

#### MINISTRY OF AGRICULTURE, ANIMAL INDUSTRY & FISHERIES, UGANDA

# Overview of Aquaculture in Uganda

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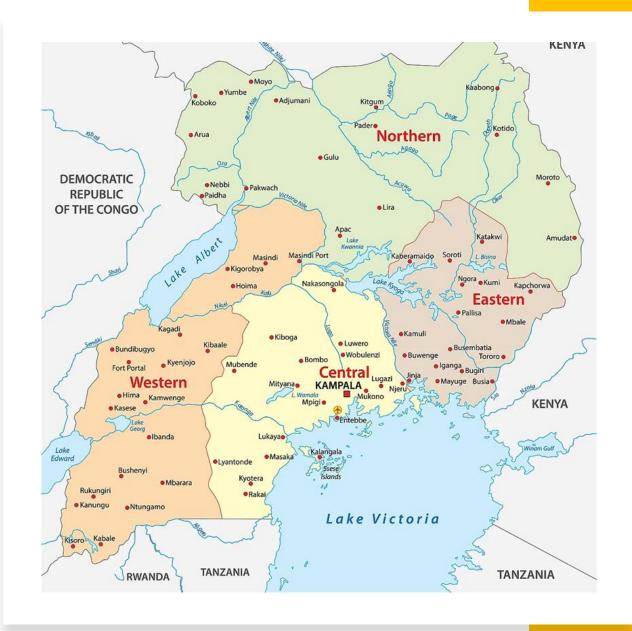
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## About Uganda

- Located in Eastern Africa, alongside Kenya (East), Tanzania (South), DR Congo (West), South Sudan (North) and Rwanda (South-west)
- Total area is 241,000 km2, of which about 20% is freshwater (wetlands, rivers and lakes)
  - 5 major lakes and more than 150 smaller lakes
  - River Nile flows from Lake Victoria in Uganda
- Population is 45 million people (est).





Some of the value chain activities

#### Sector timeline

1940s

Aquaculture started in 1940s largely as a subsistence strategy to address household malnutrition (source of protein) using small ponds (300-500m2)

**Today** 

Production then rose from a few hundred metric tons to ≥ 100,000mt/year today (to be validated thru national survey).

Advent of commercial aquaculture was in the early 2000s through entry of large-scale commercial cage farms on Lake Victoria

Early 2000s

#### **Current status**

- Uganda's fisheries value chain employs about 2.5% of national population
- Contributes 3% to National GDP and 12% to agricultural GDP.
- Annual aquaculture production is ≥100,000 metric tons
- Main farmed species: Nile Tilapia, African Catfish and Mirror carp.

- Main production systems are ponds (on wetlands) and cages (on large water bodies). Tanks are emerging.
- ≥25,000 ponds (average size 500m2) and ≥4000 cages
- Current installed fingerling production capacity is 400 million fingerlings/yr mostly private sector hatcheries.

### National action strategies (on-going and future)

- Long-term policy target is sustainable fisheries production of 1.7m mt/annum
  - 0.7m m/tons from capture fisheries
  - 1m m/tons from aquaculture
- Thus current aquaculture production deficit of 900,000 tons per annum.
- Objective is to increase commercialisation through both small-scale and large scale (semiintensive and intensive) systems, using PPP and VCA.

- Key strategic actions include:
  - i) Development of aquaculture parks and mini-aquaparks on land and water bodies.
  - ii) Promotion of domestic industrial feed sector to reduce import feed costs
  - iii) Improvement of brood stock genetics to raise grow-out fish performance and eco-climatic resilience.

#### Action strategies cont'd

- iv) Improving access to investment finance through various modalities (such as PDM for small holder farmers and Agricultural Credit Facility for large commercial operators).
- v) Strengthening producer organisations (fish farmer groups, associations and cooperative societies) for collective value chain activities.

- vi) Promoting home and exportoriented markets (through customer specific quality assurance certification schemes-eg EU and Hilal) and value addition.
- vii) Strengthening bio-safety/bio-security through systems and diagnostic infrastructure for fish health management.
- viii) Promoting ecological, environmental and social sustainability of the sub-sector.

## Key constraints

The sub-sector still presents overall lower productivity and profitability, affected by:

- i. Under-developed domestic industrial feed segment (≥90% of good quality feed is imported, hence costly and affect C/B ratio)
- ii. Poor seed genetics, slow growth performance esp Tilapia.
- iii. Technology and skill gaps esp in production segment.

- v) Climatic change effects (floods and drought)
- vi) Value chain disjointedness (poor inputs-production-market chain linkages)

#### Anticipated role for ANAF

- Promote inter-African collaboration in technical and technological capacity building, using successful peer mechanisms, esp:
  - Improvement of seed genetics
  - Feed development
  - Bio-safety management
  - Production systems improvement
- Advocate for/support coordinated spatial planning of shared water bodies.
- Advocate for transboundary trade in farmed fish and fish products (removal of unwarranted trade barriers).
- Mobilising area-wide aquaculture development financing modalities.

#### Way forward/Recommendations

To drive aquaculture to its full potential we must focus on the following:

- Increase access to affordable high quality feed and seed.
- Prioritize sustained research and development in feed and seed (domestic feed industry, selective improvement of seed).
- Promote mechanization and technology in production systems (design, construction and operation)
- Strengthen technical knowledge and skills of good aquaculture practices
- Ensure robust bio-safety/fish health management.
- Promote sustainable market access mechanisms
  - a. Quality management, SPS compliance and international certification
  - b. Processing and value addition
  - c. Market promotion activities (domestic/export)
- Public sector should play catalytic roles, with Private sector as leaders in scaling-up investments.



Thank You!