



Submit by Monday 24 October 2011

DARWIN INITIATIVE APPLICATION FOR GRANT FOR ROUND 18: STAGE 2

Please read the Guidance Notes before completing this form. Where no word limits are given, the size of the box is a guide to the amount of information required. Information to be extracted to the database is highlighted blue.

1. Name and address of organisation (NB: Notification of results will be by post to the Project Leader)

Name: Address:

Falklands PO Box 26, 41 Ross Road East Conservation Stanley, Falkland Islands FIQQ 1ZZ

2. Project title (not exceeding 10 words)

Darwin Initiative's Falkland Islands raptors – reducing conflicts with rural livelihoods.

3. Project dates, duration and total Darwin Initiative Grant requested, matched funding

Proposed start date:		Duration of project:			End date:	
Darwin funding requested	2011/12 £		2013/2014 £59,387	2014/15 £46,568	2015/16 £	Total £178,986
Proposed (confirmed and unconfirmed) matched funding as percentage of total Project cost: 58%						

4. Define the purpose of the project (extracted from logframe)

To provide a scientific basis for government policy regarding management of conflicts between raptors and rural livelihoods in the Falkland Islands, particularly sheep farming.

5. Principals in project. Please provide a one page CV for each of these named individuals. You may copy and paste this table if you need to provide details of more UK personnel or more than one project partner.

project partner.			
Details	Project Leader	Other UK personnel (working more than 50% of their time on project)	Main project partner and co-ordinator in host country/ies
Surname	Fenton	N/A	Same
Forename (s)	James		
Post held	Chief Executive Officer		
Institution (if different to above)			
Department			
Telephone			
Email			

6. Has your organisation received funding under the Darwin Initiative before? If so, please provide details of the most recent (up to 6 examples).

Reference No	Project Leader	Title					
13022	Ms. Ann Brown	Falkland Islands Invertebrates Conservation Project					
8024	Dr. J. McAdam	Status & Distribution of the Flora of the Falkland Islands					
EIDCF002	Craig Dockrill	Conservation of FI Raptors – reducing conflicts with sheep farming					
EIDPR117	Dr. Shaun Russell	Biodiversity Inventory & Conservation in Falkland Islands and South Georgia					
EIDCF005	lain Staniland	Darwin Southern Sea Lion Programme					

7. IF YOU ANSWERED 'NO' TO QUESTION 6 describe briefly the aims, activities and achievements of your organisation. (Large institutions please note that this should describe your unit or department)
Aims (50 words)
Aims (50 Words)
Activities (50 words)
Achievements (50 words)

8. Please list all the partners involved (including the Lead Institution), and explain their roles and responsibilities in the project. Describe the extent of their involvement at all stages, including project development. This section should illustrate the capacity of partners to be involved in the project. Please provide written evidence of partnerships. Please copy/delete boxes for more or fewer partnerships.

Applicant institution and website where available:

Falklands Conservation (FC)

www.falklandsconservation.com

Details (including roles and responsibilities and capacity to engage with the project):

FC is a not for profit organisation operating within the Falkland Islands, where it employs 4 full time and 2 part time staff. In addition, there is a single full time employee in the UK.

FC's CEO will chair the Project Steering Committee (PSC) and be responsible for reviewing and submitting quarterly financial and technical progress reports.

Once recruited, the Project Officer will lead daily implementation of the project, deliver research and consultation activities, work closely with project advisors. He/she will report to the PSC and be responsible for drafting progress reports.

The FI Office Administrator will track daily expenditures, and draw upon her knowledge of the local community to coordinate logistics on behalf of the project team.

FC's UK Executive Officer will liaise with the Darwin Initiative secretariat, and support the project team in developing, editing, and disseminating publicity materials.

FC's Education Officer will take a lead in the development of education and outreach materials for adult and youth audiences.

In addition to contributions from salaried staff, FC members Robin Woods, MBE, Jonathan Meiburg, and Dr. David Galloway will lead the study of Striated Caracara winter ecology. Mr. Woods and Mr. Meiburg are the project authorities on Striated Caracara and will provide technical oversight throughout the project.

Falklands Conservation has delivered numerous conservation and research projects over the past three decades. FC will utilise its local knowledge and strong partnerships with subject matter experts to deliver a timely and impactful project.

Lead Partner and website where available:

The Royal Zoological Society of Scotland (RZSS)

www.rzss.org.uk

Details (including roles and responsibilities and capacity to engage with the project):

The RZSS was instrumental in developing and implementing the Darwin Challenge Fund project "Conservation of Falkland Islands raptors reducing conflicts with sheep farming" through provision of technical advice, instrumentation, mentoring, and field assistance. Dr. Ruairidh Campbell led the construction of novel low-cost tracking devices and supervised their deployment in the Falkland Islands during the austral winter of 2010. Dr Campbell brings experience of humanwildlife conflicts through his work on the beaver and its reintroduction in the UK, and is committed to further supporting the project. RZSS has also considerable experience in raptor conservation including the genetic monitoring of golden and white-tailed eagles in Scotland. Dr. Campbell will make two journeys to the Falkland Islands to mentor the Project Officer on tracking technology.

The RZSS is also committed to profiling the project through their existing network and continuing to mentor conservation scientists in the Falklands.

Partner Name and website where available:

The Royal Society for Protection of Birds (RSPB)

www.rspb.org.uk

Details (including roles and responsibilities and capacity to engage with the project):

The RSPB International Programme supports several BirdLife Partners overseas through annual grant contributions. The RSPB International Programme has provided support throughout the development of this project.

Barrie Cooper (International Education Manager) and Ms. Clare Stringer will be responsible for the RSPB contributions to the project. Ms. Stringer will continue her advisory role, and assist FC by identifying opportunities for synergy with other initiatives and publicity opportunities. Mr. Cooper will provide leadership and technical oversight to the development of education and outreach materials within this project.

Dr. Richard Cuthbert of the RSPB is leading a Darwin Project that seeks to build knowledge for the eradication of house mice from vulnerable islands. Dr. Cuthbert and other RSPB staff have been working with FC on this project for the past 18 months. Should this application be successful, project staff would once again work with Dr. Cuthbert to understand the winter ecology of Striated Caracara at Steeple Jason, Falkland Islands (one of a few islands in the world with house mice, but no rats). See Section 11b.

Lastly, there is scope for the RSPB's employee sabbatical programme to offer additional support to this project.

Partner Name and website where available:

Falkland Islands Government

Environmental Planning Department http://www.epd.gov.fk/

Department of Agriculture http://www.agriculture.gov.fk/

Details (including roles and responsibilities and capacity to engage with the project):

The Falkland Islands Government is a key partner in this project, and is ultimately responsible for promoting the rural economy (Rural Development Strategy) and safeguarding biodiversity. However, the annual budget allocated to non-fisheries environmental research is less than £100,000.

The Environmental Planning Department (EPD) will have 1 member on the Project Steering Committee and coordinate all project communications with government. The EPD will receive recommendations from the project, and provide guidance to the Project Officer in drafting relevant policies and management directives.

The Department of Agriculture (DOA) will have 1 member on the Project Steering Committee. In addition to ensuring agricultural and economic perspectives are considered throughout the project, the DOA will train the Project Officer in post-mortem analysis of livestock, and act as a conduit for communications to the broader agricultural community.

Representatives from DOA and EPD have been actively engaged in developing this project since October 2009. During the Challenge Fund project, DOA and EPD representatives were represented on the steering committee and assisted the Project Officer with field activities.

Partner Name and website where available:

Hawk Mountain Sanctuary www.hawkmoutain.org

Details (including roles and responsibilities and capacity to engage with the project):

Dr. Keith Bildstein, Director of Conservation Science at Hawk Mountain Sanctuary has been actively involved in the development and implementation of this project since 2009. Dr. Bildstein mentored the Challenge Fund Project Officer over two 4-week periods, providing instruction in capture, handling, and marking of raptors.

Hawk Mountain Sanctuary has committed resources to raptor research in the Falkland Islands on an annual basis and will maintain that commitment throughout the proposed project. Dr. Bildstein is committed to twice annual visits throughout the project and will provide technical oversight and mentoring/capacity building in raptor capture, handling and field biology techniques.

Partner Name and website where available:

Wildlife Conservation Society www.wcs.org

Details (including roles and responsibilities and capacity to engage with the project):

The Wildlife Conservation Society (WCS) are owners and stewards of Steeple Jason and Grand Jason Islands in the extreme northwest of the Falklands archipelago. Collectively, these two islands are a stronghold for the Striated Caracara.

WCS maintains a wildlife research station on Steeple Jason, which it has made available for the project team in order to study the ecology of Striated Caracara during winter, in the absence of livestock. Steeple Jason is one of the few places where such research is possible, as most islands are either populated by livestock, or uninhabitable.

WCS has vetted the proposed research activities for Steeple Jason, and given their full support to this project and its contribution towards understanding the feasibility of eradicating house mice from Steeple Jason. Email confirmation of WCS support for the project is attached.

Partner Name and website where available:

Raptor Research Centre
Boise State University
http://raptorresearchcenter.boisestate.edu

Details (including roles and responsibilities and capacity to engage with the project):

Boise State University's Dr. Marc Bechard has visited the Falklands on several occasions to study Turkey Vultures. During the Challenge Fund project, Dr. Bechard undertook two 3-week visits to the Falklands, mentoring the Project Officer in raptor biology and ecology, handling and marking techniques.

Dr. Bechard is committed to twice annual visits to the Falklands over the next two years, and will continue to work with local conservationists to build their capacity to undertake independent raptor research. Dr. Bechard is a subject matter authority on Turkey Vultures.

Partner Name and website where available:

EDM International Inc. http://www.edmlink.com/

Details (including roles and responsibilities and capacity to engage with the project):

Dr. James Dwyer was identified during the Darwin Challenge Fund project as a subject matter specialist on Southern Caracara, having documented extensive movements of the species in Southern Florida in relation to power transmission developments. Dr. Dwyer spent 2 weeks in the Falkland Islands working with the Project Officer to capture, mark, and track the movements of Southern Caracara.

EDM International and Dr. Dwyer will donate up to 3 weeks of his time to this project per year. Dr. Dwyer is an authority on Southern Caracara.

9a. Have you consulted stakeholders not already mentioned above? If yes, please give details:	⊠ Yes □ No
During the Challenge Fund project, a proportion of individual landowners waddition, the Rural Business Association participated in the steering committee Fund project. A majority of the Falkland Islands' community is aware of the prothe consultative and participatory approach of the Challenge Fund project (w forward) was very well received.	e for the Challenge ject objectives, and
9b. Do you intend to consult other stakeholders? If yes, please give details:	⊠ Yes □ No
We intend to encourage broad participation in all aspects of the project and properties for stakeholders to self identify should they not already be scoped into the constant.	• •
9c. Have you had any (other) contact with the government not already stated? If yes, please give details:	☐ Yes ⊠ No
9d. Will your project support any work in the UK Overseas Territories? If yes, please give brief details stating which Territory/ies will be involved. Falkland Islands	⊠ Yes □ No

PROJECT DETAILS

10. Please provide a Concept note (Max 1,000 words) (repeat from Stage 1, with changes highlighted) Changes are highlighted in bold, green text

NOTE: Within this application, the term raptor includes southern giant petrel, owing to its opportunistically predatory behaviour in the Falklands, similar to the other raptor species.

Three species of raptor, Striated Caracara (*Phalcoboenus australis*), Southern Caracara (*Caracara plancus*), and Turkey Vulture (*Cathartes aura*), and one pelagic species, Southern Giant Petrel (*Macronectes giganteus*) are perceived by landowners as causing economic loss through harassment and predation of livestock. Currently, landowners may apply to the Environmental Planning Department of the Falkland Islands Government for a licence to shoot raptors in defence of livestock **or property**. Understanding the extent of interactions between raptors and rural livelihoods is essential to building an effective and environmentally responsible management strategy.

All raptors are protected in the Falkland Islands under the Conservation of Nature and Wildlife Ordinance (1999) although lethal control is allowed under permit. Southern Giant Petrels are protected under the Convention on the Conservation of Migratory Species of Wild Animals (CMS) Appendix II and Agreement on the Conservation of Albatrosses and Petrels (ACAP).

The Striated Caracara is listed as Near Threatened, owing to its small population (<1000 pairs) and restricted distribution – Falkland Islands, Magellanic region of Chile, and Fuegian region of Argentina. Up to 90% of Striated Caracaras breed in the Falkland Islands, but persecution may restrict the distribution (and by association the population) of the species to outer islands and the northern, western, and southern fringes of West Falkland.

Behaviour and movement of raptor species in the Falkland Islands are poorly understood. Greater understanding of the ecology and social interactions of raptor species is vital to the development of sustainable and responsible management strategies. Analysis of this conflict requires further scientific investigation and extensive consultation with **stakeholders**. Successful management of raptor-rural livelihood interactions will require policies and tools that are both practical and effective in reducing perceived conflicts, **protecting** property and livestock, and safeguarding raptors.

During the Challenge Fund Project, several farmers indicated that raptors have a significant impact on their livestock and that population control is essential. These preliminary interviews

also documented concerns regarding raptor damage to infrastructure such as greenhouses that provide rural residents with food and additional income streams. The perceived negative impact of raptors upon species such as Gentoo Penguin (*Pygoscelis papua*), which are a mainstay for tourism and an important element of the rural economy, was also noted. The latter concern supports the need to improve awareness regarding the ecological role of raptors within the Falkland Islands. Many landowners feel that current raptor control efforts are inconsiderate of raptor impacts upon rural livelihoods. A more thorough consultation of the Falklands' community will allow us to evaluate perceptions and experiences, and provide policy makers with recommendations that balance livelihood interests with conservation objectives.

This project will assess the populations, social behaviour, and socio-economic impacts of these species – and provide valuable ecological insights for one of the world's rarest raptors – Striated Caracara. Results of ecological research will be combined with socio-economic survey data, and traditional knowledge to inform management recommendations that provide alternatives to shooting. These alternatives will be embedded within the *National Plan of Action for managing conflicts between raptors and rural livelihoods*. Several peer-reviewed manuscripts and a *Species Action Plan for the Striated Caracara* are also **key outcomes of this** project. Collectively, these outputs will enable policy makers to determine the best course management strategies for reducing conflicts and protecting raptors.

Meeting Biodiversity Obligations

The Falkland Islands Government directly supports the Convention on International Trade in Endangered Species (CITES), and the Convention on Migratory Species (CMS), and contributes to UK commitments within the Convention on Biological Diversity (CBD). This project will improve conservation efforts for two CITES listed species (Southern Caracara, Striated Caracara), three CMS Appendix II species (Southern Caracara, Striated Caracara, Turkey Vulture) and address two priority issues within the Falkland Islands Biodiversity Strategy 2008 – 18: shooting of raptors to protect livestock, and development of a Species Action Plan for Striated Caracara.

Annually, the Falkland Islands Government allocates less than £100,000 for non-fisheries research, thus a project of this scope could not occur without external support. Interest in Falklands' raptors has mobilised considerable matched funding (58%) through in-kind commitments of expertise, technology, and equipment locally and overseas.

Project Objectives

Falklands Conservation and its partners will deliver a programme to improve management and conservation status of raptors in the Falkland Islands through scientific study, community engagement and education, capacity building, and policy advocacy. **Over three years** the project team will:

- Conduct tracking, observation, and monitoring of Falkland Islands raptors and their interactions with rural livelihoods.
- Complete assessment of stakeholder perceptions regarding socio-economic impacts of raptors on rural livelihoods.
- Undertake dedicated research regarding Striated Caracara, with particular emphasis on winter survival, dispersal and foraging.
- Mentor a local graduate in conservation science and raptor biology.
- Deliver outreach and extension activities in 5+ settlements and Stanley.
- Publish several articles in peer-reviewed journals.
- Prepare a Species Action Plan: Striated Caracara and a National Plan of Action for Managing Conflicts between Raptors and Rural Livelihoods on behalf of government.

Falklands Conservation has more than 20 years' experience of applied conservation research in the Falklands, including two Darwin Initiative projects:

- Status and Distribution of the Flora of the Falkland Islands (Project No. 8-024)
- Falkland Islands Invertebrates Conservation Project (P13-022)

Falklands Conservation developed this proposal in collaboration with its partners, and with support from the DI Challenge Fund. A consultative process through the Challenge Fund Raptors-Livestock Conflict steering committee provided valuable insights from regulators, farmers, and conservationists – a similar steering committee would be established to oversee a full DI Project.

Project implementation will be led by Falklands Conservation (Robin Woods MBE – Technical Advisor, **Dr. James Fenton** – Project Manager), Royal Zoological Society of Scotland (Dr. Ruairidh Campbell), and Hawk Mountain Sanctuary (Dr. Keith Bildstein). The project team assembled has more than 50 years of research experience in the Falkland Islands and decades of raptor research experience. This team is capable of delivering a project that addresses a long standing wildlife-livelihood conflict in the Falkland Islands, contributes significantly to national wildlife management policy, and pioneers ecological research for one of the world's rarest raptors – Striated Caracara.

11a. Is this a new initiative or a development of existing work (funded through any source)? Please give details:

This project expands upon the Darwin Initiative Challenge Fund project (EIDCF002), enhancing several strands of research and drawing upon decades of natural history observation:

Robin Woods, MBE and Jonathan Meiburg - Striated Caracara

Dr. Keith Bildstein, Dr. Marc Bechard, and Brandon Breen – Turkey Vultures

Dr. James Dwyer and Sam Cockwell - Southern Caracara (Darwin Challenge Fund)

This project (and its Challenge Fund predecessor) represents the first comprehensive analysis of conflicts between rural livelihoods and birds of prey; including interspecies and intra-species relations, behavioural ecology, and an ecosystem based approach to assessing ecological and biological constraints for Falkland Island raptors.

The project combines thematic expertise from the RZSS (remote tracking of wildlife) and the RSPB (wildlife education) with biological expertise from HMS and Boise State University (Turkey Vultures), EDM (Southern Caracara), and Falklands Conservation (Striated Caracara). The resultant project team is truly international.

11b. Are you aware of any other individuals/organisations/ projects carrying out or applying for funding for similar work? ☐ Yes ☒ No

If yes, please give details explaining similarities and differences, and explaining how your work will be additional to this work and what attempts have been/will be made to co-operate with and learn lessons from such work for mutual benefits:

However, we have been in discussions with Dr. Richard Cuthbert regarding the synergy between project 18017 (Developing knowledge to eradicate house mice from UK OT islands), and this proposal which seeks in part to enhance knowledge of the Striated Caracara's winter ecology and behaviour in the absence of sheep. The most sensible location for this study is Steeple Jason Island, which is an island of equal interest to Dr. Cuthbert's Darwin Initiative project.

11c. Are you applying for funding relating to the proposed project from other sources? \square Yes \square No

If yes, please give brief details including when you expect to hear the result. Please ensure you include the figures requested in the spreadsheet as Unconfirmed funding.

We were successful in supplementing the Darwin Challenge Fund project with a small grant from the National Birds of Prey Trust, and are hopeful of accomplishing the same should this main application be successful. As that fund is quite limited in scope (up to £5000 per year), we will not submit the application until we learn of the Darwin Initiative result, and will use the additional funds to augment one or more aspects of the project. Expected grant date September 2012.

12. Please indicate which of the following biodiversity conventions your project will contribute to: -

At least one must be selected.

- Only indicate the conventions that your project is directly contributing to.
- No additional significance will be ascribed for projects that report contributions to more than one convention

Convention on Biological Diversity (CBD)	⊠ Yes □ No
CITES	⊠ Yes □ No
Convention on Migratory Species (CMS)*	⊠ Yes □ No
*If CMS please indicate whether it is the agreements/MoUs (ACAP, AEWA etc)	main Convention or one or more of the daughter
Vultures and Caracaras are listed in Appendi	ix II of CMS.
The Falkland Islands is not a signatory to UK's efforts under CBD.	CBD, but its conservation efforts do contribute to the
Is any liaison proposed with the CBD/CMS/CIT If yes, please give details:	TES focal point in the host country? ⊠ Yes ☐ No

What specific issues covered by the Convention(s) will this project address and how were they identified? (150 words)

Nick Rendell, Environment Officer, Falkland Islands Government is the CBD/CMS/CITES focal point for the Falkland Islands. Mr. Rendell will be a member of the Project Steering Committee and has been involved in the development of this project, and the preceding Challenge Fund project.

Support to UK commitments under the Convention on Biological Diversity (CBD)

- 6 (a) Develop national strategies, plans or programmes for the conservation and sustainable use of biological diversity...
- 8(d) Promote the protection of ecosystems, natural habitats and the maintenance of viable populations of species in natural surroundings;
- 8(f) ...promote the recovery of threatened species, *inter alia*, through the development and implementation of plans or other management strategies;
- 8(k) Develop or maintain necessary legislation and/or other regulatory provisions for the protection of threatened species and populations;

The project seeks to reduce persecution of raptors, and assess current populations – supporting Objectives 1.1 and 1.5 of CITES Strategic Vision.

The project promotes, co-operates in, and supports research relating to migratory species – CMS Article II.

The issues that this project will address were identified during a situation analysis undertaken as part of the Darwin Challenge Fund application, as it was developed in 2009.

What will change as a result of this project? (150 words)

Interactions between raptors and rural livelihoods will be better understood, providing wildlife managers with clarity on how to mitigate potential impacts, and avoid conflicts between ecological, tourism and agricultural objectives.

Alternative methods of managing conflicts between raptors and rural livelihoods will have been examined in a forum attended by policy makers, farmers, and the general public. Results of this forum will be incorporated into a National Plan of Action; setting forth the future strategy for managing and communicating this issue to local and international audiences.

Local capacity will be built through the training of the local Project Officer and field assistants. Education materials, seminars and media outlets will be used to disseminate information acquired through research, consultation and community engagement to the broader community. A Species Action Plan will be developed for the Striated Caracara articulating a conservation strategy, goals, and supporting actions for this species' recovery and maintenance.

Why is the project important for the conservation of biodiversity? (150 words)

In addition to being important scavenger species, raptors are the primary native 'terrestrial' predators in the Falkland Islands. During the winter months, food resource constraints resulting from the absence of colonial nesting seabirds coincides with Striated Caracara and Southern Caracara incursions into human settlements, primarily sheep farms. While their removal from the ecosystem could benefit sheep farmers it could have seen consequences for terrestrial and marine bird populations, and the broader ecosystem.

This project will seek to develop a defensible and reasoned approach to management of raptors in the Falkland Islands. This project aims to support wildlife management decisions and reduce the lethal control of raptors through improved understanding of raptor ecology and their interactions with agriculture and tourism.

Reducing the lethal control of Striated Caracara in conjunction with ongoing habitat restoration efforts could facilitate a return of the species to historical breeding sites within the Falkland Islands.

13. How will the results of the project be disseminated; how will the project be advertised as a Darwin project and in what ways will the Darwin name and logo be used? (max 200 words)

The Darwin Initiative will be acknowledged on all print, visual and web-based materials associated with the project. This will also apply to any publicity efforts undertaken by project partners.

Within the Falkland Islands, progress and results will be disseminated through:

- 1) Regular print articles in the national newspaper, *The Penguin News*,
- 2) Interviews with international advisors and Project Officer on Falkland Islands Radio Service,
- 3) Several project updates and documentaries on Falkland Islands Television, and
- 4) Regular updates to farming community in a rural newsletter, *The Wool Press*.

Regionally, FC will promote the project through the BirdLife Partnership; disseminating information and advertising this Darwin project and the Darwin Initiative throughout the Americas.

Internationally, project partners will publicise and promote the project through their existing networks, websites, newsletters, and magazines. FC will publicise the project on our website, in our members' newsletter, and in our twice annual magazine. The project will also publish at least 3 peer-reviewed articles and aims to produce an educational DVD.

Technical, popular, and educational publications arising from the project will carry the Darwin Initiative logo and hyper link, and acknowledge the contribution of the Darwin Initiative.

14. What will be the long term benefits (particularly for biodiversity and local communities) of the project in the host country or region and have you identified any potential problems to achieving these benefits? (max 200 words)

Benefits

Effective and informed raptor management policies and practices will lead to a reduction in conflicts with rural livelihoods. Reductions in livestock depredation and the quantity of raptors shot annually as a result of perceived conflicts are two of the anticipated benefits of this project. Engagement of stakeholders and improved dialogue among interest groups will provide a foundation for integrating conservation objectives within the Falkland Islands Rural Development Strategy. Guidance and mentoring of the Project Officer and local assistants will further the development of a conservation community.

FIG is currently pursuing the establishment of a South Atlantic Environmental Research Institute in the Falkland Islands. By raising the profile of raptor science and conservation in the Falklands, this project can generate further interest in that initiative.

Problems

There remains a long standing and widely held belief among the Falklands' farming community that raptors adversely affect livestock, and that lethal control of raptors is the best management option. Conversely, the conservation community is sceptical that shooting of raptors is an effective practice. Further, conservationists are concerned that unreported shooting of raptors is affecting local populations. Reconciling these divergent perspectives will require a stakeholder sensitive approach with local involvement at all levels.

15. State whether or not the project will reach a stable and sustainable end point. If the project is not discrete, but is part of a progressive approach, give details of the exit strategy and show how relevant activities will be continued to secure the benefits from the project. Where individuals receive advanced training, for example, what will happen should that individual leave? (Max 200 words)

This project will address two priorities of the Falkland Islands Biodiversity Strategy: shooting of raptors to protect livestock, and development of a *Species Action Plan for Striated Caracara* – providing a foundation for conservation efforts and encouraging the return of this species to its historical distribution. The project will culminate with the development of a *National Plan of Action for managing conflicts between raptors and rural livelihoods*. A diverse Project Steering Committee will encourage adoption of policy changes within rural communities.

Project advisors will mentor a local individual in conservation science. The skills and experience acquired will enable that individual to sustain a career in conservation science within the Falklands. Education and outreach materials will further augment the project's legacy.

This project will improve our understanding of Falklands Islands' raptors, producing several publications and stimulating further research. Increased technological capacity and a heightened profile of raptor research in the Falklands will support the establishment of a South Atlantic Environmental Research Institute.

This project builds upon a Challenge Fund project that resolved fundamental questions regarding practicalities of raptor research in the Falkland Islands, and opened a dialogue on the long standing conflict with rural livelihoods. One manuscript was published in 2011.

16. If your project includes capacity building in local communities in the host country, please indicate how you will assess the training needs in relation to the overall purpose of the project. Who are the target groups? How will the training be delivered? What skills and knowledge you expect the beneficiaries to obtain and how these may be used beyond the life of the project and any wider application. How will you measure training effectiveness. (max 300 words)

You should address each of these points.

Assessing training needs

During the Darwin Challenge Fund project training needs of the Project Officer were assessed by FC, HMS, and RZSS. Once the Project Officer is recruited for this position he/she will undergo a similar training needs assessment. Local volunteers and field assistants will receive training as needed.

Target groups

The primary recipient of training initiatives will be the Project Officer. In addition, a number of volunteer field assistants may receive training in basic field biology techniques (e.g. sampling feathers, blood, or attaching tracking devices). This project seeks to maintain a strong community aspect, thus all local persons involved with it will be eligible to receive training in order to broaden the community's understanding of species being studied and the techniques employed.

Delivery of training

Training will be delivered by technical advisors from the RZSS, RSPB, HMS, FC, Boise State University, and EDM Inc. Training will encompass practical field training, seminars, and one on one mentoring in office, laboratory, and field settings. FC's Education Officer will be mentored by the RSPB's International Education Manager.

Skills and knowledge obtained

Field and Office Skills

- Capture, handling and tagging of raptors
- Tracking of raptors using radio telemetry
- Collection of tissue, blood, and feather samples from raptors
- Attachment of satellite and GPS tracking equipment, and subsequent recovery of devices,
- Processing of data and statistical analysis
- GIS mapping, using data collected
- Public engagement, presentations, and development of education and outreach materials.

Measuring effectiveness

Training staff will evaluate the effectiveness of training through observation of competency in field scenarios. Longer term, the effectiveness of training and success of the project can also be measured by the quantity and quality of peer-reviewed publications produced by locally trained conservation professionals

LOGICAL FRAMEWORK

17. Please entser the details of your project onto the matrix using the note at Annex 3 of the Guidance Note. This should not have substantially changed from the Logical Framework submitted with your Stage 1 application. Please highlight any changes. (Use no smaller than Arial 10 pt)

Project summary	Measurable Indicators	Means of verification	Important Assumptions
			CBD), the Convention on Trade in Endangered by countries rich in biodiversity but constrained
Sub-Goal : Improved knowledge and protection of raptors, including a reduction of conflicts with human livelihoods in the Falkland Islands.	 Farmers' perceived livestock conflicts with raptors. Annual requests (#) for raptor destruction permits. 	Data from lambing death surveys. Landowner attitude surveys. Destruction permits data from Environmental Planning Department.	
Purpose To provide a scientific basis for government policy regarding management of conflicts between raptors and rural livelihoods in the Falkland Islands.	Tracking logs, behavioural obs. #s of publications. Government changes, adapts, or enacts policies to reduce conflict between raptors and livelihoods.		Landowners participate; allow access to land for research purposes. Ongoing government and institutional support in the Falklands and overseas. Project personnel publish research and draft policies within project timeline.
Outputs (add or delete rows as necessary) 1. Advance understanding of Falklands' raptors' biology, ecology, biogeography, and behaviour in relation to agricultural livelihoods.	 Census of target species. GIS database of predatory bird distribution/movements populated. Research papers: demographics, distribution, livelihood interactions. 	Report of species populations and distributions. Peer reviewed manuscripts appear in raptor research, conservation, and wildlife management journals.	Tracking technology remains effective, technical support for establishing GIS database. Project partners maintain commitment to project schedule.
2. Raise public awareness and understanding of the ecological role of raptors.	 4+ community seminars. 4+ presentations at schools. Opportunities to help w/ research. Project publicity in local media. 	Attendance lists, reports, transcripts. Public surveys before/after project. Reports/presentations available on FC website. Media appearances. Influence on government policy.	Farmers and members of public willing to participate in attitude surveys at onset and completion of project. Public interested to improve knowledge.
3. Species Action Plan for Striated Caracara.	 Striated Caracara workshop. FIG policies support conservation of Striated Caracara. 	Report of workshop. Species Action Plan for Striated Caracara published and endorsed by FIG.	Methods trialled in Challenge Fund project continue to be successful. Political support of Species Action Plan.
4. National Plan of Action for managing conflicts between raptors and rural livelihoods.	 Participatory workshop regarding impact of raptors on livelihoods. FIG policies support conservation of raptors. 	National Plan of Action – Managing conflicts between raptors and rural livelihoods published and endorsed.	Research supports alternative management practices for raptor – livelihood interactions. Government and community willing to consider adjustments to policy.

Activities (details in workplan)

1. Advance understanding of Falklands' raptors' biology, ecology, biogeography, and behaviour in relation to rural livelihoods.

- 1.1 Comprehensive survey of rural (camp) residents to establish patterns of interactions between raptors and livelihood activities, including sheep farming.
- 1.2 Assessment of past, current and potential economic impacts associated with raptor livelihood conflicts.
- 1.3 Census of Striated Caracara and Southern Caracara populations.
- 1.4 Establish and populate GIS database of raptor distribution and abundance across the Falkland Islands.
- 1.5 Investigate seasonal and spatial variation of raptor behaviour, biology, ecology in the presence and absence of livestock.
- 1.6 Disseminate project outcomes through peer-reviewed journals, project network websites, and conference presentations.

2. Raise public awareness and understanding of the ecological role of raptors.

- 2.1 Comprehensive survey of rural (camp) residents to establish current understanding of rural perspectives and concerns.
- 2.2 Interviews with stakeholder groups to establish societal understanding of raptors, and what concerns people might have about raptor management.
- 2.3 Host public presentations/seminars regarding raptor ecology and project objectives.
- 2.4 Develop outreach materials that address common perceptions about raptors, and provide information on the role of raptors within the ecosystem.
- 2.5 Establish framework for individuals to report raptor observations.
- 2.6 Engage local people in raptor research, and highlight opportunities for people to follow project progress through local media.

3. Species Action Plan for Striated Caracara.

- 3.1 Complete comparative winter ecology study of Striated Caracara in the presence/absence of sheep farming
- 3.2 Monitor distribution, foraging, and breeding sites of Striated Caracara and summarise in relation to historical distribution/population
- 3.3 Collate and summarise perspectives on Striated Caracara from stakeholder interviews
- 3.4 Host Striated Caracara workshop
- 3.5 Draft Striated Caracara Action Plan including funding strategy
- 3.6 Community consultations regarding draft action plan, revisions, and submission to FIG for approval

4. National Plan of Action for managing conflicts between raptors and rural livelihoods.

- 4.1 Collate and summarise stakeholder perspectives regarding conflicts between raptors and rural livelihoods.
- 4.2 Conduct an economic valuation of raptor impacts upon rural livelihoods (positive and negative).
- 4.3 Host workshop to summarise key issues, and incorporate full spectrum of perspectives within National Plan of Action.
- 4.4 Draft "National Plan of Action" and undertake public consultation of draft document.
- 4.5 Revise "National Plan of Action" and present to Environment Committee for endorsement and submission to Executive Council

18. Provide a project implementation timetable that shows the key milestones in project activities.

	. Provide a project implementation timetable that sho	W S LITE	ne y			1103		51 O j	COL	uot.	1			
	Activity		Year 1			ı	Year 2				Year 3			
		Mths	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4
A.1	Recruitment of Project Officer.	1	Х											
A.2	Establish Project Steering Committee.	NA	Х											
A.3	Project Steering Committee Meetings.	12	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
A.4	Reports to Darwin Initiative.	12	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
A.5	Procure and refurbish research equipment	4	Х				Х							
1.1	Survey of rural residents to establish patterns of interactions between raptors and rural livelihoods.	3-4		Х	Х									
1.2	Assessment of past, current and potential economic impacts associated with raptor – livelihood conflicts.	2-3				Х	Х							
1.3	Census of Striated Caracara & Southern Caracara.	2			Х				Х					
1.4	Establish and populate GIS database of raptor distribution and abundance across the Falklands.	3-4				Х	Х			Х	Х			
1.5	Investigate seasonal and spatial variation of raptor behaviour, biology, ecology in the presence and absence of livestock.	2		X				X				X		
1.6	Disseminate project outcomes through peer-reviewed journals, project network websites, and conferences.	6				Х	Х	Х	Х	Х	Х	Х	Х	Х
2.1	Survey of rural residents to establish current understanding of rural perspectives and concerns.	3		Х	Х	Х								
2.2	Interview stakeholders to establish societal understanding of raptors, and document concerns about raptor management.	3		X	X	Х								
2.3	Public presentations regarding raptor ecology/project.	3		Х				Х				Х		
2.4	Develop outreach materials that address perceptions about raptors, and inform public about their ecology.	8	Х	Х			Х	Х			Х	Х		
2.5	Establish system for public to report raptor observations.	1		Х										
2.6	Engage public in research & promote opportunities for people to follow project progress through local media.	5		Х	Х			Х	Х				Х	
3.1	Complete winter ecology study of Striated Caracara in the presence/absence of sheep farming.	3		Х				Х						
3.2	Monitor distribution, foraging, and breeding sites of Striated Caracara.	3			Х				Х					
3.3	Summarise stakeholder perspectives on Striated Caracara.	1					Х				Х			
3.4	Host Striated Caracara workshop.	1									Х	Х		
3.5	Draft Striated Caracara Action Plan.	2						Х				Х	Х	
3.6	Community consultations regarding draft action plan, revisions, and submission to FIG for approval.	2											Х	Х
4.1	Summarise stakeholder perspectives regarding conflicts between raptors and rural livelihoods.	3	Х				Х				Х			
4.2	Assess economic impacts of raptors on rural livelihoods.	2	Х								Х		•	
4.3	Host workshop to summarise key issues, and incorporate full spectrum of perspectives within National Plan of Action.	1										X		
4.4	Draft "National Plan of Action", undertake consultation.	3						Х	-			Х	Х	
4.5	Present "National Plan of Action" to Env. Committee.	2											Χ	Х
				i			i							

19. Please indicate which of the following Standard Measures you expect to report against by providing indicative figures. These will help gauge project achievements if you receive funding. You will not necessarily plan to cover all these Standard Measures in your project. Separate guidance on Standard Measures can be found at http://darwin.defra.gov.uk/resources/reporting/standard_measures/

	ard Measures can be found at http://darwin.defra.gov.uk/resources/reporting/standard_measure	
Standard Measure	Description	Estimate
1A	Number of people to submit thesis for PhD qualification (in host country)	0
1B	Number of people to attain PhD qualification (in host country)	0
2	Number of people to attain Masters qualification (MSc, MPhil etc)	2
3	Number of people to attain other qualifications (ie. Not outputs 1 or 2 above)	0
4A	Number of undergraduate students to receive training	1-2
4B	Number of training weeks to be provided	8-10
4C	Number of postgraduate students to receive training	2
4D	Number of training weeks to be provided	18-20
5	Number of people to receive at least one year of training (which does not fall into categories 1-4 above)	0
6A	Number of people to receive other forms of education/training (which does not fall into categories 1-5 above)	100+
6B	Number of training weeks to be provided	1-2
7	Number of (ie different types - not volume - of material produced) training materials to be produced for use by host country	3
8	Number of weeks to be spent by UK project staff on project work in the host country	24
9	Number of species/habitat management plans (or action plans) to be produced for	2
	Governments, public authorities, or other implementing agencies in the host country	_
10	Number of individual field guides/manuals to be produced to assist work related to species	1
	identification, classification and recording	
11A	Number of papers to be published in peer reviewed journals	3
11B	Number of papers to be submitted to peer reviewed journals	3
12A	Number of computer based databases to be established and handed over to host country	0
12B	Number of computer based databases to be enhanced and handed over to host country	1
13A	Number of species reference collections to be established and handed over to host country(ies)	0
13B	Number of species reference collections to be enhanced and handed over to host country(ies)	0
14A	Number of conferences/seminars/ workshops to be organised to present/disseminate findings	2
14B	Number of conferences/seminars/ workshops attended at which findings from Darwin project work will be presented/ disseminated.	2
15A	Number of national press releases in host country(ies)	8
15B	Number of local press releases in host country(ies)	8
15C	Number of national press releases in UK	2
15D	Number of local press releases in UK	0
16A	Number of newsletters to be produced	18
16B	Estimated circulation of each newsletter in the host country(ies)	100+
16C	Estimated circulation of each newsletter in the UK	500+
17A	Number of dissemination networks to be established	0
17B	Number of dissemination networks to be enhanced/ extended	4
18A	Number of national TV programmes/features in host country(ies)	4
18B	Number of national TV programmes/features in UK	0
18C	Number of local TV programmes/features in host country(ies)	4
18D	Number of local TV programmes/features in UK	2
19A	Number of national radio interviews/features in host county(ies)	6-8
19B	Number of national radio interviews/features in UK	2
19C	Number of local radio interviews/features in host country(ies)	8
19D	Number of local radio interviews/features in UK	1
20	Estimated value (£'s) of physical assets to be handed over to host country(ies)	18000
21	Number of permanent educational/training/research facilities or organisations to be	0
22	established and then continued after Darwin funding has ceased Number of permanent field plots to be established during the project and continued after	1
23	Darwin funding has ceased	261006
23	Value of resources raised from other sources (ie in addition to Darwin funding) for project work	201000

PROJECT BASED MONITORING AND EVALUATION

20. Describe, referring to the Indicators in the Logical Framework, how the progress of the project will be monitored and evaluated, including towards delivery of its outputs and in terms of achieving its overall purpose. This should be during the lifetime of the project and at its conclusion. Please include information on how host country partners will be included in the monitoring and evaluation.

1. Advance understanding of Falklands' raptors' biology, ecology, biogeography, and behaviour in relation to agricultural livelihoods.

Progression of scientific understanding of raptor biology, ecology, and behaviour will be monitored through assessment of track logs, data sets, and resultant publications. A minimum of 1 manuscript will be submitted for peer-review during each year of the project.

The total progression of understanding will be reflected in the changes or adaptations government is willing to incorporate in policy and practice with respect to management of raptor-livelihood conflicts. Policy statements and management practices will be assessed at project completion and contrasted with those in place at the onset of the project.

A GIS database will be established for each species, indicating current breeding sites, foraging locations, and winter/summer movements.

A census of Striated Caracara and Southern Caracara will provide up to date information on populations for each of these species, and underpin scientifically defensible management actions for these two raptor species.

2. Raise public awareness and understanding of the ecological role of raptors.

Public awareness and comprehension of the conflict between raptors and rural livelihoods will be assessed in a number of ways. Firstly, early-project interviews and quantification of stakeholder and public perceptions will provide a baseline against which to measure progression of attitudes and knowledge.

Summaries of public presentations, lists of attendees, and volunteer rosters for the project will provide a means of assessing direct engagement with the community. In addition, transcripts of radio interviews, TV interviews, and print media profiles of the project will document messaging throughout and facilitate assessment of the target audiences reached.

The development and incorporation of education materials within the school curriculum and lesson plans will enable the Steering Committee to assess the timeliness and effectiveness of youth outreach activities.

3. Species Action Plan for Striated Caracara.

The development of a species action plan for Striated Caracara will require numerous iterations, thus the Project Steering Committee should be able to track progression towards this output throughout the project.

Major milestones in the first year are completion of winter ecology study and comparison of sheep/non-sheep ecosystems, breeding season census and mapping of preferred nesting habitats. The preparation of manuscripts in relation to Striated Caracara ecology will also indicate progress is being made towards a Species Action Plan.

Participation and interest in the workshop being hosted for preparation of the Action Plan, and proceedings from those meetings will also be used to track progress. Lastly, the development of a draft Action Plan, minutes of consultation meetings in relation to that draft, and subsequent presentation of the Action Plan to the Environment Committee are clear milestones against which to track progress and achievement.

4. National Plan of Action for managing conflicts between raptors and rural livelihoods.

Development of a National Plan of Action will require numerous iterations, thus the Project Steering Committee will track progression towards this output throughout the project.

Major milestones in the first year are completion of stakeholder interviews and field studies, and the submission of manuscripts to peer-reviewed journals. Field reports documenting interactions between raptors and rural livelihoods will be submitted to the Steering Committee by the Project Officer once per quarter.

A workshop will be convened to compare attitudes and perceptions with field observations and determine (as a community) appropriate management actions to be embedded within government policy. Proceedings of that workshop and the subsequent policy drafted by the Project Officer and Environmental Planning Officer will be a milestone against which the Steering Committee can measure progress.

FUNDING AND BUDGET

Please complete the separate Excel spreadsheet which will provide the Budget information for this application. Some of the questions below refer to the information in this spreadsheet.

NB: Please state all costs by financial year (April to March). Use current prices – and include anticipated inflation, as appropriate, up to 3% per annum. The Darwin Initiative cannot agree any increase in grants once awarded.

21. How is your organisation currently funded? (max 100 words)

Falklands Conservation is a registered charity that is funded by a combination of voluntary income (92%) sale of goods and publications (7%), and investment income (1%). Forty-three percent of voluntary income is unrestricted, while the remainder is associated with restricted-fund projects. FC's total income for the financial year ended 30 June 2010 was £433,116 against expenditure of £401,156.

22. Provide details of all <u>confirmed</u> funding sources identified in the Budget that will be put towards the costs of the project, including any income from other public bodies, private sponsorship, donations, trusts, fees or trading activity. Please include any additional <u>unconfirmed</u> funding the project will attract to carry out addition work during or beyond the project lifetime. Indicate those funding sources which are confirmed.

Confirmed:						
Organisation 201	1/12	2012/13	2013/14	2014/15	2015/16	Total
		£	£	£		£
Falklands Conservation		58,483	33,800	33,300		125,583
		£	£	£		£
Royal Society for Protection of Birds		4,694	2,838	3,766		11,298
		£	£	£		£
Royal Zoological Society of Scotland		3,950	2,500	3,100		9,550
		£	£	£		£
Falkland Islands Government		12,000	12,000	12,000		36,000
		£	£	£		£
Hawk Mountain Sanctuary		13,125	13,125	13,125		39,375
		£	£	£		£
Boise State University		7,500	7,500	7,500		22,500
EDM International (Dr. J		£	£	£		£
Dwyer)		5,000	5,000	2,500		12,500
		£	£	£		£
Rural Business Association (Stevens))	1,400	1,400	1,400		4,200
			£	£		£
		£106,152				261,006
llus a sufirma a di		100,132	10,103	76,691		201,000
Unconfirmed:	1/10	2212112	0010111	2211/1=	001=/10	
Organisation 201	1/12	2012/13	2013/14	2014/15	2015/16	Total
		£	£	£		£
National Birds of Prey Trust		5,000	5,000	5,000		15,000

23. Please give details of any further resources (confirmed or unconfirmed) for this project that are not already detailed in the Budget or Question 22. This will include donations in kind or un-costed support eg accommodation. (max 50 words per box)						
Possible additional financial re	sources (not yet applied for):					
None known.						
Funding in kind:						
Falklands Conservation will provide	de accommodation for all interna	ational advi	sors during the	ir stay in Stan	ley.	
FCO NOTIFICATIONS						
Please check the box if yo Commonwealth Office will nee success in the Darwin competing	ed to be aware of should the					
Please indicate whether you h discuss security issues (see 0 from them.						
Yes (no written advice)	Yes, advice attache	ed	No			
CERTIFICATION 2011/12						
On behalf of the trustees* of	Falklands Consei	rvation				
(*delete as appropriate)						
I apply for a grant of £178,986 the lifetime of this project base	•	•		•		
I certify that, to the best of our are true and the information probasis of the project schedule san individual authorised by the behalf.)	ovided is correct. I am aware thould this application be suc-	that this accessful. (<i>T</i>	application for This form shou	rm will form tl uld be signed	he <i>I by</i>	
I enclose CVs for project princi annual report are also enclosed		ur most re	ecent audited	accounts and	I	
Name (block capitals)	SARAH BRENNAN					
Position in the organisation	UK Executive Officer					
Signed Sarau3 renna		Date:	23 October	2011		

Stage 2 Application - Checklist for submission

	Check
Have you provided actual start and end dates for your project?	Yes
Have you provided your budget based on UK government financial years	Yes
ie 1 April – 31 March?	
Have you checked that your budget is complete, correctly adds up and	Yes
that you have included the correct final total on the top page of the	
application?	
Is the concept note within 1,000 words?	Yes
Is the logframe no longer than 3 pages and have you highlighted any	Yes
changes since Stage 1?	
Has your application been signed by a suitably authorised individual?	Yes
(clear electronic or scanned signatures are acceptable in the email, but a wet	
signature should be provided in the hard copy version)	
Have you included a 1 page CV for all the Principals identified at Question	Yes
5?	
Have you included a letter of support from the main overseas partner(s)	Yes
organisations identified at Question 5?	
Have you checked with the FCO in the project country/ies and have you	Yes
included any evidence of this?	
Have you included a copy of your most recent annual report and	Yes
accounts? An electronic link to a website is acceptable.	
Have you read the Guidance Notes ?	Yes
Have you checked the Darwin website immediately prior to submission to	Yes
ensure there are no late updates?	

Once you have answered Yes to the questions above, please submit the application, not later than midnight GMT on Monday **24 October 2011** to Darwin-Applications@ltsi.co.uk using the application number (from your Stage 1 feedback letter) and the first few words of the project title **as the subject of your email**. However, if you are e-mailing supporting documentation separately please include in the subject line an indication of the number of e-mails you are sending (eg whether the e-mail is 1 of 2, 2 of 3 etc). **In addition**, a hard copy of the signature page should be submitted to Darwin Applications, c/o LTS International, Pentlands Science Park, Bush Loan, Penicuik EH26 OPL **postmarked** not later than Tuesday 25 October 2011.

DATA PROTECTION ACT 1998: Applicants for grant funding must agree to any disclosure or exchange of information supplied on the application form (including the content of a declaration or undertaking) which the Department considers necessary for the administration, evaluation, monitoring and publicising of the Darwin Initiative. Application form data will also be held by contractors dealing with Darwin Initiative monitoring and evaluation. It is the responsibility of applicants to ensure that personal data can be supplied to the Department for the uses described in this paragraph. A completed application form will be taken as an agreement by the applicant and the grant/award recipient also to the following:- putting certain details (ie name, contact details and location of project work) on the Darwin Initiative and Defra websites(details relating to financial awards will not be put on the websites if requested in writing by the grant/award recipient); using personal data for the Darwin Initiative postal circulation list; and sending data to Foreign and Commonwealth Office posts outside the United Kingdom, including posts outside the European Economic Area. Confidential information relating to the project or its results and any personal data may be released on request, including under the Environmental Information Regulations, the code of Practice on Access to Government Information and the Freedom of Information Act 2000.