



Environmental Impact Assessment and Environmental Management Plan

CEPF Grant 111708

JAPESDA Gorontalo

Strengthening Conservation and Management of Small-Scale Fisheries in Peleng-Banggai,
Indonesia

1. **Grantee organization:** JAPESDA Gorontalo
2. **Grant title:** Strengthening Conservation and Management of Small Scale Fisheries in Peleng-Banggai, Indonesia
3. **Grant number:** 111708
4. **Grant amount (US dollars):** approximately \$65,000
5. **Proposed dates of grant:** May 2021 – October 2022
6. **Location (country):** Indonesia
7. **Date of preparation of this document:** 10 April 2021

8. Project background

Central Sulawesi is a peninsula running west to east. To the north lies the Gulf of Tomini and the Togean Islands. To the south is the Tolo Bay and the Peleng and Banggai Islands. Japesda has been working in the villages of Lambangan, on the north side of the peninsula, and Uwedikan, on the south side of the peninsula for several years, including in 2018 with funding from CEPF to support the creation of marine protected areas. In the broader district encompassing these villages, there are 8,300 households that have fishing as the primary source of income.

The reefs on both sides of the peninsula host important biological diversity. The reefs are under threat from unsustainable fishing. Japesda's goal is to improve the management of the reefs and fisheries. The project will:

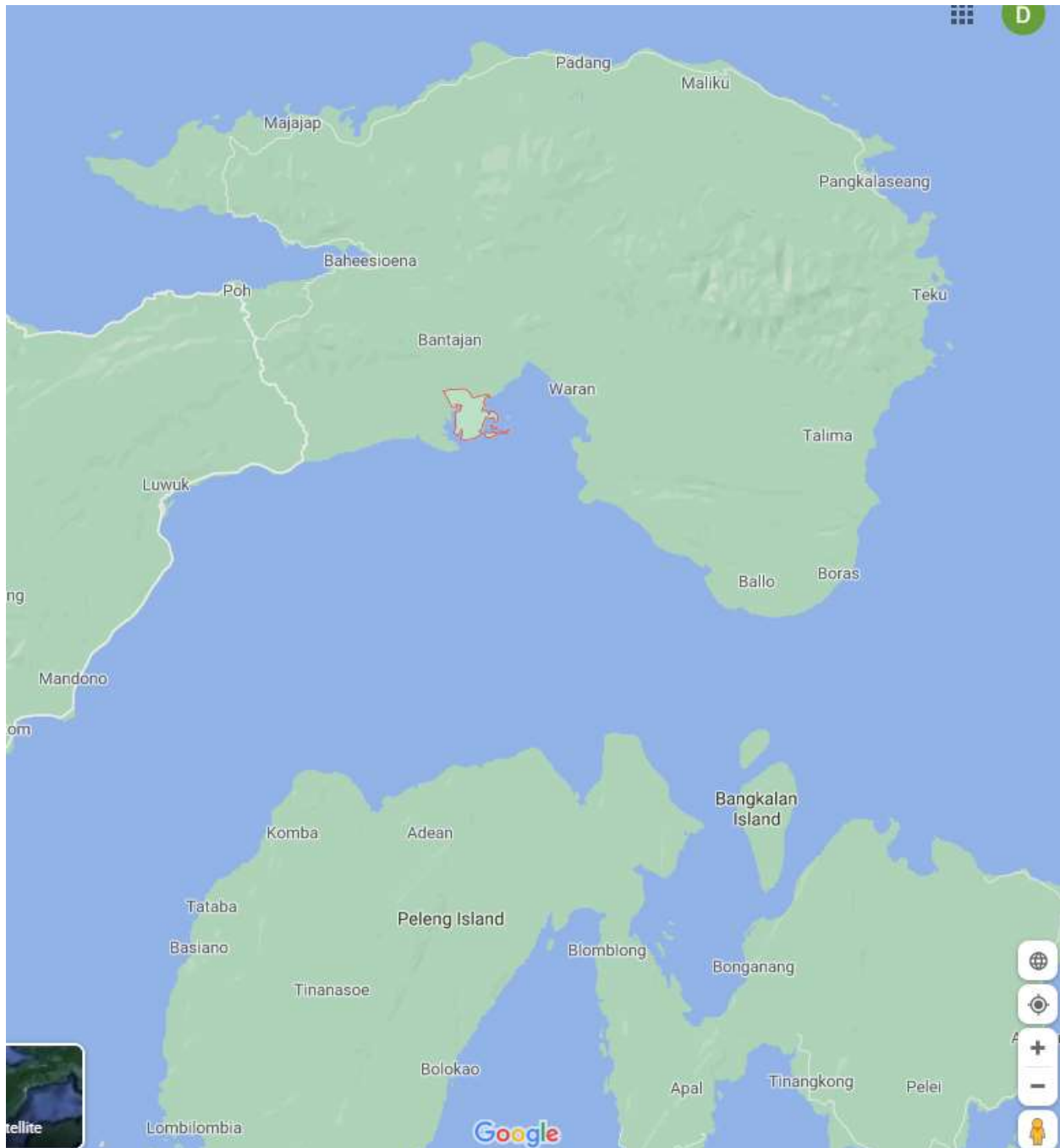
1. Prepare a fisheries profile.
2. Conduct a coral reef transplantation off the coast of Uwedikan.
3. Train people in post-catch handling to increase market value.
4. Raise local awareness about the value of sustainably managed fisheries that are anchored by marine protected areas.

9. Status of the area affected

The targeted area is in the sea south of Uwedikan, marked below. This falls within the Togean-Banggai priority marine corridor, also recognized as one of the world's fifty most important reefs. The reef is at risk of degradation from overuse, and in places, is severely degraded.

In 2007, the Kabupaten Banggai Marine and Fisheries Services established a small marine protected area and conducted a small successful coral reef transplant off the coast of Uwedikan. In 2018, the Central Sulawesi Marine and Fisheries Agency conducted another successful transplant. The system used replicates what is done elsewhere in the region, including in Olele, Gorontalo and in Bunaken National Park, North Sualwesi.

The prospective area is in the sea, not "owned" by any individual and under the ultimate jurisdiction of various divisions of the government (e.g., village, camat, kabupaten, province, and national government agencies).



10. Approach

Coral rehabilitation activities will be carried out in several stages, namely preparation, initial surveys, discussions with village government and communities, preparation of materials and tools, monitoring and evaluation. Japesda will first carry out a survey to determine the condition of the waters of the coral reef rehabilitation location including: the condition of the substrate for coral species, particularly the *Acropora* species that will be used as the initial type of transplant in this activity. Observations of other biota will also be carried out, especially types of seagrass and algae, as well as animals around the waters such as reef fish. Water quality as a supporting variable will also be measured, among others:

temperature, salinity, current velocity, pH, and brightness. This activity will also involve fishermen groups, marine protected area managers, and village government in the form of discussions and training.

After the survey, and with all permissions (Item 15, below) and consultations (Item 16, below) complete, the provisional plan to is to install fifteen transplant racks of 2x2 meters per rack, tentatively scheduled for October 2021. The racks will be similar to those pictured below. This activity will be led by an expert from Muhammadiyah University of Gorontalo, Mr.Mohamad Sayuti Djau, S.IK, M.Si with support from relevant Japesda personnel.



11. Anticipated impact

This work is restorative. Only “native” species of coral will be transplanted from nearby or similar reefs, cultivated and harvested so as not to damage the source. There is no foreseen negative impact. The worst foreseen outcome is that the transplanted coral dies, meaning the situation from today will be no different. As we will be using local species, there is no anticipated risk of introduction of invasive species.

The anticipated positive impact is restoration of 900 square meters of reef.

12. Mitigation measures

The only conceived negative impact would be introduction of non-native species. However, this will be avoided by only using species found in this reef area.

13. Actions to ensure health and safety

- All boats used at sea for this activity will be properly licensed.

- All boats used at sea for this activity will have personal flotation and life saving equipment per the number of crew and passengers.
- All staff and community members engaged in actual reef transplantation (as opposed to merely observing from the boat or shore) will be checked for swimming for ability and water safety prior to work.
- All people using scuba equipment will be licensed and qualified divers.
- The team will maintain first aid equipment and mobile phones in case of emergencies.

14. Monitoring and evaluation

Project Manager Ahmad “Matt” Bahsoan, working with Chief Technical Advisor Rahman Dako, will be responsible for assessing if the reef transplantation is successful, and will be responsible for adherence to this Environmental Management Plan.

15. Permissions

Per national and Central Sulawesi provincial law, coral reef rehabilitation may be conducted by NGOs, the community, the private sector, or government entities provided proper notifications and approvals have come from the Central Sulawesi Marine and Fisheries Agency (Dinas Kelautan dan Perikanan, Propinsi Sulawesi Tengah). Japesda will coordinate all proposed work under this project with this agency, including as described in Item 16, below.

16. Consultation

Japesda has ensured that it has proper representative support as it developed this proposal, including an endorsement from:

- Drs. Benyamin Pongdatu, Kepala Dinas Kelautan dan Perikanan, Kabupaten Banggai (15 February 2021)

This reflects the continuing support of the local government over the past three years, including the endorsement from:

- Dr. Ir. Hasanuddin Atjo, Kepala Dinas Kelautan dan Perikanan, Propinsi Sulawesi Tengah (10 January 2019)

Further, all the other steps of this project, described in Item 8, are fundamentally about participatory implementation.

Step 1 related to fishery assessment involves the community making their own determination on the status of the fishery. Step 3 involves helping people to offset lost income from the quantity of fish caught. Step 4 involves raising awareness.

17. Disclosure

Japesda will ensure that local stakeholders are aware of the work and understand how to voice complaints if any. We will:

- Post information in Bhs. Indonesia in the *kantor desa* of each village, at the Dinas Kelautan dan Perikanan Daerah, and at our main office in Gorontalo.
- Explain our activities at all stakeholder meetings.
- Create fliers about the project's objectives and planned activities. These fliers will include contact information for Japesda staff. We will distribute these fliers at all stakeholder meetings.

During all meetings and in general interactions with the public, JAPESDA personnel will inform local people and other stakeholders that they have the right to raise a grievance at any time with JAPESDA, local authorities, or CEPF about any issue relating to the project. Before starting the project implementation, local communities will be informed of the objectives of the grant. They will be given telephone numbers and e-mails of contact persons at JAPESDA, local government, and CEPF. This information will also be put on all education materials that will be produced during this project implementation including posters, brochures, and booklets. Contact information of the Regional Implementation Team and CEPF will be made publicly available in Bhs. Indonesia.

18. Conflict resolution and complaint mechanism

If JAPESDA receives a grievance, it will communicate the grievance, together with a proposed response, to CEPF and the RIT within 15 days.

We will inform stakeholders that grievances should proceed in the following order below. If the stakeholder is unsatisfied with the response at any step, they may proceed further.

- Ahmad "Matt" Bahsoan, Project Manager, JAPESDA, matbahsoan@yahoo.com, 081241650231
- Nurain Lapolo, Director, JAPESDA, nurainlapolo0205@gmail.com, +6285240744488
- Wahyu "Teguh" Prawira, RIT Team Leader, Burung Indonesia, w.teguh@burung.org, +62-813-3290-1486
- CEPF Executive Director: cepfexecutive@conservation.org