Gender and Climate Change Adaptation in Aquaculture

Improving Data Collection with a Web-Based Platform
Current situation

- Climate change risks
- Sea level rise
- Salinity
- Temperature rise

The aquaculture sector is predominantly located in brackish water regions
Current situation

Environmental degradation
Social inequalities
Poverty
Climate change adaptation

Woman are more vulnerable to:
- Climate-related disasters
  - Droughts
  - Floods
  - Crop failure
- Scarce natural resources

Women can contribute to climate action through their knowledge of resource management.
Limitations of current studies

- Not specifically related to aquaculture
- Labor-intensive & qualitative survey and interview methods
Solution for data collection

- Innovative data collection platform
- Web-based and mobile application
VerifiK8

Farmers use the mobile application to input daily, weekly and monthly activities.

Farmers use the web-application to register and input one-time only data such as information about their workers.
Dashboard

- Farm data
- Dashboard
- Suppliers’ input
- Early warning system
- Industry benchmarking
Analytics

✓ Unique algorithms
✓ Combines social with environmental data
✓ Crosschecks farm declaration
✓ Verifies data
THE SOCIAL MONITORING EXPERT GROUP...

... is a group of experts in human rights, human-trafficking, child labour, fisheries and aquaculture sustainability from credible organizations and companies in the Asia-Pacific region.
Workers’ voice tool

Social Monitoring and Crosschecking Tool

- 1 call every 4 months
- 20 questions

Red Flags?
Why use VerifiK8?

We believe that VerifiK8 helps:

1. Identify social issues at production level
2. Monitor these issues
3. Solve these issues

➢ We also provide trainings, and we believe that educating and empowering women at production level is key to tackle climate change in Southeast Asia.

We want to give more power to women, and make sure children go to school to get an education.

We also work with many experts in the field to assess social issues in aquaculture.
Want to help make a change?

We want to contribute to a strong gender-equal community, where women feel empowered and are able to act using their knowledge to counter climate change.

JOIN US

- Collect socio-environmental data
- Monitor farm performance
- Empower women, protect the environment and end poverty

www.verifik8.com
contact@fairagora.com
Edit Farm - Happy Shrimp

Farm Profile Information

- **Quota ID**: Quota ID
- **Name**: Happy Shrimp
- **Address**: 3/1 Shinawatra Bldg., Sukhumvit Soi 23, Asok
- **City**: Bangkok
- **Zip code**: 10200
- **Country**: Thailand
- **Owner**: Pau Badia
- **Phone number**: Phone number
- **Mobile number**: 0955461566
- **Fax number**: Fax number
- **E-mail**: pau@fairagora.com
- **LINE ID**: LINE ID
- **Cooperative**: -- Select Cooperative --

Activities in community

- **Do you participate to stakeholder meeting?**
- **Date of the last stakeholder meeting**: 2017-12-09

Are you member of an association?

Location of the last stakeholder meeting

- **Location**: Trat
Activities in community

Do you participate to stakeholder meeting?

Date of the last stakeholder meeting: 2017-12-09

Are you member of an association?

Location of the last stakeholder meeting: Trat

Farm Environmental Information

<table>
<thead>
<tr>
<th>Area*</th>
<th>15.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rai area thai unit</td>
<td></td>
</tr>
</tbody>
</table>

Map/Drawing

Drop files here to upload

Farm localization

<table>
<thead>
<tr>
<th>Latitude</th>
<th>13.738981</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude</td>
<td>100.5652599999997</td>
</tr>
</tbody>
</table>

* mandatory field
Facilities

- Access to toilets
- Access to rest room
- Access to Shower
- Access to Free Drinking

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Staff General Info

Number of Staff as Today*  2

Number working days / week*  6

Workers Representative Group*

Are workers allowed to join workers' representative groups?  0

How many workers' representative groups are there in the area?  0

Child Labor

Children Working in farm  0

Children Helping in farm  0

How many schools are there in the area?  2

Hazardous Work and Workers Protection

Hazardous Work

Presence of protective equipment

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Grieving System

Do you have a grievance mechanism?  *

Do you keep records of the grievances?  *
Worker Agreements > Happy worker

<table>
<thead>
<tr>
<th>Contract No</th>
<th>Type</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ORAL</td>
<td>2016-01-04</td>
<td></td>
</tr>
</tbody>
</table>

Worker Agreement

Contract No*: 1

Type of Agreement*: ORAL

Type of Work*: Worker

Start: 2017-08-08

End: 2018-12-31

Wages: 12,000 Baht

Payment Frequency*: Monthly
Farm ponds

<table>
<thead>
<tr>
<th>Pond number</th>
<th>Area</th>
<th>Unit</th>
<th>Pond type</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3.0</td>
<td>Rai area thai unit</td>
<td>Pond for growing</td>
<td>Vannamei species</td>
</tr>
<tr>
<td>2</td>
<td>2.5</td>
<td>Rai area thai unit</td>
<td>Pond for growing</td>
<td>Vannamei species</td>
</tr>
<tr>
<td>3</td>
<td>5.0</td>
<td>Rai area thai unit</td>
<td>Reservoir</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2.0</td>
<td>Rai area thai unit</td>
<td>Pond for sewage cleaning</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total ponds area</td>
<td>12.5</td>
<td>Farm declared area</td>
<td>15.00</td>
<td></td>
</tr>
</tbody>
</table>

Add Pond

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pond number*</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>Area*</td>
<td>0.0</td>
</tr>
<tr>
<td>Pond type</td>
<td>-- Select Pond Type --</td>
</tr>
<tr>
<td>Species</td>
<td>-- Select Pond Species --</td>
</tr>
</tbody>
</table>
Ponds  Agriculture and aquaculture

Add Activity

Activity Type

- Select Activity Type --
  - Distribution of Additive
  - Distribution of Antibiotics
  - Feeding
  - Pond Fertilizing
  - Pond Harvesting
  - Pond leveling
  - Pond liming
  - Pond maintenance
  - Pond stocking
  - Pond washing

-- Select Product --

Measure

0.0

-- Select unit --

Comment

* mandatory field

Cancel  Submit
### Ponds: Agriculture and aquaculture

#### Pond Activities

<table>
<thead>
<tr>
<th>Start</th>
<th>Activity</th>
<th>Value</th>
<th>Unit</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-01-01 02:54:56</td>
<td>Pond Stocking</td>
<td>200000.0</td>
<td>UNITS</td>
<td>-</td>
</tr>
<tr>
<td>2016-11-28 01:51:07</td>
<td>Pond Harvesting</td>
<td>4.0</td>
<td>MT</td>
<td>-</td>
</tr>
<tr>
<td>2016-11-25 08:46:46</td>
<td>Feeding</td>
<td>600.0</td>
<td>KG</td>
<td>883</td>
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<tr>
<td>2016-09-13 06:50:03</td>
<td>Pond Stocking</td>
<td>30000.0</td>
<td>UNITS</td>
<td>-</td>
</tr>
<tr>
<td>2016-06-29 09:34:19</td>
<td>Pond Harvesting</td>
<td>7.0</td>
<td>MT</td>
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<tr>
<td>2016-06-27 09:33:18</td>
<td>Feeding</td>
<td>50.0</td>
<td>KG</td>
<td>283</td>
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<tr>
<td>2016-06-02 09:32:30</td>
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<td>KG</td>
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<td>2016-05-11 09:31:50</td>
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<td>35.0</td>
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<td>KG</td>
<td>153</td>
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<td>2016-04-05 09:29:37</td>
<td>Feeding</td>
<td>25.0</td>
<td>KG</td>
<td>123</td>
</tr>
</tbody>
</table>

Showing 1 to 10 of 16 entries
2. Social Performance – SEASAIP benchmarking

2.1 Methodology

Verifik8 data collection tool provides a platform to farmers to input data and declare from their farm owner or manager. Information related to the farm profile, ponds, personal information, workers information and others is input on the first visit where farmers are taught on how to use Verifik8 and input data.

Another data stream comes from workers’ phone number using their input. Workers’ voice process is agreed with farm owner and information to workers is provided with a poster on the farm (See Annex 1). Workers are asked a set of 20 questions to corroborate the owner declaration related to social performance towards SEASAIP standard.

2.2 Results

These results have been a combination of crosschecks among farm declaration and the workers’ voice.

<table>
<thead>
<tr>
<th>General Working Conditions</th>
<th>✓</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Child labor</strong></td>
<td>✓</td>
</tr>
<tr>
<td>Farm worker agreement/contract</td>
<td>✓</td>
</tr>
<tr>
<td>Termination conditions</td>
<td>✓</td>
</tr>
<tr>
<td>Freedom of association</td>
<td>✓</td>
</tr>
<tr>
<td>Non-discrimination</td>
<td>N/A</td>
</tr>
<tr>
<td>Disciplinary actions</td>
<td>N/A</td>
</tr>
<tr>
<td>Migrant worker registration</td>
<td>✓</td>
</tr>
<tr>
<td>Grievance mechanism</td>
<td>N/A</td>
</tr>
<tr>
<td>Wage</td>
<td>✓</td>
</tr>
<tr>
<td>Extra work</td>
<td>✓</td>
</tr>
</tbody>
</table>

- **Health & Safety**
  - Safe working conditions | ✓ |
  - Sanitary facilities | ✓ |
  - Safety training | ❌ * |
  - Worker accommodation | ✓ |

- **Community Issues**
  - Community benefits | ✓ |
  - Management of conflicts with communities | N/A |
  - Farm siting in the local community | ✓ |

* Farmers have not received any safety training.

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