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## DIVERSIFICATION OF FARMING SYSTEMS AND SPECIES IN NIGERIAN AQUACULTURE (CAFFAN PERSPECTIVE)

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AQUACULTURE  
CREATES  
WEALTH



*Welcome to the official  
CAFFAN Facebook Group*



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## ABSTRACT

- The agriculture industry in Nigeria has the potential to generate more revenue than the oil and gas sector if the adequate attention is given at all levels of production by the government, international agencies and relevant stakeholders.
- However, beyond her growth in the catfish industry and rating as the biggest producer of catfish fish in Africa, Nigeria needs to improve on a lot more in order to make aquaculture more lucrative and sustainable.
- The fish farmers yearn for diversification into more species other than the Catfish and Tilapia.
- Post-COVID, the fish farmers are battling with loads of challenges to remain in the business despite doing so much to improve production.



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## INTRODUCTION

- The future of Aquaculture in Nigeria and Africa calls for a deliberate attempt to make it more robust than it is right now, considering food security threat on a global scale.
- What has been done and yet to be done to avert an imminent hunger is of paramount importance as farmers yearn for better diversification in the aquaculture space.





## COMMON CULTURE SYSTEMS

- **EARTHEN PONDS:** Flow-through, partial water exchange and stagnant water.
- **TANKS (SURFACE AND SUB-SURFACE):** Concrete tanks, collapsible tanks, tarpaulin ponds, plastic tanks, fibre tanks, wooden tarpaulin, tanks etc
- **CAGES AND PENS**
- **DAMS**
- **RACEWAYS**





## MAJOR CHALLENGES

- Poor sales and marketing.
- High cost of fish feeds and incessant price increase.
- Poor quality fish feeds.
- Poor quality assessment, regulation and extension personnel.
- Flooding.





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- Poor access roads and logistic challenges of inputs and products.
- Few species of fish to culture.
- Too many Associations.
- Inadequate funding.
- School curriculums and poor research.
- Government policies.



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## POTENTIALS AND SOLUTIONS

- Abundance of culturable fish species: Endemic (indigenous) and exotic fish species.
- Nutrition: Alternative feeds sources.
- Appropriate research and development.
- Generation of employment: Direct and indirect.
- Events and exhibitions.
- Aqua-tourism.
- Population: local and export.





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## CATFISH SALES OUTLOOK



- LIVE (WET)
- SMOKED
- FROZEN
- DEHYDRATE D CATFISH



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## DERIVATIVES FROM CATFISH



- Fish crackers
- Fish kilishi
- Fish cake/ burger
- Fish chin-chin
- Fish bits
- Fish steak (smoked)
- Sticked fish (fish suya)
- Fish balls
- Peppersoup gang



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Fish eggs (plain/ spiced)

Catfish sausage (hotdog)

Catfish pituitary gland (PT)



- Catfish sandwich
- Smoked catfish fillet
- Frozen catfish fillet
- Fried catfish steaks
- Frozen catfish stomach



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- Barbecue
- Fish bones (bone meal)
- Fish guts and visceral
- Catfish spines (ornaments)
- Catfish skin (leather)
- Catfish bile
- Catfish head (cavier)



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## PHOTO GALLERY (LIVE PRODUCE)



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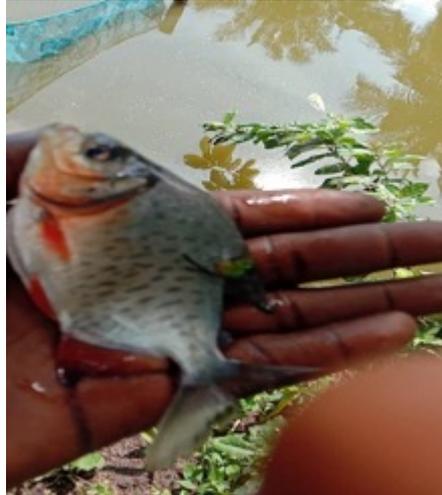
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## LIVE PRODUCE



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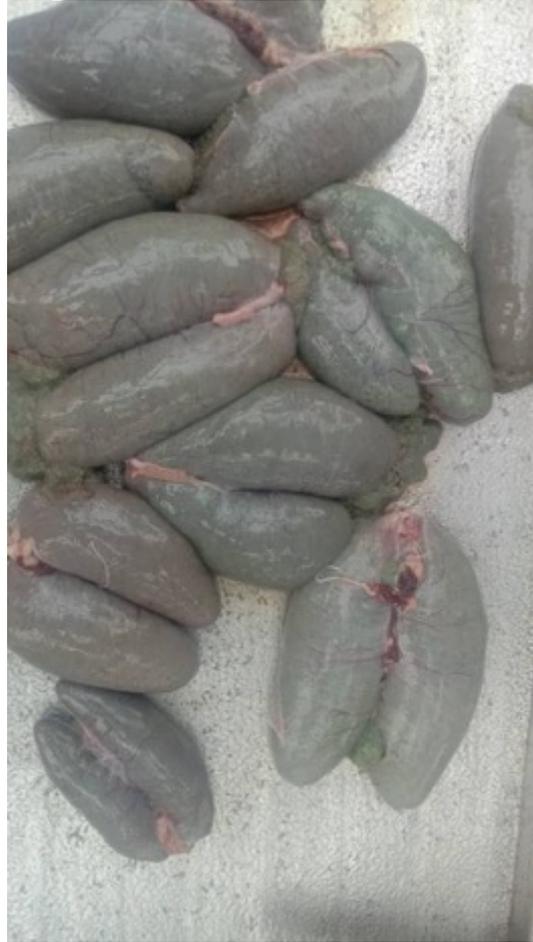
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## By-products



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## CONCLUSION

- If all the latent and **obvious potentials, opportunities** and resources in the fisheries sub-sector are properly harnessed, the aquaculture industry in the Nigeria will enjoy a robust diversification.





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