

Chapter 9 - Human-AI Collaboration for Inclusive Growth and Sustainable Development

Nada Ahmed 1¹

¹ SBS Swiss Business School, RAK campus, UAE

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Abstract

AI is a transformative technology that, when paired with human intelligence, can serve as the foundation of inclusive economic prosperity and sustainable development, rather than just an automation tool. As such, human-AI collaboration is essential for designing responsible AI systems, maximizing resource efficiency, and guaranteeing access to AI-powered opportunities. AI-human synergy will improve innovation, better decision-making and a more sustainable and inclusive economy. We explore the role of AI in achieving the United Nations Sustainable Development Goals (SDGs), using case studies from smart cities, precision agriculture, green supply chains, AI-enabled financial inclusion and workforce augmentation. The conversation emphasizes the need for regulation, outlines ethical dilemmas and discusses the environmental consequences of AI systems. It also examines how AI could be deployed responsibly to meet global challenges, lessen inequalities and augment not replace humans workers. The chapter closes with policy recommendations and a road map by which AI can inform a transition to sustainable business and economic models, as well as to ensure that benefits of AI are equitably shared across industries and communities.

Keywords: *artificial intelligence, human resource, sustainability;*

9.1 Introduction

Artificial Intelligence (AI) is emerging as one of the most revolutionary technologies in the 21st century, with a profound impact on almost every industry and facet of human life. Generative AI is reshaping the economic landscape, driving innovations and improvements in productivity, unlocking new businesses and economic models.

AI offers a wide range of capabilities, from automation and predictive analytics to advanced decision-making and natural language processing, with implications for a spectrum of fields from healthcare and finance to transportation and education. But AI's implementation into societies and economies is not without challenges. Despite the great strides AI has made, the adoption of its tech raises fundamental uncertainties about employment, ethical factors, privacy matters, and the digital divide, forcing for a more organized framework to manage the balance between technological advancement and human well-being.

A COVID-19 article from MIT from July 2020 argued that shifts to homeworking could help to understand the future of globalization, and its implications for income inequality. AI-powered automation may take over in repeating tasks, but it opens doors for innovation, job evolution, and new sectors.

Workplace collaboration specifically between humans and AI is being recognised more and more as a way to optimize AI potential, ensuring that technology enhances rather than detracts from human capabilities.

The future of work will necessitate a collaboration between AI and human intellect, creating a framework in which AI enhances decision-making, streamlines monotony, and empowers humans to delve into strategic, innovative, and relational responsibilities.

Governments, enterprises and the academia are consistently pouring money into AI based research, and AI related development and policy frameworks to harness the best AI technology can deliver while minimizing risks. Numerous countries established AI strategies in order to safeguard inclusive economic growth and sustainable development. From AI-enabled governance and policy-making to environmental monitoring and resource utilization, the growing diversity of AI applications stresses both promise and pitfalls in its implementation.

AI can process vast amounts of data and deliver actionable insights, making it a highly effective tool for stimulating economic prosperity, enhancing public service efficiency, and addressing complex socio-economic challenges.

9.2 Heading Towards Inclusive Growth with Human-AI Collaboration

✓ Human-AI collaboration will be necessary to ensure that AI adoption leads to equitable economic growth.

✓ AI will not create a world where humans are irrelevant; it will enhance human strengths, drive productivity and create layers of opportunity.

✓ A well-managed AI ecosystem creates jobs in emerging technologies, replicative jobs, it also drives economic inclusivity by integrating AI into various sectors of the workforce.

The only other differentiators while collaborating with humans are:

1. **Increased Efficiency:** By working together with humans, AI can offer redundant work to automate and share the load, enabling more time-efficient and high-level analytical work.

2. **Job Creation and Skill Development:** Automation will eliminate some tasks, but it is also leading to an increase in hiring in many areas like AI professionals, data science, AI ethics, and so on.

3. This means that governments and businesses **must invest in upskilling and reskilling** programs to equip workers for the new job market.

4. **Enhanced Decision Making:** AI-powered analytics provide insights that enhance decision making process in business, healthcare, governance, and finance industry.

5. **Innovation & market expansion:** From AI-led entrepreneurship, new industries such as AI-assisted healthcare, fintech and smart manufacturing will begin to grow, opening up more economic opportunities for companies and people.

To leverage AI for inclusive growth, all stakeholders must prioritize AI literacy, workforce development, and ethical deployment.

Governments should enact and enforce policies that establish a framework for the responsible use of AI, with the end goal being to ensure that AI remains an asset that empowers, not one that excludes.

9.3 How can AI address sustainability challenges and support the UN Sustainable Development Goals (SDGs)?

From predicting tomorrow to reallocating resources or analyzing massive datasets, the power of AI has proven its worth across industries ranging from energy to disaster management.

AI can be utilized for sustainability due to the following reasons:

Artificial Intelligence (AI), when harnessed responsibly in collaboration with human expertise, has the potential to revolutionize industries, making them more sustainable, efficient, and equitable. By integrating AI into various sectors, we can drive transformative change while ensuring environmental stewardship.

A. Energy: Advancing Renewable Solutions

AI-driven smart grids and predictive analytics are optimizing renewable energy use by improving energy storage, forecasting supply and demand, and reducing transmission losses. Human intervention ensures ethical decision-making in energy distribution and policies, fostering global access to clean power.

B. Climate Action: Strengthening Environmental Monitoring

AI-powered climate modeling, satellite imaging, and carbon tracking systems allow for real-time monitoring of deforestation, biodiversity loss, and pollution. Scientists, policymakers, and environmentalists use these insights to develop proactive climate strategies, ensuring that data-driven decisions align with long-term sustainability goals.

C. Agriculture and Food Security: Sustainable Farming and Supply Chains

AI is revolutionizing precision agriculture, using real-time weather predictions, soil analysis, and automated irrigation systems to maximize yield with minimal resource use. Additionally, AI-driven supply chain optimization reduces food waste, improves distribution networks, and ensures equitable access to food. Farmers and agribusinesses, in collaboration with AI, can work towards a climate-resilient agricultural system.

D. Urban Development: Creating Smarter, Greener Cities

AI-powered solutions in urban planning enhance traffic flow optimization, waste management automation, and energy-efficient infrastructure. By working alongside urban developers and governments, AI facilitates the creation of inclusive and climate-friendly smart cities where sustainability and quality of life go hand in hand.

E. Manufacturing: Driving the Circular Economy

AI is accelerating the circular economy by reducing industrial waste, optimizing resource utilization, and supporting smart manufacturing processes. Predictive maintenance, AI-driven material recycling, and supply chain transparency contribute to reducing carbon footprints while improving operational efficiency.

F. Healthcare: Sustainable Health Solutions

AI enhances medical diagnostics, drug discovery, and remote healthcare solutions, reducing the need for physical infrastructure and extensive energy use. It also plays a crucial role in pandemic response planning and disease prevention, ensuring that healthcare is both accessible and environmentally sustainable.

G. Transportation and Mobility: Greener Travel

AI-powered autonomous vehicles, route optimization, and public transport improvements reduce fuel consumption and emissions. Human-AI collaboration in designing electric vehicle (EV) charging networks, smart logistics, and eco-friendly transportation systems is paving the way for a low-carbon mobility future.

H. Water Conservation and Ocean Sustainability

AI-driven water management systems help monitor leaks, reduce wastage, and ensure equitable distribution of clean water. In marine ecosystems, AI-powered ocean monitoring drones track pollution, illegal fishing, and coral reef health, supporting conservationists in their efforts to protect global water resources.

I. Financial Services: Sustainable Investments and Green Financing

AI-driven ESG (Environmental, Social, and Governance) analytics empower investors to make responsible decisions, funding sustainable businesses and green initiatives.

AI also supports carbon footprint tracking in banking, ensuring financial growth aligns with environmental responsibility.

J. Education and Workforce Development: Upskilling for Sustainability

AI-driven personalized learning platforms provide access to sustainability education, equipping individuals with the skills needed for a green economy. By fostering AI-human partnerships in training and workforce development, industries can transition towards sustainable business models that benefit both people and the planet.

9.4 Context: Local-Level (UAE) and Global-Level AI Adoption

The UAE is a leading global player when it comes to AI adoption, as can be seen by the keen efforts to include AI into much of the economy and governance. The UAE AI Strategy 2031 — the framework for AI use in the UAE — aims to position the UAE as a leader in AI-powered progression in areas such as healthcare, energy, education and smart cities.

Some focus areas are:

- **Smart Dubai Initiative:** AI will boost public service such as AI will help to automate government services,
- AI-based urban planning, thus augmenting the effectiveness and citizen engagement.
- AI for optimizing Energy in a blended approach with simulation model — DEWA | Dubai Electricity and Water Authority.
- **AI in Healthcare:** Using AI for predictive diagnostics and telemedicine, the Ministry of Health and Prevention (MOHAP) works to better connect healthcare access and patient needs.
- AI adoption is being accelerated around the world, across industries. Many countries including America, China and Germany have AI development framework which nurtures new innovations, while keeping in mind the legal and ethical concerns. Multiple cases from around the world exemplify how AI contributes to better governance, increased financial inclusion, and deeper industrial automation.

For example:

- **AI-driven Tesla Autopilot Transportation:** AI-powered self-driving automobiles are revolutionizing travel, making it safer while minimizing our carbon footprint
- **IBM Watson for Health:** Providing AI-driven diagnostic and personalized treatment recommendations, IBM improves patient experience and global healthcare provisioning. The Solution: Integrated, Ethical, and Inclusive AI

A human-centered approach to AI deployment is needed to ensure that AI contributes to inclusion and sustainable development. This requires the collaboration of policymakers, industry, and research institutions to develop ethical standards, regulatory policies, and the governance of AI.

The actionable steps to influence responsible AI adoption are:

1. **Establishing AI Ethics Guidelines:** The principles of AI systems must be transparency, fairness, and accountability.
2. **Regulating the Impact of AI on Employment:** Policies need to protect workers from displacement by AI,”
3. **Increasing AI Literacy and Education:** AI aspects should be made part of the national curricula to prepare future generations for the AI economy.

9.4.1 Research Problem

The AI revolution around the world comes with a paradox:

While AI can power inclusive economic growth, uncontrolled and unregulated implementation can deepen disparities for the following reasons:

1. One of the factors to be addressed is that if AI and the automation of intelligent labor will threaten you or people working in the industry as a whole
2. On the other hand, this also creates an AI-driven skills gap in many industries where employees are unable to transition into the new digital economy and the skills they require, a scenario that will potentially cause job losses and economic disparity
3. Automation's adverse effects are disproportionately felt by low-skilled workers, exacerbating the socio-economic divide and necessitating policy interventions and workforce reskilling initiatives to create an inclusive AI-enabled future.
4. Another aspect of AI deployment is that it doesn't just focus on changing the workforce. Ethical concerns—such as data privacy, algorithmic bias, transparency, and accountability—remain major challenges. These issues have yet to be fully resolved.
5. Although AI has made extraordinary results in areas like medical diagnostics, accounting, and the administration of governments, the use of AI in key areas of our lives without human oversight is likely to cause social biases and lead to discriminatory results.
6. Ensuring that AI systems are developed and used with consideration to these concerns necessitates appropriate legislation, cross-sector teamwork, and the incorporation of ethical AI values in the design and usage of AI systems.
7. Additionally, the environmental cost of AI represents a major area for inquiry. AI's acceleration can't come without energy considerations: both by building more energy-efficient AI systems, and as part of environmental efforts that AI can contribute to. Research needs to be continuously directed towards finding ways for AI to make energy consumption more efficient and reduce wastage, potentially aiding in the fight against climate change.
8. In addition to these challenges, the role of AI in closing global development gaps is also a concern. While AI has the power to drive access to learning, health care and financial services for underserved communities, its rollout invariably favors advanced economies that have the needed resources.
9. There is an urgent business to tackle how AI can also become deployed and used in the emerging markets, so that innovation in AI does not further widen the digital and economic gaps between people in the Industrialized world and the Emerging Markets, but rather forms an equitable part of the digital economy.

Against the backdrop of these struggles, this research will examine how AI systems and business models can promote inclusive growth, reduce socio-economic inequality, and how to ensure AI-driven innovation does not undermine long-term sustainability goals. The research will further analyze the regulatory and governance frameworks needed to respond to AI's ethical dilemmas and its environmental consequences.

9.4.2 Research Objectives

This research aims to:

- Increase AI Role in Economic Expansion: Look into ways AI improves Productivity, Business Innovation and Job Pavement Across Industries The research will assess the impact of AI on sectors and evaluate the extent that AI-enabled advancements contribute towards a more economically inclusive society.
- It will also examine the potential of AI to augment human capabilities, enable hybrid work and redefine the nature of work itself.
- Discover AI's Synergy with United Nations Sustainable Development Goals (SDGs): Evaluate AI solutions mapping to SDGs, including poverty alleviation, education and health access improvement, and development of clean energy solutions.
- Navigate the Ethical and Regulatory Landscape: Confront the ethical implications of AI implementation, such as algorithmic biases, data privacy issues, and the need for governance structures that promote equality and transparency. The research will evaluate the state of current AI regulations and elicit recommendations on how to adopt AI in an ethical manner.
- Research Environmental Impact and Sustainability Value in AI: Identify how AI can be utilized to reduce environmental degradation, to optimize energy use, and help with climate change solutions. It will also specifically research the tools provided by artificial intelligence (AI) that can determine how businesses manage their resources moving forward, as well as their carbon footprint, their ability to maneuver and take risks while preserving resilience and sustainability.
- To examine the impact of AI on economies and societies, how people and AI can work together to create a future that seeks to be inclusive, sustainable, and ethically driven through technological advancement. This research will ultimately contribute to a roadmap for sustainable AI deployment that is informed by its economic, ethical, and environmental implications, ensuring that technological advancements are in line with human-centered values.

9.5 Literature Review: Review of Results and Gaps in Research

AI has been the focus of considerable academic interest on topics such as economic growth, the changing nature of work and sustainable development. The existing literature emphasizes the transformative potential of AI across sectors but also highlights major challenges related to implementation, ethics and inclusivity. In this section, we summarize the relevant literature on AI's impact on economic growth, its use in sustainability efforts, and the open gaps.

9.5.1 The Current State of Research on AI and Economic Growth

There has been a lot of studies on how AI adds to productivity, efficiency, and economic growth.

- AI is estimated to add \$15.7 trillion to the global economy by 2030, according to PwC (2023), mainly driven by automation, better decision making, and new AI based business models.
- AI has already made impact into sectors like financial services, manufacturing, and healthcare, where data-driven insights can help optimize operations and improve customer experiences.

□ But the studies also cautioned against the risks of adopting A.I., especially potential disruptions in the labor market.

□ As much as AI opens up career avenues like AI Specialists and Automation Engineers, it eliminates traditional jobs as well. According to World Economic Forum (2023), 35% of jobs worldwide will be displaced by AI-driven automation by 2025, yet AI will create new roles requiring advanced digital skills. This underscores the importance of reskilling programs to help ensure workers are relevant in AI-enhanced environments.

9.5.2 Artificial Intelligence for Sustainability and the UN Sustainable Development Goals (SDGs)

The role of AI in promoting UN SDGs has already been well documented, especially in domains like climate action, energy access and health. AI-enabled models are already helping optimize renewable energy grids, spot environmental hazards and improve food security through precision agriculture. While AI has shown potential in these areas, research has also indicated that areas such as the carbon footprint of AI; ethical governance of AI; and digital divides require further exploration.

9.5.3 Case Studies from the UAE

A. AI for Smart Sustainable Cities – Masdar City, Abu Dhabi

Collaboration between AI & Urban Planners

Masdar City, a global leader in sustainable urban development, integrates AI to enhance energy efficiency, water conservation, and mobility solutions. AI-powered building management systems regulate energy use, while autonomous eco-friendly transport solutions improve connectivity. AI-driven environmental analytics help policymakers make data-backed sustainability decisions.

Key Impact:

- 40% reduction in water consumption through AI-driven monitoring
- AI-powered smart grids optimize renewable energy consumption

B. AI-Powered Sustainable Agriculture – UAE's AgTech Innovations

Collaboration between AI & Farmers

The UAE, known for its arid climate, is pioneering AI-powered vertical farming and hydroponics to ensure food security. Companies like Pure Harvest Smart Farms and Badia Farms use AI-based climate control systems to optimize crop production, reducing water usage by up to 90% compared to traditional farming.

Key Impact:

- AI reduces water wastage while enhancing crop yields
- Supports UAE's food security goals and desert agriculture

C. AI & Financial Inclusion – UAE's FinTech Revolution

Collaboration between AI & Financial Institutions

AI-driven FinTech solutions in the UAE, such as Emirates NBD's AI-powered chatbots and AI-backed credit scoring systems, enable financial inclusion for small businesses and underserved populations. AI helps assess creditworthiness beyond traditional banking data, providing microloans and financial services to more people.

Key Impact:

- AI expands access to financial services for SMEs and entrepreneurs
- Promotes inclusive economic participation and sustainable growth

9.5.4 Global AI Success Stories

A. AI for Disaster Resilience – Japan's Early Warning Systems

Collaboration between AI & Disaster Response Teams

Japan's AI-powered earthquake prediction system, developed in partnership with tech companies and seismologists, analyzes real-time seismic data to provide early warnings, allowing communities to evacuate before disasters strike. AI-driven flood and tsunami forecasting models also enhance preparedness and minimize losses.

Key Impact:

- AI-driven alerts reduce disaster fatalities
- Supports climate adaptation and urban resilience

B. AI in Inclusive Healthcare – India's Apollo Hospitals & Microsoft

Collaboration between AI & Medical Professionals

Apollo Hospitals, in partnership with Microsoft AI, developed an AI-driven cardiac risk assessment tool to predict heart disease risks among underserved communities. The AI model, trained on diverse patient datasets, provides personalized recommendations, enabling early intervention and equitable healthcare access.

Key Impact:

- AI reduces diagnostic disparities for rural populations
- Enhances early disease detection and treatment

C. AI for Sustainable Supply Chains – Unilever & AI-Powered Waste Reduction

Collaboration between AI & Supply Chain Managers

Unilever deploys AI to optimize manufacturing, logistics, and material usage, reducing waste across its supply chain. AI-powered demand forecasting prevents overproduction, and machine learning algorithms optimize packaging materials, cutting plastic use.

Key Impact:

- AI reduces supply chain waste by 15%
- Supports circular economy and eco-friendly manufacturing

D. AI for Clean Water Access – IBM & The Water Project in Africa

Collaboration between AI & Humanitarian Organizations

IBM's AI-driven Water Management System is used in sub-Saharan Africa to monitor water quality and detect contamination in real-time. AI analyzes satellite data and IoT sensor inputs to identify clean water sources, helping NGOs and governments deploy resources efficiently.

Key Impact:

- AI improves water access for vulnerable communities
- Enhances public health and reduces waterborne diseases

E. AI & Inclusive Education – UNESCO & Adaptive Learning Technologies

Collaboration between AI & Educators

AI-powered adaptive learning platforms are being deployed in low-income communities to personalize education based on student needs. UNESCO's partnership with EdTech companies uses AI to provide multilingual, accessible, and skill-based learning, bridging the global digital education gap.

Key Impact:

- AI expands education access for marginalized students
- Supports lifelong learning and workforce development

F. AI for Marine Conservation – OceanMind's AI & Illegal Fishing Detection

Collaboration between AI & Marine Biologists

OceanMind, a nonprofit organization, uses AI-powered satellite imaging and machine learning to detect illegal fishing activities. By analyzing ship movements and oceanographic data, the AI system helps governments enforce sustainable fishing policies, protecting marine biodiversity.

Key Impact:

- AI reduces industrial carbon emissions
- Supports net-zero climate goals

G. AI for Carbon Capture – Carbon Clean’s AI-Enhanced CO2 Reduction

Collaboration between AI & Environmental Scientists

Carbon Clean Solutions, a UK-based company, integrates AI into its carbon capture technology, improving efficiency in removing CO2 from industrial emissions. AI optimizes the capture process, reducing energy costs.

Key Impact:

- AI reduces industrial carbon emissions
- Supports net-zero climate goals

9.5.5 Identified Knowledge Gaps

While there has been extensive research on the contribution of AI to both economic and sustainability gains, this has left several key knowledge gaps unaddressed. Closing these gaps is critical to ensure AI’s longer-term benefits surrounding equitable distribution are realized across societies and industries.

Effect of AI on Low-Skilled Labor Markets

In high-tech industries, the consequences of AI adoption have seen extensive treatment, while its implications for low-skilled workers, especially in developing economies, are still under-researched.

AI-powered automation is set to replace countless conventional jobs in the manufacturing, agricultural, and service sectors. Despite this, we lack comprehensive studies evaluating the specific effects on these workers, such as displacement rates, wage consequences, and reskilling prospects.

Implications for Future Research:

1. How can we use AI to create opportunities for low-skilled workers?
2. How can governments and industries retrain displaced workers in AI driven economies?
3. How can emerging economies access AI without adding to unemployment and wage inequality?

AI and Regulatory Frameworks

One of the biggest challenges is the lack of standardized frameworks for global AI governance. Though a few, like the UAE and the EU, have ushered in ethical AI policies, the vast majority of regions lack cohesive regulatory frameworks that guarantee a responsible implementation of AI. Without harmonious AI laws across different jurisdictions, regulatory

fragmentation, ethical inconsistencies, and difficulties in enforcement may arise.

Future Research Implications:

1. What constitutes the best practice for global AI governance, and how can it be harmonized across economies?
2. How can we create regulatory framework enabling ethical AI without restricting innovation?
3. What role can international organizations play in AI governance to facilitate accountability and fairness?
4. How might AI systems be designed to function in a low-energy mode?
5. What novel strategies will be able to decrease the carbon footprint of AI, while retaining computational efficiency?
6. What role AI can play in making sustainability efforts without introducing unnecessary environmental harm?

Moving Toward AI-Enabled Financial Inclusion

In emerging markets, unmet financial needs could be met through AI-driven solutions. That being said, AI-based credit reporting and automated lending platforms can also contribute to new risks, such as data privacy issues and algorithmic biases. There is also a need of further empirical studies on the effectiveness of AI to increase financial inclusion, especially in regions that are remote or have poor digital infrastructure.

Considerations for Future Research:

1. How could AI-driven financial tools be modified to make them more accessible to the underprivileged while safeguarding data privacy and equity?
2. What regulatory safeguards can prevent bias in AI-powered financial services?
3. What potential do AI-driven microfinance models have, and how can they be scaled to promote sustainable economic development in low-income areas?

AI for decision-making in the Public Sector

AI is being deployed across governance, healthcare, and law enforcement to supplement decision-making processes. Nevertheless, concerns over transparency, accountability, and biases in AI deployments in the public sector persist. The poor explainability of many AI models makes it impossible to determine if AI decisions are fair and free from unintended bias.

Research Implications in Future:

1. How do you ensure transparency and accountability in the implementation of AI in governance and public administration?
2. How to build public trust in the decision-making of new AI-based systems?
3. How to ensure AI is developed according to the principles of ethical governance and Human Rights?

9.6 Conclusion

The implementation of AI needs to be done responsibly and equitably. Although the UAE and international organizations such as the World Bank, the OECD conduct such studies, the knowledge gaps on how AI affects labor markets, regulatory frameworks, environmental sustainability, financial inclusion and governance continue to be major causes for concern.

To realize the full potential of AI, future research needs to be directed to:

- Building inclusive AI policies to safeguard vulnerable workers and guarantee equitable economic engagement.
- Developing environmentally responsible AI approaches to reduce energy consumption and climate consequences.
- Building holistic global governance structures to help enable responsible AI use and minimize regulatory fragmentation.
- Widening the use of AI-led financial inclusion approaches to uplift underprivileged groups with careful transparency and fairness.
- Improving the functions of governance, policies and decisions through AI, transparent and accountable practices.

Filling these gaps will be critical to ensuring AI continues to serve as a force for good, for the benefit of all sectors of society and the broader global community, ultimately delivering a more inclusive and sustainable future.

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