

Applicant: **Emerson, Ashley**
Organisation: **Health In Harmony**
Funding Sought: **£9,478.00**

DIR27PP\1048

Cooperative Knowledge Exchange on Reforestation & Restoration In Madagascar

Section 1 - Contact Details

PRIMARY APPLICANT DETAILS

Name Adam
Surname Burnett
Organisation Missouri Botanical Garden
Tel (Work) [REDACTED]
Email (Work) [REDACTED]
Address [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

CONTACT DETAILS

Name Ashley
Surname Emerson
Organisation Missouri Botanical Garden
Website <https://healthinharmony.org/team/>
Tel (Work) [REDACTED]
Email [REDACTED]
Address [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

CONTACT DETAILS

Name Noor
Surname Trienekens
Organisation Missouri Botanical Garden
Tel [REDACTED]
Email [REDACTED]
Address [REDACTED]
[REDACTED]
[REDACTED]

GMS ORGANISATION

Type	Organisation
Name	Health In Harmony
Phone (Work)	[REDACTED]
Email (Work)	[REDACTED]
Website (Work)	[REDACTED]
Address	[REDACTED]

Section 2 - Title & Location

Q3. Working title of the proposed Darwin project

Cooperative Knowledge Exchange on Reforestation & Restoration In Madagascar

Q4a. Host country (of proposed Partnership Project trip)

Madagascar

Q4b. If this is not the intended host country for the proposed Darwin project, please justify here

NA

Q4c. Other collaborating country/ies

No Response

Q5. Is this a resubmission of a previous scoping/Partnership application?

No

Section 3 - Partnership Project Principals & Lead Organisation Summary

Q6. Principals in Partnership Project work

Please give the details of the individuals (up to 2) who would be directly involved in the Partnership Project work – i.e. making a visit to a host country, or leading on the collaboration.

One page CVs must be uploaded below.

Details	Project Leader	2nd individual
Surname	Noortje	Mahardika
Forename(s)	Trienekens	Putra Purba

Post held	International Program Manager	Conservation Director
Organisation	Health In Harmony	Alam Sehat Lestari (ASRI)
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
Have you included an one page CV?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> Yes

Please upload one page CVs for all Principals involved in Partnership Project work as a combined PDF.

 [Mahardika Putra Purba CV 2020](#)

 19/01/2021


 16:38:23

 pdf 197.35 KB

 [Noortje Trienekens CV](#)

 18/01/2021

 22:47:32

 pdf 216.3 KB

Q7a. About the lead applicant organisation

Briefly discuss your expertise in sustainable use or conservation of biodiversity and/or development. Please refer to recent track record you have in this field. You may be asked to provide evidence of this track record.

For the past 13 years, Health In Harmony has listened to rainforest communities in Indonesia, Madagascar, and Brazil, co-designing and co-leading interventions to improve their health, livelihood, and education toward the conservation, biodiversity and the wellbeing of the rainforest. Our research and experience demonstrates that when rainforest communities lack access to high-quality healthcare and alternative livelihoods the rainforest suffers. Our solution is straightforward: listen to rainforest communities to identify the crucial drivers of deforestation, and then invest precisely in realizing these community-designed interventions.

HIH solves the multiplex problem of environmental degradation, climate change, and loss of biodiversity, attuned where science arrives at and coincides with maintained Indigenous knowledge and practice. Over a ten year period, researchers at our pilot site at Gunung Palung National Park in Indonesia showed a significant decline in common diseases such as malaria, tuberculosis, and diabetes, a 67% decrease in infant mortality, a 90% decrease in logging households, stabilization in primary forest loss, and the protection of habitat for over 3,000 orangutans (Jones et al PNAS 2020). We have seen that caring for people's health and well-being is a prescription for protecting rainforests, slowing the climate crisis, and preventing activities that could lead to future zoonotic

Q7b. Have you obtained a letter of support from the lead applicant organisation?

(If yes, please upload with the partner letters of support on the next page)

Yes

Section 4 - Project Partners

Q8. About the partner organisation(s)

Please list all the partners involved and explain their roles and responsibilities in the Partnership Project work. Briefly discuss your partner's expertise in sustainable use or conservation of biodiversity

and/or development. Please refer to recent track record they have in this field. You may be asked to provide evidence of this track record. If there is more than 1 partner organisation, you can enter the details of more partners below. Please specify which of the partners is new to the partnership.

Partner name:	Missouri Botanical Garden
Website address:	https://www.missouribotanicalgarden.org
Details of anticipated roles and responsibilities:	MBG will co-design the workshop, connect us with additional local partners, contribute to the restoration/reforestation protocol document, and provide insight and feedback as HIH develops a proposal for Round 28 Main project funding.
Expertise in sustainable use or conservation of biodiversity and/or development:	The Missouri Botanical Garden has been active in Madagascar for nearly 47 years and has had a continuous in-country presence since 1983. The past two decades have, however, seen a remarkable expansion in both the scope of our activities and the size of our local staff as we have increasingly taken a proactive role in conservation. The MBG-Madagascar Research and Conservation Program now numbers more than 60 full-time Malagasy staff members working throughout the country, currently assisted by an expatriate technical advisor, and supported and aided by six staff members based in St. Louis and Paris. In addition to maintaining our traditional focus on documenting the diversity of Malagasy plants through inventory, taxonomic revision, and information dissemination, MBG-Madagascar now directly oversees conservation activities related to the management of 13 new protected areas.
Name of main contact and post held:	Chris Birkinshaw, Restoration Curator
Letter of support submitted?	<input checked="" type="radio"/> Yes

Do you have more than one partner involved in the Partnership Project work?

Yes

2. Partner Name:	Centre ValBio
Website address:	https://www.stonybrook.edu/commcms/centre-valbio/valbio/history.php
Letter of Support:	CVB will co-design the workshop, connect us with additional local partners, contribute to the restoration/reforestation protocol document, and partner with us in Round 28 Main project proposal.

Expertise in sustainable use or conservation of biodiversity and/or development:

Since 2003 CVB has worked in Madagascar in conservation, restoration, and biodiversity proliferation. The core mission is to ensure the long-term survival of Ranomafana National Park, and other ecosystems across the tropics. CVB had encouraged environmental conservation by developing ecologically sustainable economic development programs with local villages, and provided local villagers with the knowledge and tools to improve their quality of life through projects focused on sanitation, diet, and education, and ultimately reduce poverty in the area. In addition to the conservation of the habitat of this critically-endangered lemur, CVB supports local producers of medicinal plants and essential oils, reforestation, weaving cooperatives, conservation clubs, and ecotourism, to name but a few projects.

Name of main contact point and post held:

Michael Docherty, Administrative Director

Have you included a letter of support from this organisation?

Yes

3. Partner Name:

Ambatovy

Website address:

<http://www.ambatovy.com/ambatovy-html/docs/index.php.html>

Details of anticipated roles and responsibilities:

Ambatovy will participate in the knowledge-sharing workshop and contribute to the restoration/reforestation protocol document.

Expertise in sustainable use or conservation of biodiversity and/or development:

Ambatovy is one of the most ambitious industrial undertakings in the history of Madagascar, Africa, and the Indian Ocean Region. It will soon produce 60,000 tonnes of refined nickel and 5,600 tonnes of refined cobalt every year for the next three decades. Ambatovy is positioned to become the world's biggest lateritic nickel mine. Ambatovy's goal is to create lasting prosperity for all stakeholders and contribute significantly to sustainable development in Madagascar. Ambatovy is committed to acting in a responsible manner and to working with integrity, transparency, respect and the highest ethical standards. Ambatovy has been recognized among the fewer companies aiming to achieve a no net loss and preferably a net gain in Biodiversity and Ecosystem services.

Name of main contact point and post held:

Josia Razafindramanana, PhD
Environmental Superintendent

Have you included a letter of support from this organisation?

Yes

4. Partner Name:

No Response

Website address: *No Response*

Letter of Support: *No Response*

Expertise in sustainable use or conservation of biodiversity and/or development: *No Response*

Name of main contact point and post held: *No Response*

Have you included a letter of support from this organisation? Yes
 No

5. Partner Name: *No Response*

Website address: *No Response*

Letter of Support: *No Response*

Expertise in sustainable use or conservation of biodiversity and/or development: *No Response*

Name of main contact point and post held: *No Response*

Have you included a letter of support from this organisation? Yes
 No

6. Partner Name: *No Response*

Website address: *No Response*


Details of anticipated roles and responsibilities: *No Response*

Expertise in sustainable use or conservation of biodiversity and/or development: *No Response*


Name of main contact point and post held: *No Response*

Have you included a letter of support from this organisation? Yes
 No

Please provide a combined PDF of letters of support from the lead organisation and partner(s).

 [Amabtovy Letter of Support](#)


 19/01/2021

 17:19:07


 pdf 157.46 KB

 [Missouri Botanical Garden Letter of Support](#)


 18/01/2021


 16:25:59

 pdf 343.89 KB

 [Letter of Support - CVB & Health in Harmony -
15.01.2021](#)

 18/01/2021

 16:22:59

 pdf 104.35 KB

Q9. Can you confirm that at least one of the partners have not previously been in receipt of Darwin funds from the same lead partner?

Yes

Section 5 - Justification & Concept Notes

Q10. Justification of need for a Partnership Project

Please provide written details of why alternative funding is not available from within your own organisation or from other sources. Will matched funding be provided?

In the two years since launching our programs in Manombo Special Reserve in Madagascar, listening to community members and initiating dialogues with local and international NGO's, we have come to realize the acute challenges of restoration and reforestation, not just in Manombo, but throughout Madagascar. Through conversations with other NGO's and local community organizations we have been humbled by a common lack of knowledge and expertise on reforestation and restoration in Madagascar, especially in the Manombo Forest area. A knowledge base must be cultivated and horizontally shared between organizations on the ground, working to realize the crucial work of rehabilitating and expanding forest habitats and biodiversity throughout Madagascar.

With the support of the Darwin Initiative's Partnership Project, we will travel to Madagascar and collaborate with Missouri Botanical Gardens, Centre ValBio, and Ambatovy to conduct a knowledge sharing workshop with communities in Manombo on restoration and reforestation practices. Funds for such specialized knowledge-sharing are scant and alternative funding is not available within our organization. Along with our partners, we will seek matching funds to ensure this knowledge-sharing workshop is fully realized and results in measurable steps forward, including a Main Application to the Darwin Initiative in Round 28.

Q11. Concept note for the Partnership Project

This question concentrates on the Partnership Project work and should demonstrate the objectives of the project including:

- objectives of the visit
- what work (including research, remote communications or other collaborations) has been carried out prior to applying for this project
- what work will be carried out under the Partnership Project – please see the guidance for advice on what type of activity can be funded
- evidence of the proposed partners' intentions to collaborate in your Partnership Project work

Madagascar is a global biodiversity hotspot and conservation priority. Nearly half the island's forests have been lost in the last six decades, and half of the remaining forest is within 100 meters of an edge, making it incredibly vulnerable to further degradation (Vieilledent et al 2018). Due to this urgency, HIH initiated our programming at Manombo Special Reserve in 2019 but we still have much to learn, especially since the Covid-19 pandemic seriously curtailed our impact and capacity to travel in 2020. To date, our programs at Manombo have addressed the challenge of affordable healthcare, resilient and adaptable farming techniques, and community-designed solutions to hunger. The ultimate goal is to holistically realize these efforts toward reforestation and restoration.

The objective of Health In Harmony's visit will be to animate a network of local, national and international restoration experts through a knowledge sharing event in Manombo Special Reserve in July, 2021. This applied brainstorming session will occur on sight, in the landscape, and focus on technical insights and challenges, as well as local and Indigenous knowledge of the rainforest, in respect to restoration and reforestation. The technical and anecdotal expertise acquired from this visit will be mutually beneficial for all participants and lead to a Main Project proposal for Health In Harmony with one or more of the participating partners. The output of this partnership will be the creation of a restoration agroforestry protocol based on community's best practices - this document will direct the future work of HIH and our partners, as well as local and community organization's working to realize more prosperous, holistic reforestation and restoration techniques.

We will meet with reforestation and restoration professionals from each organization, in tandem with community partners. Prior to the applications our partners have conducted the following research and actions which will be applied to the knowledge sharing:

With three decades of experience working in Madagascar, Missouri Botanical Gardens has been actively engaged in restoration, reforestation, and biodiversity conservation. This partnership proposal was initiated through a dialogue between HIH and MBG regarding reforestation/restoration protocols. MBG, a recipient of Darwin Main project funding, will provide guidance for our main proposal.

Centre ValBio, in the past year alone has planted 500,000 trees through a multiplex and interdependent program that holistically focuses on carbon capture, economic empowerment, and biodiversity. CVB Founder Dr. Patricia Wright directly supported HIH'S original assessment planning and logistics and is ready to collaborate on launching conservation initiatives in Manombo Special Reserve in the a Darwin Main project proposal.

Ambatovy, a private mining company, has had incredible success in reforestation over the past decade, as they are financially equipped to hire expertise and invest heavily in restoration. Their knowledge and toolset will be most useful given that Manombo in particular is a challenging ecosystem for restoration.

Q12. Concept note for the resultant project

This question concentrates on the full Darwin application you intend to submit after the Partnership Project and should discuss:

- the expected Outcome and Outputs of the resultant Darwin project
- how the resultant Darwin project would meet a need in the host country (and the wider region if applicable e.g. if the proposed project would be based in a UMIC)
- how the project would contribute to any or all of the Conventions and Treaties supported by Darwin, including the SDGs
- how the project will contribute to sustainable development in the country concerned
- briefly explain the proposed partner role(s) in the resultant Darwin project
- briefly the expected role of the Partnership Project travellers in the resultant Darwin project.

The resultant Darwin project will protect the rainforest of Manombo Special Reserve in Madagascar by helping vulnerable communities access the resources they need, so they do not have to destroy their ecosystem to survive. Since 2017, HIH has spoken with 644 community members using Radical Listening, a methodology to facilitate community-led and -designed solutions to complex conservation challenges. Responding to community priorities, this project will quantify, stabilize, and reverse deforestation and reduce nutritional and economic poverty for 8,027 community members through five objectives:

1. The creation and proliferation of a restoration agroforestry protocol based on community's best practices, realized through a partnership with Missouri Botanical Gardens, Centre ValBio, and Ambatovy, and others.
2. Eliminate slash-and-burn agriculture in Manombo by supporting 1,800 farmers to transition to regenerative agriculture techniques
3. Expand rainforest by 90 hectares and increase income in 90 households through agroforestry, evaluating the success of several reforestation techniques and leveraging the most successful
4. Protect Manombo Special Reserve and surrounding cropland from wildfires by supporting communities to build 60 km of firewall; analyze the fire-buffering capacity of reforested plots.

CBD: The project protects lowland rainforest and one of Madagascar's last remaining pandanus swamps. It provides habitat for the aye-aye, Jolly's mouse lemur, southern bamboo lemur, Manombo woolly lemur, greater dwarf lemur, and brown mouse lemur—all endemic to Madagascar and threatened with extinction—plus three Critically Endangered lemurs: the black-and-white ruffed, gray-headed brown, and Manombo sportive lemurs, and the endemic Malagasy poison frog. The IUCN warned that Manombo's biodiversity is in danger of extinction if slash-and-burn agriculture and wildfire are not addressed.

UNFCCC: This project will protect thousands of tons of carbon stored in the trees, swamps, and soils of Manombo Special Reserve by avoiding slash-and-burn agriculture and wildfires. Tropical forests represent 23% of the solution to keep warming below 1.5°C (Gibbs 2018). A hectare of intact tropical forest contains ~187 tons of carbon and sequesters ~0.9 tons/year (Maxwell et al. 2019), so Manombo Special Reserve is estimated to contain 1,084,600 tons of carbon and continually sequester 5,220 tons per year. Reforestation and agroforestry on heavily-degraded land will sequester even more carbon over the coming decades as trees mature.

SDGs: The solutions in this project address multidimensional poverty by recognizing that ecosystem and human wellness are inextricably linked. Regenerative agriculture training supports Goal 2 (Zero Hunger) by improving food security. Agroforestry supports Goal 1 (No Poverty) and Goal 5 (Gender Equality) by providing sustainable income and prioritizing women-led enterprises. Wildfire prevention supports Goal 2 (Zero Hunger) by protecting crops from destruction by fires. Together, these programs are powerful actions for Goal 13 (Climate Action) and Goal 15 (Life on Land) by addressing the drivers of deforestation, preventing multiple extinctions of endemic biodiversity, avoiding the carbon emissions from rainforest burning, and sequestering carbon through reforestation.

HIH will partner with CVB, MBG and Ambatovy to produce baseline vegetation maps, and refine reforestation and restoration techniques. The partnership project travelers, Noortje Trienekens and Mahardika Putra, will lead the administration and implementation of HIH's work.

Section 6 - Costs

Q13. Costs

Provide a detailed breakdown of costs to be funded by the Darwin Initiative in GBP.

	Project Leader	Second individual	Total
Airfare including travel to airport	£ [REDACTED]	[REDACTED]	[REDACTED]
Visas and other travel documents	£ [REDACTED]	[REDACTED]	[REDACTED]
Daily subsistence rate per day	[REDACTED]	[REDACTED]	
Number of days subsistence claimed (max 30 days per traveller)	[REDACTED]	[REDACTED]	
Total daily subsistence claimed (please provide details below)	£ [REDACTED]	[REDACTED]	[REDACTED]
Workshop costs (please provide details below)			£ [REDACTED]
Other costs (please provide details below)			£0.00
		Total request from Darwin (must not exceed £10,000)	£ [REDACTED]

Additional details to support the figures above

	Project Leader	Second individual
Average expected subsistence rate per day	£ [REDACTED]	[REDACTED]
Number of days subsistence claimed	[REDACTED]	[REDACTED]

Workshop costs

Please provide further details on your workshops costs (N/A if not relevant).

- Space rental for three days (estimated at £ [REDACTED])
- 3 Lunches and dinners for participants (~30 people, estimated at £ [REDACTED])
- Printing and administrative support (£ [REDACTED])
- Technological support and enhanced WiFi support (£ [REDACTED])

Covid-19 precautionary materials (PPE, masks, anti-bacterial cleaning, etc; £ [REDACTED])

Other costs

Please provide further details on Other costs e.g. subscription to communications platforms, purchase of tablets for local partners etc (N/A if not relevant).

NA

Section 7 - Timetable & Activities

Q14. Provide anticipated dates of travel (start and finish) and activities to be undertaken on your trip.

N.B.: this question is specifically about your travel plans – your dates and specific milestones during travel – NOT your timetable to Stage 1 application. Your application will be considered ineligible if this section does not specifically cover your planned Partnership Project trip.

Date	Milestone
01 July 2021	START
05 July 2021	Workshop dates and travel arrangements confirmed with partners.
07 July 2021	All local and community partners confirmed as well as in-country travel confirmed for partners.
14 July 2021	Health In Harmony travels to Madagascar.
18 July 2021	On the ground work to prepare for workshop with partners.
25 July 2021	Workshop is held on July 25-26.
07 August 2021	Ongoing follow up with partners to formalize working document on reforestation and restoration protocols.
15 August 2021	Health In Harmony departs Madagascar.
15 September 2021	First draft of formal protocol document on reforestation and restoration shared amongst partners.
30 September 2021	Health In Harmony submits Round 28 Main Funding proposal to Darwin, with Centre ValBio as partner.
<i>No Response</i>	<i>No Response</i>
<i>No Response</i>	<i>No Response</i>
30 September 2021	FINISH

Q15. In what year would you expect to submit the full Darwin project application?

Round 28

Section 8 - Certification

Q16. Certification

On behalf of the

company

of

Health In Harmony

I apply for a grant of





£9,478.00

I certify that, to the best of our knowledge and belief, the statements made by us in this application are true and the information provided is correct. I am aware that this application form will form the basis of the Partnership Project schedule should this application be successful.

(This form should be signed by an individual authorised by the applicant institution to submit applications and sign contracts on their behalf.)

- I have uploaded CVs for project principals
- I have uploaded letters of support from the lead application organisation and the partner(s)

Checked

Name	Adam Burnett
Position in the organisation	Grants Officer
Signature (please upload e-signature)	 Adam Burnett Signature  19/01/2021  17:36:05  pdf 1.02 MB
Date	19 January 2021

Section 9 - Submission Checklist

Checklist for submission

	Check
I have read the Guidance Notes for Main projects as well as the Guidance for Partnership Projects and am satisfied that this concept would be eligible for a main project application.	Checked

I have read, and can meet, the current Terms and Conditions for this fund.	Checked
I have provided anticipated start and end dates for my Partnership Project trip.	Checked
I have checked that my budget is complete and correctly adds up.	Checked
My application has been signed by a suitably authorised individual (clear electronic or scanned signatures are acceptable).	Checked
I have included one page CVs and letters of support as required.	Checked
I have checked the Darwin website immediately prior to submission to ensure there are no late updates.	Checked
I have read and understood the Privacy Notice on GOV.UK.	Checked

We would like to keep in touch! Please check this box if you would be happy for the lead applicant (Flexi-Grant Account Holder) and main traveller/project leader (if different) to be added to our mailing list. Through our mailing list we share updates on upcoming and current application rounds under the Darwin Initiative and our sister grant scheme, the IWT Challenge Fund. We also provide occasional updates on other UK Government activities related to biodiversity conservation and share our quarterly project newsletter. You are free to unsubscribe at any time.

Checked

Data protection and use of personal data

Information supplied in this application form, including personal data, will be used by Defra as set out in the latest copy of the Privacy Notice for Darwin, Darwin Plus and the Illegal Wildlife Trade Challenge Fund available [here](#). This Privacy Notice must be provided to all individuals whose personal data is supplied in the application form. Some information, but not personal data, may be used when publicising the Darwin Initiative including project details (usually title, lead organization, location, and total grant value) on the GOV.UK and other websites. Information relating to the project or its results may also be released on request, including under the 2004 Environmental Information Regulations and the Freedom of Information Act 2000. However, Defra will not permit any unwarranted breach of confidentiality nor will we act in contravention of our obligations under the General Data Protection Regulation (Regulation (EU) 2016/679).