

Integrating technological innovation with Islamic leadership in hospital design: the role of visionary architectural consultants

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Abstract

Technological advancements play a pivotal role in transforming hospital facilities, enhancing healthcare delivery and operational efficiency. However, the integration of these technologies must align with ethical principles, especially within the context of Islamic leadership values. This study explores how visionary architectural consultants can balance innovative technologies with Islamic principles of justice, integrity, and social welfare in hospital project transformation. A qualitative approach, including literature review, case studies, and interviews with experts, was used to analyze successful hospital projects integrating advanced technologies like HMIS, telemedicine, and sustainable design. Findings reveal that visionary consultants are essential in harmonizing technological advancements with Islamic values, creating healthcare environments that are both ethically grounded and technologically efficient. The study contributes to the growing body of knowledge by highlighting the role of ethical leadership in shaping hospital innovations and offers a holistic framework for future healthcare facility development.

Keywords: technological innovation; Islamic leadership; hospital transformation; architectural consultancy; healthcare ethics.

Introduction

Technological advancement is a primary driver in the transformation of numerous sectors, including the healthcare industry, particularly in the development of hospital facilities. Innovations in technology contribute significantly to enhancing healthcare delivery, improving operational efficiency, and promoting patient safety. For instance, the implementation of Hospital Management Information Systems (HMIS) has revolutionized healthcare management by streamlining data processing and decision-making processes (Putra & Hendrawan, 2024; Agustina et al., 2024). However, such technological integration requires a well-structured system architecture that accommodates the various stakeholders involved, including doctors, nurses, patients, and

administrative staff (Yuliati et. al., 2023). To address these complexities, hospitals must adopt holistic approaches that consider the interplay between technology, management, and design (Sukmawati et. al., 2024).

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In parallel, Islamic leadership values are increasingly being recognized as robust foundations guiding decisions and actions within various business and management contexts, including healthcare (Yusufa et al., 2023). The fusion of technological progress and Islamic leadership principles is critical in the development of hospital projects. Islamic values offer a framework for ethical decision-making, ensuring that technological innovations are applied not merely for efficiency but to uphold justice, integrity, and social welfare (Zaim et al., 2023). This combination promises to create healthcare environments that are both technologically advanced and ethically grounded.

Despite the evident benefits of technological innovations in healthcare, a gap remains in understanding how these advancements can be effectively aligned with ethical principles, especially within the context of Islamic leadership. The challenge lies in integrating technology in ways that do not merely prioritize efficiency or profitability but also uphold ethical standards of justice and social responsibility. For instance, although systems like HMIS improve efficiency, their implementation may inadvertently marginalize certain stakeholders, such as economically disadvantaged patients (Sukmawati et. al., 2024). This raises the question of how hospital projects can balance technological advancement with equitable access and ethical responsibility.

The general solution proposed in this study is the involvement of visionary architectural consultants who possess both technological acumen and an understanding of Islamic leadership principles. These consultants are uniquely positioned to harmonize technological innovations with Islamic ethical values. By employing comprehensive frameworks that include both modern technological tools and Islamic leadership ethics, visionary consultants can guide hospital projects towards achieving both technical and moral excellence. This approach ensures that technology serves the broader societal good rather than merely fulfilling operational objectives (Chasanah & Kiswati, 2018).

Visionary architectural consultants play a critical role in hospital project transformation by integrating technology, design, and leadership principles into a cohesive framework. Recent studies emphasize the importance of such professionals in ensuring that technology adoption in hospitals aligns with ethical and cultural values, particularly within Islamic contexts. The use of structured frameworks like TOGAF ADM helps consultants develop integrated systems that meet the needs of diverse hospital stakeholders while ensuring operational efficiency (Yuliati et al., 2023). Moreover, therapeutic architecture, which manipulates architectural components to create healing environments, has gained recognition as a vital approach to hospital design (Mustika & Nuffida, 2017; Aziz, 2022). This method, which includes natural lighting and green spaces, enhances patients' mental and physical well-being, aligning with Islamic principles of promoting health and well-being.

Furthermore, visionary consultants are tasked with incorporating sustainable design principles into hospital projects. The green hospital concept, which focuses on reducing environmental impacts and improving air quality, aligns with Islamic teachings on environmental stewardship (Aziz, 2022; Sigalingging et al., 2020). By integrating eco-friendly systems such as solar panels and recyclable building materials, consultants can ensure that hospital facilities are both sustainable and responsive to the broader environmental concerns highlighted in Islamic ethics. This holistic approach to hospital design underscores the consultants' role in balancing technological innovation with Islamic values.

In addition to sustainability, the integration of information technology in hospital design is increasingly vital. Technologies such as online patient registration and telemedicine systems have demonstrated their ability to enhance operational efficiency and improve patient outcomes. Visionary consultants must ensure that these technologies are flexible, scalable, and able to respond to emergency situations like pandemics, thus promoting justice and accessibility in healthcare delivery (Adoe & Muvid, 2023). This requires close collaboration with healthcare providers, engineers, and IT experts to develop adaptive hospital infrastructures that are equipped to handle future crises (Iqbal et al., 2021).

Despite the extensive body of literature on hospital technology and architectural consultancy, several research gaps persist, particularly in the integration of Islamic leadership principles with

modern technological innovations. While much of the literature focuses on the technical and managerial aspects of hospital design, there is limited research on how Islamic ethical values can be systematically incorporated into the decision-making processes involved in hospital projects (Zaim et al., 2023). Existing studies on hospital technology, such as those involving HMIS, primarily address operational efficiency without fully exploring how these technologies can be aligned with principles of justice, equity, and social welfare, which are central to Islamic leadership (Putra & Hendrawan, 2024; Agustina, 2024).

Furthermore, while research on sustainable hospital design is growing, there remains a lack of comprehensive studies that integrate Islamic teachings on environmental stewardship with modern architectural practices. The concept of green hospitals has been explored in terms of reducing environmental impact, but the specific role of Islamic values in guiding these sustainability efforts is under-researched (Aziz, 2022; Sigalingging et al., 2020). This highlights the need for more studies that focus on creating hospital environments that are not only technologically advanced and sustainable but also ethically aligned with Islamic leadership principles.

Lastly, the literature on therapeutic architecture emphasizes the importance of creating healing environments but falls short in addressing how these environments can be designed to reflect Islamic ethical values, such as compassion, justice, and the well-being of all stakeholders (Mustika & Nuffida, 2017). This study aims to fill these gaps by exploring how visionary architectural consultants can integrate technological innovations with Islamic leadership values to transform hospital projects in a way that promotes both technical and ethical excellence.

The objective of this study is to explore how technological innovations can be effectively integrated into hospital projects while aligning with Islamic leadership principles. Specifically, the research aims to investigate the role of visionary architectural consultants in guiding the transformation of hospital facilities through the application of innovative technologies and Islamic ethical values. The novelty of this study lies in its holistic approach, which merges two seemingly distinct fields –technology and Islamic leadership– into a cohesive framework for hospital project development. This study contributes to the growing body of knowledge by offering new

insights into how ethical leadership can inform technological innovation in the healthcare sector.

The scope of this study includes an analysis of hospital projects that have successfully integrated advanced technologies such as HMIS, sustainable design principles, and telemedicine, while upholding Islamic ethical values. Through a combination of literature review, case studies, and expert interviews, this research aims to provide a comprehensive understanding of how visionary architectural consultants can play a pivotal role in transforming hospital projects into environments that are both technologically advanced and ethically sound.

Literature review

Hospital technology innovation

Technological innovation within hospitals is a critical aspect that significantly impacts both the quality of healthcare services and operational efficiency. As information technology continues to evolve, hospitals face the challenge of integrating effective management information systems, such as the Hospital Management Information System (HMIS). HMIS functions as a tool for managing data and information necessary for both medical and administrative decision-making, which is essential in the complex context of healthcare services (Putra & Hendrawan, 2024; Agustina, 2024). The application of information technology in hospitals not only enhances operational efficiency but also contributes to improving the quality of services provided to patients (Sukmawati, 2024).

One of the main challenges in implementing technology in hospitals is the organizational complexity, involving various stakeholders, including patients, doctors, nurses, and administrative staff. Therefore, it is crucial to design an enterprise architecture that can accommodate the interactions between these stakeholders effectively (Yuliati et. al., 2023). By employing approaches such as TOGAF ADM, hospitals can develop architectures that support more efficient business and operational processes, facilitating innovation in medical services (Yuliati et. al., 2023). Moreover, with integrated information technology, hospitals can be more responsive to patient needs, thereby increasing patient satisfaction, which is a vital indicator of healthcare quality (Sekarini & Widhiyanti, 2023).

Technological innovation also includes the development of tools and systems that enhance patient safety. For instance, the development of the Electronic Pressure Injury Alarm (E_PIA) aims to improve pressure injury prevention behaviors in hospitals (Setiyadi et al., 2019). Such innovations not only focus on technology but also on changing behaviors and work practices among medical staff. Therefore, technological innovations must be accompanied by human resource training and development to ensure their effective implementation (Yusufa et. al., 2023). Employees who possess the ability to innovate and adapt to new technologies will be better equipped to deliver high-quality services to patients (Yusufa et. al., 2023).

Additionally, hospital marketing has also undergone a transformation with the advent of digital technology. In an increasingly competitive environment, hospitals must develop innovative marketing strategies to attract patients (Julianti et al., 2022). Digital marketing has become one of the most effective strategies. By leveraging digital platforms, hospitals can reach more patients and provide relevant information about the services they offer.

Moreover, the application of technology in hospital waste management has become a significant concern. For example, carbonization technology can be used to treat hospital waste, transforming it into more environmentally friendly and economically valuable products (Lukas et al., 2018). The adoption of such technologies not only helps hospitals comply with environmental regulations but also contributes to their operational sustainability. Thus, technological innovations in hospitals must cover various aspects, from medical services to waste management, to achieve the broader goal of improving healthcare quality.

In the context of HMIS development, it is essential to conduct thorough evaluations and careful planning to ensure that the system functions effectively and provides maximum benefits (Khasanah & Imani, 2022; Paramarta et. al., 2024). This evaluation includes a cost-benefit analysis of the system's implementation, as well as staff training to ensure that they can use the system effectively (Paramarta et. al., 2024). With a systematic approach, hospitals can optimize the use of information technology and improve overall operational efficiency. In conclusion, technological innovation in hospitals is a complex and multidimensional process. It requires

collaboration among various stakeholders, human resource development, and the implementation of appropriate technology to achieve better healthcare service delivery. By leveraging available information technology and innovations, hospitals can improve service quality, operational efficiency, and patient satisfaction, ultimately contributing to better public health outcomes.

Modern healthcare facility design is becoming increasingly complex, involving multiple stakeholders throughout the design and construction process (Reno et al., 2014). Recent studies explore the use of advanced decision-making tools to inform the renovation and redesign of hospitals and medical centers. One study proposed a framework for ranking and evaluating healthcare facilities using fuzzy TOPSIS and graphic heuristics, highlighting the importance of considering multiple criteria in the redesign process.

Additionally, research has identified the need for better communication and collaboration between clinical staff and architects in designing healthcare spaces (Reno et al., 2014). Clinical staff often struggle to effectively convey their needs to the architectural community, leading to discrepancies between the final design and user requirements. To address this issue, some studies emphasize the value of engaging diverse stakeholder groups, including external design experts, in “stimulating and creative” dialogues to promote the development of high-quality healthcare buildings. Specific guidelines for the design of intensive care units (ICUs) have also been proposed, considering the unique needs and challenges of these critical care spaces (Thompson et al., 2012).

Visionary hospital architectural consultants

Visionary hospital architectural consultants adopt a holistic approach, integrating various disciplines such as architecture, technology, management, and public health. This approach aims to create environments that are not only functional but also supportive of patient health and well-being, while considering ethical values and Islamic principles. Research indicates that the application of sound architectural principles can significantly improve the quality of healthcare services and create spaces conducive to healing (Yuliati et al., 2023; Mustika & Nuffida, 2017; Aziz, 2022).

In the context of hospital design, one approach that can be applied is the TOGAF ADM (The Open Group Architecture Framework Architecture Development Method). TOGAF ADM offers

a systematic approach that enables consultants to design integrated systems responsive to hospital needs (Yuliati et al., 2023). This approach includes analyzing the hospital's business, data, application, and technology architectures, ensuring that each component works synergistically. Furthermore, the concept of "therapeutic architecture" is a vital element that manipulates architectural components to create environments that support patients' mental and physical health, such as the use of natural lighting and green spaces (Mustika & Nuffida, 2017; Aziz, 2022; Maheswari & Susanti, 2023).

Visionary architectural consultants also consider the need for environmentally sustainable and eco-friendly environments. The implementation of ecological architecture principles and the green hospital concept has proven to reduce environmental impact while enhancing air quality and room comfort (Aziz, 2022; Sigalingging et al., 2020). These sustainability-focused designs align with the role of humans as stewards of the earth, as mandated by Islamic teachings, and are a key component of modern hospital architecture.

Moreover, the integration of information technology is increasingly crucial in supporting hospital operations. The use of online patient registration systems, for instance, has been shown to improve service efficiency and reduce patient waiting times, directly impacting user satisfaction (Adeo & Muvid, 2023). Visionary architectural consultants must integrate such technologies with hospital designs that are flexible and responsive to emergency situations, such as pandemics or disasters, requiring adaptive and rapidly deployable hospital structures (Iqbal et al., 2021).

The comprehensive approach adopted by visionary architectural consultants involves close collaboration with diverse stakeholder teams, including clinical staff, engineers, and other experts, to ensure that user and healthcare provider needs are met. For instance, in-depth needs assessments and facility evaluations are crucial steps in identifying areas for improvement (Capolongo et al., 2019; Dehe & Bamford, 2017; Thompson et al., 2012). Additionally, integrating the latest technological innovations, such as automation and smart building systems, can enhance the operational efficiency of hospitals (Dehe & Bamford, 2017).

Visionary architectural consultants also collaborate with Islamic scholars and community leaders to ensure that hospital designs align with Islamic leadership principles (Capolongo et al., 2019; Reno et al., 2014). This approach ensures that hospitals not only meet functional and regulatory standards but also reflect ethical and cultural values important to the community. Designs that support Islamic principles, such as *maslahah* (public welfare) and *adl* (justice), create spaces that align with the organization's vision and the needs of both patients and staff.

In conclusion, the approach of visionary hospital architectural consultants emphasizes the integration of various elements, including technology, ethics, and design, to create holistic healthcare facilities. Architectural consultants are not only responsible for designing functional buildings but also for ensuring that every design decision supports principles of health, well-being, and sustainability, aligned with Islamic values.

Research methods

This research adopts a qualitative approach with an emphasis on exploratory analysis to examine the integration of technological innovations, visionary architectural consultancy, and Islamic leadership principles in hospital projects. The primary data sources include interviews with visionary architectural consultants, hospital administrators, healthcare professionals, and other relevant stakeholders involved in hospital projects. In addition, the study incorporates secondary data from existing literature, including journal articles, government reports, and case studies on technological advancements and ethical leadership in healthcare facility management.

Data collection involved semi-structured interviews conducted with a carefully selected group of participants, including architectural consultants, hospital managers, and healthcare professionals with firsthand experience in hospital projects. The goal of these interviews was to explore the challenges and opportunities related to the integration of Hospital Management Information Systems (HMIS), sustainable technologies, and Islamic leadership principles. Participants were selected using purposive sampling, ensuring the inclusion of individuals with relevant expertise and practical involvement in hospital design and management. The interviews focused on themes such as

technological innovation, ethical decision-making, leadership rooted in Islamic principles, and patient-centered care.

In addition to interviews, this research also includes an in-depth analysis of hospital projects that have successfully integrated technological innovations and Islamic leadership values. The case studies were selected based on geographical diversity and the different stages of project implementation, ranging from planning and construction to operational phases. These case studies provide real-world examples of how hospital projects can align with principles of justice, sustainability, and accessibility while incorporating advanced technologies like HMIS, telemedicine, and AI-based diagnostic tools.

Document analysis was another important aspect of this research, reviewing relevant documents such as hospital reports, architectural plans, and government guidelines on healthcare facility construction. The study also examined key religious texts, including QS. al-Nisā' [4]:58 and QS. al-Anbiyā' [21]:80, alongside Islamic scholarly interpretations, to understand how Islamic principles shape decision-making in hospital project transformation. The aim of this analysis was to contextualize the integration of ethical and spiritual dimensions into technological and managerial advancements in healthcare.

Data from interviews, case studies, and document analysis were analyzed using thematic analysis, a method that allows for the identification of patterns and themes related to the research objectives. These themes included the role of technological innovations in enhancing hospital operations, the application of Islamic leadership in ethical decision-making, and the balance between technological efficiency and human-centered care. Through this process, the study highlights how hospital projects can be transformed by aligning technological advancements with Islamic ethical principles to create sustainable and equitable healthcare environments.

Results and discussion

The integration of visionary architectural consultancy, technological innovation, and Islamic leadership offers a comprehensive framework for transforming hospital projects, aligning technological advancements with ethical principles. This

section examines the role of technological innovations, such as Hospital Management Information Systems (HMIS), and their potential to revolutionize hospital operations, while emphasizing the importance of ensuring justice, accessibility, and environmental sustainability. Additionally, the discussion highlights how Islamic leadership principles, including justice, transparency, and social responsibility, guide decision-making processes to ensure equitable and ethical outcomes. By balancing technological efficiency with human-centered care and empowering local communities, this approach creates sustainable healthcare environments that enhance patient well-being while upholding Islamic values.

Technology as a key driver in hospital project transformation

The transformation of modern hospitals is intrinsically linked to the rapid advancement of technology, which affects nearly all aspects of healthcare. The implementation of Hospital Management Information Systems (HMIS) represents a significant technological innovation that enhances operational efficiency and the quality of healthcare services. HMIS facilitates more effective patient data management, supports clinical decision-making, and accelerates administrative processes that often impede healthcare delivery (Putra & Hendrawan, 2024; Agustina, 2024).

However, implementing technology cannot be done arbitrarily. Visionary architectural consultants bear the responsibility of ensuring that the technologies adopted align with the specific needs of the hospital and reflect the values of justice, integrity, and social responsibility as emphasized in Islamic teachings. Justice, as highlighted in QS. al-Nisā' [4]:58, must serve as the foundation of every decision involving technology. Technology should not simply function as a tool to boost economic gains or follow global trends; rather, it should optimally benefit all stakeholders, including patients, medical staff, and the surrounding community (Zaim et al., 2023).

Health information technologies such as HMIS support more efficient hospital management by integrating clinical, managerial, and financial data into a unified system. However, for these technologies to be successfully implemented, visionary consultants must consider the hospital's infrastructure readiness, work culture, and human resources. As Yusufa et. al. (2023) asserts, adequate training for hospital staff is crucial to ensuring that technology is

effectively utilized. Without proper training, even the most advanced technology will fail to operate at its full potential.

In addition to HMIS, technological innovations must also include environmentally sustainable systems aligned with the principles of sustainability. Visionary architectural consultants are expected to integrate eco-friendly hospital designs that leverage energy-saving technologies. Examples include the use of solar panels, recyclable building materials, and energy-efficient ventilation systems, all of which reduce environmental impact while lowering operational costs (Marshal et al., 2021). Such sustainable hospital designs align with the Islamic responsibility of humans as stewards of the Earth, tasked with safeguarding the environment, as emphasized in QS. al-Anbiyā' [21]:80.

Furthermore, digital technologies like telemedicine have revolutionized the way hospitals interact with patients, especially in remote areas. Visionary architectural consultants must ensure that these technological facilities are made widely available, providing equal access to all patients, regardless of their economic or geographic status. In the context of Islam, the principle of social justice must be upheld, and technology should not create disparities in healthcare access. Telemedicine, a pivotal innovation, allows patients to consult with doctors remotely, reducing the need for in-person visits and minimizing the risk of disease transmission, especially during pandemics. However, this technology must be supported by adequate infrastructure, such as reliable internet networks and secure communication systems.

Advanced diagnostic technologies also play a crucial role in enhancing the accuracy and speed of healthcare delivery. Artificial intelligence (AI)-based diagnostic tools are now being used to detect diseases at an early stage, such as cancer or heart disease, enabling quicker interventions and better patient outcomes (Sukmawati, 2024). However, visionary architectural consultants must ensure that such technologies not only expedite diagnostic processes but also address patients' emotional needs. Highly advanced technologies can sometimes create a barrier between doctors and patients, potentially reducing the humane interaction that is essential in the healing process.

Islamic leadership as an ethical guide in hospital project transformation

Beyond technology, the role of Islamic leadership is crucial in guiding hospital projects. Leadership grounded in Islamic moral and ethical values will not only ensure that the project runs smoothly but also that every decision is based on principles of justice, integrity, and social responsibility. QS. al-Nisā' [4]:58 offers a clear directive on the importance of delivering trust to those entitled and upholding justice in every aspect of life, including project management in hospitals.

Visionary architectural consultants who apply Islamic leadership must view hospital projects as more than just physical construction. They must recognize that each decision –whether related to design, technology selection, or resource management– has broad social impacts and affects many stakeholders. Islamic leadership teaches that justice and the well-being of society should be the highest priorities, rather than efficiency or financial gain.

The principle of justice outlined in QS. al-Nisā' [4]:58 should be manifested at every stage of the project, from planning to implementation. Visionary architectural consultants must ensure that every decision is based on a fair balance of interests between the hospital, medical staff, patients, and the wider community. For example, when selecting technology, consultants must consider accessibility for all patients, including those who are economically disadvantaged. This highlights the importance of ensuring that the innovations adopted benefit not just a small segment of society but provide broad-based benefits to everyone involved.

QS. al-Baqarah [2]:42 emphasizes the importance of transparency and openness in communication, which is highly relevant in the context of hospital projects involving multiple stakeholders. Visionary architectural consultants should act as mediators, maintaining transparency in communication between hospital management, medical staff, and the community. This openness fosters trust among stakeholders and prevents conflicts or misunderstandings that could hinder the project's progress. Moreover, transparency in communication allows stakeholders to participate in more inclusive and equitable decision-making processes.

In exercising Islamic leadership, visionary consultants must also embody exemplary behavior in their conduct. Values such as

honesty, integrity, and accountability should be reflected in every action they take. Leadership by example creates a healthier, more ethical work culture where medical staff and project workers feel valued and inspired to give their best. Thus, Islamic leadership not only serves as a normative guideline but also as a driving force that fosters the holistic transformation of the hospital.

Balancing technology and humanity in hospital design

One of the primary challenges in transforming hospital projects is achieving a balance between applying advanced technology and maintaining the humanistic aspect of healthcare services. While technology provides numerous benefits in terms of efficiency and speed, it must not overshadow the psychological and emotional needs of patients. Visionary architectural consultants must ensure that the technologies implemented in hospitals continue to support empathetic and warm human interactions.

Hospital design that promotes the mental and physical well-being of patients is a critical element that consultants must consider. The implementation of therapeutic architecture, such as the use of natural lighting, proper ventilation, and green spaces conducive to healing, can have a significant positive impact on patients' conditions (Mustika & Nuffida, 2017). These elements not only improve patients' physical comfort but also contribute to a more calming atmosphere, supporting mental recovery.

In Islam, attention to human well-being is integral to every action. Technology must be seen as a tool to support human welfare, not as a replacement for the crucial human interaction needed in healthcare. Visionary architectural consultants must create hospital environments that balance advanced technological use with compassionate human interactions. For instance, telemedicine can be utilized to provide remote medical consultations, but the personal relationship between doctor and patient should be preserved, particularly when making complex medical decisions.

QS. al-Anbiyā' [21]:80 teaches that technology, such as the armor created by Prophet David, should be used to protect and enhance human welfare. In the context of hospitals, technology should function as a tool that helps expedite patient recovery, provides comfort, and enhances safety. Visionary consultants must ensure that technology is implemented not only for operational

efficiency but also to improve the quality of life for patients and medical staff.

Moreover, the technology employed in hospitals must be accessible to all patients, regardless of their socioeconomic status. One of the primary challenges in adopting advanced technologies is the disparity in access between wealthy and impoverished patients. Therefore, visionary architectural consultants must ensure that the technologies adopted in hospitals provide equal benefits to all patients, without discrimination based on their economic status. The principle of justice in Islam teaches that every individual deserves equal treatment, and this must be reflected in every decision concerning technology selection.

Community empowerment and collaboration in hospital transformation

In addition to focusing on technology and design that supports patient well-being, visionary architectural consultants must also pay attention to the empowerment of the local community. Engaging the community in the planning and development process of hospital projects is a crucial step in ensuring that the project aligns with the community's needs and gains full support from the surrounding environment.

Community involvement in decision-making processes can be facilitated through surveys, public consultations, and workshops that engage stakeholders from various layers of society (Agrasadya et al., 2023). A successful engagement with the local community fosters a strong sense of ownership over the hospital project, which, in turn, enhances the project's sustainability. Moreover, by involving the community, hospitals can contribute to improving the quality of life for the local population through training programs and the creation of employment opportunities.

Community empowerment not only provides social benefits to the surrounding population but also contributes to the long-term sustainability of the hospital project. A community that feels invested in the project will be more committed to maintaining and supporting hospital operations, ultimately creating a more stable and harmonious environment. Additionally, a hospital project that involves the local community can strengthen relationships between the hospital and the society it serves, which is crucial in building strong social support.

Conclusion

Visionary architectural consultants play a pivotal role in guiding the transformation of hospital projects by integrating technological innovation and Islamic leadership values. The technologies implemented in hospitals must align with Islamic principles of justice, welfare, and social responsibility. Leadership based on openness, integrity, and moral accountability must underlie every decision made in the hospital project. Visionary consultants are not only responsible for ensuring the project's operational efficiency but also for ensuring that every decision provides widespread benefits to all stakeholders, including patients, medical staff, and the surrounding community.

This approach ensures that hospitals become more than just healthcare facilities. Hospitals can be spaces that support the physical, mental, and spiritual well-being of patients while contributing to community empowerment and social sustainability. The integration of technological innovation with Islamic leadership creates a new paradigm in the development of healthcare facilities, where technology is not only used to enhance efficiency but also to ensure that everyone has equal access to high-quality healthcare services.

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