

Evaluation Summary

Infrastructure development of space oceanography (INDESO) project

Country: **Republic of Indonesia**

Sector: **Natural resources and environment**

Evaluator: **Poseidon Aquatic Resource Management Ltd**

Date of the evaluation: **December 2018**

Key data on AFD's support

Project number: CID 1025

Amount: US \$30 million loan

Disbursement rate: 100%

Signature of financing agreement: June 2012

Completion date: June 2017

Total duration: 60 months



Context

The project was developed following the realization that the **data and technological solutions available to provide oceanographic information are insufficient.**

This information is necessary to **ensure sustainable management of Indonesia's marine resources.**

Actors and operating method

The **contracting authority (borrower)** was the **Ministry of Finance.**

The **management contractor (implementing agency)** was the **Ministry of marine affairs and fisheries (MMAF / KKP).**

The **project management unit** was the **Marine and fisheries research and development agency up until 2014. From 2015 onwards, it was the Human resources agency for Marine and fisheries research.**

Objectives

- To use a **multidisciplinary approach based on satellite data acquisition** in order to understand, analyze, model and predict the evolution of oceanic conditions.
- To support **KKP's decision-making and institutional mission.**

Expected outputs

- An **operational centre (and mirror centre)** functioning with all equipment and software to acquire data.
- To enhance the **technical capacity** to deliver data from satellite technology to users.
- To encourage the **use of the applications and models** by downstream users.

Performance assessment

Relevance

The project was **highly relevant to the country's needs** before and during implementation, and **consistent with formal government policies and strategies**. **Technological solutions** fostered by the project remain relevant, and **the need for scientific research development** was relevant.

However, the **informal government focus on illegal unreported and unregulated fishing (IUU fishing)** meant that only 2 of the 7 applications were well used by government. Design was robust but the log frame was **poorly specified** and the project risks **insufficiently considered**.

Effectiveness

Project outputs (applications) were **delivered as planned** and were of **good quality**. However, these outputs did not translate well into the intended outcomes of the specific objective. The project was nonetheless effective in **helping combat IUU fishing and building human capacity**.

Efficiency

The project funding from AFD and the government was provided in a **timely manner**. **Administrative efficiency** resulted from:

1. **payment mechanism being handled by AFD,**
2. **having a single international contractor,**
3. **and minimum disbursements.**

Technological solutions provided by radar are **cost-efficient** compared to alternative costs of sea/aerial surveillance for visual location of vessels and oil spills. Costs of developing and running fish stock model and coastal applications should be **efficient compared with the value of the resources they could serve to protect**.

However, the **lack of uptake of the technological developments** supported by the project ultimately undermined the efficiency of project expenditure.

Impact

As the project outcomes and specific objective were **only partially achieved**, INDESO's impact was limited although it had the potential to be significant. **Development of human capacity was a particular strength** of the project, and some positive impacts on fish stocks may have been supported by the use of radar data for fisheries enforcement purposes. However, **the project's impact was overall limited** considering the intended impacts envisaged in the project design.

Sustainability

Sustainability was poor, with none of the 7 applications being used at the time of the evaluation (although the government plans to recommence buying radar data and to reactivate the IUU application). **Insufficient focus on planning for sustainability** was provided during the project.

Added value of AFD's contribution

AFD's added value was **considerable** in terms of

1. **funding and technical inputs to project design, project supervision, and project evaluation,**
2. **handling payments.**

Conclusions and lessons learnt

AFD and the government should:

1. Ensure the dissemination products and exit strategies are **incorporated into project designs**,
2. include training of trainers if **staff changes** are a risk,
3. ensure **high quality log frames** in designs, with SMART indicators and targets, and their use during implementation,
4. complete **baseline assessments** as the basis for **enhancing the quality of evaluations**, and
5. ensure sufficient technical assistance to support project implementation.

The government should:

1. develop a **business plan** for commercialisation of data/products,
2. establish **mirror centre** as matter of urgency and,
3. better use INDESO outputs/applications for **sustainable management**.

AFD should improve the scope of supervision missions and the structure of supervision mission reports.