst Modernization
(Badi'ah et al., 2021)	Pesantren as social control and educational institutions that integrate technology.	Technology adaptation challenges and opportunities to improve the quality of education and resource development.	Combining traditional methods with digital literacy for relevant education.	Implementing technology in learning and developing an information-based curriculum.
(Bakri & Mangkachi, 2021)	Pesantren functions as educational institutions that maintain Islamic values and adapt to social change.	Challenges include negative stigma; opportunities exist to develop formal and non-formal education.	Pesantren integrates traditional curriculum with general education to meet the needs of society.	Pesantren adapts to new technologies and cultures while maintaining existing religious values.
(Basori et al., 2023)	Pesantren educates generations based on religious values and general knowledge.	Modernization presents adaptation challenges and opportunities to improve the quality of education.	Pesantren integrates traditional values with modern educational practices to remain relevant.	Pesantren implements management innovations and educational programs to meet the community's needs.
(Chotimah et al., 2023)	Pesantren function as centers of education and character building in society	Challenges include traditional image and infrastructure; opportunities through education and curriculum innovation.	Pesantren maintains tradition while adopting new values and methods for relevance.	Pesantren innovates the curriculum and general education to meet the demands of the times.
(Fatmawati & Rifa'i, 2021)	As an Islamic educational institution, Pesantren is adaptive to change and produces scholars with technological insight.	Challenges in the form of negative stigma; opportunities in integrating modern curriculum and technology-based teaching.	Pesantren integrates classical curriculum with digital learning for relevance in the modern era.	Pesantren adapts through formal education and adjusts teaching methods to the times.

Author & Year	Theme			
	The Role of Pesantren in the Modern Era	**Challenges and Opportunities of Pesantren Modernization**	**Balancing Tradition and Innovation**	**Pesantren's Efforts to Survive Amidst Modernization**
(Ghofur, 2020)	Pesantren, as centers of Islamic education, remain relevant in answering the needs of modern society.	Challenges come from external intervention; opportunities lie in adapting curriculum and learning methods.	Pesantren adopts change while maintaining the traditional values and culture of society.	Pesantren modernizes through collective leadership and curriculum contextualization.
(Harmath ilda et al., 2024)	Pesantren shapes the character, morals, and spirituality of the younger generation.	Challenges in adapting technology and culture, opportunities for integration of general education.	Pesantren maintains tradition while adopting relevant innovation values.	Integrating religious and general curriculum and utilizing educational technology.
(Jaenullah et al., 2022)	Pesantren shapes santri morals to remain relevant amidst the modernization of education	Challenges: marginalization; Opportunities: curriculum integration and skills development.	Pesantren adopts innovation while preserving traditional values.	Adapting education patterns and strengthening the character of santri.
(Kawakip, 2020)	Pesantren function as centers of education and strengthening of Islamic values.	Challenges in the form of foreign cultural influences, opportunities through adaptation and curriculum development.	Pesantren integrates tradition with modern education for relevance.	Strengthening traditional values while adopting new skills and technologies.
(Kholifah, 2022)	Becoming educational institutions that adapt to technology and meet social needs	Challenges in the form of globalization; opportunities in access to information and collaboration.	Integrating traditional values with technology and modern learning methods.	Implementing digital literacy and extracurricular programs and improving the quality of education.
(Machmu di, 2015)	Pesantren play a role in education, economy, and society in Indonesian society	Challenges: Modernization threatens tradition; Opportunities: Adaptation for relevance in society.	Pesantren maintains tradition while adopting modern	Efforts: Maintaining traditional values and close relationships between kyai and santri.

Author & Year	Theme			
	The Role of Pesantren in the Modern Era	**Challenges and Opportunities of Pesantren Modernization**	**Balancing Tradition and Innovation**	**Pesantren's Efforts to Survive Amidst Modernization**
			elements in education.	
(Marsum & Syahroni, 2020)	Modern pesantren apply technology to support the education and management of santri efficiently.	Modernization offers opportunities to improve the quality of education, despite challenges to traditional values.	Pesantren utilizes useful technology while maintaining existing traditional teaching methods.	Use relevant technology applications and smartphone restrictions to keep santri focused on education.
(Mubarok et al., 2023)	Educating santri with religious and moral knowledge, and integrating technology in learning.	Challenges in digitalization; opportunities to expand access and learning methods.	Combining traditional curriculum with modern technology for learning effectiveness.	Developing e-pesantren applications for better learning management.
(Muhsin et al., 2021)	Pesantren educates santri with religious values and general knowledge, remaining relevant in society.	Modernization brings challenges of adaptation and opportunities to improve the quality of education through technology.	Pesantren combines tradition with modern management to achieve practical educational goals.	Pesantren improves teacher leadership competency and implements leadership training to face digital challenges.
(Muzaki et al., 2021)	Pesantren integrates religious and general knowledge, forming a generation ready to socialize.	Challenges include materialism, while opportunities lie in technology and curriculum development.	Pesantren maintains tradition while adopting modern science and technology.	Implement new curriculum, improve skills, and adapt to the times.
(Prasetyo & Bashori, 2021)	Pesantren focuses on character education and life skills.	Challenges from tradition, opportunities through interest-based education and technology	Pesantren integrates traditional values with modern curriculum and innovative practices.	Implement pesantren-based management and adapt the curriculum according to community needs.

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Author & Year	The Role of Pesantren in the Modern Era	Challenges and Opportunities of Pesantren Modernization	Balancing Tradition and Innovation	Pesantren's Efforts to Survive Amidst Modernization
(Rahman & Husin, 2022)	Become a source of character education, religious knowledge, and science.	Competition with state schools and technology; opportunities for educational innovation.	Combines religious and general curriculum without eliminating pesantren traditions.	Curriculum transformation, strengthening infrastructure, and developing life skills.
(Rahmat & Rudi, 2023)	Pesantren, as an educational institution, plays a role in forming morals and developing knowledge.	Challenges of management and cadre formation; opportunities through cooperation and adaptation of digital technology.	Pesantren maintains traditional values while adapting modern curriculum and teaching methods.	Establish formal educational institutions and improve the quality of education and cooperation with the government.
(Shidiq & Mubin, 2022)	Pesantren functions as an educational institution that integrates Islamic values with technological developments.	Challenges include internal resistance, while opportunities lie in the application of technology in education.	Pesantren adopts modern methods while maintaining Islamic traditions and values.	Pesantren updated the curriculum and teaching methods to meet the needs of modern society.
(Wati et al., 2022)	Pesantren educates santri about faith and character in the context of modernization.	Challenges: competition in modern education. Opportunities: integration of technology and modern curriculum.	Pesantren combines classical teaching traditions with modern educational methods.	Pesantren adapts the curriculum and teaching methods to remain relevant to the needs of the times.
(Winata et al., 2022)	Become an educational institution that integrates religious values and general knowledge.	Globalization demands adaptation, offering opportunities to increase the relevance of Islamic boarding school education.	Integrates classical curriculum with general education and modern skills.	Implement social activities, cooperation with community organizations, and skills education programs.

Pesantren's Role in Providing Religious Understanding and Character

The analysis revealed that pesantren is a traditional Islamic educational institution that plays a significant role in fostering religious understanding and shaping the character of santri (Basori et al., 2023). Chotimah et al. and Jaenullah et al. in their descriptions also revealed that through pesantren teaching, santri can learn religious sciences such as tafsir, hadith, fiqh, tawhid, and tasawwuf, guided by Kiai as a scientific authority (Chotimah et al., 2023) and (Jaenullah et al., 2022).

According to Rahman and Husin, pesantren function as centers of religious education and as places of character building through dormitory life that instills values such as simplicity, responsibility, independence, and discipline (Rahman & Husin, 2022). In addition, the tradition formed in pesantren - integrating formal teaching with social, spiritual, and moral life- can create an environment that supports the internalization of religious values in daily life (Bakri & Mangkachi, 2021) and (Jaenullah et al., 2022). This process produces individuals who have a deep understanding of religion and can also become agents of change in society.

Kholifah explained that pesantren preserve social and cultural values by integrating local traditions into education (Kholifah, 2022). This approach encourages tolerance, togetherness, and respect for each other, making pesantren the guardians of the nation's culture (Abidin, 2020) and (Harmathilda et al., 2024). Pesantren also equips students (*santri*) with an understanding of normative Islam and in-depth philosophical and spiritual studies. Abidin added that Kiai teaches mastery of classical religious texts through memorization and discussion, creating an understanding relevant to modern life. Thus, pesantren remains relevant in forming a young generation with character, integrity, and civilization according to the needs of the times (Abidin, 2020).

Challenges and Opportunities of Modernization in the Development of Education in Pesantren

Modernization of pesantren is a response to changing times that demand updates in various aspects (Aji & Setyarini, 2020), (Basori et al., 2023), and (Yanto et al., 2023). In their research, Shidiq and Mubin revealed that pesantren now integrates the traditional religious curriculum with general education such as science, technology, and foreign languages to prepare santri to face global challenges. This step aims to make Santri proficient in religious knowledge and have relevant skills for work and modern society (Shidiq & Mubin, 2022).

Research by Mubarok et al. and Muhsin et al. revealed that information technology began to be applied to pesantren institutions, such as e-learning platforms and digital applications for learning and education management. These technologies expand the santir's access to classical and contemporary Islamic literature, support the evaluation process, and improve the operational efficiency of pesantren. Through this approach, pesantren maintaines their traditional roots while developing the quality of education by the demands of the times (Mubarok et al., 2023) and (Muhsin et al., 2021).

According to (Kawakip, 2020) and (Marsum & Syahroni, 2020), modernization presents challenges in maintaining the traditional values of pesantren. Changes in managerial systems and a focus on technology can reduce Kiai's role as the center of scientific and spiritual authority, which has been the core of pesantren education. Modern lifestyles can also potentially erode the simple and independent life that characterizes pesantren (Abidin, 2020).

In addition, according to (Badi'ah et al., 2021) and (Muhsin et al., 2021) open access to information through technology can affect the discipline and moral values of santri. It is feared that hasty modernization will threaten the harmony between religious traditions and the progress of the times. Even so, according to (Wati et al., 2022) modernization remains an excellent opportunity to improve the quality of education if done wisely. Pesantren must be ables to accommodate the needs of the times without sacrificing the traditional heritage that has become its identity as an influential Islamic educational institution in Indonesia.

Balancing Tradition and Innovation

The analysis shows that pesantren in Indonesia faces challenges in balancing tradition with the demands of modernization in the era of globalization. Pesantren teaches the Book (*Kitab Kuning*), character education, and simple living at a traditional value-based Islamic education center. However, the demands of 21st-century skills force pesantren to adapts to remain relevant (Abidin, 2020), (Rahman & Husin, 2022), and (Shidiq & Mubin, 2022). Pesantren managers are concerned that careless modernization could erode their identity as a distinctive Islamic educational institution. Therefore, maintaining tradition as the foundation for forming pious, independent, and noble santri characters is very important.

However, once again, modernization is considered an opportunity to integrate tradition with innovation. The analysis revealed that some pesantren

in Indonesia have successfully harmonized traditional values with modern approaches such as teaching science, technology, foreign languages, and vocational skills (Abidin, 2020), (Marsum & Syahroni, 2020), (Mubarok et al., 2023), (Prasetyo et al., 2020), (Rahman & Husin, 2022), and (Yanto et al., 2023).

These pesantren shows that innovation can enrich education without compromising core values. However, challenges remain, especially in managing the pressures of change in management, infrastructure, and adoption of digital technology. Some pesantren focus on technical and managerial innovations while maintaining their religious core. Through a wise approach, pesantren can remains relevant in the modern era without losing their identity as Islamic educational institutions firmly rooted in tradition.

Pesantren's Efforts to Survive Amidst Modernization

Based on the analysis results, it is revealed that pesantren in Indonesia face significant challenges in surviving amid modernization without losing the essence of their traditions. To remain relevant, pesantren need to integrate innovation and tradition preservation through curriculum adaptation that includes general knowledge, practical skills, and in-depth religious teaching so that Santri can have religious competence as well as readiness to face the modern world (Aji & Setyarini, 2020), (Fatmawati & Rifa'i, 2021), and (Muzaki et al., 2021). Accoring to Abidin, Badi'ah et al., and Basori et al., the wise use of technology, such as e-learning and digital data management, is an important strategy to improve the quality of education without ignoring religious values. Technology should be chosen more carefully so that it does not conflict with the ethics of pesantren and still supports effective and efficient learning (Abidin, 2020), (Badi'ah et al., 2021), and (Basori et al., 2023).

According to Bakri and Mangkachi, Ghofur, and Muzaki et al., their descriptions reveal that the role of local communities and pesantren caregivers is also vital in the modernization process of pesantren. Involving the community can help create balanced and widely accepted innovations without damaging traditions (Bakri & Mangkachi, 2021), (Ghofur, 2020), and (Muzaki et al., 2021). Dialogue between the community, santri, and teachers allows for organic and harmonious change. Pesantren caregivers, especially Kiai, have a great responsibility to guide modernization while maintaining the spiritual identity of the pesantren (Jaenullah et al., 2022). Through a visionary approach, they can inspire santri and teachers to see modernization as an opportunity, not a threat.

Well-managed modernization can strengthen pesantren traditions, making them more relevant in the modern world without losing integrity.

Conclution

Pesantren has an important role in character education and understanding of Islam in Indonesia while facing the challenges of modernization. Adaptation efforts are made through curriculum integration that combines general knowledge and practical skills without compromising the essence of religious teaching. Pesantren must balance tradition and innovation by utilizing technology wisely and involving the community. Key strategies include relevant curriculum, appropriate technology, and inspirational leadership of pesantren caregivers. This research confirms the importance of pesantren maintaining a traditional identity while being open to innovation to improve the quality and relevance of education in the modern era.

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