

Darwin Initiative Annual Report

Important note: To be completed with reference to the Reporting Guidance Notes for Project Leaders: it is expected that this report will be about 10 pages in length, excluding annexes

Submission Deadline: 30 April

Darwin Project Information

Project Reference	19-016
Project Title	Leveraging markets to conserve mangrove biodiversity and alleviate poverty in Madagascar
Host Country/ies	Madagascar
Contract Holder Institution	Blue Ventures Conservation
Partner institutions	Direction Régionale de l'Environmnnement et des Forêts; Centre Nationale de Recherche Océanographie; Honko Mangrove Conservation and Education; Institut Halieutique et des Sciences Marines; Département Forêt de l'Ecole Supérieure des Sciences Agronomiques of the University of Antananarivo (ESSA-Forêt)
Darwin Grant Value	£226,839
Start/end dates of project	1 July 2012 – 30 June 2015
Reporting period (eg Apr 2013 – Mar 2014) and number (eg Annual Report 1, 2, 3)	April 2013- March 2014
Project Leader name	Dr Alasdair Harris
Project website	http://blueventures.org/conservation/blue-forests.html
Report author(s) and date	Frances Humber, Kate England, Aude Carro, Garth Cripps, 30 April 2014

1. **Project Rationale**

The mangrove forests of Madagascar have been lost at rates exceeding 1-2% annually since 1990 (Blue Ventures unpubl. Data; Giri *et al.* 2011)¹, imposing significant threats to both the unique biodiversity they support and the millions of coastal people who depend directly on mangroves for their livelihoods. In the fight against global climate change, mangroves are at the frontlines – sequestering between 6 and 20 times the amount of carbon sequestered by undisturbed Amazonian rainforest.

Promotion of voluntary carbon projects is a key strategy in Madagascar's National Policy on Climate Change 2011 for mitigating threats and promoting development. This, combined with the high ecosystem services value of Madagascar's mangroves, provides motivation for the goals of this project at local and national levels.

By capitalising on our experience working with communities towards sustainable management, this project aims to stop forest loss by alleviating poverty. Primary activities under this project, supported by Darwin, are taking place in three locations, as summarised in Figure 1. Key development challenges addressed through this project are a lack of capacity for governance and forest management, at the local

Annual Report template with notes 2013-14

¹Giri, C. National-Level Mangrove Cover Data-Sets for 1990, 2000 and 2010; United States Geological Survey: Sioux Falls, SD, USA, 2011

scale for the Darwin project, and the national-level in Madagascar for Blue Ventures' Blue Forests programme (an overview of this programme is attached as Annex 1 in a separate folder as part of Annex 4).

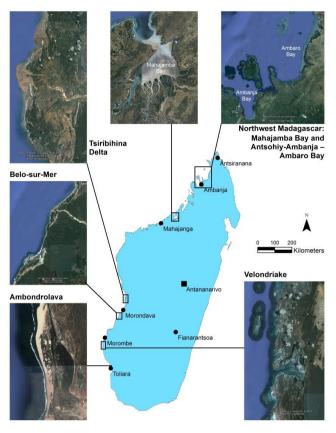


Figure 1. An overview of sites where Blue Ventures is conducting research and carrying out activities on the Blue Forests programme. Activities undertaken as part of the Darwin project are focused on the two southernmost sites (Ambondralava and Bay of Assassins in Velondriake) and the northernmost site (Ambaro and Ambanja Bays).

Ambaro-Ambanja Bay (AAB) showed the highest rates of deforestation in Madagascar from 2000 to 2010 and is a candidate site for a pilot VCS mangrove REDD+ project given its severe levels of mangrove loss. Mamelo Honko (MH) in Ambondrolava and the Bay of Assassins (BOA) in the Velondriake Locally-managed Marine Area (LMMA) are candidate sites for Plan Vivo Foundation mangrove carbon projects, and were chosen based on strong community links already existing with Blue Ventures (BV) and our partner, Honko Mangrove Conservation and Education (Honko).

2. Project Partnerships

Government Authorities

Our membership in Madagascar's national Monitoring, Reporting, and Verification Group (GT-MRV) for REDD+ meets demand for mangrove carbon experts at the national-level within Madagascar. Since April 2013, we attended three workshops hosted by the National REDD+ Authorities: National Environment Office (ONE), Director of Environmental Information (DIE), Director of Climate Change (DCC), Designated National Authority (DNA), and REDD+ Coordinator. Regular consultations and workshops allow us to ensure mangrove forests are properly taken into account by, and contribute meaningfully to, Madagascar's Readiness Preparation Proposal (R-PP) for REDD+, notably with the inclusion of AAB carbon stock data. With the cooperation of all members of the GT-MRV, the R-PP was submitted on 7 April, 2014, for consideration of inclusion of Madagascar in the Forest Carbon Partnership Facility. Our work with authorities contributes directly to the objectives in Output 5 for the Darwin project. See Section 3.1, Output 5 for further detail on our work with government authorities and Annex 2 (attached in a folder as part of Annex 4) for a comprehensive list of 49 government meetings attended since April 2013 and March 2014.

National Research Institutes

Our work with academic institutions, including the Ecole Supérieure des Sciences Agronomiques-Forêts, Université d'Antananarivo (ESSA-Forêts) and Institut Halieutique et des Sciences Marines, Université de Toliara (IHSM) consists of ongoing research collaborations. Our team collaborates with 1 ESSA-Forêts MSc student and 1 IHSM PhD student, with each student working under a contract agreement or "Convention de Stage" (Annex 3 in Annex 4) co-signed by BV project managers, students, and their academic supervisors. Research proposals, terms of reference for academic studies, data analysis, and final deliverables are developed in cooperation with students and supervisors to ensure that the work conducted contributes to the overall Darwin project objectives. While students conduct their theses, our team reviews their proposals (two since April 2013) and when theses are defended, a member of BV staff sits on the jury as a thesis examiner.

At the institutional level, we participate in events and symposiums held by partner academic institutions. Over the past year, we have attended shared events with the IHSM including <u>International Forests Day</u> and the ESSA- Forêts symposium: Biodiversity and People in the Context of Climate change from 8 - 11 December 2013, where three presentations were delivered on our work (Annex 4 in Annex 4).

Our partnership with the National Centre for Oceanography Research (CNRO) in Ambaro-Ambanja Bay did not yield significant results in Year 2 due to difficulties coordinating activities with the CNRO which has been undergoing a management transition since 2013. A collaboration plan will be established with CNRO as soon as their management restructuring is completed.

NGO Partners

The partnership with Honko has been on standby since April 2013, when Honko experienced funding and staff resource shortfalls which limited community activities on the ground. Over the past year, our collaboration with Honko has consisted of two field site visits, email communication, and three meetings to track project status.

Private partners

The partnership with UNIMA in Mahajamba Bay didn't yield significant results in Year 2 due to a lack of capacity to carry-out feasibility research and co-financing by UNIMA. A project proposal is in the process of being submitted to UNIMA to support fundraising through its buyers in April 2014.

Other collaboration

East Africa Forum for Payments for Ecosystem Services (EAFPES)

One of our project managers is the EAFPES Madagascar focal point, and leads communications with this forum of stakeholders working on PES projects in East Africa. Annex 5 (attached) shows a proposal submitted in March 2014 to host a workshop with regional stakeholders with detail on EAFPES partners.

Plan Vivo Foundation

The Plan Vivo Foundation supports the technical development and evaluation of our BOA and MH projects (see Output 5, Activity 5.3 for further details on our work with Plan Vivo). One Plan Vivo stakeholder meeting was attended in Edinburgh, UK, in October 2014. During this meeting, Charlie Gough, our Monitoring and Evaluation Coordinator, explained our blue carbon projects in a Plan Vivo video featured on our project's <u>website</u>.

Madagascar National Parks

Madagascar National Parks (MNP) is a former partner of BV who we still collaborate with on an *ad-hoc* basis. For the Darwin project, we keep MNP updated on all progress and major milestones in the Velondriake LMMA project area, which shares an easterly border with the Mikea National Park. As with other regional partners, this has been undertaken through formal consultations on 15 November 2013 and a field visit to the Director of Mikea National Park in Ankililoake on 23 November 2013.

Asity Madagascar

Asity Madagascar is BirdLife International's official partner within Madagascar, and acts as promoter of the Mangoky-Ihotry protected area, which shares a northerly border with the Velondriake LMMA. BV conducts annual meetings with Asity (one in November 2013, one in February 2014) to update them on project progress. Asity have also shown increased interest in establishing a blue carbon project within their protected area following our meetings. Being the only organisation in Madagascar working on pioneering blue carbon projects, we have offered our technical support to Asity should this project become a reality.

Worldwide Fund for Nature

We have a formal partnership with Worldwide Fund for Nature, Madagascar and Western Indian Ocean Programme Office (WWF MWIOPO) to conduct a feasibility study for blue carbon in the Tsiribihina and Manambolo Deltas. An annual convention (Annex 6) exists for this work, and workplans are set collaboratively by meetings between BV and WWF project managers and field staff. We collaborate by working together at the WWF MWIOPO office in Morondava (for six weeks in Y2) and jointly hosting annual workshops with project stakeholders, and undertaking fieldwork with mixed teams of WWF and BV staff (Annex 7).

3. Project Progress

3.1 **Progress in carrying out project activities**

Output 1. Communities have clear and uncontested land and user rights to their customary mangrove areas; and give their Free Prior & Informed Consent to use these areas for a forest carbon project

Activity 1.1 Consultation & project development with the communities so as to fulfil the conditions of gaining their Free, Prior and Informed Consent (FPIC) for the implementation of a forest carbon project

Awareness-raising campaigns, critical to building the foundations of the "Informed" aspect of FPIC, have provided communities the background to understanding forest carbon projects. This has occurred through a village outreach tour in cooperation with BV's Education and Health programmes, with targeted messaging in 11 villages of the BOA project area, and 15 villages in AAB.

Consultation at the national-level occurred in November 2013 (attached Annex 2) to confirm the appropriate application of the UN-REDD FPIC standard to our projects. Local and regional support will be sought through a workshop in AAB in May 2014 and BOA in July 2014. Primary regional consultations occurred for BOA in November 2013, as detailed in Annex 8 (attached).

FPIC campaigns to explain the full implications of carbon projects to local communities will be underway throughout the remainder of 2014 at the village-level within our project sites. We envision that community facilitators, trained by BV, will oversee a voting system where villages provide consent to develop forest carbon projects (or not).

We do not expect to hit our target of gaining the FPIC of all communities in the first quarter of Year 3 (Y3). This has been due to delays starting the project in Ambaro-Ambanja, capacity problems with our partner organisation Honko for the MH project, and a late start at the BOA project site. We expect to gain preliminary FPIC from communities by the end of 2014, and continue the FPIC process for the lifetime of our projects.

Activity 1.2 Detailed analyses of land tenure and use rights of the potential mangrove areas with both the government cadastral services and the local communities; and resolution of conflicts

Traditional tenure regimes have been obtained for each project site through participatory mapping and mangrove zoning has been established with local communities in AAB (Annex 9). No major conflicts were detected at the community level and a few minor conflicts were solved during community meetings as part of the mangrove zoning process in AAB. For the identification of conflicts between traditional and official tenure, the Plan Local d'Occupation du Foncier (PLOF) was obtained in December 2013 is being compared with project area boundary, with only one case concerning conservation status of a mangrove area of 107 ha.

There is no existing PLOF for the Velondriake LMMA, and tenure is being evaluated through participatory means (complete for 11 villages) (attached Annex 10) and consultations with the Regional Department of Development (DDR) for Toliara. The conflict resolution process will follow that stipulated in environmental and social safeguard plan (PSSE) for the Velondriake LMMA, once it is finalised in 2015.

Conflict resolution processes for land disputes will be addressed at each site with regional and national authorities. Due to significant difficulties in obtaining land ownership information from local authorities, this activity has been delayed and is now expected in Y3.

Activity 1.3 Establishment of legal user and carbon rights for community members participating in the project

An analysis of legal mechanisms for obtaining use and management rights over mangroves is currently being finalised (see draft in Annex 11). To secure legal mangrove user rights, our projects are using the two available legal mechanisms.

In AAB, mangrove user rights will be obtained through management transfers (Transfer de Gestion des Resources Naturels - TGRN, GELOSE Law, 1996). Following the establishment of mangrove

management plans and revision of dinas (local legislations), TGRN renewals will occur after the reevaluation of local management committees (CLBs) by the Regional Forestry Services (DREF) in May 2014. This will secure legal mangrove user rights for the next three to ten years for the five CLBs in the pilot site.

In BOA, where community user and carbon rights are being secured through Madagascar's Protected Areas Act, the management plan (PAG) and PSSE for the Velondriake LMMA were presented to the board of the System of Protected Areas for Madagascar (SAPM) in October 2013. An updated PAG (attached Annex 12), along with an added section on mangrove management (attached Annex 13) will be re-submitted to the SAPM for finalisation at the end of 2014, coinciding with the Plan Vivo project schedule.

Honko is working with local communities in the MH area to renew their TGRN, which expired in June 2013. While the community has secured funding for these activities, the renewal process has been delayed due to a delay in receipt of funds, which the DREF requires before conducting the renewal.

The completion of this activity has been delayed due to the complex legal framework governing mangrove management in Madagascar. Every possible action will be taken to establish tenure rights according to available mechanisms before the end of Y3.

Output 2. Communities have established mangrove A/R, SFM and conservation areas; and are competently managing these areas

Activity 2.1 Establishment of community management plans, zonings and sustainable harvest quotas

In AAB, 1800 ha of protection, 1885 ha of controlled harvesting and 2195 ha of reforestation areas have been delineated through participatory mangrove zoning and were officially endorsed by communities during validation meetings (Annex 14). Sustainable harvest quotas couldn't be defined in Year 2 due to lack of capacity of the local forestry services in sustainable quota evaluation and calculation.

In BOA, participatory mapping of timber use (attached Annex 15) and other natural resources (attached Annex 16) was completed from October through January 2014 in 11 villages. Using this information, strategies and sustainable forest management zoning will be validated, in the form of a community-led design, from May to June 2014.

This follows our planned timing for this project, to have zoning of SFM, A/R, and conservation areas validated and enacted in Y3.

Activity 2.2 Establishment and maintenance of mangrove nurseries by female teams

A nursery of 1,000 *Avicennia marina* plants has been established and is maintained by a women's association in Maherivaratra (Annex 17). Planting is scheduled in June 2014 when seedlings will be 4 months old.

Classification and pre-zoning to establish eligible areas for reforestation and restoration, and reforestation in BOA, will occur in June and July 2014.

For MH, the local community association has established an *A. marina* nursery which has been operating since January, 2014.

Activity 2.3 Mangrove planting and maintenance of seedlings by female teams

In AAB over 6 ha of mangrove have been planted using direct planting of mangrove seedlings by community volunteers since June 2013, from which BV monitors about 2 ha on a monthly basis (Annex 18). Between June 2013 through March 2014, the number of women associations volunteering to do reforestation every two weeks increased from one to three.

Building on the AAB experience, the first mangrove planting will be conducted in BOA in October 2014 following the identification of reforestation sites.

Output 3.Communities are producing sustainable charcoal and timber

Activity 3.1 Training of the community participants in sustainable harvesting and improved management; initial timber harvesting according to sustainable quotas and planned rotations

In AAB, taxes on mangrove timber products for user rights have been revised as part of the locallydeveloped laws (dina) revision process in March 2014 with one pilot CLB board trained to use a tax toolkit. Implementation of the tax monitoring system in the four remaining CLBs is planned in May 2014. Sustainable timber harvest quotas will be established from October 2014 to February 2015 and quotas will enter in force in May 2015 following trainings for CLB members in quota-tax toolkit use. In BOA, and in cooperation with BV's sustainable fisheries programme, dina trainings were held in two key villages (Lamboara and Vatoavo) to trial awareness-raising about existing dina pertaining to mangrove.

Monitored harvesting is expected to occur at AAB in Y3, although this activity is behind schedule by two quarters due to delays in mobilising communities. In BOA, trainings on dina pertaining to mangroves will be held in tandem with the community-led design plans in November 2014.

Honko has conducted training for sustainable forest management in all five of the villages within their project area in December 2013, and establishment of a monitoring and zoning plan is currently underway by Honko personnel.

Activity 3.2 Training & production of charcoal using improved kilns; continued technical support

In AAB a study on 27 kilns carried out by two Ecole D'application Des Sciences Et Techniques Agricoles Et De La Promotion Rurale (EASTA-PRO) D'Ambanja students in October 2013 showed that the current conversion yield (dry mass of charcoal/dry mass of wood) of local mangrove charcoal production is between 11% and 19% (Annex 19). A similar study on a larger sample would be necessary to assess whether there is a significant margin for improvement, improved production technique yield ranging between 14% and 20%. The study suggests that the main improvement to current practices is the lengthening of wood drying period prior to carbonisation. The results of the study were disseminated to charcoal producers in November 2013 and possible technical improvements explained. Giving the current legislation banning mangrove charcoal production, the project has re-oriented its strategy toward establishing the feasibility of alternative fuelwood plantations. A study will be undertaken by a Master's student from Yale University from May to July 2014 to identify potential energetic woodlot sites and species. The project is currently recruiting a Master degree ESSA-Forêts student who would follow up with this study from July to December, 2014 to carry out a detailed technical and financial feasibility study of alternative fuel wood plantations.

In BOA, charcoal is not produced using mangroves, only in the adjacent dry forest in close proximity to mangroves (attached Annex 15). While the importance of fuel efficiency has not yet been established for reducing deforestation here, BV has been approached by a Swiss non-profit solar energy development NGO, Solar Energy Development Association (ADES) to co-finance access to fuel-efficient stoves to isolated villages in the project area (Annex 20). We are currently considering the feasibility of this option to reduce deforestation in the project area.

At one other of our Blue Forests' project sites, Belo sur Mer (Figure 1), charcoal production using mangroves has recently started (February 2014) in the village of Lovobe. We are currently monitoring this situation to see if the trend will continue and poses a significant threat to the region.

The legal framework for working with charcoal has led to a change in the existing proposed timeline on this activity. We expect to have a strategy for reducing overharvest and illegal charcoal production, active at our project sites, before the end of Y3.

Output 4: The carbon stocks and harvestable timber of the community mangroves have been measured and are being accurately monitored

Activity 4.1 Development of a measurement & monitoring plan which meets the requirements of the selected approved methodology for the generation of carbon offsets

We are currently collating all the methodologies used to establish carbon baselines in our project sites and working with the Toolkit for Ecosystem Service Site-based Assessments (TESSA – see Section 4) and EAFPES to develop a standardized measurement and monitoring plan that will meet the VCS Project Standards v.3.0 and Plan Vivo Foundation Standards, 2013. The methodology is expected to be released in July 2014.

In BOA, monitoring plans for carbon stocks, socioeconomic and biodiversity indicators will be released as a draft Technical Specifications (TS) in November 2014, based on concept models developed in 11 villages (Annex 21). Students from ESSA-Foret and IHSM are currently establishing biodiversity (Annex 22) and socioeconomic baseline (Annex 23) indicators which will also be incorporated into monitoring plans. Carbon emission reductions estimates will be calculated based on the methodology used by the Plan Vivo project Mikoka Pamoja from Gazi Bay, Kenya.

Due to staff shortages, this activity will now be completed in Y3.

Activity 4.2 Creation & training of female monitoring teams in the use of appropriate forest inventories, carbon stock measurements and monitoring protocols

Following the release of our standardized measurement and monitoring methodology, community carbon stock inventory trainings will be carried out in AAB from August to September 2014.

In BOA, a workshop was held for 12 women on 4 - 9 August 2013. Women were selected during village meetings in Ankindranoke and Vatoavo, two villages in the BOA neighboring a permanent mangrove reserve where carbon stock measurements were conducted (Annex 24). The methodology for carbon stock measurements was based on the Centre for International Forestry Research (CIFOR) methodology for mangrove carbon stock measurement. Additionally, two female community-based monitors (CBMs) were trained in the use of GPSes and navigation (attached Annex 25).

Activity 4.3 Stock measurements, continuous monitoring and analysis of the data; integration into management plans; and continued technical support & quality control by BV scientists

A community carbon stock database has been developed and training of community members at both AAB and BOA project sites will be undertaken in late-2014.

In AAB, existing carbon stock data from 2012 and 2013 have been consolidated and a final campaign will be conducted in 2014. These data will then be used for comparison with data collected by community-based monitors.

In BOA, preliminary carbon stock estimates are based on 6 plots conducted with community teams in August 2013, and also on existing data from 2008 and 2009 field surveys. A second campaign is planned to occur between July and October 2014, involving the same women trained in August 2013, who will act as community ambassadors for building teams in eight other villages in the BOA and lead teams in conducting carbon stock monitoring and peer-to-peer learning.

This activity is behind schedule due to staff shortagse, but detailed planning has been established to ensure the achievement of this output within the project's timeframe.

Output 5. The requirements for a forest carbon project that will generate carbon offsets are fulfilled

Activity 5.1. Consultation with the government & Designated National Authority (DNA) in the project development; gaining of DNA support for the project

National-level consultations occurred in Antananarivo in October 2013 with the DNA, DCC, GT-MRV, ONE, and the Interministerial Committee on the Environment (CIME) (attached Annex 2). Each nationallevel actor was provided with a briefing of the project, a printed French fact sheet (English version provided in attached Annex 1), and "Accuse de Reception" which is signed and kept on file by BV as proof of their involvement in the project. Follow up consultations with these stakeholders were carried out in March 2014 to update them on the project's advancement. Additionally, a consultation process was established with each individual authority to gain national-level support for the project as it develops.

In AAB, following the recommendations of DREF and DRPRH, as well as the national REDD+ Coordinator, a regional consultation workshop will be held in Ambanja in May 2014.

In BOA, consultations with all regional authorities (DREF, DRPRH, DDR, IHSM, and MNP) and project partners occurred in November 2013 (attached Annex 8), with follow up consultations planned for July 2014, prior to the submission of the PIN to the Plan Vivo Foundation.

Activity 5.2. Production of a Project Idea Note (PIN) and business plan based on actual monitoring; submission to investors / funders

To-date we have prepared one final PIN (MH – submitted with Darwin Y1 report) and two draft PINs and one business plan are in preparation.

In AAB PIN production was severely delayed due to the significant amount of work necessary to analyse deforestation drivers, define the project area and design robust leakage management activities, the latter requiring substantial data collection and analysis, as well as to assess the project's financial viability and additionally. We also faced staff shortage as the NW Coordinator was in charge of both pilot site activities and PIN development. To address this issue, a site manager is currently being recruited and detailed planning established to release the PIN in October 2014.

Five first year MBA students from Tuck Business School at Dartmouth College in Hanover, USA, visited our project site in the Tsiribihina Delta in March 2014 and met with our project staff in Madagascar to gather data over a ten-day period (Annex 7). Their work will provide a financial model for mangrove REDD+ in May 2014. This model will act as a basis to establish the financial model for AAB. We are currently advertising for a Tuck summer intern, through the Tuck GIVES programme, to complete the

financial model and business plan for AAB. Through Pure Leapfrog, the AAB business model development process will also receive technical guidance from Andreas Arvanitakis, an experienced carbon finance expert.

A PIN for the BOA is expected to be submitted for evaluation to the Plan Vivo Foundation in July 2014 (attached Annex 26). This project has already received the attention of carbon credit resellers, who are awaiting the release of the PIN (See section 8. Sustainability). We expect to follow a simple business model for this project given the small-scale of expected emissions reductions achievable by the project, and attract a single investor to conduct a pilot sale of credits, pending evaluation by the Plan Vivo Foundation.

The MH PIN has been evaluated by the Plan Vivo Foundation with only minor revisions required and the project is ready to be registered. Our administering partner NGO, Honko, has faced funding and human resource shortfalls which have delayed project activities on the ground; however we are currently revisiting a workplan for this project following the recent addition of new staff and acquisition of funding by Honko.

5.3 Production of monitoring reports and a draft project design document

In AAB, the start date of leakage management activity implementation of the full-scale REDD+ project, for which no funding has been secured yet, will condition the submission date of the PDD and first monitoring report for project validation and verification against the VCS standard. Thus, planning has been established to prepare a draft PDD by May 2014. The final PIN released in January 2015 will be used to raise funding so as to implement the leakage management activities, project carbon monitoring, and support completion of the PDD.

A schedule for deliverables has been established by our project team for the BOA Plan Vivo project and is currently under review by the Plan Vivo Foundation to streamline the submission process (attached Annex 26). We expect to release a first monitoring report in January 2015 based on enforcement and monitoring of community-led design plans occurring between October and December 2014. A PDD and TS will be finalised and submitted to the Plan Vivo Foundation, pending approval by authorities and successful results of our first monitoring report, in April 2015.

3.2 **Progress in carrying out project activities**

Output 1. We are in the process of securing rights for about 16,000 inhabitants over 5,880 ha of mangrove forests in AAB through GELOSE, and for 7,300 inhabitants in the Velondriake LMMA over 1,360 ha of mangrove forests in BOA through the creation of a protected area.

Output 2. In AAB, an *A. marina* nursery has been established and over 6 ha of mangrove have been reforested on Year 2. While this is much lower than the 750 ha in proposal, local tide conditions don't allow for doing reforestation more than twice a month (on a voluntary basis, one village can reforest 0.3 ha of mangrove per month). In addition, for sustainability reasons the project decided to rely exclusively on community volunteers, and thus depends greatly on the social dynamic in each village. The clear definition of reforestation zones, totalling 2195 ha across the five CLBs, will allow for more focused and efficient community reforestation efforts in Y3. Clear management plans have been established in 1 of 3 sites and are currently under development for the BOA. In AAB, 1,800 ha of mangroves are now under conservation and 1885 ha are under controlled harvesting regime. Quotas will be established on Y3 to ensure the sustainability of mangrove harvesting.

In cooperation with BV's aquaculture programme, a sustainable management plan for mangroves will be developed through the remainder of 2014 in partnership with Madagascar's Ministry of Forests. This project will be undertaken to ensure the sustainable expansion of aquaculture activities as an alternative livelihood without negatively impacting adjacent mangrove ecosystems.

Output 3. While sustainable mangrove charcoal production faces significant barriers, an in-depth study on alternative fuelwood plantations will be carried out from May to December 2014 in AAB. A mangrove forest inventory in AAB and an on-going participatory process in BOA will allow for establishing sustainable timber harvesting quotas in Y3.

Honko have also progressed on this output by securing funding for fuel efficient stoves and planting 300 alternative fuelwood trees in the MH project area.

Output 4. Trainings of communities in carbon monitoring and formation of monitoring teams have been delayed due the amount of time required to test protocols and establish a standardized methodology to use across site. Communities will be trained in AAB and BOA following the release of the standardized methodology in July 2014. Biomass and soil carbon measurements have been taken at two of three sites

and a landmark publication released on AAB carbon stocks (see Annex 3, Table 2), with a preliminary campaign completed in BOA and further surveys planned in 2014.

Output 5. Consultation efforts in Y2 have yielded continuous interest and support from the REDD+ Coordinator, Madagascar's principal Authority on REDD+, as well as the DNA and ONE. Regional consultations are well underway and will be solidified during workshops in May and July 2014, for both AAB and BOA. Two drafts PINs exist, an AAB PIN and business plan, severely delayed due to significant preparation work, will be released in Y3. The BOA PIN will be submitted for evaluation to the Plan Vivo Foundation in July 2014. PDDs and monitoring reports are being compiled for all sites, with draft releases expected in the final year of the project.

The project is 75% into Y2, with significant progress having been made on key proposed outputs. Overall, the project is 60% on-track with planned activities for Y2 with the most significant progress achieved on outputs 1, 2 and 5. While outputs 3 and 4 have recorded less impressive advances this year, significant preparation work has been done, which will allow for reaching the project's targets in Y3. The only target the project is expected not to reach on Y3 is the reforestation of 2,500 ha of mangrove, due to both the approach adopted by the project and unrealistic targets in the proposal. The total reforested area on Y3 is not expected to exceed 40 ha.

3.3 **Progress towards the project Purpose/Outcome**

To achieve the project purpose, at each of the sites the project must: establish effective communitybased forest management; gain formal tenure and management rights for the participating communities; and carry out all of the activities specific to the forest carbon project cycle (measurement of carbon stocks estimation of emission reductions, production of project documentation, validation, verification).

The project has made concrete progress towards achieving these fundamental foundations. Across sites, progresses achieved in Y2 will enable the sustainable management of 5,880 ha of mangrove forest in Y3; and has achieved the reforestation of 6 ha of mangrove. The establishment of a tax on timber products managed through sustainable harvest quotas in AAB has the potential to provide communities within the site with revenues of between 12 Million and 14 Million Ariary annually (3,000 - 3,500 GBP) by the end of Y3. The project has also progressed further in the forest carbon project cycle: PINs will be finalised for all sites by Q3 of Y3.

While the purpose level assumption still holds true for the coastal communities to gain REDD+ financing; the project stated clearly in the proposal application that the generation of carbon income within the funding period was unlikely. Few forest carbon projects have gained formal validation and generated carbon offsets within three years. Nevertheless, at both project sites, we are on target to achieve fully developed carbon projects within four to five years, in keeping with most forest carbon projects.

In keeping with logframe, the project has put into place certain of the key building blocks for communities to be able to implement sustainable forestry management and have the capacity to earn money from mangrove timber and charcoal. This part of the project has come to face a barrier in that national and local laws do not fully permit communities to use mangroves for commercial gain. There is a grey area in the law, with conflicting regulations existing. The project has made extensive consultations with national and local authorities in order to clarify the regulations. This will culminate in a meeting that the project will hold in May 2014 in AAB, involving local and national authorities to gain formal consent for local communities to use mangroves to their commercial benefit.

Through addressing this barrier, and by establishing the key foundations for the generation of carbon credits, as well as the sale of timber and charcoal, the project will be able to achieve its purpose in the long term.

3.4 Goal/ Impact: achievement of positive impact on biodiversity and poverty alleviation

The goal/impact of this project is to make effective contributions in support of the implementation of the objectives of the Convention on Biological Diversity (CBD), the Convention on Trade in Endangered Species (CITES), and the Convention on the Conservation of Migratory Species (CMS), as well as related targets set by countries rich in biodiversity but constrained in resources. The sub-goal of this project is to achieve conservation of Madagascar's mangrove habitats and their associated biodiversity.

By securing mangrove areas in some of the poorest regions of Madagascar, our project directly contributes to the welfare of coastal communities in Madagascar whose livelihoods are directly dependent on mangrove forests. Simultaneously, our core project activities are building community

capacity to govern natural resources (with 7240 ha of mangrove already secured for local management, and taxes already being collected on 4600 ha of mangroves to provide sustainable financing for mangrove management) contribute directly to Madagascar's targets under the CBD for 1) the conservation and sustainable use of biodiversity, and, 2) fair and equitable sharing of the benefits from biodiversity.

As stated in the original proposal, it will not be possible to detect changes in household incomes attributable to sustainable forest management within the project lifetime (see Section 5), but baselines will be established for tracking over the long-term of the forest carbon project cycle. Similarly, it will not be possible to establish changes in biodiversity indices through the lifetime of this project, however, our projects will demonstrate significant progress on several of the CBD targets, and contribute to Madagascar's CMS action plan by protecting 7240 ha of mangrove habitat and building capacity for mangrove monitoring, management, and reforestation in Madagascar (see Section 4).

4. Project support to the Conventions (CBD, CMS and/or CITES)

Convention on Biological Diversity

Madagascar's National Strategy for Sustainable Management of Biodiversity (NSSMB) was established in 1996 under the CBD. Outputs 1 and 2 in the Darwin project contribute directly to the NSSMB objective of promoting a common welfare and ownership and involving local people in development processes. By implementing the building blocks for REDD+ projects, we are working to promote alternatives to deforestation as leakage management activities (see Section 7) and the inclusion of mangroves in Madagascar's national REDD+ strategy (see Section 2., *Government authorities*). By supporting development of the national REDD+ strategy for Madagascar, we are also directly contributing to the NSSMB goal to account for international trade (in this case for carbon credits) in biodiversity conservation.

Our mangrove reforestation efforts (see Section 3.2, Output 3) contribute directly to the Aichi Biodiversity 2020 targets of increasing forest areas in Madagascar. Additionally, the protection and monitoring of mangroves under this project directly contribute to action plans for several known threatened species in Madagascar who spend at least part of their life history (roosting, feeding or breeding) in mangroves at our project sites including Madagascar Flying Fox (*Pteropus rufus*, Vulnerable), Madagascar Fish Eagle (*Haliaetus vociferoides*, Critically Endangered), Sawfish (*Pristidae spp* Critically Endangered), Squatheaded Hammerhead Shark (*Sphyrna mokarran*, Endangered), Hawksbill Turtle (*Eretmochelys imbricata*, Critically Endangered), and Madagascar Teal (*Anas bernieri*, Endangered). To account for the long-term contributions of our projects to biodiversity conservation, baselines have already been established for the Velondriake LMMA according to the Community, Climate, and Biodiversity (CCB) Standards (Annex 22) and are under completion for AAB.

Our project actively engages with the focal point for the CBD, the DIE at Madagascar's ONE, by providing data and regular updates on project activities (attached Annex 2). We collaborate with the UN and BirdLife International on TESSA on an ongoing basis and so-far, through a kick-off training workshop in April 2013, application of this toolkit at the BOA project site, and presentation of the results to TESSA partners in the UK in February 2014 (Annex 27). This work (detailed in this blog) contributes directly to the CBD goal of evaluating the economic value of biodiversity by clearly demonstrating the net economic value of mangrove ecosystems.

Convention on Trade in Endangered Species

Because our project is focused on the trade of non-tangible materials (i.e. carbon sequestration and fishery support services), our project is not directly linked to Madagascar's national CITES action plan. However, in the long-term, mangrove monitoring programmes and management plans will account for international regulations stipulated in CITES and forest monitoring will account for the tracking of trade in endangered species within our project areas.

Conservation of Migratory Species of Wild Animals

The CMS action plan in Madagascar focuses on the Sooty Falcon (*Falco concolor*, Near Threatened) and Eleanora's Falcon (*Falco eleonorae*, Least Concern). Both species winter on Madagascar's west coast, and have been observed in the mangroves of the southwest by our project staff. Our work contributes directly to the action plan for their conservation under CMS by promoting local engagement in conservation and protecting mangroves as part of their habitat. As our projects adhere to CCB Standards, eventual biodiversity monitoring programmes at our project sites will contribute to national efforts at monitoring population trends of these species.

5. Monitoring, evaluation and lessons

To improve efficiency in tracking the progress of the project, we have developed a project monitoring document which clearly details the status of activities against those planned within the project logframe. While detailed workplans are still upheld at the site-level and reviewed on a monthly basis, project monitoring documents are updated every three months to reflect progress, identify issues, and devise solutions associated with project activities.

In early-2014 intermediate conservation targets were established, and a "results tracker" is now used as an efficient method of measuring progress towards these goals and our longer-term objectives (attached Annex 31). As stated in our proposal, changes in some indicators will not be possible to measure beyond the baseline state within the project lifetime, and we have begun to devise proxies for ensuring the project is making progress towards the broader conservation outcome.

Our indicators, which allow us to monitor progress towards the Purpose/Outcome, are detailed in the Results Tracker, and are a combination of indices, % areas, numbers of people, and numbers of carbon documents prepared as part of this project. The column "Method" on the results tracker shows how each indicator will be measured, and with what frequency.

We also assume that by achieving Outputs 3, 4, and 5, we will make effective contributions to the overall project purpose/outcome.

In 2014 Blue Ventures is addressing its monitoring and evaluation strategy with the intention of conforming all project impact assessment to the Open Standards for the practice of Conservation (CMP 2013). We intend to build on and improve the current results tracker by refining our conservation targets and indicators to ensure they are effective at measuring long term and short term impacts. Establishing indicators and monitoring procedures in an integrated fashion with other BV projects, surveys, and record-keeping activities will also ensure that the costs of monitoring and evaluation for any single project are kept to a minimum.

6. Actions taken in response to previous reviews (if applicable)

Feedback on the previous report requested further information on communication and coordination at the national level to ensure project activities are coordinated and draw on each other, which is provided below.

The Blue Forests project funded by Darwin has largely occurred at the site-level in AAB (Northwest), and the BOA, and MH area (Southwest). The northwest and southwest areas each has a Project Coordinator which oversees higher-level communication and operations at project sites, and an overall Programme Manager works at the national-level to oversee communication between Project Coordinators and BV staff based in Madagascar's capital, Antananarivo.

Communications between sites include regular phone communication both on an as-needed and at least weekly basis. Furthermore, the overall Programme Manager prepares and submits a weekly update regarding activities at the site-level which is shared and reviewed by the entire team. Both northwest and southwest teams share methodologies for socioeconomic surveys and participatory resource mapping, educational materials between sites, and collaborate on materials used for regional and national consultations across sites.

To ensure integration of project activities, all available project staff travelled to BV Conservation's annual conference in Andavadoaka from 12 - 15 August to learn and share experiences with other marine conservation projects in BV's portfolio. Following the conference, the northwest and southwest project teams met for two weeks to exchange skills across team staff and discuss higher-level project planning through Y2 of the project. Finally, cross-project integration is conducted for the Darwin project within BV by ensuring that support is provided by staff working directly on the Darwin project to other BV staff working on similar activities. A staff development and integration week was held from 3 - 7 February 2014 to develop communications strategies and common workplans between the Darwin project team and the Locally Managed Marine Areas (LMMA) team in Velondriake (attached Annex 28).

Overall, coordination between teams is met through regular communications and oversight by both sitelevel and national Coordinators, and punctuated integration sessions (two per year) where project staff meet to track progress and develop collaborative workplans.

7. Other comments on progress not covered elsewhere

The project exit strategy has been significantly refined this year through its recognition as the only national mangrove REDD+ initiative in the R-PP, thus putting it in the best position to feed the National preparation process and receive additional funding in the future.

Main difficulties encountered by the project include:

- Significant cost of tenure analysis
- Lengthy process for the establishment of protected area and renewal of management transfers, slowing down the securing of community forest user and carbon rights
- The lack of understanding of mangrove forest natural dynamics which is causing uncertainties on the spatial dynamic analysis required by VCS carbon standard. We are currently exploring collaboration with the Kenyan Marine and Fisheries Research Institute to study these dynamics in-depth.

The main risk faced by the project is associated with the attractiveness of the carbon credits for sale to investors and market capacity to absorb REDD+ credits in the medium term. To mitigate this risk, the project is pursuing high valued CCB standard together with VCS in AAB and a financial model is being established to test the sensitivity of the project to market demand.

8. Sustainability

On the ground, mangrove conservation meets a strong demand from communities, as the increased demand for mangrove reserves in BOA and the large proportion of communities who have decided to put mangroves under conservation regimes in AAB (30%) testifies.

Lastly, BV is working toward integrating REDD+ into existing sustainable financing strategies for LMMAs across its sites and through the Mihari network of LMMAs by raising communities, staff and NGOs' awareness on REDD+ during internal (attached Annex 28) and external workshops (attached Annex 5). In addition, BV has applied for co-financing to structure CLB boards in AAB into a CLB Federation and develop its capacity in REDD+, with the aim of creating grass-roots support and advocacy for community-based mangrove REDD+.

There is promising evidence that these projects will be attractive investments and thus leverage sustainable financing for mangrove conservation in the long-term. The project intends to build on its recent inclusion in the R-PP, as the only mangrove REDD+ project, to catalyse National Authorities and potential investors' interest along Y3, so as to ensure continuous support and funding to this initiative. The high biodiversity value and levels of endemicity in our project sites has been highlighted through observations, biodiversity baseline research, and discussions with Durrell Wildlife Conservation Trust. Additionally, the International Institute for Economic Development, and other carbon credit resellers at the Plan Vivo stakeholders meeting in October 2013 expressed interest in the unique value of our projects and their relation to coral reef conservation (mangroves mediate nutrient and mitigate pollution delivery to corals).

9. Darwin Identity

The Blue Forests project is a large programme also funded by the Waterloo and MacArthur foundations in addition to Darwin (attached Annex 1). However the BOA site stands as a distinct Darwin project and is communicated as such to local and international partners.

The project communicates on Darwin by now putting the Darwin logo on the header of the Blue Forests project newsletter (on next release in April 2014), which is sent twice a year to eighty partner NGOs, national, regional and local Authorities as well as Research Institutes. Furthermore, the Darwin logo is included on all maps and reports prepared for the BOA project site.

Within Madagascar, organisations likely to be familiar with the Darwin Initiative include other international conservation NGOs.

10. Project Expenditure

Table 1 project expenditure during the reporting period (1 April 2013 – 31 March 2014)

Project spend since	2013/14	2013/14	Variance	Comments
last annual report	Grant	Total actual Darwin	%	(please explain significant

	(£)	Costs (£)	variances)
Staff costs (see below)			
Consultancy costs			
Overhead Costs			
Travel and subsistence			
Operating Costs			
Capital items (see below)			We requested to carry forward this line to FY14-15 which was approved prior to this report.
Others (see below)			Equipment required that was not originally budgeted for.
TOTAL			

11. OPTIONAL: Outstanding achievements of your project during the reporting period (300-400 words maximum). This section may be used for publicity purposes

I agree for the Darwin Secretariat to publish the content of this section (please leave this line in to indicate your agreement to use any material you provide here)

In AAB fishery and mangrove threats concept models have been finalised in the thirteen fokontany of the pilot site from October to December 2013 and socio-economic data have been collected on a representative sample of 528 households from July to September 2013. Fishery concept models served as a basis to establish rules on authorized fishery gears during the dina revision process. Based on the socio-economic survey data, a typology of production system is currently being produced and will be released in July 2014. It will be used to refine leakage management activity design and will constitute the socio-economic baseline of the REDD+ project.

Annex 1. Report of progress and demeterients against Logical Framework for Financial Fear 2019-2014	Annex 1:	Report of progress and achievements against Logical Framework for Financial Year 2013-2014
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Project summary	Measurable Indicators	Progress and Achievements April 2013 - March 2014	Actions required/planned for next period
Migratory Species (CMS), as well as biodiversity but constrained in resou Sub-Goal Conservation of Madagascar's mangrove	CBD), the Convention on Trade in he Convention on the Conservation of related targets set by countries rich in rces.	Mangrove management plans to reduce deforestation and conduct reforestation (6 ha to-date) are well underway, contributing to the Aichi 2020 targets of increasing areas of protected forest and the CMS action plan for the protection of habitat for migratory birds. Ongoing work at the national level with the CBD focal point, the DIE, and work with TESSA and the EAFPES directly contributes to the CBD targets of evaluating the economic value of ecosystems in Madagascar.	
Purpose/Outcome Coastal communities are earning income from the sale of carbon credits, charcoal and timber that they supply through mangrove reforestation and sustainable forest management, so enabling them to improve their livelihoods and conserve mangrove forests in the long term.	 Increase in household revenues (male, female) from charcoal, timber and carbon credits* Area (ha) of restored and conserved mangrove forest that is under effective community management 	 Community management plans were established for 5880 ha of mangroves in Ambaro and Ambanja Bays (AAB) Tax on mangrove products are collected in 2 of 5 management associations in AAB (about 4600 ha of mangroves) (pilot collected 400,000 MGA over 3 months) In BOA,1360 ha of mangrove and 1200 ha of spiny forest in protected area 	 Establishing sustainable harvesting quotas for mangrove timber products in AAB Enforcing management plans and tax payment through the implementation of mangrove patrols in AAB Establishing community forest management units, harvesting zones, and monitoring teams in BOA
Output 1. Communities have clear and uncontested land and user rights to their customary mangrove areas; and give their Free Prior & Informed Consent to use these areas for a forest carbon project	 Area (ha) with secure title (RFRs and GCFs) Number of individuals (male, female) with formalised user & carbon rights 	In partnership with the Ministry of Environme establish user rights through a mixed model protected area status which should grant ca respective project areas. In AAB, restructuring and capacity building of evaluation of their management contract by term management rights over 5880 ha of ma Communaute Locale de Base (CLBs) (16,00 In Velondriake, a protected area validation e	of both management transfers and rbon ownership to communities within the of local community associations and re- DREF (May 2014) will secure the long- angrove to local communities in five 00 people).
		carbon rights to an estimated 7,300 people people in the target site (BOA).	in the velondriake LMMA) and 3,000

Project summary	Measurable Indicators	Progress and Achievements April 2013 - March 2014	Actions required/planned for next period
Activity 1.1 Consultation & project development with the communities so as to fulfil the conditions of gaining their Free, Prior and Informed Consent (FPIC) for the implementation of a forest carbon project		AAB: A regional workshop is planned for Ma stakeholders, and community representative negative impacts of REDD+ projects in fulfill on REDD+ are planned following validation 2014.	es to present the potential positive and ment of FPIC. Two village outreach tours
		BOA: Consultations carried out at the village level for 7 villages to identify stakeholders a rural appraisals and mangrove conservation	nd explain the objectives of participatory
		Village-level meetings to explain the implica move forward on PES agreements for Plan (attached Annex 26).	
Activity 1.2 Detailed analyses of land tenue mangrove areas with both the government communities; and resolution of conflicts		Tenure regimes have been obtained from participatory mapping at all project sites through focus groups sessions and are delineated in Google Earth (GE) (BOA tenure mapping is shown in attached Annex 10).	
		AAB: Areas under management by the five CLBs are mapped in GE and comparison with the PLOF (official tenure map) is on-going to ensure no private land overlaps with this area. Conflict resolution process took place during the mangrove zoning campaign, no major conflicts were recorded.	
		BOA: Consultant on land tenure analysis ou cadastral record is not publicly available for ownership rights in the context of project con conflict resolution over land disputes, in con Plan and the PSSE for the Velondriake LMM	BOA. Our next step is to assess land mmunities and define a process for text of southern Regional Development
Activity 1.3 Establishment of legal user and carbon rights for community members participating in the project		AAB: Dina (local legislations) were revised a Transfer (TGRN) renewal is in process and requiring evaluation by DREF in May 2014. CLB board capacity development and struct Sustainability).	to be completed for the 3/5 CLBs BV applied for co-financing to continue
		BOA: The PAG and PSSE associated with protected area status were presented to the SAPM in October 2013. Integration sessions (attached Annex 28) brought attention to the need for more technical information on mangrove management in the management plan, which have been developed and will be resubmitted for finalisation at the end of 2014 (attached Annex 13).	
		The TGRN process in MH has been delayed due to funding shortfalls, but is expected to be underway later this year.	

Project summary	Measurable Indicators	Progress and Achievements April 2013 - March 2014	Actions required/planned for next period
Output 2. Communities have established mangrove A/R, SFM and conservation areas; and are competently• Area of mangrove planted • Area of mangrove under SFM a conservation regimes		AAB: Over 6 ha of mangrove reforested to date, 1800 ha delineated under conservation with 1885 ha under a controlled harvesting regime through participatory zoning (Annex 14; Annex 18).	
managing these areas	 % of sites implementing clear management plans and which have sustainable harvesting quotas & rotations set according to output 4 	BOA: Zones, quotas and rotations will be de Plan Vivo community-led design plan. A stra of mangroves will be drafted with communiti General Assembly in June 2014.	tegy for preventing unlawful destruction
	 Participative monitoring shows a decrease in uncontrolled harvesting of mangroves 	A management plan for use of mangroves for with completion expected in November 2014 at the national level.	
Activity 2.1 Establishment of community management plans, zonings and sustainable harvest quotas		AAB: Prezoning of mangrove and mangrove completed (Annex 14).	e regulation (dina) revisions was
		BOA: A quota system for timber extraction or being secured for evaluation against our par Annex 15) which is currently under validation	ticipatory maps of timber use (attached
		A pre-zoning exercise will occur in May 2014 BOA based on participatory mapping (attach models (Annex 21).	
Activity 2.2 Establishment and maintenance of mangrove nurseries by female teams		AAB: One mangrove nursery with 1,000 Avia maintained by the 12 members of a woman planned in June 2014 (Annex 17).	
		BOA: Classification and pre-zoning to estab restoration of natural forest cover in Bay of A 2014.	
		MH: The CLB has established an operationa 2014.	al Avicennia marina nursery as of January
Activity 2.3 Mangrove planting and maintenance of seedlings by female teams		AAB : 6 ha reforested and 2 ha regularly mo record plant's height and number of leave.	nitored to calculate mortality rate and
		BOA: First planting and maintenance of mar Bay of Assassins.	ngroves to occur from October 2014 in

Project summary	Measurable Indicators	Progress and Achievements April 2013 - March 2014	Actions required/planned for next period
Output 3. Communities are producing sustainable charcoal and timber*	 All participants have been trained in SFM and improved charcoal production % of sites where timber is harvested according to the sustainable quotas & rotations defined in the management plans Number of improved charcoal production units in place 	 Ad in Overall, working with charcoal producers still presents a significant legal challed but much research has been conducted to establish levels of production and a where charcoal is driving mangrove loss (all 3 communes in AAB and 1 comm forest in Velondriake). In AAB, a forest inventory will allow for establishing sus timber harvesting quotas and an in-depth study on alternative fuelwood planta will take place from May to December 2014. In BOA, concept models (Annex 21) and stakeholder identification (attached A 29) have identified the primary drivers of mangrove loss. A monitoring strategy timber use will be outlined in the Technical Specification (TS) for Plan Vivo will this process. Mangrove charcoal production has started as of February 2014 at another Blu Forest project site, Belo sur Mer, and we are currently investigating the extent agents of this activity. Honko and the MH CLB have secured funding for fuel efficient stoves and plar 300 trees for leakage management. 	
Activity 3.1 Training of the community participants in sustainable harvesting and improved management; initial timber harvesting according to sustainable quotas and planned rotations		AAB: This activity was delayed due to signif forest inventory by the local forestry service mid-2014 in partnership with DREF, with BV	s, DREF. The inventory will take place in / leading the methodological design.
		BOA: Implementation of a forest zoning plan and a carbon offsetting strategy are to occu community monitoring and enforcement tea	r in October through December 2014 with
		MH: Training in sustainable forest managen conducted by Honko in 5 villages in Decem	
Activity 3.2 Training & production of chare technical support	coal using improved kilns; continued	This activity was altered to monitoring charc management plan, as per our change reque 2013.	
		AAB: The result of a BV study involving two that current mangrove charcoal production y similar study on a larger sample would be n significant margin for improvement, as impro- between 14% and 20%. The study suggests practices is the lengthening of drying period	yields are between 11.4% and 18.9%. A ecessary to assess whether there is a real oved production technique yield range s that the main improvement to current
		BOA: Our participatory research confirmed	charcoal production in dry forest (attached

Project summary	Measurable Indicators	Progress and Achievements April 2013 - March 2014	Actions required/planned for next period	
Output 4. The carbon stocks and harvestable timber of the community mangroves have been measured and are being accurately monitored• % of community management units that have been trained to take carbon measurements and have a functioning monitoring team• Biomass and soil carbon 		 Annex 15) and identified the provision of alternative fuel sources as a strategy to reduce deforestation (Annex 21). The NGO ADES has approached us for co-financing (Annex 20) and we are currently considering how this fits with our project strategy. We are currently developing a standardised monitoring methodology across sites through collation of existing carbon stock monitoring methods used (CIFOR, VCS) and collaboration with TESSA and EAFPES to develop simplified monitoring tools which can be compared for accuracy against scientific measurements in Y3. In AAB, data were consolidated and a publication released in Forests presented results (See Annex 3, Table 2), representing the world's first carbon stock estimates for Madagascar's mangroves. In BOA, an initial carbon stock monitoring campaign and collation of existing data and preliminary land use and land cover classification will be completed June 2014 and secondary carbon stock campaign on Bay of Assassins planned for August through September 2014. A total of eight (four in southwest, four in northwest) BV staff are trained in monitoring methodology for carbon stocks in mangroves, aiming to develop and roll out a standardised monitoring methodology based on VM0009 (VCS carbon monitoring methodology) across sites. 		
		BOA: Participatory mapping, preliminary cla analysis, and concept models will provide te plan to use a conservative methodology for following the verified Plan Vivo project Mikol Biodiversity and socioeconomic monitoring p from ESSA-Forets (Annex 22) and IHSM (A approach.	chnical backstop for monitoring plans. We calculating carbon stocks for mangroves ko Pamoja in Gazi Bay, Kenya. blans are well underway with students	
Activity 4.2. Creation & training of female monitoring teams in the use of appropriate forest inventories, carbon stock measurements and monitoring protocols		In AAB, a monitoring methodology, standardised based on VCS and Plan Vivo project requirements, will be tested with BV staff and community members starting from August 2014.		
		BOA: A community monitoring team of 12 w Velondriake LMMA was created in August 2 classroom and two-day practical workshop of stock estimation with the two CBMs conduct (attached Annex25). A three-day field mission completed in BOA 5 - 9 August 2013 (6 plot	013. The team conducted a one-day on use of CIFOR methodology for carbon ting an extra day of training on GPS use on for monitoring carbon stocks was	

Project summary	Measurable Indicators	Progress and Achievements April 2013 - March 2014	Actions required/planned for next period
Activity 4.3 Stock measurements, continuous monitoring and analysis of the data; integration into management plans; and continued technical support & quality control by BV scientists		A community carbon stock database was de stocks carried out in BOA in August 2013. T this database is planned to occur in the seco both AAB and BOA in late 2014.	raining of community members in use of
		AAB: Carbon stock data collected in 2012 a A final carbon stock monitoring campaign w VCS standard requirements.	
		BOA: Preliminary carbon stock calculations consolidated with August 2013 carbon stock measurements will be used as proxies for el parameters from planned mapping classifica	measurements. Consolidated missions reductions estimates based on
Output 5. The requirements for a forest carbon project that will generate carbon offsets are fulfilled	The government & Designated National Authority (DNA) support the project & are involved in its development A Project Idea Note (PIN) &	National level consultations have been completed at all sites and a Meetin in attached Annex 2 has been established to document all progress on go involvement and our participation in the establishment of a REDD+ stratego national-level.	
	 A Project Idea Note (PIN) & business plan prove the viability of the carbon project A draft Project Design Document (PDD) is written 	The project has been well-received by nation has been established. The national REDD+ AAB project site for the regional workshop i	Coordinator will conduct a visit to our
		Two draft PINs exist, both with release expension AAB and BOA respectively. PDDs and more sites, with draft releases expected in the pro-	itoring reports are being compiled for all
Activity 5.1. Consultation with the government & Designated National Authority (DNA) in the project development; gaining of DNA support for the project		National-level consultations conducted for a ONE, and CIME in November 2013 (attache process was established and project update 2014.	ed Annex 2). A national level consultation
		The REDD+ Coordinator will attend the regination Annex 30) and a two-day field visit in the AA	
		Regional-level consultations were conducted MNP for BOA in November 2013, with author the project (attached Annex 8). A follow up y finalising the BOA PIN.	prities expressing preliminary support for
Activity 5.2. Production of a Project Idea Nactual monitoring; submission to investors		Overall, we have produced one final PIN ar final PIN are in preparation with release exp	

Project summary	Measurable Indicators	Progress and Achievements April 2013 - March 2014	Actions required/planned for next period	
		In AAB, PIN production was delayed due to with accuracy the project area and leakage substantial data collection and analyses, financial viability and additionally. The aim is	management activities, the latter requiring as well as assessment of the project's	
		Five students from Tuck business school visited Madagascar (Annex 7) from 8 – 20 March 2014, to meet with project staff and collect data to build a financial model (to be released May 2014) which will act as the basis of the business plan for AAB. We are currently advertising for a Tuck intern to complete the AAB business plan.		
		A draft PIN has been prepared for the BOA Plan Vivo project and is expected to be ready for submission to the Plan Vivo Foundation in July 2014, pending approval by government authorities.		
		The MH PIN (submitted with the Darwin Y project with the Plan Vivo Foundation. How due to funding and human resource challeng	vever, the project is currently on standby	
5.3 Production of monitoring reports and a	draft project design document	The release of the draft PDD for AAB is sch in May 2015.	eduled in February 2015, and final PDD	
		 A deliverables schedule for the BOA Plan V 26): Draft TS (monitoring plan) to be submit 2014 Draft PDD and first monitoring report pla Final TS and PDD expected for submiss 	ted for review to Plan Vivo in November anned for release in January 2015	

Annex 2 Project's full current logframe

Project summary	Measurable Indicators	Means of verification	Important Assumptions
Goal:	l		l
), the Convention on Trade in Endangered by countries rich in biodiversity but constrained
Sub-Goal:			
Conservation of Madagascar's mangrove habitats and their associated biodiversity	 Deforestation rates for natural forest habitats of the coastal districts of western Madagascar % of charcoal and timber that comes from the deforestation of natural forests of the coastal districts of western Madagascar 	 Existing CI-MEFT-USAID National deforestation analysis for 1990-2000-2005; present BV & literature analyses of mangrove deforestation; future national deforestation analyses that CI- MEFT plan to undertake Existing CI, USAID & WWF reports on timber & charcoal consumption in coastal areas; future participative appraisals & research 	
Purpose			
Coastal communities are earning income from the sale of carbon credits, charcoal and timber that they supply through mangrove reforestation and sustainable forest management, so enabling them to improve their livelihoods and conserve mangrove forests in the long term.	 Increase in household revenues (male, female) from charcoal, timber and carbon credits* Area (ha) of restored and conserved mangrove forest that is under effective community management 	timber (from participative appraisals done to establish mangrove management plans &	 Sustainable mangrove timber and charcoal is competitive with those from other sources Adequate, long term market demand exists for such carbon offsets (or strong donor commitment to REDD+ continues)

Project summary	Measurable Indicators	Means of verification	Important Assumptions
Outputs* 1. Communities have clear and uncontested land and user rights to their customary mangrove areas; and give their Free Prior & Informed Consent to use these areas for a forest carbon project	 Area (ha) with secure title (RFRs and GCFs) Number of individuals (male, female) with formalised user & carbon rights Decrease in the incidence of forest exploitation by outsiders 	 Government cadastral records Land titles and community conservation contract agreements Project GIS Community management association records 	 No significant land disputes exist so that uncontested ownership can be established If there are land disputes, these can be resolved The legal formalisation of user and carbon rights using existing instruments does not marginalise women
2 . Communities have established mangrove A/R, SFM and conservation areas; and are competently managing these areas	 Area of mangrove planted Area of mangrove under SFM and conservation regimes % of sites implementing clear management plans and which have sustainable harvesting quotas & rotations set according to output 4 Participative monitoring shows a decrease in uncontrolled harvesting of mangroves 	 Participative maps in community management contracts; project GIS of community management areas Planting & maintenance schedule; project GIS of planted areas Community monitoring data books 	 Residents can forego immediate exploitation of mangroves long enough to begin earning from A/R and SFM The community participants agree to robust enough management plans Growth cycles of target mangrove tree species allow adequate production of seedlings within project schedule
3. Communities are producing sustainable charcoal and timber*	 All participants have been trained in SFM and improved charcoal production % of sites where timber is harvested according to the sustainable quotas & rotations defined in the management plans Number of improved charcoal production units in place 	 Training workshop reports Carbon monitoring for each site; verification of rotational harvesting by BV project staff; checked monthly Existence & use of improved kilns within the target sites as verified by BV staff; project reports 	The combination of individual ownership of A/R and SFM plots with the collective management associations is effective in preventing unsustainable harvesting

Project summary	Measurable Indicators	Means of verification	Important Assumptions
4. The carbon stocks and harvestable timberof the community mangroves have been measured and are being accurately monitored	 % of community management units that have been trained to take carbon measurements and have a functioning monitoring team Biomass and soil carbon measurements have been taken at all sites Quality controls by BV scientists show less than 10% error in the carbon stocks measurements for all sites % of sites for which complete monitoring reports are archived in a central project database 	 Training workshop reports & Standard Operating Procedures Carbon stock calculations Quality Control reports Project archive; 1st measurements taken by month 9; monitoring checked monthly 	Adequate project finance can be gained from carbon revenues or other sources to support long term monitoring
5. The requirements for a forest carbon project that will generate carbon offsets are fulfilled	 The government & Designated National Authority (DNA) support the project & are involved in its development A Project Idea Note (PIN) & business plan prove the viability of the carbon project A draft Project Design Document (PDD) is written 	 Formal letter of support from the government (DNA) for the project Project Idea Note & business plan submitted to investors Draft Project Design Document 	 A suitable approved methodology specific to mangroves is available by 2014 (this process has already begun, and a CDM A/R methodology has been recently approved) Formal government support to the project is not jeopardized by changes in government

a 5-year verification cycle and can take several years to be developed; 1st generation planted trees will take several years to attain a harvestable size

Annex 3 Standard Measures

Please expand and complete Table 1: new projects should complete the Y1 column and also indicate the number planned during the project lifetime. Continuing project should cut and past the information from previous years and add in data for the most recent reporting period. Quantifyproject standard measures over the last year using the coding and format from the Darwin Initiative Standard Measures (see website for details: <u>http://darwin.defra.gov.uk/resources/</u>) and give a brief description. Please list and report on relevant Code Nos. only. The level of detail required is specified in the Standard Measures Guidance notes under 'definitions' column. Please devise and add any measures that are not captured in the currentlist. Please note that these measures may not be a substitute for output level objectively verifiable indicators in the project logframe.

Code No. Established codes	Description	Year 1 Total	Year 2 Total	Year 3 Total	Year 4 Total	Total to date	Number planned for reporting period	Total planned during the project	Brief Description Year 2
1B	Number of people to attain PhD qualification (in host country)	0	0			0	0	1	One PhD student proposal accepted
2	Number of people to attain Masters qualification (MSc, MPhil etc)	0	0			0	0	2	Two master students currently preparing final defense (expected June 2014)
3	Number of people to attain other qualifications (ie. Not outputs 1 or 2 above)	0	1			1	0	0	On staff member is undertaking GIS training to become a certifiedwith the Society for Conservation GIS
4C	Number of postgraduate students to receive training	4	5			9	4	0	Five business students trained in REDD+ basics and opportunity cost calculation
5	Number of people to receive at least one year of training (which does not fall into categories 1-4 above)	0	1				1	2	One staff member conducted one year of training in use of TESSA
6A	Number of people to receive other forms of education/training (which does not fall into categories 1-5 above)	2 wom en 2 men	12 wom en			14 wom en 2 men	20 women 10 men	30 women 30 men	12 women trained in carbon stock monitoring
6B	Number of training	1	2			3	2	5	One week of

Table 1 Project Standard Output Measures

Code No. Established codes	Description	Year 1 Total	Year 2 Total	Year 3 Total	Year 4 Total	Total to date	Number planned for reporting period	Total planned during the project	Brief Description Year 2
	weeks to be provided								training on carbon monitoring, one week of staff training on Excel and workplanning
8	Number of weeks to be spent by UK project staff on project work in the host country	2	2			4	2	18	One week spent by financial director, one week spent by conservation programmes manager
9	Number of species/habitat management plans (or action plans) to be produced for Governments, public authorities, or other implementing agencies in the host country	0	1			1	1	1	One mangrove management plan finalised for one CLB in AAB
10	Number of individual field guides/manuals to be produced to assist work related to species identification, classification and recording	0	0			0	0	1	
11A	Number of papers to be published in peer reviewed journals	0	1			1	1	3	One publication in Forests, one in Madagascar Conservation and Development
12A	Number of computer based databases to be established and handed over to host country	1	0			1	0	0	Data provided to GT-MRV in December 2012
14A	Number of conferences/seminars/ workshops to be organised to present/disseminate findings	2	1			1	3	0	One workshop organised in Morondava (15-18 April 2013)
14B	Number of conferences/seminars/ workshops attended at which findings from Darwin project work will be presented/	0	2			2	2	3	Two presentations at ESSA- Forêts symposium, one

Code No. Established codes	Description	Year 1 Total	Year 2 Total	Year 3 Total	Year 4 Total	Total to date	Number planned for reporting period	Total planned during the project	Brief Description Year 2
	disseminated.								presentation to TESSA in UK
15A	Number of national press releases in host country(ies)	0	1			2	1	3	Press release for Forests publication
15B	Number of local press releases in host country(ies)	1	1			2	1	6	Press release for Forests publication
15C	Number of national press releases in UK	0	1			1	1	3	Press release for Forests publication
16A	Number of newsletters to be produced	2	3			5	3	6	Two Darwin newsletters and one national newsletter
16C	Estimated circulation of each newsletter in the UK	3000 peopl e	6000 peopl e			9000 peopl e	6000 people	10 000	Two articles in the Darwin newsletter
18D	Number of local TV programmes/features in UK	0	1			1	1	0	Featured in Plan Vivo Standards Community PES video: <u>http://www.you</u> <u>tube.com/watc</u> <u>h?v=cTe452A</u> <u>K2uQ</u>
19A	Number of national radio interviews/features in host county(ies)	0	0			0	0	3	
19C	Number of local radio interviews/features in host country(ies)	0	0			0	0	8	
23	Value of resources raised from other sources (ie in addition to Darwin funding) for project work	£401 ,800	0			£368 ,159	0	£300,000	Funding secured from MacArthur and Waterloo Foundation in Y1

Table 2

Publications

Туре				
(eg journals, manual, CDs)	Detail (title, author, year)	Publishers (name, city)	Available from (eg contact address, website)	Cost £
Factsheet*	Blue Forests: Leveraging sustainable financing to protect critical coastal ecosystems and	BV Conservation, London, UK	http://www.blueventures.org/images/p dfs/fact_sheets/BVFactsheet_BlueFor ests(LowRes).pdf	£300

	livelihoods. Kate England, Garth Cripps, Trevor Jones, Aude Carro. April 2013.		
Blog	A meeting of minds: Blue Carbon in the Tsiribihina Delta. Kate England. May 2013.	BV Conservation, Toliara, Madagascar	blog.blueventures.org/a-meeting-of- minds/
Newsletter	Starting up Blue Forests in Northwest Madagascar. Aude Carro. June 2013.	Darwin DEFRA	http://darwin.defra.gov.uk/newsletter/ April2013newsletterFINAL.pdf
Peer- reviewed Editorial	Shining a light on Madagascar's mangroves. Trevor G. Jones. July 2013.	Madagascar Conservation and Development, Madagascar.	http://www.blueventures.org/images/a rticles/publications/reports/Jones.T- mangroves2013.pdf
Tri-annual newsletter	Lettre d'information du projet Blue Forests #1. Aude Carro. July 2013	BV Conservation, Ambanja, Madagascar	http://www.blueventures.org/images/p dfs/blue_forests/Blue-Forests- NL1%20April-June2013.pdf
Blog	Longing for a carbon project. Sylvia Paulot. August 2013.	BV Conservation, Toliara, Madagascar	blog.blueventures.org/longing-for-a- carbon-project/
Blog	Blue Forests: Progress made and looking forward. Trevor G. Jones. August 2013.	BV Conservation, Vancouver, Canada	blog.blueventures.org/blue-forests- progress-made-and-looking-forward/
Newsletter	The time is now for science and markets to build on social momentum for mangrove restoration in Madagascar. Kate England. October 2013.	Darwin DEFRA	http://darwin.defra.gov.uk/newsletter/J uly2013newsletter.pdf
Peer- reviewed Publication	Ecological Variability and Carbon Stock Estimates of Mangrove Ecosystems in Northwestern Madagascar. Trevor G. Jones, Harifidy R. Ratsimba, Lalao Aigrette, Garth Cripps, Adia Bey. January 2014.	Forests, Basel, Switzerland	http://www.blueventures.org/images/a rticles/publications/reports/Jones_201 4_forests-05-00177.pdf
Press Release	Landmark study shows the true value of Madagascar's mangroves. Trevor G. Jones. January 2014.	BV Conservation, London, UK	http://www.blueventures.org/news- room-latest-news/landmark-study- shows-the-true-value-of- madagascars-mangroves.html
Newsletter	Conducting participatory mapping in southwest Madagascar to contextualize past and present natural resource-use and plan for future needs. Kate Dewar, Trevor G. Jones. February 2014.	Darwin DEFRA	Submitted article Jan 2013, location TBD
Magazine article	From BC's Gulf Islands to Madagascar's mangroves. Trevor G. Jones. Spring 2014.	Branchlines, University of British Columbia, Canada	http://www.blueventures.org/images/a rticles/publications/reports/Branchline s_Spring_2014.pdf
Blog	Using the Right Tools for the Job: My experiences with TESSA. Lalao Aigrette. March 2014.	BV Conservation, Toliara, Madagascar	http://blog.blueventures.org/right- tools-job-experiences-tessa/
Blog	Theory of Change: Communities think critically about pathways to sustainable management. April 2014. Cicelin Rakotomahazo.	BV Conservation, Toliara, Madagascar	http://blog.blueventures.org/theory- change-communities-think-critically- pathways-sustainable-management/

Annex 4 Onwards – supplementary material (optional but encouraged as evidence of project achievement)



Annex 3: Image of the front page of one of the Convention de Stage with ESSA Forêts.



Annex 4: Raymond presenting results of crabon stock monitoring in Ambaro-Ambara Bay at the ESSA-Foret Symposium on 11 December, 2013.

	CONVENTIO	N DE COLLA	DOBATION	
	CONVENTIO	Concernant	BORAHON	
	« La mise en œuvre d Mangroves de Man	'un projet « Blue (Carbon » dans i nina » - Phase I	e Paysage I
Entre,				
Occident	amme du WWF à Ma tal, sis au Près lot 11 M é lughes, Représentant Ré	5 Ter, Antsakaviro	101, représenté p	n oar Monsieur
				D'une part,
Et.				
North Ro	tures Conscrvation, ad, London, N7 9DP scutive Director, ci-apré	Royaume Uni, re	présenté par Dr.	39-41 Alasdair
				D'autre part,

Annex 6: Image of the front page of the Convention de Collaboration with WWF Madagascar.



Annex 7: Tuck Business School students, Sarah Mahlab and Rob Franklin, and Mangrove Conservation Officer for Blue Ventures, Sylvia Paulot, interview mangrove loggers in Borengeny, Tsiribihina Delta.



Annex 9. Snapshot of participatory mapping results from AAB in Google Earth.

Management options of mangroves in Madagascar in the context of community-based mangrove REDD+ projects

Forests of mangroves in Madagascar are governed by a complex legal framework. First, regarding their physical character, mangroves fall under both forestry and fishery regulation. Under forestry regulation, mangroves are clearly defined as forests¹. Under fishery law, mangroves are designed to be subject to specific fishery regulations. Two mangrove areas in the northwest of the country are designated as Biologically Sensitive Shrimp Zonesⁱⁱ. . Concerning their ownership, due to their geographic location which is within twelve miles from shore to the sea and between the twenty five meters bandwidth from shore to the land, they are qualified as part of the public domain of the stateⁱⁱⁱ. In addition to that, as naturally grown forests, the forestry regulation also recognizes them as property of the state^{iv}. However, despite this public property, it is not uncommon to see private ownership in some mangrove areas^{vii}. An important specificity of mangroves is their qualification as sensitive areas^{vii}which are defined as an areawith specific value and fragility towards human activities and eventsviii.Due to this complex legal status, the management options of mangroves are not easy to establish. Based on the analysis of the existing legal framework and discussion with the national authority in charge - the Department of Natural Resource Valorization department of natural resource valorization (DVRN) at the Ministry of Environment - we will present the possible management options that are open for mangrove conservation, the current policy governing REDD+ projects and the legal barriers to sustainable management.

I - Different management options and requirements for mangroves

1. Management options

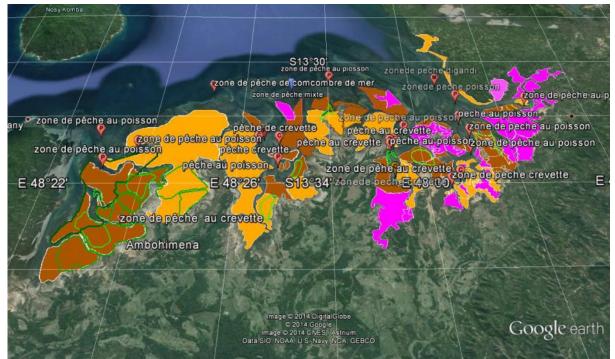
1. Acquiring land tenure

In order to have full use of resources, acquiring ownership is the most secure mean to exploit mangroves. However, mangroves being the property of the state, the options are limited to the following.

i. A concession on the land

The concession gives the grantee the right to exploit the land and the related resources on this land for the duration of thirty years renewable^{ix}. The concession will be subject to some specifications (*"cahier de charges"*) in which the obligations of the grantee and the state are explained. In the context of mangrove conservation sustainable use, the concession will

Annex 11. Snapshot of first page of draft analysis of legal mechanisms for obtaining use and management rights over mangroves.



Annex 14. 1800 ha of protection (brown), 1885 ha of controlled harvesting (orange) and 2195 ha of reforestation areas (pink) have been delineated through participatory mangrove zoning.



Annex 17. Dimantoid women's association women preparing seedling pots by filling them with a mixture of mud and sand.



Annex 18. Google Earth image with overlay showing areas of outline of mangrove areas now replanted.



Annex 19. Front page of the study carried out by EASTA-PRO students on charcoal kilns.



Annex 20. Letter from ADES to co-finance fuel-efficient stoves in BOA.



Annex 21. Community member presenting the results of their concept model to other community members on 21 January, 2014, in the Bay of Assassins.







UNIVERSITE D'ANTANANARIVO ECOLE SUPERIEURE DES SCIENCES AGRONOMIQUES DEPARTEMENT DES EAUX ET FORETS

Mémoire de fin d'études en vue de l'obtention du diplôme d'Ingénieur en sciences agronomiques

OPTION EAUX ET FORETS Promotion : HINA

MISE EN PLACE D'UN ETAT DE REFERENCE DE LA BIODIVERSITE EN VUE DE L'IMPLANTATION D'UN PROJET CARBONE FORESTIER DE MANGROVES A VELONDRIAKE (Tuléar, Sud-Ouest de MADAGASCAR)

Année : 2009-2014

Présenté par : ANDRIATSITOHAINA Ravosaina Ntsiva Nirinimanitra

Soutenu le 24 Avril 2014

Devant le Jury composé de :

Président : Mr RAMAMONJISOA Bruno, Professeur titulaire

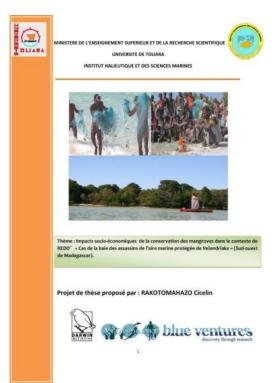
Rapporteur : Mmc RABENILALANA Mihajamanana, Docteur-Ingénieur

Co-Rapporteur : Mme Kate ENGLAND, Chercheur de Blue Ventures

Examinateur : Mme RAVAKA Annick, Assistante de recherche



Annex 22. Front page of thesis by ANDRIATSITOHAINA Ravosaina Ntsiva Nirinimanitra on the biodiversity of BOA mangrove forests.



Annex 23. Front page of PhD thesis proposal by RAKOTOMAHAZO Cicelin on socioeconomic baseline of BOA mangroves.



Annex 24. Sylvia, Blue Ventures Mangrove Conservation Officer, shows female participants how to measure diameter at breast height (dbh) of mangroves in Isony Mangrove Reserve in Bay of Assassins.





Assessment of financially exploited ecosystem services in the Velondriake locally-managed marine area (LMMA), SW Madagascar



RAVAOARINOROTSIHOARANA Lalao Aigrette

Cambridge, March 2014



Annex 27. Snapshot of first slide of presentation by Blue Ventures' Lalao Ravaoarinorotsihoarana to TESSA partners.

Checklist for submission

	Check
Is the report less than 10MB? If so, please email to <u>Darwin-Projects@ltsi.co.uk</u> putting the project number in the Subject line.	NA
Is your report more than 10MB? If so, please discuss with <u>Darwin-</u> <u>Projects@ltsi.co.uk</u> about the best way to deliver the report, putting the project number in the Subject line.	✓
Have you included means of verification? You need not submit every project document, but the main outputs and a selection of the others would strengthen the report.	✓
Do you have hard copies of material you want to submit with the report? If so, please make this clear in the covering email and ensure all material is marked with the project number.	No
Have you involved your partners in preparation of the report and named the main contributors	v
Have you completed the Project Expenditure table fully?	\checkmark
Do not include claim forms or other communications with this report.	