Six-Level Redevelopment Project for Traditional Fishing Villages Social Return on Investment (SROI) Evaluation Report



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Cover design by Bo-Ren Chang (The principal investigator and executor of this project)



This hexagon means the different part brands in our aquaculture industry.



Triangle means connection the different part brands with each other to fulfill Six-grade industry in aquaculture .



The plus maens One-grade industry + Two-grade industry + Three-grade industry = Six-grade industry = One-grade industry x Two-grade industry x Three-grade industry.

The three picture combine become a Six-grade industry complete situation. Will support the aquaculture industry upgrade and stronger.

They can help aquaculture industry product improvement \(\) improve labor force \(\) machining integraion \(\) Sale supporting \(\) industry upgrade \(\) cross-industry alliance at last this system will support the area progress .

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Table of Contents

| Chapter 1 | Project description | |
|-------------|---------------------------------|-----|
| Section 1 | Project background | |
| Section 2 | Project scope | 2 |
| Chapter 2 | SROI Framework | 8 |
| Section 1 | Analytical Framework | |
| Section 2 | Limitations of the Study | 10 |
| Chapter 3 | Social Impact Analysis | 15 |
| Section 1 | Stakeholder | 15 |
| Section 2 | Inputs and Outputs | 25 |
| Section 3 | Assessing the Outcomes | 27 |
| Chapter 4 | SROI Calculation | 118 |
| Section 1 | Present Value of Outcome Impact | 118 |
| Section 2 | Sensitivity Analysis | 122 |
| Chapter 5 | Conclusion and Recommendations | 125 |
| References. | | 134 |

| Appendix 1 | Stakeholder Engagement Interview Outline and Questionnaire | 136 |
|------------|--|-----|
| Appendix 2 | Stakeholder Inputs | 139 |
| Appendix 3 | Chain of events | 141 |
| Appendix 4 | Impact Map | 149 |

List of Tables

| Table 1 | Limitations of the Study | 10 |
|----------|--|-----|
| Table 2 | Related meeting minutes | 15 |
| Table 3 | List of Stakeholders | 16 |
| Table 4 | Master table of stakeholder engagement | 20 |
| Table 6 | Total Inputs and Outputs | 25 |
| Table 7 | Chain of events and summary of principal investigator | 30 |
| Table 9 | Chain of events and summary of collaborating fish farms | 65 |
| Table 10 | Chain of events and summary of employees of Milkfisherhome Café | 73 |
| Table 11 | Chain of events and summary of the local fishermen's association | 89 |
| Table 12 | Chain of events and summary of consumers of Milkfisherhome Café | 96 |
| Table 13 | Chain of events and summary of event participants | 99 |
| Table 14 | Chain of events and summary of the SWCB | 105 |
| Table 15 | Adjusting Factor | 112 |

| Table 16 | Summary of Influencing Factors in Each Outcome | 115 |
|----------|--|-----|
| Table 17 | Table of Impact | 118 |
| Table 18 | Calculations for SROI adjustment | 123 |
| Table 19 | Proportion of Outcome Benefits Enjoyed by Each Stakeholder Group | 128 |
| Table 20 | Breakdown of benefits by aspect | 130 |

List of Figures

| Figure 1 | Schematic Diagram of the Six-Level Redevelopment Project for Traditional Fishing Villages 6 |
|----------|---|
| Figure 2 | Brand building flowchart of Bo-Ren Chang |
| Figure 3 | Proportion of Benefits Enjoyed by Each Stakeholder Group |

Chapter 1 Project description

Section 1 Project background

The principal investigator and executor of this project is Bo-Ren Chang. His family operates a fish farm: Terminalia Garden in Mituo, Kaohsiung, and he is learning the profession of aquaculture. This is when he gained a profound understanding that the main issue with the aquaculture industry in Mituo, Kaohsiung, Taiwan, is the lack of young workers. Students in related departments also lack a practice site and thus cannot accumulate practical experience. As a result, 90% of students do not go into the aquaculture industry after graduation (Lin C.-C., 2007). That is why the principal investigator built the Fisher Team and played the role of professional trainer for the aquaculture industry, allowing students of the Department of Aquaculture to become interns at Terminalia Garden. The students are paid intern salaries and members become formal employees after graduation. Furthermore, the principal investigator also felt that the industries in Mituo are too homogeneous. If the youth do not get into the aquaculture industry, they need to leave their hometown and seek work elsewhere. This caused large outflows of the young population in Mituo, leaving only the elderly. For this reason, the principal investigator worked hard to create different possibilities for the aquaculture industry, including opening a café, dining table for the fish farm, and fish farm experience activities, hoping to provide employment opportunities for the youth that do not want to get into the aquaculture industry but still want to work in their hometown. He hopes that the youth can have good development opportunities in the upstream and downstream of the industrial chain, and stay in the fishing village. The social impact of the project is displayed in the talent cultivated for the aquaculture industry. The use of ecological aquaculture methods allow for the production of good aquaculture products, raise the price for fishermen to have higher profits, and allow them to reduce production volume, which further improves the work efficiency of the aquaculture industry. The diverse industries created in fishing villages allow young students and women seeking re-employment to take care of

both their studies and families, learning new skills, such as communication ability and coffee brewing techniques, for the youth to regain a sense of attachment to the land as well as a sense of belonging.

Section 2 Project scope

This report assesses the social impact of the Six-Level Redevelopment Project for Traditional Fishing Villages, for which application was made by Bo-Ren Chang to be part of the Rural-Young Project founded by the Soil and Water Conservation Bureau (SWCB), Council of Agriculture. The name of the project is Six-Level Redevelopment Project for Traditional Fishing Villages. Its principal investigator and executor is Bo-Ren Chang.

This report evaluated the project's input and activity period from March 1, 2017 to July 31, 2019 (period of the SWCB's grant subsidy project). For the assessment period, the Six-Level Redevelopment Project for Traditional Fishing Villages consisted of four major activities:

1. Train Fisher Team members: To cultivate the younger generation of talent for the aquaculture industry, one of the focuses of this project is to establishe the Fisher Team and personally trained members, providing intern salaries to students and teaching them knowledge of aquaculture through practice. Furthermore, knowledge of ecological aquaculture methods is passed on to students to produce better aquatic products that are friendly to the environment, which will raise the price for fishermen and allow them to make bigger profits, reduce production volume, and further improve the work efficiency of the aquaculture industry. On one hand, the youth can understand their interests and career plans through complete training courses, saving them time exploring in the future. On the other hand, they can learn ecological aquaculture methods to produce higher quality aquatic products that are friendly to the environment. Fish farmers in Mituo face the issue of aging, the industry lacks high-quality youth, and this has resulted in many fish

farms being deserted or unable to reach normal productivity. Therefore, the principal investigator introduced members that completed training to become interns at qualified fish farms. If they perform well during their internship, they can become formal employees of the fish farm after graduation. This way fish farmers have young workers with professional knowledge, while the youth have a workplace in which to utilize their expertise.



2. Established Milkfisherhome Café: To allow more young people to enter the aquaculture industry in Mituo and have other employment opportunities, principal investigator established Milkfisherhome Café No. 1 and No. 2, which was then the first café in Mituo, Kaohsiung. Milkfisherhome Café No. 1 is a café with an ocean view that features Mituo port and a relaxed and leisurely atmosphere. Milkfisherhome Café No. 2 was then jointly established with the Mituo Fishermen's Association. It is positioned differently than MilkfisherhomeMilkfisherhome Café No. 1 and focuses on promoting the local aquatic products of Mituo. The store clerks are trained as product salespeople. In the process of interacting with consumers, they explain Mituo's local culture and industry features. In the future, Milkfisherhome MilkfisherhomeCafé No. 2 has the potential to become an important location for in-depth tours.



3. Established a limited liability production cooperative: Principal investigator has promoted the concept of friendly fish farms through different channels, and is working together with certain local channels (such as high-end French restaurants and department stores in urban areas). Heestablished a limited liability production cooperative in 2019, and further invited primary producers who are willing to take responsibility for their products to join the cooperative as suppliers, expanding the market using the concept of a common brand. Products that join the limited liability production system are classified based on quality and have different purchase prices. This encourages producers to continue improving their product quality and gain reasonable profits, avoiding the tragedy of relying on nature and having wholesalers determine the prices (Chen, 2007), creating a virtuous cycle and slowly improving the industry environment (Lin T.-W., 2006). The direct choice of consumers results in the difference in sales revenue between high quality producers and general producers. When the Fisher Team that he trained intends to start its own business, it does not need to worry about sales issues.



4. Organize food and fish education events: Principal investigator combined fisheries with tourism (Chang, 2012), established Cool Coast Camping Campsite, Milkfisherhome Café No. 1, Milkfisherhome Café No. 2, and organized events to promote food and fish education, as well as sell aquatic products. He worked with local restaurants to make the food products a part of dishes, so that more consumers will understand how to use the aquatic products and the difference from typical aquaculture products.



Six-Level Redevelopment Project for Traditional Fishing Villages

Primary industry
Fish farms produce
friendly aquatic
products

Secondary industry

Fishery product processing increases the value of fishery products

Tertiary industry

Fish farm dining table camping activities

Talent cultivation for different level industries in fishing villages

Figure 1 Schematic Diagram of the Six-Level Redevelopment Project for Traditional Fishing Villages



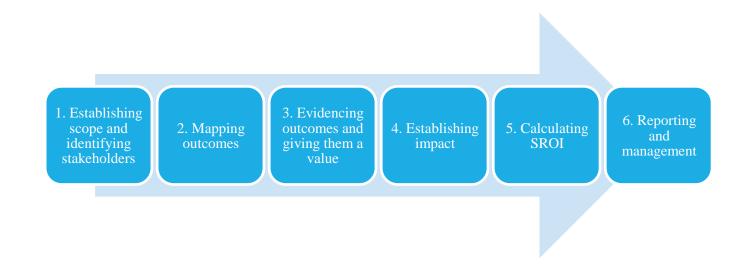
Figure 2 Brand building flowchart of Bo-Ren Chang

Chapter 2 SROI Framework

Section 1 Analytical Framework

In this report, we have followed "A Guide to Social Return on Investment" (2012 edition; hereinafter referred to as the "SROI Guide") published by the British government, as the basis of our analytical framework. Based on the actual data from interviews with the stakeholders during the assessment period, the changes and impacts that occurred for the stakeholders in that time served as the basis for evaluation of the project's social impact.

We carried out each step of the research analysis in accordance with the description and framework design of the SROI Guide:



- 1. Establish a scope for the report and list the stakeholders.
- 2. Through stakeholder engagement, list the impacts and changes that the project has brought about for them.
- 3. Design indicators to identify whether the impacts and changes have indeed occurred; after engaging with stakeholders again, select the appropriate financial proxy to measure impact and changes.
- 4. Adjust the value of impact and changes through four adjusting factors.
- 5. Calculate the net present value of impact using the discount rate, and then calculate the SROI ratio.
- 6. Confirm the results of the assessment and the SROI ratio with the stakeholders again, and then disclose the final results in the report.

Section 2 Limitations of the Study

The study is carried out based on the framework of the seven SROI principles. Related research limitations and response methods are described below:

Table 1 Limitations of the Study

| Principle | Limitations of the Study | Potential Risks for the Study | Response Method |
|-------------------------|--|--|--|
| I. Involve stakeholders | There are many types of stakeholders, some of whom cannot be contacted or engaged with: 1. Experience activities and food and fish education courses are mainly one-time activities. They are not continuous and contact is difficult in practice, so questionnaires or interviews with most participants cannot be obtained. | SROI ratio overestimation or underestimation | For experience activities and food and fish education courses, only those with questionnaires or interview records are included in the scope of assessment in order to comply with principles. Limited Liability Production Cooperative members inquired stakeholders through different methods (telephone or questionnaire), and inquired the stakeholder's peers in the industry or conducted observations of members of the local fishing crew. According to the guide, we adjusted the influencing factors which is obviously low to 10% and 30% respectively in the sensitivity analysis to test the results. |

| 2. The limited liability |
|----------------------------------|
| production cooperative began |
| assisting members with sales |
| in 2019. Due to the |
| confidentiality of business |
| cooperation and revenue, it is |
| difficult to engage |
| stakeholders. |
| 3. The influencing factors of |
| this study rely heavily on the |
| feedback from stakeholders. |
| According to our experience, |
| even if we explained the |
| meaning of the four |
| influencing factors to |
| stakeholders during the |
| interview, it is still difficult |
| for them to fully understand. |
| |

| | | A small number of stakeholders | SROI ratio | Using the literature as an aid, discuss with experts and |
|------|-------------|-------------------------------------|-----------------|--|
| | | cannot clearly express the | overestimation | scholars, and ask peers of the stakeholders in the industry |
| | | impact or changes they have | or | regarding what they have observed. During the |
| | | experienced: The fishermen's | underestimation | evaluating process, investigator confirmed with the |
| II. | Understand | association provides loans, | | stakeholders, so that opinions can be concentrated |
| | what | industry guidance, and | | |
| | changes | marketing and promotion on | | |
| | | behalf of the local government. | | |
| | | The changes are mostly | | |
| | | intangible and cannot be | | |
| | | concretely described. | | |
| | | Some stakeholders were unable | SROI ratio | We first verified outcomes with individual fish farmers |
| | | to value the things that matter at | overestimation | through interviews, and then we asked professional |
| | T | first: Collaborating fish farms | or | fisherman to estimate their revenue based on the type of |
| 111. | Value the | are mainly in traditional fishing | underestimation | fish and increase in farming area; the increase in profit is |
| | things that | villages with fishermen at ages | | obtained after deducting cost per unit area. |
| | matter | 60 and above, and are less | | |
| | | willing to disclose their financial | | |
| | | information, so it is hard for us | | |
| | | to directly obtain information in | | |

| | the increase in revenue of fish | | |
|-----------------------------------|--|--|---|
| | farms when the Fisher Team | | |
| | joined. | | |
| IV. Only include what is material | There are many types of stakeholders Stakeholders believe that all outcomes are important. Stakeholders believe that the value of important outcomes was low, contrary to general belief | SROI ratio overestimation or underestimation | List direct and indirect stakeholders. After engaging with stakeholders, it was found that the impact in indirect stakeholders is minor. Therefore, only the direct stakeholders with significant impact are included. Realize stakeholders' extent of changes (before and after the project) and discuss with stakeholders, professional fisher engaging in aquaculture, the representative form SWCB and scholars, then finding the significant and important outcomes by chain of events. |
| V. Do not over-claim | A small number of stakeholders have a large statistical population, but only a small percentage of them can be engaged: Experience activities | SROI ratio underestimation | 1. Only include the number of people who have been engaged; do not extrapolate figures to include the total population. the outcome value and adjusting factors are all calculated as a weighted average which can integrated extreme value. |

| | and food and fish education | | 2. Attempt to extrapolate figures to include the total |
|-----------------|-----------------------------------|-----------------|---|
| | courses are mainly one-time | | population of consumers of Milkfisherhome Café and |
| | activities. They are not | | event participant in sensitive analysis, further examine |
| | continuous and contact is | | the result of the SROI. |
| | difficult in practice, so | | |
| | questionnaires or interviews with | | |
| | most participants cannot be | | |
| | obtained. | | |
| | The information within the | N/A | Openly explain the outcomes as well as the calculation |
| VI. Be | complete impact map of the | | and derivation processes in the report.,and display |
| transparent | report may not be clear due to | | complete impact map in appendix. |
| | layout restrictions. | | |
| | Due to time constraints, not all | SROI ratio | Sample representatives of each type of stakeholder to |
| VII. Verify the | of the stakeholders in the study | overestimation | verify the results; use the literature as an aid to discuss |
| result | are invited to participate in the | or | with experts and scholars. |
| | verification of results. | underestimation | |

Chapter 3 Social Impact Analysis

Section 1 Stakeholder

I. Stakeholder Identification

We sequentially identified the stakeholders impacted by each activity of the four major activities executed by the project. With the assistance from project investigator and holding four stakeholder meetings on site, as well as two meetings to consult and discuss with experts and scholars (the 4 experts include a talent cultivation expert, agriculture and fisheries expert, marketing expert, and social impact analysis expert), we verified the scope of major stakeholders.

Table 2 Related meeting minutes

| Meeting time | Meeting participants | | |
|---|---|--|--|
| March 27, 2018 | Bo-Ren Chang/Fisher Team Member/Fish Farmer/SWCB | | |
| May 28, 2018 Bo-Ren Chang/Fisher Team Member/SWCB | | | |
| August 01, 2018 Four experts and scholars/Bo-Ren Chang/SWCB | | | |
| March 15, 2019 Bo-Ren Chang/SWCB | | | |
| May 24, 2019 Four experts and scholars/Bo-Ren Chang/SWCB | | | |
| July 06, 2010 | Bo-Ren Chang/Fisher Team Member/café employee/Director at the | | |
| July 06, 2019 | local fishermen's association/SWCB | | |



Table 3 List of Stakeholders

| Activity | Description | Stakeholder Identification |
|---------------------------------------|---|---|
| Training Fisher Team members | Utilizing funds of the SWCB, Bo-Ren Chang recruited Fisher Team members again, and members learned aquaculture methods and related knowledge and techniques at collaborating fish farms. Local fishermen's associations provide a portion of funding and guidance resources to make the training more complete. | Bo-Ren Chang Fisher Team Collaborating fish farms SWCB Local fishermen's association |
| Established Milkfisherhome Café | Jointly operated by Bo-Ren Chang and the local fishermen's association, utilizing funds from the SWCB, hires local students from Mituo, Kaohsiung or people seeking re-employment; employees learn how to brew coffee and sell aquatic products, and allow consumers to enjoy the best products. | Bo-Ren Chang Employees of Milkfisherhome Café Consumers of Milkfisherhome Café SWCB Local fishermen's association |
| Established a limited liability | Bo-Ren Chang established a limited liability production cooperative to encourage producers to continue improving their | Bo-Ren Chang Member of the Responsible |
| production | product quality and gain reasonable profits. Works together with | Production Cooperative |

| cooperative | restaurants or processing plants to process aquatic products a second time and increase the variety of products sold at the cooperative. | Restaurant/Food processing company |
|--|--|---|
| Organize food and fish education events | Utilizing funds of the SWCB, Bo-Ren Chang holds aquaculture experience activities and food and fish education activities. Participants are students in aquaculture related departments, elementary school and junior high school students, teachers, and the general public. | Bo-Ren Chang Event participant SWCB |

II. Identifying Stakeholders

Stakeholders with non-material impact were excluded based on the goals of this project and the principles of materiality and to not over-claim social impact assessments. An appropriate number of samples were taken from the stakeholders that were included to administer the questionnaire or conduct face-to-face interviews. A questionnaire survey was conducted for café consumers and participants of fish eating education activities, while face-to-face interviews were conducted with all other stakeholders to verify outcomes.

We adopted a rolling approach to stakeholder identification. When the project first began, we focused on the project contents of the implementation team to verify the most direct stakeholders. We then identified other stakeholders that we originally did not think of through our understanding of the principal investigator, descriptions given by each batch of interviews, and the research experience and observations of scholars in related fields. We maintained flexibility in this process to discover and include potential stakeholders into the scope of engagement.

According to the information gaining from various engagement stages, stakeholders are divided into three levels: the project executor, the direct stakeholders and indirect stakeholders.

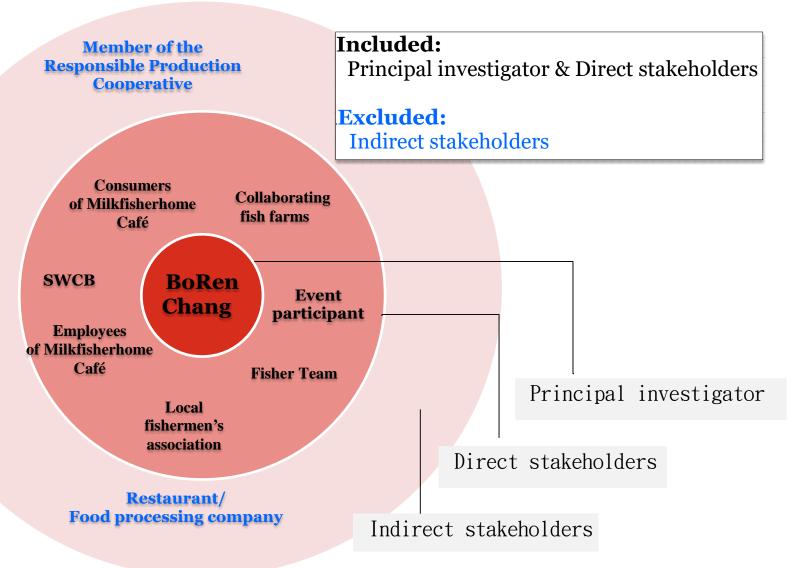


Table 4 Master table of stakeholder engagement

| No. | Stakeholder | Description | Included or not | Supplementary description |
|-----|--|---|-----------------|---|
| 1 | Principal investigator | Bo-Ren Chang is the Principal investigator & Project executor | included | |
| 2 | Fisher Team | Fisher Team members learned aquaculture methods and related knowledge and techniques at fish farms. | included | |
| 3 | Collaborating fish farms | Fisher Team members become interns or employees of collaborating fish farms | included | |
| 4 | Employees of Milkfisherhome Café | Local students from Mituo, Kaohsiung or people seeking re-employment work at Milkfisherhome Café; employees learn how to brew coffee and sell aquatic products. | included | |
| 5 | Local fishermen's association | Provides the land and building of Milkfisherhome Café, jointly operates the café with Bo-Ren Chang, and provides financing and industry guidance measures. | included | |
| 6 | Consumers of Milkfisherhome Café | Enjoy coffee and purchase aquatic products at Milkfisherhome Café. | included | Due to the large number of consumers that are mostly one-time consumers, contact is difficult in practice, so the number of people engaged is relatively low. With consideration to the principle of Do |

| | | | | Not Over-claim, only those that questionnaires were collected from are calculated in the outcome. |
|----|---|---|----------|--|
| 7 | Event participant | Aquaculture experience activities and food and fish education activities are held. Participants are students in aquaculture related departments, elementary school and junior high school students, teachers, and the general public. | included | Experience activities and food and fish education courses are one-time activities. They are not continuous and contact is difficult in practice, so the number of people engaged is relatively low. With consideration to the principle of Do Not Overclaim, only those that questionnaires were collected from are calculated in the outcome. |
| 8 | SWCB | Provides project funding and related guidance measures. | included | |
| 9 | Member of the Responsible Production Cooperative | Encourages producers to continue improving their product quality and gain reasonable profits. | excluded | Began assisting with sales in 2019. The current amount is not very high and it is difficult to engage stakeholders due to business relationships. Therefore, Bo-Ren Chang excluded it from consideration after discussion with experts and scholars. |
| 10 | Restaurant/Food processing | Works together with restaurants or processing plants to process aquatic products a second time. | excluded | The two parties only have a business relationship, and the |

| company | amount of fish used is not very |
|---------|--------------------------------------|
| | large. After interview, the |
| | businesses indicated that the change |
| | is insignificant. Therefore, Bo-Ren |
| | Chang excluded it from |
| | consideration after discussion with |
| | experts and scholars. |

III. Number of stakeholders engaged

(I) Engagement Phase

Engagement with stakeholders was divided into two phases, namely interviews, outcome verification, and outcome validation. We conducted the first phase of interviews face-to-face, and then designed different questions based on the results of the preliminary interviews to conduct the second phase, which is outcome verification. Stakeholders were asked if they had the outcome to fully understand the changes and impact they had experienced. Finally, outcomes were validated via discussion with the stakeholders, the literature, and experts and scholars, to confirm that the results were not biased and reflect the actual situation.

(II) Number of People Engaged

Due to the large number of consumers of Milkfisherhome Café and participants of fish eating education activities, it is hard to conduct face-to-face interviews, so we conducted a questionnaire survey. Face-to-face interviews were conducted with all other stakeholders for outcome verification. Because most of stakeholder groups are very small, and also to avoid

sampling errors, except for consumers of Milkfisherhome Café and event participants, we interviewed the principal investigator, fisher team member, collaborating fish farms, local fishermen's association and SWCB to 100%. The number of stakeholders engaged is shown in the table below:

| Stakeholder | Total population/ Unit | Number of people interviewed in phase 1 | Number of people administered questionnaires and outcome verification in phase 2 | Number of People Engaged |
|--|------------------------------|--|--|--------------------------------|
| Principal investigator | 1 | 1 | 1 | 1 |
| Fisher Team | 10 | 10 | 10 | 10 |
| Collaborating fish farms | 4 | 4 | 4 | 4 |
| Employees of Milkfisherhome Café | 6 | 6 | 6 | 6 |
| Local fishermen's association | 1 | 1 | 1 | 1 |
| Consumers of | 3008 | | 38 | 38 |

| Stakeholder | Total population/ Unit | Number of people interviewed in phase 1 | Number of people administered questionnaires and outcome verification in phase 2 | Number of People Engaged |
|------------------------|------------------------------|--|--|--------------------------------|
| Milkfisherhome Café | | | | |
| Event participant | 396 | | 14 | 14 |
| SWCB | 1 | 1 | 1 | 1 |

Section 2 Inputs and Outputs

With regard to the inputs and outputs identified by principal investigator during the project assessment period, due to the large number of consumers of Milkfisherhome Café and participants of food & fish education activities and its difficulties to conduct face-to-face interviews, so we conducted a questionnaire survey. Face-to-face interviews were conducted with all other stakeholders for outcome verification. The number of stakeholders engaged is shown in the table below:

Table 6 Total Inputs and Outputs

| Stakeholder | Inputs | | - Outputs | |
|--------------|--------|-----------|---|--|
| Stakenoidei | Items | Amount | Outputs | |
| Principal | Funds | 2,586,792 | Organized 16 events | |
| investigator | | | Organized 4 food and fish education speeches in elementary | |
| | | | schools and junior high schools | |
| | | | Held 2 entrepreneurship forums and speeches | |
| | | | • Established 3 work teams (trained 10 members of the Fisher | |
| | | | Team) | |
| | | | 5 brand established | |
| | | | Established 2 training sites | |
| | | | Established 2 cross-domain models | |
| Fisher Team | Time | 0 | Assisted 7 nearby fish farms with aging workers to activate | |
| | | | 31 ha of fish farms | |
| | | | | |

| Stakeholder | Inputs | | Outnuts | |
|--|------------|-----------|--|--|
| Stakeholder | Items | Amount | Outputs | |
| Collaborating fish | Funds/Site | 3,117,759 | Assisted collaborating fish farms in increasing 6 ha of aquaculture area Assisted 1 overseas aquaculture technology transfer and investment project Increased 6 ha of aquaculture area | |
| farms | Tunus/Site | 3,117,737 | increased on a or aquaeunture area | |
| Employees of Milkfisherhome Café | Time | 0 | Completed 1 commercial coffee brewing technique training course and café operation model Completed 1 salespeople training course | |
| Local fishermen's association | Funds/Site | 400,000 | One renovation of a deserted activity center One product sales location One building of the fishermen's association's image Development of diverse products Trained 2 people | |
| Consumers of Milkfisherhome Café | Funds/Time | 9,719 | • Consumers of Milkfisherhome Café: 3,008 people | |
| Event participant | Funds/Time | 10,750 | Participated in a total of 22 food and fish education events | |
| SWCB | Funds | 2,000,000 | One demonstration site featuring youth innovation | |

Section 3 Assessing the Outcomes

I. Chain of events

Through the engagement process described above, we have gained a better understanding of the changes to stakeholders. We employ the "chain of events" approach to explain the causal relationship between inputs, outputs and outcomes. After we have identified the chain of reasoning with respect to the series of changes that the stakeholders have experienced, we define them as the resulting outcomes from stakeholders' perspectives, and either include or exclude them based on the seven principles of SROI.

Therefore, whether an outcome is included or excluded is based on whether the change experienced by the stakeholder is concrete and material. We thus used the following four methods to verify outcomes: (1) Subjective description directly from stakeholders: Stakeholders independently determine if the outcome occurred (2) Objective indicators of behavioral changes: The stakeholder is able to independently list or chooses two or more objective indicators, and the behavior can be observed by a bystander; (3) The opinions of experts and scholars in related fields; (4) Reference the seven SROI principles.

This project conduct a first-phase interview and confirm the results in the second phase with a face-to-face manner. We ask all stakeholders whether they have the outcomes (The consumers of Milkfisherhome coffee and the event participant are engaged by questionnaires). In the first interview we obtained stakeholders' description for change and transform it into objective indicators (it may include qualitative description or quantitative description). After that, we used these objective indicators to confirm outcomes with stakeholders. The second interview are conducted in three steps. Firstly, we invited stakeholders to list their changes in various behaviours in an open way. If the stakeholders directly respond "YES" and provide subjective proof (including subjective qualitative descriptions or subjective quantitative change descriptions), we will record the results provided by the stakeholders in the chain of event. Secondly, if some stakeholders cannot clearly

express the results, we provided some objective indicators for reference. We defined that choosing more than one objective indicators is the proof of experiencing change because only choosing one probably is caused by a random behaviour preference, so we adopted stricter way. Thirdly, we observed the stakeholders' behaviour change from the perspective of the observer and professional judgment, and finally determined whether the result occurred. If we have concerns about the outcomes, we interview experts and scholars and search for some literature, which can evidence that changes are made. In addition, we also ask stakeholders about the amount of change before and after the program with Likert scales. Likert scale was created by psychologist Rensis Likert, and is often used in questionnaires. It is the most widely used scale which can help respondents to give back thoughts or feeling in social psychology, psychology, and management behavior surveys. Therefore, we take the average of 3 points (total points are 5) as the baseline. We define the outcomes are important and significant if the stakeholders choose over 3 points.

We understand that certain groups may experience different outcomes depending on their age, income or some other factors. If we judge that these differences are likely to be significant, we should split it into subgroups. In this project, we conducted two-stage interviews. The first one is to realize the change, and the second one in to confirm the outcomes. We ask all stakeholders if they really have the results happen and realize their change and background information. During the interview, we learned that some stakeholders are from different growth backgrounds. For example, 9 members of the fisher team were young male students aged 18-24. They were all students from the aquaculture department and working in aquaculture Industry, and another one is a 26-year-old man who has been working in the industry for 2-3 years. However, they experience the same significant change. As for the employees of Milkfisherhome coffee, 5 of them are female locals, and another one is a male from other county. He work in Milkfisherhome coffee since he like working conditions and slow-pace live. After conducting an interview in depth and confirming the outcomes many times, we found that they don't

experience different changes. According to the results of interviews, the amount of change don't have significant difference, either. The consumers of Milkfisherhome coffee and the event participant are engaged by questionnaires. All other stakeholders were interviewed and confirmed results in a face-to-face manner. Therefore, the plan doesn't split stakeholders into subgroups.

It is necessary to explain that even though we set several objective indicators, we first let stakeholders list the changes to their behavior during the interview, and only provided indicators as reference when they were unable to express their changes. At the end, we verified whether the outcome occurred.

(I) Principal investigator (Bo-Ren Chang)

Bo-Ren Chang is the initiator and training provider of the plan. This plan is Bo-Ren Chang 's passion for his hometown and self-actualization. Therefore, he was included in the evaluation. He has no other partners and team members, so the number of the stakeholder groups is only one. In addition to "increased personal income", "increase self-actualization" is the most important result. To evidence his outcomes, , we search the relevant literatures.

Kang-Wei Lin's study(2017) found the following:

The significance of returning is on its returning value. The returnees, through their diligent hardworking in the villages, have promoted the communities and also reached their self-actualization. This is not something they could accomplish in the cities, where the value is determined by social pressure and their boss.

Therefore, by comparing the literature and the feedback from stakeholder, we can reasonably explain the results.

Table 7 Chain of events and summary of principal investigator

| Defined | Chain of events | Verification of | | Reason for |
|----------------|----------------------------|--------------------|----------------------------|-------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| Increase self- | 1. Dedicated to | 1. Subjective | 1. The principal | The stakeholder |
| actualization | placemaking and | description | investigator grew up in a | provided |
| | resolving issues in his | directly from | fishing village, but only | feedback that it |
| | hometown → Discovered | stakeholders: | got into aquaculture in | significantly |
| | social issues of Mituo | Hopes that more | his hometown 9 years | increased his |
| | (outflow of human | young people | ago. The brand | self- |
| | resources, incomplete | will be willing to | Terminalia Garden | actualization. |
| | ecosystem of the | devote their | operated by his family | Changes in |
| | aquaculture industry) → | efforts to this | during this period of time | behavior match |
| | Began to think about | land, and also | increased its revenue | objective |
| | solutions for these issues | create different | considerably, but he is | indicators, and |
| | →Established the Fisher | channels for | fully aware of industry | based on the |
| | Team to provide fish | young people to | difficulties. He loves | SROI principle |
| | farms with human | make money, | Mituo, Kaohsiung and | of materiality, |
| | resources and promote | thus realizing | hopes that even more | the outcome was |
| | new production methods, | their ideals for | young people will be | determined to be |
| | so that Bo-Ren Chang | | willing to stay and work | material and thus |

| Defined | Chain of events | Verification of | | Reason for |
|---------|--|---|--|------------------|
| | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| outcome | can focus on what he specializes in, that is, marketing and promotion.→Established Milkfisherhome Café to diversify local industries → Established the responsible production system to provide producers of good products with an additional distribution channel → Increase selfactualization 2. Discovered social issues | the future of their hometown. 2. Able to independently list or has at least two of the objective changes below: - Ideals can be described in the process of training members - Expectations for future talent of the fishing village | in different industries of a fishing village. He thus established the Fisher Team, Milkfisherhome Café, and a responsible production platform to create more opportunities. Besides hoping that more young people will be willing to devote their efforts to this land, he has created different channels for young people to make money, thus realizing his | |
| | | | | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|--|---|--|--|
| | incomplete ecosystem of the aquaculture industry) → Began to think about solutions for these issues → Established the Fisher Team to provide fish farms with human resources and promote new production methods, so that Bo-Ren Chang can focus on what he specializes in, that is, marketing and promotion. → Established Milkfisherhome Café to diversify local industries | the process of training members - Future talent for the fishing village is trained through the Fisher Team, showing love for Mituo | 2. He is realizing his expectations for future talent of the aquaculture industry by training Fisher Team members. He is training his own lecturing abilities and promoting his ideals through different activities. | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|-----------------------------|--|----------------------|--|
| | → Established the | | | |
| | responsible production | | | |
| | system to provide | | | |
| | producers of good | | | |
| | products with an | | | |
| | additional distribution | | | |
| | channel → Promoted | | | |
| | responsible production | | | |
| | system → Assisted | | | |
| | primary producers with | | | |
| | the sale of agriculture and | | | |
| | fishery products/Assisted | | | |
| | Fisher Team members in | | | |
| | finding a clearer direction | | | |
| | for sales/Let consumers | | | |
| | know the source of | | | |
| | products → Provided a | | | |

| Defined | Chain of events | Verification of | | Reason for |
|--------------|------------------------------|-----------------|-------------------------------|------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | more transparent | | | |
| | production, sales, and | | | |
| | purchase platform → | | | |
| | Increase self- | | | |
| | actualization | | | |
| | 3. Assisted in organizing 11 | | | |
| | food&fish education | | | |
| | events \rightarrow Trained | | | |
| | lecturing ability through | | | |
| | seminars → Improved | | | |
| | lecturing ability → | | | |
| | Promoted his ideals → | | | |
| | Increase self- | | | |
| | actualization | | | |
| Improves the | Discovered social issues | 1. Subjective | 1. Due to the relatively high | The stakeholders |
| ability to | of Mituo (outflow of | description | age of people in the | provided |

| Defined | Chain of events | Verification of | | Reason for |
|---------------|--|----------------------|--------------------------|-------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| communicate | human resources, | directly from | aquaculture industry, | feedback that it |
| with children | incomplete ecosystem of | stakeholders: | principal investigator | significantly |
| and young | the aquaculture industry) | Gained better | was used to | improved his |
| people | →Began to think about | communication | communicating with | communication |
| | solutions for these issues | ability and the | older people from the | ability. Changes |
| | →When promoting food | ratio of people | beginning. He began | in behavior |
| | and fish education in | sleeping in class | practicing | match objective |
| | junior high schools, Bo- | significantly | communicating with | indicators, and |
| | Ren Chang used adult | decreased. | children and young | based on the |
| | methods to give speeches | 2. Able to | people because the | SROI principle |
| | →Children fell asleep and | independently | Fisher Team needed to | of materiality, |
| | did not learn the concepts | list or has at least | communicate with the | the outcome was |
| | that Bo-Ren Chang | two of the | younger generation when | determined to be |
| | wanted to communicate→ | objective | promoting fish eating | material and thus |
| | | changes below: | education at schools. In | included. |
| | Bo-Ren Chang learned how to communicate with | - More energetic | the process of assisting | |
| | children, and the number | expression | young people in learning | |

| Defined | Chain of events | Verification of | | Reason for |
|---------|--------------------------|-------------------|-----------------------------|------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | children who fell asleep | methods during | aquaculture, principal | |
| | decreased by about 1/3→ | communication | investigator spent a lot of | |
| | Improved ability to | - Uses phrases or | time communicating with | |
| | communicate with | popular things | students in the Fisher | |
| | children and young | among children | Team due to age | |
| | people | or young people | difference and different | |
| | | to express his | operating techniques, | |
| | | opinion during | which is when he learned | |
| | | communication | the language of young | |
| | | - Ratio of sleepy | people and reduced | |
| | | young listeners | miscommunication. | |
| | | in the process of | 2. He trained his lecturing | |
| | | giving a speech | abilities through different | |
| | | | activities and seminars. | |
| | | - Higher | 3. Changing according to | |
| | | frequency of | the audience, he learned | |
| | | young listeners | how to communicate | |

| Defined | Chain of events | Verification of | | Reason for |
|---------------------------|--|--|--|---|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | | speaking or asking questions after | with elementary school and junior high school students. He practiced | |
| | | the speech | how to pass on knowledge to different age groups; this significantly lowered the ratio of people sleeping in class, and in the best case less than five people fell asleep in class. | |
| Increased personal income | 1. Established the Fisher Team→Increased the number of Fisher Team members→Increased the aquaculture area→ | Subjective description directly from stakeholders: Operating revenue of | Established the first campsite and first café in Mituo, attracting tourists and increasing local consumption. | The stakeholder provided feedback that it significantly increased his income. Changes |

| Defined | Chain of events | Verification of Outcome | Stakeholder feedback | Reason for inclusion in |
|---------|---|--|--|--|
| outcome | | Indicators | Stakeholder recuback | report/exclusion |
| | Increased personal income 2. Established Milkfisherhome Café 3. Attracted tourists to Mituo→Increased local consumption→Increased personal income | Terminalia Garden increased Operating revenue of Cool Coast Camping Campsite increased Operating revenue of Milkfisherhome Café increased Increased the number of consumers visiting the township | 2. The responsible production platform assists in the sales of agriculture and aquaculture products, and allows consumers to know that the source of products is trustworthy, so that they will become long-term buyers of aquatic products, leading to increased profits. 3. The Fisher Team increases the manpower of fish farms and expands the farming area. Milkfisherhome | in behavior match objective indicators, and based on the SROI principle of materiality, the outcome was determined to be material and thus included. |

| Defined | Chain of events | Verification of | | Reason for |
|----------|-----------------------------|-------------------|-----------------------------|------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | | | Café No. 1 and No. 2 | |
| | | | attract many consumers | |
| | | | to Mituo. Most | |
| | | | consumers recognize the | |
| | | | hardship of ecological | |
| | | | aquaculture and | |
| | | | environmental efforts | |
| | | | introduced to them at the | |
| | | | café and make purchases, | |
| | | | which increased income. | |
| Improves | Discovered social issues of | 1. Subjective | Principal investigator | The stakeholder |
| problem- | Mituo (outflow of human | description | encountered many | provided |
| solving | resources, incomplete | directly from | difficulties in the process | feedback that it |
| ability | ecosystem of the | stakeholders: | of starting different | significantly |
| | aquaculture industry)→ | Many difficulties | businesses due to the | improved his |
| | Began to think about | (funding, | different fields, such as | problem-solving |
| | solutions for these issues | regulatory | regulatory restrictions on | ability. Changes |

| Defined | Chain of events | Verification of | | Reason for |
|---------|-----------------------------|----------------------|----------------------------|-------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | →Established the Fisher | restrictions, etc.) | land purchase to change | in behavior |
| | Team to provide fish farms | were | the land category into | match objective |
| | with human resources and | encountered | one on which a café can | indicators, and |
| | promote new production | when starting the | be established. Every | based on the |
| | methods, so that Bo-Ren | business, and this | time he encountered | SROI principle |
| | Chang can focus on what he | improved his | difficulties, he would | of materiality, |
| | specializes in, that is, | problem-solving | consult a government | the outcome was |
| | marketing and promotion.→ | ability and | department, and he also | determined to be |
| | Established Milkfisherhome | allowed him to | hired a true café manager | material and thus |
| | Café to diversify local | formulate | to teach him key | included. |
| | industries→Many problems | solutions. | processes. This is how he | |
| | need to be solved to open a | 2. Able to | resolved many | |
| | store and break even, such | independently | difficulties and became | |
| | as purchasing land, coffee | list or has at least | acquainted with many | |
| | brewing technique, cost | two of the | people and government | |
| | calculation, and | two or the | officials, found solutions | |
| | commercialization of the | | to difficulties, | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|--|--|--|--|
| | fishery—Bo-Ren Chang did everything he could to solve the problems he encountered (such as studying the law and seeking the help of others) —Improves problem- solving ability | objective changes below: Compared with before, my attitude towards problems is more active Compared with before, I believe that all problems can be solved with the right method or people Compared with before, I am | significantly improved his problem-solving ability, and motivated him to pass on his knowledge to other people who want to become entrepreneurs. | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|-----------------|-----------------|--|----------------------|--|
| | | more able to use existing resources to solve problems - Compared with before, I better know how to seek external aid to solve problems - Compared with before, I am better able to | | report/exclusion |
| | | grasp the core of problems and concentrate | | |

| Defined | Chain of events | Verification of | | Reason for |
|------------|-----------------------------|--------------------|------------------------------|-------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | | resources to | | |
| | | solve problems | | |
| Poorer | Discovered social issues of | 1. Subjective | Principal investigator 's | The stakeholder |
| family | Mituo (outflow of human | description | family was originally in | provided |
| relations | resources, incomplete | directly from | the aquaculture industry, | feedback that his |
| (negative) | ecosystem of the | stakeholders: He | and his family wanted | family relations |
| | aquaculture industry)→ | fought with | him to focus on their | deteriorated. |
| | Began to think about | family because | core business and stop | Changes in |
| | solutions for these issues | he insisted on his | trying things that he was | behavior match |
| | →Established the Fisher | own ideals, and | unfamiliar with (such as | objective |
| | Team to provide fish farms | finally left his | establishing | indicators, and |
| | with human resources and | family business | Milkfisherhome Café and | based on the |
| | promote new production | and became | a limited liability | SROI principle |
| | methods, so that Bo-Ren | independent. | company). He fought | of materiality, |
| | Chang can focus on what he | 2. Able to | with family because he | the outcome was |
| | specializes in, that is, | independently | insisted on his own | determined to be |
| | marketing and promotion.→ | | ideals, and finally left his | material and thus |

| Defined | Chain of events | Verification of | | Reason for |
|---------|--|----------------------|----------------------|------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | Established Milkfisherhome | list or has at least | family business and | included. |
| | Café to diversify local | two of the | became independent. | |
| | industries→Established the | objective | | |
| | responsible production system to provide producers | changes below: | | |
| | of good products with an | - Frequency of | | |
| | additional distribution | arguments with | | |
| | channel→His family wants | family | | |
| | Bo-Ren Chang to focus on | increased | | |
| | the family business and not | - Number of | | |
| | make high-risk attempts→ | conversations | | |
| | Bo-Ren Chang finally left | with family | | |
| | his family business and | decreased | | |
| | started his own business→ | - Complements | | |
| | Poorer family relations | between family | | |
| | | members | | |
| | | decreased | | |

| Defined | Chain of events | Verification of | | Reason for |
|------------|-----------------------------|-------------------|---------------------------|-------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | | - Frequency of | | |
| | | family trips | | |
| | | decreased | | |
| Poorer | Discovered social issues of | 1. Subjective | Principal investigator's | The stakeholder |
| physical | Mituo (outflow of human | description | immune system | provided |
| health | resources, incomplete | directly from | deteriorated due to | feedback that his |
| (negative) | ecosystem of the | stakeholders: His | holding too many | physical health |
| | aquaculture industry)→ | immune system | positions and being too | deteriorated. |
| | Began to think about | deteriorated due | tired, so he becomes sick | Changes in |
| | solutions for these issues | to holding too | more easily and takes | behavior match |
| | →Established the Fisher | many positions | longer to recover. During | objective |
| | Team to provide fish farms | and being too | the assessment period, he | indicators, and |
| | with human resources and | tired, so he | had acute liver disease, | based on the |
| | promote new production | becomes sick | became unconscious, and | SROI principle |
| | methods, so that Bo-Ren | more easily and | was hospitalized for one | of materiality, |
| | Chang can focus on what he | takes longer to | week. | the outcome was |
| | specializes in, that is, | recover. | | determined to be |

| Defined | Chain of events | Verification of | | Reason for |
|---------|--|----------------------|----------------------|-------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | marketing and promotion.→ | 2. Able to | | material and thus |
| | Established Milkfisherhome | independently | | included. |
| | Café to diversify local | list or has at least | | |
| | industries→Established the | two of the | | |
| | responsible production | objective | | |
| | system to provide producers of good products with an | changes below: | | |
| | additional distribution | - Compared with | | |
| | channel→His family wants | before, my | | |
| | Bo-Ren Chang to focus on | immune system | | |
| | the family business and not | is poorer and I | | |
| | make high-risk attempts→ | more easily get | | |
| | Too busy with work, too | sick | | |
| | tired→Often gets sick→ | - Compared with | | |
| | Poorer physical health | before, it takes | | |

| Defined | Chain of events | Verification of | | Reason for |
|---------|-----------------|------------------|----------------------|------------------|
| outcome | | Outcome | Stakeholder feedback | inclusion in |
| outcome | | Indicators | | report/exclusion |
| | | longer for me to | | |
| | | recover | | |
| | | - Compared with | | |
| | | before, I often | | |
| | | feel tired | | |
| | | - Compared with | | |
| | | before, it is | | |
| | | harder for me to | | |
| | | concentrate | | |

(II) Fisher Team member

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For fisher team, in addition to increasing personal incomes, the most important outcomes are "Clarify career plans" and "improved professional skills in aquaculture". To evidence these results, we reviewed the relevant literatures and find that the highest effectiveness of social work practice is employability (HUANG, 2019). Moreover, studies have found that positive internship experience does help young people clarify employment directions and enhance employability (Jan, 2016).

Besides, according to Hui-Fang Hung's research, the aquaculturists who have 10-20 years farming experiences generally have higher survival rate of cobia and efficient productivity of farming than the one having less experiences (Hung, 2008). In other words, accumulating practical experience through implementation is very crucial in Aquaculture fisheries. Therefore, we could understand and explain why fisher team members considered "Clarify career plans" and "improved professional skills in aquaculture" as the most valuable outcomes by referring to above literatures. In addition, to avoid double counting, we give an explanation of the difference between the outcome "improved self-identity and validation" and "improved professional skills in aquaculture". In fact, the former one is refer to an internal status of mind, and the latter one is related to external learning of technique Based on a research focusing on the young, it found that young people's self-identification is strongly correlated to five elements: autonomy, purpose of life, positive relationship with others, purpose of life, and self-acceptance (Liao, 2009). Fisher team members deal with a lot of challenge during the training, which make them enhance their confidence and feel have more control over their life. Hence, they improved their self-identity and validation. However, improved professional skills in aquaculture is an outcome focus on external skills, which must be accumulate through practical operation. Therefore, these two outcomes are different.

Table 8 Chain of events and summary of Fisher Team members

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|----------------------------------|---------------------------------------|------------------------|--|
| Clarify career | Received Fisher Team training to | 1. Subjective | Students in the Fisher | Stakeholders |
| plans | work at a fish farm→Gained | description | Team gained practical | provided |
| | practical experience→ | directly from | experience at the | feedback that it |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|--|---|--|--|
| | Encountered practical issues or needs—Actively learned professional knowledge and skills in aquaculture—Gained professional knowledge and skills in aquaculture—Became more determined to enter the aquaculture industry after — graduation/Became more determined to start a business in the aquaculture industry after graduation—Clarify career plans | stakeholders: After working at Bo-Ren Chang's fish farm, I know what professional knowledge and skills are needed in practice, what fishermen need in practice. The member showed creativity and determination to get into the fishery industry after graduation and decided to start a | principal investigator's fish farm. Practical issues are encountered during work, and students actively learn professional knowledge on aquaculture, increasing their professional knowledge and skills in aquaculture. After working at principal investigator's fish farm, the student learned what professional knowledge and skills are needed in practice, and what | changed behavior. Changes in behavior match objective indicators, and based on the SROI principle of materiality, the outcome was determined to be material and thus included. |

| Defined | | Verification of | | Reason for |
|---------|-----------------|----------------------|---------------------------|------------------|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | inclusion in |
| outcome | | Outcome maleators | | report/exclusion |
| | | business. The | fishermen need in | |
| | | member has begun | practice. The student | |
| | | to save money to | showed creativity and | |
| | | start the business. | determination to get | |
| | | 2. Able to | into the fishery industry | |
| | | independently list | after graduation. Other | |
| | | or has at least two | students also diligently | |
| | | | learned from the teacher | |
| | | of the objective | after class and decided | |
| | | changes below: | to start a business. | |
| | | - Became clearer | Students either begun to | |
| | | whether or not | save money to start a | |
| | | he/she is interested | business, or learned that | |
| | | in the aquaculture | they did not want to go | |
| | | industry | into the industry in the | |
| | | - Became more | future. | |
| | | confident in work | | |

| Defined | | Verification of | | Reason for |
|-----------|---------------------------------|--------------------|--------------------------|------------------|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | inclusion in |
| outcome | | Outcome maicators | | report/exclusion |
| | | - Gained greater | | |
| | | passion for work | | |
| | | - Became more | | |
| | | determined to | | |
| | | enter the | | |
| | | aquaculture | | |
| | | industry after | | |
| | | graduation | | |
| | | - Became more | | |
| | | determined to | | |
| | | establish a fish | | |
| | | farm after | | |
| | | graduation | | |
| Increased | 1. Received Fisher Team | 1. Subjective | Most students became | Stakeholders |
| personal | training to work at a fish farm | description | interns at the fish farm | provided |
| income | →Gained practical experience | | while they were still in | feedback that it |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|--|---------------------------------------|--|--|
| | → Encountered practical issues or needs → Actively learned professional knowledge and skills in aquaculture → Gained professional knowledge and skills in aquaculture → Employed by Bo-Ren Chang and other fish farmers → Increased personal income Received Fisher Team training to work at a fish farm → Obtained connections and resources→Obtained his own aquaculture business → Increased personal income | expenses - Able to | school. Work hours include weekdays and summer and winter vacation. Principal investigator and collaborating fish farms all paid students salaries, so the internships increased students' income and enabled them to pay living expenses or tuition, increasing their economic independence. Some students had saved NT\$1 million even | increased their income. Based on the SROI principle of materiality, the outcome was determined to be material and thus included. |

| Defined | | Verification of | | Reason for |
|---------------|---------------------------------|--------------------|--------------------------|------------------|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | inclusion in |
| 040001110 | | | | report/exclusion |
| | | | before graduation to | |
| | | | start their own business | |
| | | | after graduation. | |
| Improved | Received Fisher Team | 1. Subjective | 1.After working at | Stakeholders |
| interpersonal | training to work at a fish farm | description | Principal | provided |
| relation | →Gained practical experience | directly from | investigator's fish | feedback that it |
| | →Encountered practical | stakeholders: | farm, students knew | improved |
| | issues or needs→Actively | Some problems | what professional | interpersonal |
| | learned professional | required | knowledge and skills | relations. |
| | knowledge and skills in | discussion with | are needed in practice, | Changes in |
| | aquaculture→Engaged in | teachers in school | would ask teachers | behavior match |
| | | and were resolved | questions at school, or | objective |
| | discussion, exchange, and | when they | teachers would | indicators, and |
| | consultation with teachers, | returned. This | discuss how they | based on the |
| | students, and workers in the | increased | were doing, | SROI principle |
| | aquaculture industry→ | opportunities for | increasing | of materiality, |
| | Increased opportunities for | exchange and | opportunities for | the outcome was |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|-----------------|---|--|---|--|
| | interactions with teachers, students, and workers in the aquaculture industry→ Improved interpersonal relations | discussion between Fisher Team members, other students, teachers, and aquaculture related businesses, improving interpersonal relations. 2. Able to independently list or has at least two | positive interactions with students. 2.During their internship at the fish farm, unexpected problems would often occur and students needed to ask principal investigator or other members of the Fisher Team. Some problems required discussion with teachers in | determined to be material and thus included. |
| | | of the objective changes below: | school and were resolved when they returned. This | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|-----------------|-----------------|---|---|--|
| | | This increased opportunities to chat with teachers, students, other members, and aquaculture related businesses This increased opportunities to discuss aquaculture knowledge with teachers, students, other members, and aquaculture related businesses | increased opportunities for exchange and discussion between Fisher Team members and other students and teachers, improving interpersonal relations. | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|-----------------|--|----------------------|--|
| | | This increased the depth of discussions aquaculture knowledge with teachers, students, other members, and aquaculture related businesses Felt positive recognition from teachers, students, other members, and aquaculture related businesses | | |

| Defined | | Verification of | | Reason for |
|---------------------------------------|---|---|--|--|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | inclusion in report/exclusion |
| Improved self-identity and validation | Received Fisher Team training to work at a fish farm—Gained practical experience— Encountered practical issues or needs—Actively learned professional knowledge and skills in aquaculture—Required to have a greater sense of responsibility at work—Solved problems encountered in aquaculture work—Solved problems and completed work—Improved self-identity and validation | Able to independently list or has at least two of the objective changes below: Increased validation of abilities Decreased self- denial Felt that he/she gained more professional skills | After working at principal investigator's fish farm, students knew what professional knowledge and skills are needed in practice, what fishermen need in practice, and actively learned professional knowledge of aquaculture to resolve technical issues encountered at work. Students successfully completed work after solving the problems, and gained a greater | Changes in behavior judged based on objective indicators. Based on the SROI principle of materiality, the outcome was determined to be material and thus included. |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--|---|--|--|---|
| Improved | Received Fisher Team training to | Felt capable of completing work Felt capable of solving problems | sense of responsibility, confidence, and sense of achievement. Students in the Fisher | Changes in |
| professional skills in aquaculture | work at a fish farm—Gained practical experience— Encountered practical issues or needs—Actively learned professional knowledge and skills in aquaculture—Continued to learn the latest aquaculture technology—Improved professional skills in aquaculture | independently list or has at least two of the objective changes below: - Increased knowledge on aquaculture | Team gained practical experience at the fish farm of principal investigator. Practical issues are encountered during work, and students actively learn professional knowledge on aquaculture, increasing their | behavior judged based on objective indicators. Based on the SROI principle of materiality, the outcome was determined to be material and thus |

| Defined | | Verification of | | Reason for |
|--------------|----------------------------------|---------------------|-------------------------|------------------|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | inclusion in |
| outcome | | Outcome maicators | | report/exclusion |
| | | - Improved | professional knowledge | included. |
| | | aquaculture skills | and skills in | |
| | | - Compared with | aquaculture. | |
| | | before, | | |
| | | production of | | |
| | | aquatic products | | |
| | | increased | | |
| | | - Compared with | | |
| | | before, the | | |
| | | quality of aquatic | | |
| | | products | | |
| | | improved | | |
| Sense of | Received Fisher Team training to | 1. Able to | During the internship | Changes in |
| achievement | work at a fish farm→Obtained | independently list | process at a fish farm, | behavior judged |
| from | connections and resources→ | or has at least two | the work schedule fits | based on |
| successfully | Obtained his own aquaculture | or mas at reast two | well with interns' | objective |

| Defined | CI | Verification of | | Reason for |
|---------------------|---|---|---|--|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | inclusion in report/exclusion |
| starting a business | business→Sense of achievement from successfully starting a business | of the objective changes below: Ideals can be described or practiced in the process of starting a business Completed life goals in the process of starting a business | lifestyles and allowed them to give full play to their expertise. The salaries they made were higher than the salaries elsewhere, and they were able to start their own business with the assistance of principal investigator, giving them the sense of achievement from | indicators. Based on the SROI principle of materiality, the outcome was determined to be material and thus included. |
| | | - I feel what I am doing is very meaningful and only a few people | starting their own business. They felt that work was challenging and they needed to be fully devoted to | |

| Defined | | Verification of | | Reason for |
|----------------|-------------------------------|-----------------------|---------------------------|-------------------|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | inclusion in |
| outcome | | Outcome mulcators | | report/exclusion |
| | | are able to do the | maintain this sense of | |
| | | same | achievement. | |
| | | - I feel that my work | | |
| | | is challenging and I | | |
| | | am fully devoted | | |
| Caused fatigue | The nature of work requires a | 1. Subjective | During the internship in | Stakeholders |
| (negative) | large amount of labor→Long | description | the Fisher Team, interns | provided |
| | hours under the sun→Causes | directly from | worked at a fish farm | feedback that the |
| | fatigue | stakeholders: | outdoors every day, and | intensive |
| | 3 | Most of the work | were under the | physical labor |
| | | in a fish farm is | scorching sun during | caused |
| | | physical labor | the summer cleaning | discomfort. |
| | | under the sun, so | the pond and feeding | Changes in |
| | | the physical | fish. Students | behavior match |
| | | discomfort it | responded that the | objective |
| | | causes is the only | internship at a fish farm | indicators, and |
| | | negative effect. | was harder compared to | based on the |

| Defined | | Verification of | | Reason for |
|---------|-----------------|---------------------|-----------------------|-------------------|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | inclusion in |
| outcome | | Outcome mulcators | | report/exclusion |
| | | 2. Able to | other work | SROI principle |
| | | independently list | opportunities and was | of materiality, |
| | | or has at least two | physically taxing. | the outcome was |
| | | | | determined to be |
| | | of the objective | | material and thus |
| | | changes below: | | included. |
| | | - Often feels | | |
| | | back pain and | | |
| | | soreness | | |
| | | - Feels tired and | | |
| | | does not have | | |
| | | the strength to | | |
| | | do other things | | |
| | | - Requires long | | |
| | | hours of | | |
| | | physical labor | | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|-----------------|-----------------|---------------------------------------|----------------------|--|
| | | - Requires long | | |
| | | hours under the | | |
| | | sun | | |
| | | | | |
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(III) Collaborating fish farms

At present, the one of biggest challenge for Taiwan's cultured fisheries is the aging population (Chang, 2012), which lead to low productivity. Meanwhile, the poor industry prospects make young people are unwilling to work in this industry. Therefore, it is reasonable that hiring fisher team members with professional aquaculture skills will increase the productivity of aging aquaculturist.

Table 9 Chain of events and summary of collaborating fish farms

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|---------------------------------|---------------------------------------|--------------------------|--|
| Increased | Worked together with the Fisher | 1. Able to | Students in the Fisher | The area of fish |
| income of fish | Team→Accepted Fisher Team | independently list | Team gained practical | farming changed |
| farms | members to work at their own | or has at least two | experience at the fish | based on |
| | fish farm→Observed the work | | farm of principal | objective |
| | ability and attitude of Fisher | of the objective | investigator, and intern | indicators. Based |
| | Team members→Found suitable | changes below: | at collaborating fish | on the SROI |
| | Fisher Team members→Allowed | -Production | farms. Fish farm owners | principle of |
| | Fisher Team members to | increased due to the | gained extra manpower, | materiality, the |
| | continue working—Increased | increase in | more fish to sell, and a | outcome was |
| | continue working—increased | aquaculture area | larger aquaculture area. | determined to be |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------------|---|---|---|--|
| | fish farm workers→Increased supply of feed that can be sold/Increased aquaculture area →Increased income of fish farms | -Sales increased due to the increased production -Due to the increase in professional workers, production and survival rates increased, which increased sales | | material and thus included. |
| Reduced production costs | Worked together with the Fisher Team → Accepted Fisher Team members to work at their own fish farm → Observed the work ability and attitude of Fisher Team | 1. Able to independently list or has at least two of the objective changes below: | 1. Students in the Fisher Team gained practical experience at the fish farm of principal investigator, and intern at collaborating fish | Matched objective indicators, and based on the SROI principle of materiality, the outcome was determined to be |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|---|--|--|--|
| | members→Found suitable Fisher Team members→ Allowed Fisher Team members to continue working →Provided full-time work to interns after Fisher Team members graduated→Gained young professional talent to help share their workload→ Improved the regular labor cost structure→Reduced production costs | Reduced the number of graduates hired Reduced personnel expenses Increased work efficiency Reduced the workload of original employees Reduced the time and effort searching for suitable employees The joining of young | farms. Fish farm owners observe the work ability and attitude of interns to find suitable interns that may continue to serve as interns or become formal employees, providing them with young professional talent to help share their workload. Due to their experience in the Fisher Team, the interns have better abilities than regular | material and thus included. |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|--|--|--|--|
| | 2. Worked together with the Fisher Team→Accepted Fisher Team members to work at their own fish farm→ Observed the work ability and attitude of Fisher Team members→Found suitable Fisher Team members→ Allowed Fisher Team members to continue working →Fisher Team members did not continue to work at the fish farm where they were an | professionals who know how to repair a waterwheel reduced the frequency it needed to be repaired - Due to the lower frequency of waterwheel repairs, repair expenses also decreased | graduates, which reduces personnel expenses. 2. Students in the Fisher Team gained practical experience at the fish farm of principal investigator, and intern at collaborating fish farms. Fish farm owners gain manpower with practical experience and related knowledge, who can | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|-------------------------------|---------------------------------------|--------------------------------|--|
| | intern after graduation→ | | also help repair the | |
| | Returned to work at Bo-Ren | | waterwheel and reduce the fish | |
| | Chang's fish farm→ | | farm's repair | |
| | Improved the regular labor | | expenses. | |
| | cost structure→Reduced | | | |
| | production costs | | | |
| | 3. Worked together with the | | | |
| | Fisher Team→Accepted | | | |
| | Fisher Team members to | | | |
| | work at their own fish farm→ | | | |
| | Observed the work ability and | | | |
| | attitude of Fisher Team | | | |
| | members→Found suitable | | | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|-------------------------------|---------------------------------------|----------------------|--|
| | Fisher Team members→ | | | |
| | Allowed Fisher Team | | | |
| | members to continue working | | | |
| | →Fisher Team members | | | |
| | provide manpower to repair | | | |
| | the waterwheels of fish farms | | | |
| | →Reduced fish farm | | | |
| | waterwheel repair expenses→ | | | |
| | Reduced production costs | | | |
| | 4. Worked together with the | | | |
| | Fisher Team→Accepted | | | |
| | Fisher Team members to | | | |
| | work at their own fish farm→ | | | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|--------------------------------|------------------------------------|----------------------|--|
| | Observed the work ability and | | | |
| | attitude of Fisher Team | | | |
| | members→Found suitable | | | |
| | Fisher Team members→ | | | |
| | Allowed Fisher Team | | | |
| | members to continue working | | | |
| | →Fisher Team members | | | |
| | assist in cleaning the fish | | | |
| | farm's environment | | | |
| | (weeding, etc.)→Fish farmers | | | |
| | do not need to hire additional | | | |
| | workers for weeding→Fish | | | |
| | farmers do not need to | | | |

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion |
|--------------------|----------------------------|------------------------------------|----------------------|--|
| | purchase herbicide→Reduced | | | |
| | production costs | | | |

(IV) Employees of Milkfisherhome Café

The most valuable outcome in this stakeholder group is "improved interpersonal relations" and "gained a sense of achievement". According to Yi-Hsien Wang's study, emotional communication can effectively improve interpersonal relationships, interpersonal trust, and reduce relationship conflicts (Wang, 2004). In Milkfisherhome Café, the goal is not to make big moneys. Instead, the goal is to advocate Mituo's local culture and strengthen local identity. Therefore, the employees of Milkfisherhome Café can do their job in a more creative way and share their passion with each other and customers, which can reasonably evidence the outcomes of "improved interpersonal relations". In addition, gaining positive feedback from customers and co-workers can greatly enhance a sense of achievement (Bai, 2012).

Table 10 Chain of events and summary of employees of Milkfisherhome Café

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|-----------|----------------------|------------------------------|---------------------|-----------------------|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| Increased | Go to work at | 1. Subjective description | 1. Women who get | Stakeholders provided |
| personal | Milkfisherhome Café→ | directly from | married, have | feedback that it |
| income | Gained a salary→ | stakeholders: | children, and | increased their |
| | Increased personal | - Obtain living | return to Mituo | income. Based on the |
| | income | expenses | without a full-time | SROI principle of |
| | | A11. (. | job so they can | materiality, the |
| | | - Able to | take care of their | outcome was |
| | | independently pay tuition | family work part | determined to be |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------|-----------------|-------------------------|----------------------|----------------------|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | | | time at | material and thus |
| | | | Milkfisherhome | included. |
| | | | Café No. 1 or No. | |
| | | | 2. Besides flexible | |
| | | | work hours, they | |
| | | | also gain | |
| | | | additional income | |
| | | | to help with | |
| | | | family expenses. | |
| | | | 2. Students studying | |
| | | | in Mituo work | |
| | | | part time at the | |
| | | | cafés after school | |
| | | | to pay for their | |
| | | | tuition and living | |
| | | | expenses. | |
| | | | 3. Young people | |
| | | | living in areas | |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|-----------------|-----------------------|---------------------------|-----------------------|-----------------------|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | | | around Mituo who | |
| | | | want a more | |
| | | | relaxed job with | |
| | | | flexible hours | |
| | | | become full-time | |
| | | | baristas at | |
| | | | Milkfisherhome | |
| | | | Café No. 1, | |
| | | | learning coffee | |
| | | | brewing | |
| | | | techniques and | |
| | | | earning a living. | |
| Gain a sense of | Go to work at | 1. Subjective description | While working at | Stakeholders provided |
| accomplishment | Milkfisherhome Café→ | directly from | Milkfisherhome Café, | feedback that he/she |
| | Learned professional | stakeholders: Besides | besides learning how | gained a sense of |
| | coffee brewing | learning how to brew | to brew coffee and | achievement due to |
| | techniques - Actually | coffee and gaining | gaining the praise of | praise. Changes in |
| | brewed coffee for | praise from customers, | my customers, I also | behavior match |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------|---------------------------|--------------------------|-------------------------|-----------------------|
| outcome | | Indicators | feedback | in report/exclusion |
| | customers to taste→ | I also brought my | brought my | objective indicators, |
| | Customers praised the | professional coffee | professional coffee | and based on the |
| | coffee for its good taste | brewing techniques | brewing techniques | SROI principle of |
| | →Gain a sense of | home and to school to | home and to school to | materiality, the |
| | accomplishment | share with family and | share with family and | outcome was |
| | 1 | friends, where I | friends, where I gained | determined to be |
| | | gained a sense of | a sense of | material and thus |
| | | achievement from that | achievement from the | included. |
| | | praise. | recognition of family | |
| | | 2. Able to independently | and the teacher. | |
| | | list or has at least two | | |
| | | of the objective | | |
| | | changes below: | | |
| | | - Felt pleased that my | | |
| | | efforts paid off | | |
| | | - Felt pleased and feel | | |
| | | that I am able to | | |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|-----------------------------|--|---|--|--|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| Gain a brief spiritual rest | Go to work at Milkfisherhome Café→ Housewives are under | Indicators complete more than what I can imagine - Felt pleased and feel capable of taking on even more challenging tasks 1. Able to independently list or has at least two of the objective | While working at Milkfisherhome Café, full-time mothers can | Changes in thought judged based on objective indicators. |
| | great pressure→ Working at the café allows workers to temporarily get away from their original daily | changes below: - I briefly forget my worries in life - I felt very relaxed - I begin to think about happy things | take a brief break from the pressure of caring for their children 24 hours a day; it re- energizes them before they face the cumbersome chores waiting for them at home. | Based on the SROI principle of materiality, the outcome was determined to be material and thus included. |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------------|-------------------------|--|--|------------------------------------|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | life situations→Gain a | | | |
| | brief spiritual rest | | | |
| Improve self- | Go to work at | 1. Able to independently | Besides brewing | Changes in behavior |
| identity | Milkfisherhome Café→ | list or has at least two | coffee at | judged based on |
| | Assisted in industry | of the objective | Milkfisherhome Café, | objective indicators. |
| | promotion and promoted | changes below: | employees also need to introduce the | Based on the SROI principle of |
| | local foods→Introduced | - I believe that my | aquatic products that | materiality, the |
| | the food production | hometown is a place | are sold there, so they | outcome was |
| | process and place of | worth visiting, and I am willing to bring my | need to better understand the | determined to be material and thus |
| | production to customers | friends here. | ecological aquaculture | included. |
| | →Increased | - I am willing to share | process, and also need | |
| | identification with the | stories about my | to introduce | |
| | community→Improve | hometown with others, | consumers to fun things to do and good | |
| | self-identity | and I feel a sense of | food to eat in Mituo. | |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------------|----------------------|---------------------------|-------------------------|-----------------------|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | | pride when talking | To enrich their | |
| | | about my hometown. | introductions, | |
| | | - I have a sense of | employees also need | |
| | | purpose for my | to learn about the | |
| | | hometown and am | history and culture of | |
| | | willing dedicate my | Mituo and aquaculture | |
| | | efforts to making it | techniques, which let | |
| | | better. | them understand the | |
| | | | beauty of their | |
| | | | hometown. Employees | |
| | | | are willing to let more | |
| | | | people learn about | |
| | | | their hometown and | |
| | | | hope to make their | |
| | | | hometown better. | |
| Improve | Go to work at | 1. Subjective description | Besides brewing | Stakeholders provided |
| communication | Milkfisherhome Café→ | directly from | coffee at | feedback that it |
| skills | Assisted in industry | stakeholders: Gain | Milkfisherhome Café, | improved their |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------|--|---|---|------------------------------------|
| outcome | | Indicators | feedback | in report/exclusion |
| | promotion and promoted | better communication | employees also need | communication skills. |
| | local foods→Introduced | ability through | to introduce the | Changes in behavior |
| | the food production | introductions to | aquatic products that | match objective |
| | process and place of | consumers | are sold there, so they | indicators, and based |
| | production to customers | 2. Able to independently | need to better | on the SROI principle |
| | →Trained eloquence and | list or has at least two | understand the | of materiality, the |
| | communication ability→ | of the objective | ecological aquaculture | outcome was |
| | Learned how to talk to others and find topics to | changes below: | process to introduce it to consumers. Besides | determined to be material and thus |
| | talk about→Customers make purchases or | - Gain better communication ability | gaining better communication ability, | included. |
| | provide positive feedback→Improve communication skills | Able to more clearly express opinions, and communicate opinions with others Shorter time | employees are also able to clearly communicate their opinions with consumers. | |
| | | communicating with others compared with | | |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------------|---------------------------|---------------------------|------------------------|--------------------------|
| outcome | | Indicators | feedback | in report/exclusion |
| | | the past and able to | | |
| | | more easily reach an | | |
| | | agreement | | |
| Improved | Go to work at | 1. Subjective description | While working at the | Stakeholders provided |
| interpersonal | Milkfisherhome Café→ | directly from | café, many customers | feedback that it |
| relations | Have a second expertise | stakeholders: Besides | were neighbors and | improved |
| | or interest (photography) | being acquainted with | students that | interpersonal relations. |
| | →Learned about | many new friends, | employees were not | Changes in behavior |
| | common interests while | friends that originally | familiar with. Through | match objective |
| | having a conversation | were not familiar now | the conversation and | indicators, and based |
| | with customers→ | have more things to | product sales process, | on the SROI principle |
| | Exchange techniques | talk about, and the | employees shared their | of materiality, the |
| | and experience→ | frequency of | work experience and | outcome was |
| | • | conversations | the way food is | determined to be |
| | Expands social network | increased. | cooked. Some | material and thus |
| | →Improved | 2. Able to independently | employees further | included. |
| | interpersonal relations | list or has at least two | participated in | |
| | | | regional organizations | |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|------------|---|---|--|---|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | | of the objective | and became | |
| | | changes below: | acquainted with even | |
| | | Became acquainted with new friends Higher frequency of conversations with existing friends Increased participation in social events | more locals, improving their interpersonal relations. | |
| Improved | Go to work at | 1. Subjective description | While working at | Stakeholders provided |
| aesthetics | Milkfisherhome Café→ | directly from | Milkfisherhome Café, | feedback that it |
| acomones | Have a second expertise or interest (photography) →Bo-Ren Chang is | stakeholders: The beauty of a fishing village can compose | the beauty of a fishing village can compose completely different | changed behavior. Changes in behavior match objective |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------|---------------------------|--------------------------|-------------------------|-----------------------|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | willing to let employees | completely different | views at different | indicators, and based |
| | try different things to | views at different | times and with | on the SROI principle |
| | attract customers→ | times and with | different scenery, | of materiality, the |
| | Attempt different layouts | different scenery, | leading to the | outcome was |
| | and display methods in | leading to the | development of | determined to be |
| | the café→Practice | development of | aesthetic abilities. | material and thus |
| | composition→Improved | aesthetic abilities. | Photos are not only | included. |
| | view finding ability | 2. Able to independently | used for promotion of | |
| | when taking photos→ | list or has at least two | the café, but also | |
| | Improved aesthetics | of the objective | attract couples to take | |
| | improved aesthetics | | their wedding photos | |
| | | changes below: | here. This aesthetic | |
| | | - I am more able to | ability cannot be | |
| | | understand the | gained through any | |
| | | composition when | course or anywhere | |
| | | admiring photos | else. The worker | |
| | | | indicated that the | |
| | | | outcome will become | |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|------------------------------------|--|--|---|---|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | | I am able to find different views to take photos I have become more perceptive when it comes to aesthetics Compared to before, I am more willing to choose designer products | a lifetime asset. | |
| Improved entrepreneurial abilities | Go to work at Milkfisherhome Café→ Witnessed Bo-Ren Chang attempt different things, promote aquatic products, and expand | directly from stakeholders: Employees of Milkfisherhome Café | While working at Milkfisherhome Café, employees learned the skills needed to manage a store, including source of funding, personnel | Changes in behavior judged based on objective indicators. Based on the SROI principle of materiality, the outcome was |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------|-----------------------------------|--------------------------|--------------------------|----------------------|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | channels → Witnessed | sales meetings every | management, and | determined to be |
| | Bo-Ren Chang's courage | week to discuss | logistics. This | material and thus |
| | in attempting something | | experience will reduce | included. |
| | | | trial and error when | |
| | $new \rightarrow Felt$ capable of | | they start their own | |
| | solving problems → | that this helped | businesses in the | |
| | Improved | improve their | future, and gives them | |
| | _ | individual | a better understanding | |
| | entrepreneurial abilities | entrepreneurial | of market demand and | |
| | 2. Go to work at | abilities. | consumer preferences, | |
| | Milkfisherhome Café→ | | making them willing | |
| | Learned sales methods→ | 2. Able to independently | to attempt different | |
| | | list or has at least two | solutions to the issues | |
| | Discuss the business | of the objective | they encounter. The | |
| | situation each week and | changes below: | employees indicated | |
| | proposed strategies to | | that this ability is not | |
| | gain the favor of | - Understands | easy to obtain when | |
| | <i>8</i> | industry and | working in other | |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------|--|---|---|----------------------|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | customers and increase sales → Adjust strategies | market demand and where to find opportunities. | places, and was only possible because Bo- Ren Chang gives them | |
| | based on customer feedback and revenue→ Continued to attempt different business methods in Milkfisherhome Café→ Improved entrepreneurial abilities | Improve problem-solving ability Willing to attempt and create new possibilities (technologies, methods) Improve networking ability Improve team leadership Increase tolerance for setbacks or failure | more room for learning and opportunities to practice business administration. | |

| Defined | Chain of events | Verification of Outcome | Stakeholder | Reason for inclusion |
|---------|-----------------|-------------------------|-------------|----------------------|
| outcome | Chain of events | Indicators | feedback | in report/exclusion |
| | | | | |

(V) Local fishermen's association

The most important outcome for local fishermen's association is "improved relationships between local residents and the fishermen's association". The local fishermen's association is a special organization in Taiwan. It has a policy mission that serving the fishermen and promoting local prosperity. After the fishermen earn money, they will deposit their money into the fishermen's association. It can be said that the survival of fishermen's association is strongly associated to the number and economic status of local fishermen. However, fishing villages are now declining, which has indirectly caused the decline of fishing association and the pressure of survival, and made the fishing clubs to have less resources to strengthen their relationship with fishermen. Therefore, improving relationships between local residents and the fishermen's association is considered as a significant change here. To evidence these results, we reviewed the relevant literatures and have the findings below.

Sing-Hwa Hu's study(2014) found the following:

The system of Taiwan fishermen's associations derived from Japanese ruled period. In the past century, Taiwan fishermen's associations have played the very important role in fishery developments of Taiwan. After War II, Taiwan fishermen's associations not only served as a communication bridge between government and fishermen, but offered various services on fishing and living necessities for fishermen. With environmental change, most of Taiwan fishermen's associations faced financial troubles and function recession, the number of Taiwan fishermen's associations had been merged from 95 units in 1950s to 1 national association (the National Fishermen's Association, Taiwan, ROC) with 39 area associations. In the future, the National Fishermen's Association should create more new

fishery economics to increase financial support, also need to improve the service quality to fulfill fishermen's needs.

Nowadays, the fishermen have a high degree of freedom, but the fishermen's associations have not been able to adjust and improve in time (Hu, 2014). As a result, many fishermen's associations face survival challenge, and their services cannot meet the needs of fishermen. After comparing the literatures, we judge that the results of the local fishermen's associations are reasonable and can be explained.

Table 11 Chain of events and summary of the local fishermen's association

| Defined | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|-------------------|----------------------------|---------------------------|--------------------------|-----------------------|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | in report/exclusion |
| Improved | Bo-Ren Chang gained the | 1. Subjective | The café jointly | Changes in behavior |
| relationships | fishermen's association's | description directly | opened with principal | judged based on |
| between local | recognition for his | from stakeholders: | investigator is among | objective indicators. |
| residents and the | 9 | Milkfisherhome | the few cafés of Mituo, | Based on the SROI |
| fishermen's | enthusiasm and identity as | | and gives fishermen | principle of |
| association | a local→After | Café No. 2 has | the opportunity to | materiality, the |
| | Milkfisherhome Café No. | become a place | directly sell their | outcome was |
| | 1 began to operate | where locals gather | products. The site is | determined to be |
| | | and socialize, and it | also used to organize | material and thus |
| | smoothly, he worked with | , | fish eating education or | included. |
| | | also increased their | cultural promotion | |

| Defined | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|---------|-----------------------------|-----------------------------|--|----------------------|
| outcome | Chain of events | Outcome Indicators | Stakeholder recuback | in report/exclusion |
| | the fishermen's | identification with | events, and make even | |
| | association in establishing | the fishermen's | more people willing to | |
| | Milkfisherhome Café No. | association. | participate in events | |
| | 2→Milkfisherhome Café | 2. Able to | organized by the fishermen's | |
| | No. 2 became a | independently list or | association. The | |
| | demonstration site with | has at least two of | director of the | |
| | features of Mituo→ | the objective | fishermen's association | |
| | Milkfisherhome Café No. | changes below: | said that he will always remember what | |
| | 2 became a site for | - Local residents | principal investigator | |
| | communication and | more frequently visited the | said to him: Milkfish is an important | |
| | exchange between local | fishermen's | ecological aquaculture | |
| | fishermen and the | association | industry in Mituo, | |
| | fishermen's association→ | - Local residents | Kaohsiung, but people | |
| | Fishermen can discuss | spend more time | all believe that milkfish are produced | |

| Defined | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|---------|--------------------------|--------------------|-------------------------|----------------------|
| outcome | 0.1.0.1.0 | Outcome Indicators | | in report/exclusion |
| | their recent catch, | at the fishermen's | in Tainan, and it will | |
| | exchange techniques, and | association | require stronger | |
| | talk about weather and | - The number of | identification and | |
| | life at Milkfisherhome | participants in | connection between | |
| | | events organized | residents and the | |
| | Café No. 2→Improved | by the | industry to change this | |
| | relationships between | fishermen's | stereotype. | |
| | local residents and the | association | From then on the | |
| | fishermen's association | increased | fishermen's association | |
| | rishermen s association | - Reduced the time | and principal | |
| | | and effort spent | investigator organized | |
| | | on promotion | annual milkfish events | |
| | | before organizing | for Mituo residents to | |
| | | events | recognize the industry | |
| | | events | and also improve | |
| | | | relations between the | |
| | | | fishermen's association | |
| | | | and local residents | |

| Defined | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|----------------------------|---|---|--|--|
| outcome | Chain of events | Outcome Indicators | Stakenoluci lecuback | in report/exclusion |
| | | | (Cheng, 2007). | |
| Increase | Bo-Ren Chang gained the | 1. Subjective | Opening a specialty | Changes in behavior |
| connection | fishermen's association's | description directly | café with principal | judged based on |
| between tourists and Mituo | recognition for his | from stakeholders: | investigator has attracted more tourists | objective indicators. Based on the SROI |
| | enthusiasm and identity as a local→After | Not many tourists visited Mituo in the | to Mituo, and has | principle of |
| | Milkfisherhome Café No. | past, but | opened a new channel for direct sales of | materiality, the outcome was |
| | 1 began to operate | Milkfisherhome | aquatic products other | determined to be material and thus |
| | smoothly, he worked with | Café No. 1 and No. | than selling to wholesalers. | included. |
| | the fishermen's | 2 have attracted over 3,000 customers, so | | |
| | association in establishing Milkfisherhome Café No. | far. | | |
| | 2→Milkfisherhome Café | 2. Able to | | |
| | No. 2 became a | independently list or | | |

| Defined | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|--------------------|--------------------------------|----------------------|--------------------------|-----------------------|
| outcome | Outcome Indicators Stakeholder | Stakenoluel leeuback | in report/exclusion | |
| | demonstration site with | has at least two of | | |
| | features of Mituo→Many | the objective | | |
| | tourists came for the | changes below: | | |
| | relaxed atmosphere→ | - The number of | | |
| | Increased connection | tourist each year | | |
| | between tourists and | increased | | |
| | Mituo | - More people are | | |
| | | asking about the | | |
| | | fishermen's | | |
| | | association (via | | |
| | | phone, Internet) | | |
| | | | | |
| Made more | Bo-Ren Chang gained the | 1. Subjective | Principal investigator's | Changes in behavior |
| young people | fishermen's association's | description directly | efforts in Mituo have | judged based on |
| willing to stay in | recognition for his | from stakeholders: | increased the number | objective indicators. |
| the fishing | enthusiasm and identity as | Milkfisherhome | of locals staying to | Based on the SROI |
| village | a local→After | Café No. 2 working | work in their | principle of |

| Defined | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|---------|-----------------------------|-----------------------|-------------------------|----------------------|
| outcome | Chain of Cychas | Outcome Indicators | | in report/exclusion |
| | Milkfisherhome Café No. | with principal | hometown. More | materiality, the |
| | 1 began to operate | investigator's Fisher | young people are | outcome was |
| | smoothly, he worked with | Team gives local | opening savings | determined to be |
| | the fishermen's | youth something to | accounts at the | material and thus |
| | association in establishing | look forward to in | fishermen's | included. |
| | Milkfisherhome Café No. | their hometown, and | association, the local | |
| | 2→Milkfisherhome Café | further makes them | bank. More young | |
| | No. 2 became a | willing to stay and | people are willing to | |
| | demonstration site with | work there. | stay in Mituo and work | |
| | features of Mituo→A site | 2. Able to | in the aquaculture | |
| | is available for fisheries | independently list or | industry due to their | |
| | education and | has at least two of | training in the Fisher | |
| | training/Attracted young | the objective | Team, which lowered | |
| | fishermen to exchange | | the age of fishermen | |
| | | changes below: | and increased the | |
| | their practical experience | - The average age | number of workers in | |
| | and life experiences→ | of farmers and | fisheries, allowing the | |
| | Strengthened the | | fishermen's association | |

| Defined | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|---------|---|--|------------------------|----------------------|
| outcome | Chain of events | Outcome Indicators | Stakeholder feedback | in report/exclusion |
| | relationships between young local fishermen and their enthusiasm for fisheries→Cultivated | fishermen in Mituo decreased - The population working in | to continue operating. | |
| | young talent for fisheries → Made more young people willing to stay in the fishing village | agriculture and fisheries in Mituo increased The number of savings accounts opened by young people in Mituo increased | | |

(VI) Consumers of Milkfisherhome Café



Table 12 Chain of events and summary of consumers of Milkfisherhome Café

| Defined outcome | Verification of Outcome | Verification of | Stakeholder feedback | Reason for inclusion |
|----------------------|-------------------------|-----------------------|----------------------|-----------------------|
| Defined outcome | Indicators | Outcome Indicators | Stakenoluci ieeuback | in report/exclusion |
| Brief spiritual rest | Consumers come to | 1. Respondents that | There is no minimum | Changes in thought |
| | Milkfisherhome café to | selected at least two | charge when I go to | judged based on |
| | drink coffee →The café | items in the | the café, and the | objective indicators. |
| | drink coffee → The care | | workers there are | Based on the SROI |
| | | questionnaire: | | |

| Defined outcome | Verification of Outcome | Verification of | Stakeholder feedback | Reason for inclusion |
|------------------------|-------------------------|-----------------------|---------------------------|------------------------|
| Defined outcome | Indicators | Outcome Indicators | Stakeholder recuback | in report/exclusion |
| | faces the ocean →Enjoy | - I briefly forget | locals who introduce | principle of |
| | some leisure time→Brief | my worries in life | and share interesting | materiality, the |
| | eniritual roet | - I felt very relaxed | people, events, and | outcome was |
| | spiritual rest | - I begin to think | things, letting people | determined to be |
| | | about happy | gain brief spiritual rest | material and thus |
| | | things | and forget about their | included. With |
| | | | worries in life. | consideration to the |
| | | - I am willing to | | principle of Do Not |
| | | patiently wait for | | Over-claim, only those |
| | | a cup of coffee | | that questionnaires |
| | | | | were collected from |
| | | | | are calculated in the |
| | | | | outcome. |
| Improved family | Consumers come to | 1. Respondents that | During visits to the | Changes in behavior |
| or interpersonal | Milkfisherhome café to | selected at least two | café with family and | judged based on |
| relations | drink coffee →Learned | items in the | friends, whether to buy | objective indicators. |
| | | questionnaire: | things or experience an | Based on the SROI |
| | coffee brewing | questionnaire. | event, besides getting | principle of |

| Defined outcome | Verification of Outcome | Verification of | Stakeholder feedback | Reason for inclusion |
|-----------------|---|--|--|---|
| Defined outcome | Indicators | Outcome Indicators | Stakeholder recuback | in report/exclusion |
| Defined outcome | techniques, took photos, and engaged in exchanges with employees at Miklfisherhome café → Found people with the same interests or preferences→Expands social network→ | Outcome Indicators - Became acquainted with new friends - Higher frequency of conversations with friends and family members - Increased participation in social events or | to know new friends, it also increases the topics of conversation with family and friends (ecological aquaculture or coffee tasting). If a friend asks me out again, I am willing to visit the café to chat, improving | in report/exclusion materiality, the outcome was determined to be material and thus included. With consideration to the principle of Do Not Over-claim, only those that questionnaires were collected from are calculated in the |
| | social network→ Improved interpersonal relations | 1 1 | café to chat, improving interpersonal relations. | |

(VII) Event participant

For event participant, the most important outcome is "raise awareness of responsible consumption". According to Chin-Hua Chen&Yao-Cheng Tsai's research, moral philosophy and environmental awareness have strong positive correlation with green purchasing (Chin-Hua Chen&Yao-Cheng Tsai, 2012). It means that when consumers obtain more information, they can judge the added value of the product and then choose the one more suitable for their moral conscience. Therefore, the event participants understand the differences between ecological farming and traditional farming through food-fish education and thus they are willing to pay higher price for ecological farming products.

Table 13 Chain of events and summary of event participants

| Defined outcome | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|------------------|--------------------------|-----------------------|----------------------|-----------------------|
| Defined outcome | Chain of events | Outcome Indicators | Stakeholder recuback | in report/exclusion |
| Increased | Participated in food and | 1. Respondents that | 100% of stakeholders | Changes in thought |
| understanding of | fish education | selected at least two | responded that this | judged based on the |
| fishing village | courses→Gained a better | items in the | outcome occurred | questionnaire. Based |
| culture | understanding of fishing | questionnaire: | | on the SROI principle |
| | villages and new | questionnaire. | | of materiality, the |
| | knowledge of the | - Changed my | | outcome was |
| | industry→Became | stereotype of | | determined to be |
| | interested in learning | fishing villages | | material and thus |

| Defined outcome | Chain of avents | Verification of | Stakeholder feedback | Reason for inclusion |
|-----------------|--|---|----------------------|----------------------|
| Defined outcome | Chain of events | Outcome Indicators | | in report/exclusion |
| Defined outcome | about fishing village culture→Became more fond of fishing village culture→Increased understanding of fishing village culture | - I gained a better understanding of the lifestyle and customs of fishing villages - I better understand the habit of traditional fishing villages to go with nature and cherish things - I feel that fishing | Stakeholder feedback | |
| | | village culture is special and uniquely charming | | |

| Defined outcome | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|----------------------|---|--|---|--|
| Defined outcome | Chain of events | Outcome Indicators | Stakeholder recuback | in report/exclusion |
| Clarify career plans | Participated in food and fish education courses→Experienced the work and environment in the aquaculture industry through →participation in events organized by Bo-Ren Chang, learning about possible →opportunities and difficulties in advance→Considered whether the work is what I | - I feel that fishing village culture is an important part of Taiwan's traditional culture and we should try to preserve it 1. Respondents that selected at least two items in the questionnaire: - Became clearer whether or not he/she is interested in the aquaculture industry | 100% of stakeholders responded that this outcome occurred | Changes in thought judged based on the questionnaire. Based on the SROI principle of materiality, the outcome was determined to be material and thus included. With consideration to the principle of Do Not |

| Defined outcome | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|--------------------------------|--|---|--|---|
| Defined outcome | Chain of events | Outcome Indicators | Stakeholder recuback | in report/exclusion |
| | want, whether it matches my goals→Clarify career plans | Became more confident in work Gained greater passion for work Became more determined to enter the aquaculture industry after graduation Became more determined to establish a fish farm after graduation | | Over-claim, only those that questionnaires were collected from are calculated in the outcome. |
| Raise awareness of responsible | Participated in food and fish education courses→Gained a | 1. Respondents that selected at least two | 100% of stakeholders responded that this | Changes in thought judged based on the |
| | | | | |

| Defined outcome | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|------------------------|--------------------------------|--------------------|----------------------|-----------------------|
| Defined outcome | Chain of events | Outcome Indicators | Stakeholder reedback | in report/exclusion |
| consumption | better understanding of | items in the | outcome occurred | questionnaire. Based |
| | fishing culture and the | questionnaire: | | on the SROI principle |
| | connection between fisheries | - I care more | | of materiality, the |
| | and life→Gained a better | about the | | outcome was |
| | understanding of local | impact of each | | determined to be |
| | fisheries and knows to | purchase on the | | material and thus |
| | choose local fish species that | environment | | included. With |
| | are produced in abundance→ | and society | | consideration to the |
| | Knows which aquaculture | - I am willing to | | principle of Do Not |
| | method produces higher | choose eco- | | Over-claim, only |
| | quality aquatic products, and | friendly | | those that |
| | will support products from | products that | | questionnaires were |
| | eco-friendly aquaculture | are a little bit | | collected from are |
| | methods → Raise awareness | more expensive | | calculated in the |
| | of responsible consumption | - | | outcome. |
| | | - When I am | | |
| | | buying a | | |
| | | product, I am | | |

| Defined outcome | Chain of events | Verification of | Stakeholder feedback | Reason for inclusion |
|------------------------|-----------------|--------------------|----------------------|----------------------|
| Defined outcome | Chain of events | Outcome Indicators | Stakeholder reedback | in report/exclusion |
| | | more concerned | | |
| | | about how it | | |
| | | was produced | | |
| | | and where it | | |
| | | was produced | | |
| | | - I believe that | | |
| | | consumption | | |
| | | behavior can | | |
| | | slowly change | | |
| | | the industry, | | |
| | | and allow | | |
| | | producers to | | |
| | | gain reasonable | | |
| | | profits | | |

(VIII) SWCB

For SWCB, the most important outcome is "attract other young people to return to rural villages". To evidence this result, we search for relevant study.

According to Yu-Ting Chen 's study (2013),

The old aged agricultural structure has been a serious problem in Taiwan. According to the government statistics, the willingness of the family farm members aged below 45 to take over family farm business is very low. This evidence indicates the shorthand of new and young farm labors into the agriculture in the coming future. As a result, how to attract young generation into agriculture has been one of the important policy issues in Taiwan.

SWCB is a public sector unit devoted to rural regeneration and empowering young people. Because of this project, Mituo retained some local young people and brought some non-local young people here, which reasonably explain the biggest source of value of SWCB.

Table 14 Chain of events and summary of the SWCB

| Defined outcome | Chain of events | Verification of Outcome Indicators | Stakeholder feedback | Reason for inclusion in report/exclusion | |
|------------------------|------------------------|---------------------------------------|----------------------|--|--|
| Increased | Supports the Six-Level | 1. Subjective description | The SWCB supports | Stakeholders | |
| effectiveness in | Redevelopment Project | directly from | the Six-Level | provided feedback | |

| Defined outcome | Chain of events | Verification of Outcome | Stakeholder feedback | Reason for inclusion |
|------------------------|-------------------------|-----------------------------|--------------------------|-------------------------|
| Defined outcome | Chain of events | Indicators | | in report/exclusion |
| promoting policies | for Traditional Fishing | stakeholders: Principal | Redevelopment | that the efforts of Bo- |
| | Villages→Uses the Six- | investigator's name | Project for Traditional | Ren Chang led to |
| | Level Redevelopment | recognition increased for | Fishing Villages, and | higher name |
| | Project for Traditional | his efforts in the fishing | promotes Mituo, | recognition of the |
| | Fishing Villages as an | village, and it also | Kaohsiung, as an | SWCB and matches |
| | exemplary case of | increased the SWCB's | exemplary case of | objective indicators. |
| | revitalizing local | media exposure, adding | innovation in fisheries. | Based on the SROI |
| | industries→Accumulates | a successful example of | Accumulating success | principle of |
| | successful cases of | fishing village | stories in fishing | materiality, the |
| | revitalizing local | redevelopment and | village redevelopment | outcome was |
| | industries→Policy | creating a demonstration | has become a way for | determined to be |
| | demonstration and | site to promote SWCB | the SWCB to promote | material and thus |
| | promotion effects | policies. | and demonstrate its | included. |
| | | 2. Able to independently | policies. Thus this | |
| | | list or has at least two of | project serves to | |
| | | the objective changes | increase the | |
| | | , , , | effectiveness of policy | |
| | | below: | promotion. The efforts | |

| Defined outcome | Chain of events | Verification of Outcome | Stakeholder feedback | Reason for inclusion |
|--|--|--|--|--|
| Defined outcome | Chain of events | Indicators | Stakeholder recuback | in report/exclusion |
| | | The number of applications received by the SWCB from young applicants increased The SWCB's media exposure increased | of the youth in the fishing village were noticed by the media, increasing the SWCB's media exposure. | |
| Reduced fees for renting the youth entrepreneurship base | Supports the Six-Level Redevelopment Project for Traditional Fishing Villages→Becomes a placemaking base→The SWCB can directly borrow the site for introduction→There is no need to rent other venues→Reduced fees | Subjective description directly from stakeholders: The SWCB needs a placemaking demonstration site, and now it can directly use sites of principal | The SWCB organizes over 30 meetings, exchange events, and education and training courses around Taiwan every year for youth related projects. This originally took time and money to find suitable venues, but | Changes in behavior judged based on objective indicators. Based on the SROI principle of materiality, the outcome was determined to be material and thus included. |

| Defined outcome | Chain of events | Verification of Outcome | Stakeholder feedback | Reason for inclusion |
|------------------------|-------------------------|--|-------------------------|-----------------------|
| Defined outcome | Chain of events | Indicators | Stakeholder recuback | in report/exclusion |
| | for renting the youth | investigator in its | now with the sites | |
| | entrepreneurship base | introductions. | established by local | |
| | | 2. Able to independently | youth, organizing | |
| | | list or has at least two of | events and courses at | |
| | | | the sites can save time | |
| | | the objective changes | and money. | |
| | | below: | | |
| | | Not needing to rent venues reduces expenses Saved time and effort searching for suitable venues | | |
| Attract other young | Supports the Six-Level | The number of young | The SWCB supported | Attract other young |
| people to return to | Redevelopment Project | people who stayed in the | the Six-Level | people to return to |
| rural villages | for Traditional Fishing | fishing village due of this | Redevelopment | rural villages is the |

| Defined outcome | Chain of events Verification of Outcome Stakeholder feedb | | Stakeholder feedback | Reason for inclusion |
|-----------------|--|------------|-------------------------|----------------------|
| Defined outcome | Chain of events | Indicators | Stakeholder recuback | in report/exclusion |
| | Villages→Bo-Ren Chang | project. | Project for Traditional | ultimate goal of the |
| | began to recruit Fisher | | Fishing Villages and | SWCB. Based on the |
| | Team members | | learned about the | SROI principle of |
| | again→Fisher Team | | actual situation of | materiality, the |
| | members clarified career | | fishing village | outcome was |
| | plans and developed | | redevelopment through | determined to be |
| | employment | | principal investigator. | material and thus |
| | abilities→Fisher Team | | One of the most | included. |
| | members decided to enter | | important outcomes is | |
| | the aquaculture industry | | that 10 young people | |
| | in Mituo after | | decided to stay in | |
| | graduation→Attracted | | Mituo and devoted to | |
| | other young people to | | aquaculture industry. | |
| | return to the fishing | | | |
| | village | | | |

Briefly summarize the most important changes of various stakeholder groups. In general, principal investigator gain more income. Meanwhile, he tried to use this project to solve the social and industrial problems of his hometown, so he increase self-actualization a lot. The fisher team members get economic income because of this plan, find a career they

want to develop for a life time, and also improve aquaculture skills from training. As for employees of Milkfisherhome Café, they have a significant enhance in interpersonal relations and sense of accomplishment. The collaborating fish farms, who obtained young and professional labour, can increased aquaculture area and then increased income of fish farms. From the perspective of local fishermen's association, they made more young people willing to stay in the fishing village, which is crucial to its survival in the long-term. Consumers of Milkfisherhome Café, honestly, their value is not very high since they can find other good coffee shop easily. Finally, for SWCB, attracting other young people to return to rural villages is the main outcomes since SWCB's mission is to revitalizing traditional rural and fishing villages, which can only be achieved by young people's creativity and commitment.

II. Financial Proxies and Adjusting Factors

For financial proxies, we used the cost method and proxy analogical method to determine the value of outcomes. We then engaged stakeholders to verify the value of outcomes. Here, we used three methods to value the outcomes, which are value & cost method, proxy analogical method and willing to pay method. For the results that related to real currency like income or cost, we use value & cost method since there is already a mature accountant system in the world. Therefore, we just follow this exiting accountant rules. As for the results related to social values, likes increased confidence or interpersonal relationships, we use the proxy analogical method. The proxy analogical method is to find other buyable things on the market that can achieve the same results. Therefore, according to the life experience and growth background of different stakeholders, we asked him what the value of the results feel like and then listed different pricing options for the stakeholders. Finally, for the principal investigator, we considered that other two methods mentioned above cannot do a proper valuation since he actually doing a losing business and it cannot be explained by common sense. Therefore, we think that using willing to pay is closer to his psychological motivation.

The reason for selecting the value & cost method or proxy analogical method is because principal investigator and certain stakeholders stated that the two methods were closer to the life experiences of more stakeholders, so it was easier for them to imagine. Therefore, according to the life experience and growth background of different stakeholders, we asked him what the value of the results feel like and then listed different pricing options for the stakeholders Based on the experience of stakeholders and the principle of Do Not Over-claim, we decided to use the cost method or proxy analogical method. After engagement, we found that more than 60% stakeholders choose the same financial proxy. However, to avoid bias caused by specific stakeholders and also consider the other 40% of the opinions, we use the weighted average method to reflect the value of each outcome in stakeholders' minds

The adjusting factors are divided into four categories, described below:

Table 15 Adjusting Factor

| Adjusting Factor | Description | | |
|-------------------------|---|--|--|
| | This refers to the percent likelihood of changes and outcomes occurring | | |
| | regardless of the implementation of a project; in short, it is the chance of the | | |
| Deadweight | outcomes happening even if the project had not taken place. The deadweight for | | |
| | this project is based on the responses of the stakeholders in interviews and | | |
| | questionnaires, which are calculated as a weighted average. | | |
| | This refers to the proportion to which the outcome of the project only came about | | |
| | because problems were transferred to other places. There are no obvious issues | | |
| Displacement | of problem transference in this project; thus it is proposed that this factor be | | |
| | discussed in the sensitivity analysis and not included in the calculation of | | |
| | outcomes. | | |
| | This refers to the proportion of changes and outcomes brought about by this | | |
| | project that were the result of the contributions from other factors; in short, it is | | |
| Attribution | the chance that one cannot claim credit for the occurrence of the outcome. The | | |
| | attribution for this project is based on the responses of the stakeholders in | | |
| | interviews and questionnaires, which are calculated as a weighted average. | | |

| Adjusting Factor | Description | |
|-------------------------|--|--|
| | This refers to the rate at which the effects of the outcome diminish over time; in | |
| Dran off | short, it is the rate at which benefits of the outcome decrease year by year. The | |
| Drop-off | drop-off for this project is based on the responses of the stakeholders in | |
| | interviews and questionnaires, which are calculated as a weighted average. | |

II. Impact Factors in Relation to Stakeholders and Outcomes

We mainly designed influencing factors in the second phase of stakeholder engagement for outcome verification. We personally interviewed most stakeholders, and used a questionnaire for one-time stakeholders (consumers of Milkfisherhome Café and event participants) that were harder to reach to verify the ratio of influencing factors among different stakeholders.

Deadweight: The deadweight of outcomes in principal investigator and consumers of Milkfisherhome Café was relatively high because Bo-Ren Chang has been involved in the promotion of six-level industries of fishing villages for a long period of time, while it is likely for consumers to visit different places. Hence, the two stakeholders have relatively high deadweight. The SWCB has had many successful cases of subsidizing the youth to remain in rural villages, so the ratio of the increase in the effectiveness of policy promotion is relatively low, and deadweight is thus set at 90%. The deadweight of improved relationships between local residents and the fishermen's association is 0% because Bo-Ren Chang is currently the only young person willing to return to Mituo, Kaohsiung and help establish different channels to redevelop the fishing village's economy. He is also the only person working with the fishermen's association in establishing the first café there. It is hard for the general public to have the opportunity to establish a connection between the fishermen's

association and local community, so channels for obtaining information on fishing village redevelopment issues are relatively inaccessible. Therefore, this projectis unique to stakeholders.

Displacement: Stakeholders gave feedback that the results obtained from the project will not affect other outcomes or have any crowding out effect. Therefore, a judgement that there is no significant displacement factor in the project was made. In addition, SWCB, the main sponsor of the project, also explained that due to the uniqueness of the project, it will not cause crowding out effect on other proposals. However, considering principle of Do Not Over-claim, "Displacement" is included in sensitivity analysis.

Attribution: Employees of the Milkfisherhome Café stated that the principal investigator gives them an extremely high level of freedom, and that they could not obtain the same outcomes working elsewhere. The outcomes were mainly improved skills or personal traits, so the attribution is relatively low. Other stakeholders reported with certainty that, other than Bo-Ren Chang's project and events, there were few other opportunities that contributed to their outcomes in the same time period, so attribution was low, even 0%, for other stakeholders. Due to the large number of factors other than the fishermen's association that made more young people willing to stay in the fishing village, attribution was set at 90% after discussions with the director of the fishermen's association.

Drop-off: Most stakeholders reported that outcomes were mainly improved skills or personal traits, and the effect will not drop-off, even after a long period of time. Hence, the drop-off of outcomes is relatively low. The only outcome with high drop-off (90% or higher) was brief spiritual rest, which disappeared after relaxation time passed.

In summary, the principal investigator 's fishing village redevelopment plan was unique to most stakeholders and had a relatively deep impact. The proportion of influencing factors for various stakeholders is as follows:

 Table 16
 Summary of Influencing Factors in Each Outcome

| Stakeholder | Outcomes | Deadweight | Attribution | Drop-off |
|--------------------|--|------------|-------------|----------|
| Principal | Increase self-actualization | 75% | 50% | 10% |
| investigator | Improves the ability to communicate with children and young people | 25% | 25% | 10% |
| | Increased income | 75% | 50% | 0% |
| | Improves problem-solving ability | 25% | 50% | 10% |
| | Poorer family relations (negative) | 25% | 25% | 50% |
| | Poorer physical health (negative) | 25% | 25% | 70% |
| Fisher Team | Clarify career plans | 38% | 38% | 10% |
| | Increased income | 50% | 0% | 0% |
| | Improved interpersonal relations | 7% | 7% | 26% |
| | Improved self-identity and validation | 20% | 28% | 15% |
| | Improved professional skills in aquaculture | 30% | 40% | 4% |
| | Sense of achievement from successfully starting a business | 50% | 50% | 10% |
| | Caused fatigue (negative) | 50% | 0% | 0% |
| Collaborating fish | Increased income of fish farms | 25% | 25% | 0% |
| farms | Reduced production costs | 25% | 25% | 0% |

| Stakeholder | Outcomes | Deadweight | Attribution | Drop-off |
|-------------------|--|------------|-------------|----------|
| Employees of | Increased personal income | 90% | 0% | 0% |
| Milkfisherhome | Gain a sense of accomplishment | 25% | 0% | 20% |
| Café | Gain a brief spiritual rest | 50% | 50% | 100% |
| | Improve self-identity | 50% | 10% | 20% |
| | Improve communication skills | 50% | 10% | 20% |
| | Improved interpersonal relations | 30% | 10% | 20% |
| | Improved aesthetics | 20% | 10% | 10% |
| | Improved entrepreneurial abilities | 10% | 10% | 20% |
| Local fishermen's | Improved relationships between local residents | 00/ | 20% | 200/ |
| association | and the fishermen's association | 0% | 20% | 20% |
| | Increase connection between tourists and | 50% | 20% | 20% |
| | Mituo | 30% | 20% | 20% |
| | Made more young people willing to stay in the | 10% | 90% | 0% |
| | fishing village | 10% | 90% | U%0 |
| Consumers of | Brief spiritual rest | 80% | 50% | 90% |
| Milkfisherhome | Improved family or interpersonal relations | 900/ | 500/ | 500/ |
| Café | improved failing of interpersonal relations | 80% | 50% | 50% |
| Event participant | Increased understanding of fishing village | 20% | 10% | 10% |

| Stakeholder | Outcomes | Deadweight | Attribution | Drop-off |
|-------------|--|------------|-------------|----------|
| | culture | | | |
| | Clarify career plans | 50% | 20% | 20% |
| | Raise awareness of responsible consumption | 10% | 10% | 25% |
| SWCB | Increased effectiveness in promoting policies | 90% | 50% | 20% |
| | Reduced fees for renting the youth entrepreneurship base | 66% | 75% | 0% |
| | Revisions to policy directions | 25% | 75% | 0% |

Chapter 4 SROI Calculation

Section 1 Present Value of Outcome Impact

Table 17Table of Impact

| Stakeholo | der | | | | Valuation of outcome (NT\$) | | | Value of Ou | tcome | | |
|--------------|------------------------|--|----------------------|----------|--------------------------------------|-------------------|-----------------------|-------------|---------|--------|-----------|
| | Number | 0.4 | Percentage Change | | | Discount rate (%) | 1.047% ^[1] | | | | |
| Name | Name of People Engaged | Outcomes | Change | Duration | | Year 1 | | | | | |
| | | | | | | (post-activity) | Year 2 | Year 3 | Year 4 | Year 5 | Total |
| | | Increase self-actualization | 100% | 4 | 1,000,000 | 125,000 | 112,500 | 101,250 | 91,125 | 0 | 429,875 |
| | | Improves the ability to communicate with children and young people | 100% | 4 | 20,000 | 11,250 | 10,125 | 9,113 | 8,201 | 0 | 38,689 |
| Principal | 4 | Increased income | 100% | 1 | 4,179,843 | 522,480 | 0 | 0 | 0 | 0 | 522,480 |
| investigator | 1 | Improves problem-solving ability | 100% | 4 | 32,000 | 12,000 | 10,800 | 9,720 | 8,748 | 0 | 41,268 |
| | | Poorer family relations (negative) | 100% | 2 | (150,000) | (84,375) | (42,188) | 0 | 0 | 0 | (126,563) |
| | | Poorer physical health (negative) | 100% | 4 | (240,000) | (135,000) | (40,500) | (12,150) | (3,645) | 0 | (191,295) |
| Fisher Team | | Clarify career plans | 100% | 2 | 272,352 | 1,046,921 | 942,229 | 0 | 0 | 0 | 1,989,150 |
| | 10 | Increased income | 100% | 1 | 378,373 | 1,891,864 | 0 | 0 | 0 | 0 | 1,891,864 |
| | - | Improved interpersonal relations | 100% | 2 | 19,200 | 166,061 | 122,885 | 0 | 0 | 0 | 288,946 |

| Stakeholo | der | | | | | | | Value of Ou | tcome | | |
|----------------|--------------|--|----------------------|----------|----------------|---------------------|-----------------------|-------------|-----------|--------|-----------|
| | Number | Outcomes | Percentage Change | Duration | Valuation of | Discount rate (%) | 1.047% ^[1] | | | | |
| Name | of People | Outcomes | Change | Duration | outcome (NT\$) | Year 1 | | | | Year 5 | |
| | Engaged | | | | | (post- activity) | Year 2 | Year 3 | Year 4 | | Total |
| | | Improved self-identity and validation | 100% | 2 | 29,000 | 168,200 | 142,970 | 0 | 0 | 0 | 311,170 |
| | | Improved professional skills in aquaculture | 100% | 4 | 272,352 | 1,143,878 | 1,098,123 | 1,054,198 | 1,012,030 | 0 | 4,308,230 |
| | | Sense of achievement from successfully starting a business | 10% | 4 | 32,000 | 8,000 | 7,200 | 6,480 | 5,832 | 0 | 27,512 |
| | | Caused fatigue (negative) | 10% | 1 | (42,000) | (21,000) | 0 | 0 | 0 | 0 | (21,000) |
| Collaborating | 4 | Increased income of fish farms | 100% | 1 | 624,000 | 1,404,000 | 0 | 0 | 0 | 0 | 1,404,000 |
| fish farms | 4 | Reduced production costs | 100% | 1 | 308,435 | 693,978 | 0 | 0 | 0 | 0 | 693,978 |
| | | Increased personal income | 100% | 1 | 79,457 | 47,674 | 0 | 0 | 0 | 0 | 47,674 |
| | | Gain a sense of accomplishment | 100% | 1 | 50,000 | 225,000 | 0 | 0 | 0 | 0 | 225,000 |
| Employees of | | Gain a brief spiritual rest | 17% | 1 | 67,200 | 16,793 | 0 | 0 | 0 | 0 | 16,793 |
| Milkfisherhome | 6 | Improve self-identity | 100% | 2 | 4,800 | 12,960 | 10,368 | 0 | 0 | 0 | 23,328 |
| Café | | Improve communication skills | 100% | 2 | 4,500 | 12,150 | 9,720 | 0 | 0 | 0 | 21,870 |
| | | Improved interpersonal relations | 100% | 2 | 180,000 | 113,400 | 90,720 | 0 | 0 | 0 | 204,120 |
| | | Improved aesthetics | 17% | 4 | 100,000 | 71,971 | 64,774 | 58,297 | 52,467 | 0 | 247,509 |

| Stakeholo | der | | | | | Value of Outcome | | | | | |
|-------------------------------|--------------|--|----------------------|----------|-----------------------------|---------------------|-----------------------|--------|--------|--------|---------|
| | Number | Outcomes | Percentage Change | Duration | valuation of outcome (NT\$) | Discount rate (%) | 1.047% ^[1] | | | | |
| Name | of People | Outcomes | Change | Duration | | Year 1 | | | | Year 5 | |
| | Engaged | | | | | (post- activity) | Year 2 | Year 3 | Year 4 | | Total |
| | | Improved entrepreneurial abilities | 100% | 2 | 3,500 | 17,010 | 13,608 | 0 | 0 | 0 | 30,618 |
| | | Improved relationships between local residents and the fishermen's association | 100% | 1 | 300,000 | 240,000 | 0 | 0 | 0 | 0 | 240,000 |
| Local fishermen's association | 1 | Increased connection between tourists and Mituo | 100% | 1 | 200,000 | 80,000 | 0 | 0 | 0 | 0 | 80,000 |
| association | | Made more young people willing to stay in the fishing village | 100% | 1 | 800,000 | 72,000 | 0 | 0 | 0 | 0 | 72,000 |
| Consumers of | | Brief relaxation | 79% | 1 | 225 | 675 | 0 | 0 | 0 | 0 | 675 |
| Milkfisherhome Café | 38 | Improved interpersonal relations | 45% | 1 | 157 | 268 | 0 | 0 | 0 | 0 | 268 |
| F | | Increased understanding of fishing village culture | 100% | 2 | 1,245 | 12,550 | 11,295 | 0 | 0 | 0 | 23,844 |
| Event participant | 14 | Clarify career plans | 100% | 1 | 2,172 | 12,164 | 0 | 0 | 0 | 0 | 12,164 |
| participant | | Raise awareness of responsible consumption | 100% | 2 | 1,345 | 15,252 | 11,439 | 0 | 0 | 0 | 26,692 |
| SWCB | 1 | Policy demonstration and promotion effects | 100% | 3 | 2,672,500 | 133,625 | 106,900 | 85,520 | 0 | 0 | 326,045 |
| SWCD | 1 | Reduced fees for renting the youth entrepreneurship base | 100% | 3 | 1,000,000 | 85,000 | 85,000 | 85,000 | 0 | 0 | 255,000 |

| Stakeho | lder | | | | | | | Value of Ou | tcome | | |
|---------|--------------------------------------|--|------------|-------------------|-------------|-------------------|-----------------------|-------------|-----------|--------|------------|
| N | Number | | Percentage | rcentage Duration | | Discount rate (%) | 1.047% ^[1] | | | | |
| Name | of People | Outcomes | Change | Duration | outcome | Year 1 | | | | | |
| | Engaged | | | | (NT\$) | (post-activity) | Year 2 | Year 3 | Year 4 | Year 5 | Total |
| | | Attracted other young people to return to rural villages | 100% | 3 | 4,200,000 | 787,500 | 787,500 | 787,500 | 0 | 0 | 2,362,500 |
| | | Present value by year | | | | 8,816,938 | 3,482,170 | 2,117,711 | 1,126,821 | 0 | 15,543,641 |
| | | PV | | | | \$15,543,641 | | | | | |
| | | Total inputs | | | | | | \$8,125,0 | 20 | | |
| | Net present value (PV - total input) | | | | \$7,418,621 | | | | | | |
| | | Social return on investment (| SROI) | | | 1.91 | | | | | |

^[1] The discount rate used in this report is the three-year fixed interest rate for deposits offered by Chunghwa Post, as of January 2018.

Section 2 Sensitivity Analysis

Since the calculation of SROI takes qualitative and narrative information, which is not quantified, and assigns monetary value to it, there is a great deal of assumption and estimation involved. The SROI standards require that each analysis report include a sensitivity analysis and disclose relevant information, to ensure that the results are objective and verifiable.

The questionnaire response rate of event participants and consumers of Milkfisherhome Café was extremely low (3.5% and 1.3%, respectively). This report only uses the questionnaires that were collected in calculations, which may cause the value of outcomes to be underestimated. Hence, we attempt to calculate the SROI rate based on projections of all event participants and consumers of Milkfisherhome Café. In addition, we add 10% to or subtract 10% from the original result of the SROI calculation, and adjust the four factors to 10% and 30% if they originally fell below 10% for any of the outcomes.

After confirming the changes of the stakeholders through the subjective and objective judgment methods in the chain of event, we continued to have in-depth discussions with the stakeholders on the probability of the outcome and the depth of changes and inquire whether they have similar experience. If they say Yes, we can ask them how long the last change can last. After that, we ask stakeholders to use a reasonable scale to analyze the low, middle, and high possibility of occurring the same changes giving without this project. We then using professional judgement to convert their answer into possibility. For example: high possibility is between 75% to 100%, medium is between 40% to 70%, and low is between 0 to 35%. However, Milkfisherhome coffee consumers and event participants used questionnaires to inquire outcomes, so they directly calculated the weighted average of the questionnaires results.

Even we have made a lot of efforts to explain influencing factors to our stakeholders during the interview, according

to our experience, it is still difficult for them to fully understand. To solve this problem, we adjusted the influencing factors which is obviously low to 10% and 30% respectively in the sensitivity analysis to test the results.

For project investigator, we think that he would have a great chance to give back to his hometown and achieve the same results even without this plan. Therefore, we adjust the deadweight to higher percentage. Besides, even project investigator said that some outcomes are very intense and can remain for a long time, to avoid over-claim, we also adjust the drop-off to a higher percentage

In addition, since the biggest outcome in this project is "improve professional skills in aquaculture" for fisher team, we use the other financial proxy (Average annual salary of interns) as financial proxy. The reason is that intern may have the similar effects on improving professional aquaculture skills.

Finally, like we mentioned before, the influencing factors of this study rely heavily on the feedback from stakeholders. According to our experience, even if we explained the meaning of the four influencing factors to stakeholders during the interview, it is still difficult for them to fully understand. Therefore, we adjusted the influencing factors which is obviously low to 10% and 30% respectively in the sensitivity analysis to test the results.

To sum up, we determined the range of the SROI sensitivity analysis for this project to be between 1.34 and 2.13.

Table 18 Calculations for SROI adjustment

| Adjustment | Details | SROI |
|-------------------|-----------------------|------|
| Social return on | Ingranged by 100/ | 2.10 |
| investment (SROI) | Increased by 10% | 2.10 |
| Social return on | Decreased by 100/ | 1.72 |
| investment (SROI) | Decreased by 10% | 1.72 |
| Deadweight | < 10% adjusted to 10% | 1.91 |

| Deadweight | < 10% adjusted to 30% | 1.90 |
|------------------------|--|------|
| Attribution | < 10% adjusted to 10% | 1.89 |
| Attribution | Attribution < 10% adjusted to 30% | |
| Drop-off | < 10% adjusted to 10% | 1.84 |
| Drop-off | < 10% adjusted to 30% | 1.66 |
| Displacement | 0% adjusted to 10% | 1.72 |
| Displacement | 0% adjusted to 30% | 1.34 |
| Number of stakeholders | Stakeholders are extrapolated to their total statistical population (Event participants and consumers of Milkfisherhome Café) | 2.13 |
| Deadweight | The outcome of project investigator (Bo-Ren Chang) < 50% adjusted to 50% | 1.92 |
| Drop-off | The Project investigator (Bo-Ren Chang) < 30% adjusted to 30% | 1.90 |
| Financial proxy | Use one-year intern as the financial proxy of fisher team's most important outcome "improve professional skills in aquaculture". | 1.91 |

Chapter 5 Conclusion and Recommendations

I. Improve Stakeholder Contact

Event participant: In the process of tracking stakeholders, food and fish education events are mostly one-time events and participants come from different schools or areas, so they could not be tracked. Hence, we could not accurately measure their impact of outcomes and benefits among stakeholders. We recommend that the project implementer compile a list of participants, select fixed schools to work with to make food and fish education more in-depth, and systematically organize food and fish education related events and seminars for the long term. We also recommend adjusting the contents and design of events based on feedback from participants. Through a preliminary sign-up form asking participants why they want to attend the events and a dedicated participant group, the project implementer can continue to keep in touch with event participants.

Members of the Responsible Production Cooperative and restaurants/food processing companies: Cooperation began in early 2019 and current sales revenue is not high, so there are not any significant outcomes as of yet. We recommend establishing a complete database on related sales channels and companies, testing market reaction and collecting feedback from companies, which will benefit subsequent promotion of ecological aquaculture.

Principal investigator organized Fisher Team training and made efforts to develop different industries to realize his ideal, but members of executive team are only Bo-Ren Chang and his family. When his family has a negative reaction and cannot contribute, it will result in a highly negative outcome. We recommend that he search for partners with the same ideals to quickly complete targets and save time.

II. Verify if cost inputs are sustainable

The Six-Level Redevelopment Project for Traditional Fishing Villages is mainly funded by the SWCB and Mr. Bo-Ren Chang. However, the SWCB only provides a one-time subsidy that will end after 2019. Bo-Ren Chang, the principal investigator, should verify whether he still has sufficient funding for Fisher Team training and food and fish education promotion work without government subsidies.

III. Total Outcome Benefit Analysis

- (I) Stakeholder Analysis
 - 1. Principal investigator: From Bo-Ren Chang's perspective, the most significant outcome is increased income and self-actualization. The purpose of this project is to train the younger generation to go into old industries and communities. From Bo-Ren Chang's perspective, the outcome also verifies that he achieved self-actualization.
 - 2. Fisher Team member: After training and internship, Fisher Team members had the most significant outcomes among stakeholders, in which the most significant outcomes were improved professional skills in aquaculture and increased income. Since Fisher Team members are mainly students and the underprivileged, the professional skills and income from the internship became the basis for paying daily living expenses.
 - 3. Collaborating fish farms: The project is currently working with four fish farms, and the main outcome is reduced labor costs and increased income. Since Fisher Team members have related knowledge and have received practical training, they can be high quality, young workers for fish farms, and indirectly resolve the age gap issue in the industry, creating a new impact on the industry.
 - 4. Employees of Milkfisherhome Café: Milkfisherhome Café has six employees, five of which are locals and one from a nearby township. The main outcomes are improved skills and personal traits. Even though the benefits

account for a relatively even percentage of all outcomes, there is not much drop-off in the outcomes, which will give stakeholders a different life experience, and indirectly make locals more willing to stay and work in their hometown.

- 5. Local fishermen's association: The fishermen's association is a local government agency. Its main outcomes are increased connections with other places, opportunities for the youth to return to their hometown, allowing the local economy to continue to operate, and increased profitability. The fishermen's association began investing in numerous large infrastructure projects in 2019, hoping to guide the youth into different industries in Mituo through the efforts of the principal investigator, and creating opportunities to change the fishing village.
- 6. Consumers of Milkfisherhome Café: Most consumers are one-time consumers, and outcomes are brief spiritual rest and improved relationships with family and friends. We recommend that principal investigator strengthen the connection with consumers and gather information on their consumption habits, preferences, and communities, using connections to communicate the purpose of local industries.
- 7. Event participant: The events are mainly food and fish education and fish farm experience events, and outcomes include better understanding of fishing village culture, clearer career plans, and raised awareness of responsible consumption. However, most events are one-time events and outcomes are not as significant. We recommend that the principal investigator build strong connections with event participants, gather information on participants' favorite types of events, preferences, and communities, using connections to communicate the values of ecological aquaculture.
- 8. SWCB: Principal investigator implementing the plan in Mituo, Kaohsiung to develop the local fishing village community provides the SWCB with an exemplary case of innovation in rural villages for others to use as

reference. It also provides the benefit of promoting the rural village innovation policy. The SWCB also takes into consideration the importance of social impact, and used social impact as the main evaluation standard for application forms and review standards for youth investment projects in rural villages in 2019. The SWCB hopes that sharing successful examples and methods of thinking when it comes to social impact will help more young people find the right way to resolve issues in rural villages.

The benefits to the various stakeholders are as follows:

Table 19 Proportion of Outcome Benefits Enjoyed by Each Stakeholder Group

| Stakeholder | Total outcomes | Outcome |
|-------------------------------------|----------------|------------|
| | (undiscounted) | Percentage |
| Principal investigator | 714,455 | 4.51% |
| Fisher Team | 8,795,872 | 55.58% |
| Collaborating fish farms | 2,097,978 | 13.26% |
| Employees of Milkfisherhome Café | 816,912 | 5.18% |
| Local fishermen's association | 392,000 | 2.48% |
| Consumers of Milkfisherhome Café | 944 | 0.01% |
| Event participant | 62,700 | 0.40% |

| Stakeholder | Total outcomes | Outcome |
|-------------|----------------|------------|
| | (undiscounted) | Percentage |
| SWCB | 2,943,545 | 18.60% |
| Total | 15,824,406 | 100% |

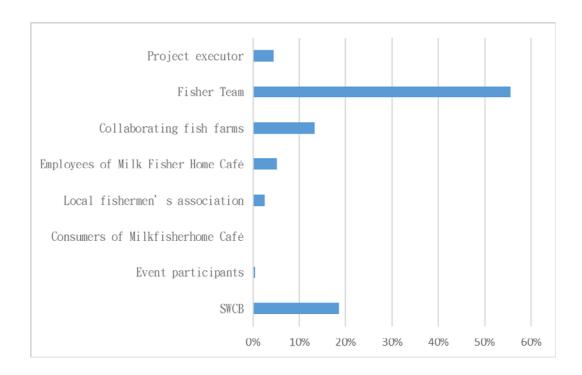


Figure 3Proportion of Benefits Enjoyed by Each Stakeholder Group

(II) Analysis of economic and social benefits

We further examined the outcomes of each type of stakeholder, and used the types of outcomes as the basis of analysis, examining the social and economic benefits and their percentage. Calculation results show that project outcomes in economic aspects is 30%, and other 70% is in social aspects. It reveals that the social impact of Six-Level Redevelopment Project for Traditional Fishing Villages mainly demonstrates in "aquaculture personnel training", which further promotes industry chain of aquaculture and establishes a new "business model." Detailed information is provided below:

Table 20 Breakdown of benefits by aspect

| | | Econo | omy | Society | | |
|--------------|--|-------------------|------------|----------------|------------|--|
| Stakeholder | Outcomes | Outcome amount | Percentage | Outcome amount | Percentage | |
| | Increase self-actualization | | | 429,875 | 2.72% | |
| Dain sin al | Improves the ability to communicate with children and young people | | | 38,689 | 0.24% | |
| Principal | Increased income | 522,480 | 3.30% | | | |
| investigator | Improves problem-solving ability | | | 41,268 | 0.26% | |
| | Poorer family relations (negative) | | | -126,563 | -0.80% | |
| | Poorer physical health (negative) | | | -191,295 | -1.21% | |
| | Clarify career plans | | | 1,989,150 | 12.57% | |
| Fisher Team | Increased income | 1,891,864 | 11.96% | | | |
| | Improved interpersonal relations | | | 288,946 | 1.83% | |

| | Improved self-identity and validation | | | 311,170 | 1.97% |
|-----------------------------|--|-----------|-------|-----------|--------|
| | Improved professional skills in aquaculture | | | 4,308,230 | 27.23% |
| | Sense of achievement from successfully starting a business | | | 27,512 | 0.17% |
| | Caused fatigue (negative) | | | -21,000 | -0.13% |
| Collaborating | Increased personal income | 1,404,000 | 8.87% | | |
| fish farms | Reduced production costs | 693,978 | 4.39% | | |
| | Increased personal income | 47,674 | 0.30% | | |
| | Gain a sense of accomplishment | | | 225,000 | 1.42% |
| E 1 | Gain a brief spiritual rest | | | 16,793 | 0.11% |
| Employees of Milkfisherhome | Improve self-identity | | | 23,328 | 0.15% |
| Café | Improve communication skills | | | 21,870 | 0.14% |
| Cale | Improved interpersonal relations | | | 204,120 | 1.29% |
| | Improved aesthetics | | | 247,509 | 1.56% |
| | Improved entrepreneurial abilities | | | 30,618 | 0.19% |
| T 1 | Improved relationships between local residents and the fishermen's association | | | 240,000 | 1.52% |
| Local fishermen's | Increased connection between tourists and Mituo | | | 80,000 | 0.51% |
| association | Made more young people willing to stay in the fishing village | | | 72,000 | 0.45% |
| | Brief relaxation | | | 675 | 0.00% |

| Consumers of | | | | | |
|------------------|--|-----------|--------|------------|--------|
| Milkfisherhome | Improved interpersonal relations | | | 268 | 0.00% |
| Café | | | | | |
| 1 1 | Increased understanding of fishing village culture | | | 23,844 | 0.15% |
| | Clarify career plans | | | 12,164 | 0.08% |
| | Raise awareness of responsible consumption | | | 26,692 | 0.17% |
| | Policy demonstration and promotion effects | | | 326,045 | 2.06% |
| | Reduced fees for renting the youth entrepreneurship base | 255,000 | 1.61% | | |
| | Attracted other young people to return to rural villages | | | 2,362,500 | 14.93% |
| Total/Percentage | | 8,274,301 | 30.43% | 11,009,403 | 69.57% |

Overall, the implementation of this project is closely aligned with its goals, which is supported by evaluation results. The principal investigator, Bo-Ren Chang, has high control over project implementation, and most information is fully documented. However, there is relatively little information on the outcomes of food and fish education event participants and consumers. We recommend maintaining long-term observation records to test market reaction, and benefit the implementation of fishing village six-level industry activities.

Project investigator fulfilled his commitment to his hometown, and prioritizes local talent training and new business models, completing the social network of locals while creating new momentum for social innovation. We hope that the principal investigator will reexamine the changes brought by the events through this social impact assessment, and continue

to direct his efforts to the most valuable parts, while making improvements to the parts that are the furthest away from expectations. This will make the promotion of six-level industries smoother, and allow more locals to identify with their hometown, so that they will return to work together for their hometown.



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Appendix 1 Stakeholder Engagement Interview Outline and Questionnaire

➤ Interview Outline

- 1. When did you first come in contact with Bo-Ren Chang? What was the occasion?
- 2. Why did you want to join the organization or participate in the event organized by Bo-Ren Chang?
- 3. Since joining the organization or participating in the event organized by Bo-Ren Chang, have you personally experienced any changes or influences (such as in your thoughts, behaviors, moods, or attitudes toward life in general) or in the people and things around you (such as your friends, family, and communities)? Examples: Increased income, increased confidence, improved interpersonal relations, etc.
- 4. Which of the above changes do you think are more important?
- 5. How long have these changes lasted? Or how long do you think these changes will last?
- 6. If you hadn't joined the organization or participated in the event organized by Bo-Ren Chang, do you think the chances are high of the aforementioned changes happening?
- 7. Have there been any negative influences or emotions since joining the organization or participating in the events organized by Bo-Ren Chang?
- 8. Do you have any other thoughts or suggestions regarding the organization or the events organized by Bo-Ren Chang?

Questionnaire

| Taking the outcome of "improved understanding of fishing village culture" as an example, we inquired about each outcome using the following logic | | | | |
|---|--|--|--|--|
| Basic | 1. What is your current identity? | | | |
| information | Student Teacher Other | | | |
| Outcome | 2. After experiencing the event, did you become more interested in and gain a better understanding of fishing village culture? | | | |
| Validation | | | | |

| | | ☐Yes ☐No ☐Other_ | | | | | | | | | | | |
|---------------|---|--------------------------|---------------------------------|---------------------------------|---|--|--|--|--|--|--|--|--|
| Outcome | 3. | What changes did thi | s event bring to your "und | erstanding of fishing villag | ge culture"? (Choose one or more answers) | | | | | | | | |
| Indicators | | ☐My impression of fis | thing villages became worse | and I do not want to visit aga | in | | | | | | | | |
| | Changed my stereotype of fishing villages | | | | | | | | | | | | |
| | | ☐I gained a better und | erstanding of the lifestyle an | d customs of fishing villages | | | | | | | | | |
| | | ☐I better understand th | ne habit of traditional fishing | villages to go with nature an | d cherish things | | | | | | | | |
| | ☐I feel that fishing village culture is special and uniquely charming | | | | | | | | | | | | |
| | | ☐I feel that fishing vil | lage culture is an important p | part of Taiwan's traditional cu | lture and we should try to preserve it | | | | | | | | |
| | | Others | | | | | | | | | | | |
| Importance of | Οι | itcomes | Ranking by importance | Price willing to pay | | | | | | | | | |
| changes and | Be | etter understanding of | | | | | | | | | | | |
| price willing | fis | hing village culture | | | | | | | | | | | |
| to pay | Cla | arify career plans | | | | | | | | | | | |
| | Ra | ise awareness of | | | | | | | | | | | |
| | res | sponsible consumption | | | | | | | | | | | |
| | Ot | hers | | | | | | | | | | | |

| Duration | 4. | How long do you think the effects of "better understanding of fishing village culture" from the food and |
|----------------|----|--|
| | | fish education event will last? |
| Drop-off | 5. | If the change can last for more than one year, will the degree of this effect decrease year by year? |
| Deadweight | 6. | If you had not participated in the food and fish education event of Bo-Ren Chang, how likely do you think that you would have had the opportunity to experience the same level of change through other channels or means? |
| Attribution | 7. | Besides participating in the food and fish education event, were there other channels or methods that also helped you gain the change of "better understanding of fishing village culture"? What is the degree of contribution of Bo-Ren Chang's food and fish education event to this change? |
| Other outcomes | 8. | Have you experienced any changes or impact not mentioned above? Please specify |

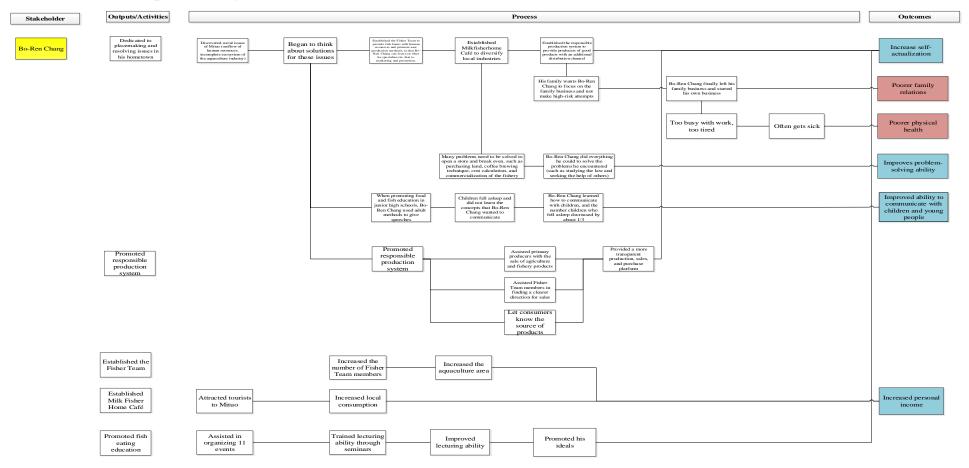
Appendix 2 Stakeholder Inputs

| Stakeho | ldon | Inp | uts | Description | Source | | | |
|--|------|--------------|-----------|--|---|--|--|--|
| Stakeno | ider | Items Amount | | Description | Source | | | |
| Principal investigator | N/A | Funds | 2,586,792 | Make significant investment in the purchase of equipment, land, and salaries during the training of Fisher Team members | Interview results | | | |
| Fisher Team member | N/A | Time | 0 | Cost of time invested in the Fisher Team | Provided by the RunAway team | | | |
| Collaborating fish farms | N/A | Funds/Site | 3,117,759 | Collaborating fish farms need to pay the salaries of Fisher Team members | The principal investigator summarized the salaries paid by collaborating fish farms | | | |
| Employees of Milkfisherhome Café | N/A | Time | 0 | Cost of time invested by employees of Milkfisherhome Café | Provided by the principal investigator | | | |
| Local fishermen's association | N/A | Funds/Site | 400,000 | Fees for preparing the site before it was used for Milkfisherhome Café No. 2 | Provided by the director of Mituo Fishermen's Association | | | |
| Consumers of Milkfisherhome Café | N/A | Funds/Time | 9,719 | Consumption amount in the store | Questionnaire results | | | |

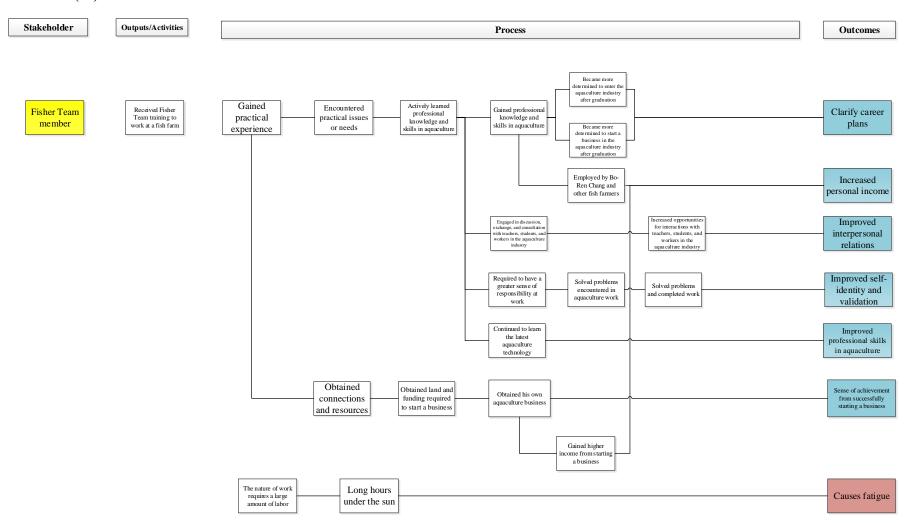
| Event participant | Aquaculture department students | Funds/Time | 10,750 | Expenses participating in events | Provided by the principal investigator |
|-------------------|---------------------------------|-----------------|-----------|--|---|
| SWCB | N/A | Funds | 2,000,000 | The SWCB subsidized the principal investigator for 2.5 years | Subsidy amount approved by the SWCB project |
| - | | Total Inputs | 8,125,020 | - | - |

Appendix 3 Chain of events

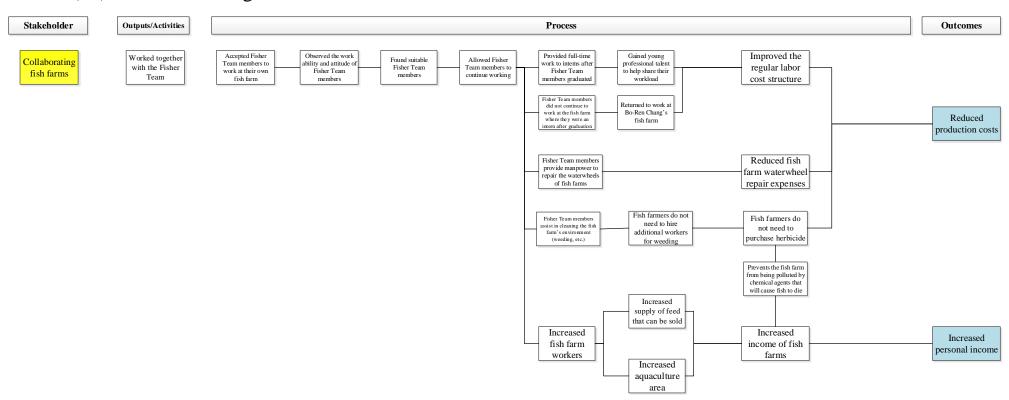
(I) Principal investigator



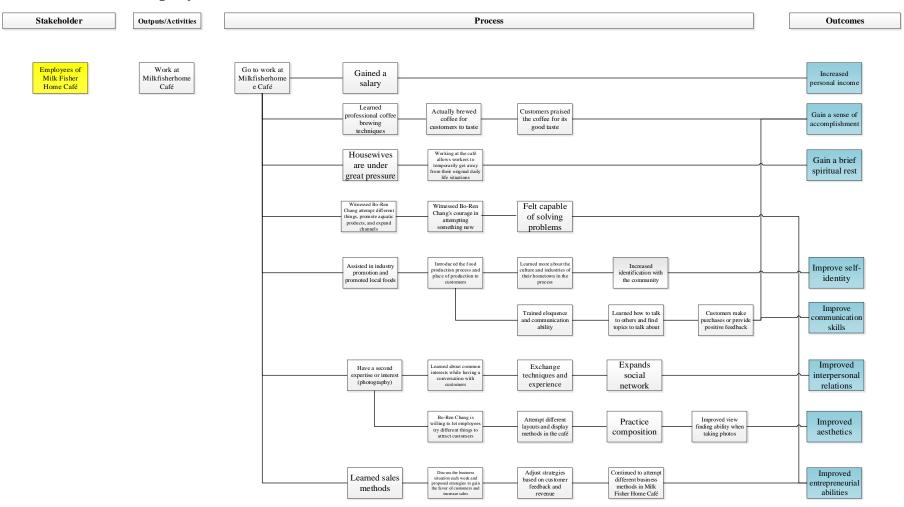
(II) Fisher Team member



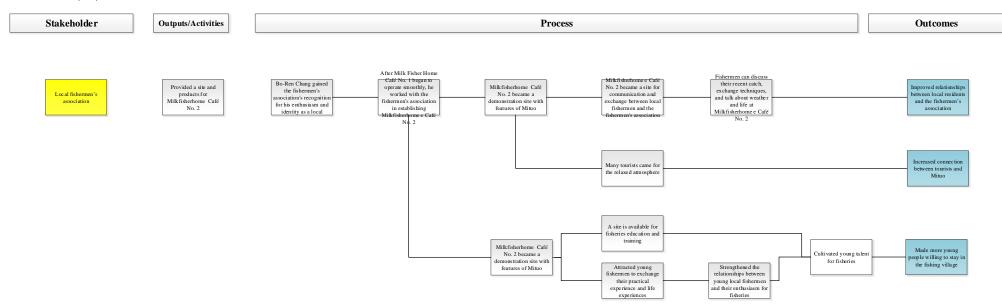
(III) Collaborating fish farms



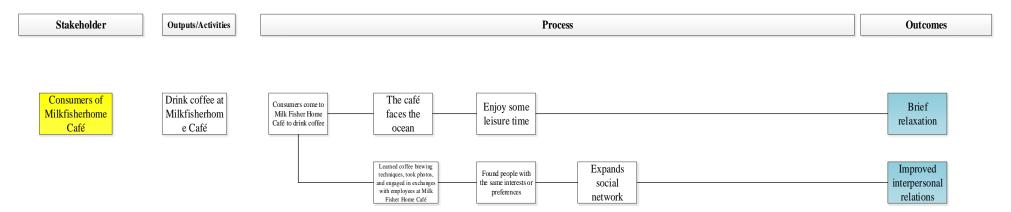
(IV) Employees of Milkfisherhome Café



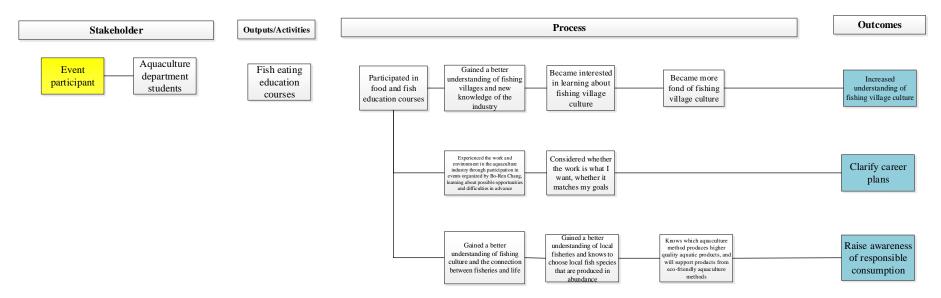
(V) Local fishermen's association



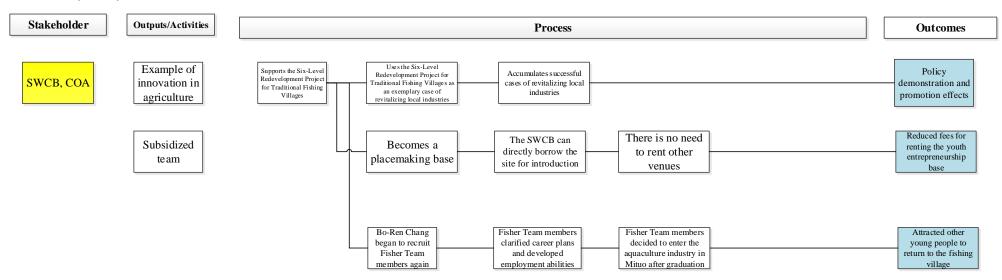
(VI) Consumers of Milkfisherhome Café



(VII) Event participant



(VIII) SWCB



Appendix 4 Impact Map

| The content of the | eet for developing SR | Ol analysi | | for further details. | | | · | | | | The state of the s | | | | | | | | | The state of the s | | | | | _ |
|--|--|---|--------------------|--|------------------|---|--|--|----------------------------------|--------------------------------|--|-----------------------|--|----------------------------|----------------------------------|--|--|---|--|--|-------------|------------|---------------------------|-----------|--------|
| The state The | Deadweight % Attribution %.1 Deep off % effects Influence Canada Chin Guide Control Outcome (What change occurred) would occur cannot chin diminish diminish (C). Calculating occial return on investment (SROI) | | | | | | | | | | | | | | - | | | | | | | | | | |
| Part | | | | | | | Outs of Books | Deconistion | Infortor | S | Ownstit | | Duration | Financial serve | Proportion of Discount rate 1975 | | | | | | | | 1 | | _ |
| The column | project | Total Sumber of People Engaged | stakeholders | Input value (NTS | Source | | How would the stakeholder | How do stakeholders describe | How are outcomes measured and | How is data obtained and by | Sample | No. of stcomes (#) | How long did outcomes last after the project | What financial proxy is | Value of Outcome | How is data obtained and by | changes that wou have still occurred if the activity was | ld were the result I of the contributions | outcomes brought by the activity that | | | | Year 3 | Year 4 | Year 5 |
| Company Comp | | | Donde | 759670 | recunsic nor | Occasion 16 areas | Desicates to pacettaking and resowing | Insurance cell' autoritation | Subjective description | Interview | 1000 | | nas conciuded: | Walso to individual | 1 000 000 | Peculius & Bolli Shakeloaler | _ | factors | 106 | 125,000,00 | 125 000 | 117 500 | 101.250 | 91.125 | 0 |
| The color of the | | | | 2,007 | | Organized 4 food and fish | | improves me army to communic are | f. subjective description | | | 1 | - 2 | | | recorder nom stakenouser | | | | | | | | | - 0 |
| Part | t executor | | | | | education speeches in elementary | 1. Established the Fisher Team - Increased the | Increased personal income | Subjective description | | | 1 | | Actual income increase | | redurack none stakeholder | | | | | | | 0 | 0 | 0 |
| The column 1 | - | | | | | schools and junior right schools | The residence of the same of t | Improves problem-solving ability | f substance art shoulder | | | 1 | 4 | | 32,000 | na sha Naha - Arab - Arab | | | | | | 10,800 | | 8,748 | 0 |
| 1 | - | | _ | _ | _ | | the control social issues the same (outrood the | Poorer family relations (negative) | f. analysture as helpfole | | | - 1 | | | (150,000) | CONTRACTOR PROPERTY | | | | (84375.00) | (84375.00) | (42187.50) | 0.00 | 0.00 | |
| The column The | | | | | + | | | г оолы риумсы пенин (педагле) | <u> </u> | and VEW | 20% | - | · · | Constitution money | (240,000) | | | 38% | | (13900000) | (133000.00) | (40000.00) | (12130.00) | (3043.00) | 0.0 |
| The control of the | eam member | 10 | Time | 1 | 0 | * ASSESSED / INCIDENT HERE WELL | ACCURED 1 BIRLI TERM GRANDE SO WORK IN 2 100 | Clarify currer plans | г. эпоресите испетрион | Interview | 100% | 10 | | Attenge annua sami) or | 272.352 | Mary Secretary IIII contractor services | | 38% | | 1.046.921.09 | 1.046.921 | 942.225 | 0 | 0 | - |
| Asia and analysis in the second process of | | | | | | aging workers to activate 31 ha of | 1. Received Fisher Team training to work at a | Increased personal income | 1. Subjective description | | | 10 | | Actual income gained | | Feedback from stakeholder | 50% | 0% | 0% | 1,891,863.50 | 1,891,864 | | 0 | ó | |
| The control of the | | | | | | | | | i. Subjective description | | | 10 | - | Mente Gamerings with | | https://www.tr.bs.com/pride/SHBBI | | | | | | | | 0 | |
| A compared Compare | - | | | | 1 | | feece of the resident of work at a re- | Improved self-identity and validation | to your so independently | | | 10 | | Confidence courses | | and the last | | | | | | | | 0 | |
| Company Comp | - | | - | - | _ | area | Accessed a solar resimbating or work at a new | Trines de acuseronam nom successions | to resid to independently | | 100% | 10 | 1 | Date Can Ripe Colarie | | id between it Debug is 4500 | | | | | | | | | |
| Part | ۲ | | | | _ | Assisted I overseas aquaculture | The malife of white requires a same amount or | Correct Origina (equation)) | 1. sunjecture uesempuoli | | 10% | | | Consolution money | | reducine doin Washington | | | | | (21000 | 7,200 | 0,400 | 3,832 | |
| The column | | | | | _ | as body or transfer and investment | | Cance range (regards) | | MINICAL TRACTO | 10.0 | | | Constant many | (42,000) | | | | | (21,000) | (21000) | , | , i | , | |
| Fig. | sh farms | 4 | 4 Funds | 311775 | 69 recorder nor | Increased 6 ha of aquaculture area | Worked together with the Fisher Team - | Increased income of fish farms | 1. Note to interpretating | Interview | 100% | 4 | | Actual income increase | 624,000 | COURSE BOIL MAKEBORICA | 25% | 25% | 0% | 1,404,000.00 | 1,404,000 | | 0 | 0 | _ |
| # The Proposed Company of Agriculture Company | | | | | | | Worked together with the Fisher Team → | Reduced production costs | 1. Note to macpendamy | Interview | 100% | 4 | | Actual labor costs reduced | 308,435 | r contack none reactioned | 25% | 25% | 0% | 693,978.38 | 693,978 | | 0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| and and disciplination model of the control of the | L | - 6 | 6 Time | | 0 | | | | C subjective are shown | | | - 6 | | Actual income increase | | r contack noisi makinoaid | | | | | | | 0 | 0 | |
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| Column Association Column Colum | | | | - | _ | and case operation model Completed I colorate the training | Go to work at Mikfisherhome Café→ | Gain a brief spiritual rest | 1: varê to independencij | | | - 1 | | | | http://www.lablace.com/A-to/%-BM/60 | | | | | | | 0 | 0 | |
| Control Additional Control Florage Service 100 1 | | | | | | course | Go to work at Mile Schadown Collins Assisted | Improve sea-mentaly | i. sunjective aesemption | | | - 6 | | rees for courses on | | A STATE OF THE STA | | | | | | | 0 | 0 | _ |
| | - | | | | | | | | f. subjective description | | 100% | 6 | | rreasing neighbods to mean | | https://www.to.bs.com.turkide.1000066 | | | | | | | 0 | 0 | _ |
| 1 1 1 1 2 2 2 2 2 2 | F | | | | | | | | f. subjective description | | 17% | - 1 | - 4 | Price willing to pay | 100,000 | NIC TO LINE | 20% | | | 71,971 | 71,971 | 64,774 | 58,297 | 52,467 | _ |
| Section Control of | | | | | | | 1. Go to work at Mikfisherhome Café** | Improved entrepreneurial abilities | 7. Subjecture devenpoon | Interview | 100% | 6 | | nocur cinicproted stap | 3,500 | CONTRACTOR | | | | 17,010 | 17,010 | 13,608 | 0 | 0 | _ |
| A Column | | | | | | | | | | | | | | | | | | | | | | | | | |
| | L | - 1 | 1 Sinc preparation | 40000 | 10 CEUTIAL E IIO | | DOWN CHAIR SANCE IN TRACTION | improves reasonably retrices acid | 1. Subjective description | | | - 1 | | Community empowerment | | | | | | | | | 0 | 0 | |
| | iation | | | | _ | | powers ching panels me tablements | * max more young people straing to stary | f. subjective description | | | - 1 | | Officialism substant cacin | | COUNTRY WORLD PLANTED IN | | | | | | | 0 | 0 | |
| All Andrew Text Decision Company Com | | | _ | | _ | One product sales location | | + | | Interview | 100% | | _ | | 800,000 | | | | | 72,000.00 | 72,000 | | 0 | 0 | |
| Call | | 20 | Money Time | 971 | O Constituencies | Concurrent of Mill: Either Home | | Brief califord sact | r. Kesponienis mii | Opertionsein | 700 | 20 | | Average consumption | 225 | Operformin | | | | 475.45 | 675 | | | 0 | |
| Part 1900 | | | | | | Café: 3,008 people | Codsumers confe to studismentone case to | | r. 'Kespondents una | | 45% | 17 | | Average consumption | | | | | | 268.47 | 268 | | 0 | 0 | |
| Company Principal and a second 27 (a) Principal and a se | | | | | | | | | | | | | | | | | 80% | 50% | 70% | | | | | | |
| Part | | 14 | Kegistraton tee, | 1075 | 0 Questiomaire | Participated in a total of 22 food | Panicipaled in tool and tish education course | s increased understanding of fishing | 1. Respondents that | Questionnaire | | 14 | | | | | | | | | | 11,295 | 0 | 0 | |
| Park | icipant | | | | | and fish education events | | Clarify career plans | 1. Respondent time | | | 14 | | | | | | | | | | | 0 | 0 | |
| Plank 200000 Annual of Out demonstrative Entering Plank 200000 Annual of Out demonstrative Out dem | _ | | _ | _ | _ | | | | | Questionnaire | 100% | 14 | , | Price witing to pay | 1,345 | Questionnare | | | | 15,252.30 | 15,252.30 | 11,439.23 | 0.00 | 0.00 | 0.0 |
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| Tailal | | | | | | | | | | | | | | | | | 60% | 67% | 7% | | | | | | |
| Present value by vear | | | | | | | | | | | | 0 | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.0 |
| | | | | 8,125,020.0 | 0 | | | | | | | | | | | | | | Present va | lue by year alue (PV) | • | | 2,117,711 \$15,543,641 | | 0.00 |

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