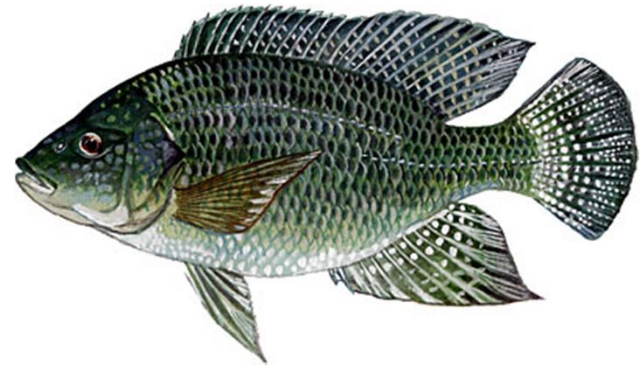
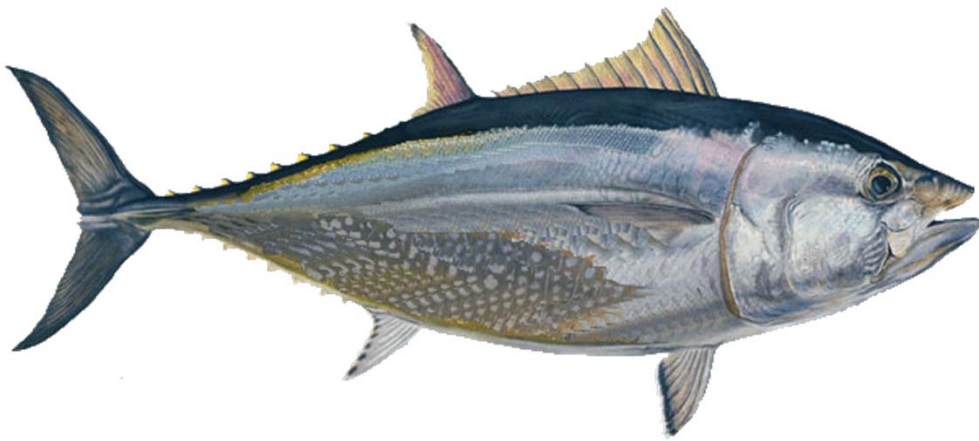


Tuna or tilapia?

Food security and environmental implications of aquaculture



Increasing demand for seafood

More People

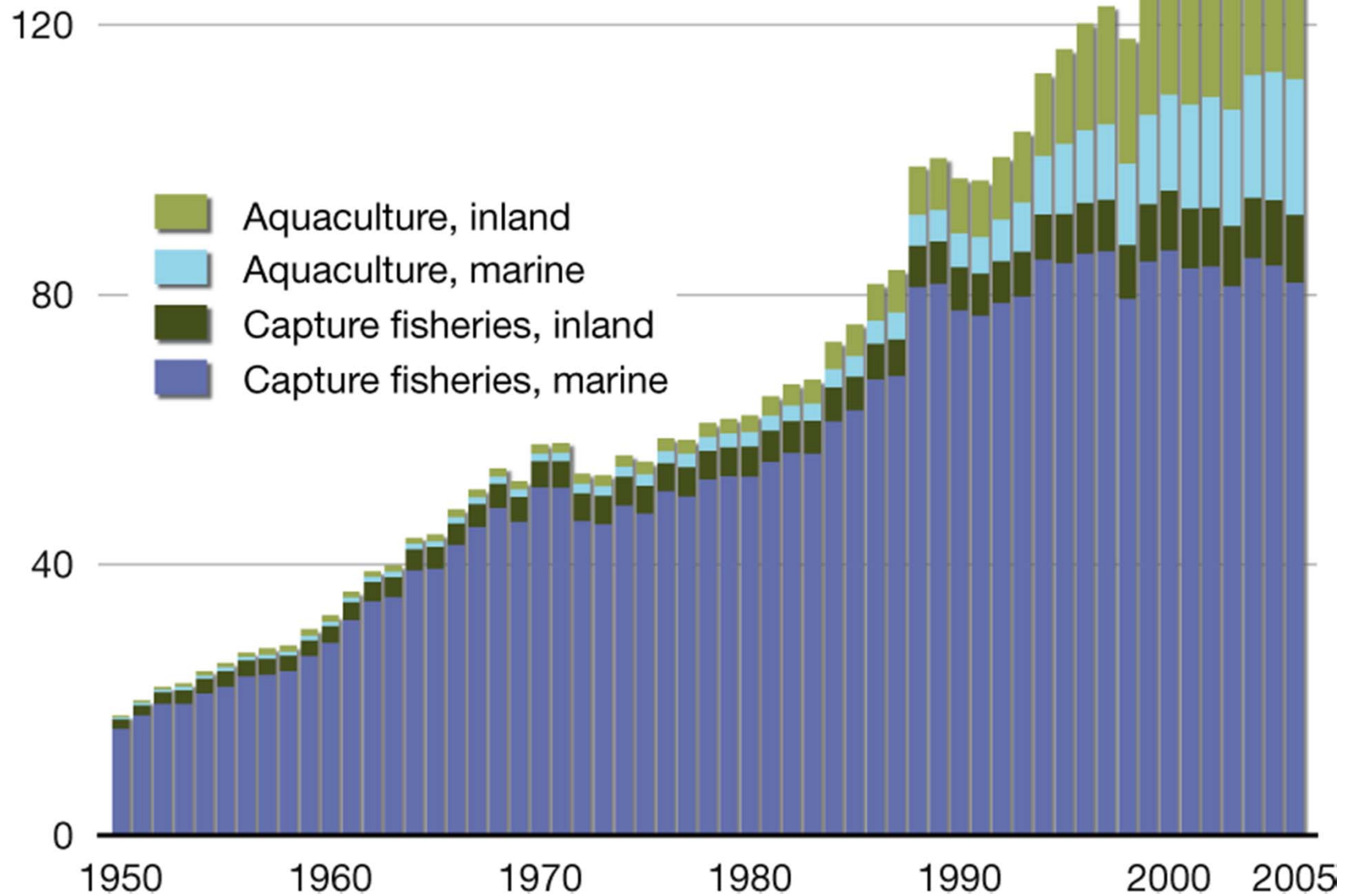
- 1960s – 3 billion people
- 2007 – 6.6 billion people

Eating More Fish

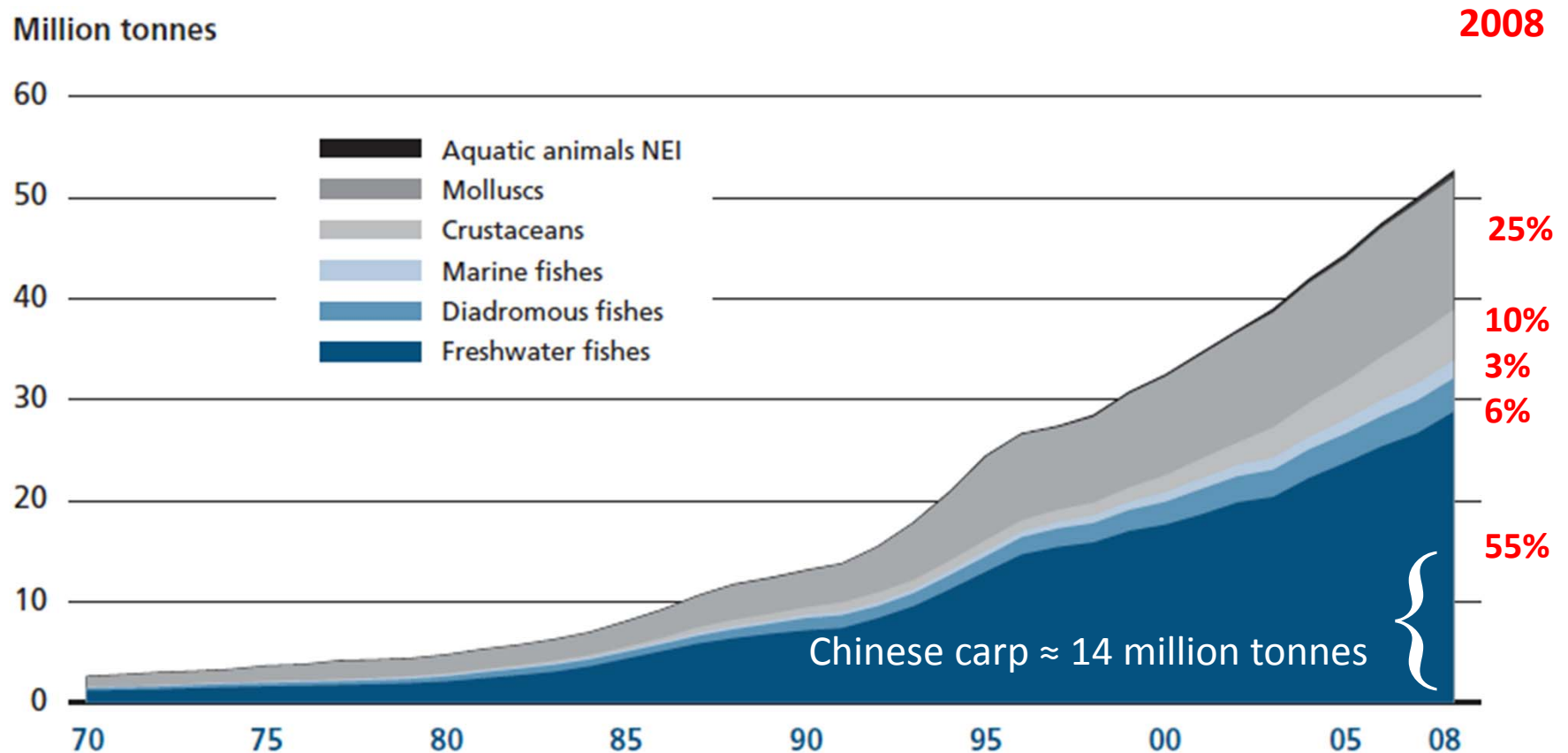
- 1961 per capita fish consumption: 9 kg
- 2007 per capita fish consumption: 17 kg



World fisheries and aquaculture production (million tonnes)

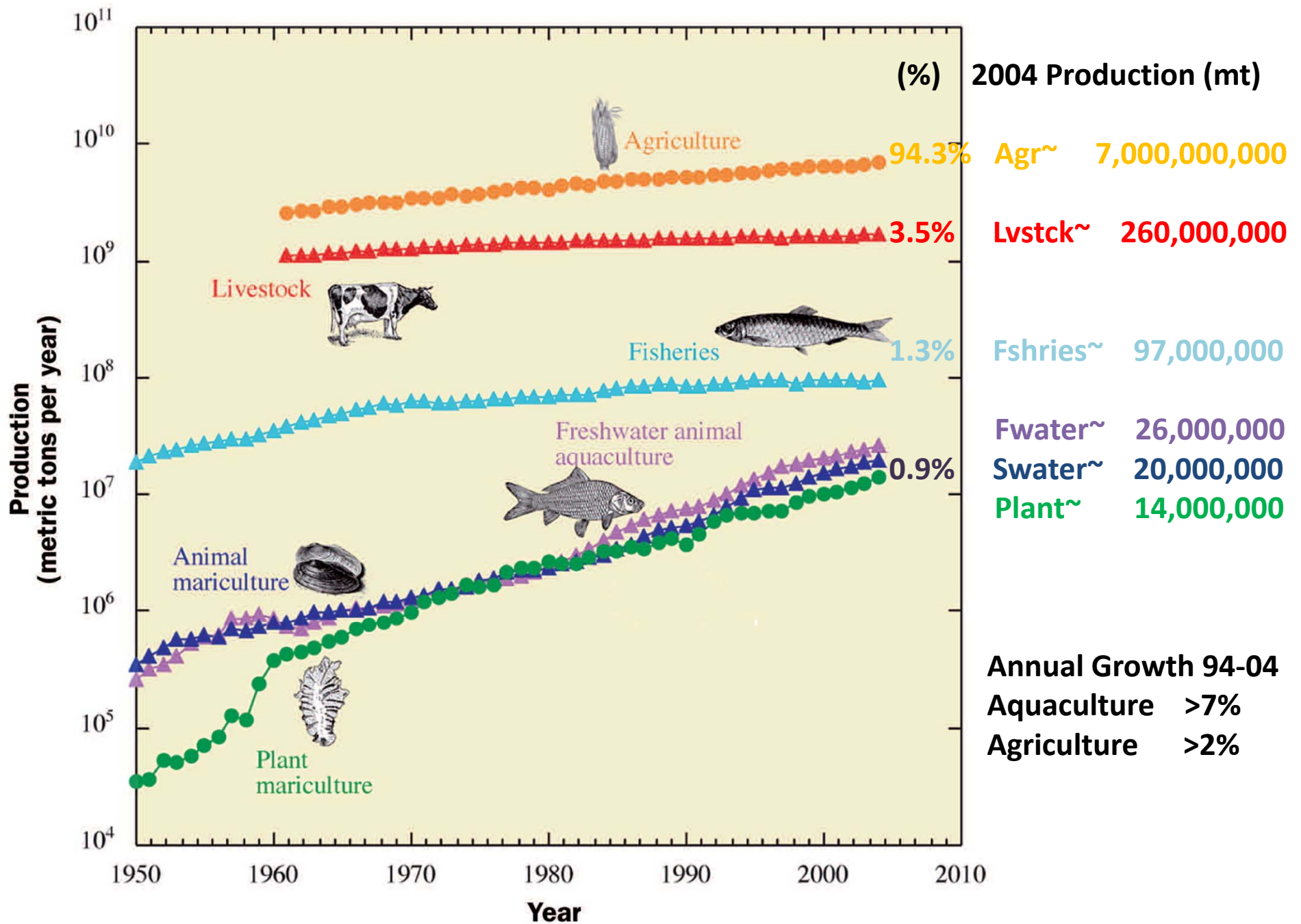


Trends in world aquaculture production 1970-2008



Note: NEI=not elsewhere included

(2008 Chinese production= 33 million tons)



Aquaculture and food security



 < 2 g
 2–4 g

 4–6 g
 6–10 g

■ > 10 g

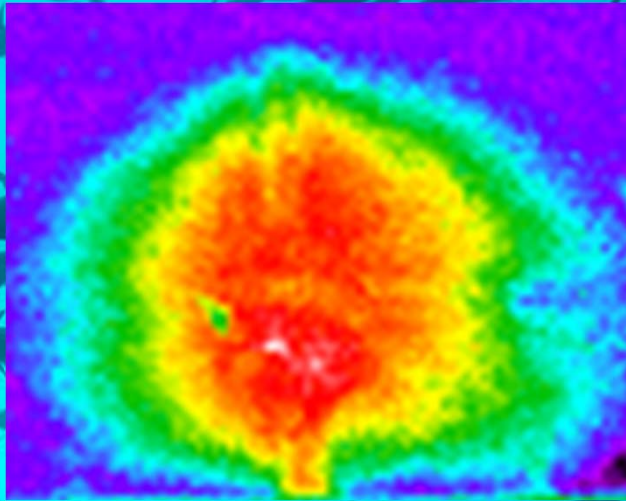
 > 20%

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



Bluefin tuna farming



Food security implications



Tilapia

Blue Ridge Aquaculture

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Environmental and food security Implications





Who should invest? In what?



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