

GLOBAL TRENDS IN SEAFOOD DEMAND, SUPPLY, TRADE AND PRICES

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Outline

- Overview
- Production
- Utilization
- Consumption
- Trade
- Prices
- Outlook





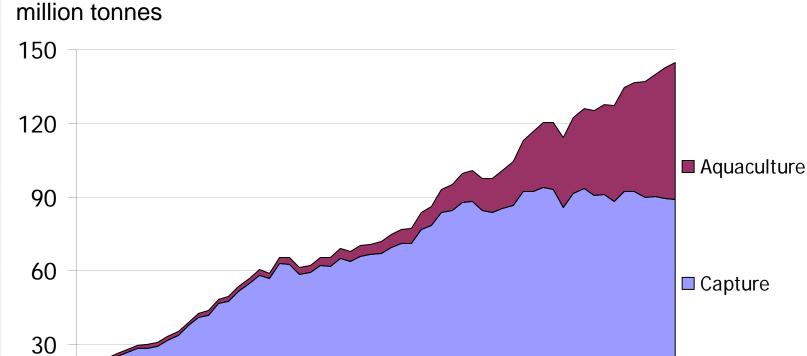
Overview: last two decade

- Increase in global aquaculture production
- Rising demand for fish and fishery products
- Growth in world trade of fish and fishery products
- Global call for responsible management





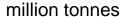
World fishery production

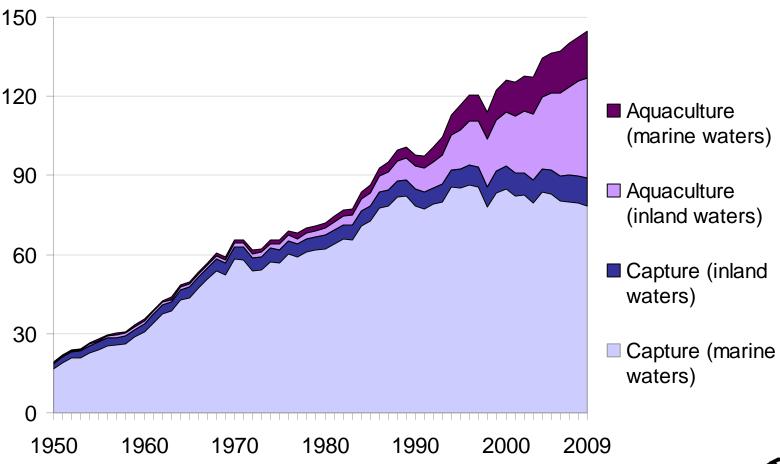






World fishery production









World fishery production

million tonnes

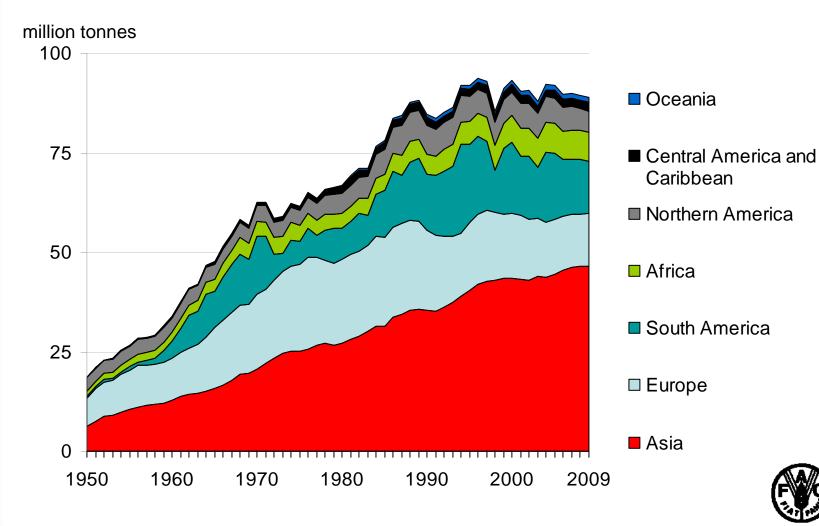
| | 2009 | 2010 e | 2011f | 2011/ |
|-------------|-------|---------------|-------|-------|
| | | | | 2010 |
| Production | 144.6 | 145.1 | 149.0 | 2.7% |
| Capture | 88.9 | 87.0 | 88.5 | 1.8% |
| Aquaculture | 55.7 | 58.1 | 60.4 | 4.0% |

e: estimation; f: forecast



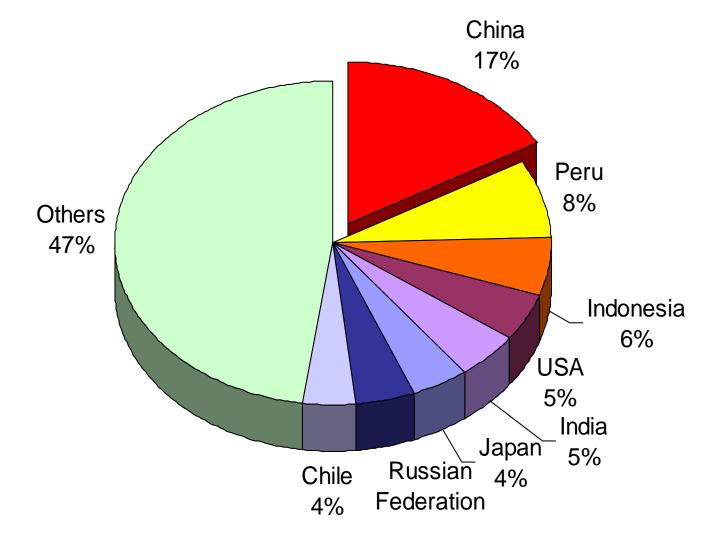


Capture fishery production by continent/region





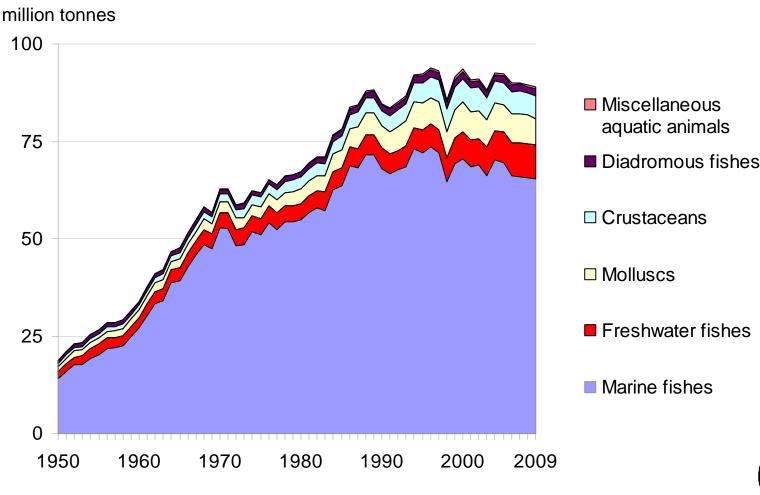
2009 Capture: top producers







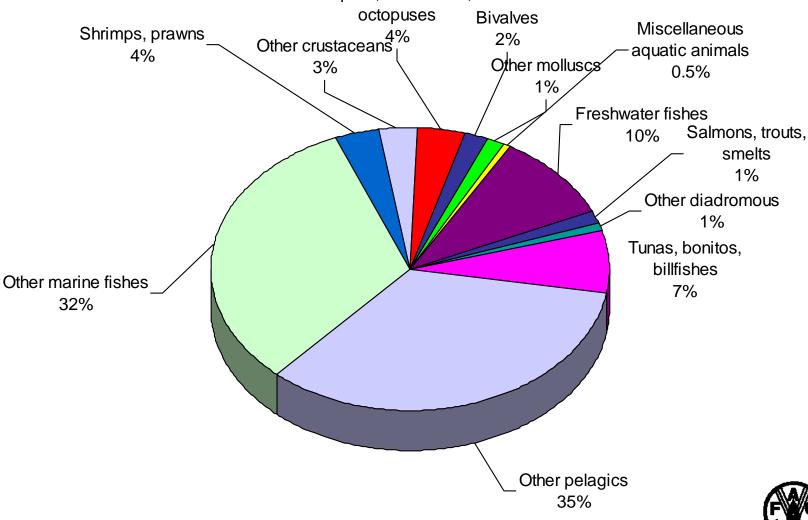
Capture fishery production by ISSCAAP division







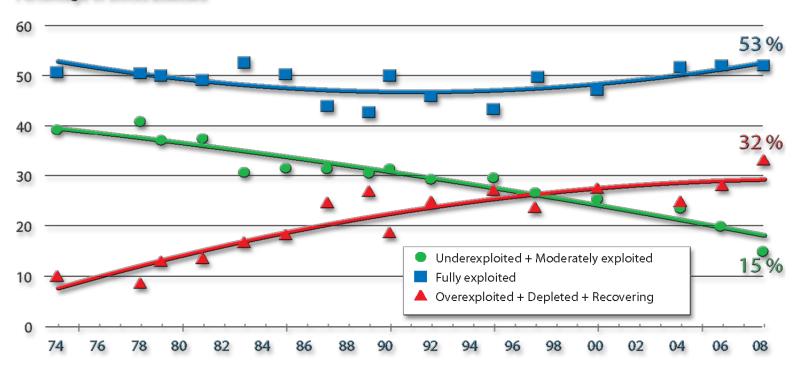
2009 Capture by species groups Squids, cuttlefishes,





Global trends in the status of marine stocks

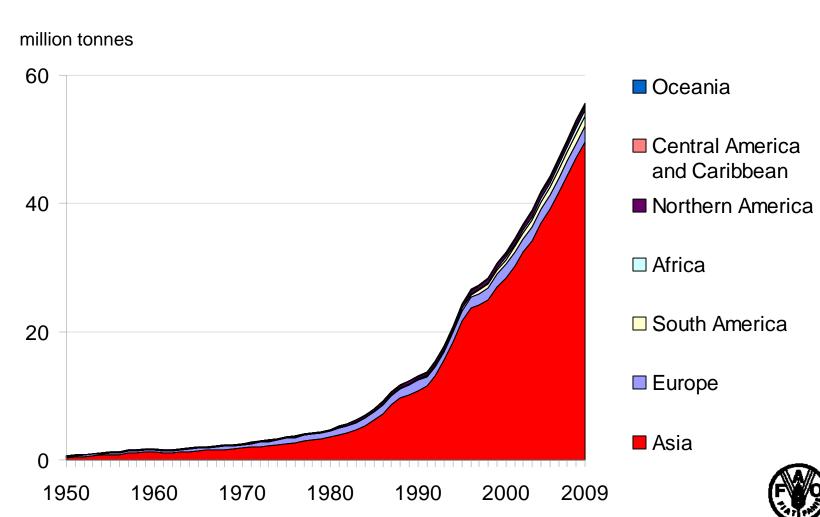
Percentage of stocks assessed





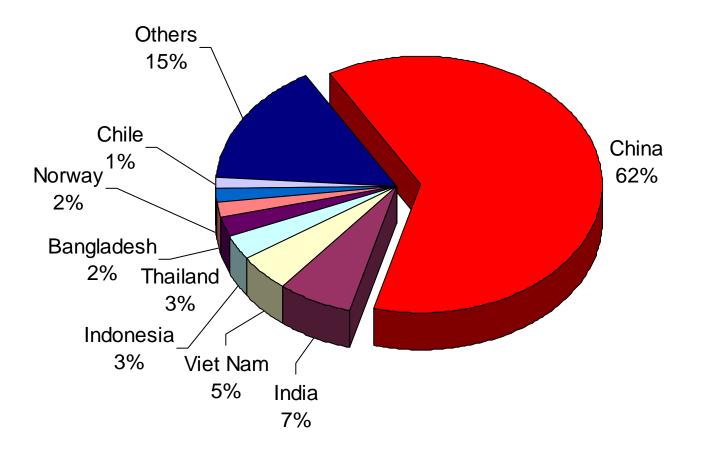


Aquaculture production by continent/region





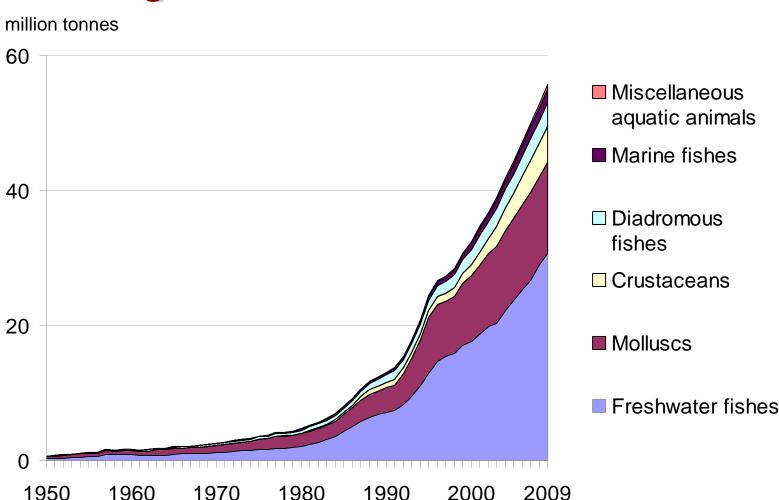
2009 Aquaculture: top producers







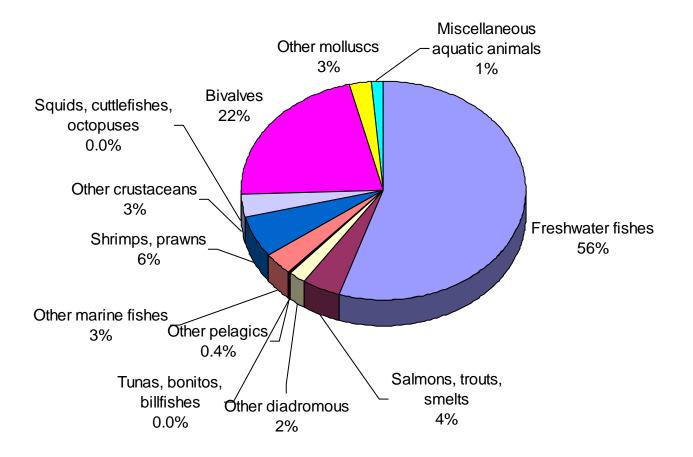
Aquaculture production by ISSCAAP division







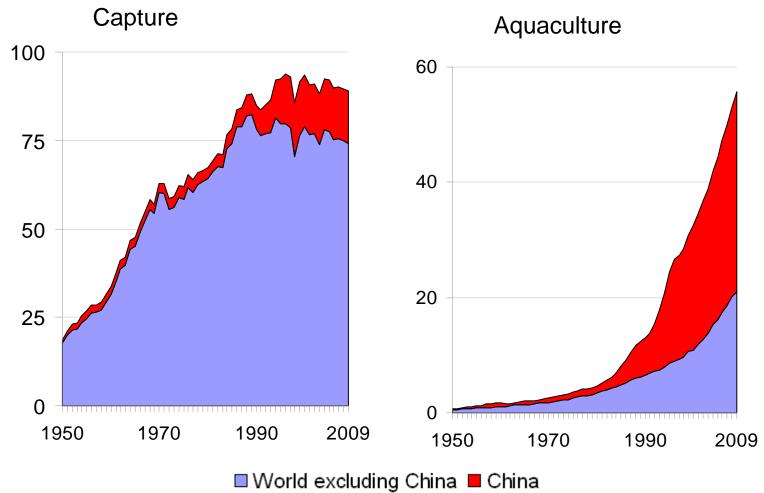
2009 Aquaculture by species groups







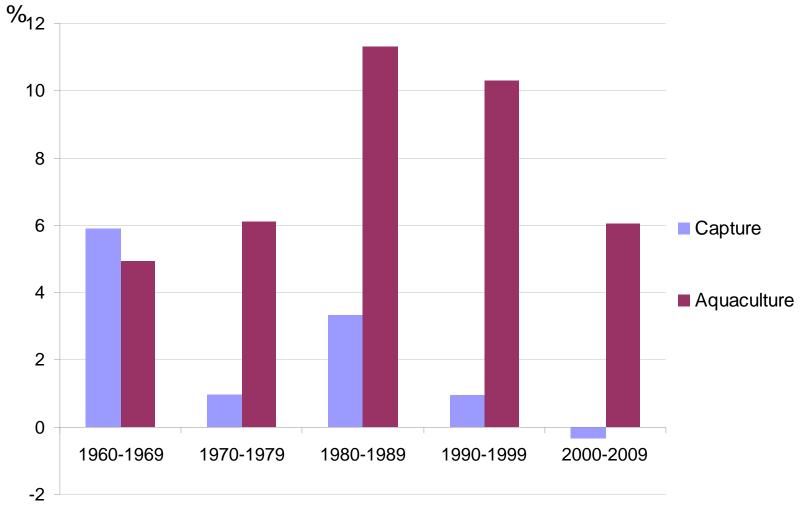
China







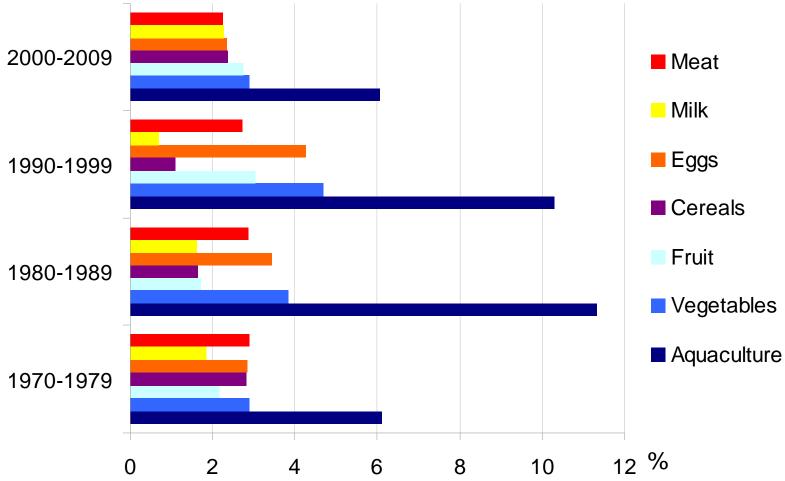
Annual growth rate







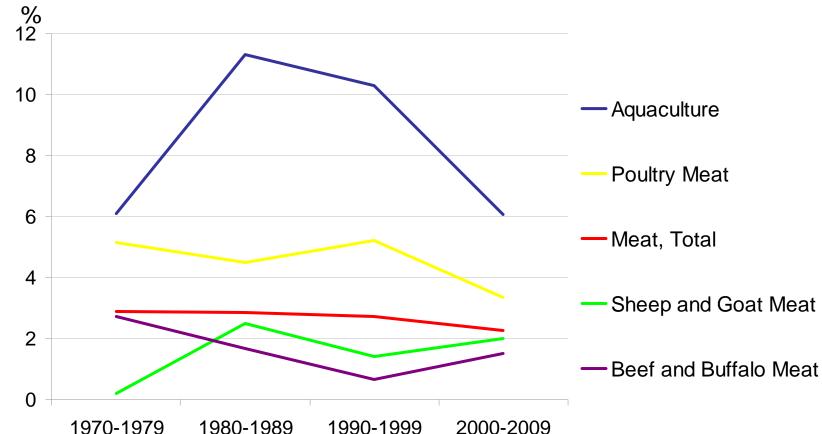
Annual growth rate Aquaculture vs agriculture







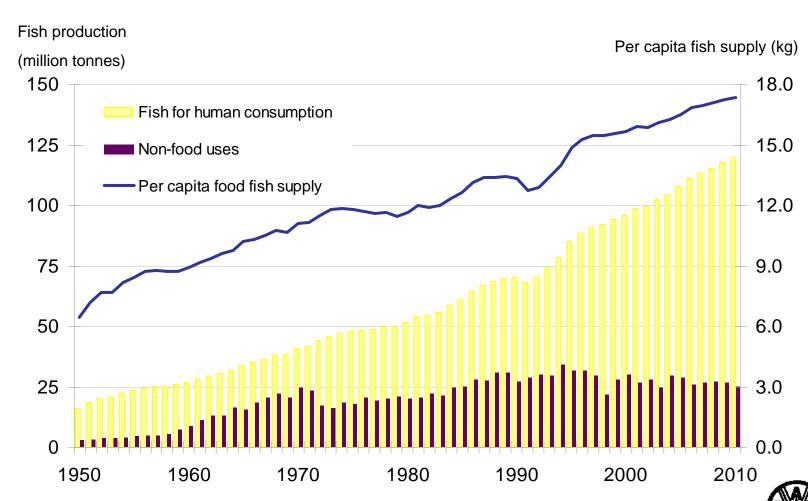
Annual growth rate Aquaculture vs meat





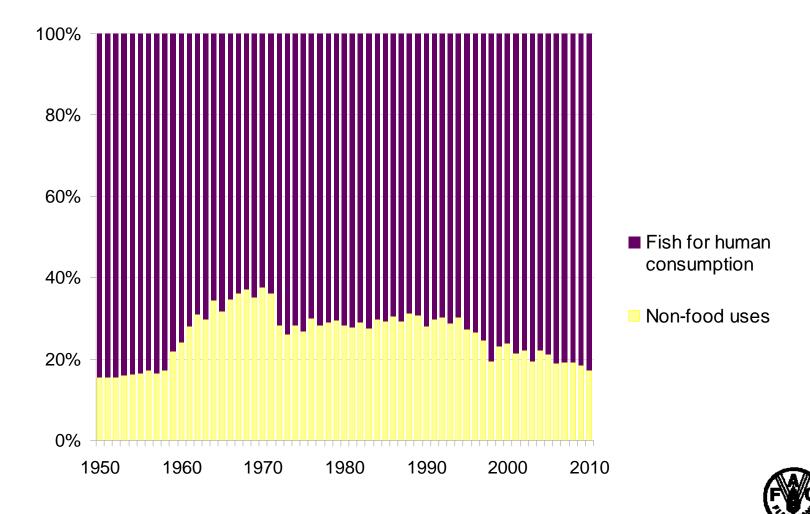


Utilization of fish production and per capita fish supply



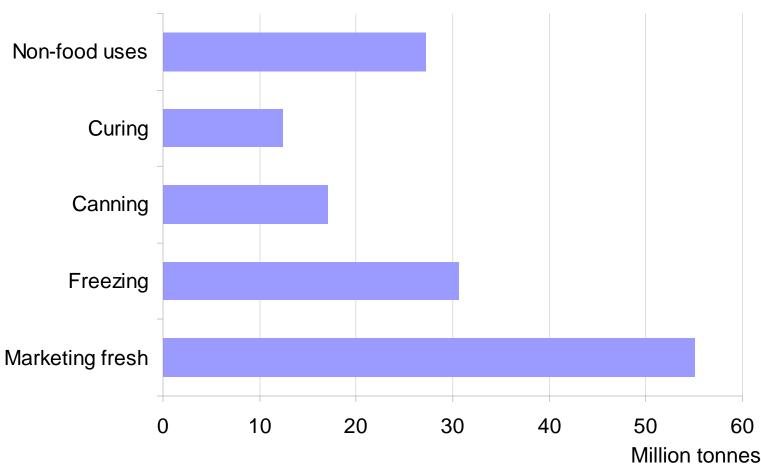


Share of utilization of fish production





Utilization of fish production breakdown by quantity





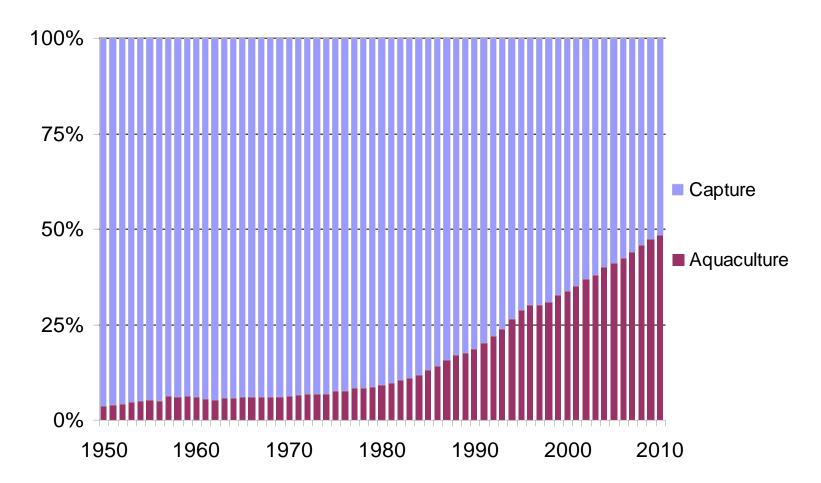
Fish as food

- Important role in food security
- Source of proteins, minerals, micronutrients and essential fatty acids
- 118 million tonnes
- 17.2 kg/capita
- 47% from aquaculture





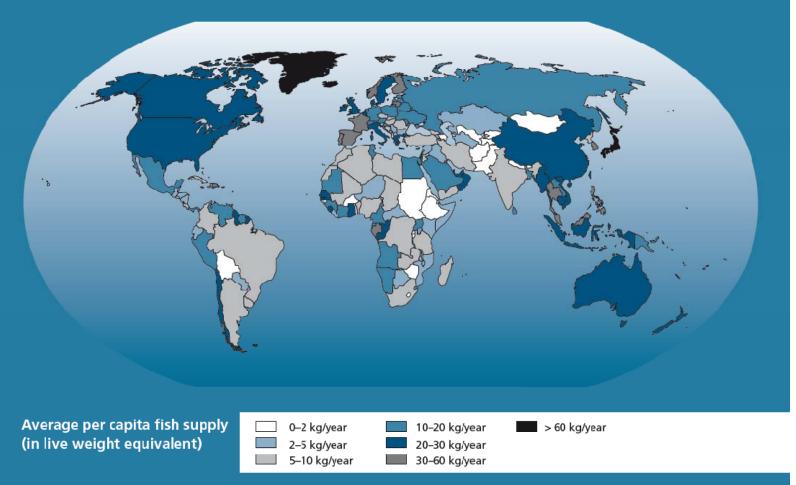
Per capita fish supply: contribution of capture and aquaculture







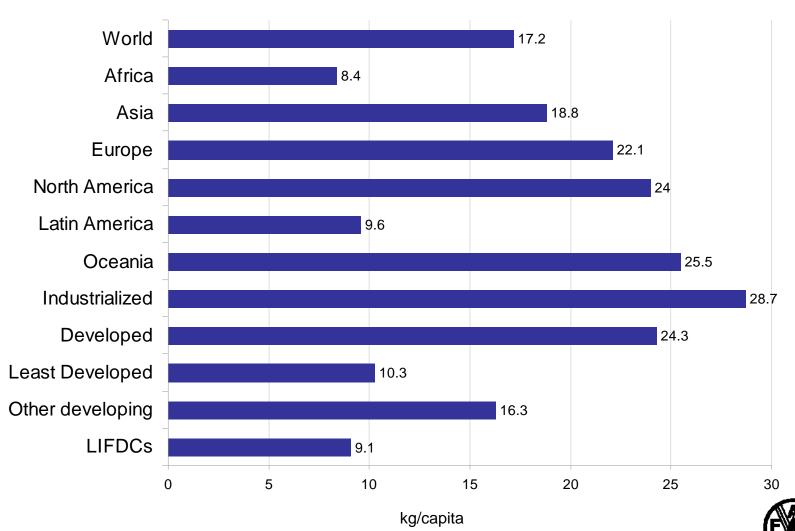
Per capita fish supply







Per capita fish supply





Per capita fish supply by groups of species

Aquatic animals, others

Cephalopods

Marine fish, other

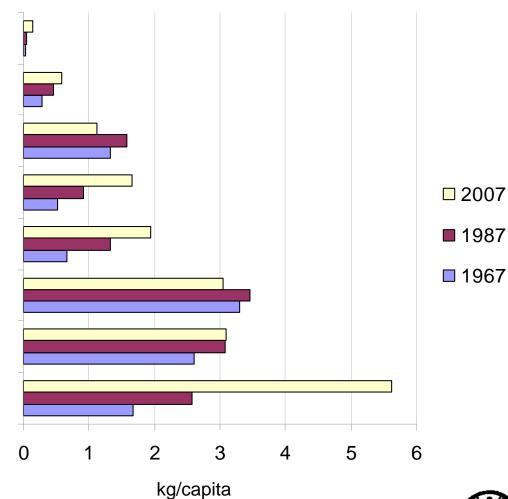
Crustaceans

Molluscs, excl. cephalopods

Demersal fish

Pelagic fish

Freshwater and diadromous fish







Nutritional standards

- Increase of the per capita food consumption
- Improvement of nutritional standards since 1970
- Change in global dietary patterns
- Increase in the average global calorie supply
- Growth of the quantity of proteins, in particular for emerging economies





Food consumption

- Rising living standards
- Population growth
- Rapid urbanization
- Increased trade
- Transformation in food distribution, transportation, marketing
- Improvement in food science, technology
- Value-added products
- More developed economies less reactive to income growth compared to low-income countries



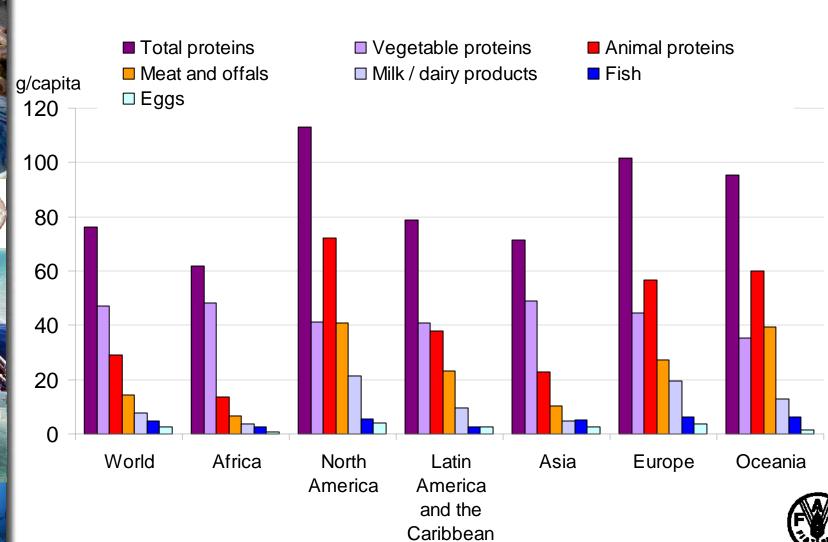


Fish consumption in industrialized countries

- Diversification in the diets
- Health and diet conscious
- Value addition
- Ready-to-cook, ready-to-eat
- More fish in fresh form

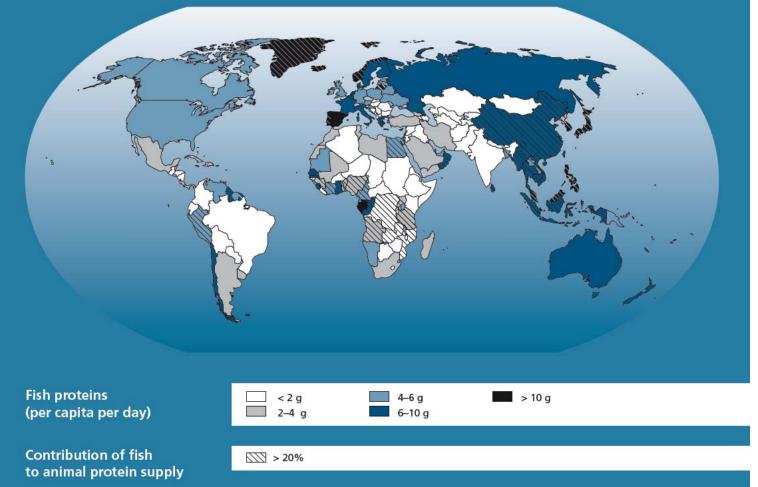


Protein supply





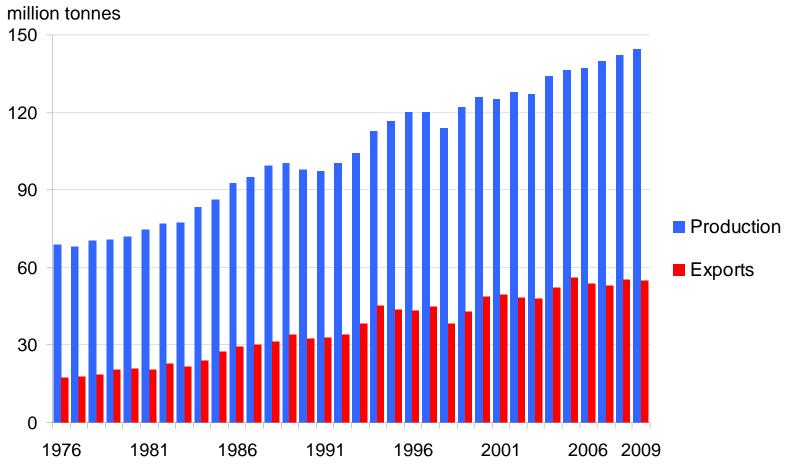
Fish contribution to animal protein supply (2005-2007)







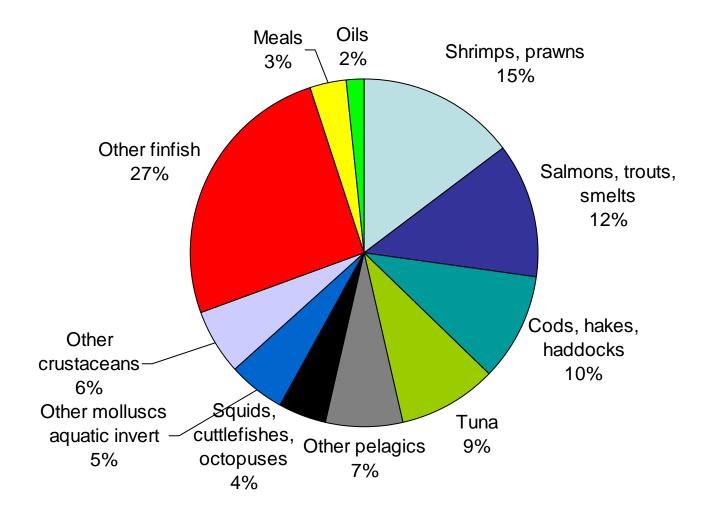
Share of production traded







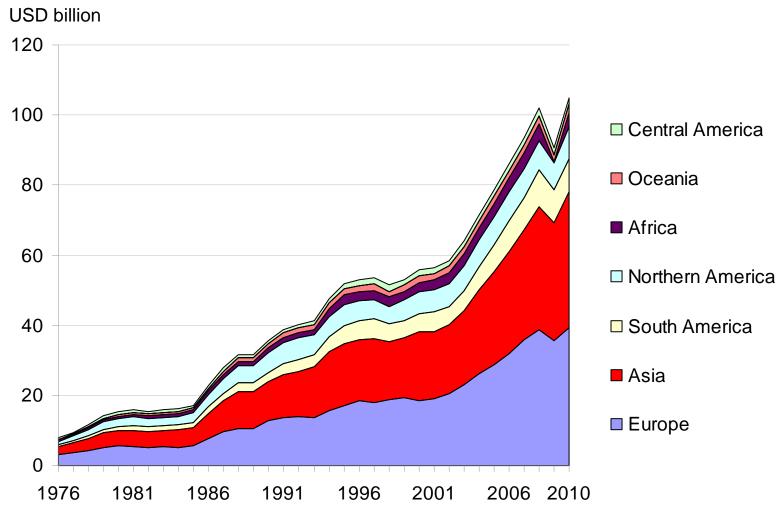
Trade by groups of species (value)







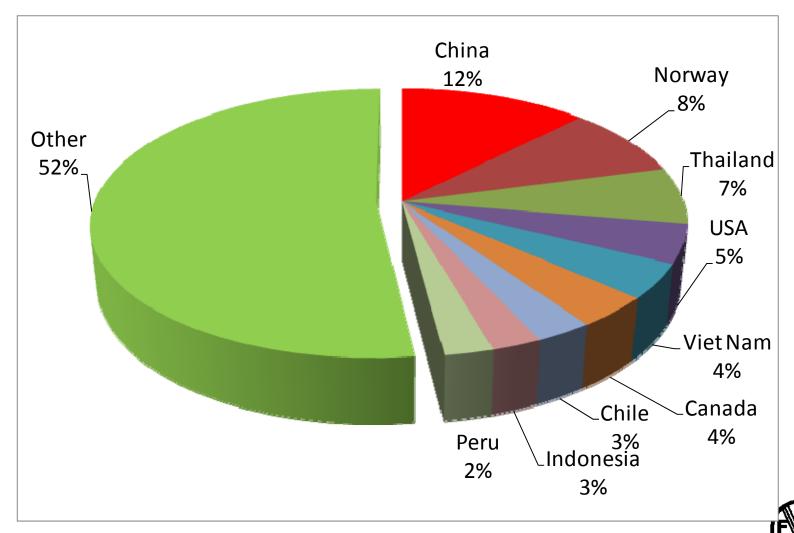
Fish exports





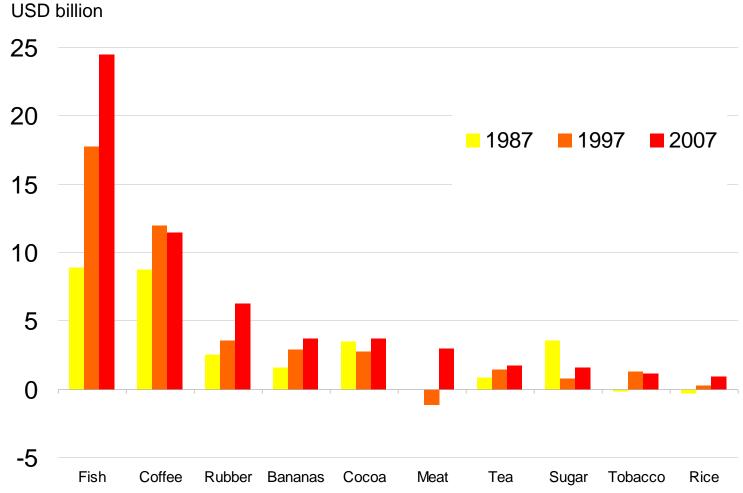


2009: Top exporters (value)





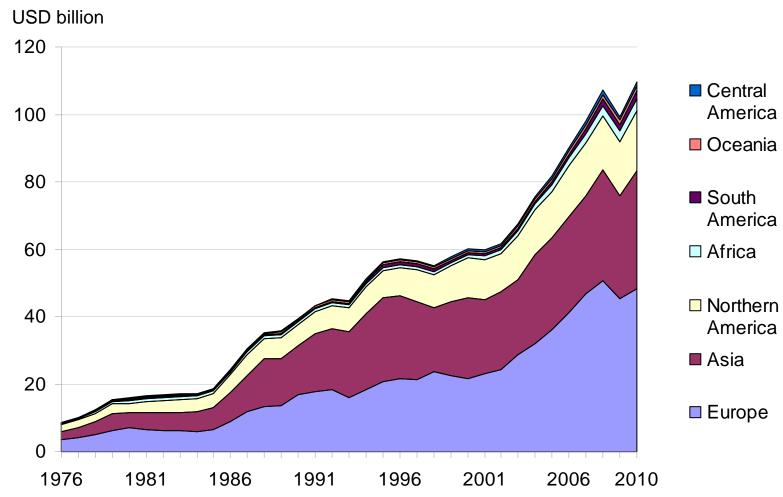
Net exports developing countries







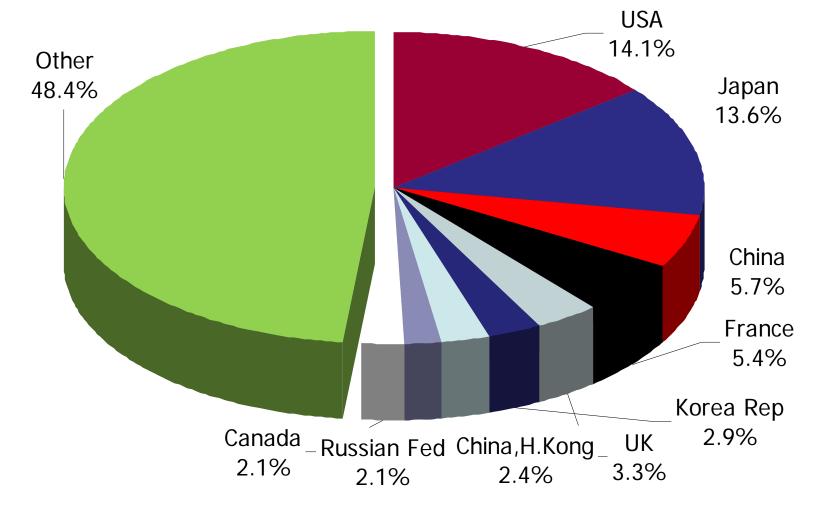
Fish imports







2009: Top importers (value)







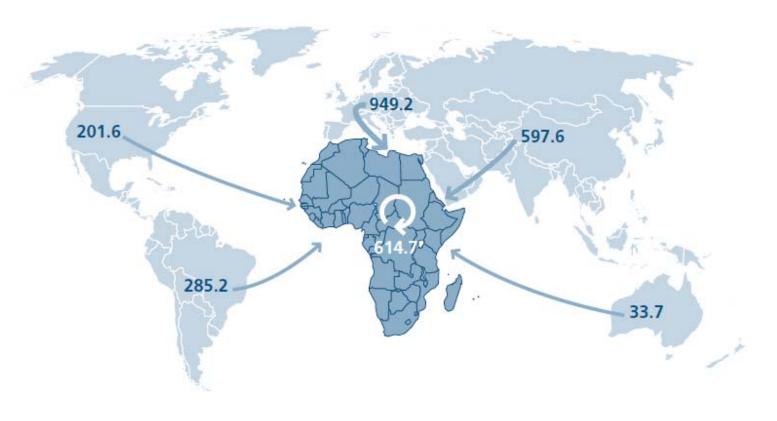
Trends in trade

- 7% decline in 2009, followed by growth of 11% in 2010
- 2010 imports estimated ad USD 110 billion and exports at USD 105 billion
- Positive 2011
- Wide range of product types and participants
- Increased fishery trade within regions
- Growing imports among/from developing countries





Africa

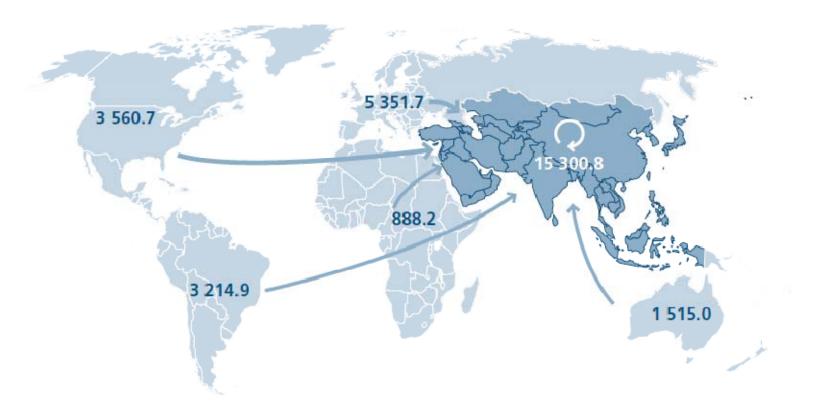








Asia

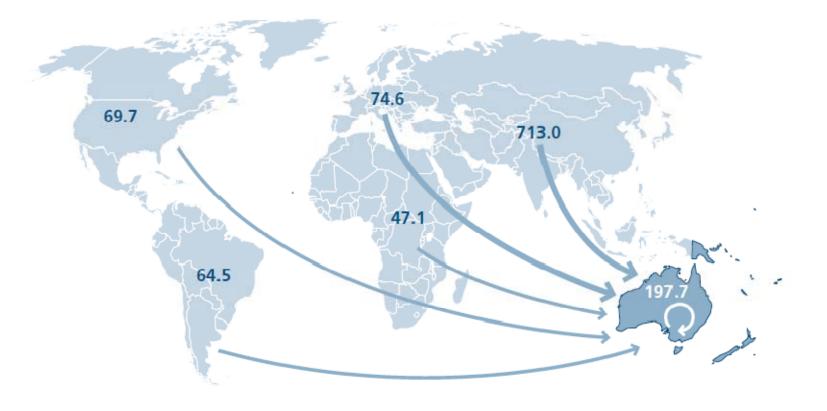








Oceania









Europe

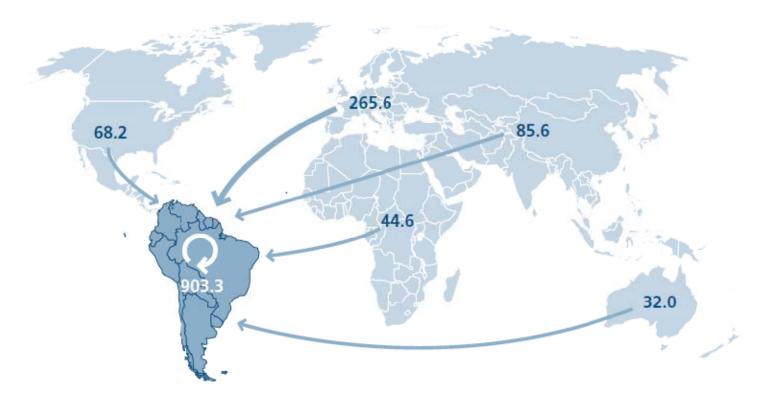








South America









North and Central America

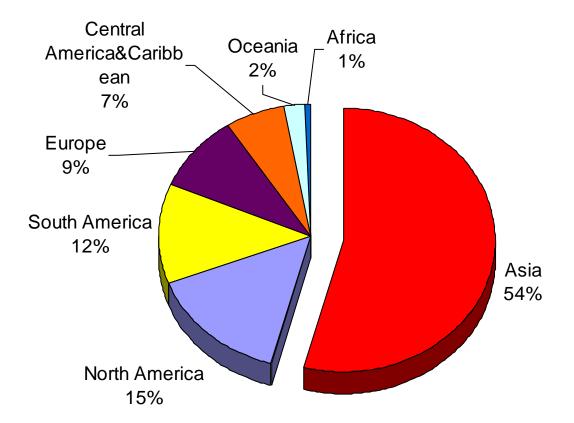








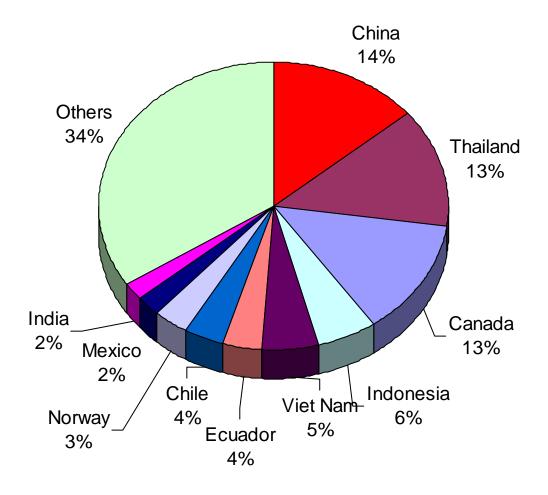
US fish imports in 2010 Value







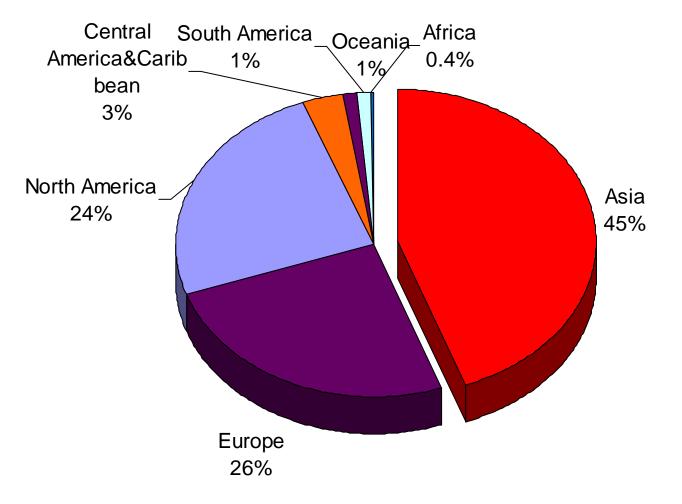
US fish imports in 2010 Value







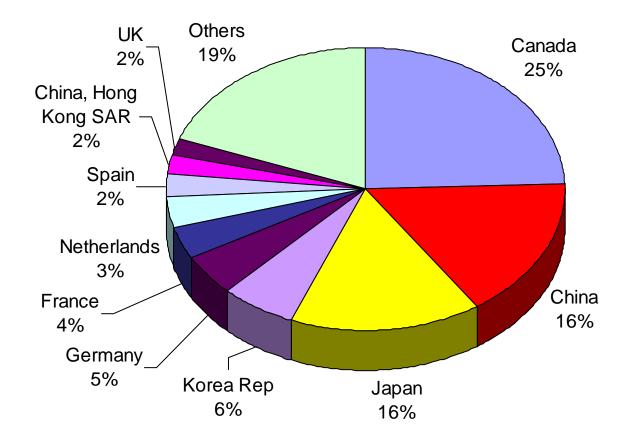
US fish exports in 2010 Value







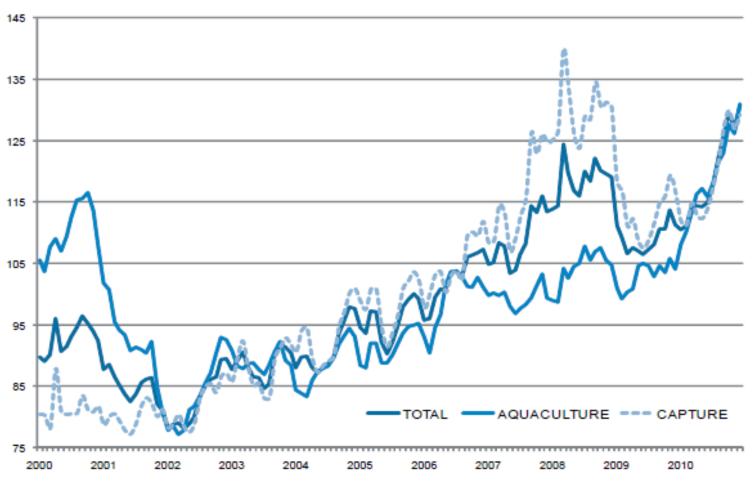
US fish exports in 2010 Value







Fish Price Index (2005=100)









Outlook supply

- Major increases will depend on aquaculture.
- Factors to influence future growth of aquaculture:
 - costs/availability of feed for selected species;
 access and availability of areas/water
 - environmental impacts
 - availability of technology and finance
 - effects on biodiversity
 - climate changes
 - governance
 - food safety and traceability issues
- Capture: importance of implement more cautious and effective fisheries management



Outlook demand

- Retail concentration in developed and developing which will affect demand
- Product development, technological innovation
- Continuous increase of trade
- Increased imports from developing countries
- Outsourcing of processing will continue
- Slow growth in per capita consumption



