REPOBLIKAN'I MADAGASIKARA
Fitiavana - Tanindrazana - Fandrosoana

# AQUACULTURE INVESTMENT GUIDE IN MADAGASCAR

## A promising investment within reach

2024

MPEB

In collaboration with the National Agency for Investment Promotion

ECONOMIC DEVELOPMENT BOARD MADAGASCAR

Supported by

Food and Agriculture Organization of the United Nations

# WORD FROM THE MINISTER

Photo: © MPEB

## Aquaculture plays a key role in food security and job creation in Madagascar.

Faced with today's galloping demographic situation, our country must meet the challenge of feeding its population sustainably while preserving precious aquatic ecosystems. Being at the heart of the development of our blue economy, Aquaculture positions itself as a key sector, supported by flourishing exports of farmed shrimp, red algae, sea cucumbers and caviar. Currently, Malagasy aquaculture production is expected to reach around 30.000 tonnes by 2023. However, based on our exceptional natural assets, this sector has the potential to far exceed this figure in order to meet the country's estimated needs, set at 307.000 tonnes per year, if today's overall production is 142.000 tonnes.

Considering the rich biodiversity of Madagascar, it has aquatic resources with a high market value, although this potential remains largely unexploited. It becomes a pressing need to intensify our national aquaculture production, particularly in view of annual fish consumption, currently estimated at 7 kg per capita, below the African average of 11 kg per capita. This increase is crucial if we are to meet the ever-growing demand for food.

The development of Aquaculture is perfectly in line with the 2050 vision of the United Nations Convention on Biological Diversity, thus supporting halieutic production. This initiative aligns harmoniously with the General State Policy of His Excellency President Andry Rajoelina, which is based on three pillars: human capital, industrialization and economic transformation, and improved governance, in particular, the fight against corruption.

To this end, the National Aquaculture Development Strategy takes on its full meaning, aiming to fully exploit the opportunities offered by this buoyant sector, with a focus on priority sectors such as Algoculture, sea cucumber farming, Crab farming, and Inland Aquaculture (tilapia and carp). Aquaculture is the future of fisheries worldwide.

To conclude, the framework document entitled Aquaculture Investment Guide for Madagascar) is a sector guide for national and international players wishing to invest in the Aquaculture sector on the Island.

**My team and I look forward to welcoming you, valued investors, to take up the challenge with us.**

**Together, we go further!**

MINISTRE DE LA PECHE ET DE L'ECONOMIE BLEUE
MAHATANTE TSIMANAORATY

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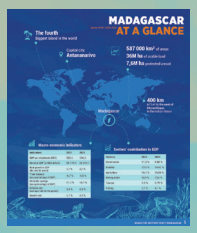
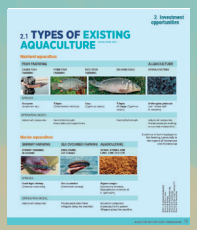




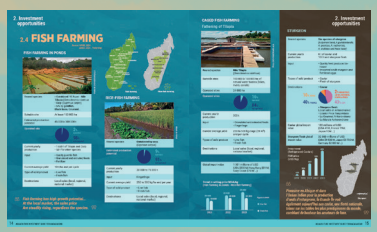











# MADAGASCAR AT A GLANCE

Source: MPEB - EDBM 2024

**The fourth**
Biggest island in the world

Capital city:
**Antananarivo**

**587.000 km²** of areas
**36M ha** of arable land
**7,6M ha** protected areas


**400 km**
To the east of Mozambique, in the Indian Ocean.

## Macro-economic indicators

| Indicators | 2021 | 2022 |
|---|---|---|
| GDP per inhabitants (USD) | 502.6 | 536.2 |
| Nominal GDP (in MGA billion) | 55744.4 | 63099.1 |
| Real growth in GDP | 5.7 % | 4.2 % |
| Trade balance (as a percentage of GDP) | -6.7 % | -5.0 % |
| Domestic savings (as a percentage of GDP) | 11.3 % | 14.7 % |
| Inflation rate (average rate for the period) | 5.8 % | 8.2 % |
| Growth rate | 5.7 % | 4.2 % |

## Sectors' contribution to GDP

| Sectors | 2021 | 2022 |
|---|---|---|
| Construction | 11.2 % | 9.68 % |
| Industry | 13.5 % | 14.42 % |
| Agriculture | 16.1 % | 16.06 % |
| Mining sector | 55.4 % | 23.6 % |
| Tourism | 1.3 % | 0.79 % |
| Fisheries | 5.1 % | 4.1 % |

Photo: © MPEB

## 1.1 WELL-SUPERVISED SECTOR

Source: MPEB, 2024

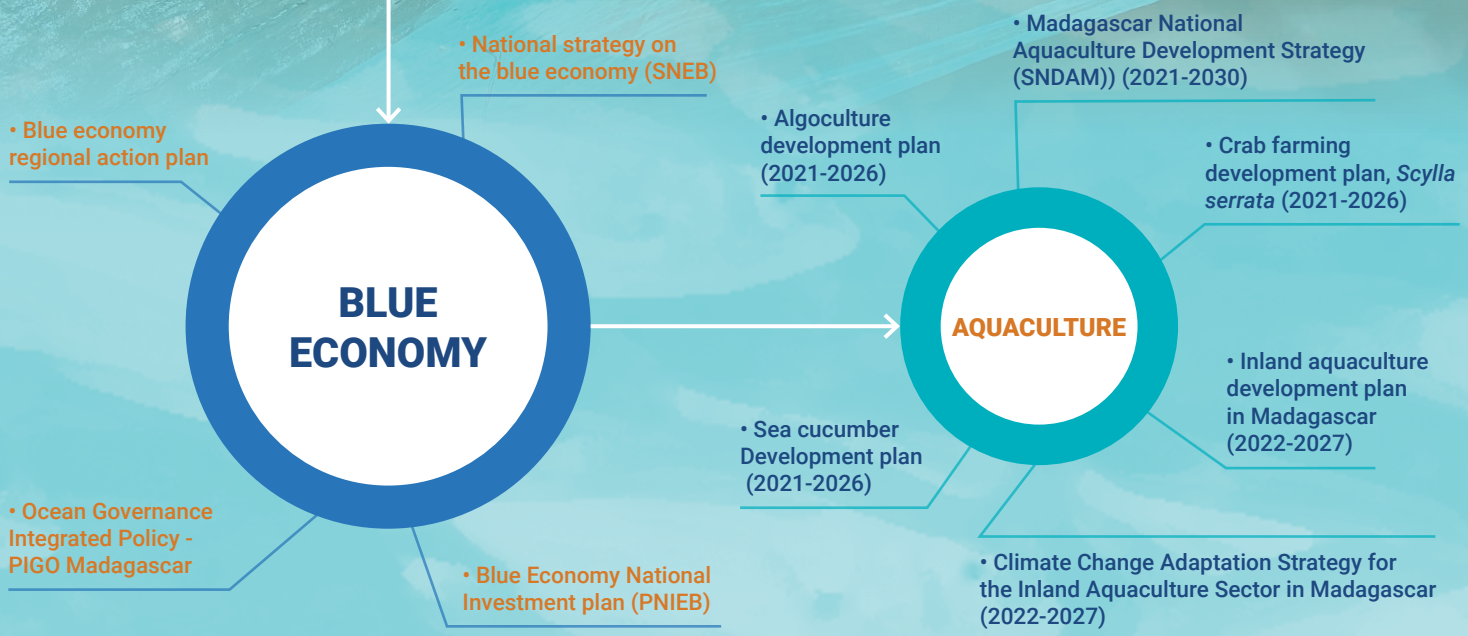
**INTERNATIONAL**

Shanghaï declaration: Aquaculture for food and sustainable development (September 25, 2021)

**REGIONAL**

SADC's Aquaculture Development Strategy

**NATIONAL**




- The Ministry in charge Fisheries and Aquaculture is responsible for their implementation, in close collaboration with partners from the private sector and civil society.
- The MPEB has drawn up job descriptions to enhance the skills of fish farmers.

# 1.2 REASSURING LEGAL SYSTEM

*Source : MPEB, 2024*

## INVESTMENT IN MADAGASCAR

- Law No. 2023-002 of July 27, 2023 on investment in Madagascar
- Decree No. 99-954 of December 15, 1999 amended by the decree n° 2004-167 on February 03, 2004 on making investment compatible with the environment (MECIE)

## FISHERY AND AQUACULTURE

- Law No. 2015-053 of February 03, 2016 pertaining to fisheries and Aquaculture
- Law No. 2018-025 of December 26, 2018 relating to maritime zones of the maritime space under the jurisdiction of the Republic Madagascar
- Law No. 2018-026 of December 26, 2018, revising Law No. 2015-053

## HEALTH CONTROL

- Decree No. 2005-375 of June 25, 2005, creating the French Fisheries Health Authority (ASH)
- Decree No. 2018-479 of May 29, 2018 concerning the health police of aquatic species and their derived product as well as the prevention and control measures against their diseases maladies

## AQUACULTURE

- Decree No. 2016-1493 of January 12, 2017, pertaining to the regulation of Aquaculture activities

## MAINLAND FISH FARMING

- Order No. 9037/2020 of May 14, 2020 setting the terms and conditions for issuing the fish farmer's card for inland waters
- Order No. 32004/2023 of November 29, 2023 on production systems and types of inland fish farming
- Order No. 32005/2023 of November 29, 2023 relating to the conditions of practice for inland fish farming

## CAGED FISH FARMING

- Order 3925 / 2018 of February 20, 2018 on regulating of caged fish farming and its installations in the State's inland public domain

## SALES

- Order No. 8333/2001 of July 30, 2001, regulating hygiene conditions applicable establishments, preparing, processing, packaging, storing or distributing animal foodstuff or foodstuffs of animal origin intended for the local market

The laws, decrees and orders can be consulted on the MPEB website:
**https://www.mpeb.mg/textes-et-lois/**

Photo: © Freepik

Madagascar has considerable assets for Aquaculture, a sector with a promising future.

Photo: © Acipenser Madagascar

# 1.3 CONSIDERABLE GEOGRAPHICAL & AQUACULTURE POTENTIAL

Source: MPEB, 2024

## Substantial resources

- **5.603 km** of coastline, a large part of which is suitable for marine aquaculture: seaweed, shrimp, sea cucumbers, oysters…
- **300.000 ha** mangroves, a real ecological niche, favourable to crab farming.
- **50.000 ha** of "tannes" or salt flats including 27.000 ha suitable for shrimp aquaculture (i.e 11.000 ha of basins).
- **150.000 ha** natural bodies of water (lakes, rivers, canals) suitable for fish farming in cages and enclosures.

## Malagasy Aquaculture sector list

- **30.000 t/year** of aquaculture production, including 23,000 t of marine production and 7,000 t of inland production.
- The world's **best giant tiger shrimp** (*Penaeus monodon*). Madagascar has already distinguished itself by being the first to obtain the prestigious **Label Rouge** and **Organic certification**.

It is also **IKIZUKI Label** and **ASC Label** certified.

- Sole **caviar** producer in Africa.

ACIPENSER MADAGASCAR

## Favourable eco-climatic conditions for good zootechnical performance of species Aquaculture and farm economics.

Fish farming and spirulina farming offer strong growth potential in Madagascar, as the species reared (tilapia, carp, and spirulina) can adjust to a wide range of eco-climatic and environmental conditions, from the central highlands to coastal regions.

# 1.4 ACCESS TO THE MARKET

*Source: MPEB, 2024*
*EDBM, 2024*

## Preferred access to major international market

Regional and bilateral agreement

**+1 billion**
Potential consumers in 41 african countries

### AFRICA

- SADC : Southern African Development Community
- COMESA : Common Market for Eastern and Southern Africa
- ZLECAF : African Continental Free Trade Area

### EUROPEAN UNION

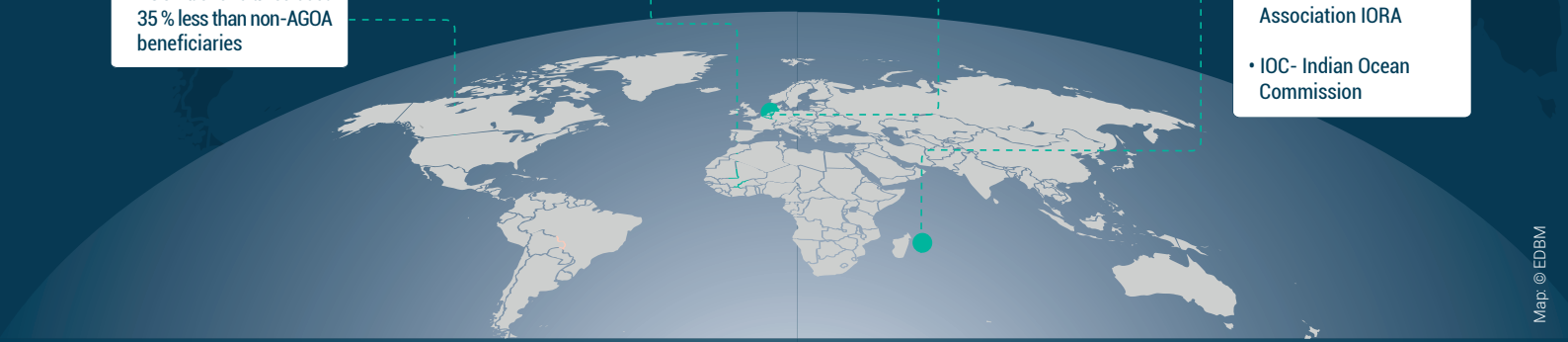
- Sales preferences
- Anything but arms (EBA)
- GSP - Generalized system of preference
- Sales agreement
- Economic partnership agreement-EPA between EU and African countries
- Economic Partnership Agreement-EPA between the United Kingdom and African countries

### UNITED STATES OF AMERICA

- AGOA : African Growth and Opportunity Act
- For the same item, AGOA beneficiaries cost 35 % less than non-AGOA beneficiaries

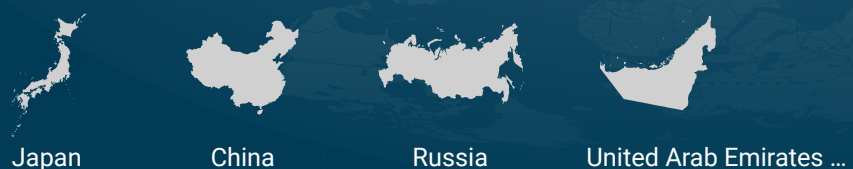
### INDIAN OCEAN

- Indian Ocean Rim Association IORA
- IOC- Indian Ocean Commission



Map © EDBM

## Other accessible markets for Madagascars



Japan China Russia United Arab Emirates ...

Madagascar is member of:

World Organisation for Animal Health
Founded as OIE

# 1.5 CURRENT AQUACULTURE PRODUCTION AREA

*Source: MPEB, 2024*

## A growing domestic market for fish

- **7 kg/capita/year**
of consumption in 2023,
target 11 kg/capita/year


Scale: 1/10.000.000

Map: MPEB 2024

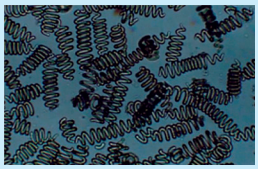
## High concentration of:

- Fish farming
- Shellfish farming
- Crab farming
- Shrimp farming
- Sea cucumber farming
- Seaweed farming
- Spirulina farming

# 2.1 TYPES OF EXISTING AQUACULTURE

Source: MPEB, 2024

## Mainland aquaculture

| FISH FARMING | | | | ALGOCULTURE |
|---|---|---|---|---|
| **CAGED FISH FARMING** | **POND FISH FARMING** | **RICE-FISH FARMING** | **FISH FARMING IN ABOVE GROUND PONDS** | **SPIRULICULTURE** |
|  |  |  | |  |
| SPECIES | | | | |
| **Sturgeon** (*Acipenser sp.*) | **Tilapia** (*Oreochromis niloticus*) | **Carp** (*Cyprinus carpio*) | **Tilapia and Carp** (*Cyprinus carpio*) | ***Arthrospira platensis*** (*var. Toliara and A. maxima*) |
| OPERATING MODEL | | | | |
| Industrial companies | Family/Individuals<br>Associations/Cooperatives | | Family/Individuals | Industrial companies<br>Private producers working to combat malnutrition |

Existence of some hydroponic fish farming, particularly in the regions of Atsinanana and Analamanga

## Marine aquaculture

| SHRIMP FARMING | SEA CUCUMBER FARMING | ALGOCULTURE |
|---|---|---|
| **SHRIMP FARMING IN BASINS** | **ENCLOSURE FATTENING** | **STAKE-STRING AND LONG-LINE SYSTEM** |
|  |  |  |
| SPECIES | | |
| **Giant tiger shrimp** (*Penaeus monodon*) | **Sea cucumber** (*Holothuria scabra*) | **Algues rouges** (*Eucheuma striatum, Kappaphycus alvarezii*, et *E. spinosum*) |
| OPERATING MODEL | | |
| Industrial companies | Private production farm<br>Villagers along the coastline | Industrial companies (Company Farm) system<br>Villagers along the coastline |

Photo 1: © Acipenser Madagascar
Photo 2: © FAO/J.K. Saha
Photo 3: © Tia Miary
Photo 4: © SPIRUSUD Maninday
Photo 5: © Dr Randriarilala
Photo 6: © Indian Ocean Trepang (IOT)
Photo 7: © Dr Randriarilala

# 2.2 AQUACULTURE GROWTH POTENTIAL

Source: MPEB, 2024

## AQUACULTURE SECTOR IN EXPERIMENTAL PHASE

### Marine aquaculture

| | SHELLFISH FARMING |
|---|---|
| TYPE | **OYSTER FARMING** |
| SPECIES | • Pen shell (*Atrina sp.*)<br>• (*Anadara sp.*) |
| OPERATING MODEL | Private farm |

| | CRAB FARMING |
|---|---|
| TYPE | **CRAB FATTENING** |
| SPECIES | Mangrove crab (*Scylla serrata*) |
| OPERATING MODEL | Private farm |

## AQUACULTURE SECTOR WITH STRONG GROWTH POTENTIAL

### Mainland aquaculture

- Spirulina export
- Trout farming relaunch (Rainbow trout farming)
- Sturgeon basin farming

### Marine aquaculture

- Marine caged fish farming
- Lobster farming
- Eel farming relaunch (Glass eel collection and eel fattening)


Scale: 1/10.000.000

Fish farming · Red algae · Crab · Shrimp · Sea cucumber

Spirulina · Eel · Oyster · Rice-fish farming · Sturgeon

Map: MPEB 2024

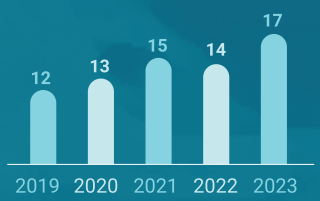
# 2.3 SHRIMP FARMING

*Source: MPEB, 2024*
*EDBM, 2024 - Trade Map*

| | |
|---|---|
| Reared speciest | **Giant tiger shrimp** (*Penaeus monodon*) |
| Rearing system | Semi-intensive in basins |
| Estimated production | 54.000 to 62.000 t |
| Operated site |  11% operated 89% not operated |
| Current yearly production | 4.400 t |
| Input | • Post-larvae produced by each company's hatchery - nursery<br>• Juvenile produced by each company's nursery farm<br>• Good-quality feed<br>• Fertilizer |
| Type of sold product | • **Raw brochette**<br>• **Crushed**<br>• **Peeled raw**<br>• **Whole cooked**<br>• **Tails** |
| Madagascar shrimp destinations | **Exportation**<br>• France (89 %)<br>• China (8 %)<br>• South Africa, Belgium, Scotland, Spain, India, Japan, Malaysia, Mauritius, Mayotte, United kingdom, Portugal, Thaïland, USA and Vietnam (3 %) |
| Global import value | 102 million USD (Morocco $27 M, Belgium $24 M, Germany $14 M ...) |

Price trend

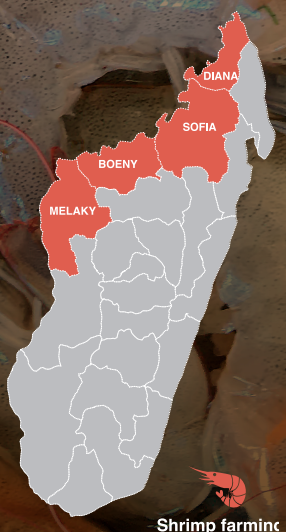
FOB price (USD/Kg)




Existence of shrimp farming development plan

Photo: © Dwi Rustiyanto - Vecteezy

*"The giant tiger shrimp (Penaeus monodon) from Madagascar, was the first to obtain the the prestigious Label Rouge/Label Bio, making it the BEST shrimp in the world."*



# 2.4 FISH FARMING

*Source: MPEB, 2024*
*EDBM, 2024 - Trade Map*


## FISH FARMING IN PONDS

Photo: © Dr RANDRIARILALA

| | |
|---|---|
| Reared species | • **Outshined 95 %** par : **Nile Tilapia** (*Oreochromis niloticus* - **Carp** (*Cyprinus carpio*). • **5 %** by **goldfish, Black bass, Gourami**... |
| Suitable site | At least 150.000 ha |
| Estimated production potential | 45.000 à 300.000 t |
| Operated site |  2% operated 98% not operated |
| Current yearly production | • 1 650 t of Tilapia and Carp • 50 t for other species |
| Input | • Quality juvenile fish • Granulated and extruded feeds • Fertilizer |
| Current average yield | 10 t/ha and per cycle |
| Type of sold product | • Live fish • Fresh fish |
| Destinations | Local sales (local, regional, national market) |

## RICE-FISH FARMING

Photo: © MPEB

| | |
|---|---|
| Reared species | **Outshined by carp** (*Cyprinus carpio*) |
| Estimated production potential |  9% operated 91% not operated |
| Current yearly production | 30.000 to 75.000 t |
| Input | Fingerlings |
| Current average yield | 250 to 300 kg/ha and per year |
| Type of sold product | • Live fish • Fresh fish |
| Destinations | Local sales (local, regional, national market) |

> *Fish farming has high growth potential... at the local market, the sales price are steadily rising, regardless the species.*

## CAGED FISH FARMING

### Fattening of Tilapia

Photo: © Dr RANDRIARILALA

| | |
|---|---|
| Reared species | **Nile Tilapia** (*Oreochromis niloticus*) |
| Suitable sites | 150.000 à 160.000 ha of natural water bodies (lakes, rivers, canals) |
| Operated sites | 24.000 ha |

Operated sites


| | |
|---|---|
| Current yearly production | 300 t |
| Input | • Granulated and extruded feeds<br>• Fingerlings |
| Current average yield | 250 to 500 kg/cage (20 m³) and per cycle |
| Types of sold product | • Live fish<br>• Fresh fish |
| Destinations | Local sales (local, regional, national market) |

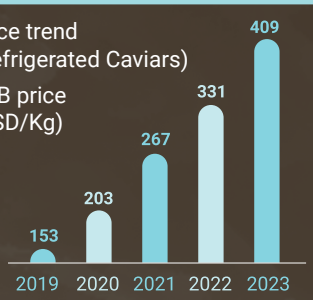
| | |
|---|---|
| Global import value | 1.301 millions USD (USA $330 M, Hong Kong $81 M, Ivory Coast $73 M ...) |

**Trend in selling price MGA/kg**
(Fish farming in ponds - Rice-fish farming)


## STURGEON

| | |
|---|---|
| Reared species | **Six species of sturgeon** (*Acipenser baerii, A.gueldenstaedtii, A. persicus, A. nudiventris, A. stellatus and Huso huso*) |
| Current yearly production | 6 t of caviar and 100 t and sturgeon flesh |
| Input | • Quality feed produced in-house<br>• Imported adult sturgeon and fertilized eggs |
| Types of sold product | • Caviar<br>• Flesh of sturgeon |
| Destinations | • **Caviar**<br>10% DUBAI<br>40% FRANCE<br>2% MAURITIUS, JAPAN, REUNION, SOUTH AFRICA<br>43% USA<br>• **Sturgeon flesh:**<br>Local sales in Antananarivo:<br>• Leader Price Tanjombato<br>• Le Gourmet Ankorondrano<br>• Le Marais Ankorondrano |
| **Caviar** global import value | 188 millions of USD (USA 41M, France 19M, Japon 15M ...) |
| **Sturgeon flesh** global import value | 32.000 millions USD (USA $9.500 M, Japan $3.700 M, Germany $2.000 M ...) |

Price trend
(Refrigerated Caviars)
FOB price
(USD/Kg)







Sturgeon

*A pioneer in sturgeon egg production in Africa and the Indian Ocean, today the Island's caviar, the national pride, is served on the world's most prestigious tables, delighting lovers of luxury.*

# 2.5 SEA CUCUMBER FARMING

Source : MPEB, 2024
EDBM, 2024 - Trade Map

| | |
|---|---|
| Reared species | **Sea cucumber** (*Holothuria scabra*) |
| Suitable site | Several coastal areas (in tidal zones) |
| Current yearly production | 9 t of trepangs |
| Input | • Juveniles<br>• Feed (at fish hatchery)<br>• Nets for enclosure |
| Global import value | 226 millions USD (China $143 M, South Korea $23 M, Saudi Arabia $22 M ...) |

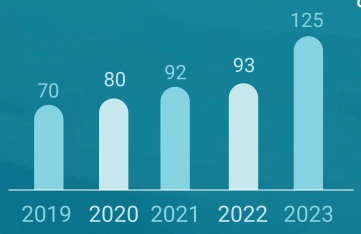
Destinations

24% SINGAPORE

1% CHINA

75% HONG KONG


Price trend
FOB Price (USD/Kg)




*As a generator of foreign currency, sea cucumber farming is one of the country's leading sectors, along with exports of farmed shrimp, red algae and caviar. Madagascar is one of the countries with the greatest expertise in sea cucumber farming.*

© INDIANOCEAN TREPANG (IOT)



# 2.6 ALGOCULTURE

*Source: MPEB, 2024*
*EDBM, 2024 - Trade Map*

## Red algae Eucheuma

| | |
|---|---|
| Crop species | Red alga (*Eucheuma striatum* or *Kappaphycus alvarezii* and *E. spinosum*) |
| Suitable sites | Several coastal areas (in tidal rocking zones) |
| Cultivated sites | 2.200 to 2.500 ha |
| Current yearly production | 0,8 à 1,2 t of dry algae/ha/an |
| Type of sold product | **Dry algae** |
| Destinations | • Europe<br>• USA<br>• Philippines |
| Global import value | 1.560 millions USD (China $647 M, Japan $190 M, USA $125 M ...) |

*Eucheuma red algae contains a high proportion of carrageenan. A polysaccharide used in a wide range of industries, including food, pharmaceuticals and cosmetics....*

## Spirulina

| | |
|---|---|
| Crop species | *Arthrospira platensis var. Toliara and A. maxima.* |
| Estimated production potential | Not yet estimated |
| Current yearly production | 25 t (dry) of spirulina meaning 125 t of fresh spirulina |
| Input | • Somes train quantities<br>• Fertilization<br>• Baking soda |
| Types of sold product | **Dry spirulina**<br>• A well-known product Sought after by consumers<br>• Opportunity for the sector to expand to the international marketsx<br>• 135.000 MGA/kg |
| Destinations | • Local sales (local, regional, national markets) and distribution to orphanages and nutritional center<br>• Export France, Switzerland |

NB : there are natural spirulina beds at Belalanda and Ankoronga (region of Toliara).

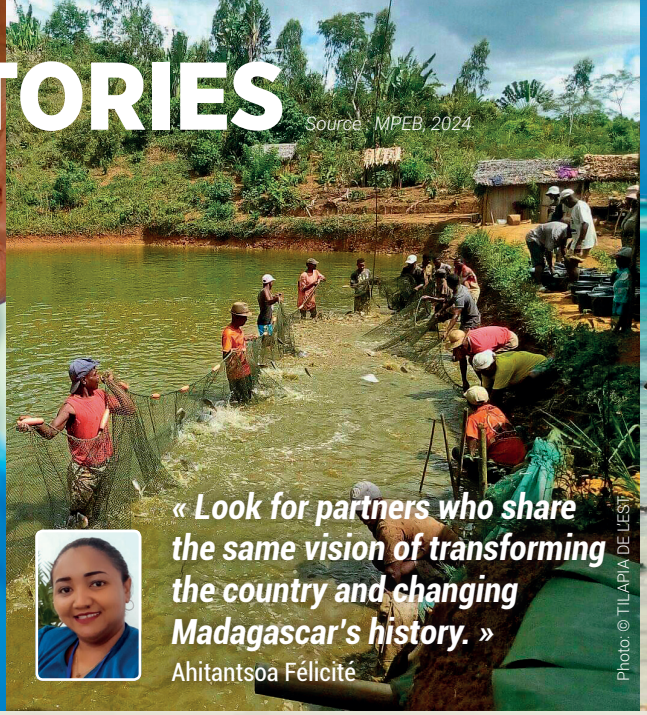
# 3. SUCCESS STORIES

Source : MPEB, 2024

*« In addition to financial resources, it is essential to have technical expertise, in-depth knowledge of marine ecosystems and adaptability to emerging challenges. »* Moustapha Dieng

Photo fournie

Photo: © Novo-comm





*« Look for partners who share the same vision of transforming the country and changing Madagascar's history. »*
Ahitantsoa Félicité

Photo: © TILAPIA DE L'EST

Photo: © OCEANFARMERS

**These companies are convinced that economic performance must go hand in hand with a strong commitment to social responsibility and the environment, and have taken full advantage of countless opportunities offered by the aquaculture sector in Madagascar.**

**Each, in its own field, has thrived by opting for a responsible,sustainable and fair approaches.**

## INDIAN OCEAN TREPANG

**SEA CUCUMBER**

INDIAN OCEAN TREPANG (IOT), established in 2012 to meet the growing demand for sea cucumbers in Southeast Asia, stands out as an example of sustainable Aquaculture in Madagascar. Started with an 8-hectare hatchery-nursery and two village farms, IOT has prospered by generating employment opportunities, preserving local resources and limiting the overexploitation of sea cucumbers, vital for marine ecosystems. The company has experienced remarkable growth thanks to its expertise, a solid team of technicians and biologists, and a committed workforce, with 196 permanent employees, 73 seasonal/temporary workers and 576 farmers.

Currently, with extensive facilities covering 8 hectares for the hatchery-nursery, 220 ha for the Company Farms and 67 ha for the village farms, and a plant processing up to 3.500 cucumbers a day, IOT produces up to 9 t of trepang every year for the Asian market. With ambitious plans to double the size of the Company Farms and increase production capacity over the next five years, the company aims to further strengthen its market position.

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info@iotrepang.com

**iotrepang.com**

## TILAPIA DE L'EST

**TILAPIA**

In 2015, TILAPIA DE L'EST, which brings together fish farmers from the Atsinanana Region, was created with an ambitious vision, to boost fish farming in Madagascar. Despite the modest beginnings on 10 ha, the company overcame major obstacles such as farmers' lack of motivation and difficult access to quality fingerlings and appropriate feed. The initial attempts, using fingerlings from Antananarivo and artisanal feed, were unsuccessful, but with perseverance, TILAPIA DE L'EST opted for Gift-strain fingerlings and extruded floating feed, adapted to the nutritional needs of the fish.

Today, with 100 ha of ponds and 500 partner producers, the company produces 900 t of tilapia a year. The company's success stems from its use of quality materials, breeding expertise, rigorous management and top-notch infrastructure. The vision for the next five years is to expand operations across Madagascar, increase production and establish a local feed factory to reinforce self-sufficiency.

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## OCEAN FARMERS

### DRY ALGAE

OCEAN FARMERS, much more than a commercial success, embodies a story of sustainable, community-based growth. Launched in 2011 in the coastal villages of Toliara's Bay, this innovative initiative is the result of a fruitful collaboration between residents and COPEFRITO's seaweed farming department.

At first, the project grew fast by involving 200 seaweed farmer households in nine villages. In 2017, OCEAN FARMERS evolved into a leading aquaculture company, exporting to markets such as France and Tunisia. The collaboration has expanded to around 30 villages, involving nearly 1,200 seaweed farmer households and exceeding 1000 t of yearly production.

Even in 2020, in spite of the health crisis, the company produced 1.500 t of algae, involving 42 villages. Currently, on 2.000 ha, Ocean Farmers employs 200 full-time staff, engages 40 day labourers and around 2.000 contract farmers, producing around 1.300 t of dry algae per year. The goal is to double its production over the next five years, OCEAN FARMERS is committed to growth that respects communities and ecosystem.

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## ACIPENSER

### STURGEONS EGGS

A pioneer in sturgeon egg production in Africa and the Indian Ocean, ACIPENSER's caviar, a national pride, now graces the world's most prestigious tables, delighting lovers of luxury.

In 2009, ACIPENSER began its journey by breeding rare species on an initial area of 6 ha in the locality of Mantasoa. With a forward-looking vision, the company focused its efforts on the production of sturgeon caviar, achieving impressive growth.

Between 2019 and 2023, the production goes from 4 to 10 t. currently, with a significant expansion to 20 ha, 22 basins and 50 cages, ACIPENSER employs 293 people to maintain its position in the sector. The key to success lies in the commitment to product quality, with sturgeon caviar exported to various international markets. ACIPENSER projects the future to 2029 by aiming to reach cruising speed through offering a complete caviar experience from all six sturgeon species

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## TIA MIARY

### CARP & TILAPIA

Created in 2017, TIA MIARY, a company specializing in carp and tilapia farming, is a living proof that with a good dose of determination, but also intense training, you can turn a modest rice field into a flourishing success in fish farming.

Starting with 30 ares, the company now farms one hectare. With 60 ares of grow-out ponds, it can achieve a yearly production of 2 t of fish. Thanks to 40 ares dedicated to fingerling rearing, it produces 100.000 fingerlings a year. In addition, two floating grow-out cages produce nearly 600 kg annually.

TIA MIARY has diversified its production methods. The hard work of its six members, trained in fish farming and management, has been the mainstay of its success. Its products, ranging from live fish to fingerlings, are sold exclusively locally. Demonstrating its adaptability to the varied needs of consumers, the company plans to expand its floating cages and improve its ponds.

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**Tia-Miary-pisciculture (Fb)**

# MISSIONS & REMIT OF AQUACULTURE RELATED ENTITIES AT MFBE

*Source: EDBM, 2024*

## AQUACULTURE DEPARTMENT (AD)

- Implementation of Aquaculture Development strategies, while taking into account production systems as well as village and industrial approaches
- Promotion of techniques and innovations based on the valorization of aquatic genetic resources

## MALAGASY AGENCY FOR FISHERIES AND AQUACULTURE (MAFA)

- Financing, monitoring and evaluation of activities implemented by projects or organizations contributing to the sustainable fisheries and aquaculture sector

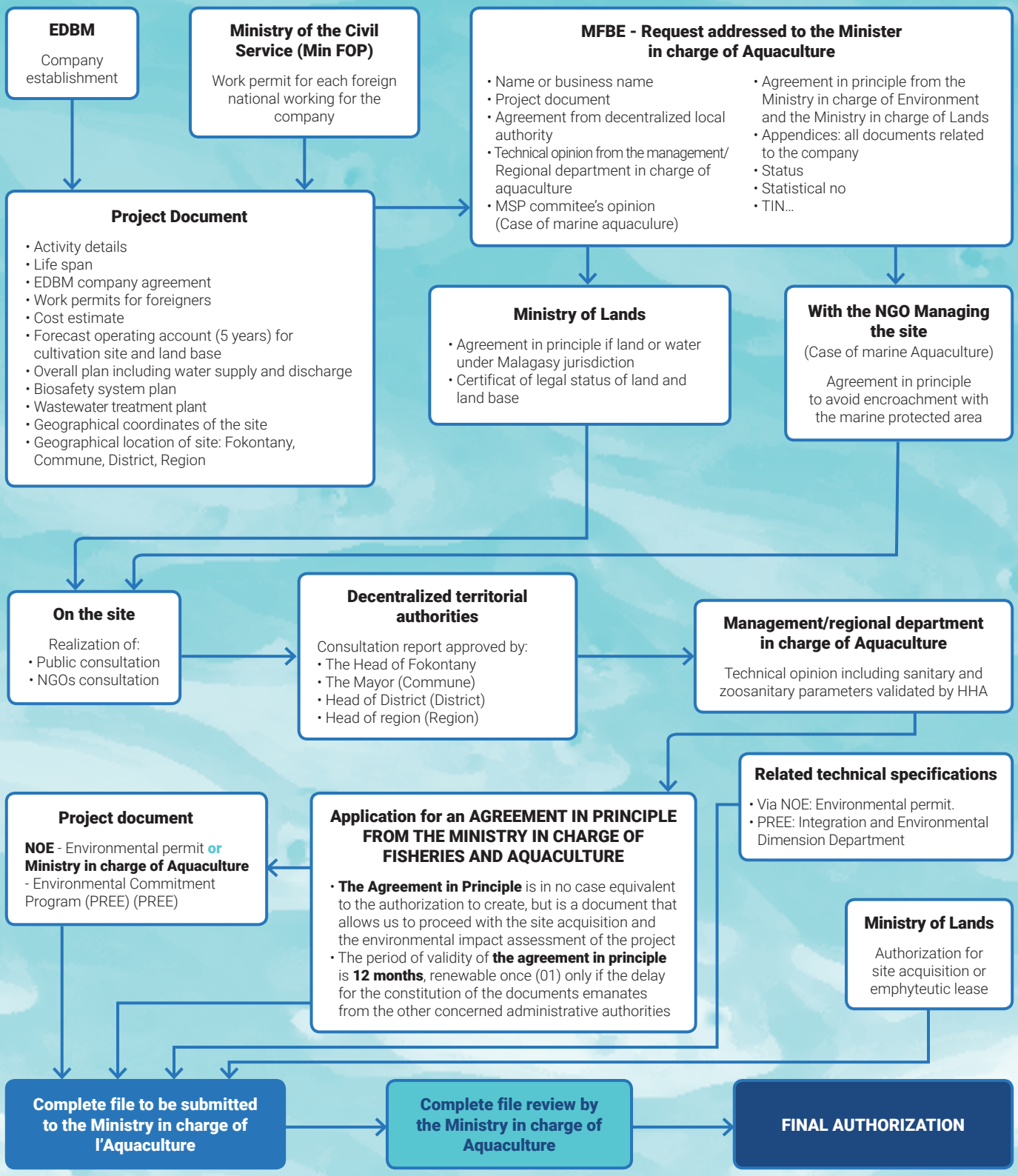
## AQUACULTURE DEVELOPMENT CENTER (ADC)

- Determine the best systematic approaches and biotechnical standards for rearing species suitable for Aquaculture
- Demonstrate and transfer the selected methodologies to civil servants, artisanal fish farmers, artisanal companies and SMEs, and possibly industrial companies, through practical training
- Contribute to the sustainable development of Aquaculture, especially the development of Aquaculture potential, including medium and small-scale sites, and increased production by trained Aquaculturists
- Formulate and test feeds based on local ingredients
- Supply post-larvae to interested operators
- Sell the center's products

## HALIEUTIC HEALTH AUTHORITY (HHA)

- Management of sanitary approval for processing plants, freezer vessels and refrigerated warehouses
- Management of zoosanitary approval for aquaculture sites
- Aquatic Animal Health Surveillance
- Sanitary inspection of fishery and aquaculture products for export
- Issuance of export health certificates

# Investment stages in Aquaculture



ECONOMIC DEVELOPMENT BOARD MADAGASCAR

CHOOSE MADAGASCAR

# NATIONAL AGENCY FOR INVESTMENT PROMOTION

YOUR DEDICATED SUPPORT FOR YOUR INVESTMENT IN MADAGASCAR

## 1 PRE-ESTABLISHMENT PHASE

- We provide you with the legal and regulatory framework for your investment project and sector

- We support you in getting key information on your investment sector and industry.

## 2 ESTABLISHMENT PHASE

- Our online platform and one-stop business start-up service will make it easier for you to set up your company

- We support you throughout the entire process of setting up your company.

- Our one-stop shop will assist you in obtaining VISAs for investors, workers or family reunification

- Our one-stop shop will help you obtain work permits for your expatriate workers

.

## 3 POST-ESTABLISHMENT PHASE (AFTER-CARING)

For established companies

- We help you solve specific problems.

- We help you realize your expansion plans

- SUPPORT FROM A DEDICATED INVESTMENT MANAGER
- LISTENING AND ADVICE
- CONTACTS WITH PUBLIC AND PRIVATE SECTOR PLAYERS

### Orinasa

www.orinasa.edbm.mg

Online platform for your company creation

### E-work

www.e-work.edbm.mg

Online platform delivering work permits for foreigners working in Madagascar

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Economic Development Board of Madagascar

EDB Madagascar

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# USEFUL LINKS

*Source: MPEB 2024*

PRESIDENCY OF THE REPUBLIC OF MADAGASCAR
www.presidence.gov.mg

MINISTRY OF FISHERIES AND BLUE ECONOMY
www.mpeb.mg

MINISTRY OF THE ENVIRONMENT AND SUSTAINABLE DEVELOPMENT
www.environnement.mg

ACSQDA LABORATORY - MINISTRY OF HEALTH
www.sante.gov.mg

FOOD AND ENVIRONMENTAL HYGIENE LABORATORY – PASTEUR INSTITUTE OF MADAGASCAR.
www.pasteur.mg
lhae@pasteur.mg

LNDV – LABORATOIRE NATIONAL DE DIAGNOSTIC VETERINAIRE(NATIONAL VETERINARY DIAGNOSTIC LABORATORY) – MINISTRY OF AGRICULTURE AND ANIMAL HUSBANDRY
www.minae.gov.mg

ECOLE SUPERIEURE DES SCIENCES AGRONOMIQUES UNIVERSITY OF ANTANANARIVO
www.essagro.mg
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NATIONAL OFFICE FOR THE ENVIRONMENT
www.pnae.mg

HALIEUTIC AND MARINE SCIENCES INSTITUTE
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MINISTRY OF FOREIGN AFFAIRS
www.diplomatie.gov.mg

CENTRAL BANK OF MADAGASCAR
www.banky-foibe.mg

GENERAL DIRECTORATE OF CUSTOMS
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