



Theme: Promoting Inclusive National and Continental Actions for Accelerated Delivery on the SDGs and Agenda 2063”



Keynote Presentation: Leveraging Science, Technology, And Innovation For Accelerated Delivery on SDGS and Agenda 2063

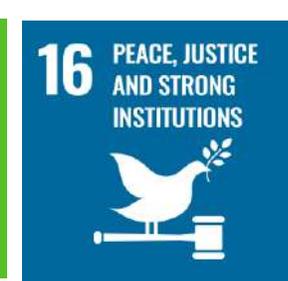
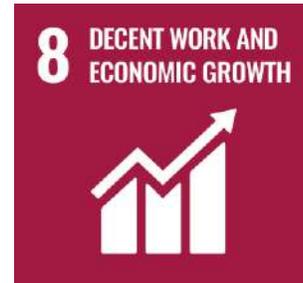
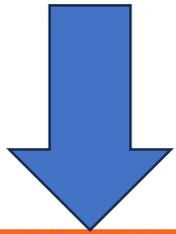
Prof. Alex Ariho
Chief Executive Officer
African Agribusiness Incubators Network(AAIN)
Accra, Ghana



Kampala Serena Conference Centre
22nd June 2023

SDGs at Glance!!

Today's Discussion Paper





Global SDG Facts...

- At the mid-way point on our way to 2030
- SDGs are in deep trouble
- A preliminary assessment of the roughly 140 targets with data show only about 12% are on track (**UN Report, 2022**)
- Close to **50%** are showing progress
- 30% have either seen no movement or regressed
- Under current trends, **575 million people** will still be living in extreme poverty in 2030
- Developing countries ought to have access to global trade, science, technology and innovation
- The number of smartphone users in the world today is 6.92 Billion, which translates to 86.11% of the world's population owning a smartphone-**(Poor utilization)**

SDGs in Africa

- *Crucial role in guiding the continent's development agenda and shaping its path towards a better future*
- **Commitment:** Alignment of national development plans with the SDGs
- **Collaboration and partnerships:** -governments, civil society, private sector, international organizations, and communities, with a focus on inclusivity, equity, and
- **LEAVING NO ONE BEHIND**



SDGs in Africa:

The SDGs provide a comprehensive framework that addresses the unique challenges and aspirations of African countries, encompassing

Poverty
eradication

Education

Healthcare

Gender
equality

Clean
energy

Sustainable
cities

Climate
action



**SUSTAINABLE
DEVELOPMENT** **GOALS**

What is Innovation?

- “Innovation is the unrelenting drive to break the status quo and develop a new where few have dared to go.”

Steven Jeffes, Marketing & Business Expert

- *It involves the application of knowledge, imagination and initiative to derive greater or different value from resources.*
- *It can generate wealth and result in significant resource savings.*
- **“If I had asked the public what they wanted, they would have said a faster horse.”**

Henry Ford (1863-1947), Founder of Ford Motor Company



Role of Science, Technology and Innovation

Advancing
research and
knowledge

Promoting
sustainable
development

Enhancing
productivity and
efficiency

Strengthening
resilience and
preparedness

Bridging
information
gaps

Fostering
innovation
ecosystems

Collaboration
and knowledge-
sharing



The Power of Science, Technology, and Innovation in Africa

1. Digital Solutions for Agriculture
2. Precision Agriculture
3. Agro-processing and Value Addition
4. Climate-Smart Agriculture
5. Farmer Training and Capacity Building
6. Innovation Hubs and Incubators
7. Development of COVID-19 vaccines, agro-input

Science, Technology and Innovation Context

In line with National Development Plan Three (NDP III)	Harness the potential of science, innovation, and technology to drive sustainable economic growth, improve social welfare, and enhance the country's competitiveness.
Agenda 2063 (Aspiration one, goal four and priority area two)	A prosperous Africa based on inclusive growth and sustainable development
SDG (Goal 9, Target 9.3)	<ul style="list-style-type: none">• Industry, Innovation, and Infrastructure• Increasing the access of small-scale industrial and other enterprises to financial services, including affordable credit, and their integration into value chains and markets."
Uganda Vision 2040	Transformed Ugandan society from a peasant to a modern and prosperous country

Uganda's Response



- Business Incubation Since 1960
- SME strategy-**MITIC**
- Research and Development-**MakRIF**
- Innovation and learning-**EHCAI**
- Nurturing start-up businesses
- Ministry of Science, Technology and Innovation established
 - Uganda Industrial Research Institute (**UIRI**)
 - Presidential Initiative for Banana Industrial Development (**PIBID**)
 - Kiira Motors Uganda Limited
 - Uganda National Council for Science and Technological Innovation (**UNCST**).

INNOVATION – UIRI INNOVATIONS...

❖ Textile products



Innovative 3-layer fabric mask develop for COVID-19



Toothpick Polishing Machine



Woven textile products

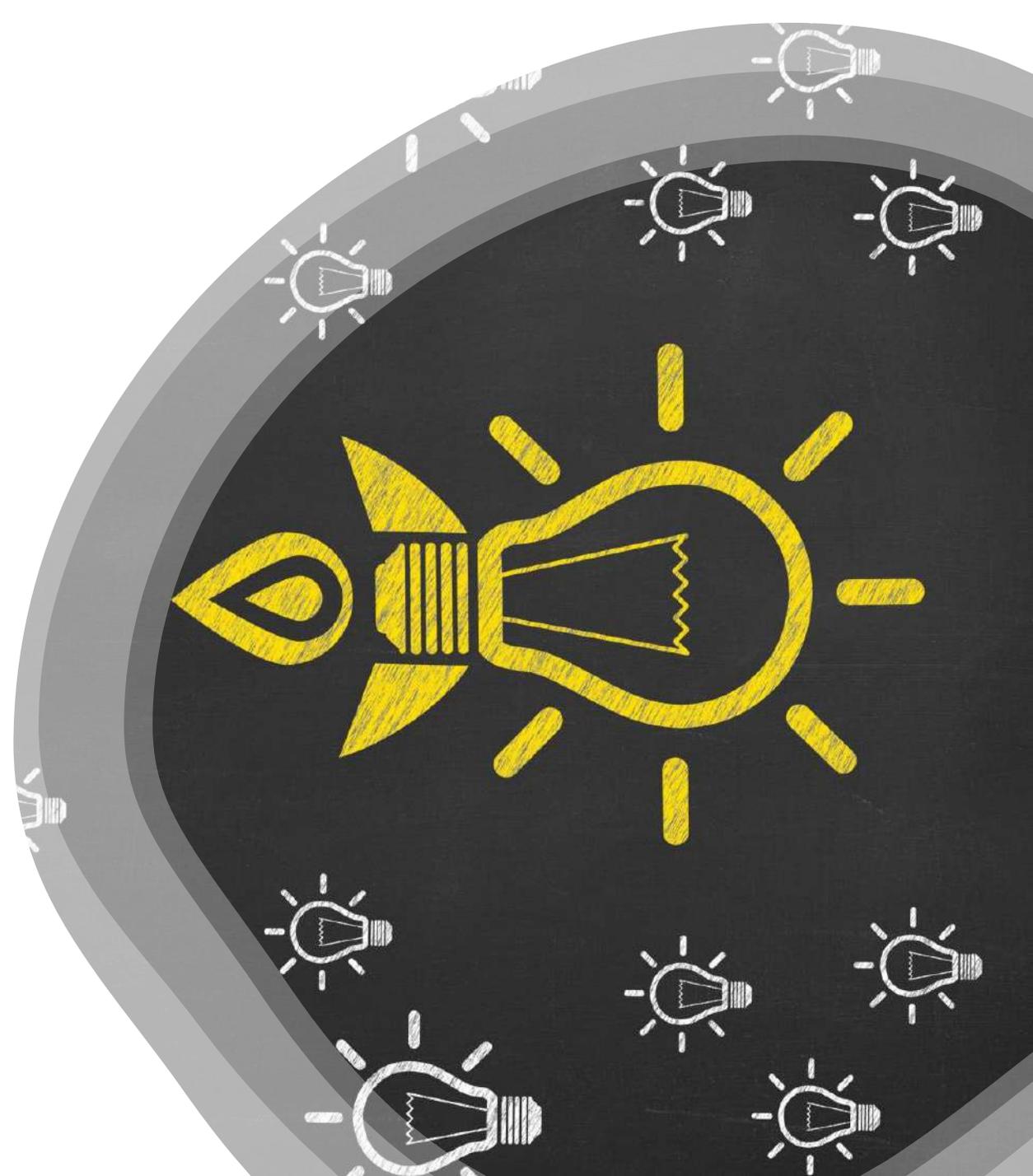
Innovation Success Drivers

- Ideation - formation of new ideas and concepts

“The value of an idea lies in using it.”

Thomas Edison (1847 – 1931), Inventor of the light bulb, gramophone & many other devices”

- Market needs
- Research and Development
- Discovery
- Need to solve societal problems
- Other factors



- Market Driven Investment Approach-A case of Samsung Galaxy S1, J1, A1...

INNOVATION & THE KNOWLEDGE ECONOMY

- **Innovation** is often anchored on **use of proprietary knowledge** that can affect product market dynamics.
- The smartphone market is a good example.



Google



HTC



Samsung

“If you look at history, innovation doesn’t come just from giving people incentives; it comes from creating environments where their ideas can connect.”

Steven Johnson, Science Author & Media Theorist



How do we take advantage of locally based technologies and innovations to boost intra and inter trade relations for socio-economic development?



?

Mobile

Money

Role of Science, Innovations and Technology in boosting : African Continental Free Trade Area

A flagship project of Agenda 2063

- Block Chain and logistics market among African Union member states
- Boost Intra-Africa Trade and beyond guided by ICT solutions
- Promotion of Regional E-trade platforms and economic communities
- Advance trade and value-added production based on ICT solutions
- Establish regional value chains using precision agriculture technology
- Enable investment and job creation
- Foster industrialization



Youth Engagement-Science Innovations and Technology, SDGs and Agenda 2063

- Youth participation is key for achieving the SDGs and Agenda 2063.
- Young innovators play a vital role in finding sustainable solutions to global challenges
- They bring fresh perspectives, creativity, and innovation.
- Young people contribute to scientific research, sustainable development, and job creation.
- Youth can bridge the digital divide through their expertise in technology.
- Youth involvement influences policies and shapes the future of sustainable development.
- Supporting their ideas and providing mentorship nurtures a thriving



INNOVATIONS DRIVEN BY NEED TO SOLVE SOCIETAL PROBLEMS...



Wastewater Treatment Technologies



Medicines & Vaccines

Others include...

- ❖ Food storage and processing technologies
- ❖ Food safety technologies
- ❖ Quality management technologies & systems
- ❖ Textile production technologies

SDGs Critical Success Factors

- Innovative positive mindset
 - Market Driven Investment Approach
 - Relevant skills and competences that match market needs
 - Strategic collaboration and partnerships local and international
 - Access to affordable financial products and services
 - Access to reliable information and data.
 - Enabling policy and legal framework
 - Objectivity, patience, determination and perseverance
- 

What is in it for me?-

WIFM Principle is key for SDGs sustainability



- Jobs for us
- Wealth creation
- Food security
- Asset acquisition
- Environmental sustainability
- Employment opportunities
- Improved livelihoods
- Market linkages
- Increased productivity

Hinderances



Limited financial resources



Inadequate infrastructure



Social inequality



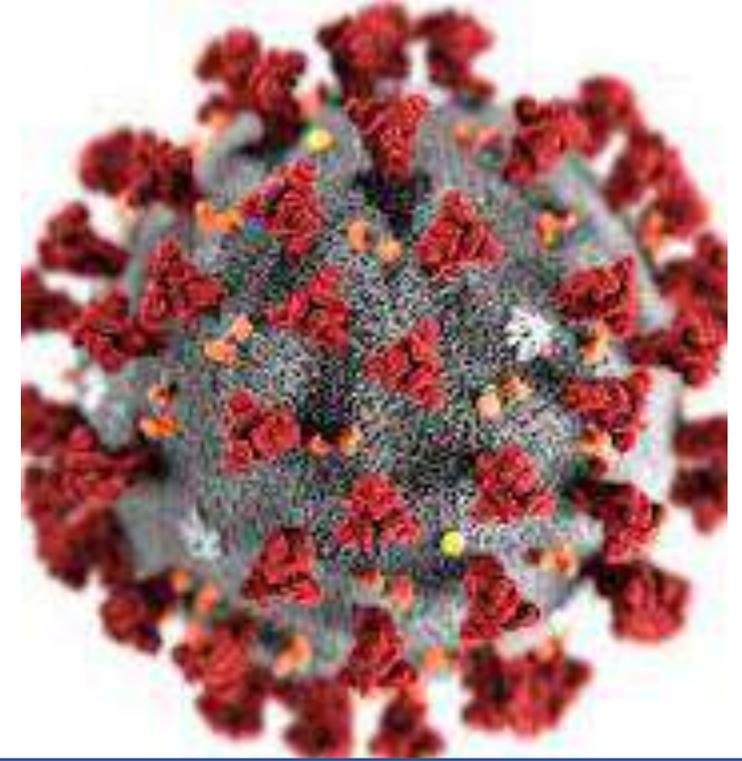
Fragility and conflicts



Climate change and environmental degradation



COVID-19 pandemic



“The lack of SDG progress is universal, but it is abundantly clear that developing countries and the world’s poorest and most vulnerable people are bearing the brunt of our collective failure”

“The real work of social innovation is to fix our broken human systems.”

Cheryl Heller, American Business Strategist & Designer



Call to action

- **Discovery consists of seeing what everybody has seen and thinking what nobody has thought.”** *Albert Szent-Györgyi (1893 - 1986), Hungarian Biochemist*
- Commitment
- Collaborative effort
- Embrace innovation in your work
- Challenge the status quo
- Pioneer ground-breaking solutions that advance the SDGs and Agenda 2063.
- Embrace sustainability in your personal lives, making conscious choices that preserve our environment and protect future generations.
- Promote and advocate for the SDGs and Agenda 2063, inspiring others to join this movement for a brighter future.

Looking into the Future!!!

Deliberate effort and strategies to engage youths and women is fundamental for the success of SDGs

Enhance market opportunities and access for SDG based products and services locally and internationally

Increase funding for SDG-related research and innovations on underlying social issues, social policy and grassroots innovations, particularly in low-income countries.

Improve Access to knowledge, technology and opportunities to contribute to STI development

Enhance public-private sector partnerships and collaborations

Strengthen the science-policy interface to enable the application of science, technology and innovation for the achievement of the SDGs

Bridge the gap between academia, private sector, the community and policymakers.



Thank you

Contacts

Prof. Alex Ariho
Chief Executive Officer
African Agribusiness Incubators Network(AAIN)
Nii Noi Kwame Street, Hse No.664/14, North Dzorwulu, Accra Ghana
P.O. Box CT2724 Cantonment, Accra, Ghana
Tel: +233(0) 303 975 450/+256(0) 702 967 074
Email: alexariho@aain.org
Skype: alex_Ariho
Website: www.africaain.org
