



Food and Agriculture
Organization of the
United Nations



A Framework for Sustainable Agricultural Mechanization in Africa (F-SAMA):

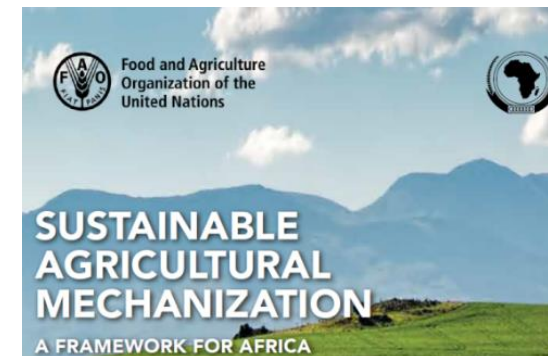
Background & The key elements

AUC, ACT, FAO Webinar; 17th November 2020



Background information in brief

- In 2015 in South Africa, a campaign was launched to **confine the hand hoe to the museum by 2025**
- This AU campaign was informed by the **Malabo Declaration**
- FAO, in response to a **request by the African Union** formulated a TCP project in 2016 to develop a Framework for SAMA
- The **SAMA Framework was presented and endorsed** by the 2017 Specialized Technical Committee (STC) meeting of AU and was launched by AUC and FAO in Rome on 5th October 2018
- **Informs stakeholders** the significance of mainstreaming mechanization **and** responds to both the **Malabo Declaration** and **AU Agenda 2063**
- Presents **ten priority elements** for developing national strategies





Making Agricultural Mechanization (AM) in Africa commercially sustainable



1 Boosting farm power through appropriate technologies and innovative business models

- The objective is to **increase the farm power** available & reduce use of hand-tools
- Through **farmer's ownership** of machine or mechanization **hire service** providers



2 Promoting innovative financing mechanisms for agricultural mechanization

- Mechanization requires long-term commitment required
- Support farmers **through credit or direct grants**
- **Private sector** to lead the investment efforts - **public sector** create conducive environment





Ten elements of the Framework SAMA

Making Agricultural Mechanization (AM) in Africa commercially sustainable



3 Building sustainable systems for manufacture and distribution of mechanization inputs

- There need to establish and operate **viable entities** to manufacture agricultural machinery and implements; set standards; carry out testing; support franchises for distribution; repair & maintenance



4 Sustainable mechanization across agrifood value chains

- Allow mechanization to cover the entire agrifood chain i.e. holistic approach (From inputs to farm outputs including issues of reduction of post-harvest losses)
- This will contribute to the commercial sustainability of agricultural mechanization





Ten elements of the Framework SAMA

Making Agricultural Mechanization (AM) in Africa commercially sustainable



5 Innovative systems for sustainable technology development and transfer

- Develop **innovative/futuristic technologies** targeting small-scale farmers, youth, women
- Enhancement of research/technology development, testing, transfer and extension etc.
- Sub-regional collaboration for the development and transfer of technologies



6 Sustainable transformation of land preparation & crop/animal husbandry practices

- To **transform crop production techniques** from current conventional tillage methods to sustainable agricultural practices: e.g. conservation agriculture (CA)
- Adoption of **sustainable land preparation techniques** i.e. convince farmers to change.





Ten elements of the SAMA Framework



Making AM in Africa Environmentally and Socio-Economically sustainable



7 Socio-economic sustainability and the roles of **small-scale farmers, women and youth**

- Strategies for SAMA must factor in institutional issues related to small scale farmers
- Take into account mainstreaming of gender dimensions
- Use SAM to empower youth to continue to embrace farming



8 Emphasis on **human resources development and capacity building** for SAMA

- **Investing in human resources** has helped to develop mechanization in Africa
- **Capacity development** is essential at all levels





Ten elements of the SAMA Framework

Overarching aspects of the Framework



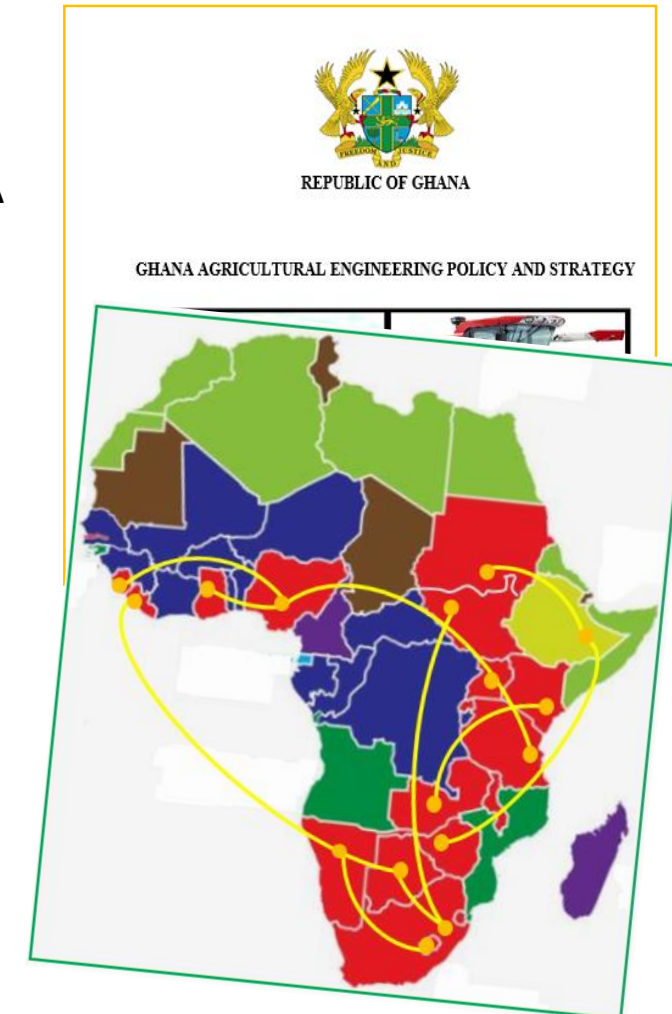
Need for a **long-term vision**: policy and strategy issues

- **Capacity development** - both human resources and institutional set-up for SAMA
- Establishment of **centres of excellence**



Creating **sustainable institutions** for regional cooperation and **networking**

- Enhance **Regional cooperation** to bring countries together to tackle common problems and learn from each other
- Strengthening of **regional capacity**
- Fostering **South - South collaboration**





Going forward

- **Ensuring that F-SAMA features well** in the implementation of the major initiatives for agricultural mechanization in Africa
- Supporting **implementation of the activities** leading to operationalization of F-SAMA
- **Networking , cooperating, sharing information** and **experience** among countries in Africa on sustainable agricultural mechanization including **standards, capacity development,** etc.
- The need for **Institutional Framework** for networking and regional collaboration in implementation of F-SAMA





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[F-SAMA English version: http://www.fao.org/3/CA1136EN/ca1136en.pdf](http://www.fao.org/3/CA1136EN/ca1136en.pdf)

Thank you for your attention

www.fao.org/sustainable-agricultural-mechanization

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