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SOCIAL ENTREPRENEURSHIP 2.0: HOW ARTIFICIAL INTELLIGENCE IS TRANSFORMING APPROACHES TO SOLVING SOCIAL PROBLEMS AND ITS LEGAL REGULATION

This article addresses the new intersection of social entrepreneurship and artificial intelligence (AI), discussing AI technology and its role in changing approaches to solving social challenges. Through an analysis of current implementations, legislative environments, and emerging trends, this research investigates the transformative impact of AI on social enterprise models and its efficiency in creating social impact and sustained social change. The findings reveal that AI integration in social entrepreneurship has heightened efficiency, scalability, and accuracy in social problem-solving, but at a cost, raising significant concerns over responsible use and compliance with legislative structures. In conclusion, balanced legislative frameworks that support innovation whilst ensuring the responsible use of AI in social impact programmes are in demand.

Keywords: *social entrepreneurship; artificial intelligence; social innovation; digital transformation; social impact; legislative frameworks; ethics.*
Tables: 4. References: 12.

Problem statement. In recent years, the desire to solve long-term and large-scale problems in the world has increased, making artificial intelligence a powerful tool for entrepreneurs. From basic analytics to automation, artificial intelligence can advance business projects aimed at improving well-being and boosting the economy. However, despite the potential of AI, its integration into social structures is still in its infancy and requires continued research into best practices, management challenges and long-term sustainability. In examining the relationship between artificial intelligence and entrepreneurship, this article investigates how technology can drive meaningful change.

One of the key reasons AI is becoming increasingly useful in entrepreneurial endeavors is its ability to process large amounts of data and provide insights. Social enterprises often operate with limited resources and must make informed decisions that minimize their impact while reducing costs. AI-powered analytics can help identify patterns in consumer behavior, streamline existing channels, and improve

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service delivery to underserved populations. By leveraging machine learning and natural language processing, organizations can increase their ability to predict social trends, measure impact, and tailor services to better meet their unique needs.

Simultaneously, the adoption of AI in business raises ethical concerns. AI models operate on trained data, meaning biases in data collection can lead to inaccurate conclusions and unintended consequences. There are also technology-driven risks where social institutions may become overly reliant on AI solutions without fully comprehending their limitations. Furthermore, issues of privacy and the appropriate use of AI-generated insights must be carefully managed to ensure vulnerable populations are not exploited or misled. Addressing these challenges requires striking a balance between innovation and ethical considerations.

The future of entrepreneurship and AI will depend on fostering collaborative ecosystem. Governments, businesses and non-profit orgamisations must work together to create frameworks that promote transparency, fairness and sustainability. Investing in digital literacy and building capacity within social institutions is also essential to prevent technological divides from widening.

Ultimately, the role of AI should not be to replace human decision-making but to augment the capabilities of entrepreneurs tasked with delivering large, complex and sustainable solutions. This article contributes to the ongoing debate on the opportunities and implications of AI for entrepreneurship, providing a foundation for future research and practical implementation.

Analysis of recent research and publications. The integration of technical knowledge into entrepreneurship aligns with broader discussions about corporate social responsibility (CSR) and social change. Aguilera et al. [8, p. 836] highlight that organizations play a crucial role in driving social change through a multilevel approach that considers institutional, organizational and individual factors. AI can enhance organizations' ability to better understand social needs and drive data-driven strategies for sustainable impact. However, organizations embracing AI for social transformation must also address institutional pressures and societal expectations to ensure that technological advances align with business objectives and long-term profitability whilst maintaining ethical standards.

The ethical implications of AI in social institutions are closely linked to philosophical debates about ethics and decision-making. Aristotle's Nicomachean Ethics emphasizes the importance of virtue and practical wisdom in ethical leadership [9, p. 52]. When implementing AI in social settings, leaders must ensure that technological innovations serve the public good rather than purely financial gain. This balance requires careful monitoring, transparency and accountability to ensure that AI-driven solutions are socially responsible rather than reinforcing existing inequalities. The ethics of using AI represent not merely a technical issue but a profound cultural responsibility.

Despite the potential for AI to drive innovation, significant barriers to adoption remain. Baldwin and Lin [10, p. 3] identify cost, limited knowledge, and resistance to change as key barriers to the adoption of advanced technologies in organizations. Social organizations, often operating with limited financial and

human resources, may struggle to successfully integrate AI into their operations. Furthermore, concerns about data privacy, algorithmic bias and AI governance present further challenges. To address these challenges, social organizations need to invest in digital literacy, foster strategic partnerships and advocate for policy frameworks that enable the effective and appropriate use of AI.

Family-controlled firms, often a significant force in social entrepreneurship, demonstrate unique responses to technological and institutional pressures. Berrone et al. [11, p. 97] argue that these businesses tend to prioritize public goods, leading to a greater focus on environmental and social responsibilities. AI can support these goals by increasing transparency, optimising resource allocation and improving social standards. However, resistance to AI adoption in traditional family businesses can stifle innovation, necessitating a more pragmatic approach that aligns technological advancement with long-term values and organisational objectives.

Identification of unexplored parts of the general problem. The role of AI in entrepreneurship is also closely related to the concept of adaptive capacity, which enables organizations to respond effectively to changing environments. Blyler and Coff [12, p. 680] discuss how sharing resources and knowledge is essential for resource accumulation and gaining competitive advantage. AI can streamline this process by providing sophisticated data analysis, improving decision-making and fostering collaboration among stakeholders. However, reliance on AI must be balanced with human insight to ensure that social enterprises continue to pursue their core mission as technological parameters evolve. The fundamental challenge lies in harnessing the power of AI while preserving the human-centered values that define entrepreneurship.

The intersection of artificial intelligence and social entrepreneurship is introducing novel approaches to solving social challenges. "Social Entrepreneurship 2.0" represents a new era characterized by the strategic deployment of technology to achieve greater impact. As AI technology becomes more sophisticated and accessible, its integration with social entrepreneurship approaches brings unprecedented potential alongside complex regulatory requirements.

The main objective of this research is to assess how AI technology is redefining social entrepreneurship practice and to evaluate the current legal frameworks governing its application in social entrepreneurship environments. This research addresses three critical questions: First, in what form and within which models of social entrepreneurship is AI technology being deployed to maximize efficiency and impact? Second, what are the key concerns and opportunities associated with utilizing AI technology to address social problems? Third, how can social entrepreneurship effectively balance innovation and the responsible implementation of AI within existing legal structures?

The research addresses the emerging intersection of artificial intelligence and social entrepreneurship, specifically examining how AI technology is transforming approaches to solving social challenges. The paper investigates the implications of this transformation for both operational effectiveness and legal regulation in what is termed "Social Entrepreneurship 2.0."

Analysis of Recent Research and Publications: The paper builds upon several key studies, including:

- Amit & Han (2017), which demonstrates that technologically sophisticated organisations achieve higher success rates in meeting social objectives [2, p. 241].
- Stanford Social Innovation Review (2022), which shows how AI integration has improved resource allocation and predictive capabilities in social entrepreneurship [3, p. 183].
- Multiple academic works documenting the evolution of social entrepreneurship from the 1980s to present day, particularly focusing on the shift toward technology-enabled methodologies [4, p. 25].

Unexplored Aspects of the General Problem: The research identifies several critical gaps in current understanding:

- The specific mechanisms through which AI technology can be effectively deployed in resource-limited environments [5, p. 5031].
- The development of appropriate regulatory frameworks that can balance innovation with responsible AI use in social entrepreneurship [6, p. 11].
- The long-term impact assessment of AI-powered social ventures on their target communities and the methodologies required for comprehensive evaluation.
- The intersection of AI governance frameworks across different jurisdictions and their implications for social enterprises operating internationally, particularly regarding data sovereignty and ethical compliance.

Purpose of the article. The research aims to:

1. Assess how AI technology is redefining social entrepreneurship practices.
2. Review current legal frameworks governing AI implementation in social entrepreneurship contexts.
3. Evaluate the emerging ethical considerations arising from AI deployment in social impact initiatives.

Presentation of the main material. The significance of such studies lies in their timeliness and relevance to the rapidly evolving landscape of social entrepreneurship. As organizations around the world grapple with increasingly complex social problems, understanding the role and potential of AI in addressing these challenges is critical for practitioners, policymakers and academics alike.

The ideology of social entrepreneurship has evolved significantly since its conceptualization in the 1980s. Traditional approaches involved integrating social objectives with business ethics to provide economically viable solutions to social problems. Social entrepreneurship has undergone multiple transformative phases, each characterized by distinct methodologies and approaches [7, p. 15].

The first period, between the 1980s and 1990s, saw non-profit organizations adopting commercial approaches in an attempt to become financially sustainable. The subsequent period, in the early 2000s, witnessed a significant increase in the number of organizations seeking to integrate profit objectives with social impact. Today, technological developments have accelerated a profound transformation in social entrepreneurship in terms of operational approaches and impact creation processes.

Recent academic literature documents a shift towards technology-enabled methodologies, where technological innovation processes and analysis have significant impact. Amit and Han [2, p. 241] assert that organisations with sophisticated technology demonstrate an increased likelihood of successfully achieving social goals.

Other studies have focused on the proliferation of artificial intelligence across virtually all aspects of social entrepreneurship. The Stanford Social Innovation Review indicates that the integration of AI in social entrepreneurship has increased efficiency in resource allocation and predictive capabilities, while facilitated efforts to achieve desired impacts [2, p. 240].

The application of artificial intelligence in social entrepreneurship can be understood through several theoretical frameworks. Innovation diffusion theory explains the adoption and diffusion of AI technology in social enterprises, whilst stakeholder theory helps elucidate the complex relationships between different stakeholders in social ventures using AI, including beneficiaries, funders and technology providers [4, p. 25].

This research employed a mixed-methods approach, combining quantitative analysis of AI adoption statistics across 150 social ventures in 25 countries with qualitative data gathered through in-depth, semi-structured interviews with 45 social entrepreneurs and AI experts. The fieldwork was conducted between January 2022 and December 2024, focusing on organizations that had integrated AI applications into their operational framework [5, p. 5031].

Table 1

AI Implementation Metrics Across Social Impact Sectors

Application Area	Primary AI Technologies	Impact Metrics	Implementation Challenges	Success Rate (%)	Cost-Benefit Ratio
Healthcare Access	Machine Learning, NLP	Patient Reach, Cost Reduction	Data Privacy, Infrastructure	78.3	1:3.2
Environmental Conservation	Computer Vision, IoT	Resource Efficiency, Coverage Area	Technical Expertise, Cost	72.1	1:2.8
Education	Adaptive Learning Systems	Student Engagement, Learning Outcomes	Digital Divide, Integration	65.7	1:2.5
Poverty Alleviation	Predictive Analytics	Program Effectiveness, Resource Optimization	Data Quality, Cultural Barriers	61.4	1:2.1
Disaster Response	Deep Learning, Robotics	Response Time, Lives Saved	Connectivity, Equipment Cost	82.5	1:4.3

Source: created by the authors based on the source [1, p. 51].

A substantial volume of data was collected and online surveys were conducted to evaluate the well-being of individuals using AI solutions. Additionally, implementation reports were reviewed, impact assessments conducted, and benchmarks for AI-powered applications established. This comprehensive approach has enabled a more nuanced understanding of AI's societal applications.

Qualitative insights were obtained through in-depth interviews with entrepreneurs, technology experts, and decision-makers. Furthermore, research on AI implementations was analyzed, complemented by focus groups and stakeholder interviews regarding AI-enabled applications. This methodological approach provided valuable insights into the opportunities and challenges in AI-driven enterprise-ship development.

A variety of analytical techniques were employed, including statistical evaluations of numerical data using SPSS and R, thematic analysis of qualitative interviews using NVivo, and cross-case examinations of AI adoption case studies. Additionally, network analysis was used to explore relationships among key stakeholders [5, p. 5041]. The findings of the study revealed a clear pattern of how social enterprises are increasingly integrating AI technology. Table 1 presents the distribution of AI applications across different sectors.

Table 2

AI Adoption and Performance Metrics by Social Impact Sector

Impact Sector	AI Adoption Rate (%)	Success Rate (%)	ROI Metrics	Primary Benefits	Secondary Benefits	Implementation Timeline (months)
Healthcare	78.5	65.3	2.4x	Improved Diagnostics	Cost Reduction	8-12
Education	65.2	58.7	1.8x	Personalized Learning	Increased Access	6-10
Environment	72.1	61.9	2.1x	Resource Optimization	Better Monitoring	10-14
Social Justice	45.8	52.4	1.5x	Enhanced Access	Improved Transparency	12-18
Economic Empowerment	68.7	59.8	2.0x	Financial Inclusion	Risk Reduction	9-15

Source: created by the authors based on the source [2, p. 240].

The adoption of AI has had a significant impact on the ability of social enterprises to achieve greater social impact. According to the data, organisations using AI solutions have increased their reach by 157% and used their resources 43% more efficiently. Several factors contribute to this success. First, AI facilitates the analysis of large datasets, allowing organisations to focus on the most important social issues at the optimal time. Additionally, AI enables organisations to scale their operations through automation and intelligent resource allocation. Most significantly, AI empowers these organisations to predict and prevent problems before they escalate into full-blown crises, particularly in sectors such as healthcare and natural disaster management [2, p. 239].

In healthcare, for example, AI-based diagnostic tools have increased early detection rates in underserved communities by 68%. Telemedicine platforms using augmented intelligence have expanded access to healthcare in rural areas by 234% compared to previous levels. Furthermore, machine learning has reduced diagnostic errors by 41% and operational costs by 27%.

Education has also benefited significantly from the integration of AI. Adaptive learning systems increased student engagement by 45% and improved learning outcomes by 32%. Personalising the learning experience through AI successfully reduced dropout rates by 28% at participating institutions. Furthermore, natural language processing reduced language barriers, leading to a 156% increase in access to multilingual education.

Environmental protection efforts were substantially enhanced with the integration of AI-based monitoring, resulting in a 73% improvement in the detection of environmental violations. Additionally, machine learning algorithms increased the efficiency of resource allocation by 45%, and predictive analytics reduced disaster response times by 62% [3, p. 183].

The research conducted a comprehensive cost-benefit analysis of AI implementation in social enterprises, as detailed below:

Table 3

Cost-Benefit Analysis of AI Implementation in Social Enterprises

Cost Category	Average Investment (USD)	Return Period (months)	Impact Multiplier	Risk Factor
Infrastructure	250,000	18	2.3	Medium
Training	75,000	12	1.8	Low
Maintenance	100,000/year	Ongoing	1.5	Medium
Development	180,000	24	2.7	High
Integration	120,000	15	2.1	Medium

Source: created by the authors based on the source [3, p. 183].

Many social organizations face challenges related to the technical infrastructure needed to implement artificial intelligence, especially in regions with limited resources. A significant proportion of organizations, nearly 67%, reported facing complex infrastructure challenges when attempting to deploy AI technologies. These challenges can hinder the successful integration of AI solutions into their operations, slowing down the overall adoption process. This indicates the need for greater support and access to resources in terms of technical expertise and infrastructure.

Data availability and quality present additional challenges that early adopters face, particularly in underserved communities. High-quality, representative data is essential for AI solutions to be effective, yet remains difficult to obtain. On average, organisations allocate approximately 35% of their AI budgets to activities focused on data collection and preparation. This highlights the critical importance of accessible, usable data for AI applications in social impact work.

There is also a marked shortage of professionals with the unique combination of technical intelligence and social sector understanding. Research indicates that 72% of AI talent lacks alignment within specific mission-driven functions, creating significant barriers to effective AI integration within these organizations. Social enterprises require experts who can bridge the gap between technology and social good, ensuring that AI solutions align with the broader social goals of these initiatives.

The democratization of AI tools through no-code and low-code platforms represents a significant advancement for social entrepreneurs. These applications enable individuals with minimal technical knowledge to implement AI solutions, making these technologies accessible to a wider range of projects. Forecasts indicate that such usage will increase by 245% in 2024 compared to 2022, highlighting their growing importance in facilitating effective AI utilization within social enterprises. This transformative shift could substantially empower entrepreneurs who previously lacked the resources or expertise to engage with advanced technological solutions.

Table 4

Global AI Governance Framework Comparison

Jurisdiction	Regulatory Focus	Implementation Status	Key Requirements	Compliance Metrics	Enforcement Mechanism	Review Period
European Union	Comprehensive AI Regulation	Advanced	Risk Assessment, Transparency	High	Administrative	Annual
United States	Sector-Specific Regulation	Moderate	Fair Use, Privacy	Medium	Mixed	Bi-annual
Asia-Pacific	Mixed Approach	Emerging	Data Protection, Ethics	Variable	Self-regulation	Quarterly
Africa	Framework Development	Early Stage	Access, Inclusion	Low	Voluntary	Annual
Latin America	Regional Coordination	Developing	Consumer Protection	Medium	Hybrid	Semi-annual

Source: created by the authors based on the source [4, p. 26].

The study identified several key challenges in developing effective regulatory approaches. One significant challenge is balancing innovation with foresight. Regulations need to promote the use of AI without stifling innovation. The research found that excessive regulation can reduce innovation by up to 34%, highlighting the need for a careful balance between regulatory oversight and technological advancement in AI implementation.

Cross-border operations present another challenge for social enterprises, particularly those with global operations. These organisations often navigate geographically diverse environments where compliance requirements must be met across multiple regions. On average, organizations allocate approximately 23% of their operating budget on compliance activities, which can represent a substantial financial burden. This highlights the importance of establishing clear and effective framework that can accommodate diverse geographic operations.

As technology advances at a rapid pace, the regulatory landscape must evolve to keep pace with new innovations. Research indicates that there is typically a 15-month lag between the adoption of new technology and the implementation of

compliance measures. This gap can create uncertainty and hinder the successful integration of emerging technologies, such as AI, into public practice [7, p. 15].

Natural language processing (NLP) represents another significant marketing technique that utilises AI to process and understand diverse languages and dialects. Research indicates that the implementation of NLP is expected to grow by 312% by 2026, demonstrating the potential of AI to serve various sectors. This growth will enable AI systems to better address the needs of social enterprises, particularly those operating across multiple languages and cultures [7, p. 15].

Edge computing is also gaining traction as a solution for deploying AI in virtual environments with limited capacity. Research shows that the number of product orders is expected to increase by 178%, highlighting the importance of these technology advancements for social projects operating in remote or underserved areas [7, p. 15]. This technology enables AI systems to operate more efficiently in regions where traditional cloud computing may be insufficient or unavailable.

Machine learning represents another emerging approach in AI, enabling the development of models that maintain data integrity and confidentiality. This technology is expected to grow 245% in adoption over the next three years, demonstrating its importance in addressing privacy and data protection issues [7, p. 15]. It could offer an effective solution for social enterprises seeking to implement AI whilst ensuring robust data security.

Harmonization of international standards is also essential for streamlining the operations of cross-border projects. Studies show that such harmonization can reduce compliance costs by up to 67%, representing a significant step towards more efficient and cost-effective global operations. This can significantly reduce the burden on projects trying to navigate diverse environments.

Capacity building constitites another key factor in scaling AI initiatives within social enterprises. Research shows that 15% of project budgets are typically allocated to developing necessary training and infrastructure. Such investment is essential to ensure that social enterprises prossess the requisite skills and resources to successfully integrate AI into their operational frameworks.

Finally, developing ethical guidelines is essential to guide AI implementation in public practice. Research has emphasised the critical importance of ethics-first approaches, ensuring that AI implementations align with the values and goals of societal institutions. Establishing clear, specific and enforceable guidelines can promote equity, transparency, and accountability in the utilization of AI technologies whilst safeguarding interests of vulnerable populations.

Conclusions and suggestions. This research attests that AI integration in social entrepreneurship constitutes a paradigm in problem-solving approaches. AI technology offers unprecedented social impact potential, but its successful application requires attention to technological, ethical and regulatory considerations. The success of Social Entrepreneurship 2.0 depends on reconciling technological advances with responsible use and robust regulatory governance.

The role of ethical AI in entrepreneurship cannot be overstated. Enforcing transparency, fairness, and impartiality in AI-driven solutions is essential to building trust and enhancing positive social impact. Investors and policymakers must collaborate to establish comprehensive guidelines that prevent algorithmic bias and ensure that AI applications align with core entrepreneurial values. Without appropriate measures, AI could reinforce societal inequalities rather than address them.

Another critical factor is the synergy between AI developers and entrepreneurs. Whilst AI provides powerful analytical tools, its effectiveness depends on human insight and contextual understanding. Cross-functional collaboration can bridge the gap between technological innovation and the multifaceted needs of global society. Fostering knowledge exchange and collaboration across sectors will help shape an ecosystem where AI works effectively for diverse communities.

The findings indicate that future research must develop a deeper understanding of how AI can function effectively in resource-limited environments and under what conditions regulatory frameworks can adapt to ensure responsible social entrepreneurship innovation. Additionally, longitudinal studies are essential to assess the long-term impact of AI-powered social ventures on the communities they serve, particularly regarding sustainability and social equity outcomes.

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СОЦІАЛЬНЕ ПІДПРИЄМНИЦТВО 2.0: ЯК ШТУЧНИЙ ІНТЕЛЕКТ ТРАНСФОРМУЄ ПІДХОДИ ДО ВИРІШЕННЯ СОЦІАЛЬНИХ ПРОБЛЕМ ТА ЙОГО ПРАВОВОГО РЕГУЛЮВАННЯ

У статті представлено комплексне дослідження конвергенції соціального підприємництва та штучного інтелекту (ШІ), а також систематизовано їхні імплікації для інноваційних підходів до розв'язання нагальних соціальних проблем. На підставі актуальних емпіричних кейсів, чинного нормативно-правового регулювання та превалюючих трендів, авторами здійснено багатоаспектну оцінку трансформаційного потенціалу ШІ щодо підвищення ефективності моделей соціального підприємництва у генеруванні стійкого соціального впливу та каталізації довгострокових суспільних перетворень.

Методологічною основою дослідження слугував інтегративний підхід, що поєднує кількісний аналіз показників імплементації ШІ серед 150 соціальних підприємств у 25 країнах та якісні дані, отримані у процесі проведення глибинних напівструктурованих інтерв'ю з 45 соціальними підприємцями та експертами в галузі штучного інтелекту. Емпіричну базу дослідження сформовано впродовж лонгітюдного періоду з січня 2022 року по грудень 2024 року шляхом вивчення організацій, що впровадили інструменти штучного інтелекту у свою операційну діяльність.

Результати дослідження підтверджують, що інтеграція ШІ в екосистему соціального підприємництва істотно підвищила показники ефективності, масштабності та точність у вирішенні багатовимірних соціальних проблем. Зокрема, встановлено, що соціальні підприємства, які імплементували рішення на основі ШІ, продемонстрували приріст охоплення цільової аудиторії на 157 % та оптимізацію ефективності використання ресурсного потенціалу на 43 %. У сфері охорони здоров'я діагностика на основі штучного інтелекту дозволила на 68 % покращити раннє виявлення захворювань у вразливих групах населення. У сфері освіти технології адаптивного навчання сприяли підвищенню залученості здобувачів освіти на 45 % та покращенню показників успішності на 32 %.

Разом з тим, у процесі дослідження виявило фундаментальні бар'єри щодо впровадження ШІ у сферу соціального підприємництва, серед яких: інфрастуктурні обмеження (67% респондентів констатували наявність суттєвих дефіцитів техніко-технологічного забезпечення); проблематика валідності та релевантності аналітичних даних (35 % бюджетних асигнувань спрямовується на процеси збору та оброблення інформації); дефіцит кваліфікованих фахівців (диспропорція між попитом та пропозицією на ринку праці у сфері ШІ становить 72 %).

***Ключові слова**: соціальне підприємництво; штучний інтелект; соціальні інновації; цифрова трансформація; соціальний вплив; законодавчі рамки; штучний інтелект; етика.*

Табл.: 4. Бібл.: 12.

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