



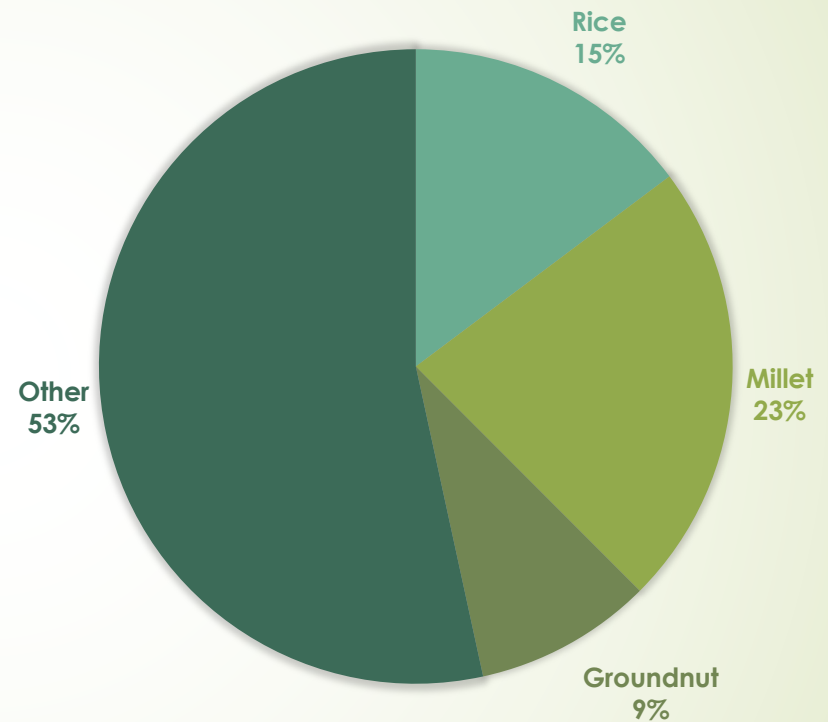
Agricultural Productivity in The Gambia

Dr. Ousman Gajigo

Preliminaries

- The agricultural sector is vast, with many sub-sectors.
- Focus will be on a few crops: Rice, Groundnuts, & Millet
- State of affairs of all agricultural sub-sectors in The Gambia are highly correlated.

AREA HARVESTED - GAMBIA



Agriculture & The Gambian Economy

- ▶ Important sector of the economy
 - ▶ 25% - 30% of GDP
- ▶ Source of Foreign exchange earning
 - ▶ 40% of net foreign exchange earnings
- ▶ Large of employment
 - ▶ 50%
- ▶ Significant share of household income
 - ▶ 60% - 75% of household income



What is Agricultural Productivity

- Agricultural output per given input.
 - Output: quantity of production
 - Input: land, labor, etc.
- **Output/unit of land: Yield**
- Implies efficient use of limited resources

Why Agricultural Productivity is Important

- ▶ Increases food production and improves **food security**.
- ▶ Increases incomes of farm producers, and therefore contributes to **poverty reduction**.
- ▶ Decreases the prices of farm produce, **reduces inflation** and reduces **costs of living**.
- ▶ Increases in productivity enables farmers to increase their range of farming activities and leads to **structural change in agriculture**.
- ▶ Increases in productivity allow the marketing of produce for **agro-processing and manufacturing**, which leads to **structural change in the economy**.
- ▶ Increases in productivity **reduces imports**, which limits our exposure to outside shocks and reduce **importation of inflation**.

The Road to Development



- Food supply
- Income from surplus market



- Diversity in agriculture
- Greater local supply of inputs for processing firms



- High value manufacturing
- Economic complexity
- Less import dependent

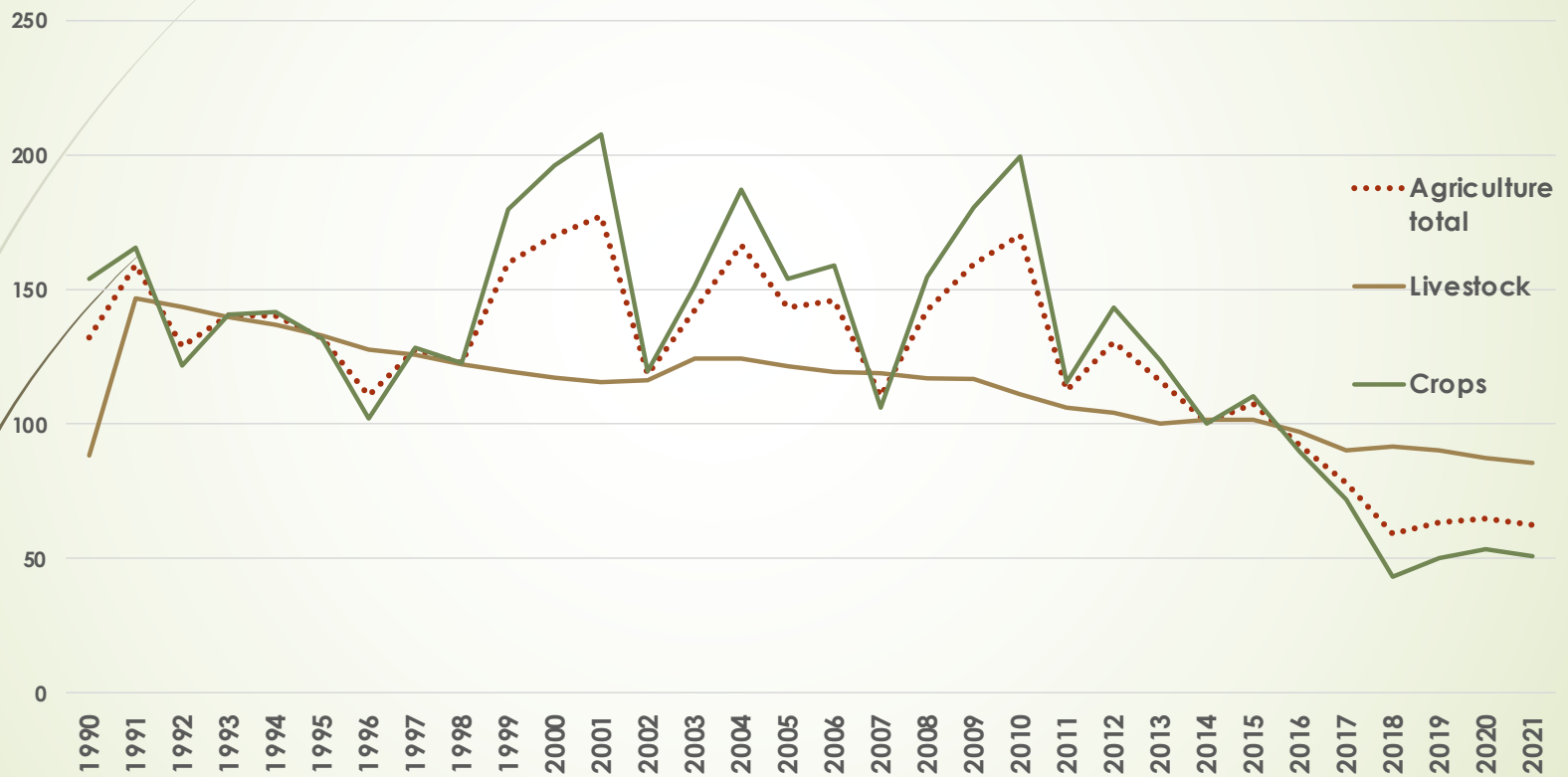


What Determines Agricultural Productivity?

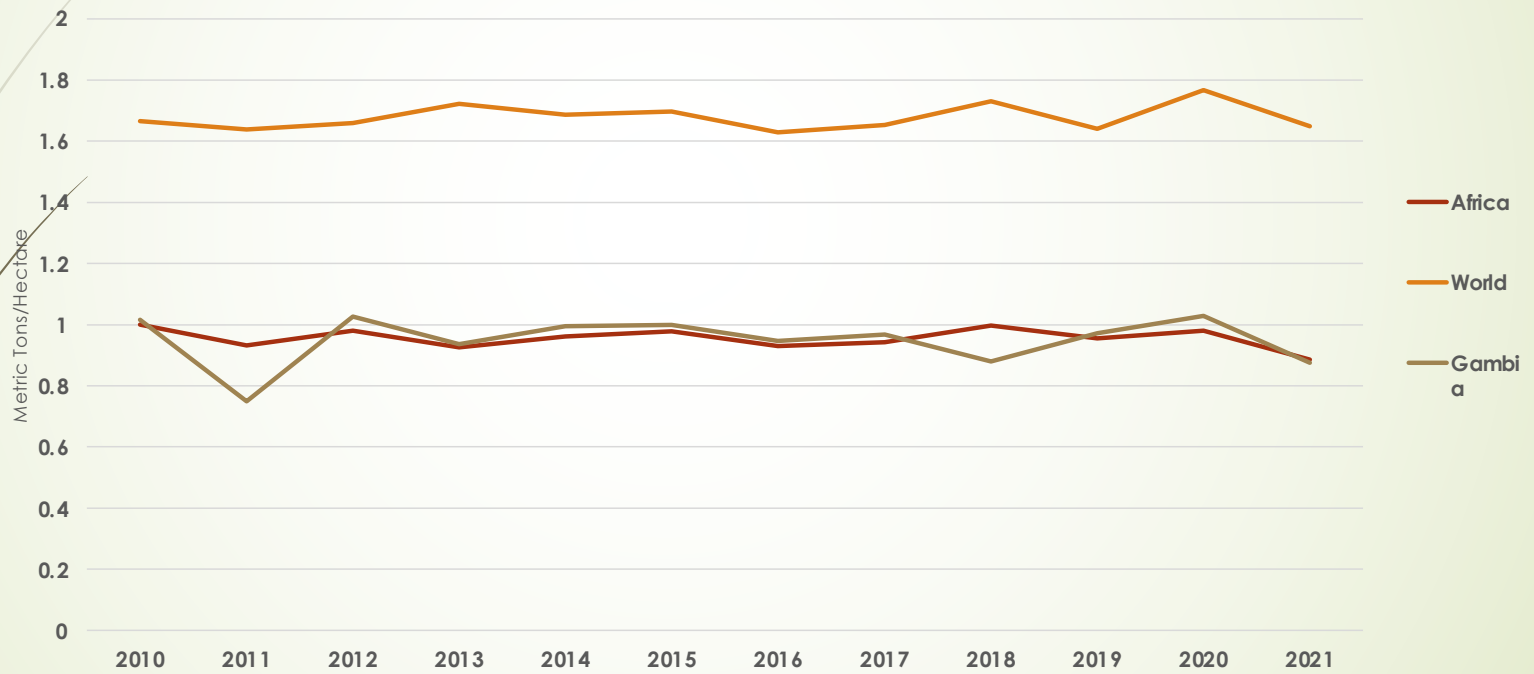
- ▶ Access to appropriate inputs
 - ▶ Seeds, fertilizer, machinery, etc.
- ▶ Access to financing
 - ▶ Loans, guarantees
- ▶ Infrastructure
 - ▶ Irrigation, transportation and storage
- ▶ Extension services

Total Agricultural Sector Productivity

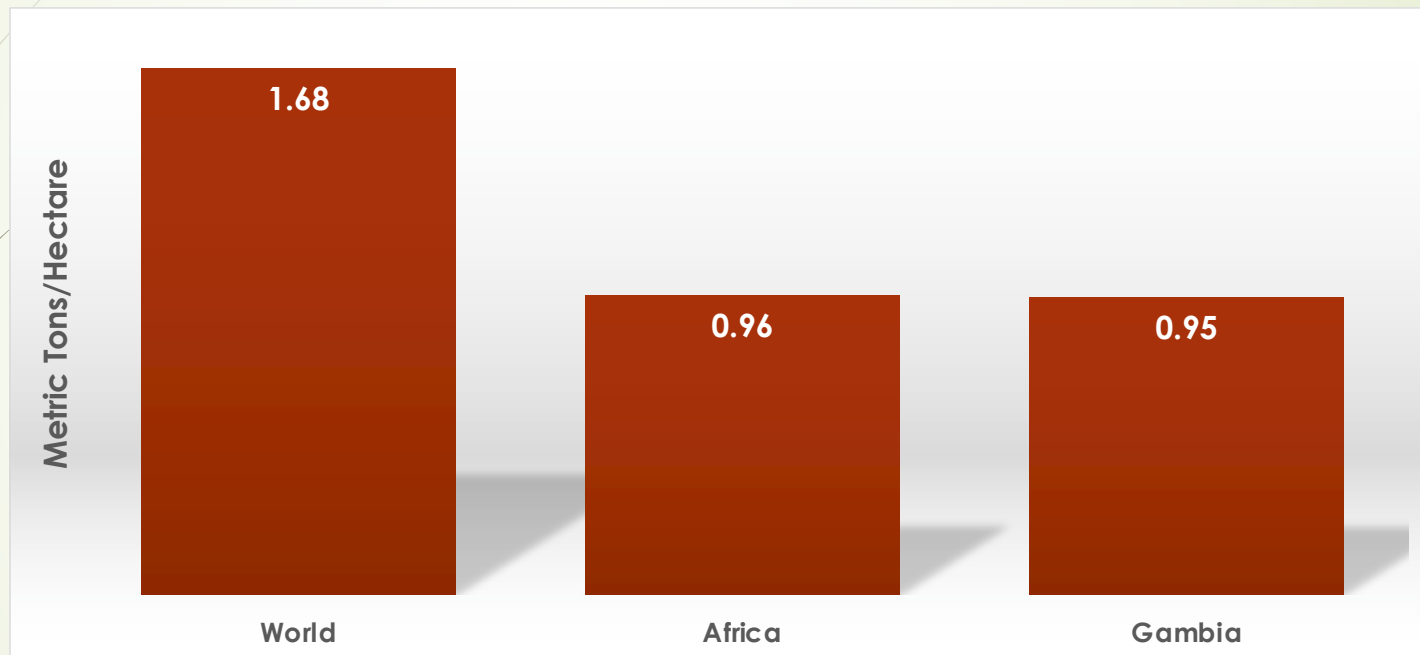
Gross Per Capita Production Index (Base year: 2014-2016)



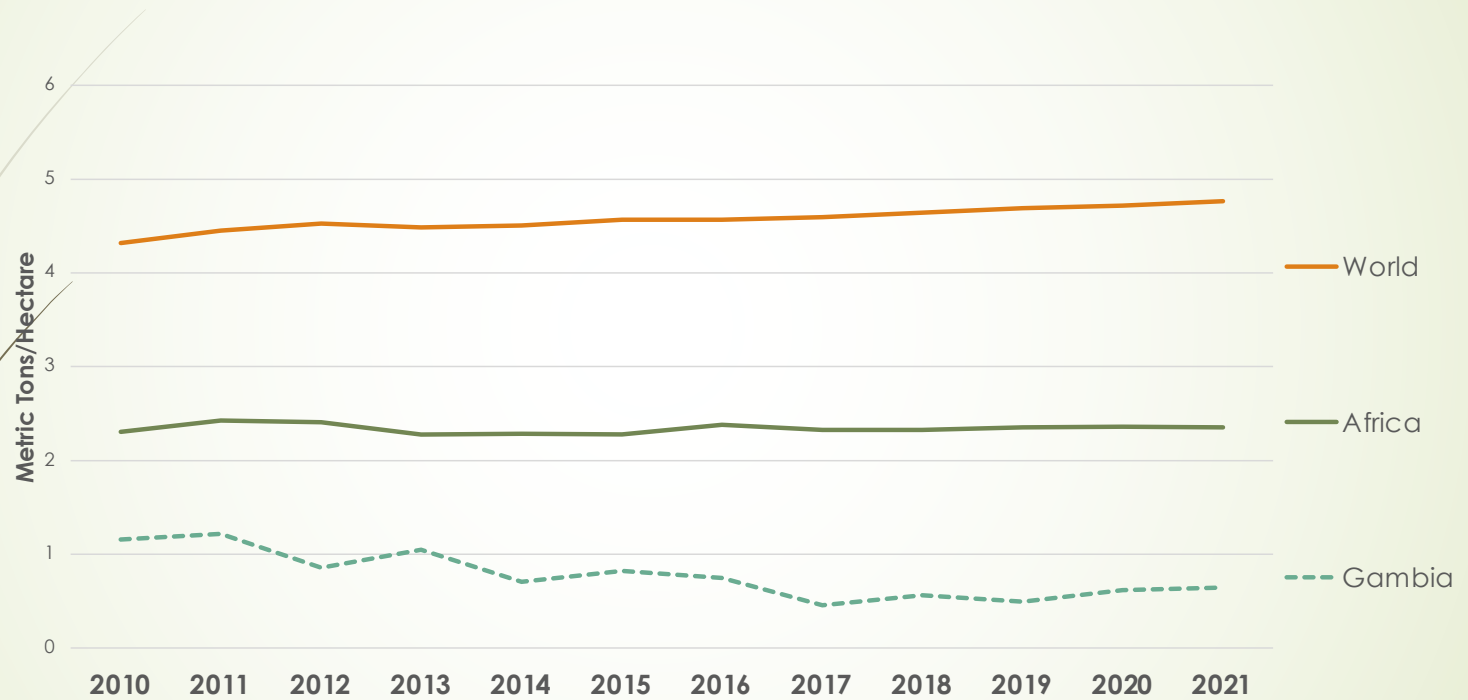
Groundnut Yield (Metric/Hectare)



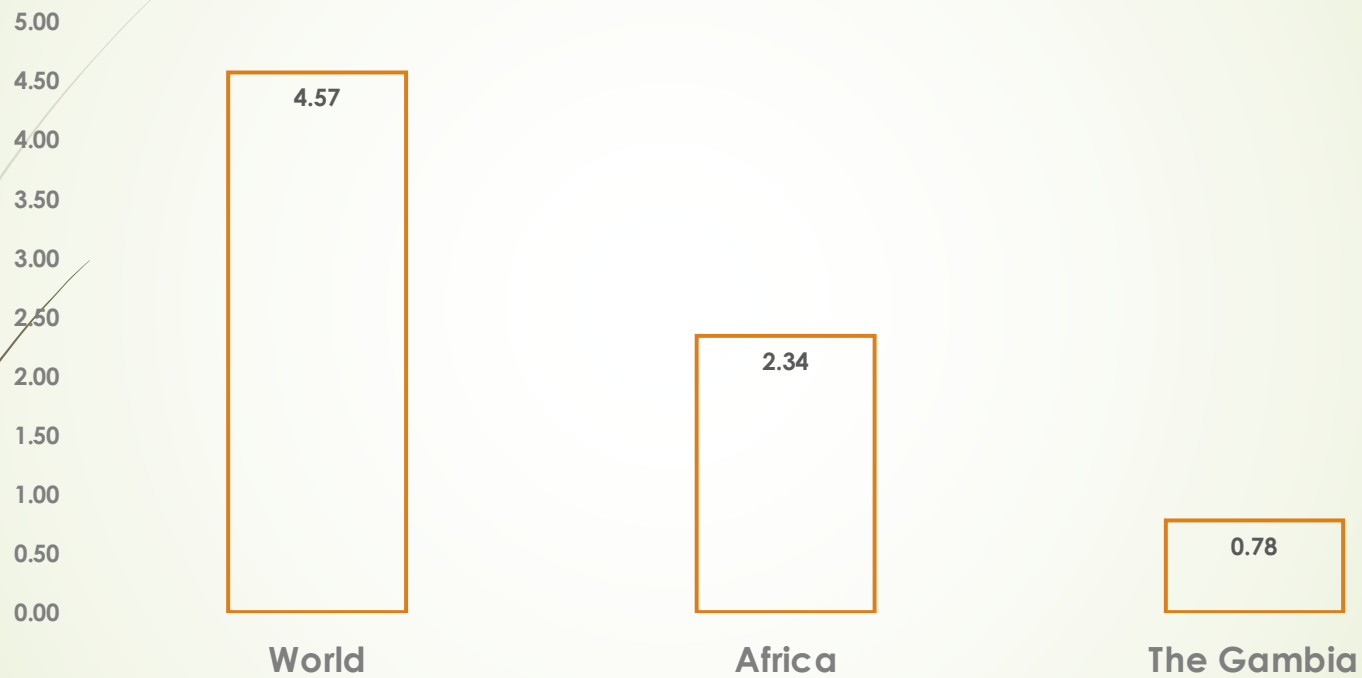
Average Rice Yield (2010-2021)



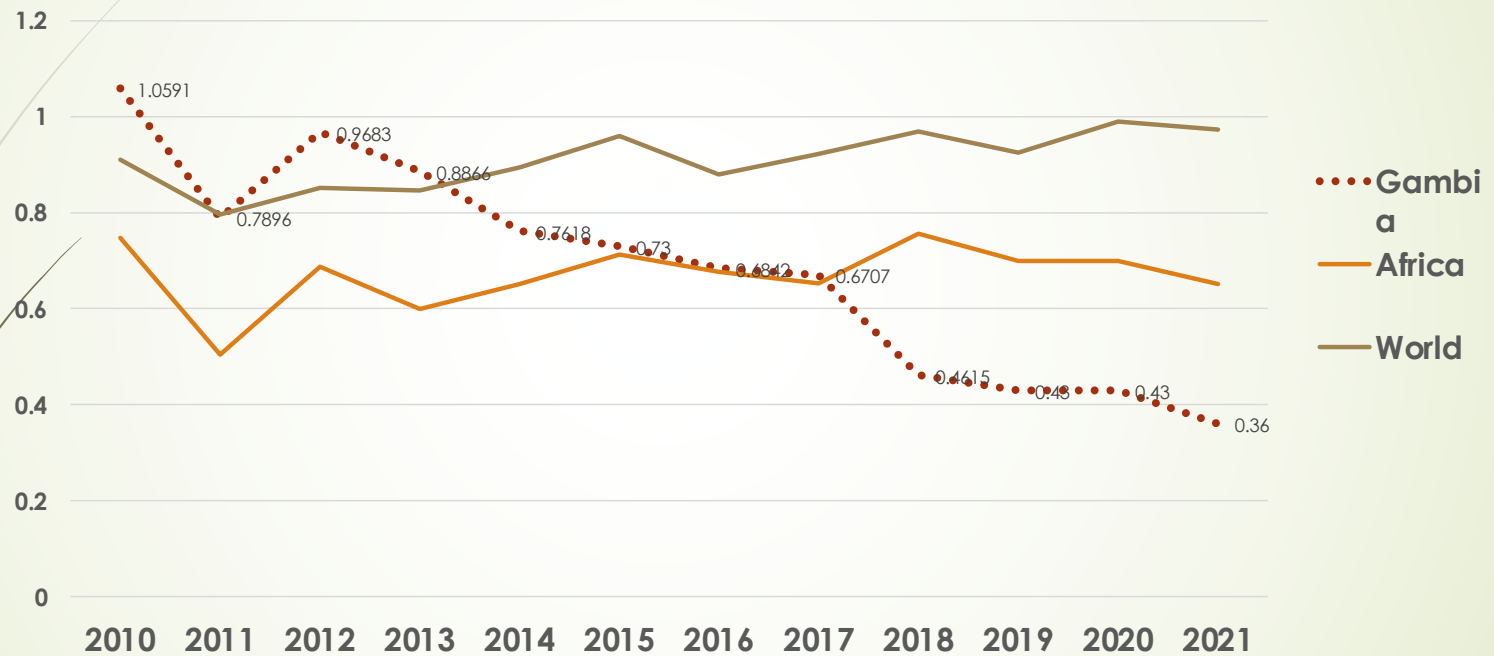
Rice Yield (Metric Ton/Hectare)



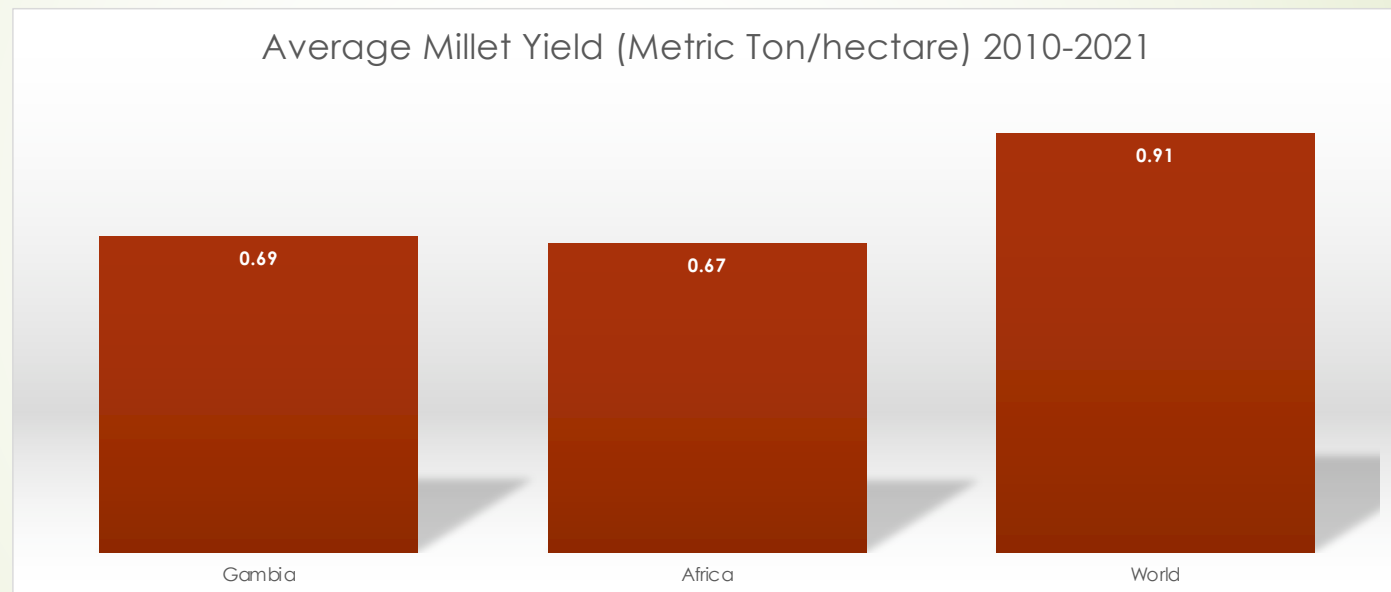
Rice Yield 2010 - 2021



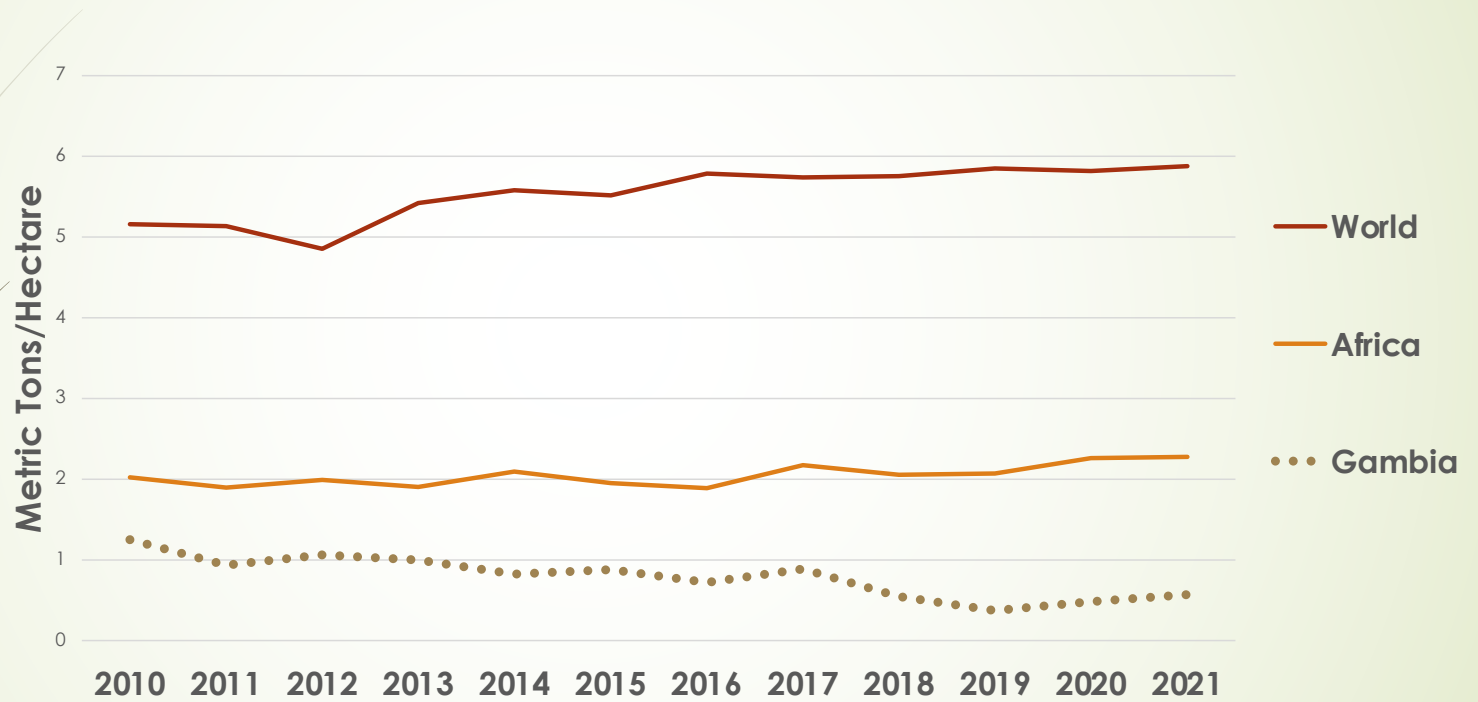
Millet Yield (Metric ton/Hectare)



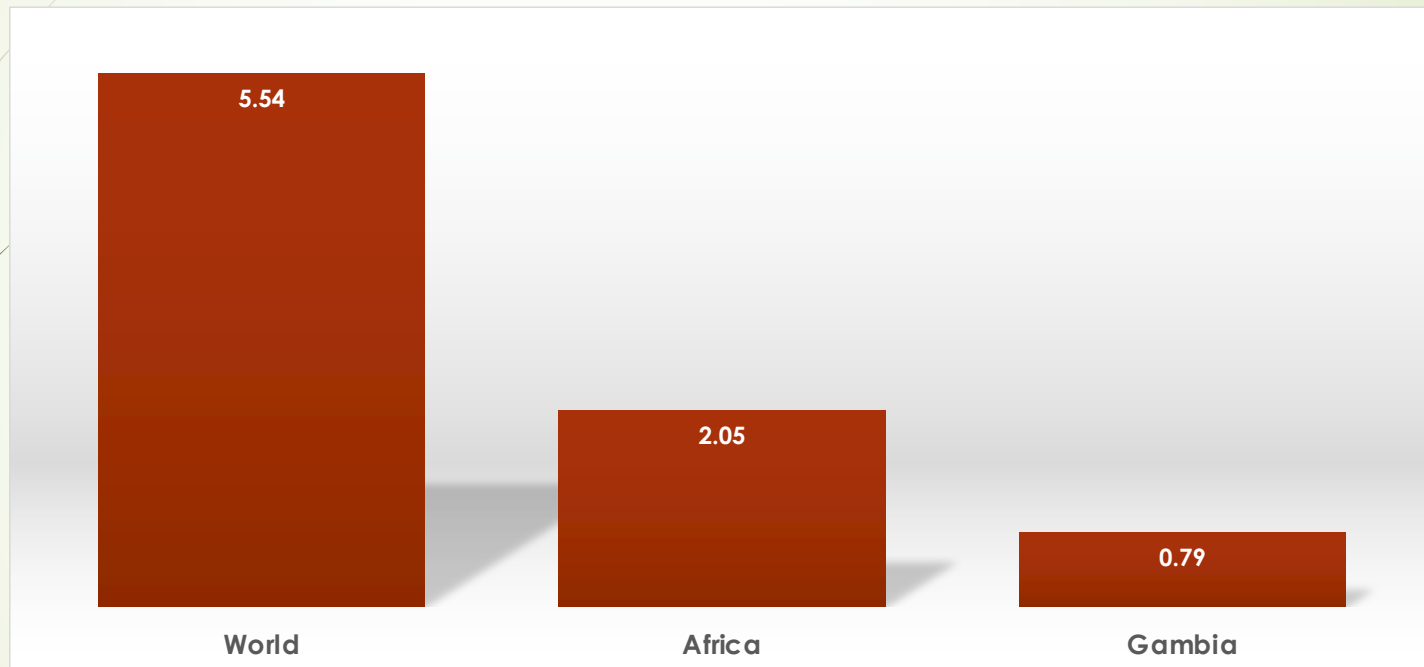
Millet Yield (Metric Ton/Hectare)



Maize Yield (Metric Ton/Hectare)



Average Maize Yield 2010 - 2011





What Determines Agricultural Productivity?

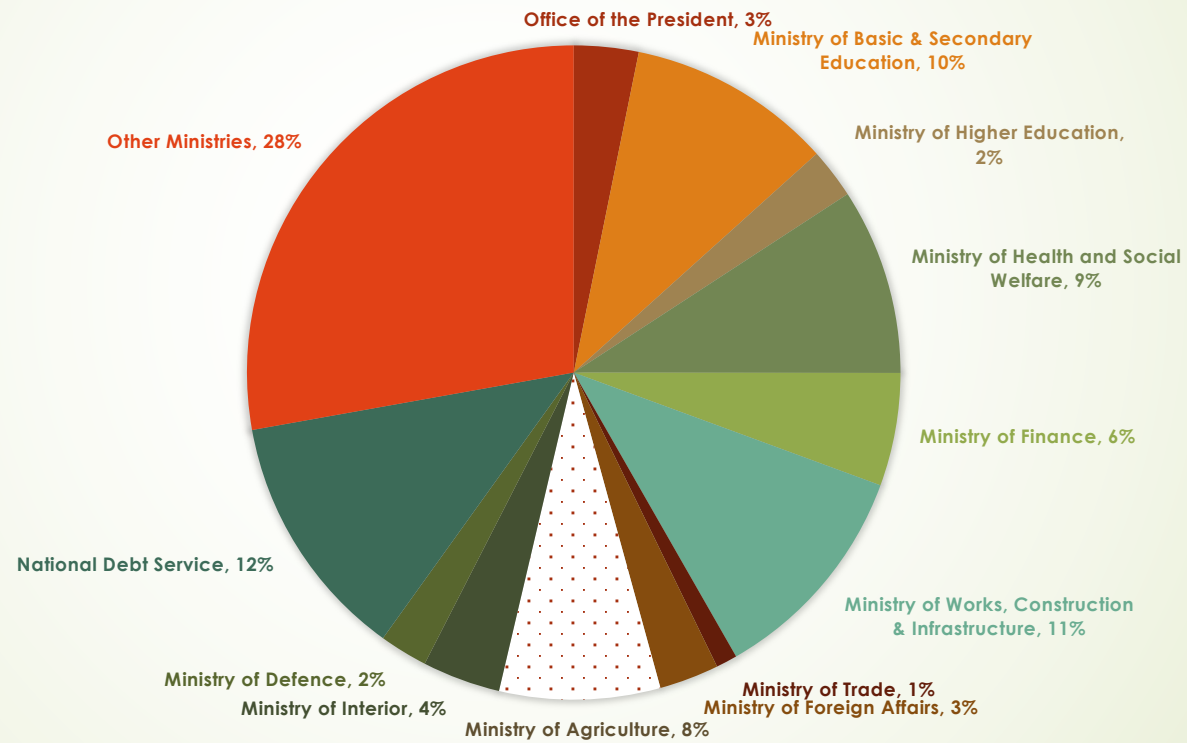
- ▶ Access to appropriate inputs
 - ▶ Seeds, fertilizer, machinery, etc.
- ▶ Access to financing
 - ▶ Loans, guarantees
- ▶ Infrastructure
 - ▶ Irrigation, transportation and storage
- ▶ Extension services



Role of Government

- ▶ Sets Strategy in the Agricultural Sector
- ▶ Prioritizes public expenditure in the sector
- ▶ Determines level of expenditure in the sector
 - ▶ i.e. invest in public goods
- ▶ Address market failures

2023 Sector Budget Allocations



Non-existent Irrigation Investment



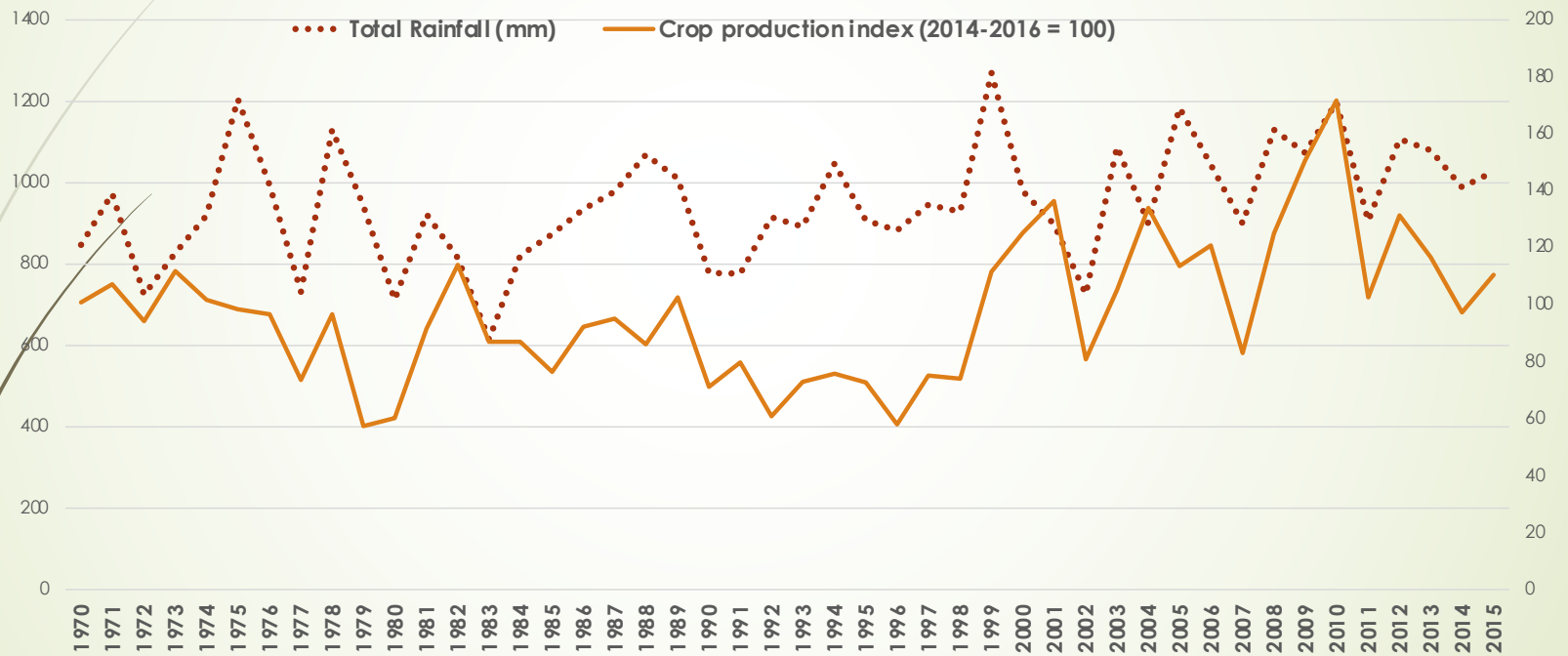
GOVT OF THE GAMBIA

Expenditure Budget Overview by Item

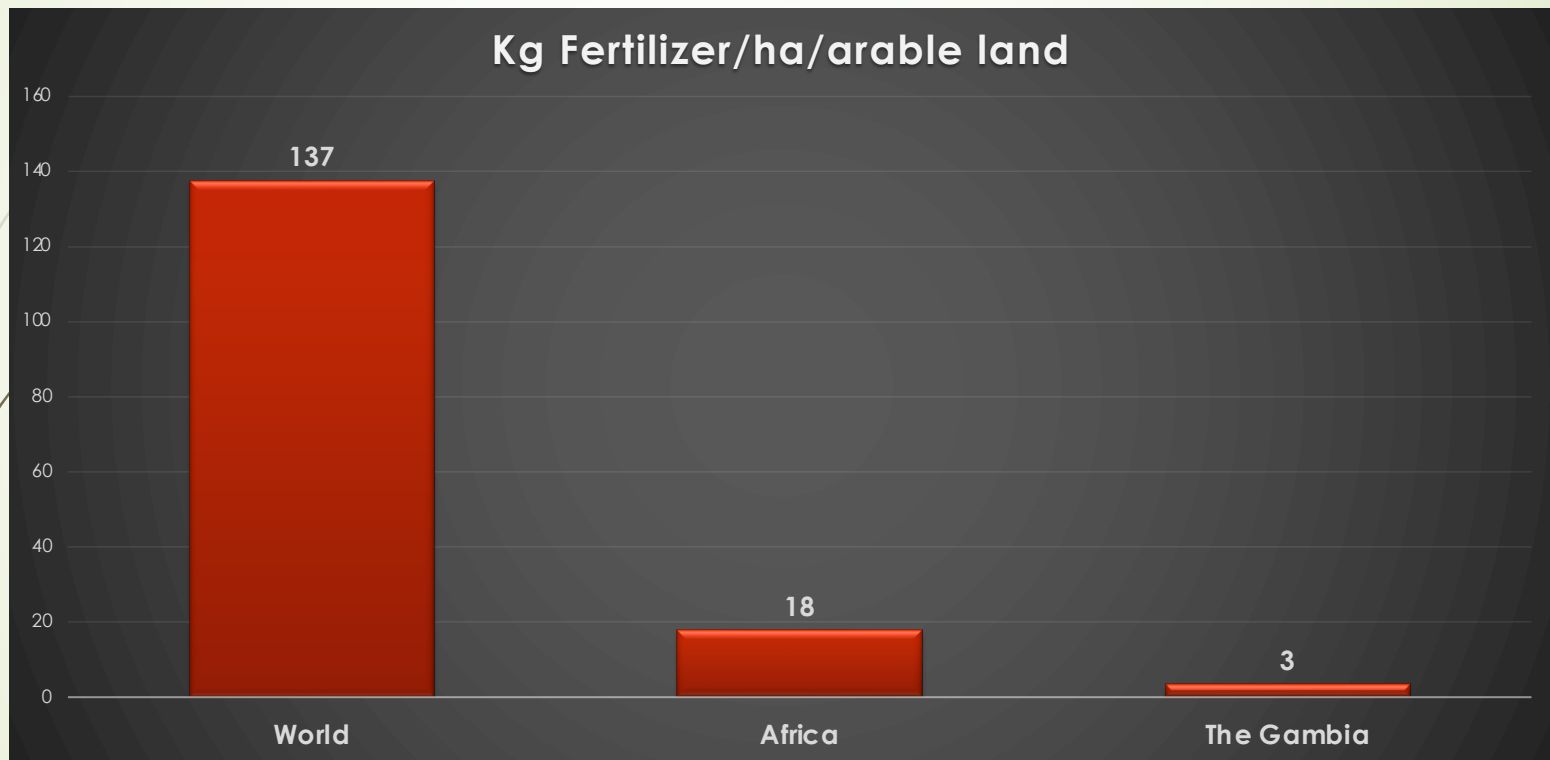
Recurrent & Development Budget - GLF

		Dalasi '000s			
		2020 Actual	2021 Approved	2022 Estimates	%Summar
2821106	Welfare of Gambians/Refugees	1,780	5,805	6,338	1.47%
2821107	Support for Local Human Resource Dev	0	5,000	5,000	1.16%
2821108	Medals and Insignias	74	376	376	0.09%
2821109	School Improvement Grant	184,364	291,984	295,881	68.84%
2821110	Injury Compensation	18,706	0	0	0.00%
CAPITAL		1,532,185	2,416,840	2,978,242	12.57%
31	Consumption of Fixed Capital	1,532,185	2,416,840	2,978,242	
311	Fixed Assets	1,532,185	2,416,840	2,978,242	100.00%
3111202	Government Residences/Quarters	1,500	2,000	29,500	0.99%
3111203	Construction Of Office Buildings	92,315	80,853	126,050	4.23%
3111204	Schools, Laboratories and Facilities	18,710	49,000	59,150	1.99%
3111205	Hospitals, Clinics and Health facilities	671	5,000	5,000	0.17%
3111206	State Houses, Resid, Apartm ,Hotels &	0	500	0	0.00%
3111207	Military Barracks, Facilities and Structures	6,843	10,000	5,000	0.17%
3111210	Telecommunication, Buildings and	99	0	0	0.00%
3111212	Roads and Bridges	1,079,507	1,650,000	1,965,000	65.98%
3111213	Buildings and Structures	79,507	185,067	38,900	1.31%
3111215	Construction Of Chancery	0	66,125	30,000	1.01%
3111301	Wells,Boreholes,Water Points & Reticulation Sys	500	10,500	58,000	1.95%
3111302	Fish Ponds and Water Breeding Facilities	724	2,500	5,000	0.17%
3111401	Land Development	0	0	25,000	0.84%
3111402	Land Levelling and Fencing	75	8,500	3,000	0.10%
3111403	Construct of Irrigation Infrastructure & Land Dev.	0	0	1,000	0.03%
3111404	Demarcation of Community Forest	0	500	600	0.02%
3111404	Vehicles	118,012	50,000	110,612	4.02%

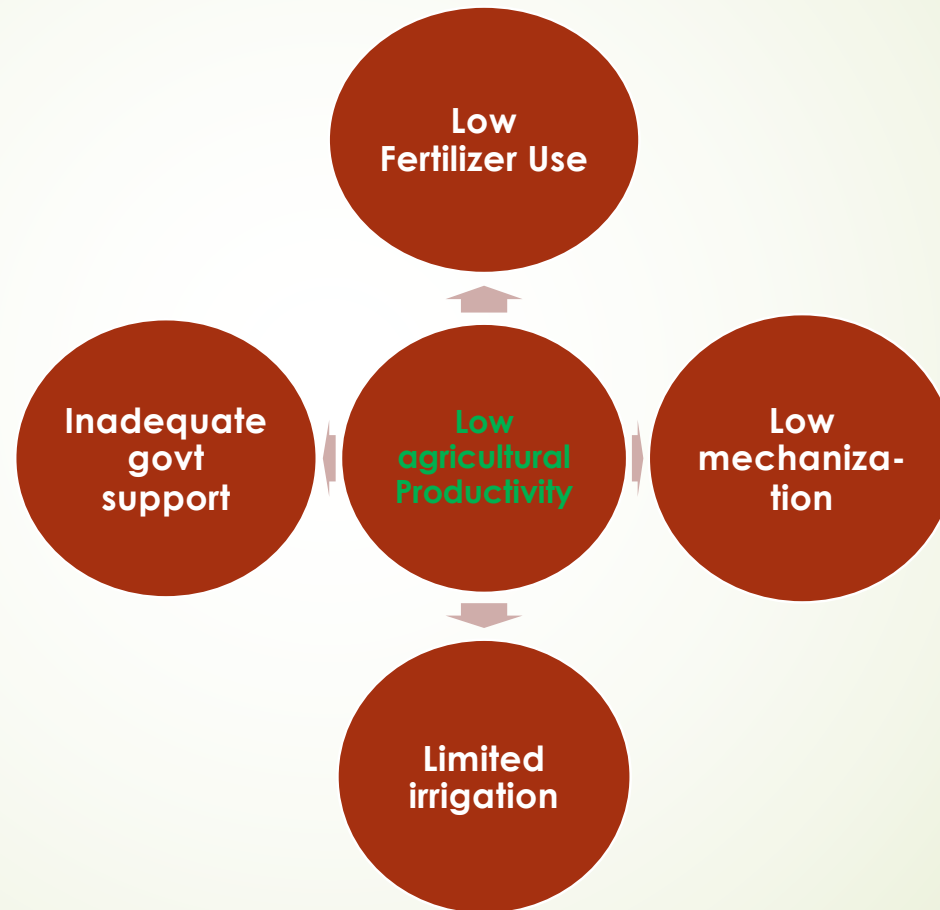
Rainfall Dependent Agriculture



Other Inputs: Fertilizer



Current Picture in The Gambia



Without High Agricultural Productivity...

- The agricultural sector will remain subsistent.
- There will be little processing and therefore no industrialization, or structural change in the economy.
- There will be continued dependence on import.
- There will be continued exposure to external shocks.
- Increasing growth in the volume of imports of food and consumer goods.
- Stagnation of income and persistent of poverty.



Thank You

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