

Applicant: **Pagella, Tim**
Organisation: **Bangor University**
Funding Sought: **£9,884.00**

DIR27PP\1046

Gender sensitive diversification of smallholder cocoa systems in Lampung Indonesia

Section 1 - Contact Details

PRIMARY APPLICANT DETAILS

Title Dr
Name Tim
Surname Pagella
Organisation Bangor University
Website (Work) <https://www.bangor.ac.uk/natural-sciences/staff/tim-pagella/en>
Tel (Work) [REDACTED]
Tel (Mobile) [REDACTED]
Email (Work) [REDACTED]
Address [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

GMS ORGANISATION

Type	Organisation
Name	Bangor University
Phone (Work)	[REDACTED]
Email	[REDACTED]
Website	[REDACTED]
Address	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

Section 2 - Title & Location

Q3. Working title of the proposed Darwin project

Gender sensitive diversification of smallholder cocoa systems in Lampung Indonesia

Q4a. Host country (of proposed Partnership Project trip)

Indonesia

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

Not Applicable

Q4c. Other collaborating country/ies

Not Applicable

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	Pagella	McDonald
Forename(s)	Tim	Morag
Post held	Researcher/Lecturer in Forestry	Professor of Ecology and Catchment Management
Organisation	Bangor University	Bangor University
		
		
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.

 [Principal CVs](#)

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 pdf 112.08 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.

The research of conservation scientists at Bangor University span the breadth of the discipline from the ecology of threatened species to the institutional and economic aspects of conservation. We maintain a

world-class reputation for research. Bangor University achieved a very strong performance in our subject areas in the 2014 Research Excellence Framework (REF) assessment of UK universities with more than 80% of our research was rated as being at least 'internationally excellent' with more than 25% being 'world leading'. We work globally and have been involved with a number of successful Darwin applications. Bangor also very strong links to development particularly, with respect to this work, in relation to the sustainable management of agroforestry systems, gender and working with local knowledge systems.

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:	Barry Callebaut
Website address:	https://www.barry-callebaut.com/en-GB
Details of anticipated roles and responsibilities:	Barry Callebaut will provide access to smallholder cocoa systems in Lampung and the associated extension staff. Barry Callebaut will feed in its experiences of moving towards more sustainable cocoa production from other areas of Indonesia and other cocoa producing countries New to the partnership
Expertise in sustainable use or conservation of biodiversity and/or development:	Barry Callebaut is the world's leading manufacturer of chocolate & cocoa products. Barry Callebaut's recent Forever Chocolate report (2016) (https://www.barry-callebaut.com/en-GB/group/forever-chocolate-our-plan-make-sustainable-chocolate-norm), highlighted the important role for sustainability for the company. Barry Callebaut plan to make sustainable chocolate the norm by 2025, by focusing on sustainable cocoa and chocolate supply chains. Forever Chocolate is a commitment to have more than 500,000 cocoa farmers in their supply chain lifted out of poverty, eradicate child labour from their supply chain, become carbon and forest positive and have 100% sustainable ingredients in all of their products. Indonesia is a vital area for this activity given the growing demand for cocoa in this region.
Name of main contact and post held:	Martin Gilmour, Global Head Agronomy, Barry Callebaut Sourcing
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:	IPB University
Website address:	ipb.ac.id
Letter of Support:	Country and Workshop coordinator, to help coordinate and organise activities nationally, coordinate with all partners and team members to enable the field work activity and manage the workshop. Also support communication with decision makers and main stakeholders. Provide expertise on cocoa and silviculture practices in Indonesia. New to the partnership
Expertise in sustainable use or conservation of biodiversity and/or development:	IPB University has a strong Faculty of Forestry and Environment, and also Faculty of Agriculture that actively support the government of Indonesia defining policy for sustainable use or conservation of biodiversity and development nationally. Experts of the university also actively engaged in various research and capacity building on the sustainable use of bioresources in collaboration with local, national, and international agencies, including work in the cocoa sector.
Name of main contact point and post held:	Dr Irdika Mansur, Associate Professor/Senior Lecturer and Researcher
Have you included a letter of support from this organisation?	<input checked="" type="radio"/> Yes

3. Partner Name:	SEAMEO BIOTROP
Website address:	www.biotrop.org
Details of anticipated roles and responsibilities:	Land cover study coordinator; will gather information on the current condition of land cover and biodiversity at the suggested cocoa plantations using drone and ground truthing. SEAMEO BIOTROP will host the workshop; providing the meeting room, internet support, and accommodation to support workshop activities. New to the partnership

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

As a Southeast Asian Regional Centre on Topical Biology, the Centre is active in exploring the biodiversity of natural resources and developing strategies for their sustainable management. The Centre has a good laboratory for GIS/Remote sensing, supported by experienced researchers. Currently, researchers are developing high precision and smart agriculture characterisation tools in collaboration with government agencies and private companies, especially oil palm plantation. This expertise would be potentially used for cocoa plantations. SEAMEO BIOTROP has a reputation as a community learning park, where communities learn about various applied technologies to improve their livelihood, which, amongst other, includes the production of edible mushrooms, aquaculture, hydroponics, plants producing essential oil. Some of these applied technologies could be relevant for income diversification of cocoa farmers.

Name of main contact point and post held:

Mr Armaiki Yusmur, MSi. Head of Laboratory of Biosystem and Landscape Management

Have you included a letter of support from this organisation?

Yes

4. Partner Name:

University of Lampung

Website address:

unila.ac.id

Letter of Support:

The Site Coordinator, FGD coordinator, and liaison with local authority/policy makers
New to the partnership

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

University of Lampung has played important roles in sustainable use and conservation of biodiversity, especially within forest and mangrove systems in Lampung. Experts in the University are skilled in the social aspects of biodiversity management, particularly conflict resolution. Recently staff actively helped the government to solve conflicts between local communities and forestry agency due to the unmanaged expansion of smallholder farming systems into high value forest areas. Dr Sumario is the prominent scientist at the University directly involved in conflict resolution. The university has strong links with local cocoa farmers and associated extension staff in Lampung.

Name of main contact point and post held:

Prof. Suharso, Ph.D. - Vice Rector for Academic, Cooperation, and Information Technology

Have you included a letter of support from this organisation?

Yes

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).

 [Combined Support letters](#)

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 pdf 2.31 MB

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?

Bangor University does not have capacity for funding for project development at this time. However, we are contributing matched funding by not charging indirect costs nor for all of the staff time required. In addition, the overseas partners, who will receive the majority of the funding for their work in country doing the initial scoping activity are unable to progress this without external support (but are also not charging any staff time or indirect costs either other than to support field activity).

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

We are seeking to develop a Darwin proposal that integrates sustainability principles (primarily by enabling diversification) into the future management of smallholder cocoa systems in Lampung province in Indonesia.

Note: Due to ongoing uncertainties associated with COVID-19 the activity for this project has shifted from a proposed visit to the central activity being a weeklong workshop; with some supporting scoping activity to provide the detail required to enable a robust submission.

In preparation for the partnership bid we have had regular meetings with the proposed project partners. This has included reviewing the recent literature on cocoa production systems and additional conversations with actors active in this research area in Indonesia (for example, World Agroforestry) primarily to understand current knowledge gaps and context sensitivity of existing research. The funding will now be used to host a weeklong half day (to account for time differences) workshop to support three activities. We anticipate 20 people attending per activity period, although different audiences are invited for each activity.

- The first activity will be focused on site selection and local knowledge. Barry Callebaut extension staff have identified three potential field sites (Padasuka, Bulok, and Pulau Panggung – all different distances from the main market in Bandar Lampung) where initial scoping activity will occur (see below). This will finalise the locations for main project activity and feed into ongoing discussions around the gender elements.
- The second phase will be focusing on collating current knowledge of best practice for diversification (and associated extension activity) building on the initial literature review. This will be pan-Indonesian in scope drawing on the experience of researchers working in Sulawesi and other areas. This may also include Barry Callebaut staff from West Africa to share experiences of their recent innovations.
- The final phase of the workshop will aim to build support for the project from local policy makers primarily to ensure our project objectives align with current initiatives to support livelihoods and feed directly into local and international biodiversity commitments.

IPB will act as the in country coordinator, responsible for hosting and managing the workshop, and liaising with local and national policy makers, and preparing reports.

The workshop will be preceded by two scoping activities. The first will be a series of focus group discussions at the three target villages. This will include local agriculture agencies, extension workers, the chiefs of Cacao Farmer groups, the chiefs of the Women Farmer Groups and cocoa traders. This work will be led by University of Lampung and supported by Barry Callebaut extension staff.

The second activity will focus providing an initial scoping study to capture variations in land cover across the 3 sites. This will provide an overview of the existing plant/tree diversity in the cacao plantations and demonstrate current space utilisation to plan further intervention to increase biodiversity and diversification of incomes. This work will be led by SEAMEO BIOTROP.

Proposed partners intentions to collaborate are documented above and captured in letters of support.

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.

Cocoa production in Indonesia is in decline due to competition from other crops (eg. oil palm), poor yields, declining soil fertility, poor planting material, and attacks from pests and diseases (mainly Cocoa Pod Borer insect pest, and Vascular Streak Dieback fungus). However, chocolate consumption in South East Asia continues to grow. There is a need to develop improved cocoa cropping systems in Indonesia which improve farmer income, stimulate diversified farms, increase biodiversity, and empower women.

Barry Callebaut is the global number one player in chocolate and cocoa and is present in one out of 4 of all chocolate and cocoa products consumed around the world. Barry Callebaut have substantial interests in Indonesia and are interested in developing more sustainable cocoa farming systems in the province of Lampung in Sumatra (where much of their activity is focused). The full project aims to produce a tested framework that would enable sustainable farmer diversification activity, that was both sensitive to ecological and market contexts and strongly integrated gender dimensions to ensure the sustainability of smallholder cocoa farming systems in Lampung province. Barry Callebaut's farm Services business operation works with 190 000 farmers mostly in Lampung (Sumatra) and Sulawesi. There is strong potential to out scale this activity more widely through Barry Callebaut extension activity.

The project activity is focused on smallholder cocoa farmers, with a particular focus on female farmers. Cocoa farming is the principal income for an estimated 1 million Indonesian families. Developing sustainable cocoa systems will help to meet their livelihood needs directly by providing sustainable production systems and indirectly through the broader suite of ecosystem service benefits provided by more biodiverse agroecological systems. The proposed activity will also seek to increase the resilience of smallholder farmers to climate change by strengthening their adaptation capacity.

This proposed project would contribute directly to meeting Indonesia's commitments to the Convention on Biological Diversity (CBD). The Government of Indonesia ratified the CBD through Act No. 5, 1990 concerning the conservation of living resources and their ecosystems. At the wider scale, the project aligns with the SDGs, both broadly in terms of linking development and environmental protection, and directly through objectives that will contribute directly to SDGs 1 & 2 (through agricultural development), 5 (through developing representative community management bodies), 13 (through development of increasingly ecologically complex cocoa agroecosystems) and 15 (through integration of biodiversity conservation measures).

The project will also contribute directly to achieving many of the Aichi Biodiversity Targets, most particularly 2 (through integrating community management into policy), 5 (through reducing deforestation), 7 (through agroforestry development compatible with conservation), 11 (through implementing forest management), 14 (through the landscape management approach protecting ecosystem services), and 18 (through promoting community management and use of local knowledge).

The project team (including the lead organisation) brings together researchers and stakeholders who have considerable experience working in cocoa systems and Barry Callebaut’s involvement provides a powerful mechanism to amplify project findings. It is expected that all partnership organisations will be involved in the development of the final proposal.

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	£0.00	£0.00	£ 0.00
Visas and other travel documents	£0.00	£0.00	£ 0.00
Daily subsistence rate per day	£0.00	£0.00	
Number of days subsistence claimed (max 30 days per traveller)	0	0	
Total daily subsistence claimed (please provide details below)	£ 0.00	£ 0.00	£ 0.00
Workshop costs (please provide details below)			£ [REDACTED]
Other costs (please provide details below)			£ [REDACTED]
		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	£0.00	£0.00
Number of days subsistence claimed	0	0

Workshop costs

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

The workshops are a mixture of blended and face to face activity (dependent on the nature of the activity and current COVID restrictions). The final phase of the workshop will involve participation of government officials and will involve appropriately socially distanced face to face interaction.

Some of the cost will also cover secretarial activity to prepare invitations and administration of the project budget in Indonesia. The Workshop space and internet facilities are provided through matched funding Bangor staff will be involved in workshop preparation, main activity in all sessions and development of reports

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).

Activity 1: Subsistence and travel and accommodation associated with focus group discussions and drone surveys to cover field team activity at three field sites in Lampung. The field teams consist of three people working for five days.

Activity 2: Land cover surveys for the three study sites in Lampung. This will consist of a 4 person team conducting drone surveys and ground truthing work for seven days in Lampung.

Outputs from both activities will feed into the development of a working report to feed into workshop activities and the final proposal.

Bangor staff will be involved analysis and development of reports (3 days of Bangor staff time is included in the costs minus indirect costs - Bangor anticipate that more staff time will be required and this will be provided as matched funding)

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
05 July 2021	START
05 July 2021	Anticipated start for pre workshop field work. No Travel is anticipated due to COVID restrictions

No Response	No Response
No Response	No Response
No Response	No Response
No Response	No Response
No Response	No Response
No Response	No Response
No Response	No Response
No Response	No Response
No Response	No Response
No Response	No Response
16 July 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

trustees

of

Bangor University

I apply for a grant of





£9,884.00

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	Ben Davies
Position in the organisation	Finance Manager
Signature (please upload e-signature)	 F009542_DEFRA_Certification  19/01/2021  13:01:37  pdf 610.07 KB
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).