FINAL REPORT

FOR

EMPLOYMENT CREATION THROUGH DISRUPTIVE TECHNOLOGIES

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Thank you.

EXECUTIVE SUMMARY

Introduction - The Objective of the Study

The study explored how technology disruption is enhancing productivity and creating jobs in the different sectors of the Nigerian economy. It specifically examined how the application of different technological instruments are helping to grow and develop diverse sectors of the economy with the ultimate goal of boosting work force efficiency and creation of more jobs.

The Maps Method was used to design the analytical framework while a five-point Likert-scale questionnaire was used as the data collection instrument. The sectors included in the survey were Agriculture, Health, Education, National Security, Law Enforcement, Official Statistics, Environmental Sustainability, Employment Services, Global Partnership, and Infrastructure.

In the course of this project, a background study/comparison of disruptive technology use in South Korea and South Africa was carried out to benchmark the use cases for Nigeria.

Results

Results showed varied degree of impacts of disruptive technologies in various sectors of the Nigeria economy. Disruptive technologies have resulted in increased investments in ICT in the education sector, thereby creating jobs for stakeholders in the value chain. Waste management attracted more investments in the environmental sustainability sector due to the introduction of various technologies that support systematic waste collected and recycling.

New forms of jobs are being created in the agriculture sector because successful and proactive stakeholders in the sector are now engaging persons who are well-skilled in usage of agriculture drones, satellite photography and sensors, weather forecasting, automated irrigation, intelligent software analysis for pest and disease prediction, soil management etc. New jobs are being created in the health sector with high demand for doctors, nurses, laboratory technicians, pharmacists, etc., who in addition to their primary areas of expertise, are proficient in the handling of basic technology instruments.

Conclusion

Disruptive technologies' impact on the national economy is dynamic, works of routine nature are often affected negatively especially if the workers are averse to upskill of their current knowledge and expertise. However, the technologies also create opportunities for employments and income in some sectors of the economy that were least expected. For Nigeria to get the best out of disruptive technology, Government must increase investment in ICT through enhanced budgetary allocations and alignment of national Plans with ICT masterplan of the country. Also, government must pursue ICT driven governance to enhance productivity and re-image the public sector, especially the civil service.

There must be effective and continuous regulatory measures to ensure the appropriate application and usage of technology. Regulatory agencies should proactively identify extant laws that would aid or inhibit the adoption and ease of use of technologies. Punitive measures and sanctions should be applied when the procurement and application of technology are considered harmful to the environment.

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LIST OF ABBREVIATIONS

3-D	3 Dimensions
AI	Artificial Intelligence
AR	Augmented Reality
CBE	Competency Based Education
EU	European Union
FCT	Federal Capital Territory
Fintech	Financial Technology
FWA	Fixed Wireless Access
GDP	Gross Domestic Products
GHGs	Greenhouse Gases
GIS	Geographical Information System
GPS	Global Positioning System
HR	Human Resource
ICT	Information and Communication Technology
IoT	Internet of Things
ITS	Intelligent transport systems
LEAs	Law Enforcement Agents
LGA	Local Government Area
MDGs	Millennium Development Goals
ML	Machine Learning
NSCDC	Nigeria Security and Civil Defence Corps
SDGs	Sustainable Development Goal
UAVs	Unmanned Aerial Vehicles
VR	Virtual Reality