

LEVERAGING AI FOR ECONOMIC GROWTH IN SRI LANKA

IS21123 - Community Informatics (ICT for Developments)

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INTRODUCTION



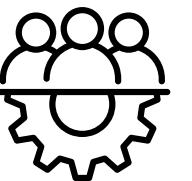
What is AI?

Artificial Intelligence (AI) involves machines mimicking human intelligence to perform tasks like decision-making, problem-solving, and learning..

Objective of This Presentation

To explore how AI can drive economic growth in Sri Lanka, with examples, benefits, drawbacks, and opportunities.

HOW AI CAN BOOST ECONOMIC GROWTH IN SRI LANKA



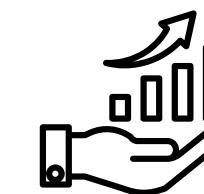
AI-Driven Automation

Increases efficiency in manufacturing, agriculture, and healthcare by automating tasks and reducing errors.



Cost Reduction & Optimization

AI cuts waste and improves efficiency in logistics and agriculture, reducing fuel and water usage.



Smarter Decision-Making

Governments and businesses use AI analytics for better planning and market predictions.



AI-Driven Innovation

Creates opportunities in fintech, e-commerce, and startups through automation and smart solutions.

REAL-WORLD EXAMPLES OF AI IMPLEMENTATION



Healthcare
AI-powered diagnostics and predictive analytics improving patient outcomes



Agriculture
AI-based smart irrigation and crop monitoring enhancing yield



Finance
AI-powered fraud detection and risk assessment by LankaClear



Public Sector
AI-driven e-governance and process automation for improved service delivery



Education
Personalized AI learning platforms improving student engagement

POTENTIAL BENEFITS OF AI-DRIVEN ECONOMIC DEVELOPMENT

Increased efficiency

- Automation reduces manual workloads in various sectors

Job creation

- Expansion of AI-related roles in data science, automation, and cybersecurity

Business innovation

- AI accelerates new product development and market insights

Enhanced public services

- AI streamlining governance and reducing bureaucracy

Global competitiveness

- AI-driven advancements making Sri Lanka attractive for investment

CHALLENGES AND DRAWBACKS

Job displacement

- Automation replacing traditional jobs, requiring workforce reskilling

High costs of AI adoption

- Infrastructure and talent development requiring significant investment

Ethical and privacy concerns

- Need for regulations to manage AI-related risks

Data security issues

- AI-dependent industries vulnerable to cyber threats

AI bias and fairness concerns

- Risk of discrimination if AI algorithms are not properly trained

OPPORTUNITIES FOR SRI LANKA IN AI ADOPTION

Becoming an AI hub in South Asia

Attracting international AI investments and talent

Strengthening AI education and research

Encouraging AI studies at universities

Public-private partnerships

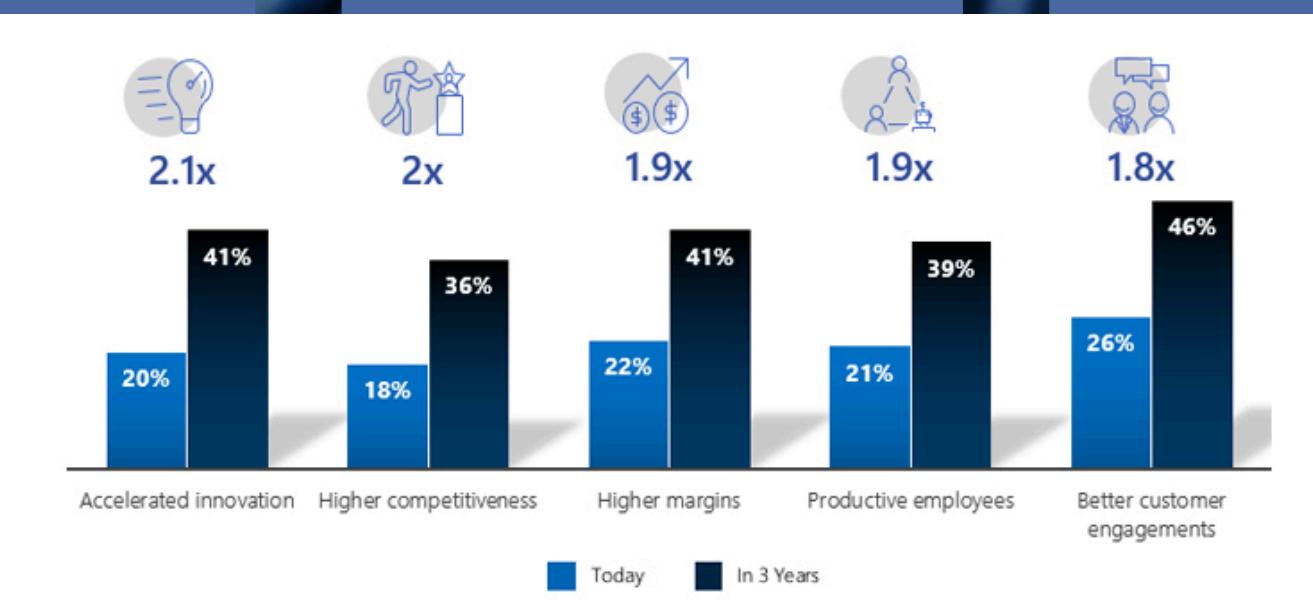
Government collaboration with industry leaders to drive AI innovation

AI in tourism

Enhancing visitor experience through AI-driven personalization

AI and sustainability

Using AI for climate monitoring, disaster management, and smart infrastructure



CASE STUDIES



India

AI-powered agricultural monitoring optimizes irrigation, reduces pesticide use, and improves crop yields (Sharma and Priyadarshi, 2024).



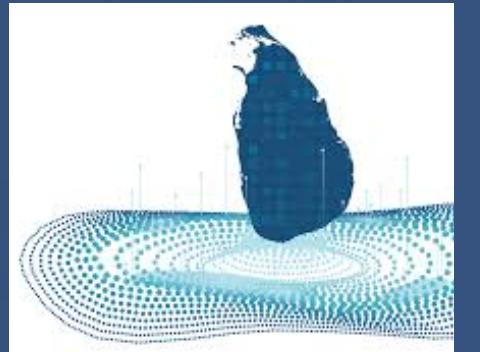
Singapore

The Smart Nation Initiative uses AI for urban planning, traffic control, and public service automation (Smart Nation Singapore, n.d.).



China

AI-driven automation boosts manufacturing efficiency, enhances quality control, and reduces costs (Khanal, Zhang, and Taeihagh, 2024).



AI Readiness Index 2023

Sri Lanka ranks 95th, highlighting the need for AI policies, infrastructure investment, and talent development (Ministry of Technology, 2024).

CONCLUSION & FUTURE STEPS

Ethical and responsible AI adoption

- Ensuring fairness, transparency, and inclusion

Government and private sector roles

- Policymaking, investment, and implementation strategies

Long-term AI development goals

- Establishing Sri Lanka as a leader in AI-driven economic transformation

Call to action

- Stakeholders to collaborate for sustainable AI integration

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THANK YOU!