

An Overview of the Present Market and
Trade Situation in the Aquaculture Sector
—
the Current and Potential Role of Organic
Products

Dr. Audun Lem

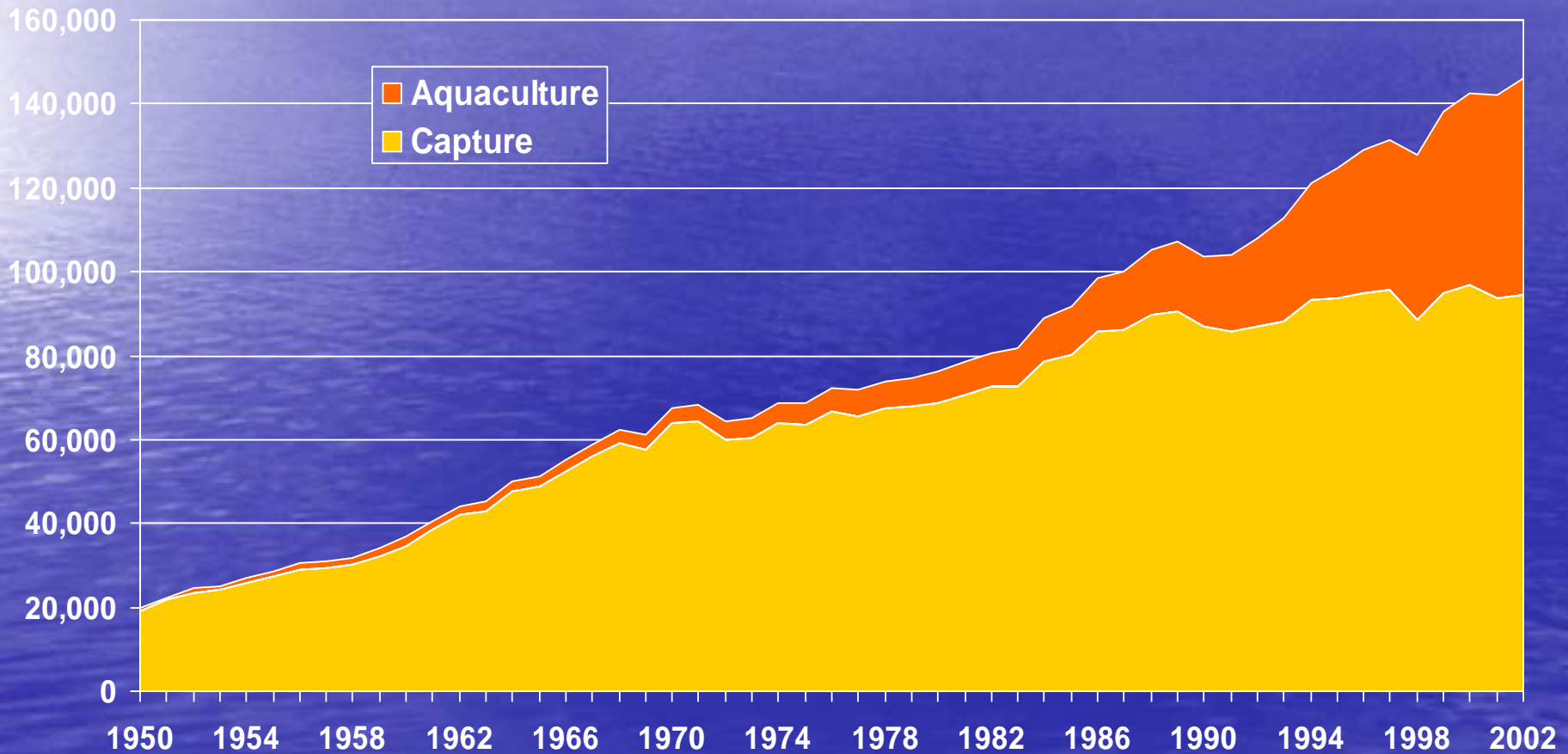
**FAO Fishery Industries Division
HCM City, Vietnam 15-17 June 2004**

Overview of my presentation

- World fish supply
- World aquaculture production
- World fish trade - trends
- World aquaculture trends and issues
- Issues that influence organic seafood sector
- Organic – present and future role
- Organic – challenges to be met
- Conclusions

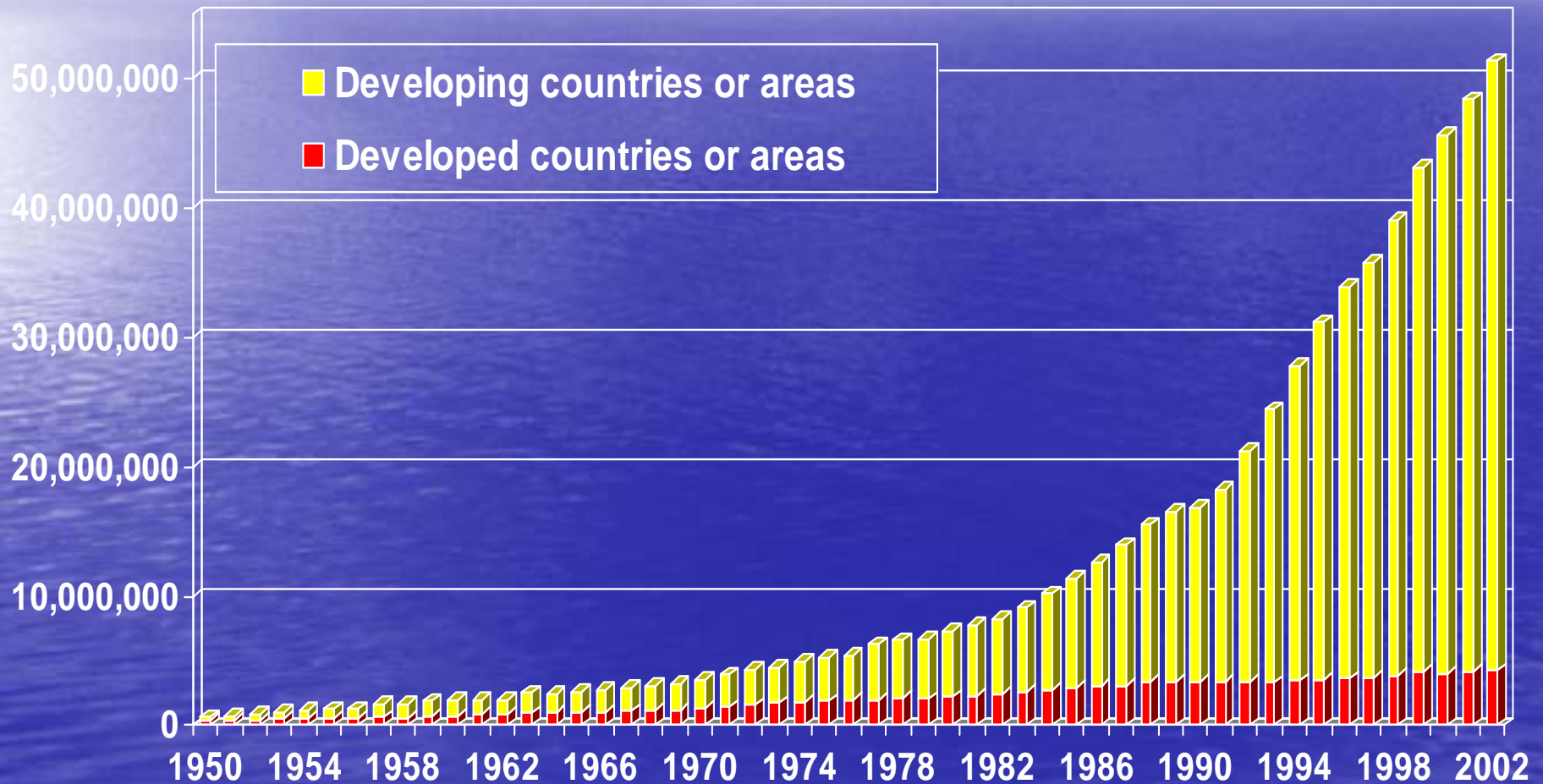
Total Fish Supply

- in 1,000 tons -



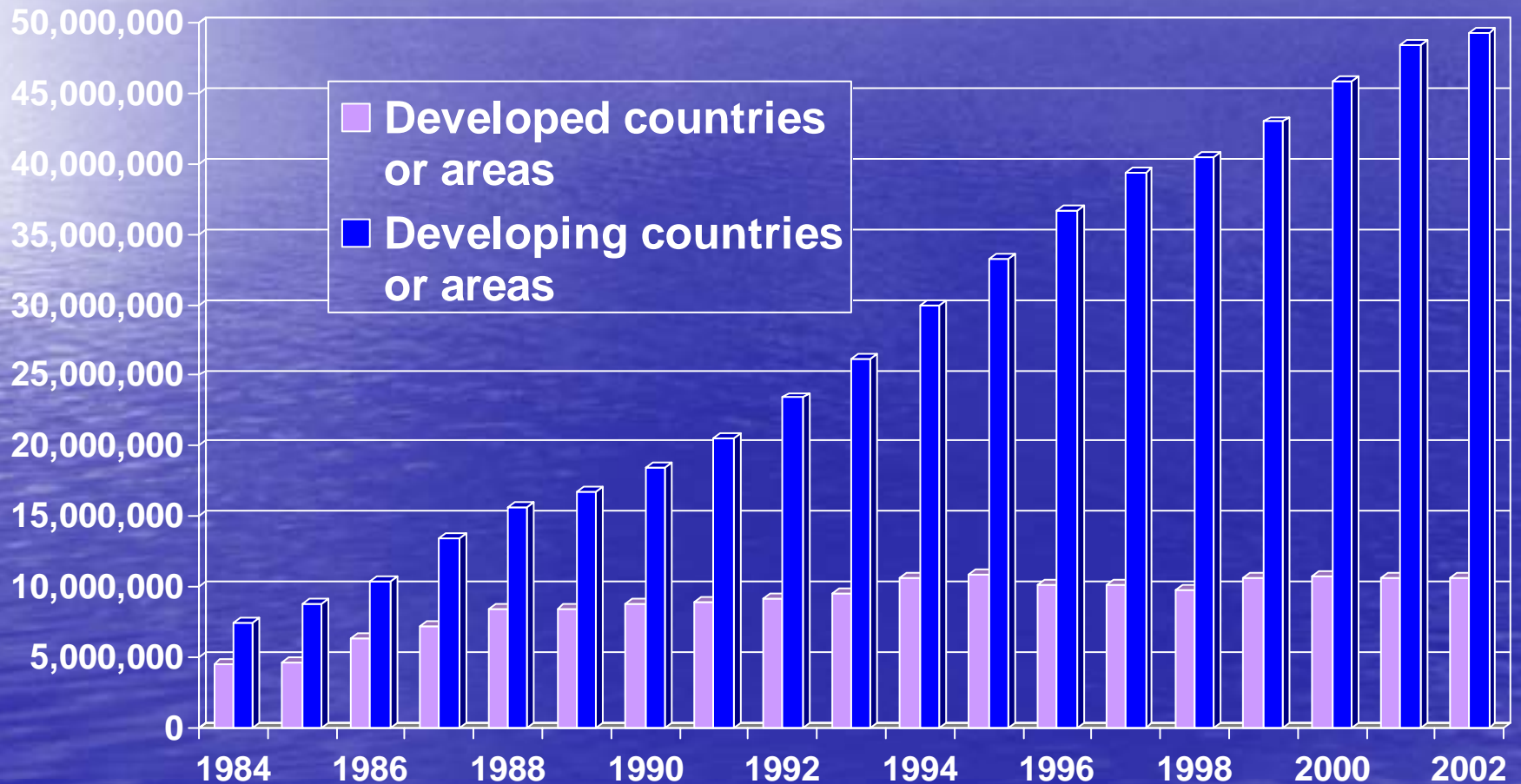
Aquaculture Production

- in tons -



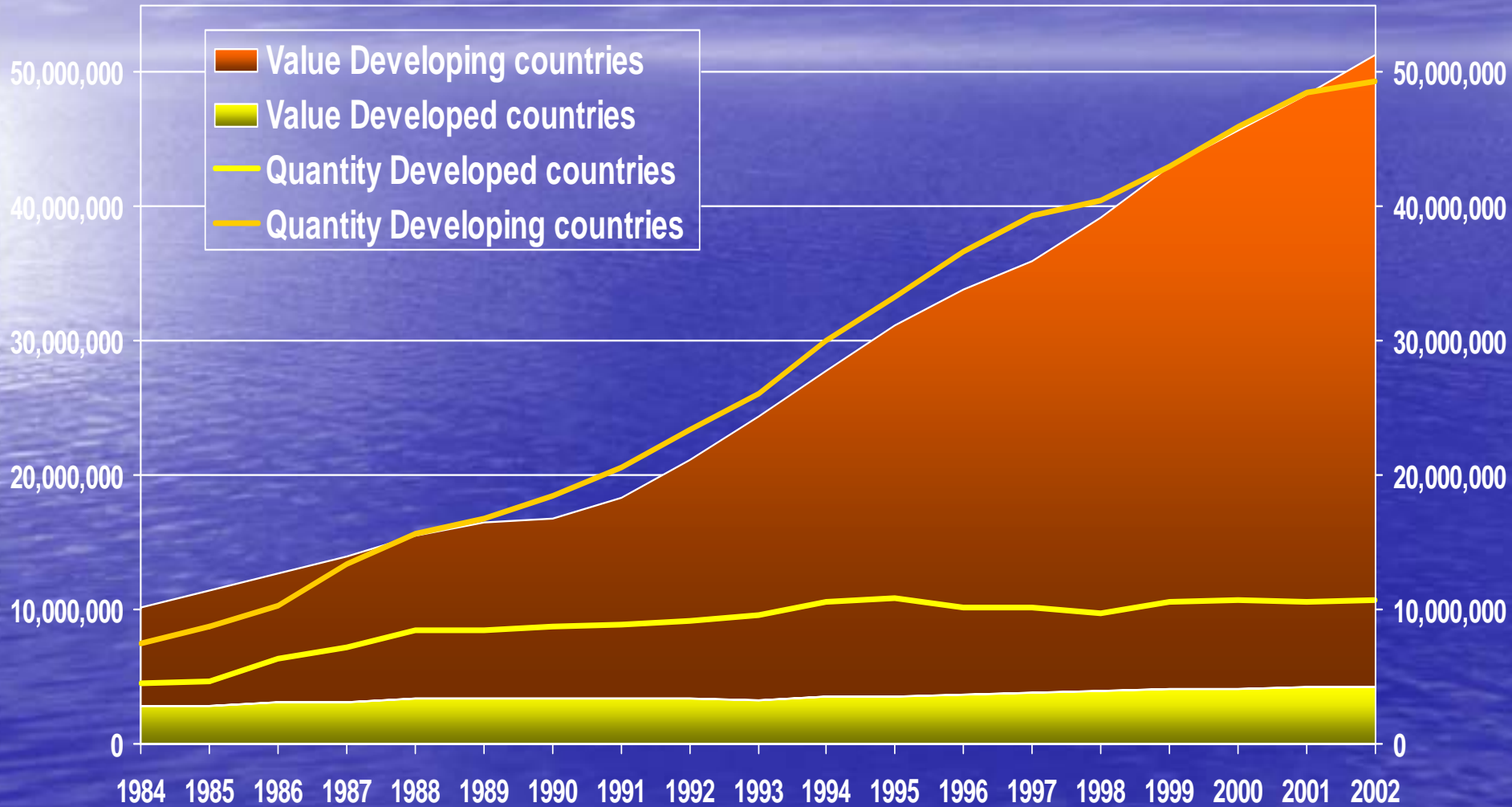
Aquaculture Production

- in US\$ -



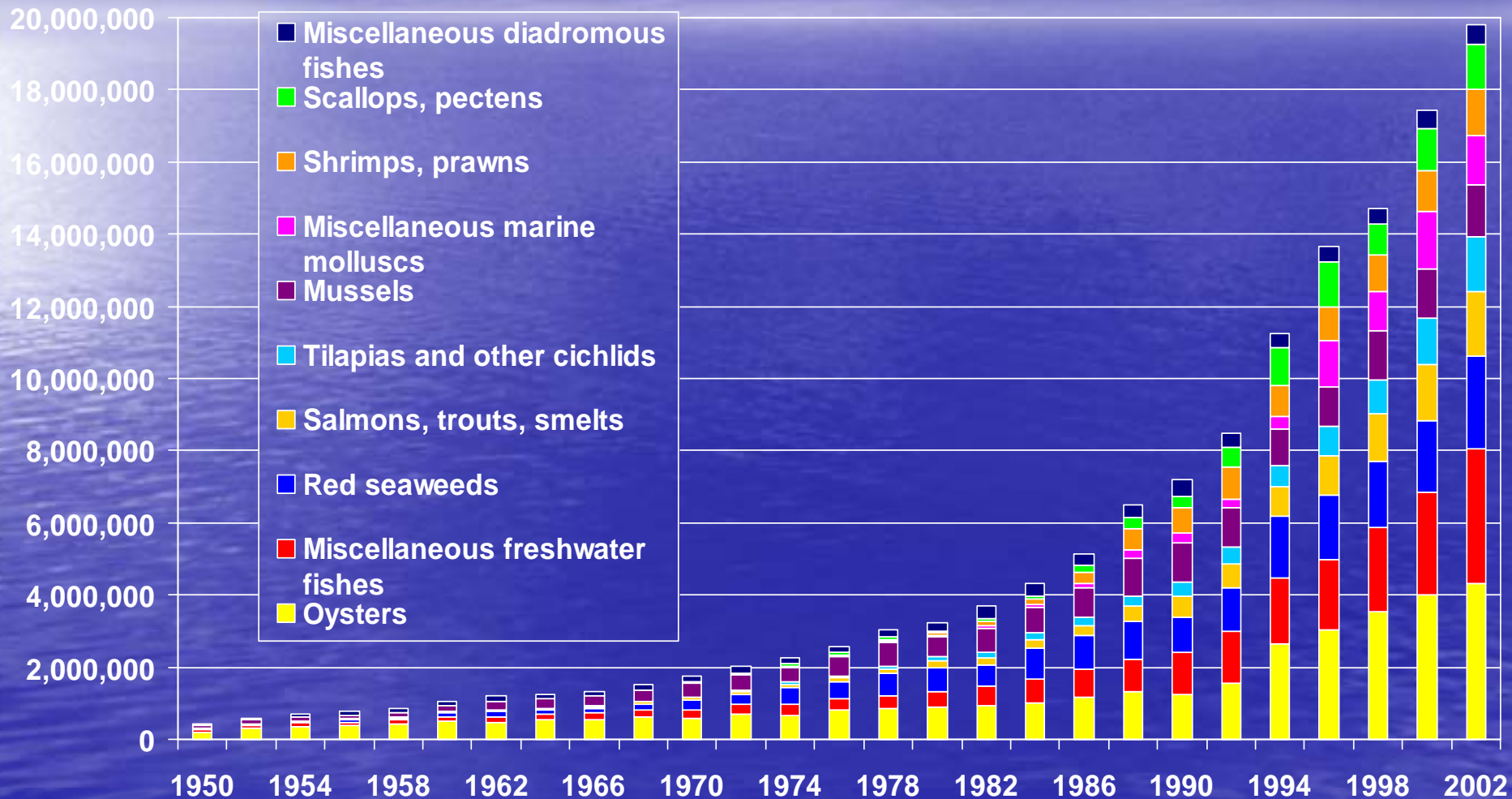
Aquaculture Production

- Quantities and Values -



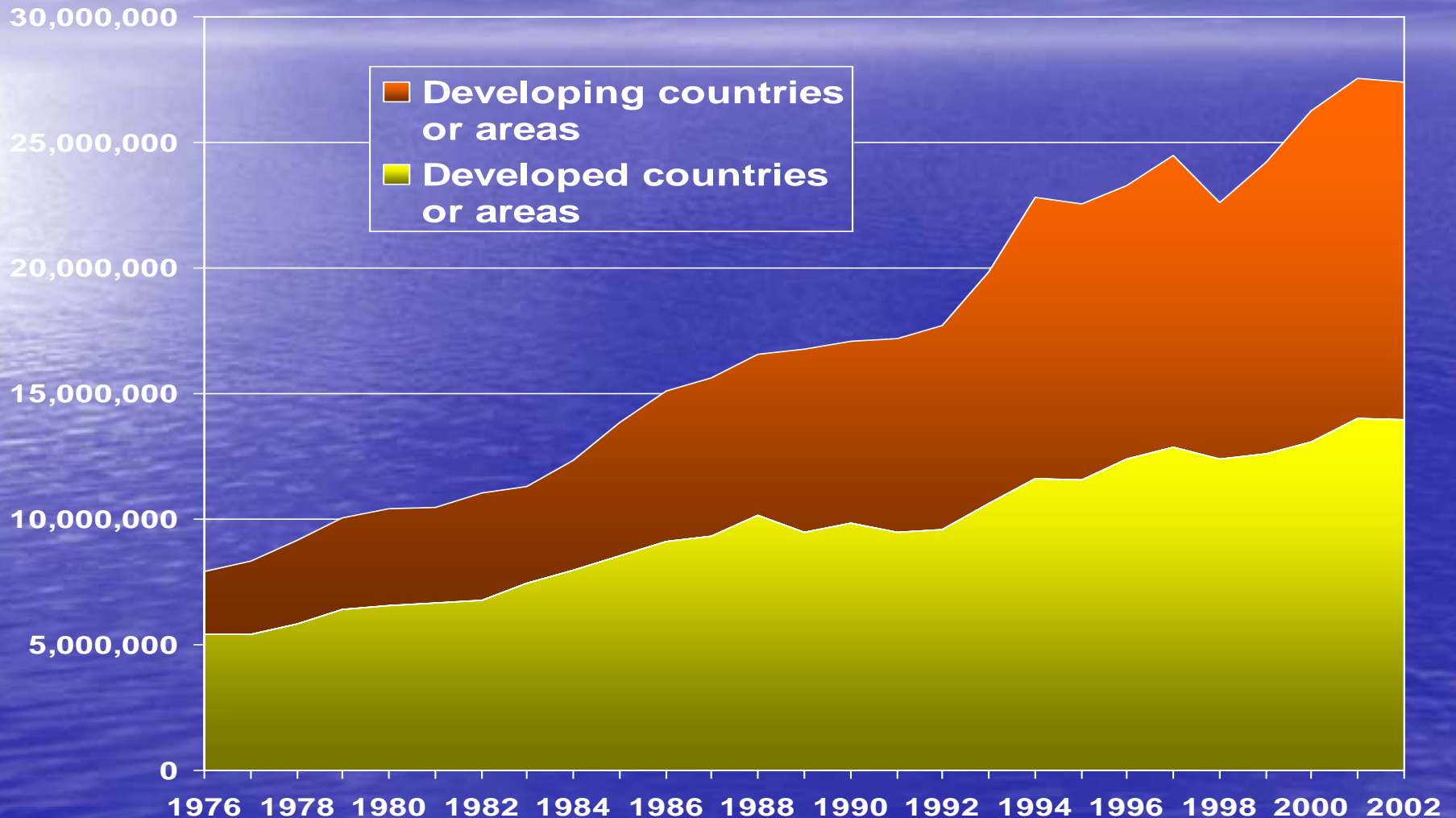
Aquaculture Production: Major Species

- in tons -



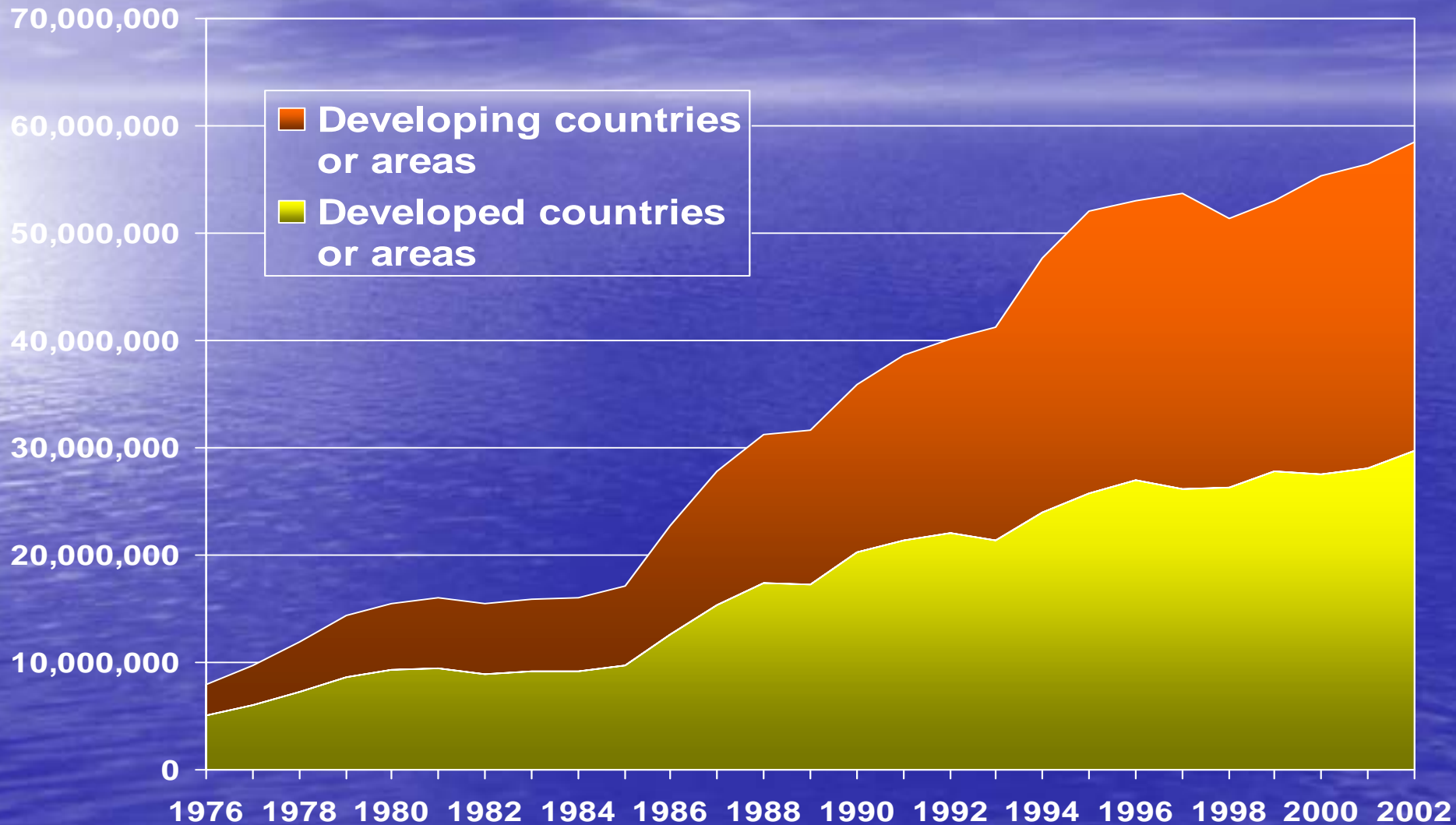
World Fish Trade: Export Quantities

- in tons -

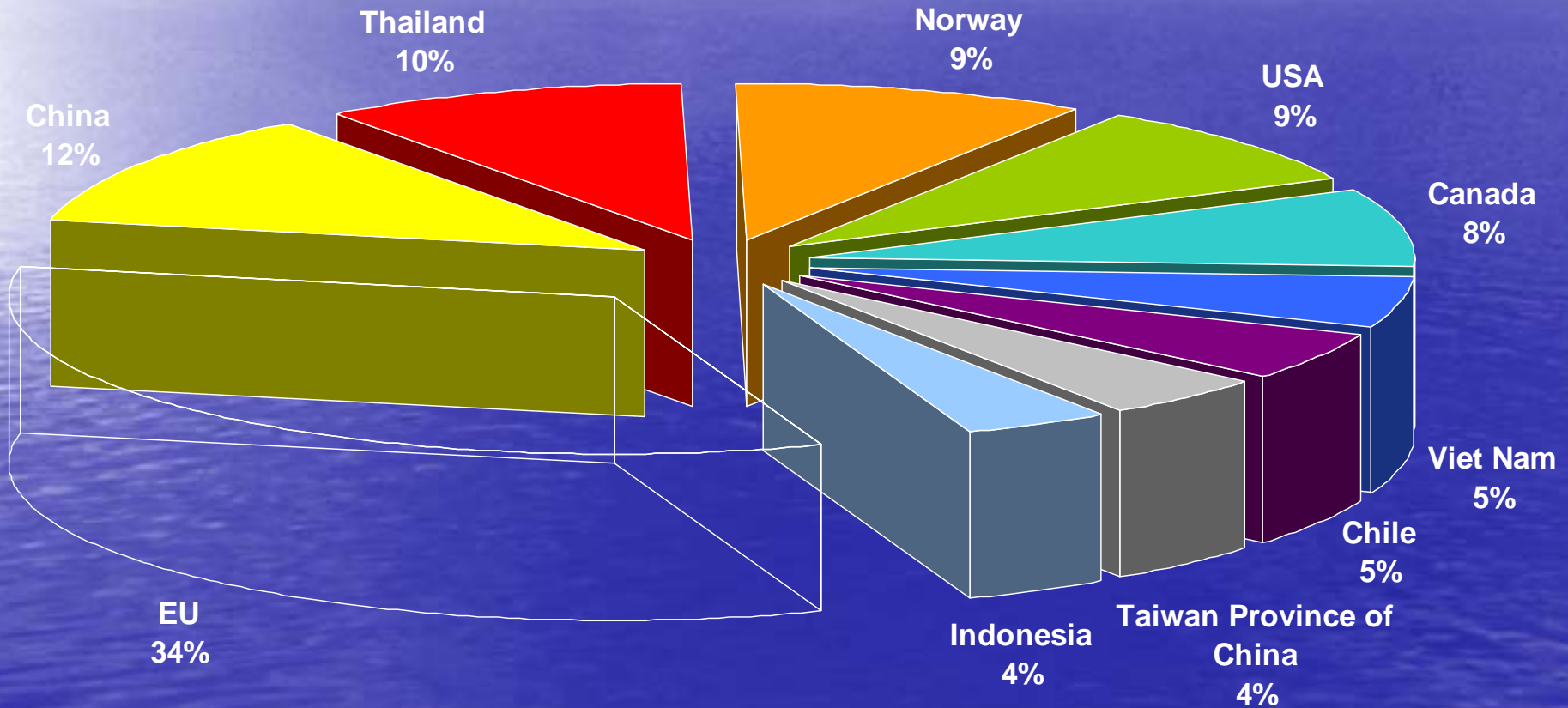


World Fish Trade: Export Value

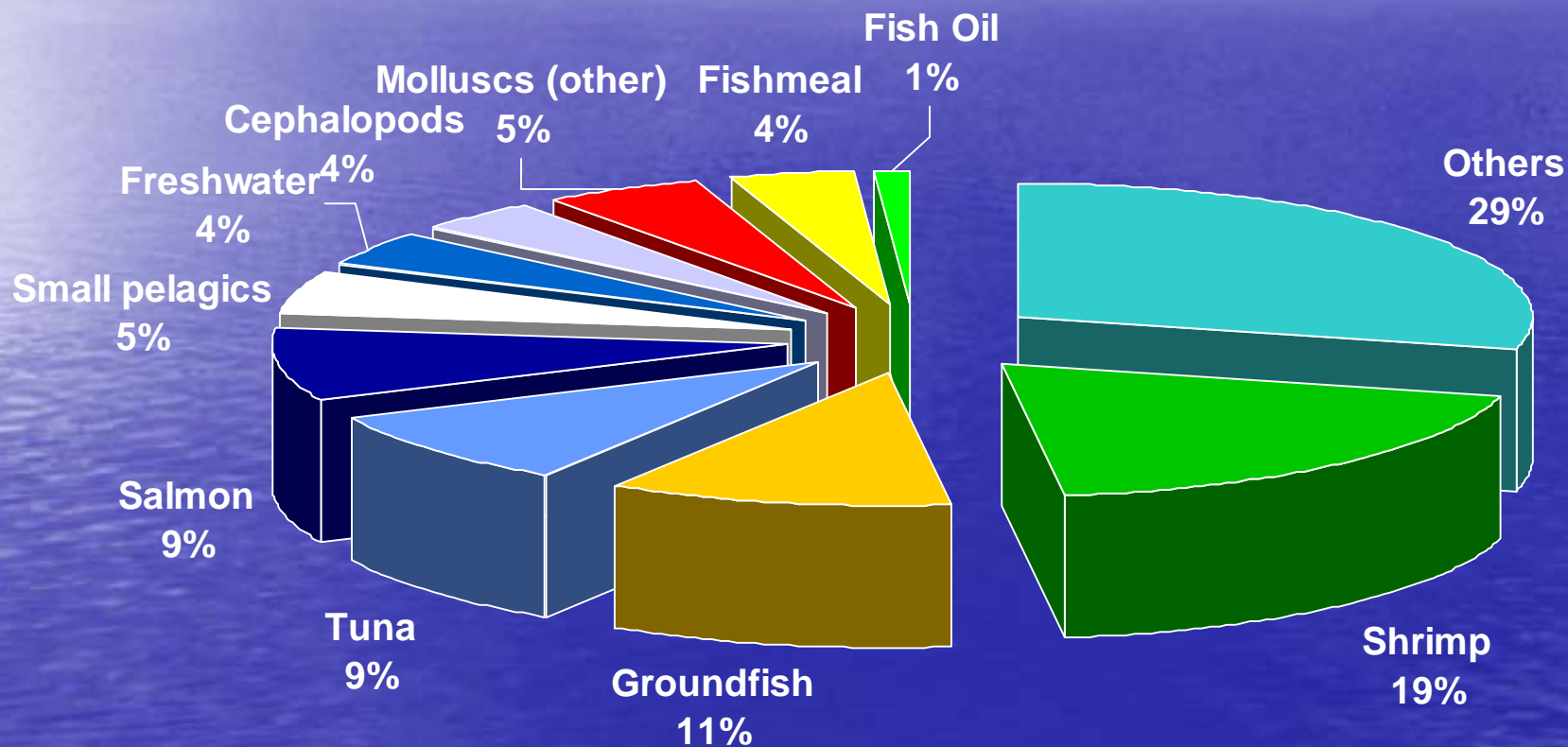
- in 1,000 US\$ -



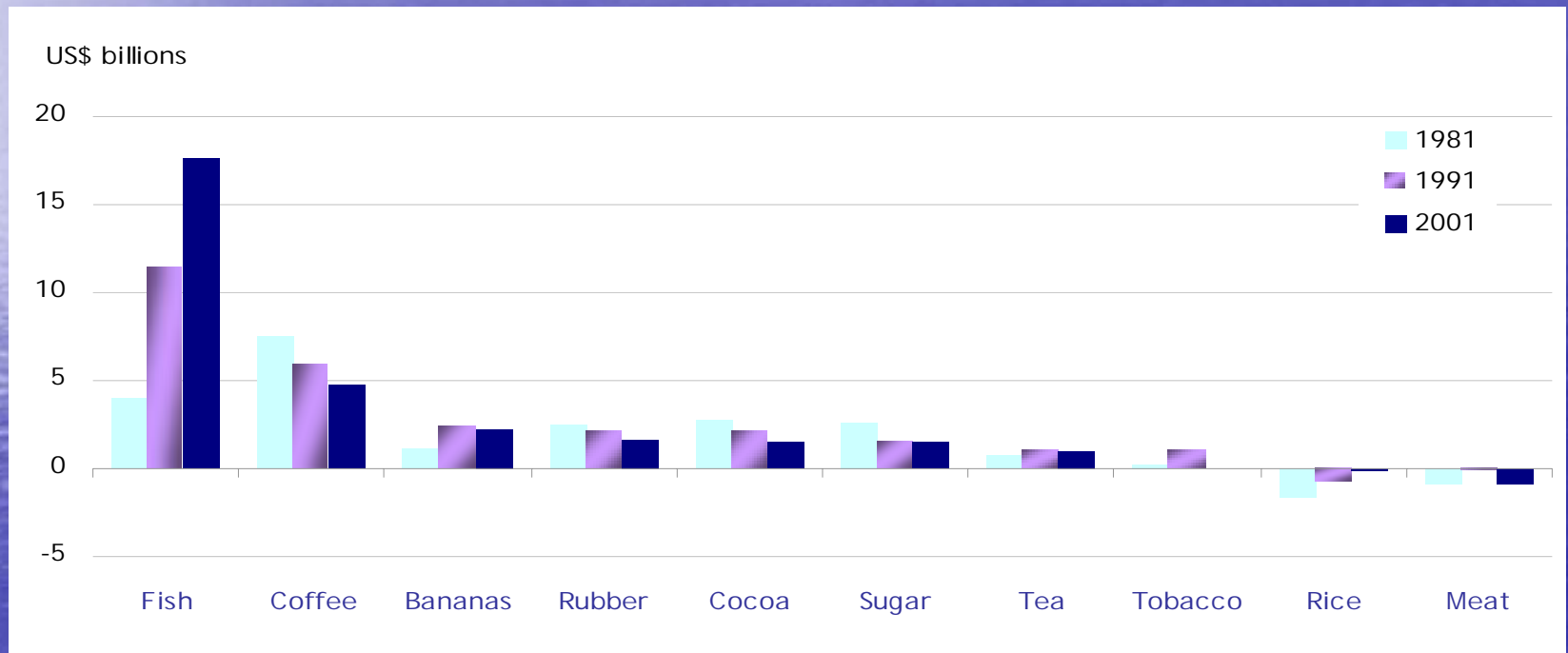
Main Exporters 2002 (Value)



Species Exported in 2002 (Value)

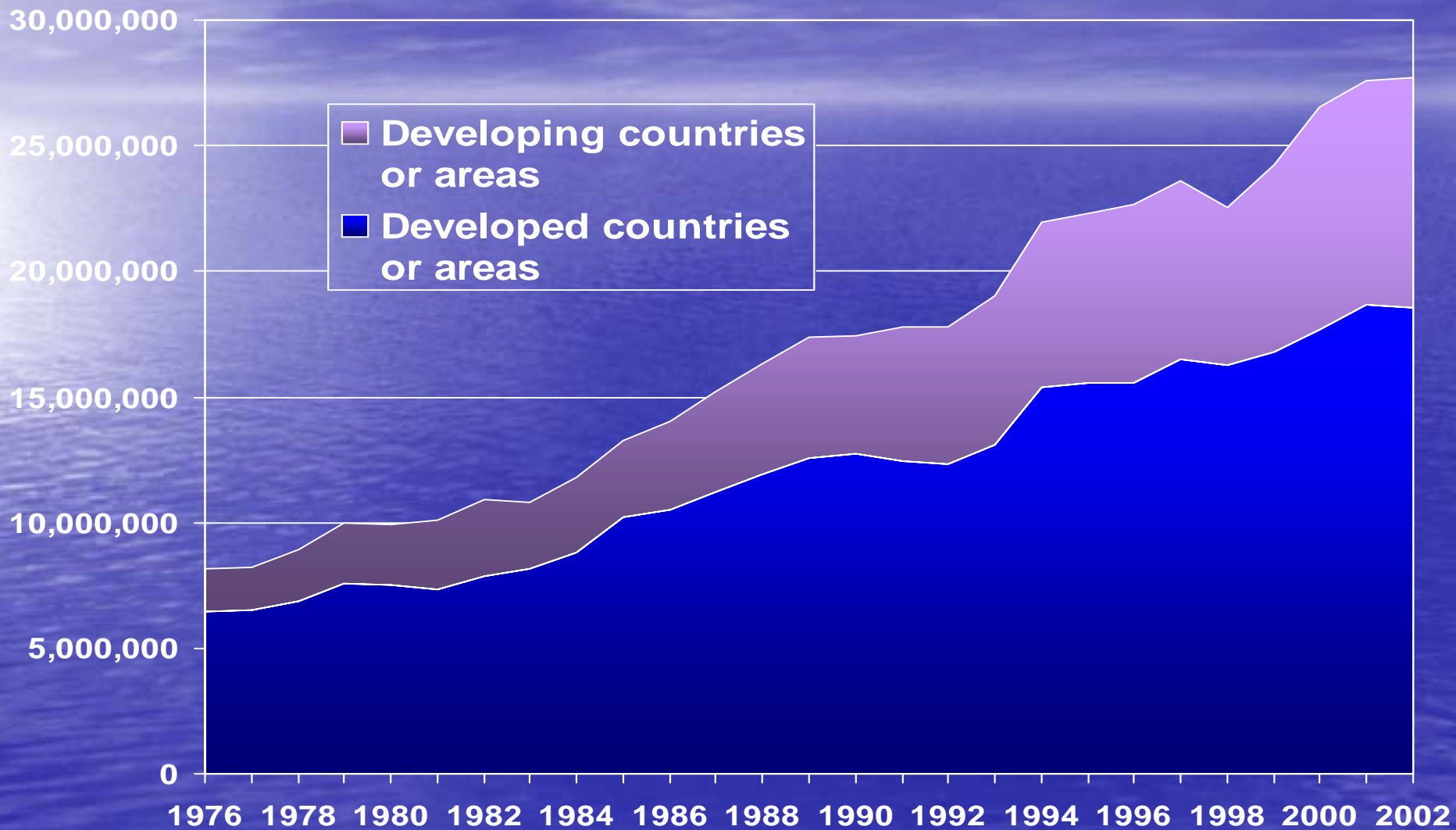


Net export earnings by commodity (developing countries)



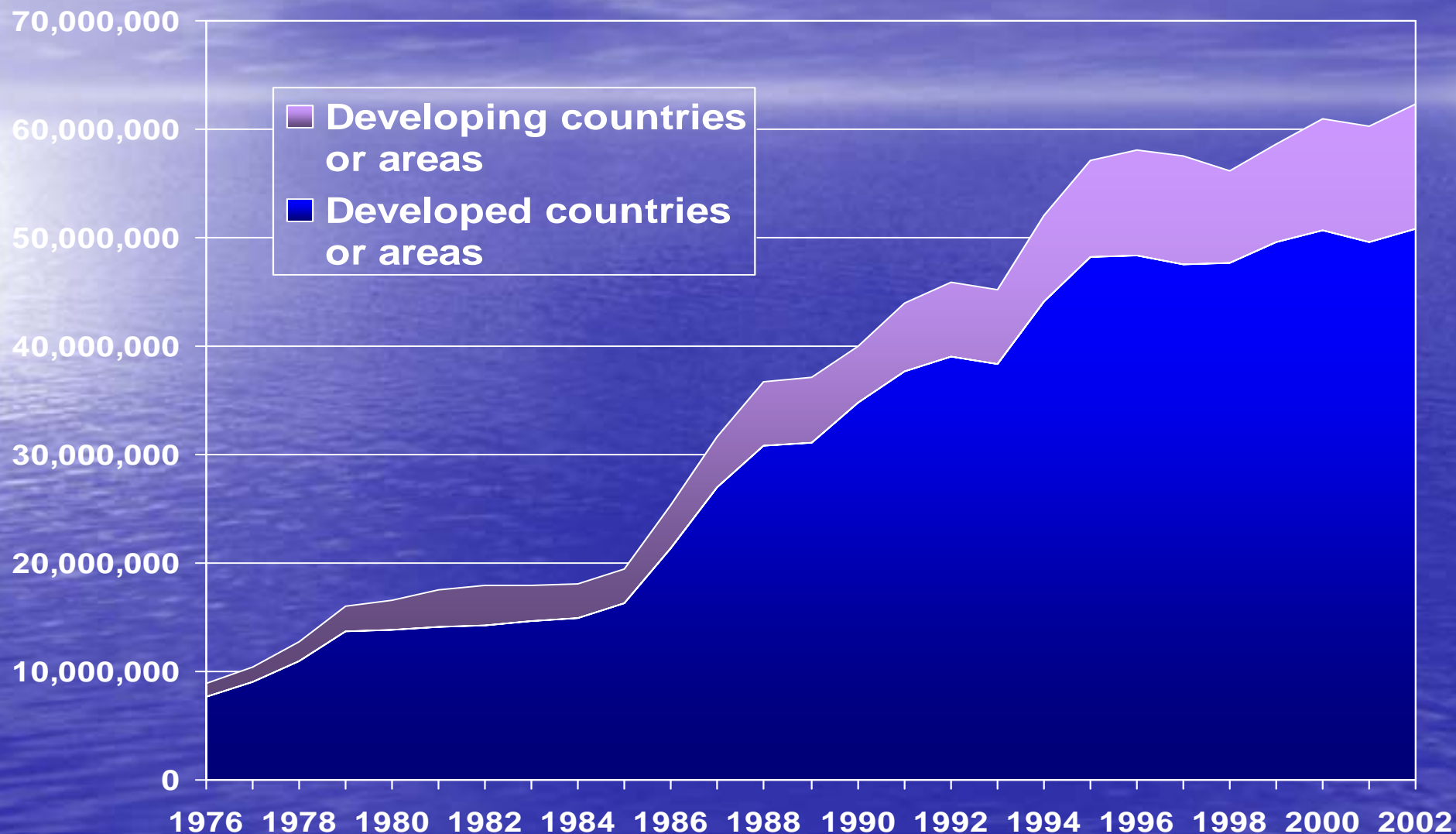
World Fish Trade: Import Quantities

- in tons -

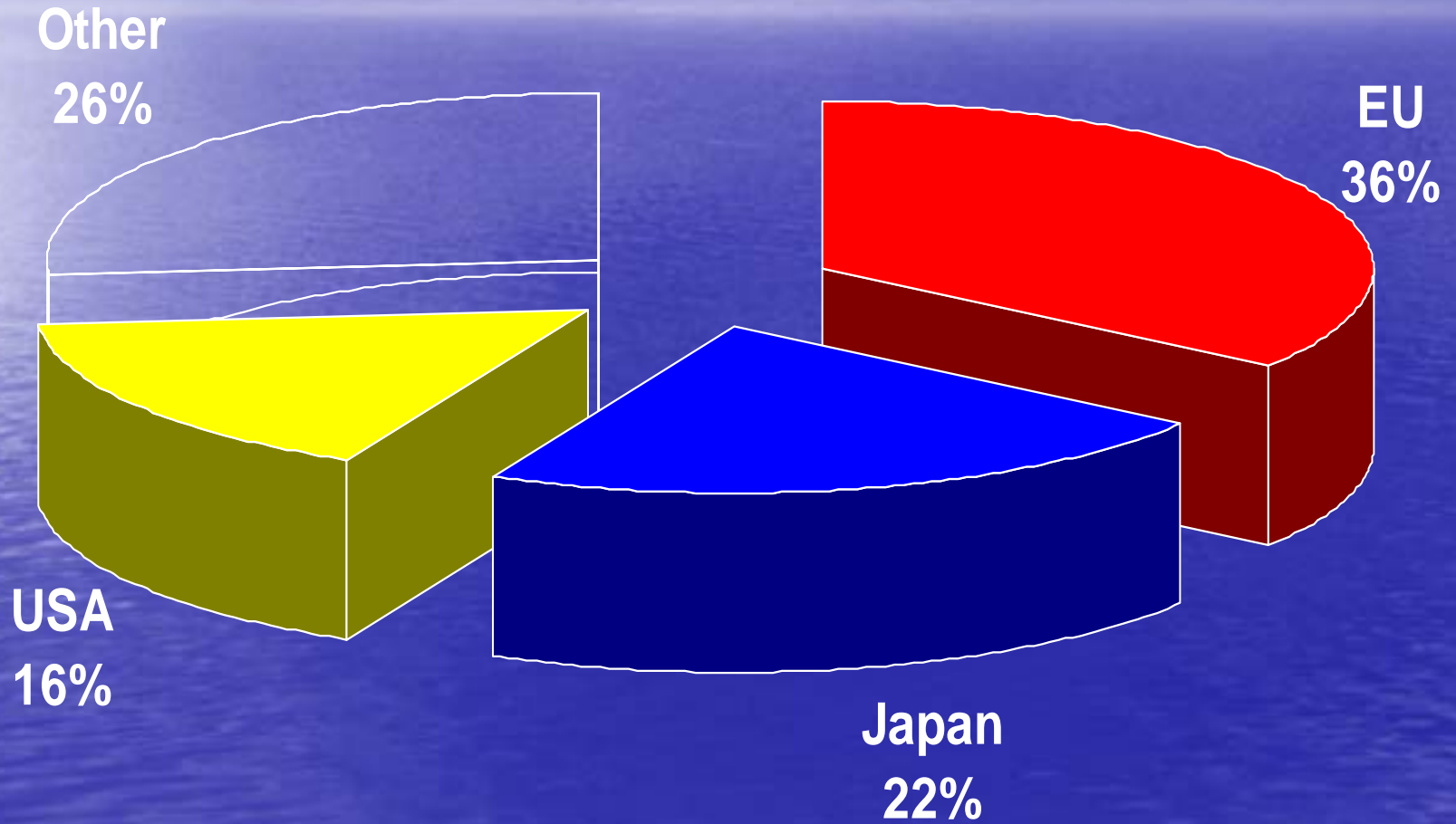


World Fish Trade: Import Value

- in 1,000 US\$ -



Main Importers 2002 (Value)



Aquaculture - Issues

- Growth: fastest growing sector of world food production
- Issues mostly driven by consumer needs and perceptions which force government action
- Food safety
 - Stricter labeling
 - Traceability for food safety reasons
 - Antibiotics-feed-ingredients
- Environmental concerns
 - Eco-labels
- Trade issues
 - WTO
 - trade liberalization but also more trade-related disputes between countries
- Production: New fish demand must be met by aquaculture

Organic – its role today

- We have seen total aquaculture production grow, approaching 50 million tonnes
- Organic production: limited
 - 10,000 – 25,000 tonnes ?
 - Today, much less than 1%
 - However, growth is strong

Organic food

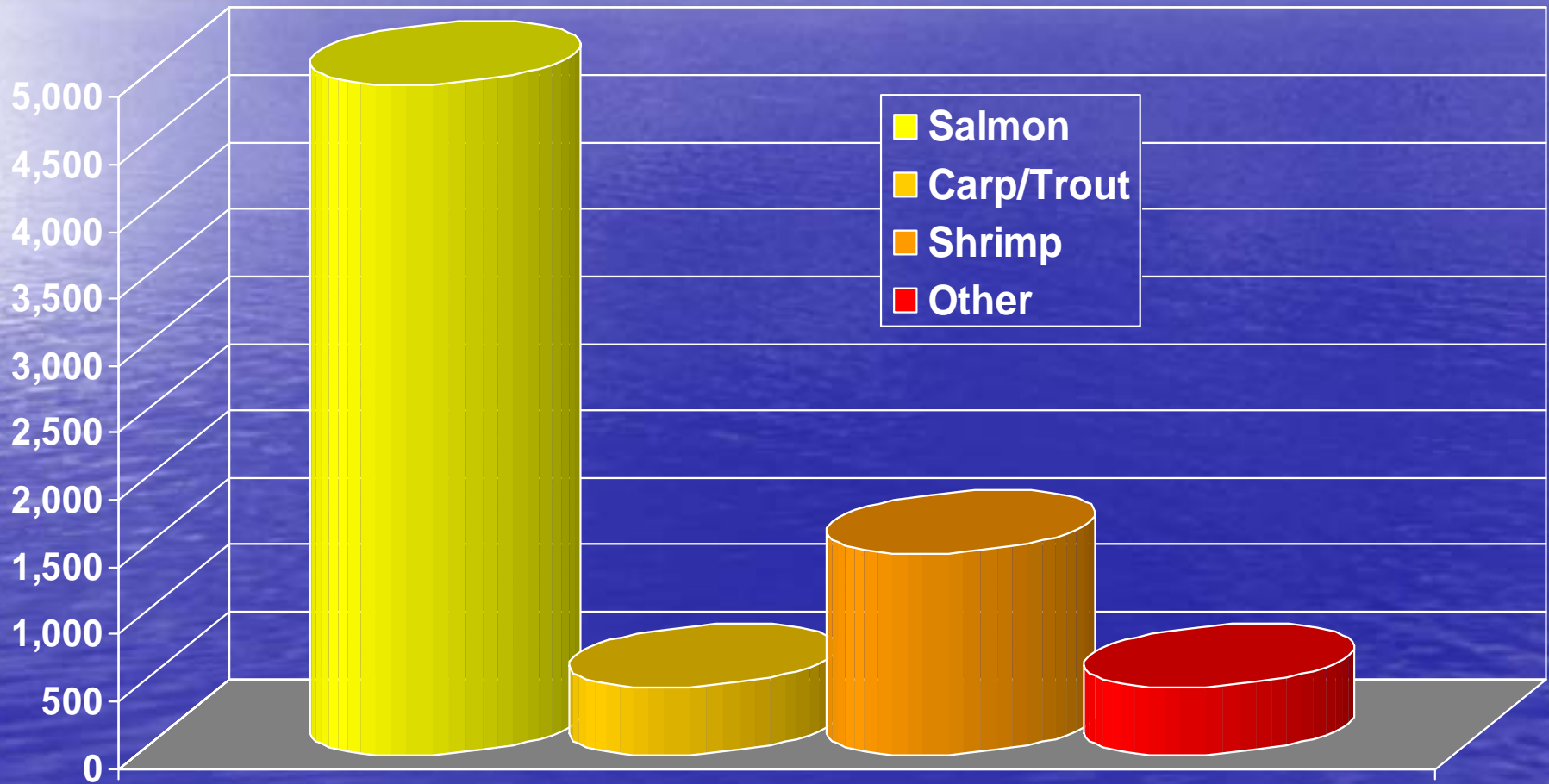
- Organic seafood a sub-market of the organic food market
- Growth in organic food market: + 5-20 % per year

Organic Food Markets

MARKET	ESTIMATED RETAIL SALES (US\$ billion)	ESTIMATED ANNUAL GROWTH 2003-2005 (%)
Germany	2.8-3.1	5-10
UK	1.6-1.8	10-15
Italy	1.3-1.4	5-15
France	1.2-1.3	5-10
USA	11.0-13.0	15-20
Canada	0.9-1.0	15-20
Japan	0.4-0.5	20

Organic Aquaculture Production in 2003

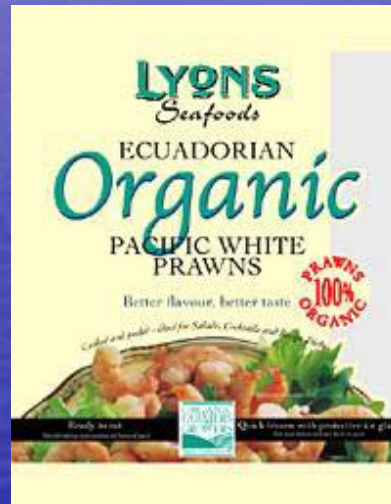
- estimate, in tons -



Main Organic Aquaculture Production

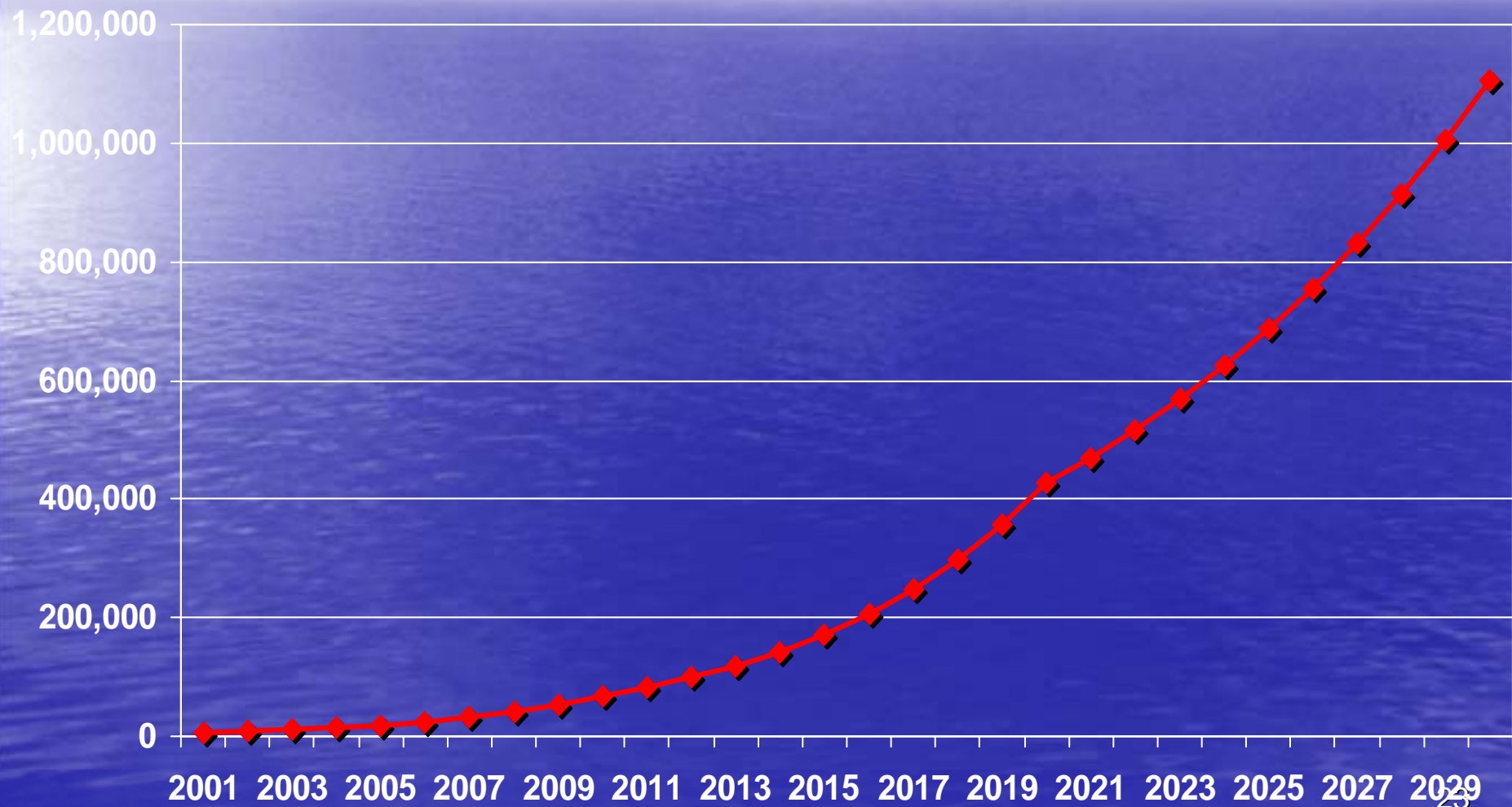


Some Organic Aquaculture Products



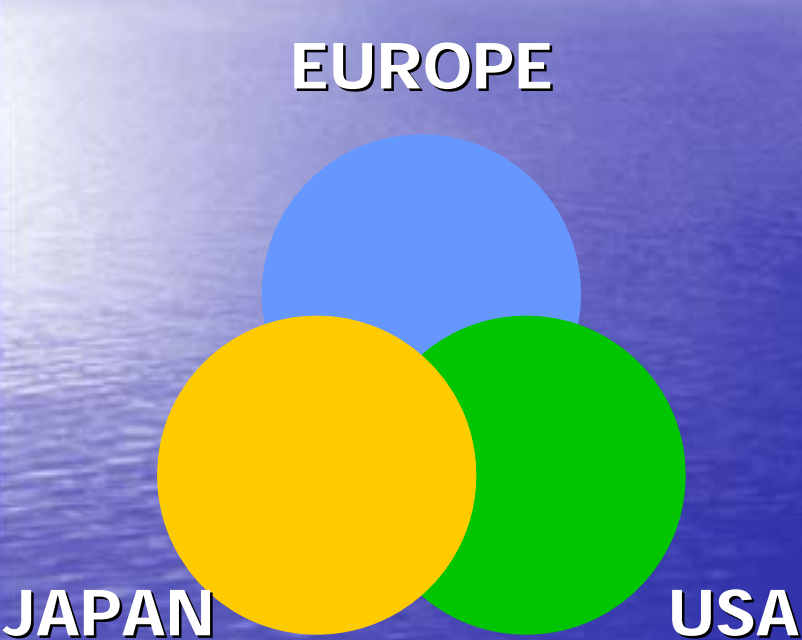
Outlook - Organic Aquaculture Products

- in tons -



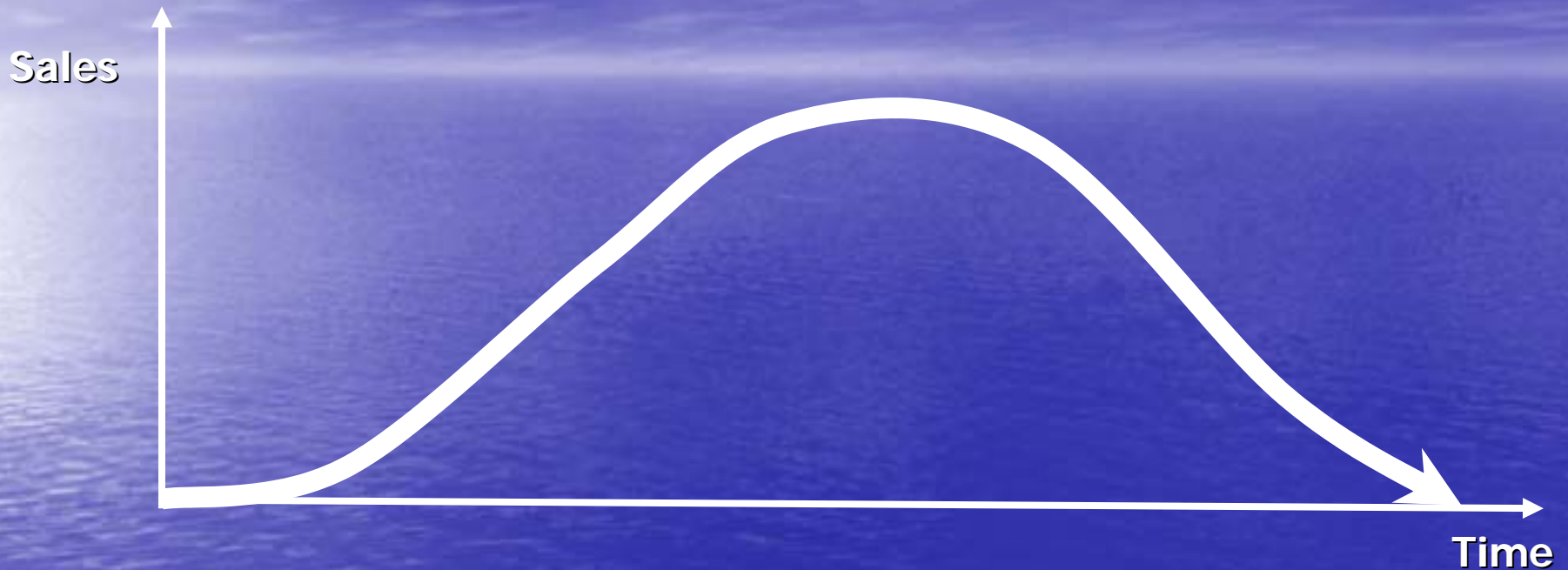
Organic Food and Drink Markets

- figures for 2002 -



- **WORLD:** US\$ 23 Billion
- **USA:** US\$ 11.85 Billion
- **EUROPE:** US\$ 10.5 Billion
 - **Germany:** US\$ 3 Billion
 - **UK:** US\$ 1.5 Billion
 - **Italy/France:** US\$ 1.3 Billion each
 - **Switzerland:** US\$ 0.8 Billion
- **JAPAN:** US\$ 0.5 Billion
- **Latin America:** US\$ 0.1 Billion
- **Oceania:** US\$ 0.2 Billion

Product Life Cycle



Introduction

➔ **Organic Aqua-culture products**

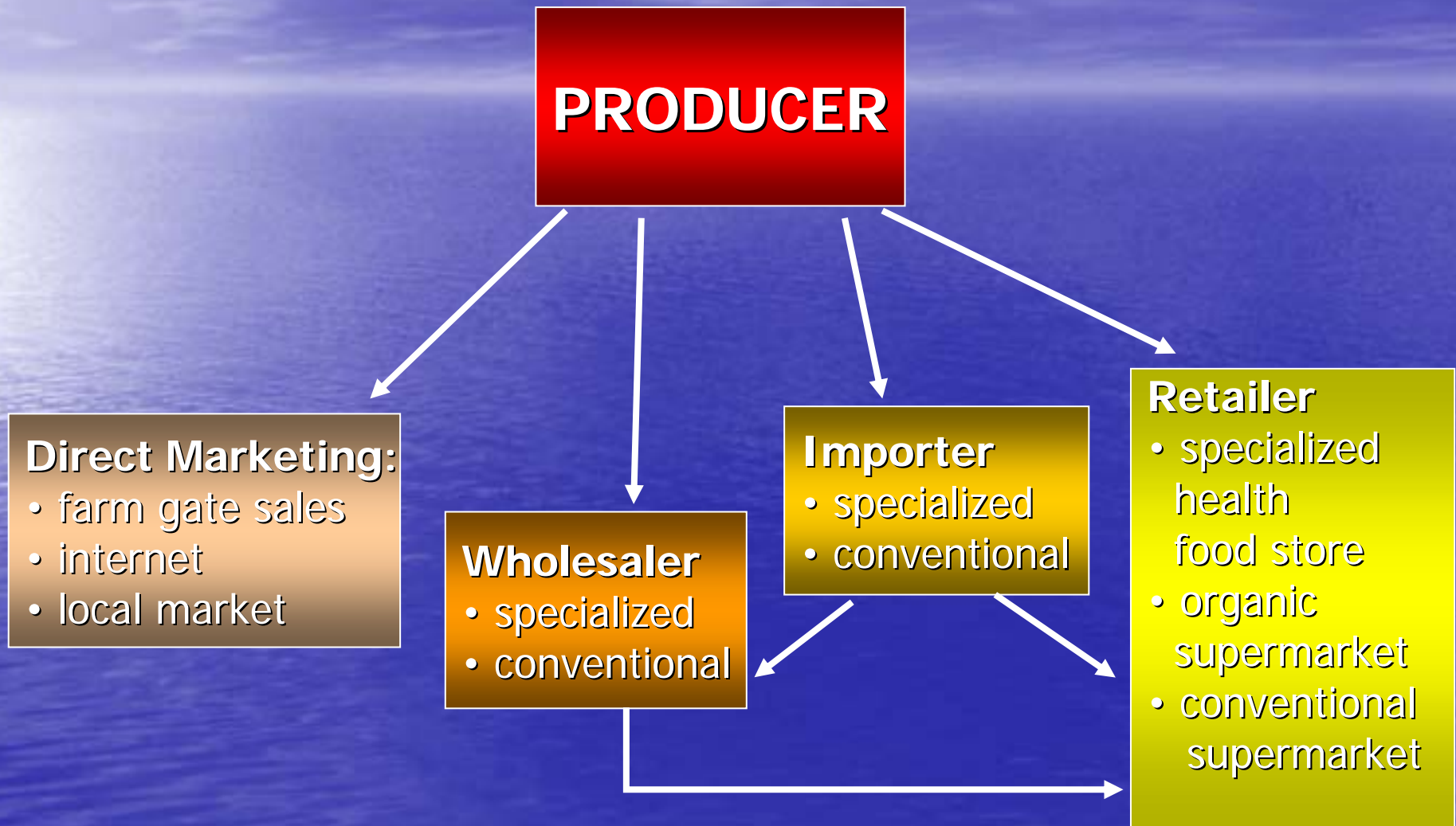
Growth

Organic vegetable/
fruit products
non-organic
aquaculture products

Maturity

Decline

Organic Distribution Channels



The Consumer

- Who are the consumers ?
- Why do they want organic ?

Organic Consumers

ORGANIC CONSUMERS

'HEAVY USERS'

YOUNG FAMILIES WITH SMALL CHILDREN and OLDER PEOPLE

OCCASIONAL CONSUMERS

Motivation

- Environment concern
- Health concern
- Ethic aspects

Purchase Location

- Traditional Health Food Stores
- Food Stores
- Local markets

Motivation

- Health concern
- Environment concern
- 'Consumer-friendly'

Purchase Location

- Traditional Health Food Stores
- Conventional supermarkets
- Organic supermarkets
- Local markets

Motivation

- Life Style aspects
- Gourmet/Quality considerations
- Health concern

Purchase Location

- Conventional supermarkets
- Organic supermarkets



What about prices ?

- We know that most consumers are price conscious (“demand is elastic”)
- Organic products carry a cost premium and a price premium
- What is the limit ?

Organic Food Consumer Behaviour

Most European consumers are price sensitive:

56% accept a premium of more than 15%

33% accept a premium up to 15%

11% do not accept any premium

Organic Food Consumer Behaviour

How many European consumers buy organic?

17% of consumers buy regularly

51% of consumers buy organic once in a while

32% of consumers never buy organic

What are today's main obstacles to growth?

- Lack of uniform standards – a problem for producers and for consumers
- Narrow product and species range (but growing)
- Slow penetration into mainstream distribution channels (but encouraging signs in some markets - COOP)

A myriad of aquaculture standards

- BioErnte (Austria)
- BioGro (New Zealand)
- BioSuisse (Switzerland)
- Naturland (Germany)
- KRAV (Sweden)
- Red Label (Denmark)
- Soil (UK)



Solution to standards ?

- CODEX on organic food products in general
 - Still nothing on organic aquaculture
- European Union: pan-European standard ?
 - Organic agriculture standards under review now
 - Seafood to be integrated into new standards
 - When ?
 - 2006 ?

Also Opportunities

Good consumer acceptance

Lack of supply, in volume and in range of species

Fair trade concept – producer involvement

“

Stakeholder participation in standard setting

Conclusions I

- World fish trade is growing
- Exports of aquaculture products are growing
- Organic seafood: production limited but strong growth
- Problem of getting into mainstream distribution channels
- Scale is necessary in sales and marketing: Critical mass to get retail and consumer attention

Conclusions II

- Today: Myriad of standards creates consumer confusion
- Needed: International standards
 - Major markets: EU initiative (world # 1 market)
 - USA: ??? (wild vs farmed, lack of standards)
 - Japan: ?
- Organic: future important sub-sector in aquaculture
- To reach potential: develop both supply and demand side
- Creates important benefits for producers and for consumers

EPILOGUE

- Maybe raised more questions than answers ?
 - I have mentioned some aspects of the sector and raised some general issues
 - Indicated weaknesses but also some strengths
- Next presentations will bring the discussion forward with more concrete information and show the way ahead

Where Do We Come From? What Are We? Where Are We Going?



P. Gauguin

Ca'm o'n qui' vi

**THANK YOU
FOR YOUR ATTENTION**