

GIFT tilapia - new Technologies in Aquaculture John Benzie, WorldFish

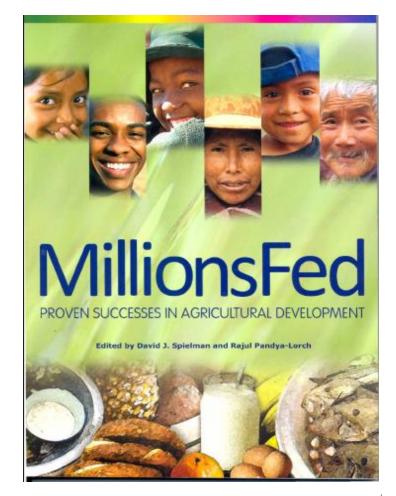


RESEARCH PROGRAM ON Fish



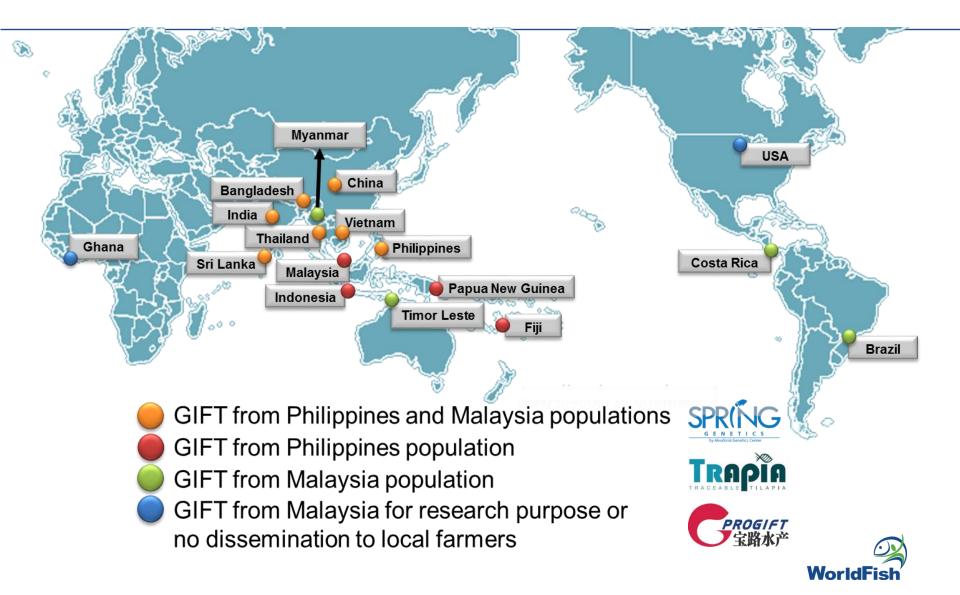
WorldFish: Genetically Improved Farmed Tilapia (GIFT)

- Grows 50 to 80% faster, high survival
- *GIFT-technology* used in other regions
- 'GIFT-technology' thought to underpin 50% of world tilapia production
- Tilapia most farmed fish globally after Chinese carps





GIFT technology dissemination



Present and future focus

- Creating a step change in performance
- Latest technologies
 - Genomic selection
- New resilience traits
 - Improved health
 - Growth under stress
 - Feed efficiency
- Global impact





SDGs



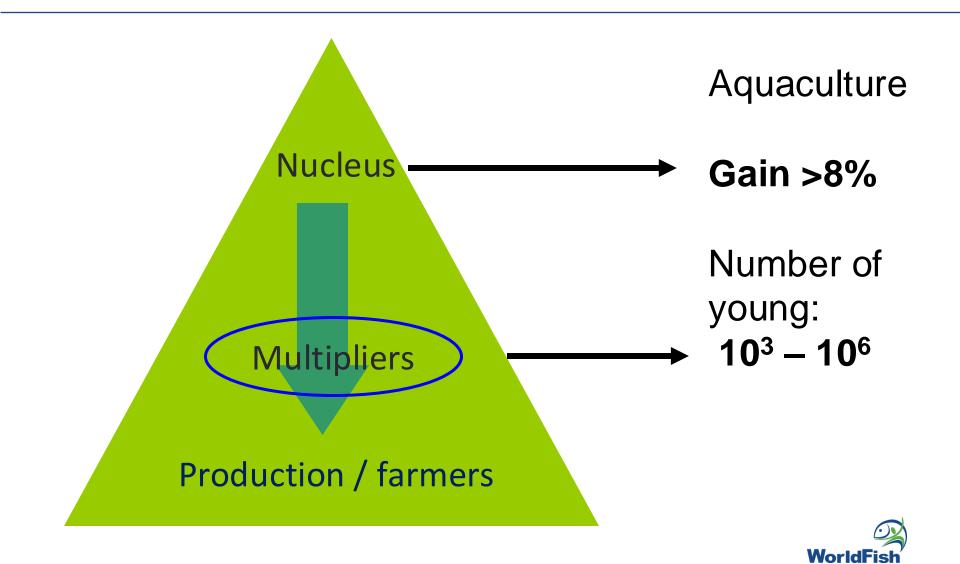


Large potential cost savings and reduced environmental impact

- Faster growth allows more flexibility in farming;
 - Quicker return in investment
 - Greater range of market product
 - Production in a shorter season (resulting from environmental change; rainfall or salinity)
- New tools to select for improved feed conversion ratio (FCR) has potential to
 - Reduce feed costs, increases farm sustainability
 - Reduce environmental impact

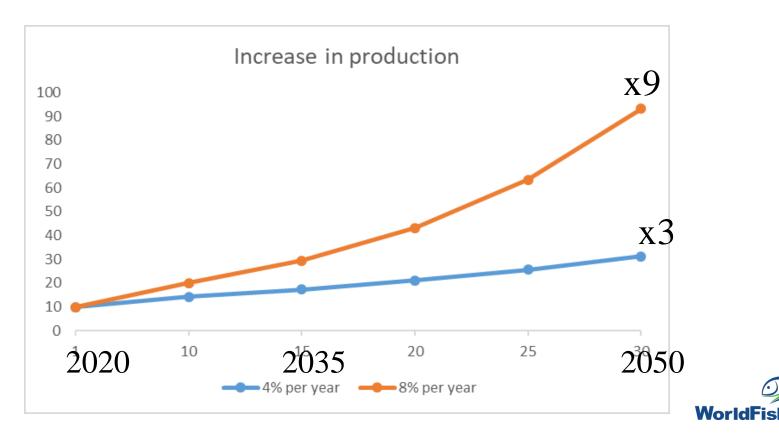


Selective breeding essential



Meeting goals requires a holistic approach

Doubling production by 2050- the genetics is there-Is the connectivity and investment?



THANK YOU