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# Aquaculture industry development and trend

**Presented by Animal Health BG**

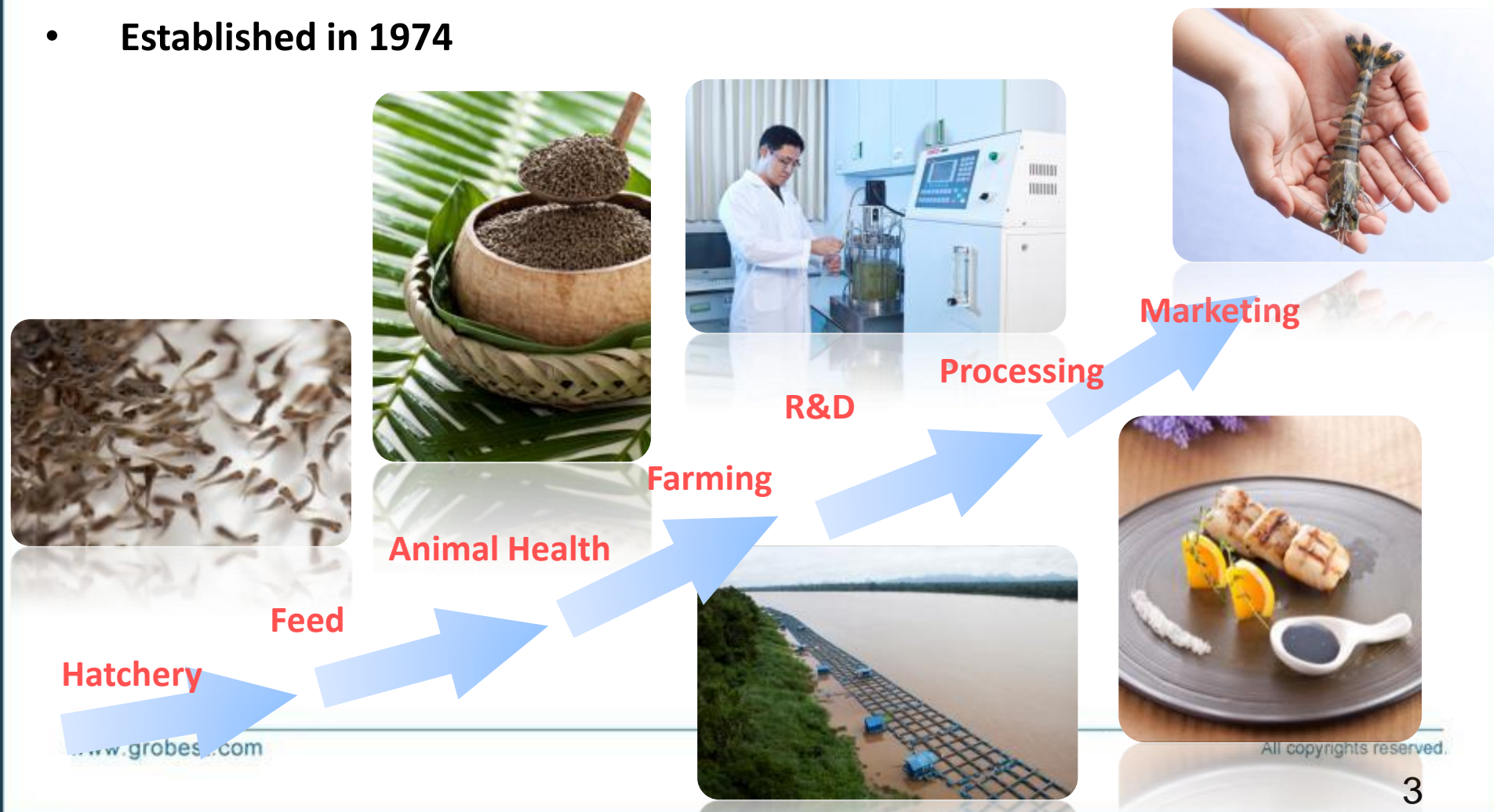
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# About GROBEST

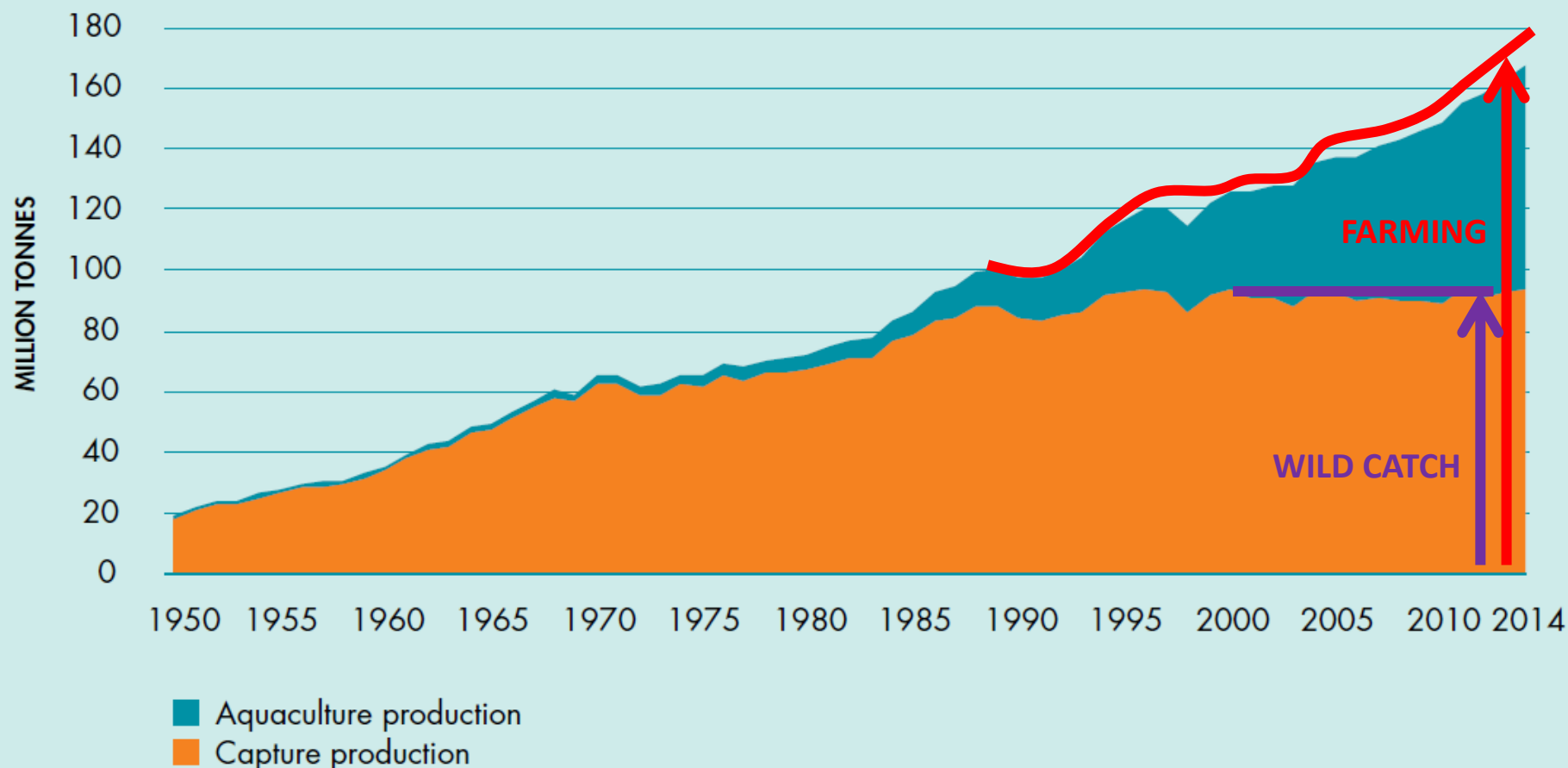
## Traceable and safe vertically integrated supply chain

- HQ : Taiwan
- Established in 1974



## About excellent protein

Capture production has reached the maximum quantity from 15 years ago.  
Where is the seafood coming from in next 10, 30, 50 years ? **FARMING.**



2016 THE STATE OF WORLD FISHERIES AND AQUACULTURE (FAO).

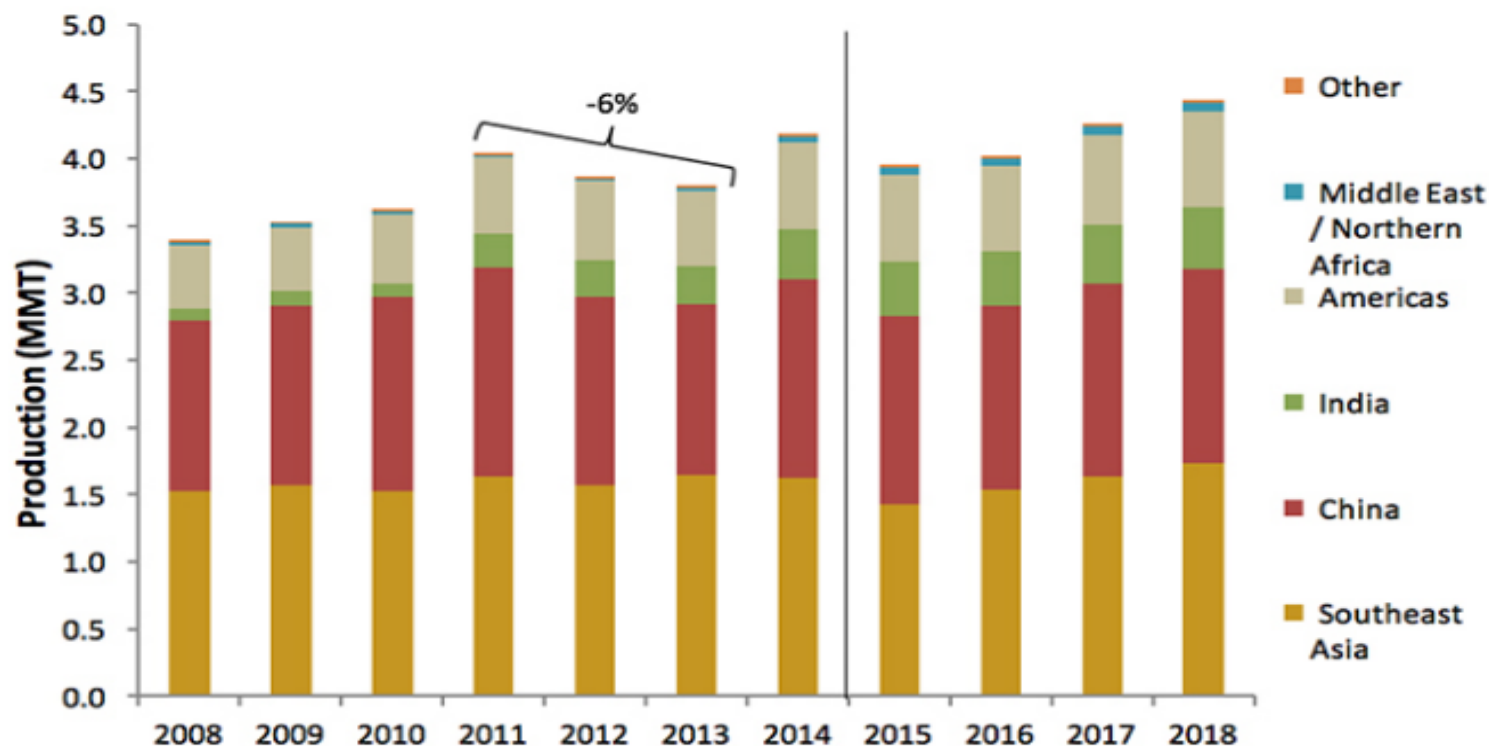


Fig. 1: Shrimp farming production by region. Sources: FAO (2008-2011); FAO & GOAL 2014 (2012-2013); FAO & GOAL 2015 (2014); GOAL 2016 (2015-2018).

Source : <http://advocate.gaalliance.org/global-shrimp-survey-goal-2016/>



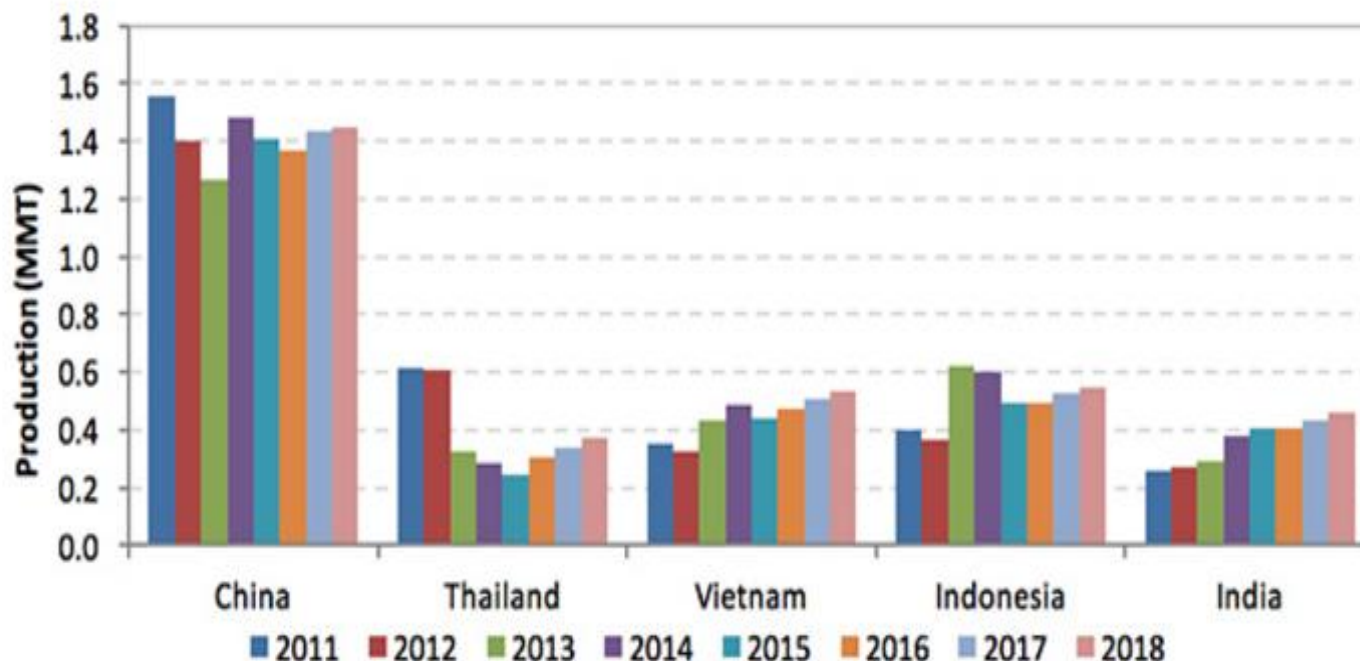


Fig. 2: Shrimp aquaculture production in major farming nations in Asia. Sources: FAO (2011-2014) and GOAL Surveys (2012-2018).

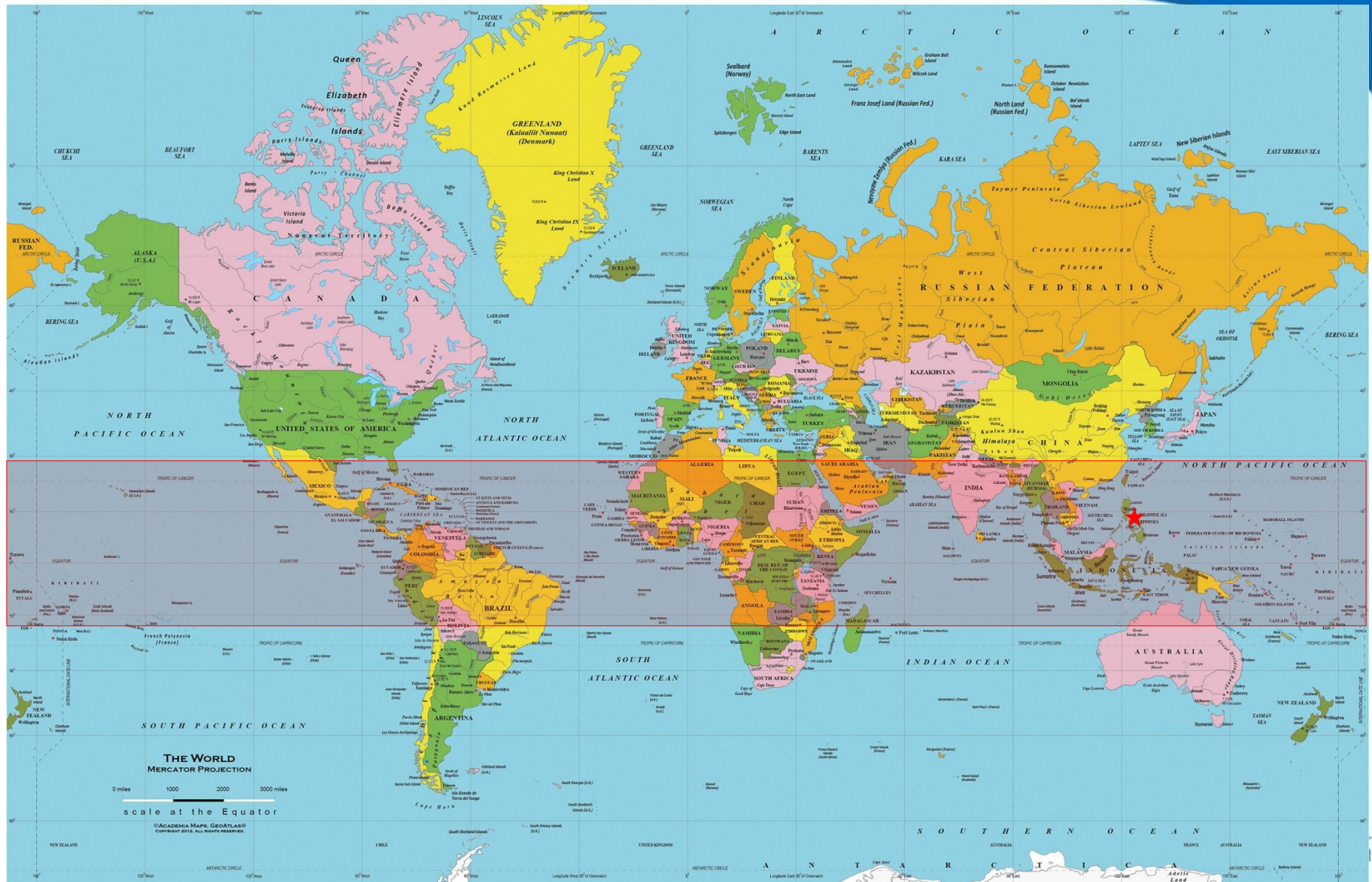
Source : <http://advocate.gaalliance.org/global-shrimp-survey-goal-2016/>



# Most suitable to develop aquaculture areas

--- include Philippine

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## Freshwater aquaculture

- a) tilapia (mainly Nile tilapia, *Oreochromis niloticus*)
- b) milkfish (*Chanoschanos*)
- c) carp (mainly bighead carp, *Aristichthys nobilis*)
- d) catfish (*Clarias* sp., *Pangasius* sp.)

## Brackish water aquaculture

- a) milkfish (*Chanoschanos*)
- b) giant tiger prawn (*Penaeus monodon*)
- c) Indo-Pacific swamp crab (*Scylla serrata*)
- d) white leg shrimp (*Penaeus vannamei*)

## Mariculture

- a) Seaweeds (*Kappaphycus alvarezii*, *Eucheuma denticulatum*, *Caulerpa* spp. and *Gracilaria* spp.)
- b) milkfish (*Chanoschanos*)

Source : <http://www.fao.org/fishery/facp/PHL/en>

## A. What species has great potential to develop ?

--- GROBEST said “shrimp”.

## B. Why ?

So many reasons like wide farming area, high economic value and high technical level.

--- As we said “shrimp plays with the global consumer market.”

## C. How to do ?

### 1. To aquaculture business :

- Operate as business, establish the traceable and vertically intergraded supply chain. Include hatchery, farming, feed, animal health products, R&D, processing and marketing.

### 2. To aquaculture farmers :

- Farming with the healthy strategy. Use environmentally friendly way to animals and lands. Be a wise farmer to sustain the aquaculture industry.

## D. Goals and benefits :

1. Become a bigger seafood exporter in the global market.
2. Enhance the international commerce performance and aquaculture industry economic value.

# About the future



Demands of farming aquatic products tends to keep raising in coming years. The industry will increase production to meet such demand.

The market share of existing players is expect to change again. It is highly possible very few companies will account for the majority of market share.

Look into the future, farmed marine fish and shrimp industry are the most promising sectors in aquaculture industry. Both species are with high profit compare to others, this is especially true for shrimp farming and shrimp feed.

The future belongs to players who is able to provide total solutions for aquaculture, quality raw materials on economical scale from vertically integrated supply chain to meet the strong demand of high-end value added finished seafood products.

Invest in vertically integrated supply chain is the key to earn tremendous profit and become the leading company in the aquaculture industry.

Thank you

