FISH is a collaborative global partnership to sustainably improve the productivity of aquaculture and fisheries and enhance the contribution of fish to global development goals.

The program comprises two ‘flagships’ focused on the interlinked challenges of sustainable production from aquaculture and small-scale fisheries, with the cross-cutting themes of gender, youth and capacity development, in focal and scaling countries.

**Overall goal**

By 2022, 2.5 million farm households will have adopted disease-detection and control strategies, cost-effective and sustainable aquafeeds, and/or improved aquaculture management practices.

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**1. Fish breeds and genetics**

Research on fish feeds and nutrition will lead to the use of locally-available novel ingredients to develop sustainable aquafeeds, supporting the growth of aquaculture in Africa and Asia. To achieve this, research focuses on four main areas:

1. **Sustainable ingredients**: survey and selection of novel ingredients; lab analyses; digestibility tests; feed formulation; establishment and management of ingredient databases.
2. **Nutrient requirements of fish**: requirements of improved strains; feed intake and utilization in mono- and polyculture; feeding frequency; nutritious pond technology.
3. **Nutrient efficiency and management of the system**: environmental impact of tilapia farming by selecting different feed ingredients.
4. **Feed for health**: feed additives.

By 2022, novel sustainable ingredients will be identified and used in the FISH countries, and supported by tools such as online ingredient databases that allow feed mills to formulate sustainable feeds with local ingredients.

By 2022, novel feeds and feeding strategies will be available and utilized to improve the production of tilapia and carps in focal countries.

By 2022, a model to analyze the nutrient and production efficiencies of tilapia will be validated and tested for other fish species; farmers will have adopted better management practices related to feeds in focal countries.

By 2022, feed additives that reduce disease incidence will be incorporated in commercial feeds in focal countries.

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**Sustainable aquaculture flagship**

Focuses on enhancing the contribution of fish farming to livelihoods, without creating adverse socioeconomic or environmental impacts.

Capitalizing on synergies within the broader portfolio and working collaboratively with multiple research and delivery partners, conducts research in three clusters:

1. **1. Fish breeds and genetics**
2. **2. Feeds, fish nutrition and health**
3. **3. Aquaculture systems**

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*WorldFish leads the six-year (2017–2022)*