

***Approaches to Poverty Alleviation in Rural Coastal
Communities in Malaysia
Attempts at Using the Blue Economy as
Sustainable Income Generations
OYSTER FARMING***

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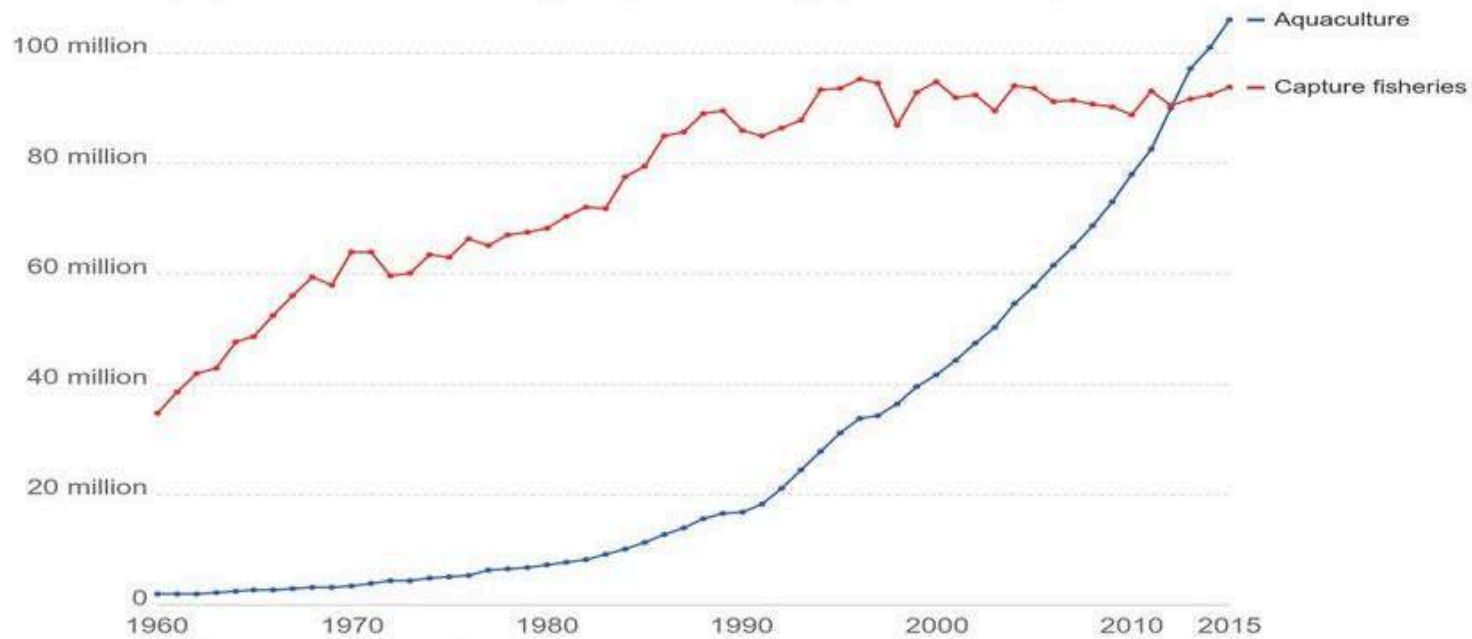


Capture Fisheries Declining

Capture fisheries vs. aquaculture (farmed fish) production, World

Annual production of seafood from wild-catch fisheries and aquaculture (farmed seafood) practices, measured in metric tonnes per year. Data is inclusive of all aquatic species, including aquatic animals and plants.

OurWorld
in Data



Source: World Bank- World Development Indicators



Problems faced by fishing communities

*Reduction in captive fisheries and resources;
and the use of traditional fishing gears*

- More than **90% of fishermen** received monthly income of <USD80/month



Oyster Farming?





THE BLUE ECONOMY.



uses smart shipping to lessen the impacts on the environment



is inclusive and improves the lives of all



harnesses renewable energy



is based on sustainable fisheries



takes action against illegal fishing



creates jobs, reduces poverty and ends hunger

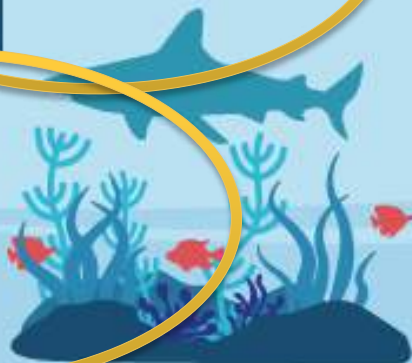


protects coastal communities from the impacts of climate change



tackles marine litter and oceans pollution

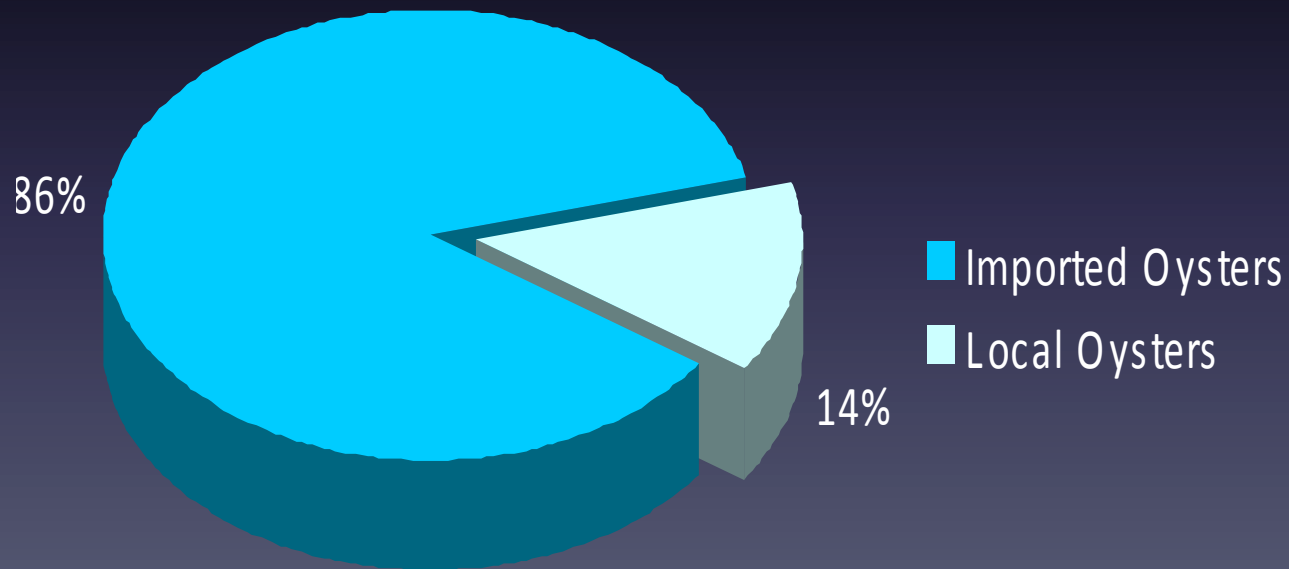
conserves marine life and oceans



Current Trade

(USD11 million in 2018)

Oysters in Malaysia



Why Oyster Farming?



Why Oyster Farming?

CLEAN AQUACULTURE

- No feeding
- No antibiotic
- No Mangrove cutting
- No by-product waste



Why Oyster Farming?

***CLEAN
AQUACULTURE***

***LOW
TECHNOLOGY***

Technology simplified and
tailored to Fishermen's level
of capability

Three Pillars of Sustainability



PEOPLE
SOCIAL

Measures social
performance including
quality of life



PLANET
ENVIRONMENTAL

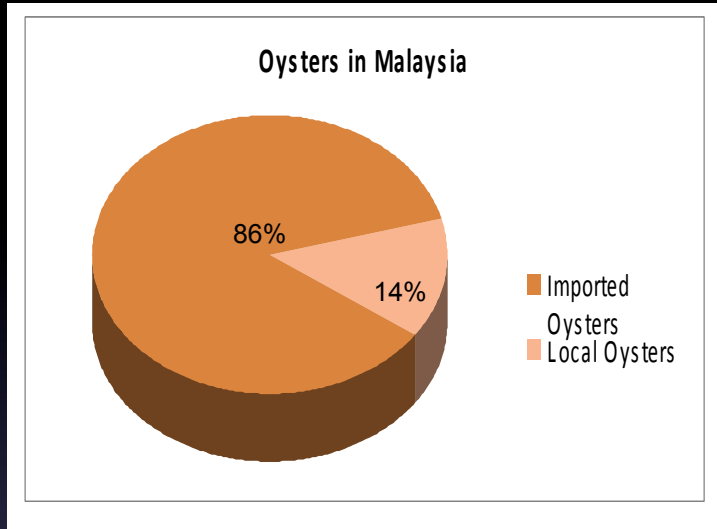
Captures 'green'
factors like energy,
pollution & emissions



PROFIT
ECONOMIC

Assesses business
environment &
economic health

Oyster Farming



- High market demand
- Low technology
- Low labour intensive



Can be handled on a part-time basis



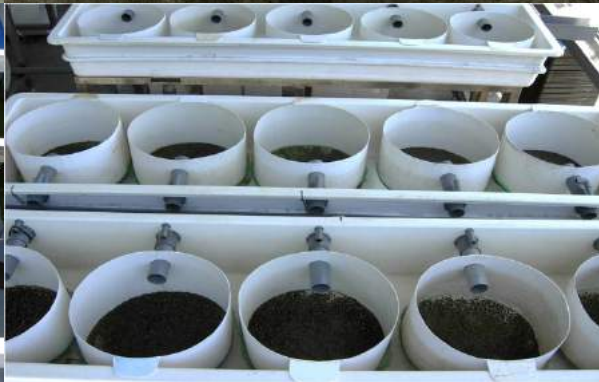
In year 2008....



1ST COMMERCIAL HATCHERY IN MALAYSIA



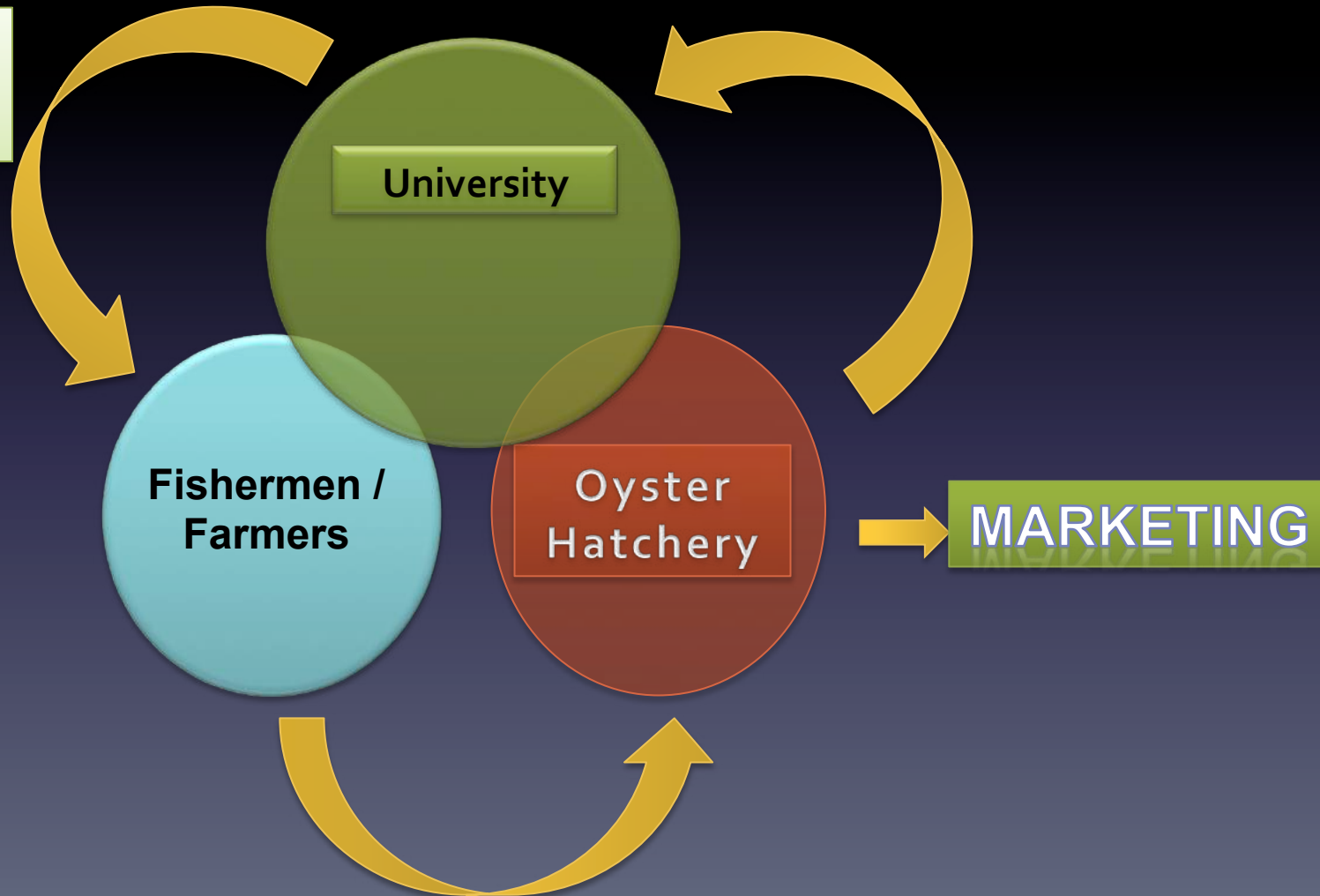
With the set-up of a commercial hatchery,
oyster seed supply is no longer a
bottleneck



TRANSLATIONAL KNOWLEDGE PARTNERSHIP

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Transfer the
know-how



Designing & Implementation of Social Innovation

Building of floating cages



Designing & Implementation of Social Innovation

Hands-on Training on Handling Oyster Seeds



OUTPUT

**Community is earning an extra of
USD1000 monthly**

Harvesting



Leadership and Social Entrepreneurship



**Involving womanfolks
and school children**

Other Countries

- China
- Vietnam
- Indonesia
- Hong Kong



USM
UNIVERSITI SAINS MALAYSIA



Developing Hybrids

Improve Survival

Higher Education Institution (HEI)

Cryopreservation

Identifying strains with higher tolerance towards Climate Change

Environment

Green Mariculture

Restaurants

Hotels

Private Sectors/
Industries

Marketing Agencies

Communities

Women Folks
• Cooking
• Cleaning/
Grading of oyster

Kids
• Part time job during school holidays

Entrepreneurs
• Tourism Package
• Homestay
• Retreat Package

Government Sector

TOURISM
MALAYSIA

MINISTRY OF
EDUCATION
MALAYSIA

Ministry of
Education



Jabatan Perikanan
Malaysia





OYSTER CULTURE

IMPACTS

From Sales of Oysters

- Income from USD80 increases to USD1000 per month

From Tourism Package

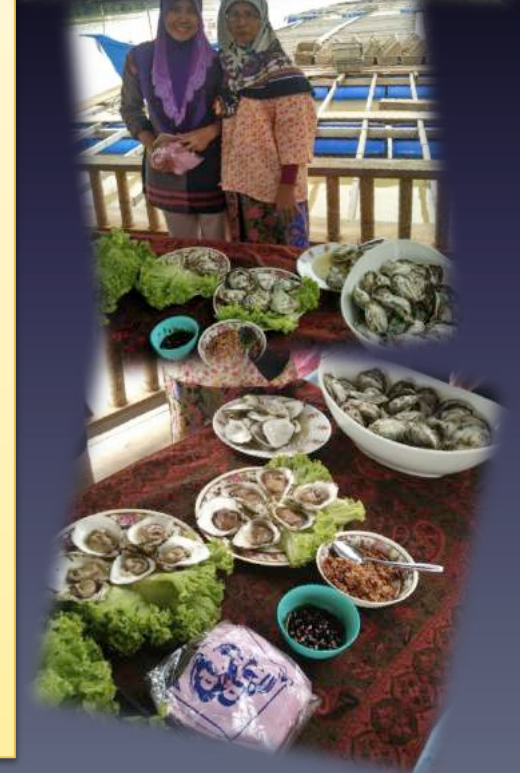
- Charging USD2 per pax for visit to oyster platform
- Charging USD10 per pax for visit to platform inclusive of light meals
- USD5 for 3 pieces of oysters

Opportunities for womenfolks

- Generating a minimum of USD80 per month for cooking

Opportunities for school children

- Avoid “lounging around” during school holiday or after school
- Cleaning trays, obtaining daily allowances about USD5 per day





2012



2013





2014



NOW.....
the change in lifestyle













With 29 years of experience and
success in oyster production.....
We can guide you



KEDAH



1. Kampung Batu Besi, Semeling
2. Pengkalan Tiram, Sg Dedap

PERAK



1. Kuala Pasir Hitam, Trong
2. Kuala Gula, Kerian
3. Telaga Nenas

SELANGOR



1. Pulau Ketam
2. Sabak Bernam
3. Tanjung Karang

JOHOR



1. Muar

TRENGGANU



1. Setiu

SABAH



1. Tuaran
2. Kudat

A Taste of French Oysters In Malaysia

Why Oyster Farming?

LOW TECHNOLOGY HIGH TOUCH

Technology simplified and tailored to Grower's level of capability

GREEN AQUACULTURE

No feeding

No Mangrove cutting

No antibiotics

No by-product waste



SUSTAINABLE DEVELOPMENT GOALS

Poverty eradication

Conservation

Economy
Environment
Society

SUSTAINABILITY

*First
Artificial
Shellfish
Centre
(1995)*



Malaysian oysters



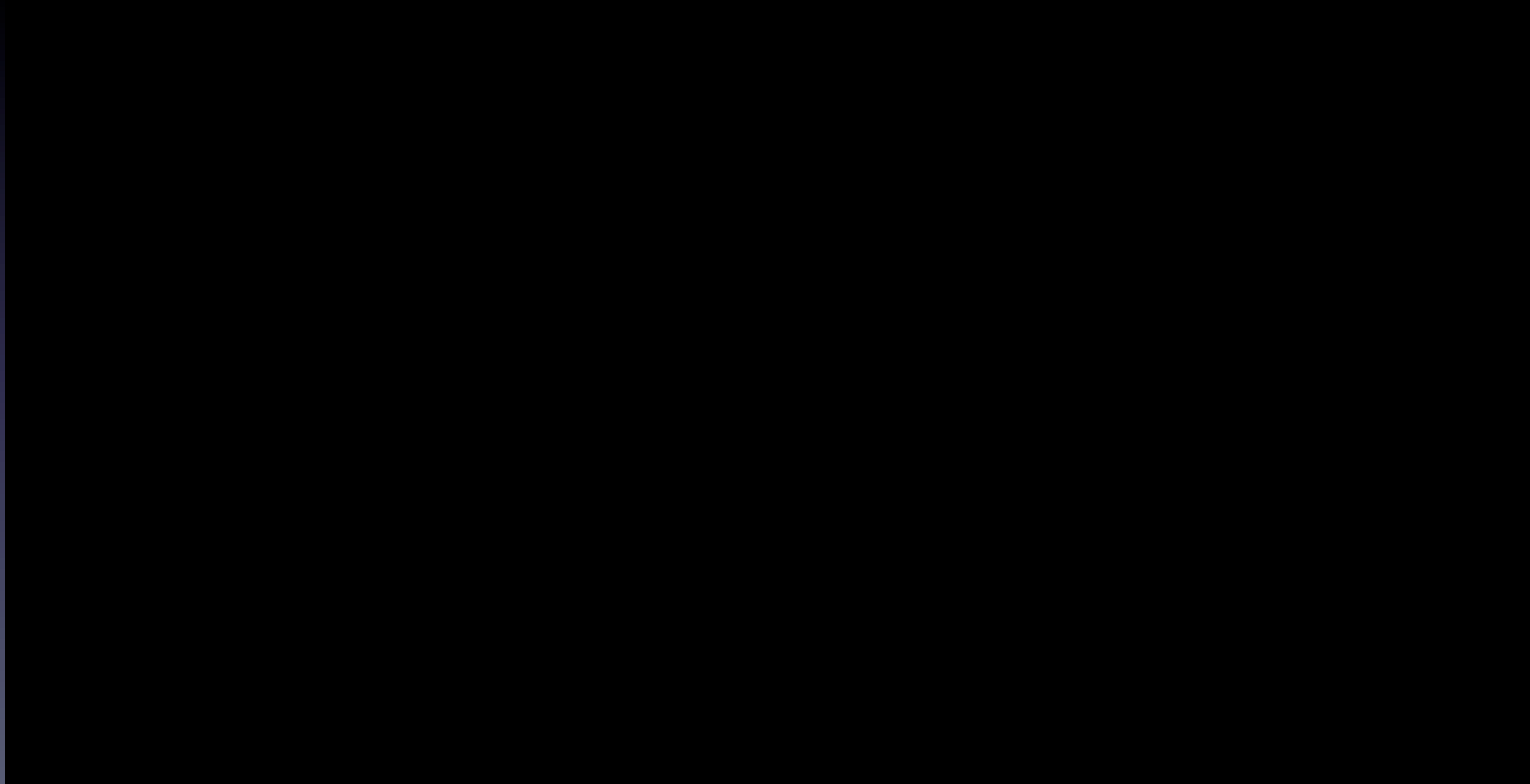
OYSTERS



- Fresh and succulent
- Healthy food (low cholesterol and high in vitamins and minerals)

A dozen oysters = quarter of an egg yolk





A top-down view of a dark-colored plate with a red and white striped rim. The plate is filled with several open oysters, showing their glistening, light-colored flesh. Three whole lemons are placed at the top left, and a single lemon slice is positioned at the top right. The background is a solid dark blue.

Thank You

Thank You