



Agricultural Mechanization Policies and the Status of Rice Sector in Nigeria

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Presentation Outline

- 1.0 Mechanization in Nigeria's Agricultural Sector: A slow pace
- 2.0 Potential for Growth in Nigerian Agricultural Mechanization Markets
- 3.0 Equipment and Machinery Needs of Small Holder Rice Farmers in Nigeria
- 4.0 Current status of Rice Production in Nigeria
- 5.0 Government Policies and Goals for Mechanization

Mechanization in Nigeria's Agricultural Sector: A Slow Pace

Mechanization Gap of Smallholder Farmers in Nigeria:

- ❑ Mechanization in Nigeria remains low at 0.03 hp/ha compared to 8hp/ha in China or 2.5 hp/ha in Thailand.
- ❑ Currently, the number of serviceable tractors available in the country is in the range of 20,000- 25,000 (NRDS-II, 2022).

Challenges Hindering Mechanization:

- ❑ **High cost of machinery:** Tractors and other farm equipment are expensive, beyond the reach of many smallholder farmers who form the backbone of the agricultural sector.
- ❑ **Lack of access to credit:** Farmers often struggle to secure loans to purchase machinery.
- ❑ **Skill shortage:** There's a shortage of trained personnel to operate and maintain agricultural equipment.
- ❑ **Small landholdings:** Many farms are small, making the use of large-scale machinery economically unviable

Potential for Growth in Nigerian Agricultural Mechanization Markets

- ❑ **Focus on smallholder farmers:** Developing affordable and appropriate machinery for small-scale farmers.
- ❑ **Promoting tractor hiring services:** Encouraging the establishment of tractor hiring businesses to make mechanization accessible to more farmers.
- ❑ **Investing in training:** Providing training programs to equip farmers with the skills to operate and maintain machinery.
- ❑ **Improving infrastructure:** Enhancing Road networks and other infrastructure to facilitate the use of mechanized equipment.
- ❑ **Financial support:** Expanding access to credit for farmers to purchase machinery.

Equipment and Machinery Needs of Small holder Rice Farmers in Nigeria

Paddy Production

- Tractors (25 – 80 Hp)
- Power tillers (18 – 25 Hp)
- Soil paddlers
- Motorized weeders
- Motorized sprayers
- Hand-push Rice transplanter
- Motorize Rice transplanter
- Solar-powered water pumps
- Reapers
- Multipurpose threshers
- Winnowers.

Paddy Processing

- Rice milling machines
- Destoners
- Paddy grading equipment
- Driers
- Colour separators

CURRENT STATUS OF RICE PRODUCTION IN NIGERIA

■ Nation Population	227.4 million
■ Rice Farmers Population	12.0 million
■ Nation Paddy Production:	8.55 million
■ Nation Production of milled Rice:	5.56 MMT
■ Nation Demand of Milled Rice:	7.83 MMT
■ Demand-Production:	2.3MMT
■ Per capita rice consumption:	32kg
■ Target set for Paddy prod by 2030:	34 MMT
■ Land under rice cultivation:	3.7 MHa
■ Cultivable land area suitable for rice prod:	4.234 MHa

Government Policies and Goals for Mechanization in Nigeria's Agriculture

The Nigerian government has recognized the pivotal role of mechanization in boosting agricultural productivity and has implemented several policies to this end.

Key Government Policies:

- ❑ **Agricultural Equipment Hiring Enterprise (AEHE) (2015 till date):** Under this project, an estimated 10,000 tractors with accompanying implements are being targeted for supply to service providers across the major rice producing clusters. The investment is payable over 4 years after a moratorium of 1 year.
- ❑ **The Green Imperative Programme (GIP):** It is aimed at providing enhanced Agricultural Mechanization, Specialized Extension Services and Agro-Processing in the 774 LGAs of the country under the More Food International Programme (MFIP).

Government Policies and Goals for Mechanization in Nigeria's Agriculture-(continue)

- ❑ MoU with John Deere for the acquisition of 2000 units of tractors with implements and 100 Combine harvesters every year for 5 years.
- ❑ MoU with Belarus Tractors for the supply of 2000 units of tractors with implements and 10 Combine harvesters every year for 5 years
- ❑ Approval for Greener Hope Agric Mechanization programme for procurement of 1,000 units of Tractors with implements to establish 53 service centres/hub to provide mechanization services to farmers nation-wide.

❑ **Financial Support:**

Goal: To increase farmers' access to capital for mechanization.

Policy: Providing loans and credit facilities for purchasing agricultural equipment.

❑ **Policy Development:**

Goal: To create a conducive environment for mechanization.

Policy: Formulating policies like the National Agricultural Technology and Innovation Policy (NATIP)

❑ **Public-Private Partnerships:**

Goal: Leverage private sector investment in agricultural mechanization.

Policy: Creating enabling environment for private sector participation in the sector.



Thank you for your
attention
