

# Gender and Climate Change Adaptation in Aquaculture

Improving Data Collection with a Web-Based Platform





### **Current situation**



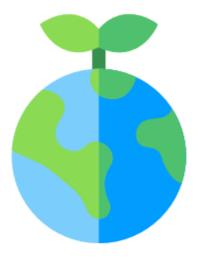
- Climate change risks
- Sea level rise
- Salinity
- Temperature rise

The aquaculture sector is predominantly located in brackish water regions





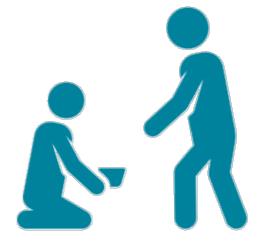
# **Current situation**



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

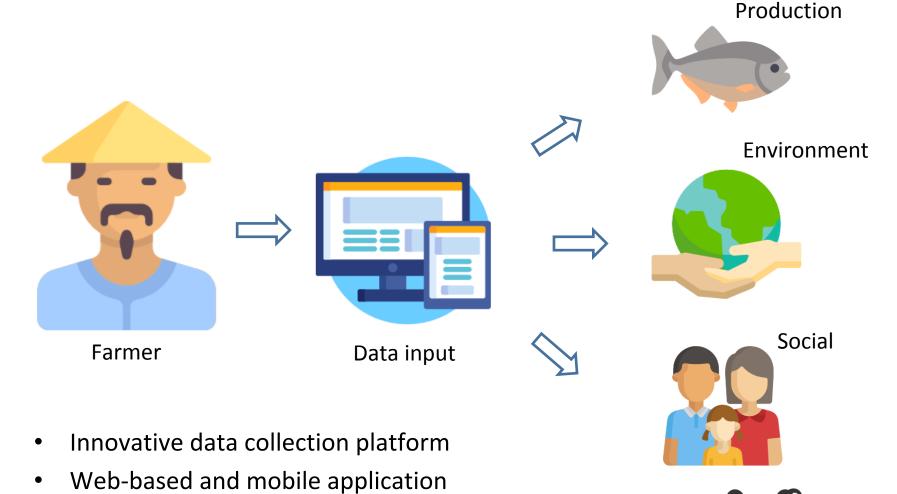
- Not specifically related to aquaculture
- Labor-intensive & qualitative survey and interview methods







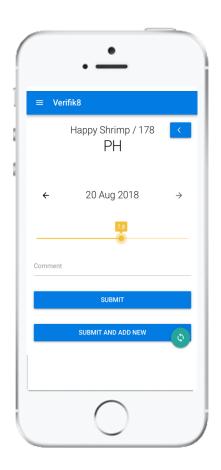
## Solution for data collection

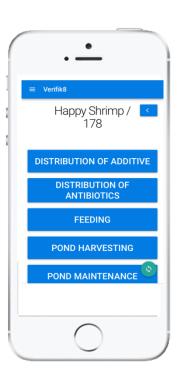






### VerifiK8





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



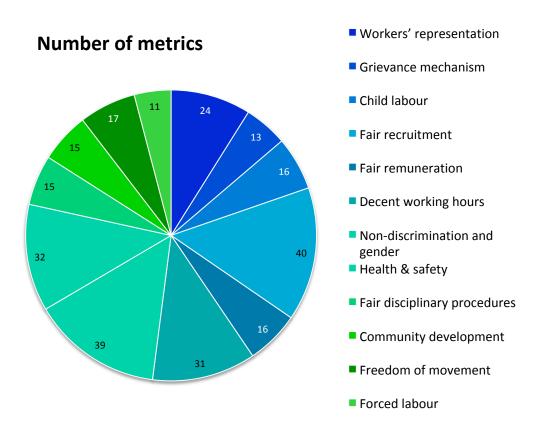
- ✓ Unique algorithms
- ✓ Combines social with environmental data
- ✓ Crosschecks farm declaration
- ✓ Verifies data



# Social Monitoring Expert Group

# 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.





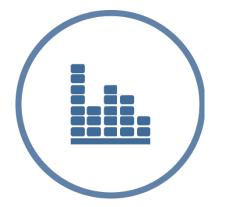


### Workers' voice tool



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.





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

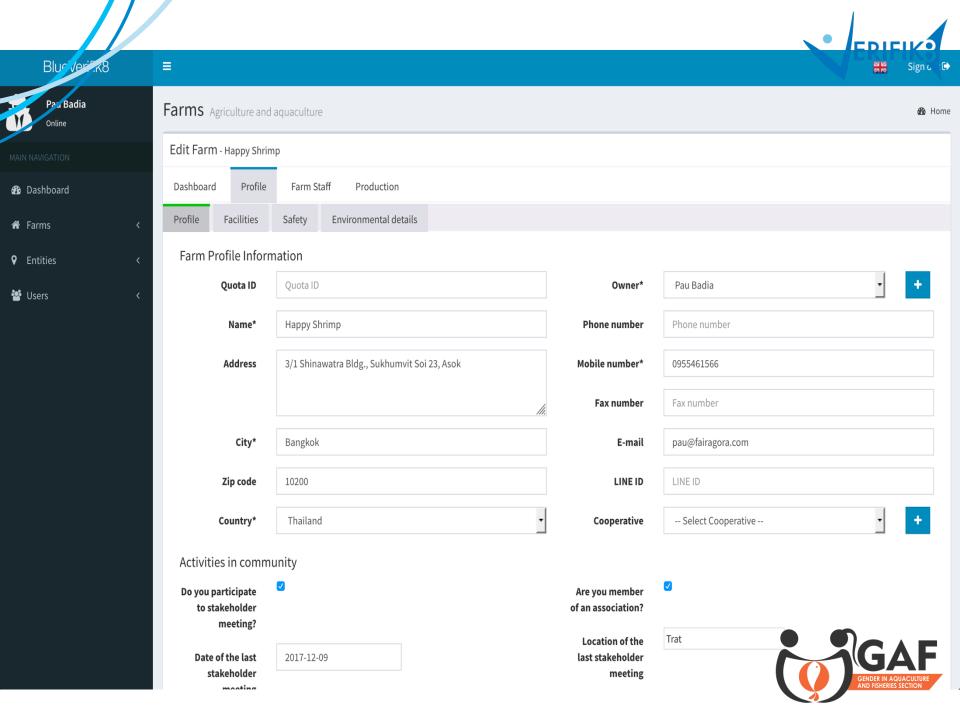
✓ Monitor farm performance

✓ Empower women, protect the environment and end poverty

www.verifik8.com

contact@fairagora.com





#### actinties in community

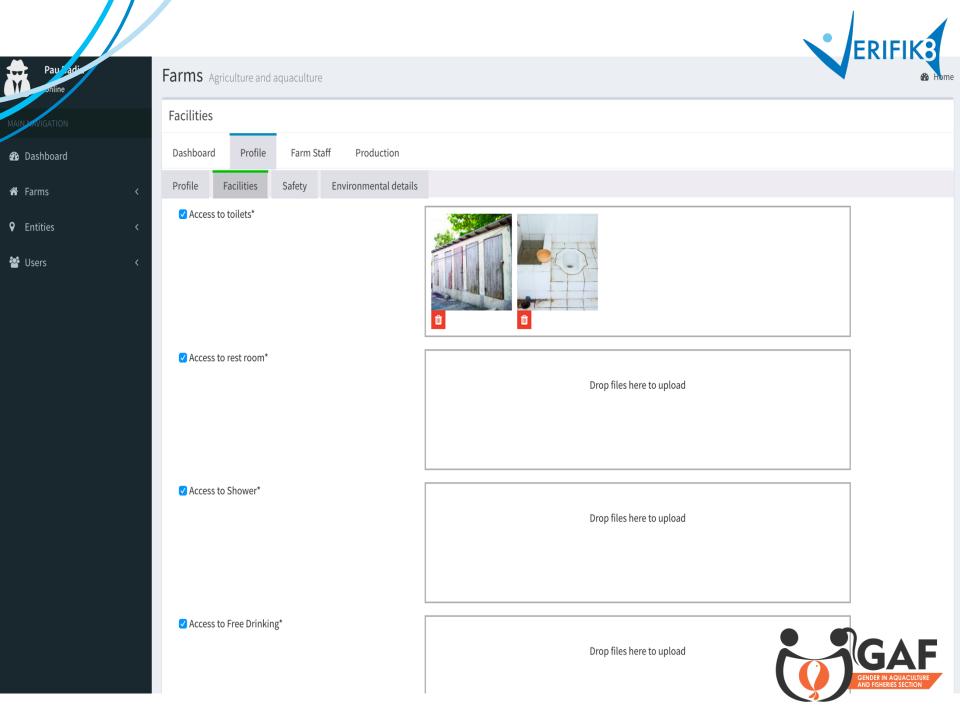


Do you participate Are you member to stakeholder of an association? meeting? Trat Location of the Date of the last 2017-12-09 last stakeholder meeting stakeholder meeting Farm Environmental Information Rai area thai unit Map/Drawing Area\* 15.0 Drop files here to upload

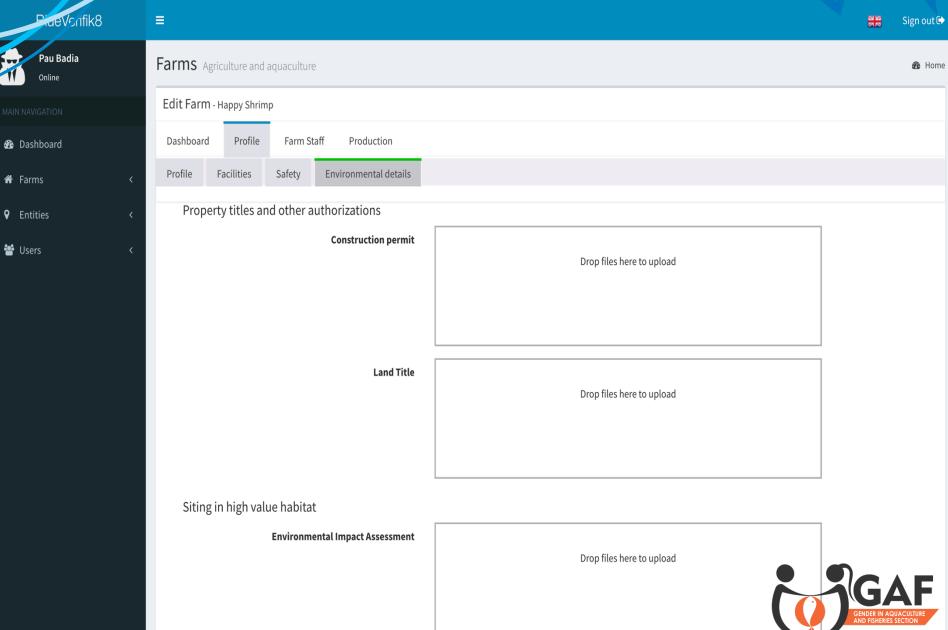
#### Farm localization



\* mandatory field





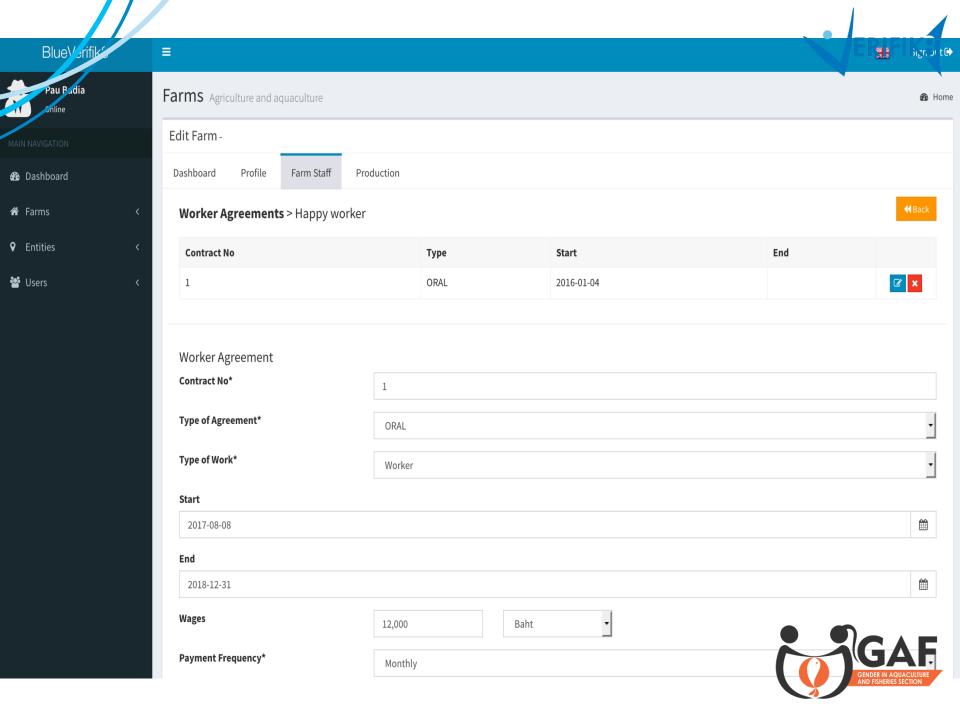




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<b>43</b>	Dashboard	
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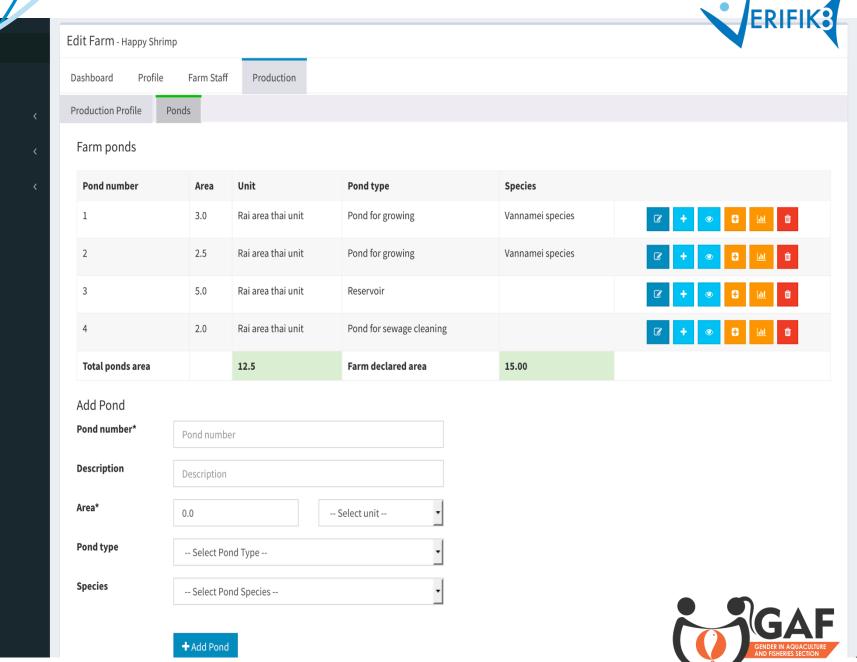
Farms Agriculture and ac	quaculture					<b>№</b> Но
Edit Farm - Happy Shrimp						
Dashboard Profile	Farm Staff	Production				
Staff General Info Cont	tact & Staff	Hiring / Recruitments	Training			
Staff General Info				Child Labor		
Number of Staff as Today*		2		Children Working in farm	0	
Number working days / week*		6		Children Helping in farm	0	
		Workers Represent	ative Group*	How many schools are there in the area?	2	
		Are workers allowerepresentative groups				_
How many workers' reprogroups are there in the ar		0				
Hazardous Work and W	Vorkers Prot	ection		Grieving System		
Hazardous Work				✓ Do you have a grievance mechanism? *		
				☑ Do you keep records of the grievances?*		
Presence of protective eq	Juipment					
		Drop files here to	upload			
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Bli Wernik8		Sign out 🕩		
Pau Badia Online	Farms Agriculture and aquaculture	<b>₽</b> Home		
	Edit Farm -			
<b>⚠</b> Dashboard	Dashboard Profile Farm Staff Production			
<b>☆</b> Farms	Staff General Info Contact & Staff Hiring / Recruitments Training			
<b>♀</b> Entities	Farm Recruitment Management  Do workers need to make a financial deposit?*			
🚰 Users	How do you make sure your workers don't terminate employment when they want to?  Financial Incentive (lump sum)			
	What are the main reasons for termination of employment?			
	☐ Do you keep any documents from the workers for safekeeping ?*			
	✓ Have you signed any contract with the workers?			
	✓ Were your workers hired directly			
	☐ Were your workers hired through an agent?			
	Farm Remuneration Policies			
	How much money is deduced/month?  How much money is deduced/month?			
	☐ Do your workers receive payment slips?			
	☐ Are some workers indebted to you?			
	☐ Are workers endebted to other stakeholders (broker, agency etc.)?	<b>E</b> AGAF		
	☐ Is there any in-kind payment?	GENDER IN AQUACULTURE AND FISHERIES SECTION		



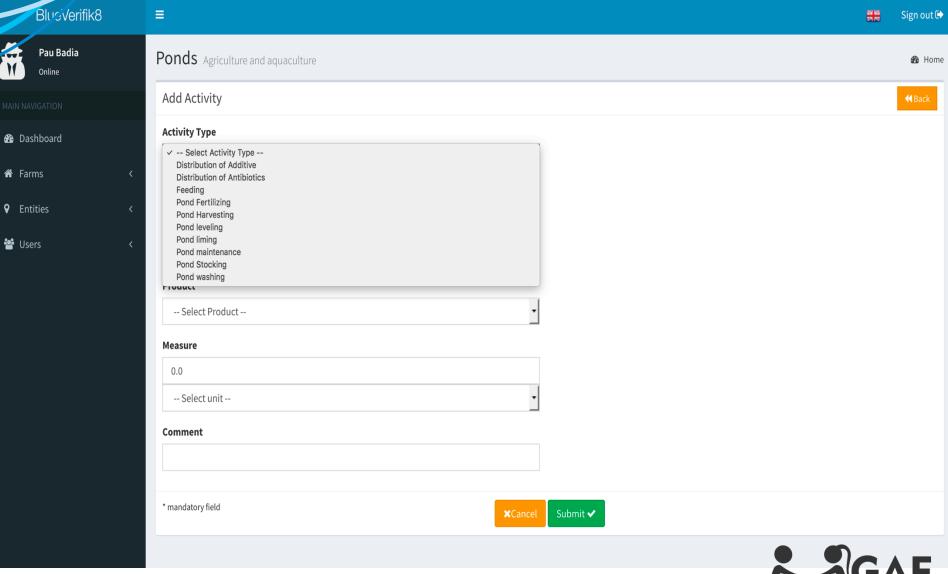
Dashboard

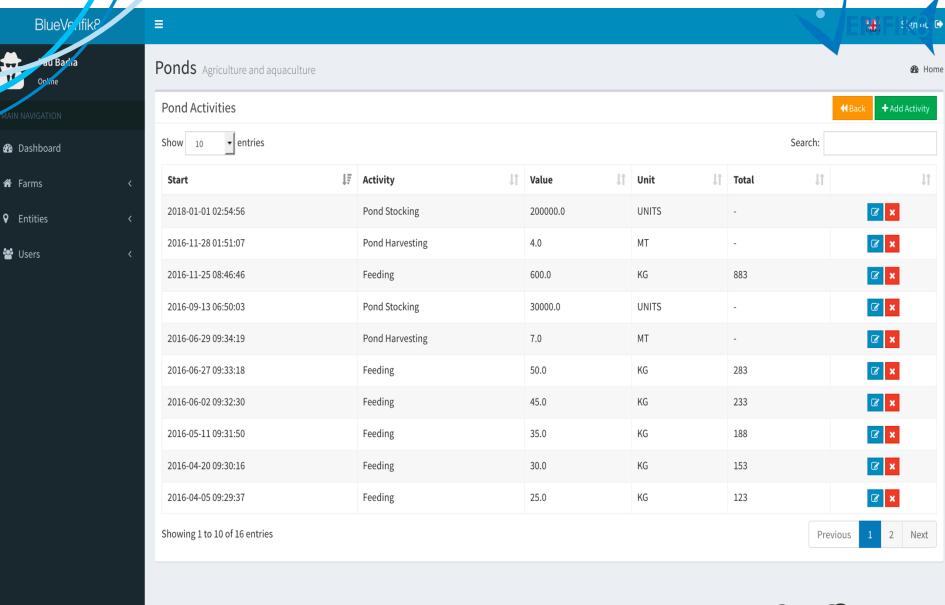
★ Farms

**♀** Entities

Users









#### 2. Social Performance – SEASAIP benchmarking

#### 2.1 Methodology

Verifik8 data collection tool provides with 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

Social and

Location

Farm area: 83 rai

Species: White-leg shrimp

(Litopenaeus vannamei)

environmental

Compliance report

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

General Working Conditions	
Child labor	V
Farm worker agreement/contract	V
Termination conditions	V
Freedom of association	V
Non-discrimination	N/A
Disciplinary actions	N/A
Migrant worker registration	~
Grievance mechanism	N/A
Wage	~
Extra work	~
Health & Safety	
Safe working conditions	~
Sanitary facilities	~
Safety training	<b>*</b> *
Worker accommodation	~
Community Issues	
Community benefits	~
Management of conflicts with communities	N/A
Farm siting in the local community	~

<sup>\*</sup> Farmers have not received any safety training.

This is an automatic report produced by Verifik8. The report remains the intellectual property of Verifik8. It has been submitted on the basis of strict confidentiality and the contents must not be



environmental Compliance report

Area	5 rai
Stocking	1,500,000 shrimps
Stocking density	300,000 shrimps/rai
Stocking date	15/03/2018
Culture period	47 days
Total feed used	10,716 Kg
Production	N/A
FCR	N/A
Water Quality	N/A



#### Pond 3

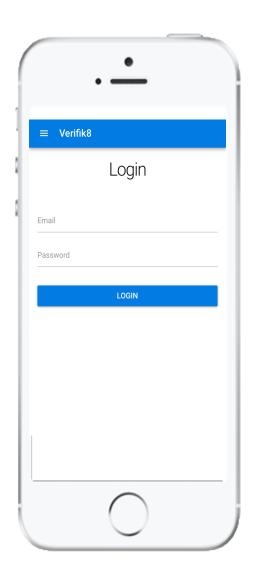
Area	6 rai
Stocking	1,500,000 shrimps
Stocking density	250,000 shrimps/rai
Stocking date	17/02/2018
Culture period	73 days
Total feed used	18,016 Kg
Production	N/A
FCR	N/A
Water Quality	N/A



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### Verifik8 mobile app









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