



Promotion and Development of Agricultural Mechanization in (Country)

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How is agricultural mechanization in Ghana contributing to increased productivity along the value chain?

- Has improved the **efficiency of farm operations** and **timeliness** by employing the use of various power sources and improved farm tools and equipment to enhance cropping, harvesting and processing intensity.
- With an increase in mechanization interventions by successive Governments through the Ministry of Food and Agriculture, many smallholder farmers in Ghana who used to crop 2 acres of land have been able to expand.
E.g., Government assisted mechanisation service providers (AMSECs) with machines have afforded farmers easy access to mechanized services for land preparation and other operations to meet farming seasons on time.
- Additionally, **rice farmers** are able to meet harvesting timeliness as a result of availability of **combine harvesters** and **rice reapers**, even though still inadequate.



How is agricultural mechanization contributing to increased productivity along the value chain?

Examples - Contribution of Mechanization in Ghana:

1. Increase in cropped area major crops in Ghana
 - **2019 Figures in hectares: Maize (1,150,280); Rice (281,203); Millet (147,919) and Sorghum (225,689)**
2. There is **intensification of production** in a **sustainable manner** in the country.
 - **Over 14,000 agricultural machinery and equipment** have been imported for farmers to improve their farming operations from 2019 to date.
 - Plans are far advanced for procurement of **2,329 machinery and equipment from Brazil.**
3. Plays a key role in **enabling the growth of smallholder farmers** into **commercial agrifood systems.**
 - **411 smallholder farmers** have graduated to commercial farmers due to the acquisition of farm machinery in 2018 and 2019.
4. Improve the **efficiency of post-harvest handling, processing and marketing operations.**
 - **1,790 units of harvesting and post harvest machinery** have been infused in the agricultural system.
 - Furthermore **80 warehouses** are built in farming communities for storage of commodity. Ghana Commodity Exchange and National Food Buffer Stock are using them.
5. Most of the activities are carried out promptly



Notable actions that are being taken to advance sustainable agricultural mechanization

- **Formulation of** Ghana Agricultural Engineering Policy and Strategy
- Acquisition of a **wide range of agricultural machinery & equipment** for supply to farmers/agro processors at subsidized rates
- Establishment of **Agricultural Mechanization Centers (AMSECS)** in the various districts to provide mechanization services at the doorsteps of farmers and agro-processors at affordable cost.
- **Development of human capacity** in agricultural machinery management, operations and maintenance to ensure proper use and reduction in machinery breakdown.
- **Nationwide construction of warehouses** for proper storage of farm produce and reduction in post-harvest losses



Key challenges that need to be addressed to spearhead operationalization of F-SAMA in your country

Sustainability of mechanization includes **financial** and **social**, as well as environmental factors.

Key challenges there exist in these areas:

- **Inadequate supply of machinery and equipment** to meet demand of actors along the value chain.
- **Inadequate supply** or unavailability of **spare parts**.
- **Lack of technical knowhow** in respect of machinery handlers
- **Inability of most smallholder farmers to afford** machinery or mechanization services
- **Lack of support** where feasible for **local manufacturers** as they can provide implements and machines adapted to local conditions—and better technical service and replacement part supply.



Thank you for your attention!



Webinar on “Operationalization of the Framework for Sustainable Agricultural Mechanization in Africa (F-SAMA)”

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