


The KENYA INSTITUTE for PUBLIC
POLICY RESEARCH and ANALYSIS
Thinking Policy Together


The Future of Industrialization in Kenya

Industries Employing Forth Industrial Revolution (4IR) Technologies




Agriculture

- Blockchain: KTDA has implemented blockchain to enhance transparency in tea supply.
- IOT: SunCulture has developed solar-powered irrigation systems equipped with IoT sensors to help famers manage water usage efficiently.
- Drone Technology: used to monitor crops.
- M-Farm: uses mobile and web platforms to provide farmers with relevant market information.




Healthcare

- Robotics: 3 robots received from Japan during Covid-19
- 3D printing: used to produce prosthetic limbs and orthopedic implants.
- AI: M-afya, M-TIBA, Kangpe Health uses AI to provide remote medical consultations and diagnoses via mobile phones, connecting patients with doctors



Finance

- AI: Equity Bank chatbots and virtual assistants to provide personalized customer support, streamline banking operations.
- Mobile Money: M-pesa has been Kenya's and African's pioneer in mobile money banking.
- Blockchain Technology: used to facilitate secure and transparent transactions.



Education

- Virtual Reality (VR) :iHub Nairobi has created VR education content for students.
- Gamification: KICD has incoportated gamified elements into digital learning
- Ajira Digital: a government initiative offering youth with digital skills for emplotment.
- eLimu: offers learnings in coding and data science and AI.
- Data science and cloud Computing

C: Areas to Exploit



- Digital skills development
- Smart Agriculture Solutions
- 5G technology
- Renewable energy and smart grids.
- Transport and logistics
- Tourism: VR And AR for immersive tourism
- >Innovative startups:
 - NaiLab
 - Gearbox
 - hackathons
- Annual Nairobi Innovation Week



D: Key Players



- Ministries, Departments, Agencies and Counties (MDAC)
- Private sector (including MSMEs, Youth, Women and Persons with Disabilities, individuals)
- Development partners