



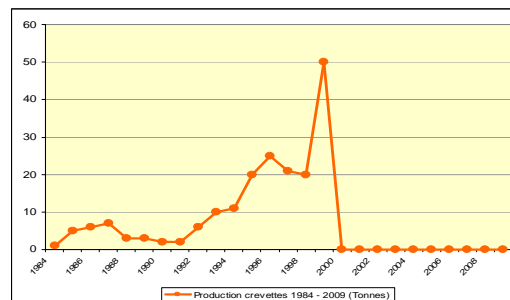
# INVESTMENT OPPORTUNITY

# TIGER PRAWN (*Penaeus monodon*)

## Overview of the sector

**Before 2000:** Prawn farming in Senegal dates back to 1984 and kept growing constantly until 1999, the very year it reached its maximum production. The construction of dams in the Senegal River caused a lot of changes in the salinity of waters along with total disappearance of prawn farming.

## Production of tiger prawn in Senegal



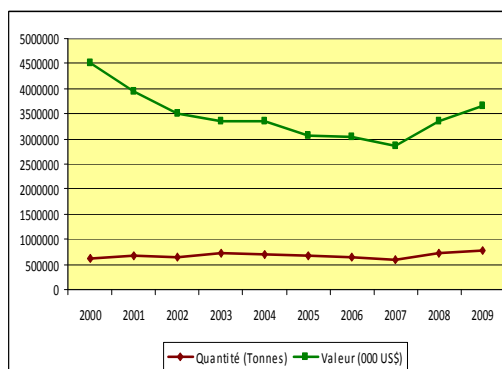
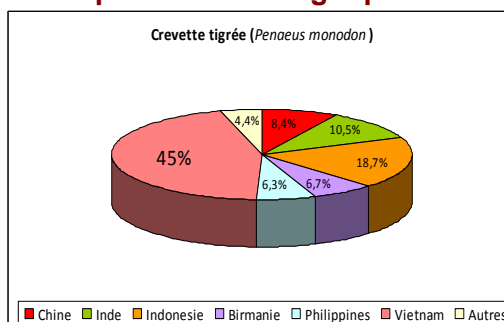
## Why investing in this sector?

**Market:** The European market is a source of demand for high quality crustaceans and tiger prawn is one of the most appreciated. ♦ Besides there is a strong demand of the product in the local market which reaches very high prices.

**Competitive Potential:** Water temperature in Senegal enables the prawn to reach its commercial size more quickly than in other producing countries. ♦ Major tiger prawn producing countries are Vietnam (45% of the world total production) Indonesia (18.74%) and India (10%) ♦ Farming conditions in Senegal could make tiger prawn production much more competitive in the European markets.

**Establishment Conditions:** First of all it is necessary to determine farming locations within an area that is not subject to temperature and salinity fluctuations. ♦ Besides it is necessary to acquire quality food that enables a continuous growth of the individuals in their fattening period.

## World production of tiger prawn





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## TIGER PRAWN (*Penaeus monodon*)

### Tiger prawn: How to produce?

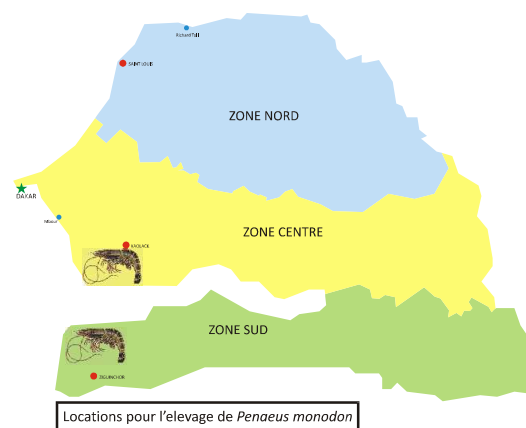
**Where to produce? :** Tiger prawn farming can be developed in the Sine Saloum and Casamance regions in semi- intensive or intensive farming, including a hatchery and a packaging factory as a semi-industrial or industrial project. Areas liable to flooding in Saint-Louis can be targeted for a semi-intensive farming. However it is essential to carry a pilote phase in collaboration with Senegalese research institutes so as to determine the best conditions for this farming activity.

**Recommended investment:** The typical facility for tiger prawn farming should be proportioned to a yearly production of 500 tons in order to guarantee the profitability. ♦ This production will be mainly destined to exportation.

#### Establishment phases to consider :

- ♦ **Phase 1:** Location of most appropriate areas for the establishment of the fattening ponds. ♦ Requesting and obtaining land for the establishment of the hatchery, ponds for seed fish and alevins and other facilities necessary for the aquafarm. ♦ Construction of facilities and acquisition of equipment.
- ♦ **Phase 2:** Capture of the first individuals to fattening for getting seed fish to produce next generations.
- ♦ **Phase 3:** Production of commercial size tiger prawn from alevins born in the aquafarm. ♦ Supply to the domestic market at prices between 4,000 and 5,000 Cfa F or exportation to international markets.

### Most suitable areas for tiger prawn farming in Senegal.



### To investigate

Packaging system with value addition: frozen and deep-frozen prawn



➔ **The growth of the shrimp is slowed down during the high salinity period (April to May) reaching concentration rate of 40% or more.**

