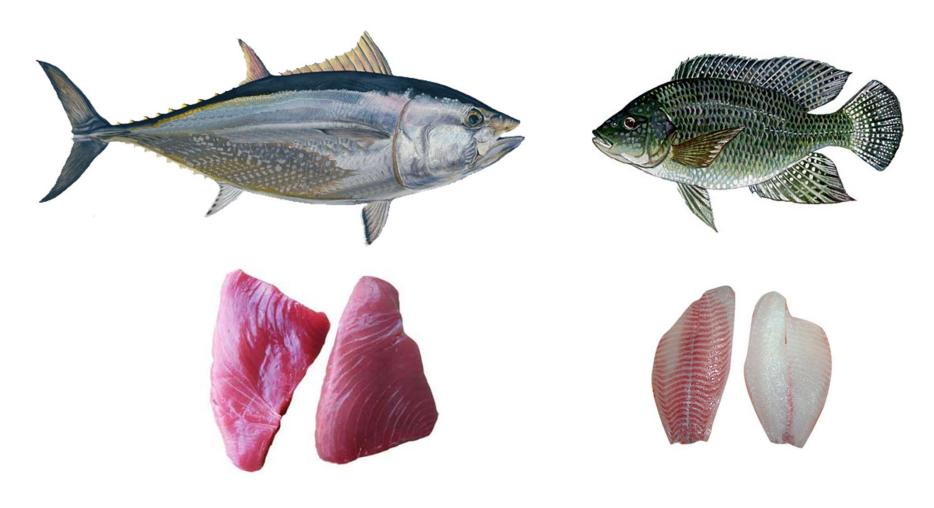
# Tuna or tilapia? Food security and environmental implications of aquaculture



### Increasing demand for seafood

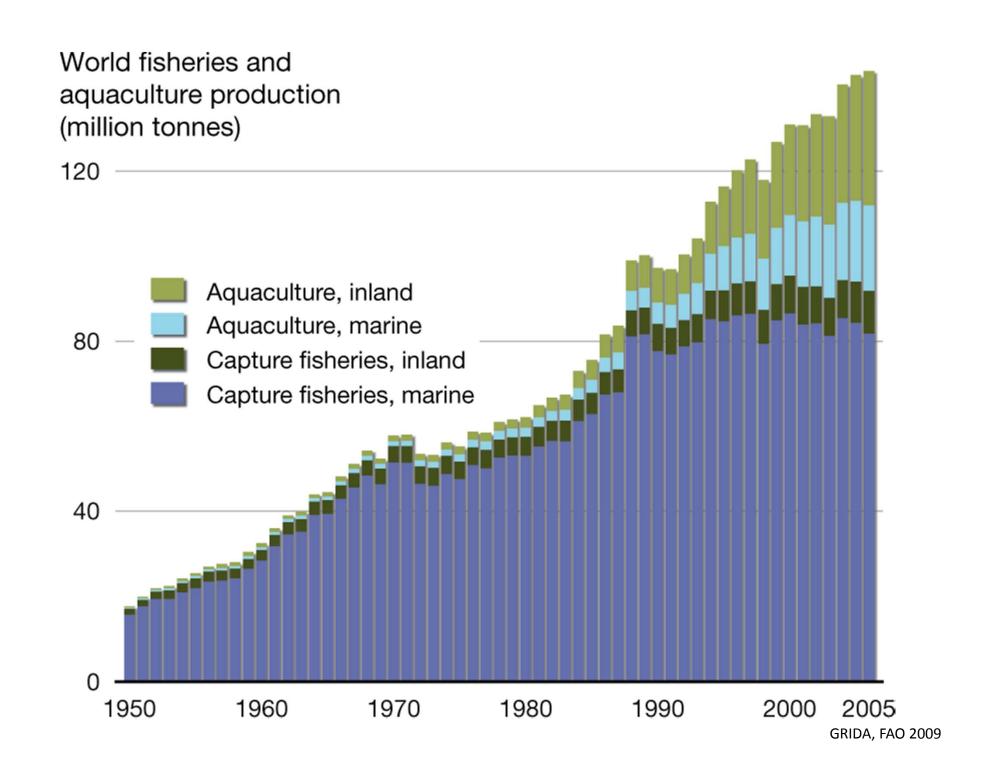
#### **More People**

- 1960s 3 billion people
- 2007 6.6 billion people

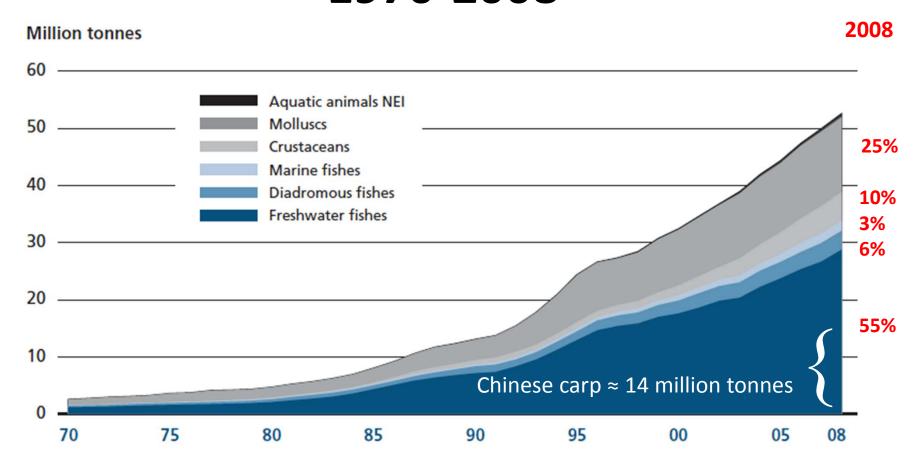
#### **Eating More Fish**

- 1961 per capita fish consumption: 9 kg
- 2007 per capita fish consumption: 17 kg



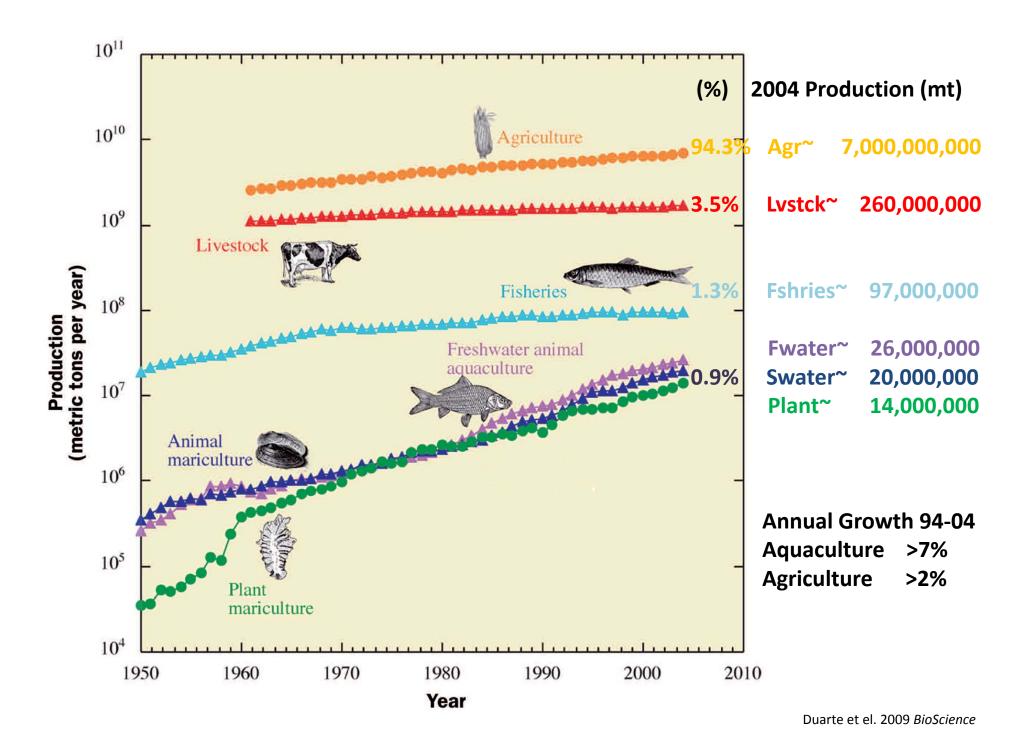


# Trends in world aquaculture production 1970-2008



Note: NEI=not elsewhere included

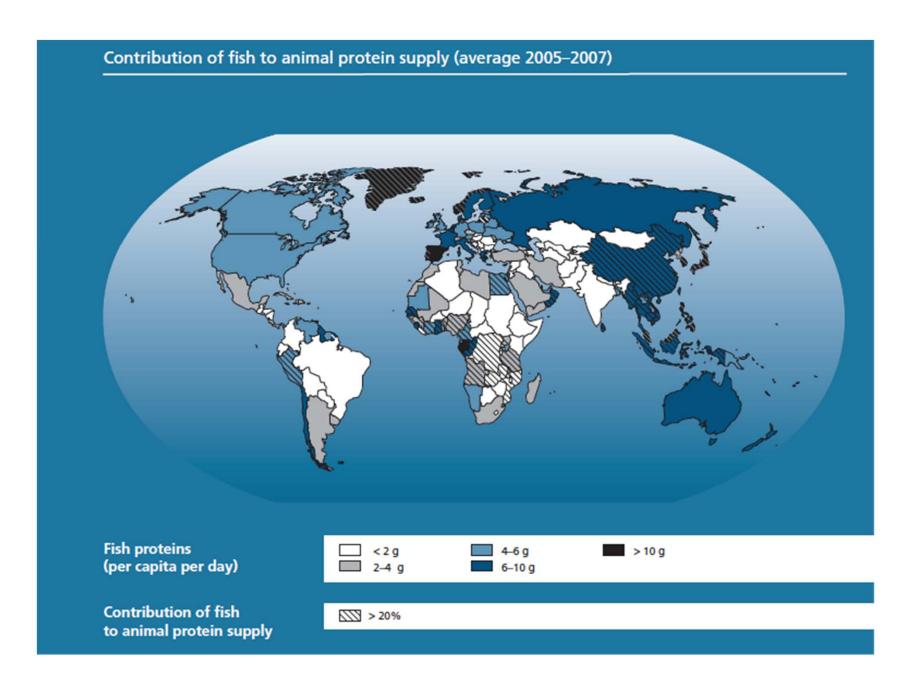
(2008 Chinese production= 33 million tons)



## Aquaculture and food security



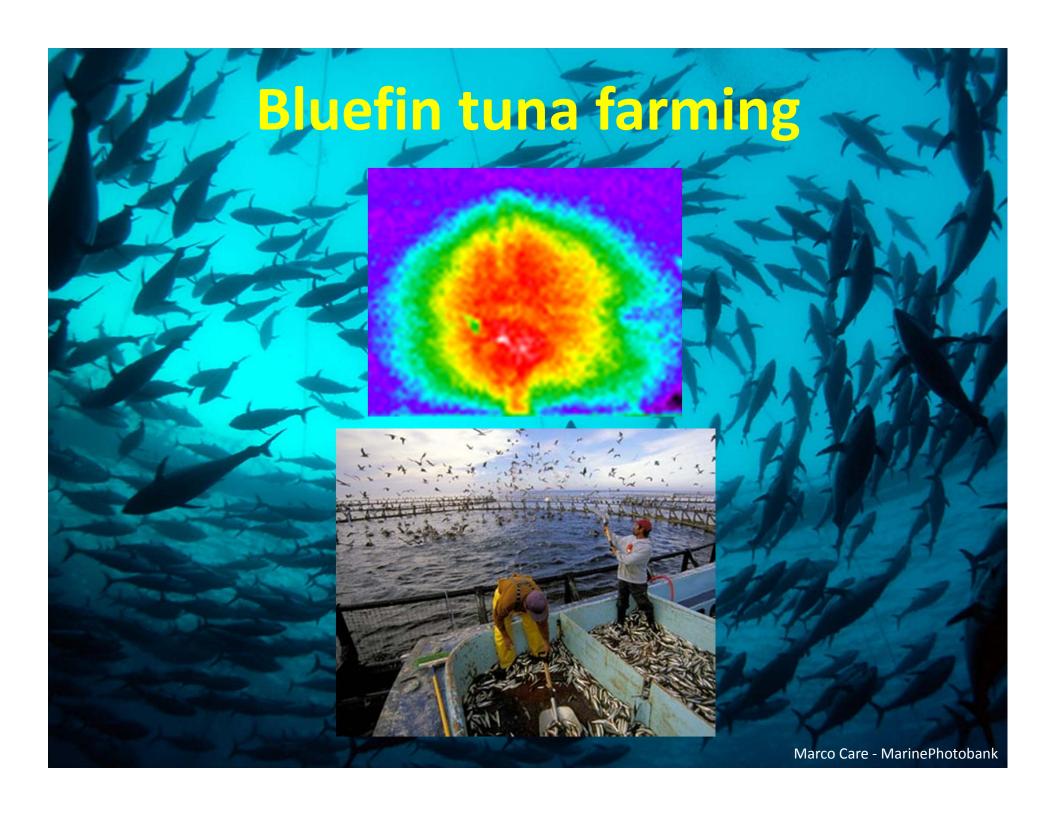




# Potential for aquaculture to address food insecurity: some considerations

- Providing inexpensive protein distributed through global markets (industrial tilapia) ??
- Alleviating pressures on wild stocks that the food insecure depend on??
- Substituting farmed protein systems for subsistence fishermen and impoverished farmers ??
  - Cultural/infrastructural impediments
  - Requires significant agricultural extension work







### Tilapia

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### **Environmental and food security Implications**













### Who should invest? In what?













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