



Food and Agriculture
Organization of the
United Nations



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

Background & The key elements

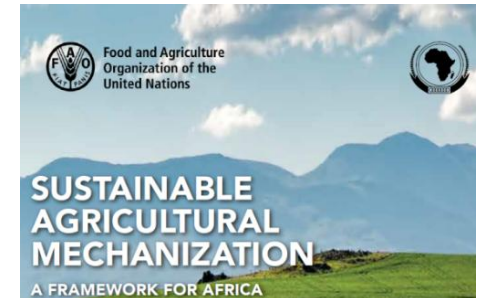
AUC, ACT, FAO Webinar; 17th November 2020





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





Ten elements of the Framework SAMA



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

Savings And Credit
Co-Operative

3 Building sustainable systems for manufacture and distribution of mechanization inputs

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





Ten elements of the Framework SAMA

Making Agricultural Mechanization (AM) in Africa commercially sustainable



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



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





Ten elements of the SAMA Framework



Making AM in Africa Environmentally and Socio-Economically sustainable

- 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.



- 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

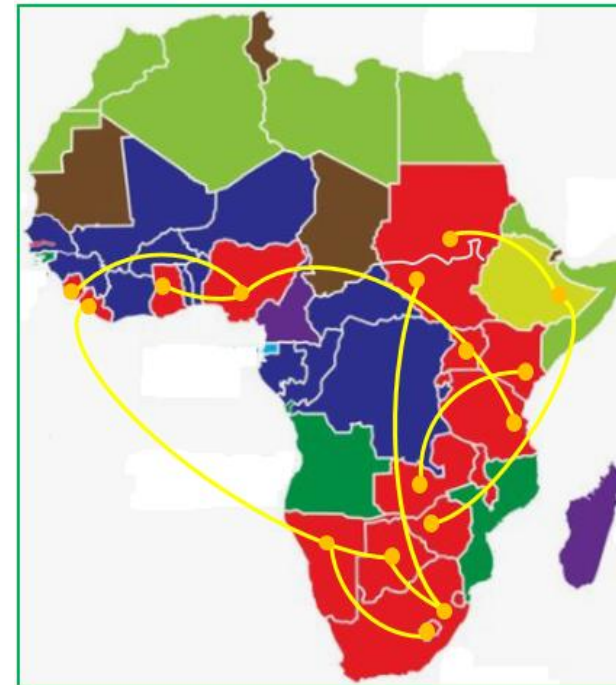
Overarching aspects of the Framework

9 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**

10 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





Food and Agriculture
Organization of the
United Nations



F-SAMA English version: <http://www.fao.org/3/CA1136EN/ca1136en.pdf>

F-SAMA Synopsis: <http://www.fao.org/3/ca7304en/CA7304EN.pdf>

Thank you

