



## Coastal Resources for Sustainable Development Project (P118979)

EAST ASIA AND PACIFIC | Vietnam | Environment & Natural Resources Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2012 | Seq No: 13 | ARCHIVED on 27-Dec-2018 | ISR34960 |

Implementing Agencies: Ministry of Agriculture and Rural Development

### Key Dates

#### Key Project Dates

Bank Approval Date: 10-May-2012

Effectiveness Date: 02-Nov-2012

Planned Mid Term Review Date: 18-May-2015

Actual Mid-Term Review Date: 22-Jul-2015

Original Closing Date: 31-Jan-2018

Revised Closing Date: 31-Jan-2019

### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objective is to improve the sustainable management of coastal fisheries in Project Provinces.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

### Components

Name

Component A: Institutional capacity strengthening for sustainable fisheries management:(Cost \$5.30 M)

Component B: Good practices for sustainable aquaculture:(Cost \$48.10 M)

Component C: Sustainable management of near-shore capture fisheries:(Cost \$52.20 M)

Component D: Project management, Monitoring and Evaluation (M&E):(Cost \$12.30 M)

### Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Satisfactory	● Satisfactory
Overall Implementation Progress (IP)	● Satisfactory	● Satisfactory
Overall Risk Rating	● Moderate	● Moderate

### Implementation Status and Key Decisions

The project has now met or exceeded almost all output and outcome targets. Results were particularly strong in integrated spatial planning (ISP), farmer training and adoption of good aquaculture practices (GAP), and fisheries co-management.

- **Institutional capacity strengthening:** ISP activities have been rolled out to all 40 project coastal districts, involving 257 project communes, with training for more than 1,500 stakeholders. The approved ISPs are being used to inform and guide new developments in the provinces, and it will provide inputs for preparation of future provincial socio-economic planning. ISP has improved awareness and capacity of provincial, district and commune staff working in different sectors to work together for integrated coastal spatial planning. The



project upgraded fisheries database (*VnFishbase*) have been expanded and adopted in all 28 coastal provinces. It provides up-to-date information for DOF and provinces for science-based fisheries management. The policy studies carried out under the project have contributed effectively to the implementation of the Fisheries Strategy and Fisheries Masterplan to 2020, and the amendment of the Fisheries Law which was passed by the National Assembly in November 2017.

- **Good practices for sustainable aquaculture:** Some 249 GAP groups in 51 GAP shrimp zones have been established, involving 9,375 participating shrimp farming households over a farming area of 12,537 hectares. In addition, 32 GAP diversification zones have also been established, with 3,734 households participating in farming other species than shrimp over an area of 4,413 hectares. Altogether, 32,585 farmers have been trained in shrimp and diversification GAP. Around 83 percent of the surveyed farms now have wastewater treatment systems that fully meet required environmental standards, and 86 percent practice proper post-harvest handling of pond mud (compared to only 9 percent at the beginning of the project). Around 91 percent of shrimp farmers in the GAP zones now are using high quality seed stock. As results, disease losses in 2018 was reportedly reduced by 81 percent in farming area (hectares) and 87 percent in yield (tons/ha) compared to the baselines and farming profit of farmers adopting GAP increased 76 percent.
- **Sustainable management of nearshore capture fisheries:** To date, 97 co-management groups (CMGs) have been established for near-shore capture fisheries, involving 13,751 fishing households along 826 km of coastline. In addition, three Locally Managed Marine Areas covering nearly 90,000 hectares in Binh Dinh, Phu Yen, and Khanh have been officially approved, established, and put under active implementation. Data collection of catches and reporting also have been maintained in all provinces. The upgraded fishing ports and landing sites has also helped reduce postharvest losses from 35 to 15 percent.

## Risks

### Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● Moderate	● Moderate
Macroeconomic	--	● Moderate	● Moderate
Sector Strategies and Policies	--	● Moderate	● Moderate
Technical Design of Project or Program	--	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	--	● Moderate	● Moderate
Fiduciary	--	● Moderate	● Moderate
Environment and Social	--	● Moderate	● Moderate
Stakeholders	--	● Moderate	● Low
Other	--	--	--
Overall	--	● Moderate	● Moderate

## Results

### PDO Indicators by Objectives / Outcomes

The PDO is to improve the sustainable management of coastal fisheries in Project Provinces

- ▶ Indicator One: Increase in the proportion of production areas applying Good Aquaculture Practices and in which water effluent meets national standards (Percentage, Custom)

Baseline

Actual (Previous)

Actual (Current)

End Target



Value	9.00	83.00	86.00	50.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. At baseline, only 9% of farms in the project's targeted areas had wastewater treated before being released into the surrounding environment. After the project established GAP zones, most farmers in the targeted areas adopted wastewater/ solid waste treatment technologies introduced by the project (i.e. bioflocs, bio-treatment and recycling, polyculture with tilapia, etc.). In the last survey, the ratio of farms having wastewater and solid waste treatment meeting the national standards was up to 83%, while the remaining were partially compliant. Those farms would need further technical assistance to become fully compliant.			
►Indicator Two: Reduction in shrimp disease losses in the production areas applying Good Aquaculture Practices. (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	71.00	87.00	30.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded (in the 2006 Project Restructuring, the end target was revised to increase from 20% to 30%). At baseline, 35% of ponds in the project's targeted areas were severely infected by diseases (these affected ponds were completely lost). Thanks to the project's interventions by establishing GAP zones, adopting high quality seed, appropriate wastewater treatment to improve pond water quality, and enhanced disease control and containment, disease incidences in the targeted areas has reduced sharply. The last survey in the targeted areas showed that the ratio of pond areas infected by diseases was only 6.5% (81 percentage point reduction).			
►Indicator Three: Increase in the proportion of areas in which sustainable Near-Shore fisheries resource management systems are applied. (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	63.00	65.00	50.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. At baseline, near-shore fisheries co-management did not exist in the project provinces. The use of illegal and unsustainable fishing practices such as dynamites, electric, chemicals, etc. were widespread. Thanks to the establishment and implementation of near-shore fisheries co-management over 800 km of all coastal districts, by the reporting time, 65% of provincial coastlines were under effective implementation of co-management with active participation from local fishers. In these co-management areas, fishing regulations were established, fishing right allocation, participatory surveillance, control, and monitoring, and additional livelihood development carried out, and fishing violations reduced by more than 30% compared to before co-management.			

### Overall Comments

The project continued making good implementation progress and have met all of its development objective indicators.

### Intermediate Results Indicators by Components



### Component A: Institutional capacity strengthening for sustainable fisheries management

#### ►A1. Percent of Project Provinces and their Districts and Communes receiving training in intersectoral planning (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target achieved. Training was provided to all ISP teams in 257 project communes of 40 project coastal districts in 8 project provinces (except the newly added province of Ninh Thuan which did not participate in this component).			

#### ►A2. Number of Project Provinces having provincial inter-sectoral planning teams established (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	8.00	8.00	8.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target Achieved. All 8 project provinces (except the newly added province of Ninh Thuan) had ISP team established and fully operational in implementing ISP in all coastal districts and producing ISP reports.			

#### ►A3. Number of studies carried out for the new Fisheries Master Plan (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	12.00	13.00	12.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. Out of the 13 studies shortlisted by DOF to support the implementation of the Fisheries Master Plan, all of them have been completed and accepted by MARD and PPCs, of which 5 at central level (PCU), and 8 at the provincial level, including 3 in Binh Dinh, 2 in Phu Yen, 1 in Nghe An, 1 in Soc Trang, 1 in Ca Mau.			

#### ►A4. Number of Project Provinces having the fisheries database system upgraded and fully operational (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3.00	8.00	8.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target Achieved. Upgrade of the VnFishbase system was completed including both hardware and software and it is fully operational. All project provinces (except the newly added province of Ninh Thuan which did not participate in this component) are performing well in updating and uploading data on the system.			

### Component B: Good practices for sustainable aquaculture

#### ►B1. Number of farmers receiving training in Good Aquaculture Practices (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
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Value	0.00	32,585.00	32,858.00	20,000.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. The project established 50 GAP zones and 32 aquaculture diversification zones, then provided training in GAP to farmers in these zones. In 2018, the government stopped using IDA funds for farmers training. Instead, trainings were included in the province's extension program and financed by the government.			
<b>►B2. Increase in incomes of aquaculture farmers adopting GAP (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	76.00	10.00
Date	01-Oct-2018	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. This indicator was added in the 2016 Restructuring. Previous data were not collected. Data on production costs, yields, gross margins, and net profits were compared between farmers adopting GAP in the project area and those outside project area who have not yet adopted GAP. Data were compared for the same crops in the same year of 2018.			
<b>►B3. Number of hatcheries operating at bio-security standards (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	30.00	55.00	50.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. In the 2016 Project Restructuring, the end target was revised which increased from 20 to 50. Fifty-five (55) local shrimp hatcheries have been certified to meet biosecurity standards (18 in Ninh Thuan, 16 in Phu Yen, 15 in Ca Mau, and 6 in Khanh Hoa). There were no bio-security standards for hatcheries before the project. The project hired an international hatcheries specialist through FAO to help review and develop bio-security criteria for shrimp hatcheries in Vietnam based on international experience. These criteria were reviewed and adopted by DOF for the project and first piloted in the project provinces. Regarding certification, DARDs established a team of experts to visit every hatchery which was interested. Detail technical assessments were carried out including recommendations for improvement. Repeated assessments were carried out until the hatchery met all the criteria, then the expert team made recommendation to DARD to provide certification for the hatchery.			
<b>►B4. Proportion of farmers in targeted areas using certified/quality seed (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	25.00	89.00	91.00	50.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. At present, a few foreign hatcheries such as CP and Viet Uc are dominating in the shrimp seed supply market in Vietnam. Accreditation of local hatcheries provided farmers more choice of good seed at more competitive prices. Through GAP training, farmers' adoption of good quality seed in the project targeted areas increased sharply. At baseline, it was only 25%. In the last survey, it increased to 91 percent.			
<b>►B5. Number of provincial and district agencies in charge of aquatic animal disease management strengthened in disease diagnostic, surveillance, and early reporting (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	8.00	41.00	30.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. In the 2016 Project Restructuring, this indicator was revised to include district veterinary agencies. The previous value (08) was reported for the eight provincial disease management agencies. The current value was reported for all 8 provincial centers and 31 district centers. The upgrades of these centers included improved infrastructure, provision of disease diagnostic equipment, and staff training. In addition, disease diagnostic capacity was also strengthened; community-based disease surveillance procedures were developed; and disease control and outbreak containment were carried out and maintained in all GAP zones. These institutional development achievements have helped control and reduce disease infection and outbreaks in the project's target areas.			
<b>►B6. Proportion of farmers in targeted areas accessing/using appropriate water/waste management systems (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	9.00	83.00	86.00	80.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. In the 2016 Project Restructuring, the end target of this indicator was revised, which from 50 to 80 percent. At baseline, only 9% of farms in the project's targeted areas had wastewater treated before being released into the surrounding environment. After the project established GAP zones, most farmers in the targeted areas adopted wastewater/ solid waste treatment technologies introduced by the project (i.e. bioflocs, bio-treatment and recycling, polyculture with tilapia, etc.). In the last survey, the ratio of farms having wastewater and solid waste treatment meeting the national standards was up to 86%, while the remaining were partially compliant. Those farms would need further technical assistance to become fully compliant.			

### Component C: Sustainable management of near-shore capture fisheries

#### ►C1. Co-management for Near-Shore capture fisheries successfully carried out and adopted in the pilot Districts (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	19.00	19.00	16.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. At baseline, near-shore fisheries co-management did not exist in the project provinces. Thanks to the establishment and implementation of near-shore fisheries co-management over 800 km of all coastal districts, by the reporting time, 19 coastal districts of 8 project provinces have successfully implemented fisheries co-management with active participation from local fishers. In these co-management areas, fishing regulations were established, fishing right allocation, participatory surveillance, control, and monitoring, and additional livelihood development carried out, and fishing violations reduced by more than 30% compared to before co-management.			

#### ►C2. Successful co-management of high biodiversity areas and important natural habitats (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	89,855.00	89,855.00	50,000.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. Unit of measurement is hectare. The appraisal target was only 30,000 ha. It was increased to 50,000 ha in the 2016 RP. Three Locally Managed Marine Areas (LMMAs): (i) Quy Nhon Bay			



in Binh Dinh (36,000 ha), (ii) Tuy An lagoons in Phu Yen (46,855 ha), and (iii) Nha Phu Lagoon in Khanh Hoa (around 7,000 ha) have been officially established and under effective implementation. In these co-management areas, fishing regulations were established, fishing right allocation, participatory surveillance, control, and monitoring, and additional livelihood development carried out, and fishing violations reduced by more than 30% compared to before co-management.

►C3. Number of District monitoring, control and surveillance field stations established, adequately staffed, and fully operational (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	28.00	28.00	30.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target nearly met. In the 2016 Project Restructuring, the end target was revised, which increased from 16 to 30. The actual need for project support was only 28 field MCS stations. They have been upgraded, including construction of buildings, recruitment of additional staff, and provision of training to carry out surveillance activities in a partnership with co-management groups (CMGs). 16 patrol boats and 14 speed boats have been procured for the MCS stations. Hotlines have been established in all provinces for reporting fishing violations and timely response.			

►C4. Number of fishing ports and landing sites operating with improved hygiene conditions and handling practices (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	7.00	17.00	16.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	To date, 17 fishing ports and landing sites have been largely completed their upgrades, including Hoang Phu and Hai Chau landing sides (in Thanh Hoa); Lach Van and Lach Lo (in Nghe An); Xuan Hoi and Thach Kim (in Ha Tinh); Tan Phung, Nhon Ly, De Gi, and Quy Nhon (in Binh Dinh); Dan Phuoc and Dong Tac (in Phu Yen); Vinh Luong (in Khanh Hoa); Ca Na and Ninh Chu (in Ninh Thuan); Mo o (in Soc Trang); and Song Doc (in Ca Mau).			

►C5. Proportion of after-catch physical losses at ports/landing sites (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	25.00	0.00	14.50	12.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target largely met (in the 2016 Project Restructuring, this new indicator was added). Previous data were not collected. At baseline, the loss rate was estimated at 25%. However, according to the recent M&E survey, the estimated loss before the project was probably closer to 35%. Although the current rate of 14.5% is slightly short of the target, the loss rate is expected to continue improving and is likely to fall below 12% in 2019.			

Component D: Project management, Monitoring and Evaluation (M&E)

►D1. Project staff trained and performing satisfactorily (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	99.00	90.00



Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target exceeded. In the 2016 Project Restructuring, the Component D indicator was split into 2 sub-indicators (D1) Project staff trained and performing satisfactorily, and (D2) Number of project provinces managing the project satisfactorily, with good M&E.			
▶D2. Number of project provinces managing the project satisfactorily, with good M&E (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	8.00	8.00	6.00
Date	12-Apr-2012	30-Apr-2018	31-Oct-2018	31-Jan-2019
Comments:	Target Exceeded. In terms of project management, the performance PCU and PPMUs continued to be satisfactory reflected by a number of achievements, such as good disbursement and technical physical progress in all components and excellent follow-ups with the government and concerned ministries to obtain adequate IDA and GEF budget allocation for 2018. Regarding M&E, PPMUs have been maintaining quarterly updates on M&E and the quality of reports is acceptable.			

### Overall Comments

The project has achieved (and exceeded) most of the set targets.

## Data on Financial Performance

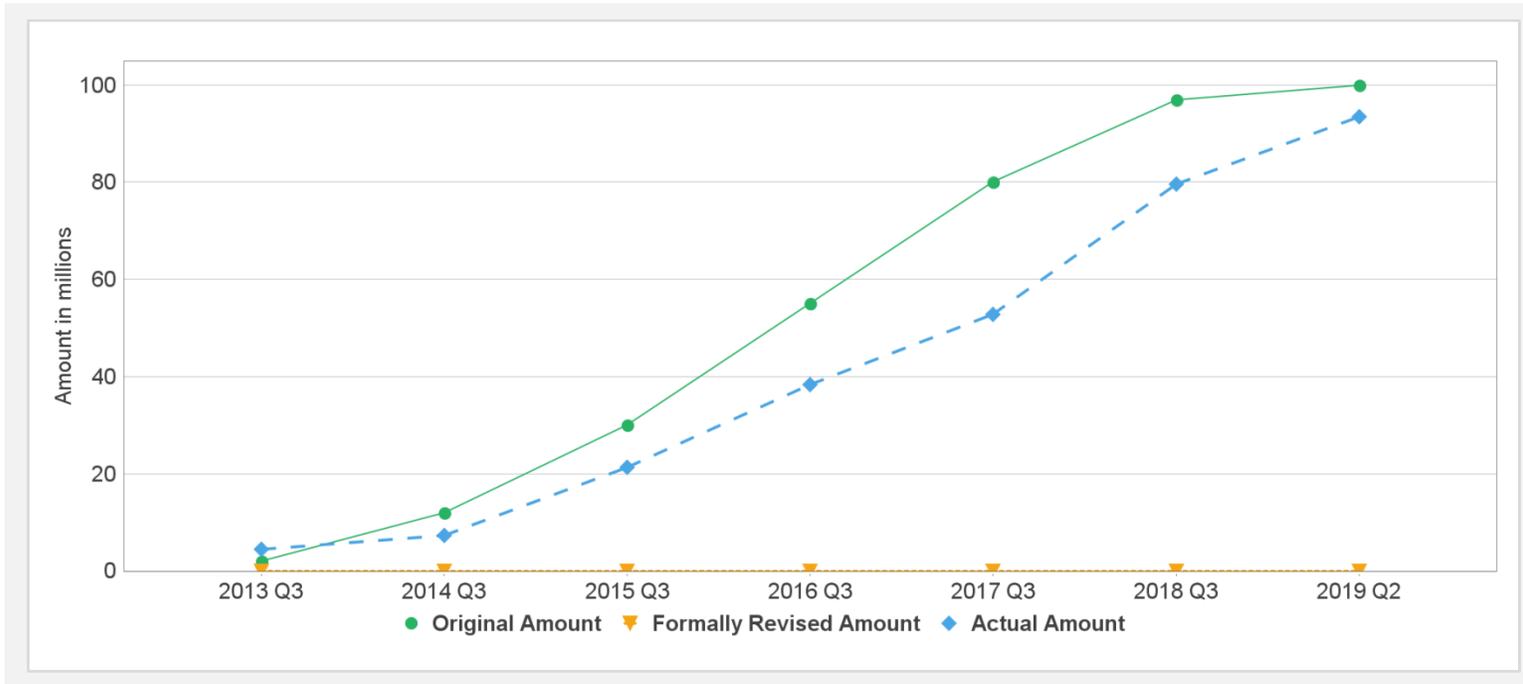
### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P118979	IDA-51130	Effective	USD	100.00	100.00	0.00	87.94	3.82	96%
P124702	TF-14293	Effective	USD	6.50	6.50	0.00	5.47	1.03	84%

### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P118979	IDA-51130	Effective	10-May-2012	09-Aug-2012	02-Nov-2012	31-Jan-2018	31-Jan-2019
P124702	TF-14293	Effective	02-May-2013	02-May-2013	02-May-2013	31-Jan-2018	31-Jan-2019

### Cumulative Disbursements



## Restructuring History

Level 2 Approved on 22-Jun-2016 ,Level 2 Approved on 05-Aug-2016 ,Level 2 Approved on 25-Jan-2018

## Related Project(s)

P124702-Vietnam - Coastal Resources for Sustainable Development