Leveraging on Sustainable Agricultural Mechanization to boost agricultural transformation in Africa
Why is mechanization important in Africa?

Mechanization along the food value chain is an important pillar to enable agricultural transformation in Africa.

- **Sharp increase in food demand**
- **High rate of population growth in Africa** (2.4 – 2.6 billion by 2050)
- **Urbanization**
- **Growing middle class**

**Due to**

- Domestic production is not meeting demand - **low productivity; high food loss; and waste**
- Demand being met by food imports (*net food imports of about $35B per year - AfDB 2016*)
- Mechanization is also critical for meeting objectives of **job creation, enhanced growth** etc.
The African situation

- The use of farm power in agriculture is at extremely a low level
- Farm power:
  - Human muscles – about 65%
  - 25% draught power while
  - Engine power is only about 10%.
- If this is not corrected then ending hunger by 2025 will prove extremely difficult.
Commitment to:

- Consolidate the modernization of African agriculture and agro-businesses:
  
  • Completely **eliminate hunger and food insecurity**;
  
  • **Reduce the imports** of food and raise intra-Africa trade in agriculture and food
  
  • Introduce **modern agricultural systems**, technology, practices and training,
  
  • **Banishment** of the hand-hoe
  
  • Ensure **women’s increased access to land and inputs**, and agricultural financing (policy & advocacy)
Framework for Sustainable Agricultural Mechanization (SAMA)

- Developed in response to a request by the African Union from the 2017 Specialized Technical Committee (STC) meeting
- Responds to both the Malabo Declaration and AU Agenda 2063
- A result of continuous and thorough consultations
- Informs stakeholders the significance of mainstreaming mechanization
- Presents priority elements for developing national strategies
- Officially launched on 5 October 2018 in Rome, Italy
The Sustainable Agricultural Mechanization in Africa (SAMA)

Making SAMA **commercially sustainable:**
- **Boosting farm power** – Appropriate technologies innovative business models
- Promoting **innovative financing mechanisms** for agricultural mechanization
- **Building sustainable systems** for manufacture & distribution of mech. inputs
- Sustainable **mechanization across agrifood value chains**
- **Innovative systems** for sustainable technology development and transfer

Making SAMA **environmentally and socio-economically sustainable**
- Sustainable **transformation of land preparation & crop/animal** husbandry
- Socio-economic sustainability & the roles of **small-scale farmers, women and youth**
- Emphasis on **human resources development and capacity building** for SAMA

**Overarching elements of SAMA**
- Need for a **long-term vision**: policy and strategy issues
- Creating **sustainable institutions** for regional cooperation and networking
Elements of SAMA & digitalization of mechanization in Africa

Examples:

- **Boosting farm power**
  - Using digital technologies to boost mechanization service provision - *Timeliness, Appropriateness, Efficiency* etc.

- Promoting **innovative financing mechanisms** for agricultural mechanization
  - *Using MPESA to access finances/obtain mechanization services*

- **Socio-economic sustainability & the roles of small-scale farmers, women & youth**
  - *Using digitalization to close the gender gap in mech. & to make agric. cool*
What could be achieved through mechanization?

- Sustainable crop production intensification (SCPI)
  - produce more from the same area of land while
    - reducing negative environmental impacts; - conserving natural resources
    - enhancing healthy ecosystem services

- Reduced post-harvest losses

- Enhanced agro-food processing and value addition

- Address emerging challenges:
  - Climate change
  - With digitalization bringing the youth back to agriculture
The emphasis is "mechanization along the value chain"
Call to action!

Who should do what to expedite sustainable mechanization in Africa?

• **Governments:**
  - Enabling environment: Policies, strategies and programmes
  - Standards/Quality assurance
  - Infrastructure

• **Private sector:**
  - Infrastructure and networks e.g. Global System for Mobile communication
  - Investments on mechanization including digitalization
Call to action!

Who should do what to expedite sustainable mechanization in Africa?

- **Academia, R&D**
  - Capacity development/Training
  - Developing mechanization inter-phasing with digital technologies

- **Dev Banks/Financing institutions including MFIs**
  - Financing investment on mechanization including digitalization
  - Supporting efforts to enhance access to mechanization (smallholder farmers esp. for women and youth)

- **Development partners**
  - Funding efforts on mechanization including efforts to digitalization
  - Supporting efforts to ensure youth and women benefit from digitalization
AGENDA 2063


Framework for SAMA

Thank you for your attention

Merci beaucoup pour votre attention

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