UNITED REPUBLIC OF TANZANIA
MINISTRY OF AGRICULTURE

PRESENTATION ON
Harvesting and Post-Harvest Mechanization to Support Food Security in Asia and Africa
Introduction

- Total land covering 94.5m ha
- Population about 58.5 Million with the national growth rate 3.2%
- Tanzania bordered with
  - Uganda and Kenya to the north
  - Burundi, Rwanda, and Congo to the west
  - Mozambique, Zambia, and Malawi to the south
Agricultural Sector Status and Success

- Smallholders dominate production, with more than 90% of cultivated land.
- Annual growth averaged 4% in the past 6 years.
- Sector provides about
  - 65.5% of employment
  - 29% of GDP
  - 30% of Exports and
  - 65% of raw materials to the industrial sector
- Food Self-sufficient level is 123% (2015/16)-decreased from 125% (2014/15). Scarcity of rainfall could be main reason contributed but we are Food Secure
Agricultural Sector Status and Success

- **Irrigated area:** increased from 264,338 Ha in year 2005/06 to 461,326 Ha in year 2014/15 (74% within 9 years)

- **Decline of Inflation Rate:** Stable food prices is one of important factor lead to declining inflation rate (7.01% in year 2006 to 5.56% in year 2010, 5.6% in 2015 and 4.5% by October 2016)

- **Export volume and Value:** Export volume and value increased for cash crops (coffee, cotton, sisal, tea, tobacco and cashew nuts).

- **Developed of marketing infrastructure and systems** for some commodity value addition e.g Cashewnut- Receipt Systems.
The development of mechanization in the country has been slow as it is held back by several factors which include:

- low purchasing power of most small scale farmers
- low producer prices
- high cost of agricultural machinery
- lack of agricultural credit
- lack of well trained operators and mechanics for agricultural machinery
- lack of suitable machinery packages for main agricultural operations
- general poor technical know how
AGRICULTURAL MECHANIZATION IN TANZANIA

UTILIZATION OF AGRICULTURAL MACHINERY IN TANZANIA (2016)

- Hand hoes: 24%
- Animal Draft: 62%
- Tractors: 14%

Legend:
TECHNOLOGIES USED BY FARMERS IN TILLAGE
TECHNOLOGIES USED BY FARMERS IN TRANSPLANTING
TECHNOLOGIES USED BY FARMERS IN WEEDING
TECHNOLOGIES USED BY FARMERS IN HARVESTING
TECHNOLOGIES USED BY FARMERS IN THRESHING
TECHNOLOGIES USED BY FARMERS IN THRESHING
TECHNOLOGIES USED BY FARMERS IN PROCESSING
TECHNOLOGIES USED BY FARMERS IN TRANSPORTATION
STORAGE FACILITY
SOME OF MACHINERY IN AGRICULTURAL SHOW
Challenges in Agricultural sector

Despite its significant contribution to GDP, food security and farmer income, Tanzania’s agriculture sector is challenged by:

1. Low productivity due to:
   - Poor extension services
   - Poor technologies- depended on rain-fed agriculture (relied on hand-hoe cultivation in rain fed agricultural system, and the sector is dominated by small scale subsistence farming, and about 85 percent of arable land belonged to smallholders who had 0.2 to 2.0 ha of land.),

2. Weaknesses of crop market access (to most of crops)
Challenges in Agricultural sector

3. Post-harvest losses
   - 25-35% cereal grains and grain legumes
   - 50% fruits
   - 30% roots and tubers

4. Under-developed supporting facilities & infrastructure (feeder roads, markets, electrification, storage, facilities agro-processing)

5. Low level of expenditures (Low investment in infrastructures e.g. irrigation, markets, mechanization, inputs and Data Systems)
Agricultural Sector: Transformation Agenda

- **Government Focuses on:** Food and Nutrition Security, Household income and GDP growth - Through implementation of Agricultural Sector Development Program phase II (ASDP II) which considered:
  
i. Focus and Prioritized Commodities along the Value Chain (CVC)

ii. Agricultural Ecological Zones (AEZ) and District Clusters

iii. Improvement of Agricultural/Business Environment
  - Friendly/Attracts investments
  - Incentives (private sector/farmers groups/organization)
  - Developing market systems & use comparative advantage in some commodities
  - Eliminate unnecessary cess & tax to producers
  - Use of ICT/technologies
Ahsanteni sana/Thank you

Welcome in Tanzania