

Annual Report 2021

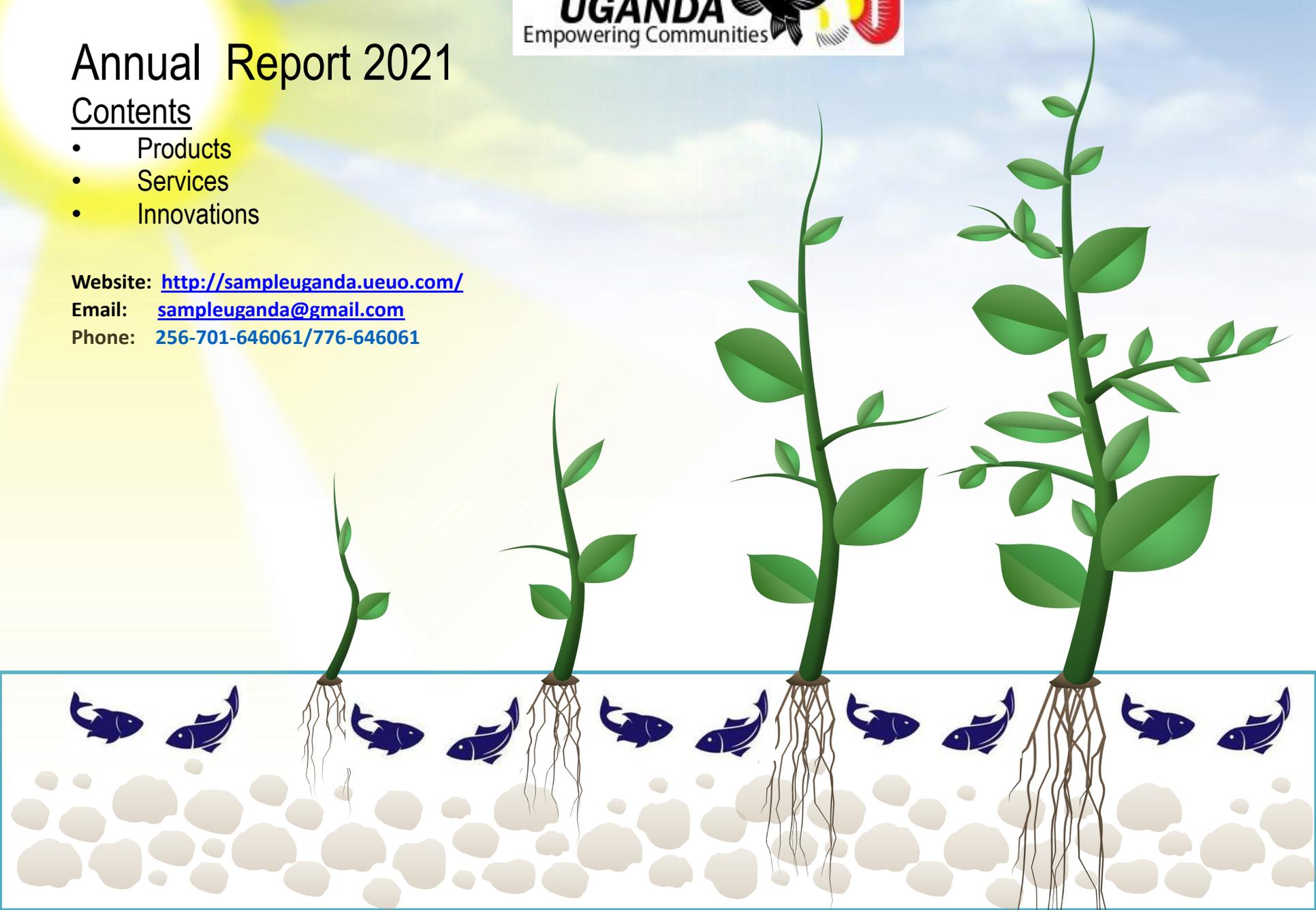
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ADMIRE

AQUAPONICS



ADAPTATION FUND

Climate 
Innovation
Accelerator

SMALL GRANTS. BIG IMPACT.



With technical support from



ADAPTATION FUND

and

**SAMPLE
UGANDA**

Empowering Communities



Implementing Partner : SAMPLE Uganda Aquaculture Association

Director : Michael Kintu

Country: Uganda (East Africa)

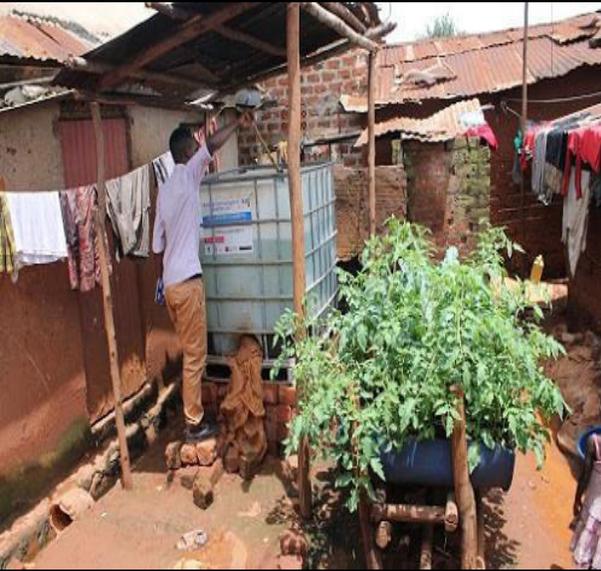
Overview: Aquaponics Technology Distribution for Multiple Integrated Resiliencies and Empowerment (ADMIRE) Project addressing climate change induced disturbances including precipitation pattern changes which ultimately leads to reduced water availability, resulting into reduced agricultural productivity, and food price spikes.

Innovation focus: Lease-to-own model for Aquaponics Technology with linkage to credit & market via the Ugandan Parish SACCO Development Model

Impact: Great scale-up potential, focus on low income communities and women, good climate resilience building potential (6000 direct beneficiaries -60% women; 90,000 indirect community members who have acquired knowledge and skills on adaptation.

ADMIRE Primary Target

The 'Critically Food Insecure' – a poor household with no alternative to food security coping mechanisms, and has an annual income of typically \$300-\$600. The family is likely to live in a mud hut or concrete home with two rooms in which the family eats, and sleeps. **The Critically Food Insecure** purchase the ADMIRE Kit to provide insurance in times of food scarcity



ADMIRE Secondary Target

The 'Food Security Guarantor Segment'; having a higher disposable income, who purchases the ADMIRE Kit for business or charity purposes



ADMIRE Gender Focus

Every Effort is made to ensure that women are the primary beneficiaries of the increased productivity brought by the ADMIRE systems as producers & entrepreneurs



ADMIRE Affordable Water Pump

We have designed the ADMIRE manually operated hand water pump for recirculating water from the Fish Tank to the grow bed and back to Fish Tank -that does not use electricity. At cost of between US\$20-US\$25, the ADMIRE pump cuts down the upfront total cost of installing the ADMIRE micro-systems by over 50% -when installed using an electrical pump and by over 80% reduction when installed using solar pump with panels.

See short video here <https://bit.ly/3x1b5ru>



Project Preparatory Activities

A few examples of the Initial Project Activities



ADMIRE Nursery Seed Propagation Enterprises

Preparation of Affordable Grow Beds Using Plastic Waste for ADMIRE Farmers

Sample Uganda Fish Hatching for Sustainable Supplies of Fingerlings to the ADMIRE Farmers

Sample Uganda Black Soldier Fry Rearing to Supply Affordable Fish Feed Proteins to the ADMIRE Farmers





Leading to Multiple Integrated Resiliencies & Empowerment



Quality Fish Seed

Quality Nursery Plant Seed

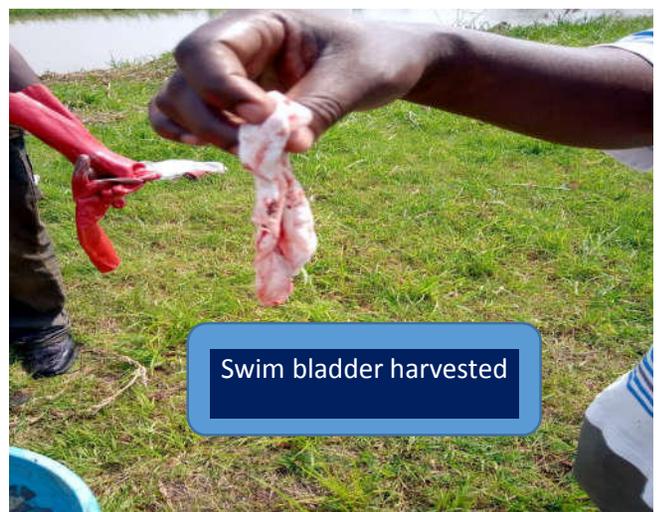
Affordable Gender Inclusive Manual Water Pump/Grow Bed Technology



The Ugandan Game Changing Aquaculture: Nile Perch Pond Domesticated Farming

For Details : Contact SAMPLE Uganda Fish Farm , Nkumba University Close (Bwaise Trading Center):0706584983: Email: sampleuganda@gmail.com

Results from A Six-Month Domesticated Farming Trial of Nile Perch -Capitaine Mputa (Fry placed in Ponds) by the SAMPLE Uganda Fish Farm Aqua Researchers - indicates that Nile Perch Domesticated Farming is possible in Ponds- with promising Economic and Ecological benefits including-by-product harvesting of Swim Bladder (*Locally known as Enumi*) and an overwhelming Reproduction Rates.



Annual Report 2021- Major highlights

Activity	Brief Annual Activity Narration	Images
Fry and Fingerlings Harvesting	<p>Using the current Hatching and harvesting systems, Sample Uganda has Hatched, Harvested & Distributed over 42.7 million Catfish and Tilapia fry and fingerlings across East & Central Africa.</p>	
Innovations	<p>Sample Uganda has researched and developed Eco-friendly, affordable and cost effective fish demand feeders made of plastics. These fish feeders allow the fish to feed when they feel hungry in a particular location, thus cutting down on costs of casual laborers to feed the fish. In addition, SAMPLE Uganda has developed simple plastic cage net sinkers, and baby cage nets shown below.</p>	
Partnership	<p>Sample Uganda has established a working partnership with the US-based Sun Oven International Inc for incubation and distribution of Solar Ovens in Uganda to sun dry fish and cook other food. The Villager Sun Oven is mounted on wheeled trailer that can move it to remote communities by a vehicle, with additional capacity to prepare meals, including beans, bake bread, dry fish, fruits, vegetables and other perishables, which is a considerable value addition for women entrepreneurs. It comes equipped with a Propane Gas backup system, which allows it to be utilized at night or during the rainy season.</p>	<p style="text-align: center;">The Villager Sun Oven, deployed and folded</p>

		 <p>Fish meal Preparations Using the Sun Oven by Trained Entrepreneur</p>
Website	Sample Uganda is present online via this website:	 http://sampleuganda.ueuo.com/
Maggot farming	<p>Sample Uganda has started on the process of Black Fry (Maggot) Farming, as an alternative of the fish feed protein ingredient. The relevant equipment & basic facilities are in place, and work has started.</p>  	 
Fundraising	<p>Working in close collaboration with the US-based University of Rhodes Island, Sample Uganda has developed and submitted a funding proposal (US\$20 million) to USAID, aimed at introducing an Aquaculture Park business model on the Ugandan Lakes, Large River Streams, and Ponds, which is a unique concept similar to an industrial estate.</p> <p>Based on the Model of Mariculture Parks in Philippines, Aquaculture parks in Uganda will be areas on Uganda's water bodies that are similar to industrial parks or estates on land where the appropriate infrastructure such as roads, other facilities, and support services are provided to attract entrepreneurs/investors. Funding Alert/Notice delayed because of the Covid19 pandemic crisis.</p>	 

<p>School Incubator</p>	<p>Sample Uganda particularly targets Students through its HOPE Incubator to create the Next generation of fish farmers to get a first foot on the ladder of becoming fully fledged Aqua Farmers and Aquapreneurs with an ability to generate an income for themselves and their families via modern fish farming(Aquaculture).</p>	 
<p>Products and Systems</p>	<p>Sample Uganda has in stock Gold fish for Aquariums, Cage Nets, pH Water Monitoring Tools, Thermometer, Fish Polyphone Transport air bags and pumps, scoor nets, powder feeds ,& Hatching systems</p>	  
<p>Land</p>	<p>Sample Uganda has expanded via a 2-piece acre of land which is currently used for a new innovation related to the Nile Perch domesticated Farming. Research is on-going- including exploring the possibility of Nile Perch farming in fish cage nets.</p>	 

Future Plans

- **Increased Engagement** with all relevant stakeholders (local, national and international) for the wide-spread dissemination of simple and affordable technologies to help scale-up Ugandan Aquaculture
- **Aggressive Advertisement** in the mass, print and social media to make the Sample Uganda fish farm presence positively felt in Uganda at the local, national and international levels.
- **Resource mobilization** for business expansion with social benefits particularly among the vulnerable fishing communities.