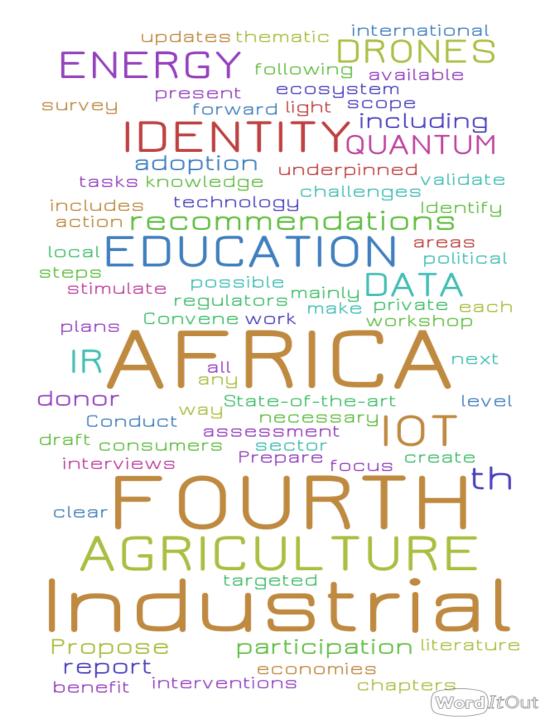
Digitisation in Africa:

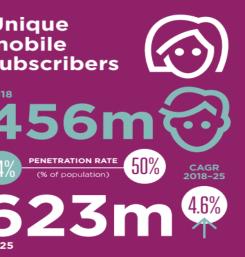
The Potential for the Fourth Industrial Revolution in Africa

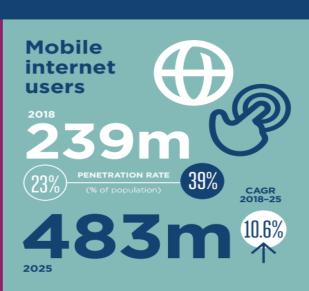
Nick Williams African Development Bank

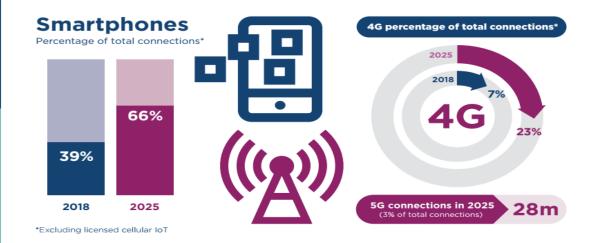




Sub-Saharan Africa

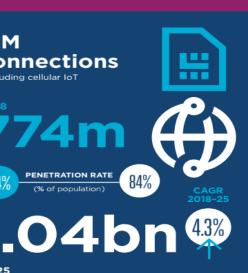








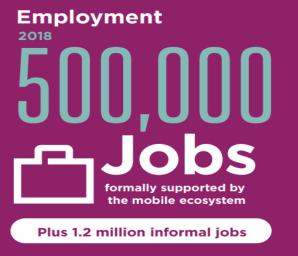




Source: GSMA







MOBILE MONEY IN 2019





by the mobile money industry

Mobile money deployments have more than

90-day active accounts



S 579

57% DIGITAL

Digital transaction values now exceeding cash-in/out values

INDUSTRY FIRST



than exiting the mobile money system





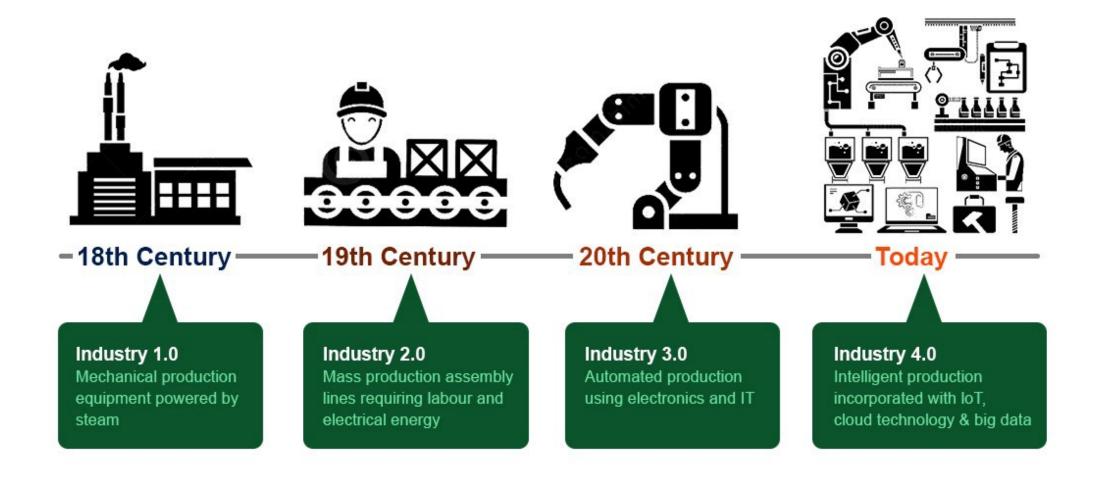
than half of mobile payments by value

Sub-Saharan Africa is

responsible for more



Industry 4.0



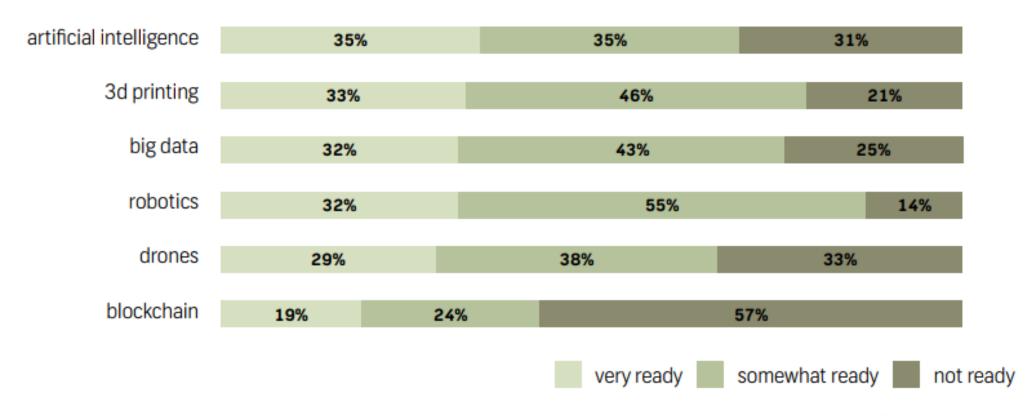


Industry 4.0: smart factory can be a game changer in Africa

Advantages	Traditional factory	Technologies	Smart factory
1 Flexibility	Diverse production lines for different products Handle orders from clients one by one and send them to different manufacturing teams	 3D printing Flexible manufacturing	To produce goods on demand and in time No shift time or cost to change final product classification of a flexible production line
Improving productivity	Robots with low level human-machine interface Isolated production models	Advanced robotsIndustrial internet	Automated production process reduce time High inventory turnover and efficient supply chain management
3 High quality	Solve manufacturing problems when detecting faults Quality evaluation after production	Big dataSimulation	Detect possible faults before production using big data analysis Use simulation for quality improvement
4 Efficiency	Low level inter-connected ERP Traditional engineering method High-cost R&D centers	Industrial internetCloudSimulation	Optimized value chain management Simulated production processes Virtualized R&D
5 Cost saving	Demand for low cost labor Machine operated by workers Non-autonomous value chain analysis	Advanced robotsVertical integrationHorizontal integration	High level M2M connection Low level human intervention Advanced human machine interface
Manufacturing conditions	High training cost for employee to ramp up Noise, pollution, toxic materials in manufacturing sites	Augmented realityCloudCyber security	Cloud based employment training More comfortable manufacturing environment Real-time diagnosis and repair

the data economy

stakeholders' assessment of Africa's readiness to take up technologies





Enabling Factors



HUMAN CAPITAL



GOVERNANCE, POLICY AND REGULATIONS



ENTREPRENEURIAL AND INNOVATION SUPPORT ECOSYSTEMS



ACCESS AND DIVERSITY OF FINANCING



INFRASTRUCTURE





Study on Unlocking the Potential of the Fourth Industrial Revolution in Africa

https://4irpotential.africa/