

BIG BENEFITS FROM SELECTIVELY BRED FISH



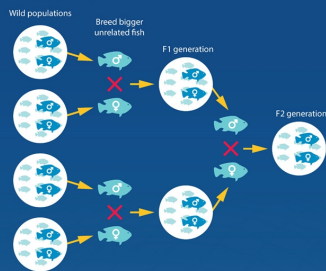
“Fish is crucial to any debate and action to reduce poverty and improve food security and nutrition”
High Level Panel of Experts (HLPE), UN Committee on World Food Security (CFS)

2X Increase in demand for animal-derived protein by 2050

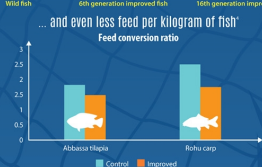
Genetic improvement has been used for millennia on crops and livestock. Until the 1900s little work had been done with fish. **80%** of aquaculture production still uses young fish from the wild.



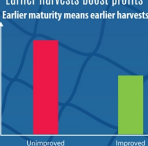
Bringing the power of selective breeding to fish



Selective breeding brings rapid, sustainable gains
Faster growth...



Earlier harvests boost profits



WorldFish selective breeding program

New tools mean new targets, faster outcomes
Advanced molecular genetics and genetic tools being developed by WorldFish and its partners accelerate genetic gain and allow new traits to be incorporated in fish breeding programs.

- Greater **resilience** to pathogens and environments
- Increased **disease resistance**
- Increased **metabolic efficiency**

Focus on omnivorous species reduces pressure on wild fish populations for feed



Species improved



• Tilapia (Red, OBT strains), Eilat (Abasus strain), Ghana (Mozambique strain), Mozambique (Zambia strain), Zambia (Zambia strain)
• Rohu carp in Bangladesh and India

People's stories

Profit margin increased from **12% to 20%**
“Last year my production using the common strain was around 0.5 metric tons per hectare, while this year the production of the Abasus strain reached 2.1 metric tons per hectare.”
— Mohamed Gamal, fish farmer, Egypt

Yield increased by **20%**
“I used to produce four tons of tilapia. But now, after using the Abasus strain, the total production of my ponds is about five tons.”
— Hamada Refaat Attia, fish farmer, Egypt

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Funded by the European Union and IFAD Investing in rural people

Partners:

National breeding programs:

Global Aquaculture Center and WorldFish