



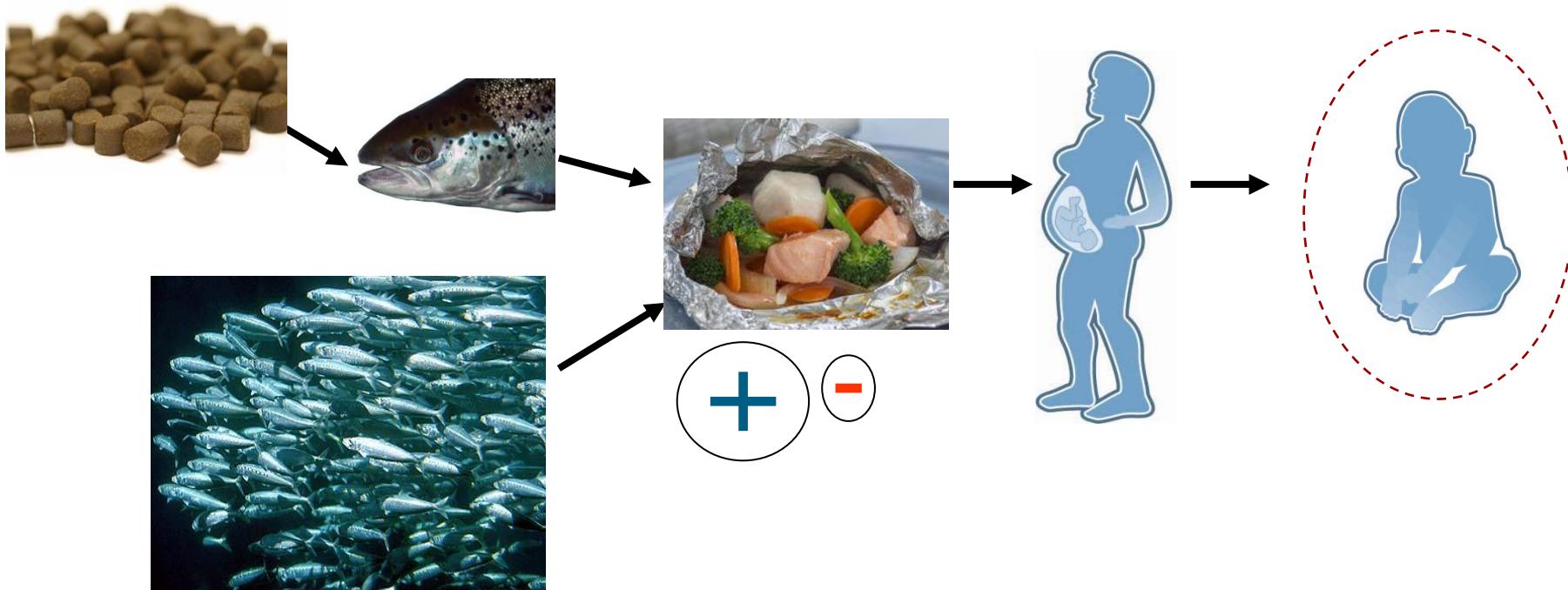
Global perspectives on sustainable food security and nutrition, FSN, for fisheries and aquaculture.

Gro-Ingunn Hemre

National Institute of Nutrition and Seafood Research (NIFES)



FOOD AFFECTS YOUR HEALTH THROUGHOUT LIFE



The role of sustainable fisheries and aquaculture for food security and nutrition

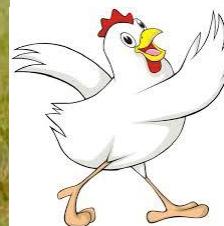
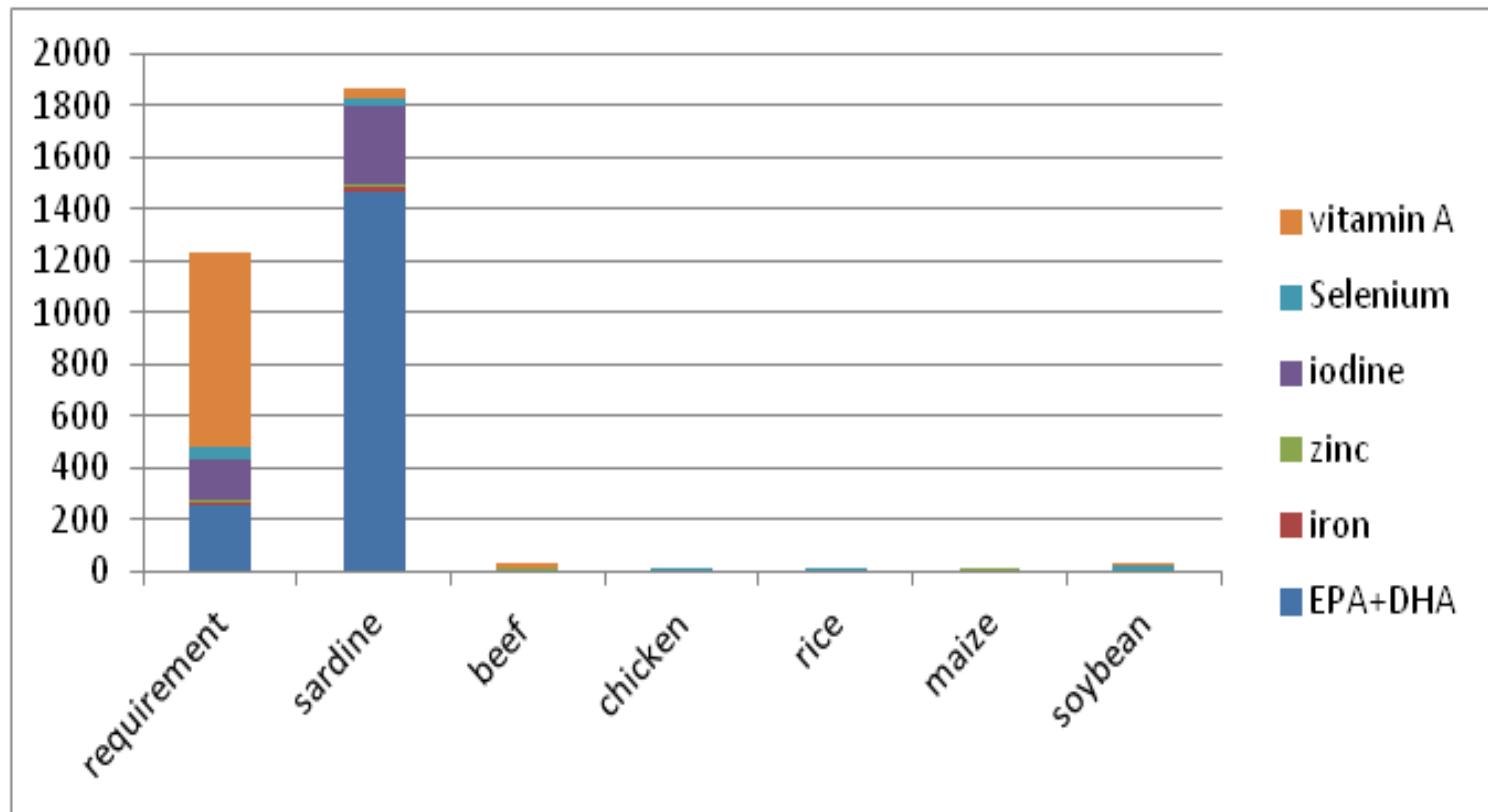


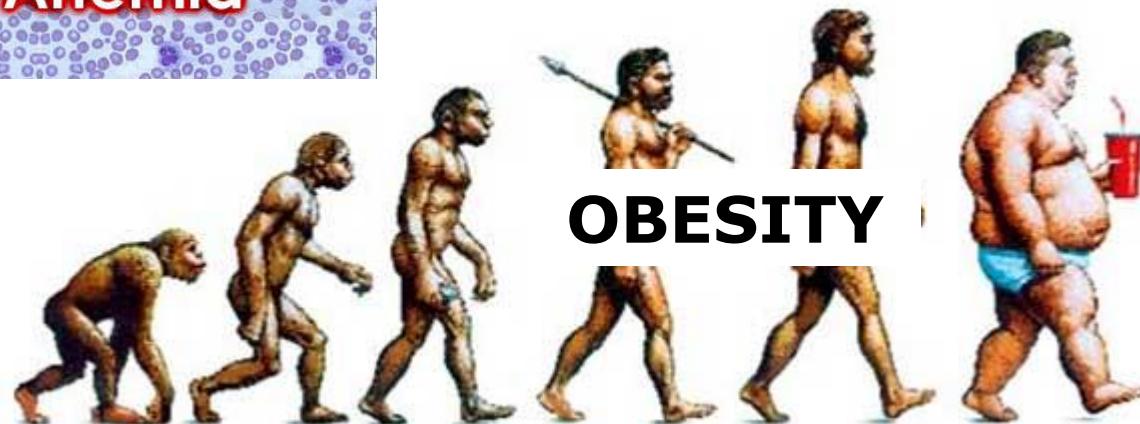
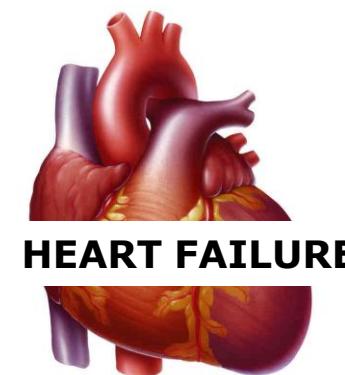
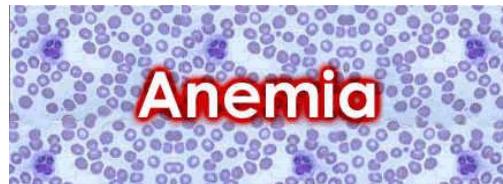
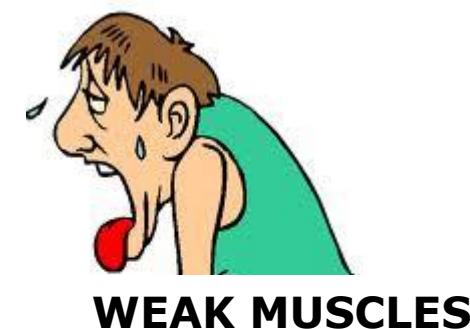


Food security exists when all people, at all times, have physical, social and economic access to **sufficient safe and nutritious food that meets their dietary needs and food preferences for an active and healthy life**

The killer arguments:

NUTRIENTS





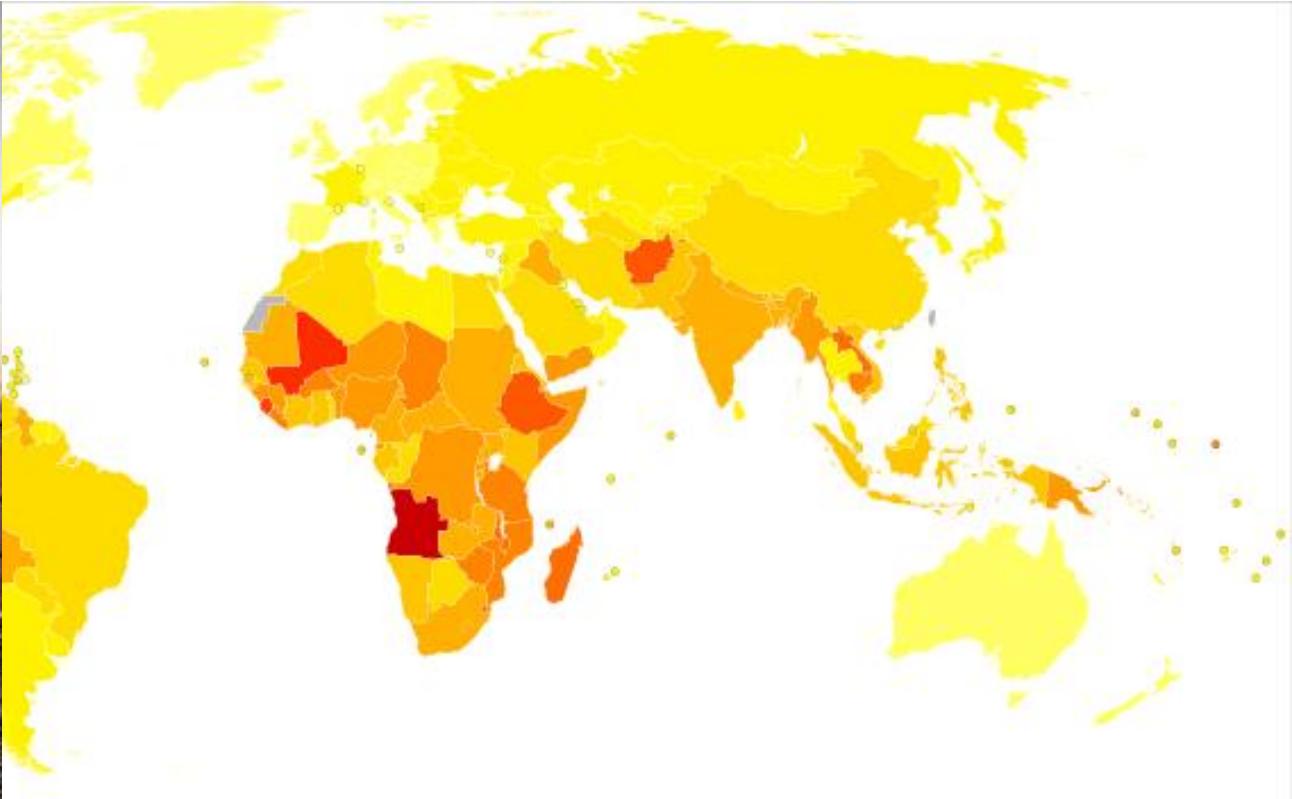
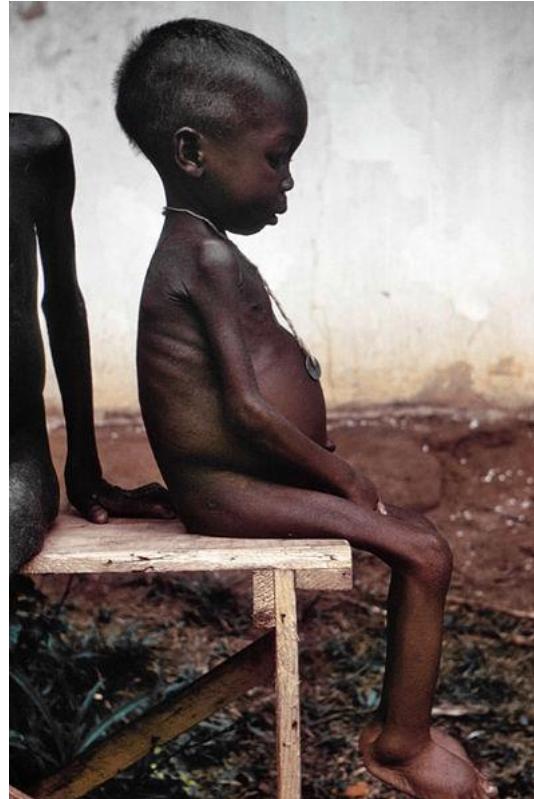


2% of total energy intake, 16% of total protein intake

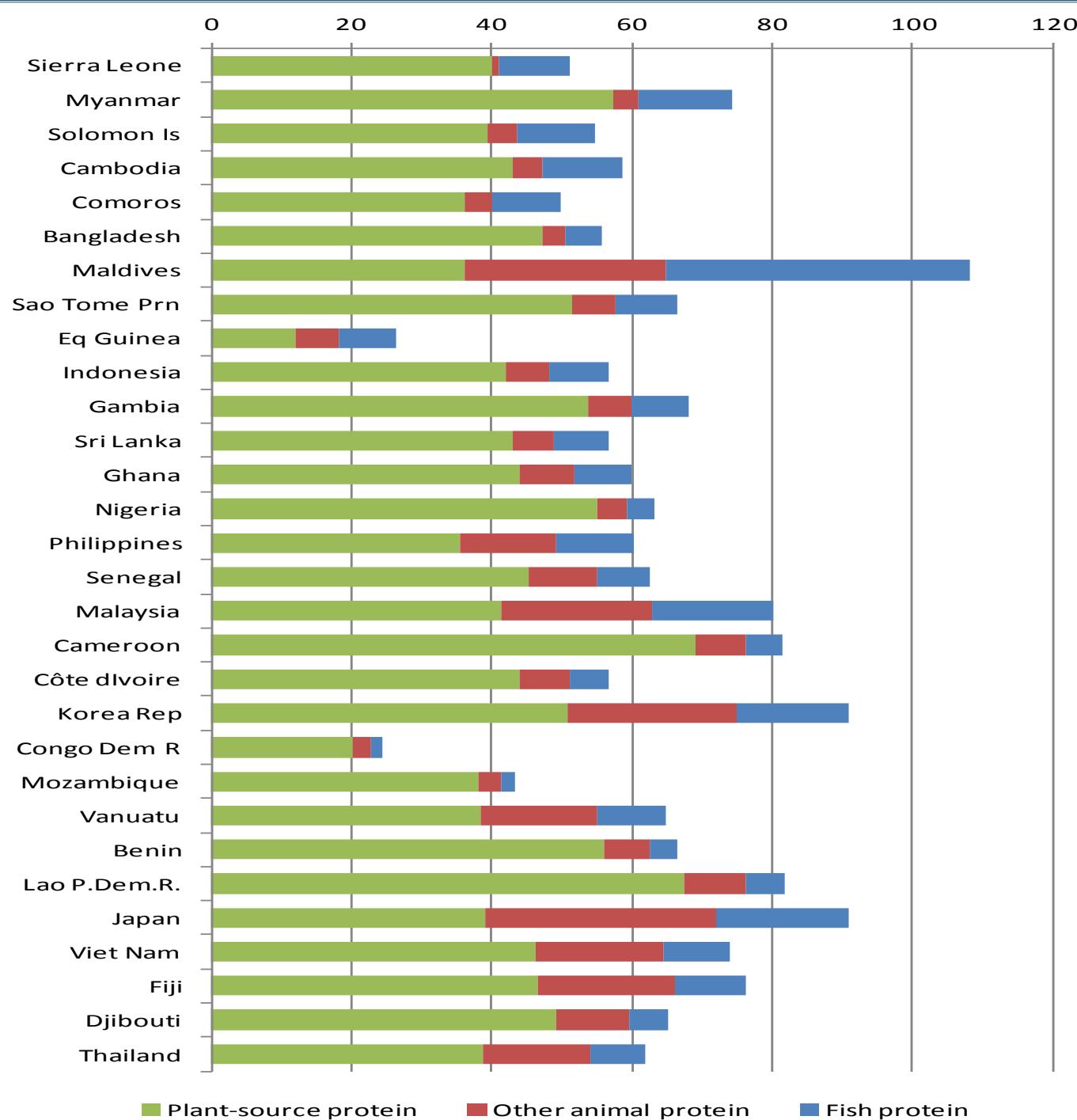
PROTEIN = BALANCE OF AMINO ACIDS

Google - 39 mill hits saying increase your plant protein & reduce animal protein intake for good health? FISH not evaluated

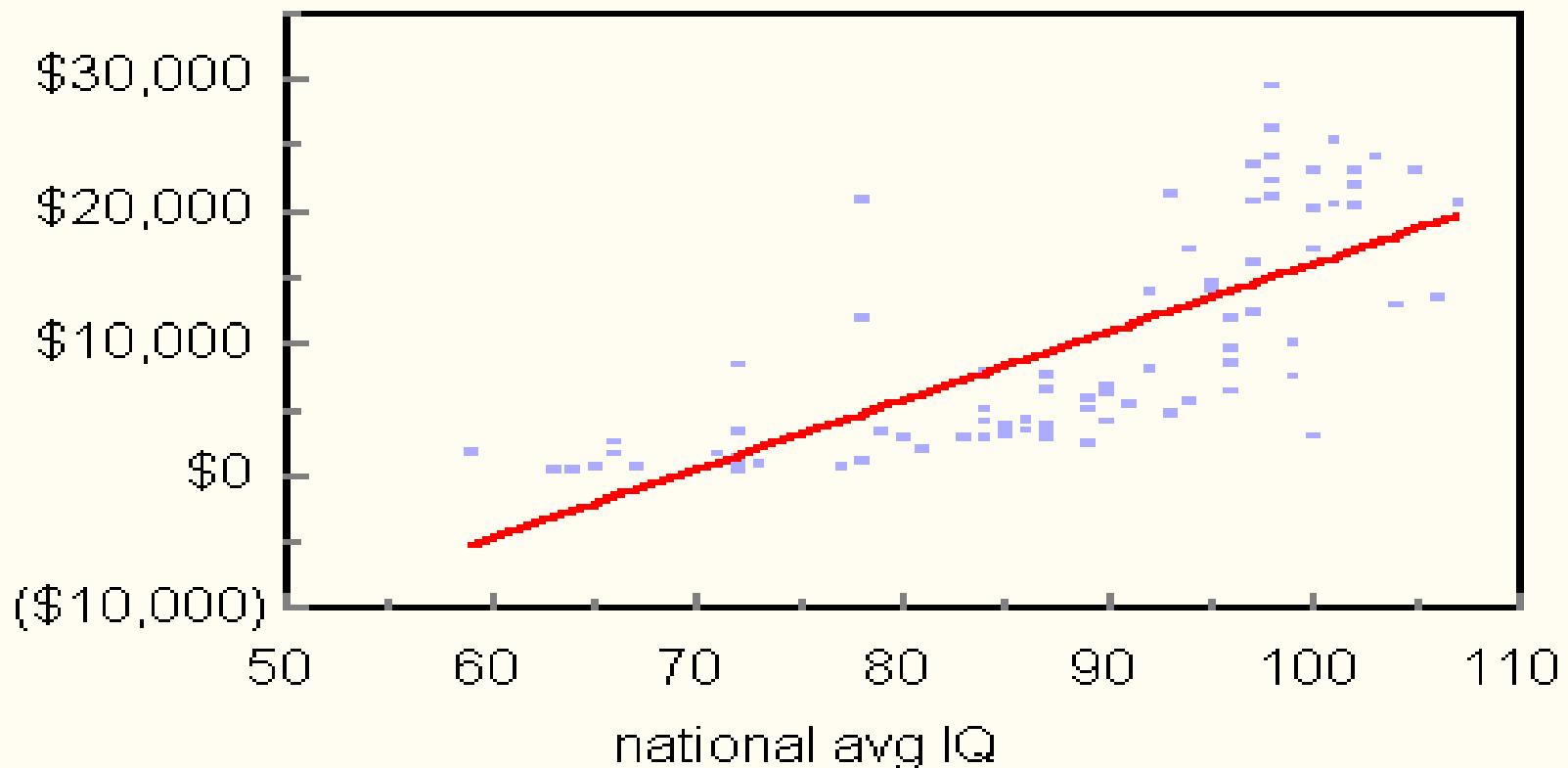




Fish - strikingly missing from strategies for reduction of nutrient deficiency, precisely where it could have the largest impact

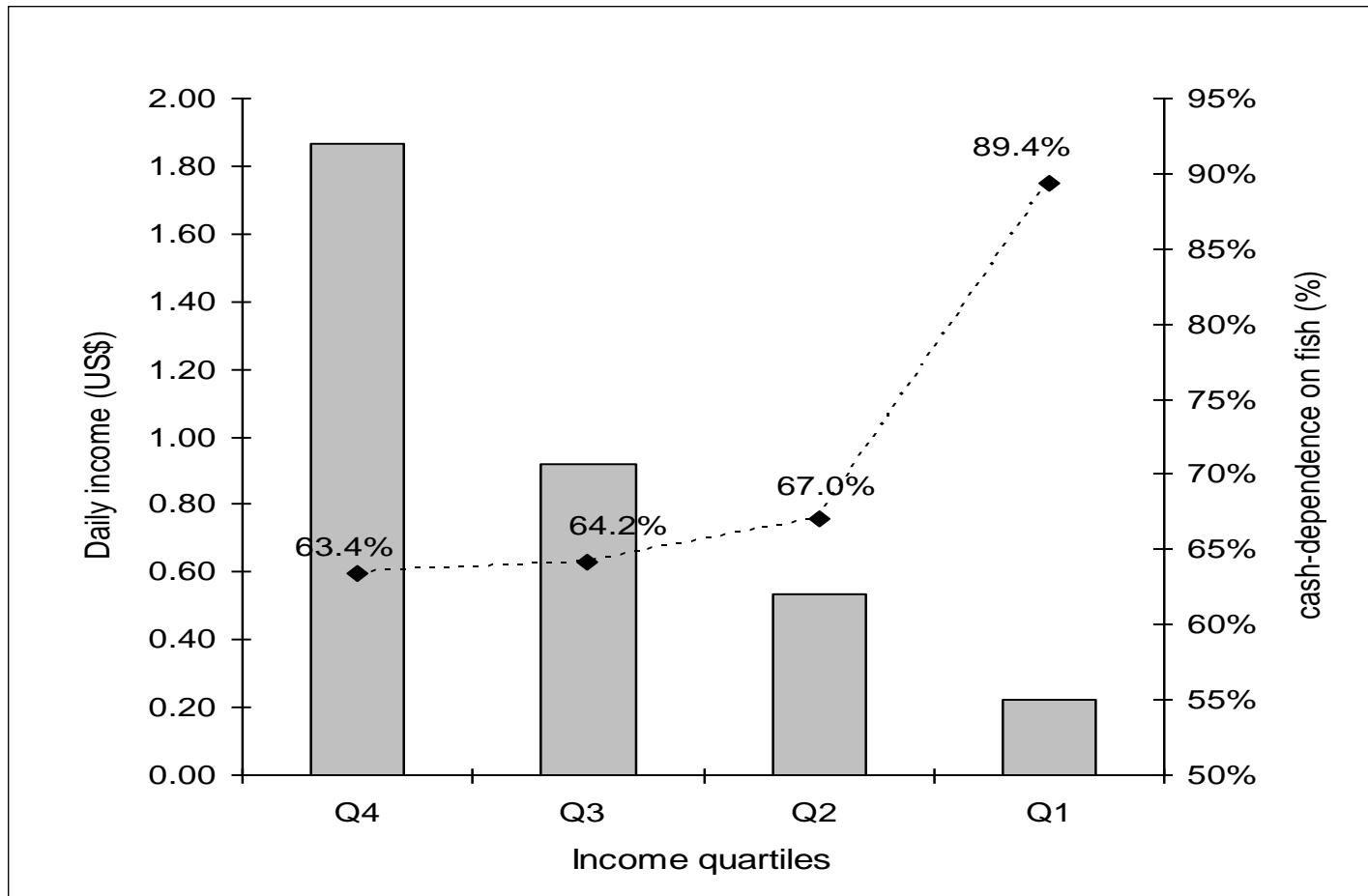


per capita GDP v. Avg IQ
linear regression



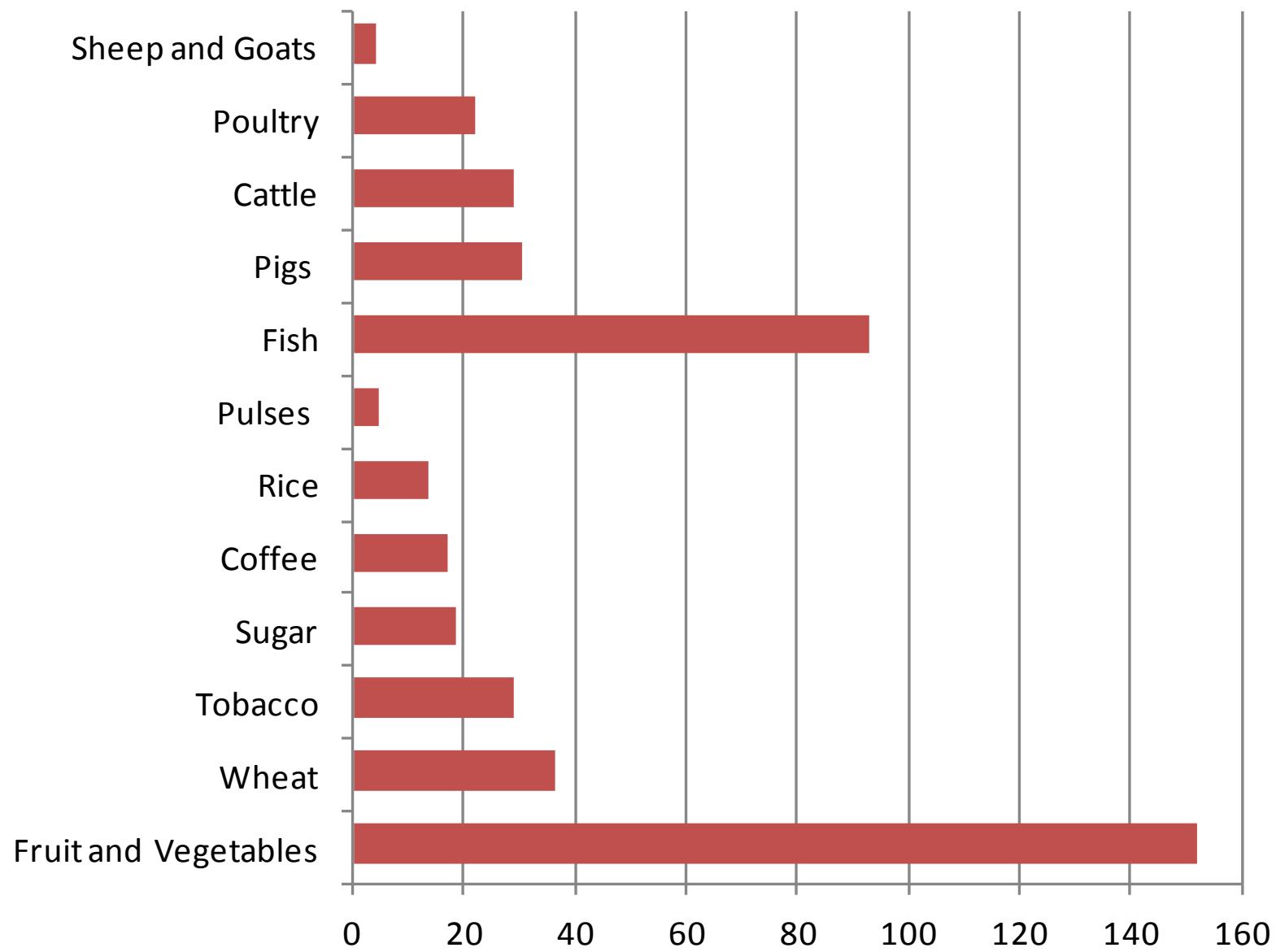
La Griffe du Lion, 2002

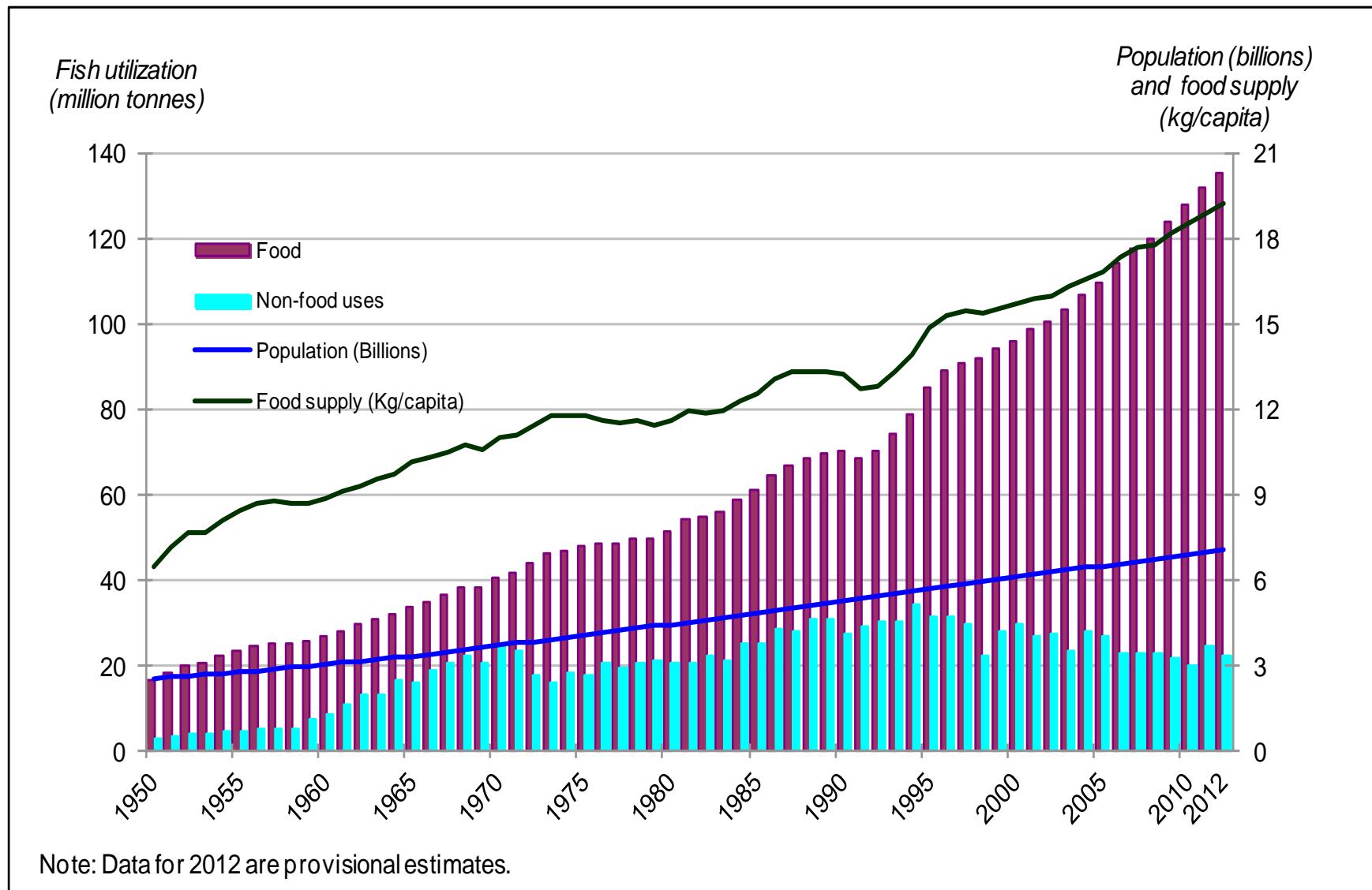
**Relative contribution of cash generated by fishing activities
to household aggregated income – households ranked by
quartile, from the poorest (Q1) to the richest (Q4)**



Export values from different food commodities in developing countries

N I F E S

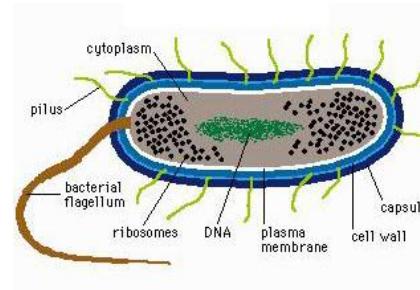
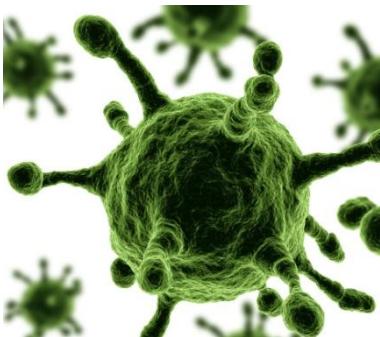




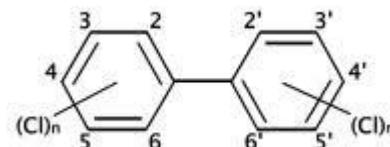
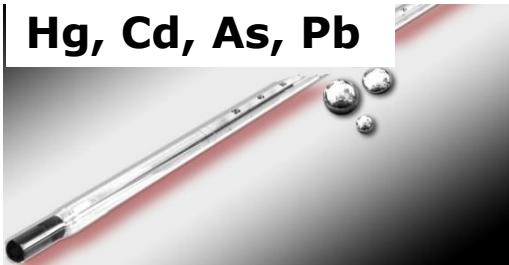
GENDER

NIFES





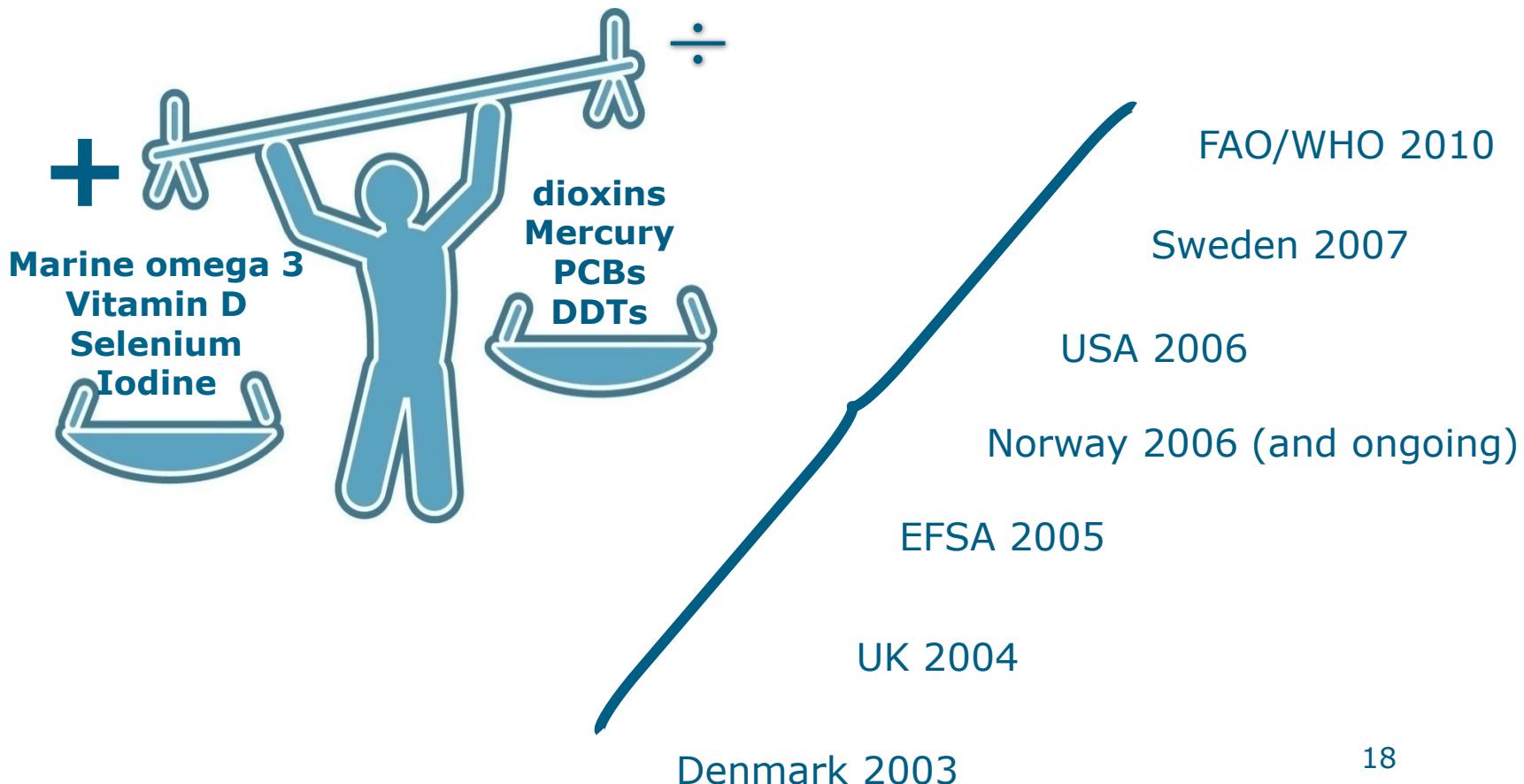
Hg, Cd, As, Pb



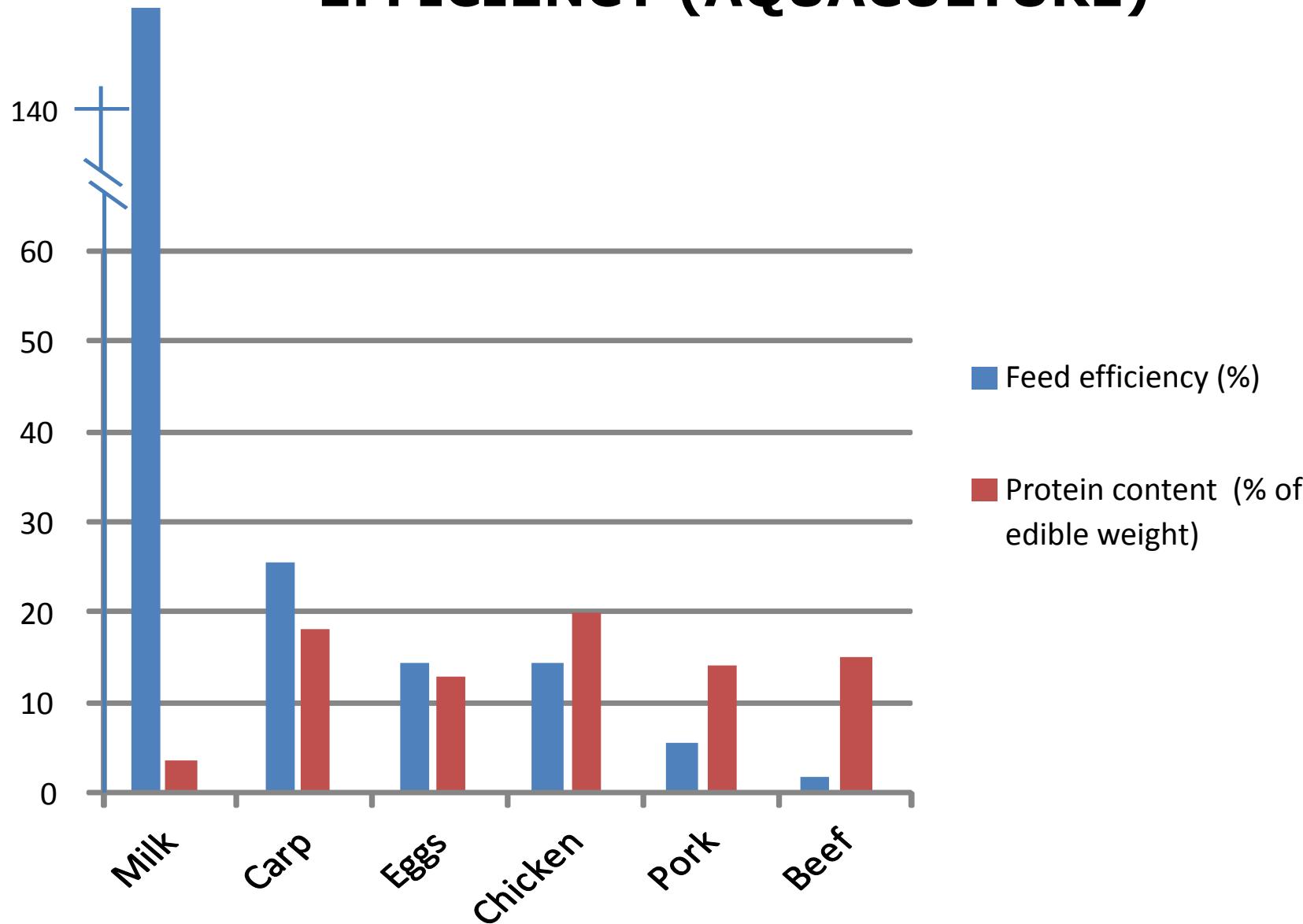
Organic pollutants
Dioxins / dIPCB....



Risk-benefit evaluations on seafood consumption:

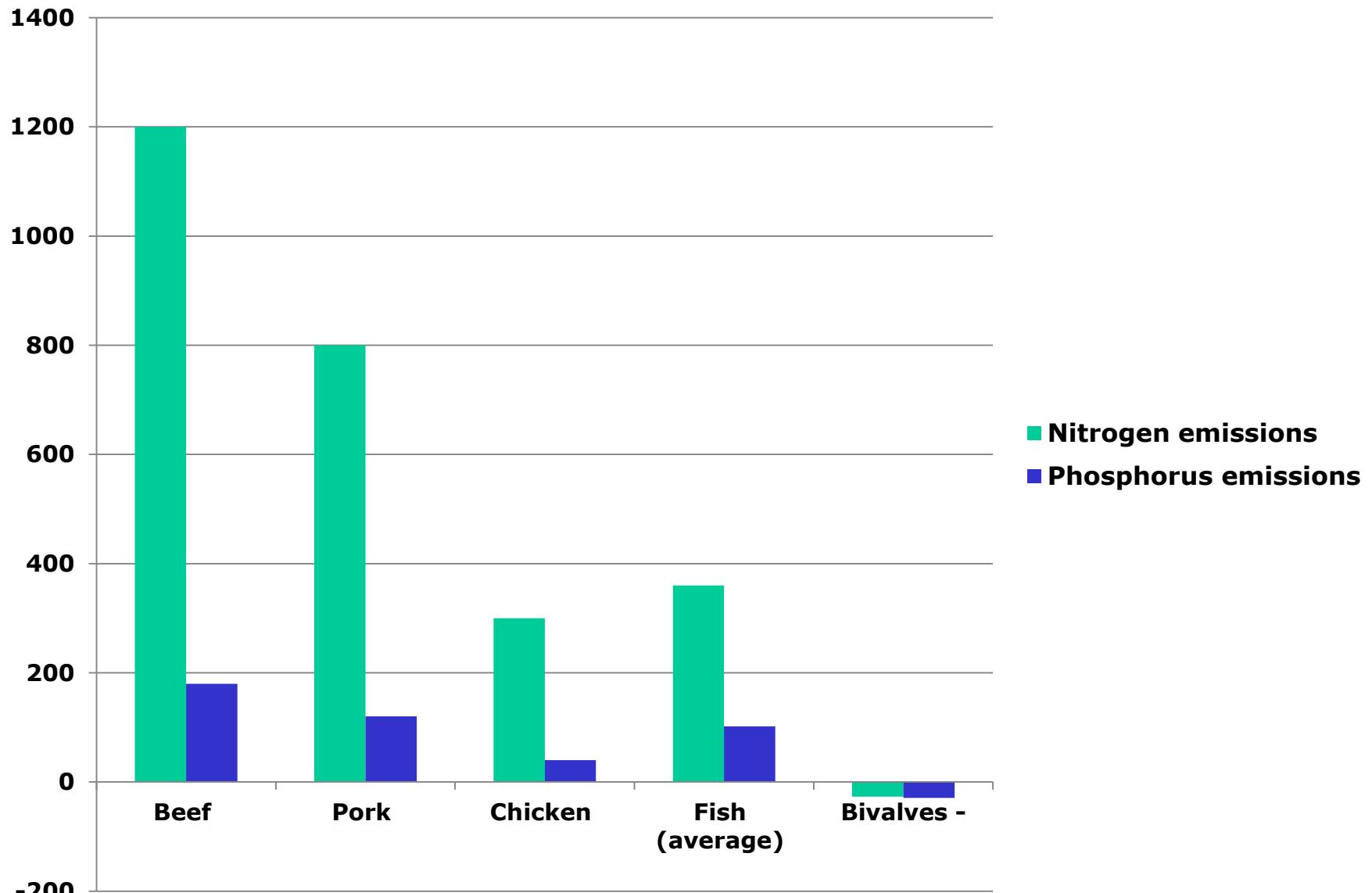


EFFICIENCY (AQUACULTURE)



FARMING

N I F E S



CFS, HLPE report



(Will be altogether 12 recommendations)

1. Incorporating fish in nutrition programmes

1. Fish, terrestrial animal and plant protein

2. Equality through gender focus

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