## **GIFT** "Genetically Improved Farmed Tilapia": All Male Tilapia **WorldFis Fingerlings with Greater Yield** WorldFish and Uniformity Bernadette Fregene Greater yield and uniformity in tilapia farming Technology from The technology involves predominantly growing male tilapia. This can be ProPAS achieved through various methods such as manual selection, hormone treatment, Commodities or natural techniques. Specifically bred tilapia (GIFT) is recommended for commercial farming. Fish Scaling readiness: idea maturity 8/9; level of use 8/9 This technology is **<u>TAAT1 validated</u>**. **~**) 8.8 Sustainable Development Goals Gender assessment 47 4 Climate impact Problem Solution Categories · Mixed-sex tilapia culturing often leads to lower • Utilizing improved lines of tilapia breeds can Production, Improved varieties yields and non-uniform harvests. enhance the effectiveness of manual selection, Yield improvement • Manual sex selection at the beginning of the hormonal treatment, YY male technology, and production cycle is time-consuming. GIFT. Best used with • Hormonal alteration of fry involves the application • Crossbreeding strategies can produce 100% male <u>Hapa Nets for Fingerling</u> > of α-Methyltestosterone, which may pose concerns offspring, improving mono-sex tilapia production regarding its use in feed and its impact on fish efficiency. Tested/adopted in health and the environment. • Careful management of brood stock selection in hatcheries, focusing on younger brooders free from wounds and parasites, ensures high-quality and abundant fish seed production. Tested & adopted Ad opted Tested Key points to design your project Testing ongoin The mono-sex male tilapia technology aligns with Sustainable Development Goals, promoting food security, Where it can be used gender equality, climate action, and marine life preservation. To integrate this technology, consider: This technology can be used in the colored agro-ecological zones Feasibility studies, • Legal frameworks, and specialized training for farmers. Training costs and · Communication support should be included. • Accompanying solutions include Hapa Nets for Mass Fingerling Hatchery Production. (Cost: \$\$\$) **100** USD ROI: \$\$\$ 30 % Stocking rate of 1,000 fish per cubic meter of water Harvest volume increased Target groups 300 - 900 g $O_{IP}$ 0.1 USD Breeders Cost of one month mono-sex Weight of male fingerlings stocked in Patent granted fingerlings in Kenya cages in 5 to 8 months of culture GIFT "Genetically Improved Farmed Tilapia" Enquiries e-catalogs@taat.africa https://taat.africa/lhg Last updated on 11 December 2024, printed on 15 May 2025