Applicant: **Tzamaloukas, Ouranios**
Organisation: **ERATOSTHENES CENTER OF EXCELLENCE (ECoE) of the Cyprus University of Technology (CUT)**
Funding Sought: **£50,000.00**
Funding Awarded: **£0.00**

DPLR3\1025

Conservation of Cyprus Cattle Breed; implementation of virtual fencing collars

The application of a virtual fencing collars for an environmental-friendly management of the indigenous Cyprus Cattle Breed within the Akrotiri Marsh will be tested. This innovative technology enhances pasture management through rotational grazing, establishes zones to protect endangered plants and ensures sustainable land use. Approximately twenty to thirty collars will be purchased and applied, and the application will be monitored throughout a year by collecting behavioural data, pasture -flora availability and laboratory analysis data.

CONTACT DETAILS

Title	Dr
Name	Ouranios
Surname	Tzamaloukas
Organisation	Cyprus University of Technology
Website (Work)	[redacted]

DPLR3\1025

Conservation of Cyprus Cattle Breed; implementation of virtual fencing collars

Section 1 - Project Title & Contact Details

Q1. Project Title

Conservation of Cyprus Cattle Breed; implementation of virtual fencing collars

Q2. Please select whether you are applying as an organisation or as an individual (Guidance section 3 and Guidance Glossary)

☐ Organisation

CONTACT DETAILS

Title	Dr
Name	Ouranios
Surname	Tzamaloukas
Organisation	Cyprus University of Technology
Website (Work)	[redacted]
Tel (Work)	
Email (Work)	
Address	

GMS ORGANISATION

Type	**Organisation**
Name	ERATOSTHENES CENTER OF EXCELLENCE (ECoE) of the Cyprus University of Technology (CUT)
Phone	[redacted]
Email	
Website	
Address	

Section 2 - Overseas Territory(ies)

Q3. Overseas Territory (Guidance section 1.3):

Which UK Overseas Territory(ies) will your project be working in? Please note that in case of a non-permanent resident population you need to demonstrate a clear, meaningful, long-term link to the territory.

☐ Sovereign Base Areas of Akrotiri and Dhekelia (on Cyprus)

*** if you have indicated a territory group with an asterisk, please give detail on which territories you are working on here:**

No Response

In addition to the UKOT(s) you have indicated, will your project directly benefit any other UK OT(s) or country(ies)?

☐ Yes

Please list these below and describe how they will benefit:

The objective is the application of a new management technology (collars) on the endangered Cyprus Cattle Breed at the Akrotiri Marsh. This project will provide scientific evidence for the application of this cutting-edge technology to this breed used in extensive farming, particularly in less favourable areas of great biodiversity interest.
The success of this application will encourage its adoption by other farmers owing local cattle with multiple benefits:
(a) conservation of an animal genetic resource with national and international interest,
(b) safeguarding biodiversity in less favourable areas,
(c) facilitating the use of local cattle in extensive farming (sustainable, organic).

Section 3 - Project Partners

Q4. Project partners (Guidance section 3.2)

In this section, please give details of all the partners involved (including the Lead Partner) and provide a summary of their roles.

Project Leader name (Guidance section 3.1):	Ouranios Tzamaloukas
Lead Partner name (if applying as an organisation; Guidance section 3.1):	ERATOSTHENES CENTER OF EXCELLENCE (ECoE) of the Cyprus University of Technology (CUT)
Lead Partner Website (if applicable):	*No Response*
Is the Lead Partner based in a UKOT where the project is working (Guidance section 3.1)?	☐ No

Please explain why this project is led from outside the UKOT:	Although the Lead Partner is headquartered in the nearby city (Limassol), the proposed project will take place in the Sovereign Base Area of Akrotiri (SBAA). Furthermore, the close collaboration between CUT and SBAA is proven by research and educational activities: - research project entitled “Phylogenetic characterization of indigenous Cyprus cattle” that took place with the collaboration of the local livestock farmers of the Akrotiri village. - regular visits by students/staff of the university for educational purposes. - consultation of the farmers by the university staff (Ass Prof O.Tzamaloukas) for several issues relating to grazing and nutrition of the cattle.
List other partners involved and where are they based:	There are not other partners.
Summary of roles and responsibilities of each partner in the project:	ERATOSTHENES Center OF Excellence (ECoE) of the Cyprus University of Technology (CUT) Research and Expertise: Providing scientific expertise and conducting comprehensive research on the implementation of collars to the indigenous Cyprus Cattle Breed and the evaluation of the animal acceptance and stress developed. Experimentation, Data Collection and Analysis: Identifying pilot farm and implement collars. Testing the animals’ learning ability through a one-week (or more) training in a small pasture area e.g., small paddock of 1ha at least. Setting and moving virtual fences according to biomass availability and excluding vulnerable pasture areas during the seasonal grazing. Samples from animals will be obtained (hair) and chemically analysed (cortisol level) to evaluate the stress status. Collecting behavioural data for long period of several months and analysing them. Data of pasture availability and management will be collected. Protected areas and rare plant species will be monitored Dissemination and results’ capitalization. Capacity Building: The project will provide the funding necessary for the purchase of the collars and provision to the local farmers. The project will provide the means for training of the farmers to the new equipment such as the well preservation of the equipment, the best management of the animals and troubleshooting.
I confirm that all listed partners are aware of this application and have indicated support:	Checked

Attach a Cover Letter for your application (Guidance section 4.2).

- cover letter OT SIGNED
- 29/11/2023
- 14:07:36
- pdf 148.8 KB

Section 4 - Project Summary & Description

Q5. Project Summary (Guidance section 3.8)

Please provide a brief summary of your project. This may be used in communication activities and/or published online, if your application is successful.

The application of a virtual fencing collars for an environmental-friendly management of the indigenous Cyprus Cattle Breed within the Akrotiri Marsh will be tested. This innovative technology enhances pasture management through rotational grazing, establishes zones to protect endangered plants and ensures sustainable land use. Approximately twenty to thirty collars will be purchased and applied, and the application will be monitored throughout a year by collecting behavioural data, pasture -flora availability and laboratory analysis data.

Q6a. Description (Guidance section 2.1 and 6)

Please provide a description of your project, including:

- **the overall objective**
- **the current situation and the problem the project is trying to address**
- **what success will look like and how you will measure it**

Please be as specific as possible when describing the project, using quantified data and evidence where available. You may wish to consider: what are the specific threats to the environment that the project will attempt to address, and what should we know about these threats? What does your successful project look like? And how will you demonstrate whether and how your project has been successful?

Invasive plants pose a significant and multifaceted threat to the delicate balance of Akrotiri Marsh ecosystem, exerting pressure on its ecological integrity. These plants, particularly reeds, not only disrupt native flora but also prevent the natural processes essential for maintaining a thriving ecosystem. Livestock grazing emerges as a pivotal management tool in this context, facilitating the conversion of reed-dominated areas to wet grassland, fostering biodiversity, and promoting a healthier Marsh environment. This is the reason that these animals were reintroduced in the area with the support of a previous Darwin project benefiting in parallel the declining population of this indigenous cattle in the island, reflecting a commitment to preserve both cultural heritage and biological diversity.

Recognizing the complexity of these challenges, the project aims to combine cutting-edge technology, the introduction of virtual fencing collars, with environmental sustainability of the Akrotiri Marsh.

The methodological approach for the one-year project, will be the following:

· Task 1: Identifying the pilot farm for the implementation of collars. This includes evaluating the vulnerable or protected or overflooded areas that have to be excluded, the number of animals available per farm, the farmer ability to adopt new technology etc.

· Task 2: Testing the animals' learning ability through a one-week (or more) training in a small pasture area e.g., small paddock of 1ha at least (1st visit of the colleagues from Italy is planned);

· Task 3: Setting and moving virtual fences according to biomass availability and excluding vulnerable pasture areas during the seasonal grazing (this will last for several months, including the training of the farmer);

· Task 4: Assessment of the animals' response (behavioural data) during seasonal grazing;
· Task 5: Evaluate the animals' stress condition, sample collection and quantifying the hair cortisol content in the lab (2nd visit planned);
· Task 6: evaluation of the pasture – flora biomass availability and management, as compared to nearby farms
· Task 7: Data analysis, dissemination and results' capitalization

A successful project envisions a landscape where the local cattle contributes positively to the Marsh environment through controlled grazing in specific areas. This could be measured through:
-the successful protection of endangered plant species,
-the prohibition of overgrazing of pastures available seasonally, and the optimum pasture management
-the good adaptation of this breed to the collar technology, allowing for precision in managing cattle movements without the need for fencing and without the development of stress or other welfare issue.
Thus, the project's success will be measured through a combination of quantitative and qualitative indicators. Firstly, the reduction in invasive plant species will serve as a key metric for environmental impact. Regular surveys and documentation of plant biodiversity will be conducted in the area of the selected farm, and compared to the nearby farms that follow traditional cattle management. This will provide tangible evidence in preserving the unique flora of the Akrotiri Marsh and actively contribute to restoration of marsh ecosystem. Secondly, the determination of collar efficacy will be a critical measure of the project success. Although there is a possibility that the collar technology may not be applied successfully in the specific breed (an indigenous breed used in extensive farming with limited human contact) or due to the specific area (marsh filled with water seasonally), this has to be documented with regular assessments of collar functionality, tracking the acceptance of collars by the animals, measuring the cortisol levels and addressing any issues that arise from the use of collars in the Marsh. Therefore, regular health assessments of the cattle and its welfare will provide insights into the well-being of the breed under the new management system.

Q6b. Long-term sustainability (Guidance section 2.1 and 6)

Please describe the long-term benefits of the project and the change it will bring about. How will the outcomes of the project be sustained after the funding is finished?

The proposed project has lasting benefits by applying Virtual Fencing Collars since it could be used for many years after the completion of the current project.
In the event of successful testing and application of this innovative approach, it could be explored for eligibility of funding under the Cyprus Strategic Plan of the EU Common Agricultural Policy and wider application across Cyprus, providing the means for other breeders of the indigenous cattle breed to buy and apply collars in their herds, and use them in extensive farming. This, apart for being a pivotal element of local heritage and the genetic conservation of the island genetic resources, it's also an applied tool for (a) ecosystem restoration by preventing overgrazing (b) improving biomass production and cost-effective animal nutrition of these animals through the precise regulation of cattle movements.
Moreover, the project is committed to building local capacity and knowledge through extensive training program for farmers. This knowledge transfer is integral to creating a community of informed farmers who can champion ongoing sustainability efforts. The integration of collars is designed not just as a temporary fix but as a self-sustaining tool for pasture management ensuring the long-term viability of the project's impacts.

(Optional) Please upload any additional and supporting materials or files (such as maps of project sites, etc) below. Maximum of 5 sides of A4, and is combined as a single PDF:

- photos
- 29/11/2023
- 14:16:15
- pdf 754.48 KB

Section 5 - Project Outcome(s)

Q7. Project Outcome(s) (Guidance section 1.2)

Successful Darwin Plus Local projects must demonstrate measurable outcomes in at least one of the themes of Darwin Plus with a clear focus on biodiversity and the natural environment, either by the end of the project or soon after through a credible plan.

Please confirm that y our project has a clear focus on biodiversity and the natural environment.

Checked	**Biodiversity: improving and conserving biodiversity, and slowing or reversing biodiversity loss and degradation;**
Checked	**Climate change: responding to, mitigating and adapting to climate change and its effects on the natural environment and local communities;**
Checked	**Environmental quality: improving the condition and protection of the natural environment**
Checked	**Capability and capacity building: enhancing the capacity within OTs, including through community engagement and awareness, to support the environment in the short- and long-term.**

Please justify your selection. Please use quantitative information where possible here.

-The project significantly impacts biodiversity by conserving an endangered cattle breed, and by providing a tool for sustainable management of habitats while protecting rare plant species.
-Introduction of virtual fencing gives an invaluable tool for sustainable grazing improving the natural environment of the Akrotiri Marsh, as a whole.
-The project actively engages in capability and capacity building, offering cattle collars as a management equipment while provides monitoring data and training to local farmers.
-The project indirectly contributes to tackling climate change since the efficient use of indigenous ruminant breeds is the best way to reduce emissions and enhance carbon sequestration.

Section 6 - Workplan

Q8. Workplan (Guidance section 2.2)

Please provide anticipated dates for the start and end of your planned project here. Please use the Darwin Plus Local Project Workplan (available at: Darwin Plus website) to provide a list of the individual activities you have planned for this project, a brief description of what each activity entails, and the months in which the activities will be carried out. If the project involves only one activity (e.g. a purchase), please still provide project start and end dates (noting estimated times for procurement). Please note that y our project must start after 1 April 2024 and be completed by 31 March 2025.

Start date:	End date:	Duration (e.g. 3 months):
01 April 2024	30 March 2025	12 months

Please upload the completed Darwin Plus Local Project Workplan with your proposed project activities here

- Workplan final OT
- 29/11/2023
- 14:19:58
- docx 30.02 KB

Section 7 - Costs

Q9. Costs (Guidance section 2.2 and please read the Finance Guidance)

Please provide a breakdown of costs to be funded through Darwin Plus Local (in GBP).

Are you seeking any matched funding for this project?

- No

Budget line	Explanation	Cost in GBP
Staff costs:	Since the whole project of installing the collars, checking their operation, assessing their effectiveness in the flora of the area and assessing the stress of the animals require frequent supervision and visits by the academic and research staff of the university, and therefore staff costs is budgeted for covering these working days.	[redacted]
Consultancy costs:	Expert costs for an extended evaluation of biodiversity. Expert cost for troubleshooting of malfunctioned equipment or veterinary assistance.	[redacted]
Overhead costs:	Upon our request the amount withheld by ERATOSTHENES CoE for overheads will be 7%.	[redacted]
Travel & subsistence costs:	Travel and accommodation costs of collaborators from Italy (University of Florence) who have worked on this technology will be needed. They will visit Cyprus two times during the 12-month, one at the beginning of the project and the other towards the end of project. Travel costs from the university premises to the Akrotiri Marsh are also needed on regular basis.	[redacted]
Operating costs:	Costs of organising workshops and dissemination activities within the UKOT area.	[redacted]
Capital equipment:	The cost of equipment (collar) that will be applied on the animals of selected farm.	[redacted]

Other Costs	Consumables, micro-equipment or protective covers for working with animals that will be needed during the animal experimentation or the lab work.	[redacted]
Total:		[redacted]

This section provides more information on the budget to help evaluators understand how you will use the funds you are requesting. You do not need to list all costs, but please list and detail costs of more than £1,000 per item below, under the appropriate budget line.

Details of staff costs over £1,000 (if relevant)

During the 12-month project there is a need of many working days for management, application of the equipment, evaluation of the animal response, sampling, behavioural data recording, laboratory analysis of the samples, evaluate the effects on pasture and dissemination of the project results. These needs are going to be covered by:
-Academic staff of the Cyprus University of Technology that will spend 50 working days during the 12-month project.
-Assistant researcher that will be employed for this specific project to assist in regular visits on the site of Akrotiri Marsh (12 months, part time).

Details of overhead costs over £1,000 (if relevant):

The minimum percentage of 7% in overhead costs has been offered for this proposal.

Details of travel and subsistence costs over £1,000 (if relevant):

As described in the proposal, travel and accommodation costs of collaborators from Italy who have worked on this technology will be needed (University of Florence). The first visit will take place at the installation of the equipment and will last between 3 to 7 days and the second visit will take place after 8 to 9 months from the installation.
Also, travel costs from the university premises to the Akrotiri Marsh are also needed almost every day during installation and training period and every week during the observation and sampling periods.

Details of operating costs over £1,000 (if relevant):

Costs of organising workshops and dissemination activities within the UKOT area informing the stakeholders (ie farmers, policy makers, environmental organisations) for the outcome of the proposed project.

Details of capital equipment costs over £1,000 (if relevant):

The cost of each equipment (collar) is between 300 to 400 pounds each (depending of the number of equipment needed and the time of the ordering). Furthermore, the animals that will be used would be 20 to 30 adult cows, depending on the selected farm. In order to have the correct functioning of the collars they must be applied to all animals of a farm since this technology has no results if animals exist within the herd without collars.

The calculated maximum cost with purchase of the equipment with the given today prices is [redacted] totalling to [redacted]

Details of consultancy costs over £1,000 (if relevant):

These costs have been budgeted for two special cases.
One is the case that the program will need an additional biodiversity characterization and thus we will refer to an external partner.
The other case is if the equipment we installed on the animals does not work properly and additional expert help will be needed or a veterinary assistance is needed on the events of harm to the animals.

Details of other costs over £1,000 (if relevant)

No Response

If your project budget was prepared in another currency and converted to GBP, please provide the exchange rate, its source, and the date it was accessed:

Other currency:	Exchange rate:	Source of this exchange rate:	Date exchange rate accessed:
No Response	*No Response*	*No Response*	*No Response*

Darwin Plus Local has been created to build capacity and contribute to local economies in-territory.

What % of the total will be spent in the OTs?	7

If less than 80% of the total project spend is to be spent within the OT(s), please explain why.

The majority of the funding that is requested will be spend on the UKOT area. More specifically, the working hours of the academic/research personnel and external consultancy that will be employed, summing up [redacted] pounds, will be spend as working hours (or services) within the Akrotiri Marsh. Also, the expenses for workshops and dissemination activities of [redacted] will take place in the UKOT area, while the cost of equipment, [redacted] pounds for collars, will be applied in animals that reside within the Akrotiri Marsh. These summing up to 74% of the total budget requested.

The remaining amount of [redacted] pounds are allocated for the travel and subsistence costs of the experts and employed personnel for their visits to the area, while the small overhead costs of [redacted] pounds and other costs ([redacted]) has been kept as minimum as possible and will be spend outside the UKOT area.

Section 8 - Local and National Priorities

Q10. Local and national priorities

Please explain how this project aligns with local and national priorities? You may wish to consider the project in the context of national environmental laws, objectives, strategies, territory specific agreements, action plans or policies.

This project aligns seamlessly with local and national priorities by directly contributing to key environmental objectives, laws, and policies. The initiative corresponds with national environmental laws, which often emphasize biodiversity conservation, sustainable land management, and the protection of indigenous species. Additionally, the project entails with national strategies focused on climate resilience and the sustainable use of

natural resources.
In the context of specific territory agreements and policies of SBAA, the project is designed to complement and reinforce regional conservation efforts, by conserving an indigenous cattle breed, aligns with territory-specific biodiversity conservation agreements and SBAA Ordinances designating the Marsh under the Akrotiri Special Area of Conservation, as well as the relevant Akrotiri Peninsula Environmental Management Plan.

The Virtual Fencing Collars aligns with modern, technology-driven strategies, often emphasized in national policies aimed at sustainable agricultural practices and environmental conservation. Moreover, the project supports broader national goals related to economic sustainability. By promoting sustainable farming practices and enhancing the livelihoods of local communities, it aligns with national strategies for rural development and poverty alleviation as shown in the strategic plan of the department of Agriculture https://www.moa.gov.cy/moa/da/da.nsf/stradegicplan_en/stradegicplan_en?OpenDocument

Will the project take place on Government owned land or water or involve biocontrol, invasive alien species control or eradication?

☐ Yes

Please attach evidence that you have Government support for this project i.e. a Letter of Support. Applications which indicate that they do not take place on Government land or water, but which propose work that appears to the reviewers would be difficult/impossible to carry out without working on government land or waters may be ineligible if no Letter of Support is provided.

- ☐ R3_DPlus_Local_LoS_CUT (1)
- ☐ 29/11/2023
- ☐ 14:41:06
- ☐ pdf 199.96 KB

Section 9 - Project Risks

Q11. Project Risks

Please demonstrate your consideration of any risks involved in this project and how you intend to manage them. Please note the importance of health and safety and environmental risk assessment in the design of your project. If there is any possibility that your project may have negative impacts on the environment or human health, it is important that you provide a comprehensive analysis of potential environmental and human health risks, and the prevention measures you will take to ensure the work does not cause harm.

Depending on your project, you may wish to consider:

- **Biosecurity risks – particularly for projects involving external equipment.**
- **Safeguarding risks – particularly for projects involving vulnerable groups such as children, older people or people with disabilities.**

Risk	Mitigation

Welfare issues, sickness or any related harm to the animals due to the equipment implementation or due to any other reason.	Experts from Italy have been contacted to offer their expertise in installation of the equipment and after a few months of regular use. Also, a consultancy cost has been provided in the budget in the event of animal sickness or adversely affected due to equipment.
Withdrawal of selected farmer(s) from cooperation for any reason, ending their participation in the program.	Consultation will proceed the selection of the pilot farm, and an agreement will be signed between the providers of the equipment and the end user. However, in the event of ending collaboration with the selected farmer, the equipment remains as a property of the ECoE and alternatives for the completion of the project will be searched.
Malfunction of the equipment due to the excessive water that seasonally is gathered in the Akrotiri Marsh or for another unknown reason.	The pilot farm will be selected according to the precaution it may have against water overflow. Also, in the event of non-operation of the collars an amount in the consultancy costs has been provided in the budget to ensure the extra costs of specialist assistance.

Do you require more fields?

☐ No

Section 10 - Terms & Conditions

Q12. Terms and conditions (Guidance section 3.10)

By applying for Darwin Plus Local you are adhering in full to the grant Terms and Conditions in full (available at: Darwin Plus website **and as referenced in the Guidance at section 3.10). For information, the Terms and Conditions include requirements for all applicants to (amongst other requirements as per the full Terms and Conditions):**

- **Uphold a zero tolerance for inaction approach to tackling sexual exploitation, abuse, and harassment.**
- **Where appropriate, make all reasonable and adequate efforts to address gender inequality and other power imbalances.**
- **Notify all cases of fraud and theft (whether proven or suspected) relating to the project to the Grant Administrator as soon as they identified.**

Please indicate you have read, and understood, and will adhere to the Terms and Conditions.

Checked

Supporting documents list (please have these ready to attach with application)

- **Cover Letter of no more than two A4 pages. (Guidance section: 4.2 has information on what this cover letter should include).**
- **If the project takes place on public land or water or is addressing invasive alien species, a Letter of support from OT Government.**
- **Project Workplan in the template provided for Darwin Plus Local (available at:** Darwin Plus website**).**
- **Map and additional information (optional) maximum five additional pages.**

If y our application is successful

If your project application is successful, the Fund Administrator (NIRAS) will ask you to provide some financial evidence for due diligence checks before you receive your project grant. (Please see section 3.3 of the Darwin Plus Local Finance Guidance). Please be ready to provide this evidence promptly.

- **Financial evidence for organisations: Year-end financial statements, the latest management accounts or audited accounts (if you have these).**
- **Financial evidence for individuals: Proof of identity such as a passport, ID card or driving licence and solvency (such as bank statements) and a police check.**

Section 11 - Certification

Certification

I certify that, to the best of my knowledge and belief, the statements made in this application are true and the information provided is correct.

Checked

I have the authority to submit an application on behalf of my organisation.

Checked

Name:	Ouranios Tzamaloukas
Position in the organisation: (if applicable)	Associate Professor
Signature (please upload e-signature)	281_signature_O Tzamaloukas_24_SIGNED 29/11/2023 14:59:48 pdf 63.06 KB
Date:	29 November 2023

Section 12 - Submission Checklist

Checklist for submission

	Check
I have read the Guidance **documents, including the "Darwin Plus Local Guidance" and the "Darwin Plus Local Finance Guidance".**	Checked
If my proposed project takes place on public lands or water or is addressing alien invasive species, I have uploaded a Letter of Support from Government.	Checked
I have uploaded a cover letter that details the information requested in the guidance (Guidance section 4.2 has information on what this cover letter should include).	Checked

I have read, and can meet, the current Terms and Conditions **for this fund.**	Checked
I have provided actual start and end dates for my project that fit this Round.	Checked
I have provided my summary budget based on UK government financial years i.e. 1 April – 31 March and in GBP in the application form.	Checked
I have uploaded my project workplan using the specific template **provided.**	Checked
I have uploaded all supplementary documents if I have any.	Checked
(If copying and pasting into Flexi-Grant) I have checked that all my responses have been successfully copied into the online application form.	Checked
The application has been signed by a suitably authorised individual (clear electronic or scanned signatures are acceptable).	Checked
I have checked the Darwin Plus website **immediately prior to submission to ensure there are no late updates.**	Checked
I have read and understood the Privacy Notice on the Darwin Plus website**.**	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 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 Darwin Plus. We also provide occasional updates on other UK Government activities related to biodiversity conservation and share project news. You are free to unsubscribe at any time.

Checked

Data protection and use of personal data

Information supplied in the application form, including personal data, will be used by Defra as set out in the **Privacy Notice**, available from the Forms and Guidance Portal.

This **Privacy Notice must be provided to all individuals** whose personal data is supplied in the application form. Some information may be used when publicising Darwin Plus including project details (usually title, lead partner, project leader, location, and total grant value).

Darwin Plus Local

Provide a **Workplan** that shows the key milestones in project activities. Complete the following table as appropriate to describe the intended workplan for your project. Round 3 is for a **maximum of 12 months** with activities starting from 1 April 2024. All activities must be completed by 31 March 2025.

Please add/remove columns to reflect the length of your project. For each activity (add/remove rows as appropriate) indicate the number of months it will last, and shade only the months in which an activity will be carried out. The workplan can span multiple pages if necessary.

Activity #	Description (max 25 words)	No. of months	UK Financial Year 2024/25											
			Calendar Year 2024									Calendar Year 2025		
			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Task 1	Identifying the pilot farm for the implementation of collars. This includes evaluating the vulnerable or protected or overflooded areas that have to be excluded, the number of animals available per farm, the farmer ability to adopt new technology etc.	1	x											
Task 2	Testing the animals' learning ability through a one-week (or more) training in a small pasture area e.g., small paddock of 1ha at least (1st visit of the colleagues from Italy is planned)	2		x	x									
Task 3	Setting and moving virtual fences according to biomass availability and excluding vulnerable pasture areas during the seasonal grazing (this will last for several months, including the training of the farmer);	1.5				x	x	x						
Task 4	Assessment of the animals' response (behavioural data) during seasonal grazing;	2							x	x				
Task 5	Evaluate the animals' stress condition, sample collection and quantifying the hair cortisol content in the lab (2nd visit planned);	1									x			
Task 6	Evaluation of the pasture – flora biomass availability and management, as compared to nearby farms	1.5				x	x	x				x	x	x
Task 7	Data analysis, dissemination and results' capitalization	3										x	x	x