

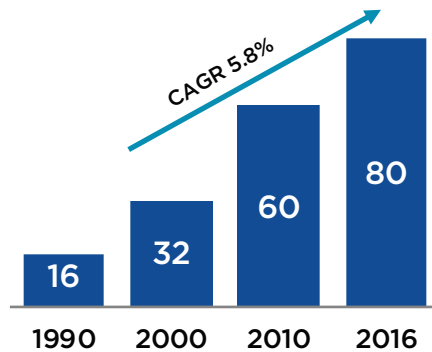
Global Aquaculture: Value and Growth in 2018



Global aquaculture production is growing at a CAGR of 5.8% and is expected to continue. New aquafeeds and other scarce inputs are required to fuel this growth. In 2016, feed production reached 39.9 million tonnes (equal to 50% of food fish volume).

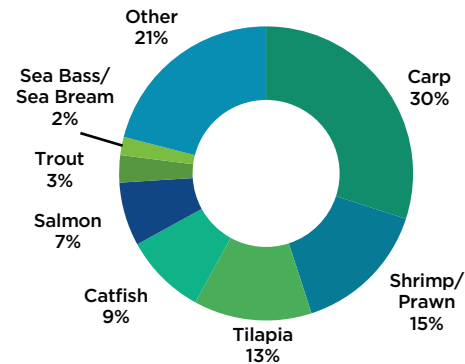
FOOD FISH PRODUCTION

MILLION TONNES
Source: FAO, 2018



AQUAFEED USAGE BY SPECIES

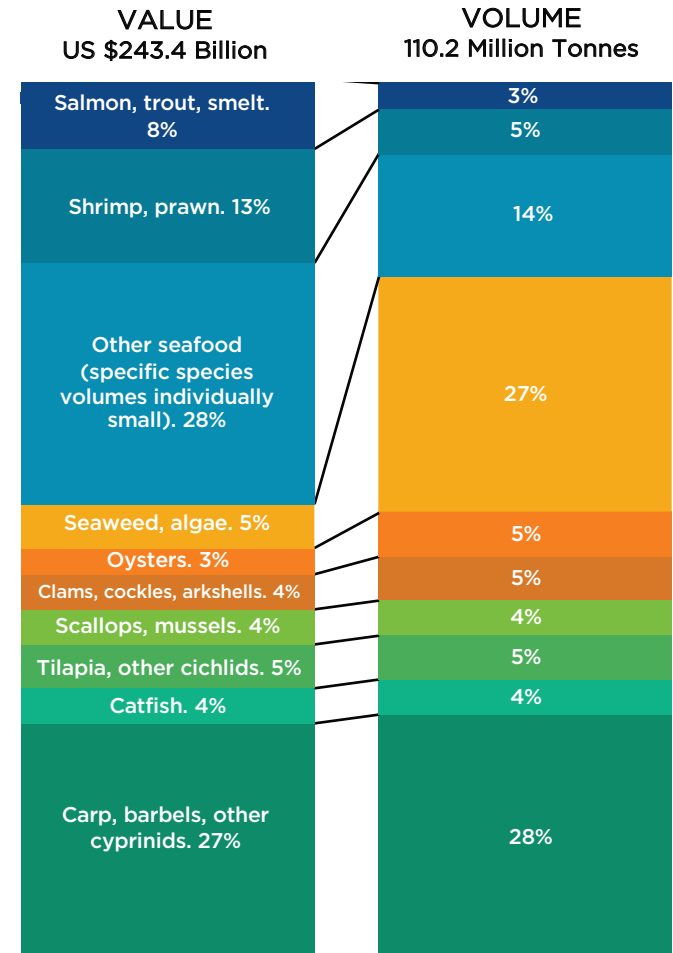
Source: Alltech Global Survey 2018



Value can be improved for many farmed species

2016 SEAFOOD PRODUCTION BY AQUACULTURE

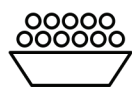
Source: FAO, Rabobank 2018



For aquaculture growth to be sustainable, innovations and technology development are needed to resolve current pain points. Efforts should aim to:

- **Improve nutritional profiles of fish feeds:** For aquaculture to take pressure off wild fisheries, the volume of fish used in feed should be less than fish produced.
- **Turn fish farms into Alcatraz (“Aquatraz”):** Wild fish populations can be endangered by escapes, so equipment and system design must limit this risk.
- **Improve fish health the natural way:** Reduced use of antibiotics and chemicals, and higher immunity through nutrition, will improve yields, profits, and sustainability.
- **Make aquaculture cleaner:** Rivers, bays, and farmland should not be polluted by farming operations and effluents could be upcycled into other products.
- **Improve energy and water efficiency in production systems.**

WHERE TO INVEST IN AQUACULTURE



Feed



Management



Health



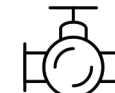
Water Quality



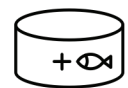
Genetics



Technology/data



Equipment for
Production Systems



Aquaculture Farms