

Sa\100041

**Safeguarding the biodiversity of key
urban forests, Nairobi City County**

Dick, Jan | Centre for Ecology and Hydrology

Funding sought
Project start/end

£6,865.00
2 Jul 2018 - 10 Sep 2018

1. Contact Details

Q1. Lead applicant contact details

Please enter the contact details for the lead applicant. The lead applicant is the same as the Flexi-Grant account holder. Please note that the Flexi-Grant account holder will be the only contact point for the application.

Dr Jan Dick

Senior Scientist
Centre for Ecology and Hydrology
Primary Applicant

www.ceh.ac.uk
Bush Estate, Penicuik, Midlothian, EH26
0QB, United Kingdom (Work)

Jack O'Brien

Centre for Ecology and Hydrology

Maclean Building,, Crowmarsh Gifford, ,
Wallingford , Oxfordshire, OX10 8BB, United
Kingdom (Work)

Patrick Muthoka

Grace McConnell

CEH Tender Support
Centre for Ecology and Hydrology

www.ceh.ac.uk (Work)

Maclean Building,, Crowmarsh Gifford,
Wallingford , Oxfordshire, OX10 8BB, United
Kingdom (Work)

David Odee

Q2. Lead organisation contact details

Please enter the applicant organisation details

Centre for Ecology and Hydrology

www.ceh.ac.uk (Work)

Bush Estate, , Penicuik,, Midlothian, , UK,
EH26 0QB, United Kingdom (Work)

Please add any 'Committee Feedback' to the field below:

|

Please add any 'Specific Ineligibility' feedback to the field below:

|

Please add any 'Conditions' to the field below:

|

Please add any 'Positive Feedback' to the field below:

|

2. Title & Location

Q3. Working title of the proposed Darwin project

Safeguarding the biodiversity of key urban forests, Nairobi City County

Q4a. Host country (of proposed Scoping trip)

Kenya

Q4b. Other collaborating country/ies

NA

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

No

3. Scoping Principals & Lead Organisation Summary

Q6. Principals in Scoping work i.e. the travellers

Please give the details of the individuals (up to 2) from the lead organisation who would be directly involved in the Scoping work - i.e. making a visit to a host country. One page CVs must be provided.

Details	Main traveller	Second traveller
Surname	Dick	
Forename(s)	Jan	
Post held	Senior Scientist	
Department	Ecology, Evolution and Environmental Change Group,	
Telephone/Skype		
Email		
Country travelling from	UK	
Please attach the traveller's CV		

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 Centre for Ecology & Hydrology is the UK's Centre of Excellence for integrated research in terrestrial and freshwater ecosystems. Our science supports UK, European and global policies for sustainable resource use, conservation of biodiversity and sustainable economic growth. Jan Dick has worked extensively in the tropics

focusing on forestry, agroforestry and conservation across Africa, south America and south-east Asia. In the 2000's her work broadened to include the holistic approach to conservation, restoration and poverty alleviation embedded in the concepts of natural capital and ecosystem services. She has recently finished an EU-funded project that provided tested, practical solutions for integrating ecosystem services into land, water and urban management (Operationalisation of natural capital and ecosystem services-www.openness-project.eu/). This work highlighted the need to include all levels of society to sustainably manage natural resources. She recently presented two papers at the African Ecosystem Service Partnership Conference, Nairobi, where discussions led to this proposal (subsequently published in special issue of Ecosystem Service Vol 29 part C - CEH team contributed to 13 of the 14 papers). The need to involve local citizen groups was identified as a priority to preserve urban biodiversity (see the paper Dick et al reporting case study results).

Q7b. Would you like to include a letter of support from the lead applicant?

Yes

The limit for any single file uploaded as supporting materials with your application is 6MB. Please ensure documents are saved in PDF form where possible in order to minimise size.

5. Project Partners

Q8. About the partner organisation(s)

Please list all the partners involved and explain their roles and responsibilities in the Scoping 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.

1. Partner Name:	Kenya Forestry Research Institute (KEFRI)
Website address:	www.kefri.org
Details of anticipated roles and responsibilities:	KEFRI will be responsible for inviting key stakeholders in the forestry sector particularly associated with the Karura forest, and the logistic of the trip. They have key contacts in the Ministry of Environment and Natural resources, Kenya Forest Service and are currently key players in the tertiary forestry education sector.
Expertise in sustainable use or conservation of biodiversity and/or development:	<p>A state corporation, KEFRI is an interdisciplinary institution whose role is to conduct research in forestry and allied natural resources; disseminate research findings; and establish partnerships and cooperate with other research organizations and institutions of higher learning in joint research and training to enhance Kenya's Vision 2030 delivery and consequently contribute to a sustainable environment and improved citizens livelihoods.</p> <p>David Odee, recently led a case study in the EU funded project 'Operationalisation of natural capital and ecosystem services' focused on the sustainable use of the Kakamega Forest. The KEFRI team worked closely with local stakeholders and identified hotspots of ecosystem service supply and demand. The work contributed to a greater awareness of the linkages between conserving Kakamega forest and supporting human economy and well-being with multiple ecosystem services.</p>

Name of main contact point and post held:	Dr David Odee, Chief Research Officer, Head of Forest Biotechnology
Would you like to include a letter of support from this organisation?	<input checked="" type="radio"/> Yes
Letter of Support:	<p>The limit for any single file uploaded as supporting materials with your application is 6MB. Please ensure documents are saved in PDF form where possible in order to minimise size.</p> <div style="border: 1px solid black; height: 60px; width: 100%;"></div>

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

Yes

2. Partner Name:	National Museums of Kenya (NMK)
Website address:	www.museums.or.ke
Details of anticipated roles and responsibilities:	<p>NMK will be responsible for inviting key stakeholders in cultural and natural heritage sectors and others particularly associated with the National Arboretum. They will also be responsible for the logistic of the workshop. They are a key player in primary and secondary education sector.</p>

Expertise in sustainable use or conservation of biodiversity and/or development:	<p>NMK, a state corporation, is a multi-disciplinary institution whose role is to collect, preserve, study, document and present Kenya's past and present cultural and natural heritage. This is for the purposes of enhancing knowledge, appreciation, respect and sustainable utilization of these resources for the benefit of Kenya and the world, for now and posterity.</p> <p>Patrick Muthoka, has a long history of conserving biodiversity through sustainable utilisation. He has worked on a wide range of projects involving plants and their role in society considering aspects such as pollination, pesticides and intellectual property rights.</p>
Name of main contact point and post held:	<p>Dr Patrick Muthoka, Senior Scientist , head: ex-situ plant conservation</p>
Would you like to include a letter of support from this organisation?	<p><input checked="" type="radio"/> Yes</p>
Letter of Support:	

3. Partner Name:	
Website address:	
Details of anticipated roles and responsibilities:	
Expertise in sustainable use or conservation of biodiversity and/or development:	
Name of main contact point and post held:	

Would you like to include a letter of support from this organisation?	<input type="radio"/> Yes <input type="radio"/> No

4. Partner Name:	
Website address:	
Details of anticipated roles and responsibilities:	
Expertise in sustainable use or conservation of biodiversity and/or development:	
Name of main contact point and post held:	
Would you like to include a letter of support from this organisation?	<input type="radio"/> Yes <input type="radio"/> No

5. Partner Name:	
Website address:	
Details of anticipated roles and responsibilities:	
Expertise in sustainable use or conservation of biodiversity and/or development:	
Name of main contact point and post held:	

Would you like to include a letter of support from this organisation?	<input type="radio"/> Yes <input type="radio"/> No

6. Partner Name:	
Website address:	
Details of anticipated roles and responsibilities:	
Expertise in sustainable use or conservation of biodiversity and/or development:	
Name of main contact point and post held:	
Would you like to include a letter of support from this organisation?	<input type="radio"/> Yes <input type="radio"/> No

Q9. Can you confirm that none of the partners (excluding the lead applicant) have led a Darwin Initiative Main Project before?

| Yes

6. Justification & Concept Notes

Q10. Justification of need for a Scoping Award

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?

This project aims to safeguard the biodiversity of key urban forests whilst supporting the livelihoods of communities living in the area of Nairobi City County. The partners have excellent experience in biodiversity research in Kenya, particularly in tree research, environmental and ecosystem services analysis, however we need to develop both partnerships with other local actors and a full project concept before submitting a main-round application. Dr Jan Dick is applying for a Darwin Scoping Award in order to achieve these goals. CEH derives the majority of its income from competitive funding sources, i.e. grants and tenders and does not have funding to scope the full range of project partners required to fulfil the aims of this project concept

Matching funding will be provided, so funding is sought to part-fund a workshop in Nairobi, and part-fund the travel and subsistence for Jan Dick. Workshop participants will receive local travel expenses only, therefore all representatives to the workshops will be contributing.

Q11. Concept note for the Scoping Award

This question concentrates on the scoping study work and should demonstrate the objectives of the Award including:

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

The overall objectives of the trip are to:

- (i) Establish partnerships with a range of contacts both in the formal (government, research, health, business etc sectors) and informal sector (e.g. local resident and user groups) associated with the three gazetted forests (namely Karura, Ngong Road, and Nairobi Arboretum).
- (ii) Gather current and past knowledge by inviting people to present at an open workshop (to be advertised widely and held centrally)
- (iii) Co-develop a full main-round proposal with Kenyan partners for submission to the next round of the Darwin funding.

The activities of the scoping award will be meaningful in its own right as it will foster local collaboration and provide the start to a database of knowledge for each gazetted forest.

Prior to applying for this Award, tentative discussions with Kenyan partners took place when Jan Dick attended the African Ecosystem Service Partnership conference in Nairobi. The project idea was proposed during the conference in response to a need expressed by local conference delegates and others that in order to protect the biodiversity in these forests it was necessary to enhance their international visibility and research their sustainable utilisation by the people of Nairobi.

Therefore we are approaching the Darwin Initiative fund for a scoping award to enable the creation of a focused project motivated by the holistic management of the forest holdings within the administration of Nairobi City County because management of these green spaces was stressed as a priority by local people. We will focus on the assessment and conservation of biodiversity and obtaining an understanding of the monetary and non-monetary use of the forests, paying particular attention to the use of these areas by the urban poor. We have had positive contact with the Nairobi City Council who consider this application as useful and are keen to discuss in person. We aim to start the process of encouraging holistic working across government agencies, researchers and local people.

The protection and utilisation of the rich biodiversity held within the forested areas of Nairobi requires a large array of actors including (i) education and research organisations (ii) non-governmental organisations covering a wide range of issues including conservation, poverty alleviation, human health and wellbeing and (iii) civil governance groups including national, and devolved administrators and representatives from government regulatory agencies. The letters of support attached to this proposal demonstrate that actors in the research community are willing to part-fund a scoping activity to investigate protecting the forested areas of Nairobi. Local activists, planners, and policy makers will be targeted during the scoping visit. No problems in engaging with representatives of these groups is envisaged given the history of the two named in-country partners in this project (i.e. NMK & KEFRI).

Q12. Concept note for the resultant project

This question concentrates on the full Darwin application you intend to submit after the Scoping Award 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 following Conventions: the Convention on Biological Diversity (CBD); the Nagoya Protocol on Access and Benefit-sharing (ABS); the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA); the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)
- how the project will contribute to sustainable development in the country concerned
- briefly what the proposed partner's/s' expected role in the resultant Darwin project will be
- briefly the expected role of the Scoping travellers in the resultant Darwin project.

Nairobi City County (696 km²) is a complex socio-ecological coupled ecosystem. It hosts the country's capital city, contributes close to 60% of Kenya's GDP and is home to some 3 million people. There are three gazetted forests namely Karura, Ngong Road, and Nairobi Arboretum. Karura forest is the largest of the three at over 1000 hectares, which has three main rivers flowing through it. As of mid-2016, 36% of the forest harboured indigenous upland forest tree species and some 200 species of bird as well as a wide array of mammals including antelope, bush pigs, genets, civets, honey badgers, porcupines, Syke's monkeys, bush squirrels, hares, fruit bats, and various reptiles and butterflies.

Local people also extensively use the three urban forests, managed by the Kenya Forest Service. All the uses of these forested areas are not fully documented but empirically include recreation, education, and business ventures. The forests are under threat from developers, despite their contribution to the country's international commitments. The outputs from a full Darwin project will go beyond a collation of the knowledge of these forests and their role in delivering to the National Biodiversity Strategies and Action Plan; by directly engaging with the managers and users of these areas the project aims to assist Kenya meet its obligations to the Convention on Biological Diversity (especially articles 8, 10, 11, 12, 13, 17, 18).

The aim of the full Darwin application will be to build on this scoping proposal and involve government and non-government actors in:

1. Protection and sustainable utilisation of the rich biodiversity in the natural and man-influenced urban forests within Nairobi City Council administration (species identification NMK area of expertise)
2. An improved understanding of the value (monetary and non-monetary) of the rich biodiversity contained in the forests; utilising the concept of natural capital and ecosystem service (CEH expertise)
3. Enhanced understanding of the recreation potential and health benefits for residents and international visitors and the likely increase in workforce and other externalities, which may be involved if tourism is increased to these areas (KEFRI expertise)
4. Enriched educational experience in the urban forests for all age groups (all partners have relevant expertise).

Understanding relevant drivers acting in urban and peri-urban areas is critical to having impact and contributing to the conventions of particular interest to Darwin Fund and to significantly impact poverty alleviation. Knowledge co-produced with decision makers and those influenced by such decision makers can tackle directly these issues. Urban areas are now globally recognised to harbour a wide-ranging accessible biodiversity, and could play an important role in conserving species if they are properly documented and internationally recognised. In addition, they represent a 'community resource' as recognised in the Nagoya Protocol which advocates sharing the benefits arising from the utilisation of genetic resources in a fair and equitable way. The project will engage with the human dimensions of conservation through the provision of training and capacity building activities, and through a focus on communities and their participation.

7. Costs

Q13. Costs

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

	Main traveller	Second traveller	Total
Airfare including travel to airport			1,250.00
Visas and other travel documents			50.00
Total daily subsistence claimed (please provide details below)			2,415.00
Workshop costs (please provide details below)			£2,650.00
Other costs (please provide details below)			£500.00
		Total request from Darwin (must not exceed £10,000)	6,865.00

Additional details to support the figures above

	Main traveller	Second traveller
Daily subsistence rate per day	£115.00	
Number of days subsistence claimed (max 30 days per traveller)	21	

Workshop costs

Please provide further details on your workshops costs.

Details:

Catering for 60 persons at a workshops @£20 per head plus morning and afternoon tea or coffee = £1200

Subsidised hire of NMK venue @ £250 per day plus facilities (projector, flip charts, pens post-its etc) = £250

Travel cost for partipcants assuming a mix of public and private mean 60 people at £10 =£60

Other costs

Please provide further details on your other costs.

Note:Daily subsistence for UK traveller using HMRC scale rate.

Subsidised exclusive use of vehicle and driver while in-country in order to minimise delays traveling around the city i.e. airport pick-up and return, and from hotel to workshop and all bilateral meetings while in country. Experience has shown that a dedicated vehicle is necessary in Nairobi in order to facilitate meetings as it is expected that most bilateral meetings will take place in the offices of the local organisations. By travelling to the offices of potential partners the probability of meeting senior people is enhanced. £500

8. Timetable & Activities

Q14. Activities and timings

Please complete the Scoping Award Timetable to include your 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 scoping trip.

Date	Milestone
02/07/2018	START
09/07/2018	Advertise workshop widely and invite key organisations such as Nairobi City Council, Friends of Karura Forest Community Forest, Kenya Forest Service . Develop workshop program
08/08/2018	Travel to country for scoping visit and consult with local residents and other people working and managing the gazetted forests.
16/08/2018	Conduct workshop. Date depending on local circumstances but aiming for the second week of visit to allow initial bilateral meetings with key stakeholders
23/08/2018	Co-formulate outline of main Darwin proposal with partners while in country (in the light of input during the scoping visit)
27/08/2018	Finalise main Darwin proposal with partners - draft stage one proposal

10/09/2018	Submit Scoping project report - which will have been extensively drafted in country and agreed with project partners while in country
10/09/2018	Submit stage one proposal (date dependent on Darwin call - the plan is to submit to next round if timing possible).
10/09/2018	FINISH

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

Round 25

9. Certification

Q16. Certification

On behalf of the

company

of

CEH

I apply for a grant of

£6,865.00

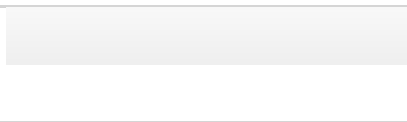
in respect of all expenditure to be incurred during the lifetime of this project based on the activities and dates specified in the above application.

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 scoping 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)



Name	Jack O'Brien
Position in the organisation	Research Contracts Advisor
Signature (please upload e-signature)	

Date	01/02/2018
-------------	------------

If this section is incomplete the entire application will be rejected.

10. Submission Checklist

Checklist for submission

	Check
Have you provided anticipated start and end dates for your Scoping trip?	<input checked="" type="checkbox"/>
Has your application been signed by a suitably authorised individual?	<input checked="" type="checkbox"/>
Have you read the Guidance documents for both <u>Main projects</u> and <u>Scoping awards</u> , and are you satisfied that your concept would be eligible for a main project application?	<input checked="" type="checkbox"/>
Have you read the current <u>Terms and Conditions</u> for this fund and can you confirm you are willing to be bound by these if your application is successful?	<input checked="" type="checkbox"/>
Have you uploaded 1 page CVs and letters of support as required?	<input checked="" type="checkbox"/>
Have you checked the <u>Darwin website</u> immediately prior to submission to ensure there are no late updates?	<input checked="" type="checkbox"/>