



DARWIN INITIATIVE

APPLICATION FOR GRANT FOR ROUND 12 COMPETITION: STAGE 2

Please read the Guidance Notes before completing this form. Give a full answer to each section; applications will be considered on the basis of information submitted on this form. Please do not cross-refer to information in separate documents except where invited on the form. The space provided indicates the level of detail required but you may provide additional information on a separate A4 sheet if necessary. Do not reduce the font size below 12pt or alter the paragraph spacing.

Submit by 19 January 2004

Ref (Defra only):

1. Name and address of organisation

WWF-UK, Panda House, Weyside Park, Godalming, Surrey, GU7 1XR

2. Project title (not exceeding 10 words)

Conservation of Eastern European medicinal plants: *Arnica montana* in Romania.

3. Principals in project. Please provide a one page CV for each of these named individuals.

Details	Project leader	Other UK personnel (if working more than 50% of their time on project)	Main project partner or co-ordinator in host country
Surname	Dr Schmitt	Dr Michler	Mihul
Forename(s)	Susanne	Barbara	Maria
Post held	International Plants Conservation Officer	Project Officer	Forest Officer
Institution (if different to above)			WWF – DCP Romania
Department	IPCU	IPCU	
Telephone			
Fax			
Email			

4. Describe briefly the aims, activities and achievements of your organisation. (Large institutions please note that this should describe your unit or department)

Aims

The WWF-UK International Plants Conservation Unit (IPCU) seeks to identify key issues in global plant conservation and works with partners towards their solution.

Activities

The IPCU implements the People & Plants Initiative (PPI) (incl. Kenya woodcarving) building capacity globally for community involvement in plant conservation. In addition it advises CBD Secretariat on implementation of Global Strategy for Plant Conservation (GSPC) and leads consultation on revision of WHO/IUCN/WWF (1993) Guidelines on the Conservation of Medicinal Plants.

Achievements

Founding and successful running of PPI since 1992; identification of global Centres of Plant Diversity.

5. Has your organisation received funding under the Initiative before? If so, please give details.

Yes – see Annex 1.

6. Please list the overseas partners that will be involved in the project and explain their role and responsibilities in the project. The extent of their involvement at all stages in the project should be detailed, including in project development. Please provide written evidence of this partnership.

WWF Danube Carpathian Programme (WWF-DCP) – Romania Office, Bucharest, will provide project management and administration, and the main communication and outreach support for awareness raising, particularly with government officials and the general public. The project manager (Maria Mihul) & the protected area specialist (Erika Stanciu) will provide vital national expertise on Romanian nature conservation and biodiversity management issues. Conservation is currently a fast-moving field in Romania with considerable opportunities to shape its course. **University of Agricultural Sciences & Veterinary Medicine (USAMV), Cluj-Napoca, Romania:** The Department of Fodder Production & Conservation (FPC) within USAMV will be responsible for local implementation of research and training activities and for providing expertise and advice on sustainable agriculture and biodiversity management. USAMV will set up a local project office, in addition to providing meeting and accommodation facilities for all major project workshops/meetings. Both partners have been involved in all stages of project development. A project preparation visit took place in Nov. 2003 at which the Project Leader, WWF-DCP and USAMV met to discuss the aims of the project, plan activities and discuss logistics/administration. Letters of support from partners are attached.

7. What steps have been taken to (a) engage at all appropriate levels within the host country partner organisations to ensure full support for the project and its outcomes; and (b) ensure the benefits of the project continue despite staff changes in these organisations?

A) Strong relationships have been formed with USAMV through previous collaboration, which has helped with appropriate engagement. As a result, during the preparation visit, meetings were held with the Head of the Dept. of FPC at USAMV, as well as with the prospective project staff to ensure full support. The head of office (Jonathan Hornbrook) of WWF-DCP is fully committed to the project and was involved in discussions relating to its design and administration along with members of WWF-DCP Romania team. **B)** The support letter from USAMV is signed by the Head of the University and FPC. It states that a more formal MOU, ensuring institutional commitment, will be developed if the project is funded. WWF-DCP will sign a detailed contract with WWF-UK that ensures institutional commitment.

8. What other consultation or co-operation will take place or has taken place already with other stakeholders such as local communities. Please include any contact with the government of the host country not already provided.

Some key-members of the **community of Gârda de Sus (GdS), Apuseni (project field site)** were consulted by the project leader during a preparation visit. They included the mayor, who agreed on the principle of a community partnership with the project. Consultations about *Arnica* stocks and medicinal plant quota setting were conducted with Dr G. Coldea, **Director of the Institute of Biological Research, Cluj-Napoca.** He expressed his support for the project and will be an advisor. Discussions were held with Dr Dan Munteanu, President of the **Commission for Natural Monuments, Academy of Science, Romania.** His agency issue export permits for medicinal & aromatic plants (MAP). He is involved in protected area planning, keen to see this project approved and be project advisor. A meeting was held with Dr Hans Jakob, GTZ Project manager of the **GTZ Apuseni Regional Development Project.** He indicated that this project will dovetail well with GTZ's activities in the project area. He offered the use of GTZ offices and logistical support, particularly in the establishment phase of the project. Letters of support from above mentioned agencies are attached. We are aware that the **administration of the 'Parc Natural Apuseni' (PNA)** is currently being set up and consultations will be held once this body is in place. Informal discussions have been held with **UK & German herbal companies,** potentially involved in community partnerships or adopting improved sourcing practices.

PROJECT DETAILS

9. Define the purpose of the project in line with the logical framework.

'To develop a model for the sustainable production and trade of *Arnica montana* resulting in benefits for biodiversity and livelihoods; the principles of which can be used to inform the development of conservation approaches and methodologies for other endangered medicinal and aromatic plants (MAP) and their habitats.

Arnica thrives in traditionally managed, biodiversity-rich mountain meadows in Romania. This project will develop a model that can be tested on other species. The model will have conservation benefits for habitats, extending beyond benefits for the targeted species.

10. Is this a new initiative or a development of existing work (funded through any source)?

This is a new initiative drawing upon initial research on *Arnica* distribution & stocks by the project officer as part of the sustainable development research project, 'Proiec Apuseni', a Romanian-German co-operation project (2000-2003).

11. How will the project assist the host country in its implementation of the Convention on Biological Diversity? Please make reference to the relevant article(s) of the CBD, thematic programmes and/or cross-cutting themes (see Annex C for list and worked example) and rank the relevance of the project to these by indicating percentages. Is any liaison proposed with the CBD national focal point in the host country? Further information about the CBD can be found on the Darwin website or CBD website.

This project will build a sustainable management and trading model for *Arnica montana*, benefiting biodiversity & local communities, based on the example of sustainable management of *Arnica* habitats the highly biodiverse mountain landscapes of Romania sustainably for the benefit of local communities and biodiversity. The project will support the Government of Romania to implement Articles 7 (10%), 8 (10%), 10 (10%), 11 (5%), 12 (10%) and 13 (10%) of the CBD. The thematic programme of the CBD, most relevant to the project is the 'Global Strategy for Plant Conservation' (GSPC; 30%), incl. its component European Strategy for Plant Conservation (ESPC; esp. target 3.1). Within the GSPC, the project will contribute to targets 11, 12 & 13, as well as to the cross-cutting capacity-building targets 3, 15-16. Other relevant CBD themes are 'Sustainable Use and Biodiversity' (10%) and 'Access and Benefit Sharing' (5%). A link with the Romanian CBD National Focal Point (Mrs Adriana Baz), Head of the Directorate for Pollution Control, Protection of Atmosphere, Soil, Nature and Biodiversity Conservation of the Ministry of Agriculture, Forests, Waters and Environment, will be established after project approval.

12. How does the work meet a clearly identifiable biodiversity need or priority within the host country? Please indicate how this work will fit in with National Biodiversity Strategies or Environmental Action Plans if applicable.

Romania is one of the most biodiversity-rich countries in Europe. It is rich in MAP, mostly found in traditionally managed, agricultural landscapes, long-lost in W. Europe through agricultural intensification. Such intensification (esp. with planned EU accession) is now threatening such landscapes & MAP in Romania (*Arnica* disappears with fertilisation of meadows). Since the collapse of communism, the MAP trade in the Balkans has become less regulated, raising the threat of over-harvest. The project will seek to raise motivation for conservation of biodiversity-rich habitats through demonstrating how they can be used for sustainable production of MAP with reasonable benefits to harvesters & landowners. The project fits in well with the National Biodiversity Strategy (NBS) for Romania, which identifies a need to conserve threatened species with a high economic value. The strategy specifically states that habitats with high values for MAP must be conserved and managed sustainably (p.17). It further states the need to involve NGOs and local communities in conservation programmes.

13. If relevant, please explain how the work will contribute to sustainable livelihoods in the host country

Arnica is a high value MAP harvested from mountainous regions of Romania. Currently, harvesters receive little income from its sale (1 Euro vs. retail 45 Euro per kg). Farmers, whose traditional management maintains *Arnica* habitat, currently receive no returns from *Arnica* sales. The project will work to increase interest in conservation of *Arnica* habitat through value-adding (better drying, storage) and strengthened community management (formation of a community-based Resource Management & Trade Association - RMTA). The RMTA will negotiate agreements between harvesters and farmers and more favourable terms with traders. Anticipated higher sales prices and fair distribution of benefits within the community will be incentives to maintain *Arnica* habitats.

14. What will be the impact of the work, and how will this be achieved? Please include details of how the project outputs will be disseminated and put into effect to achieve this impact.

Direct impact at GdS – strengthened management of *Arnica*, involving the RMTA that will co-ordinate monitoring populations of *Arnica*, set harvest quotas, ensure product quality, provide a framework for distribution of benefits, negotiate with traders and liaise with staff of the PNA. **Fair trade & established company partnership** – the project will assist the RMTA to establish a partnership with one or more companies prepared to purchase *Arnica* on favourable environmental and livelihood terms. **Spreading awareness about management/trading lessons in Apuseni, Romania & Balkans** - Materials with guidelines for harvesters, landowners/farmers and traders/manufacturers will be produced based on the lessons of the project. They will be used for outreach activities in (1) communities at Apuseni (incl. events in schools, churches & local markets) and (2) more widely in Romania and the Balkans for those involved with *Arnica* or other high-value MAP (through a national workshop, conference presentations, media contributions and dissemination through Planta Europa and MAP industry associations).

15. How will the work leave a lasting legacy in the host country or region?

Establishment of RMTA will become the key local institution responsible for *Arnica* sust. & trade. It will set harvest quotas & influence management regimes based on an *Arnica* management plan. PNA administration will be involved in the RMTA and the development of the *Arnica* management plan. The project will encourage park administration to incorporate the *Arnica* plan into the wider PNA management plan which they are required to develop. Host country partners & relevant government agencies will be enabled to adopt and adapt methods, approaches and systems established for *Arnica* at Apuseni to other regions and other MAP or NTFP species. Engagement with Planta Europa, European herbal companies & associations – project lessons will be spread through the Planta Europa network through presentation of a case study; the company partnership will set a much needed precedent of how to conduct sustainable sourcing partnerships in the herbal trade sector in practice. With sufficient publicity and dissemination of lessons, other companies and associations will be able to adapt & adopt these efforts in Romania, the Balkans and elsewhere. This project will act as a catalyst for other projects working on the interface between agriculture and nature conservation.

16. What steps have been taken to identify and address potential problems in achieving impact or legacy?

Community buy-in: setting up an effective, community-based RMTA is a challenge. The project will help the community to develop the RMTA and establish management/harvest prescriptions through adopting a fully participatory approach. **Company/trader support:** Relatively little awareness of environmental & social aspects of resource use and ethical consumerism might be an initial barrier for Romanian traders and regional companies to take up lessons from the project. Vigorous awareness raising of the need for environmentally and socially sustainable trade, will help sensitise the herbal industry in W. Europe and the Balkans. This will be supported by the wider work of WWF on MAP sustainability. **Buy-in from PNA administration:** the park might be hesitant to incorporate the *Arnica* management plan in the wider management plan of the PNA and play an active role in the RMTA, incl. because of inexperience with community-based approaches. From the beginning, the project will consult, involve & train park staff and call on the expertise of WWF-DCP staff in working with park staff & getting political support at Ministry level.

17. How will the project be advertised as a Darwin project and in what ways would the Darwin name and logo be used?

The Darwin logo will be used on the project vehicle, project stationary, posters, leaflets, the harvester manual, the *Arnica* management plan and any other publication produced. Funding will also be acknowledged during presentations at conferences and other meetings. The project will be featured on the PPI WWF-UK Research Centre web-sites.

18. Are you aware of any other individuals/organisations carrying out similar work? Are there completed or existing Darwin Initiative projects which are relevant to your work? Please give details, explaining the similarities and differences and how your work will be distinctive and innovative. Show how the outputs and outcomes of this work will be additional to any similar work, and what attempts have been/will be made to co-operate with such work for mutual benefits.

We are not aware of other projects focusing on sust. use & trade of MAP. The project is distinctive and innovative, because it looks at the whole supply chain for *Arnica* from producer to consumer, and addresses biological conservation taking due account of the socio-economic concerns of harvesters and land-owners, and the commercial needs of traders and companies. Most MAP projects do not take a holistic approach, focusing either on the ecol. question of 'what is the sustainable yield' or focus on trade & economic aspects, such as quantifying the trade chain and its financial worth.

19. Will the project include training and development? Please indicate who the trainees will be and criteria for selection. How many will be involved, and from which countries? How will you measure the effectiveness of the training and will those trained then be able to train others? Where appropriate give the length and dates (if known) of any training course. How will trainee outcomes be monitored after the end of the training?

200 *Arnica* harvesters and 300 farmers with significant *Arnica* populations on their land will be trained in sustainable harvest practices and links between meadow management and healthy *Arnica* populations. During the main *Arnica* flowering season (June/July; yr 1-3) intensive practical training of harvesters on sust. harvesting practice and post-harvest treatment (e.g. drying) will take place. More formal training on sust. harvesting of *Arnica* and management of its habitat will be scheduled from autumn to spring (yr 1-3) when farming activity is lowest. Project staff will observe changes in harvesting practice and management during the life-time of the project. The RMTA, which will be in charge of monitoring harvesting levels & management practices, will receive training so it can train its members. The capacity of 3 young Romanian researchers will be built through on-the-job-training in community-based and inter-disciplinary approaches to conservation and also in technical skills such as biodiv. monitoring, trade chain & econ. analyses. 2 of them will registered for MSc.s. These young professionals are likely to take jobs in academia, government or the NGO sector in Romania, when they will be able to use their acquired skills. At least 2 park staff will be included in training activities. After project completion the IPCU will contact trainees & former project staff to establish the sustainability and impact of training & capacity building of the project.

20. How are the benefits and/or work of the project expected to continue after the end of grant period? Please provide a clear exit strategy.

Locally, emphasis on developing an effective and accepted RMTA will be key to the continuation of sustainable *Arnica* harvest & benefits derived from value-adding (e.g. drying), & increased bargaining power with traders. Active participation of park staff and commitment to integrate the *Arnica* management plan in the wider management plan for the PNA will help institutionalise the work. Nationally & regionally, it is important that the model for sustainable production and trade is credible. If so and provided it is well disseminated it should help in stimulating more favourable conservation practices by companies and adoption of more integrated and community-based habitat management approaches for MAP. This is why prominence is given to awareness raising and dissemination of project results in Romania and internationally in yr 3.

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

Project implementation timetable		
Date	Financial year: Apr-Mar 2004/5 Apr-Mar 2005/6 Apr-Mar 2006/7	Key milestones
April 04	04/05	Project initiation & planning workshop
Aug. 04	04/05	Formation of local project advisory group
By March 05	04/05	Sensitisation of harvesters, farmers, park staff, traders & companies completed
June-July 04	04/05	Harvester & farmer training in sustainable harvest & management (1 st year)
Dec. 04	04/05	Production of first poster for GdS community
March 05	04/05	First annual review & planning workshop; annual workplan
June 05	05/06	Demonstration plant drying house constructed
June-Oct 05	05/06	Draft producer (harvester & farmer) manual developed & tested; training of harvesters & farmers (2 nd yr)
Oct 05	05/06	Research completed & documented on (1) ecol. sustainability of <i>Arnica</i> & link to farm management & tenure type, (2) supply chain, (3) drying & storing of <i>Arnica</i> , & (4) socio-economic context & community attitudes at GdS
Oct 05	05/06	Draft <i>Arnica</i> management plan produced & distributed for comments & testing
Nov. 05	05/06	Draft sourcing guidelines produced for comments
Dec. 05	05/06	Resource Management & Trade Association (RMTA) at GdS established
Jan. 06	05/06	Second poster for GdS community
March 06	05/06	Second annual review & planning workshop; annual work plan
Aug. 06	06/07	Demonstration plant drying house testing completed
Sept. 06	06/07	Producer manual finalised, & harvester & farmer training completed
Oct. 06	05/06	2 Master theses submitted
Oct. 06	06/07	<i>Arnica</i> management plan finalised
Oct. 06	06/07	Sourcing guidelines completed & disseminated
Nov. 06	06/07	National workshop held to discuss & develop sust. management & trade model
Jan. 07	06/07	RMTA/company trading partnership(s) negotiated & tested
Feb. 07	06/07	2 Project review & wrkshop, with evaluation (1 project staff; 1 community/RMTA/park)
March 07	06/07	Peer-reviewed paper submitted
March 07	06/07	Case study documented & disseminated through Planta Europa (contrib. to Target 3.1 of the European Strategy for Plant Conservation)
	04/05-06/07	Conference presentations & workshops attended to raise awareness

22. How will the most significant outputs contribute towards achieving the purpose of the project? (This should be summarised in the Log Frame as Indicators at Purpose level)

The creation of an effective RMTA in GdS is essential for making agreements with farmers & harvesters for sustainable harvest & management, ensuring fair distribution of benefits within the community (thus giving added incentives for conservation), reaching agreements with buyers & settling disputes. Whether the model is working will be indicated by the percentages of harvesters and farmers who adopt appropriate practices and also whether a favourable agreement with a company can be reached. The wider applicability of the model will be gauged through its reception among potential users, once it has been documented and disseminated.

23. Set out the project's measurable outputs using the separate list of output measures

PROJECT OUTPUTS		
Year/Month (starting April)	Standard Output Number (see standard output list)	Description (include numbers of people involved, publications produced, days/weeks etc)
04/04 – 06/10	2: attain Masters	2 Romanian project staff to obtain masters
04/06 – 06/12	5: fieldwork & analysis	3 Romanian project staff trained in fieldwork & analysis
04/06 -06/12	6A: training	200 harvesters, 300 farmers, 2 park staff receive training; 5 workshops/yr; 2 thematic training events per yr (e.g. value adding)
06/09; 06/10	7: manual & guidel.	1 <i>Arnica</i> producer manual; 1 set sourcing guidelines
04/04 – 07/03	8: no. weeks in host c.	project leader: min. of 3 w/yr; project officer: min. 4 w/yr
06/10	9: mngment plan	1 <i>Arnica</i> management plan
07/03	11B: submitted papers	1 peer-reviewed paper submitted
04/04-07/01	14A: wkshop organ.	1 national wkshop in host country to discuss model; 2 annual review & planning wkshop /yr (incl. park staff); 2 final project reviews & wkshops (1 with project team, 1 with community/ RMTA/park staff)
05/01-07/03	14B: conf., wks, semin.	2 international conferences; at least 4 wrkshps & seminars attended
04/04-07/03	15A: nat. press release	at least 5 press releases in host country
04/04-07/03	15C: UK nat. press r.	at least 2 press releases in UK
04/04-07/03	18C: local TV host c.	at least 1 local TV programme/feature on project
04/04-07/03	19A: radio, host c.	at least 2 national radio interviews/features in host country
04/04-07/03	19C: local radio, host	at least 2 local radio interviews/features in host country
04/04-06/08	20: physical outputs	1 4WD vehicle; at least 1 plant drying house & equipment; computer equipment (total: £ 27,600)
05/12	21: organisation est.	1 Resource Management & Trading Association established at GdS
04/04-07/03	23: addit. Funding	WWF-UK match: £ 67,523; in-kind: £ 563 & waiving of 7.5% mngm. fee USAMV match in-kind: WWF-DCP: £1,479; waiving of 7.5% mngm. fee; GTZ in-kind £ 2,000
07/01	no output no:	At least 1 company/RMTA trade agreement for <i>Arnica</i>

MONITORING AND EVALUATION

24. Describe how the progress of the project, including towards delivery of outputs, will be monitored and evaluated in terms of achieving its overall purpose. This should be both during the lifetime of the project and at its conclusion. Please make reference to the indicators described in the Logical Framework.

During the lifetime of the project, annual project review & planning workshops (March each yr) that will bring together all project team members, incl. relevant advisors & park staff, will serve as important events to monitor & evaluate progress towards delivery of the outputs. A detailed annual workplan will be produced (March each yr). It will focus on major outputs and key milestones and respective staff responsibilities for the forthcoming year. A final review workshop will evaluate achievements and discuss follow-up work by host country partners and other interested parties. A workshop report will be produced. The logframe will be used as a check on progress. The project officer will make frequent field visits and report regularly to the project leader, who will visit Romania at least twice a year.

25. How will host country partners be involved in monitoring and evaluation of the project?

WWF-DCP will produce 6-monthly technical reports for WWF-UK. The local co-ordinator, based with the USAMV, the other host-country partner, will be responsible for gathering and feeding information on progress and difficulties encountered to WWF-DCP. The project leader and UK project officer will be in regular e-mail and phone contact with the WWF-DCP project manager & USAMV local co-ordinator to receive updates on the work. They will regularly evaluate successes, threats, failures & lessons. These will be captured for reporting to Darwin.

26. How will you ensure that the project achieves value for money?

Quarterly financial reports from WWF-DCP Romania, the host country partner responsible for financial reporting, will ensure that money is spent appropriately and timely. The local coordinator will be responsible for much of the local project expenditure, ensuring smooth running of operations, vital to achieve value for money. To ensure that expenditure is clearly linked to achievements, WWF-UK contracts will insist on workplans that show a clear link between activities and planned expenditure. The budgeting on which the current proposal is based involved extensive consultation with the project officer, who has recent experience of project work in Apuseni and thus experience of local costs. Moreover, staff, office and other costs were cross-checked with various Romanian colleagues. Special advice was sought about the need & prices for a 4W vehicle: all consulted stressed the need for a reliable vehicle due to remoteness & time constraints.

27. Reporting Requirements. All projects must submit six monthly reports (by 31 October each year) and annual reports (by 30 April each year). Please check the box for all reports that you will be submitting, dependent on the term of your project. You must ensure that you cover the full term of your project.

Report type	Period covered	Due date	REQUIRED?
Six month report	1 April 2004 – 30 September 2004	31 October 2004	Yes
Annual report	1 April 2004 – 31 March 2005	30 April 2005	Yes
Six month report	1 April 2005 – 30 September 2005	31 October 2005	Yes
Annual report	1 April 2005 – 31 March 2006	30 April 2006	Yes
Six month report	1 April 2006 – 30 September 2006	31 October 2006	Yes
Annual report	1 April 2006– 31 March 2007	30 April 2007	Yes
Six month report	1 April 2007 – 30 September 2007	31 October 2007	NO
Final report	1 April 2004 – 31 March 2007	3 months after project completion	Yes

LOGICAL FRAMEWORK

28. Please enter the details of your project onto the matrix using the note at Annex B of the Guidance Note. This should not have substantially changed from the Logical Framework submitted with your Stage 1 application. Please highlight any changes.

Project summary	Measurable indicators	Means of verification	Important assumptions
<p>Goal:</p> <p>To draw on expertise relevant to biodiversity from within the United Kingdom to work with local partners in countries rich in biodiversity but poor in resources to achieve</p> <ul style="list-style-type: none"> the conservation of biological diversity, the sustainable use of its components, and the fair and equitable sharing of the benefits arising out of the utilisation of genetic resources 			
<p>Purpose</p> <p>To develop a model for the sustainable production and trade of <i>Arnica montana</i> resulting in benefits for biodiversity and livelihoods; the principles of which can be used to inform the development of conservation approaches and methodologies for other endangered medicinal and aromatic plants and their habitats.</p>	<p>Association at GdS (RMTA) able to secure conservation & increased livelihood (e.g. income) by yr 3; appropriate agreement with company</p> <p>30% of farmers at GdS commit to long-term traditional habitat management by yr 3</p> <p>40% of harvesters at GdS adopt sustainable harvest practices by yr 3</p> <p>Model documented (incl. biodiversity & social aspects & sust. sourcing guidelines), disseminated & considered useful by yr 3</p>	<p>Records of RMTA & interviews with members; inspection company agreement & interview</p> <p>Implementation agreements between farmers & RMTA; monitoring of farmers' practices</p> <p>Agreements with RMTA; monitoring data & vegetation sampling</p> <p>Inspect documentation (incl. sust. sourcing guidel. & distribution records), recipient feedback</p>	<p>Effective structure agreed in community, able to make agreements, ensure fair distrib. of benefits & settle disputes</p> <p>Farmers see advantages of trad. management over other options</p> <p>Monitoring system for quotas exists & can be used by harvesters</p> <p>Available evidence allows principles of model to be identified</p>
<p>Outputs</p> <p>RMTA founded & effective at GdS (incl. harvesters, landowners, park staff)</p> <p><i>Arnica</i> management plan written, accepted & implemented</p> <p>Harvesters & farmers trained in sustainable harvest, habitat management & drying</p> <p>RMTA/company agreement based on sustainable sourcing guidelines</p> <p>Awareness raised on benefits of sustainable harvest of MAP among harvesters, farmers, government agencies & academics</p>	<p>Association exists by yr 2 & achieves objectives</p> <p>Plan written, incl. setting of annual quotas, by yr 3</p> <p>Training conducted & manual disseminated to 200 harvesters & 300 farmers by yr 2; drying facilities installed & tested by yr 3</p> <p>Sourcing guidelines exist (draft yr 2); agreement signed by yr 3; final guidelines by yr 3</p> <p>15 local meetings (incl. school & church events); min. 1 national workshop, 2 conferences, numerous media contributions</p>	<p>Registration of association; minutes of meetings; interviews</p> <p>Management plan exists, known & respected (e.g. compl. with quotas)</p> <p>Manual; training records; inspection of equipment</p> <p>Document; inspection of agreement, interviews</p> <p>Interviews in communities, posters, leaflets, newspaper cuttings; radio/TV cover, peer-reviewed paper submitted</p>	<p>Community able to create effective org to address internal concerns; have authority & bargain with external parties. Plan agreed by RMTA & park authority; understood by community</p> <p>Ability to evolve harvest, management & drying systems that are appropriate</p> <p>Draft guidelines acceptable; suitable company willing to participate</p> <p>Right media & messages identified for different audiences</p>

Activities	Activity Milestones (Summary of Project Implementation Timetable)
Research	Participatory research on trade chains (yr 1&2), ecological sustainability & link to traditional farm management (yr 1 & 2), socio-economic & cultural context (yr 1& 2)
Sensitisation, training & capacity building at field site	Sensitisation of 200 harvesters, 300 farmers/landowners, park staff, traders & companies by Mar 05; training of harvesters & farmers in sustainable harvest & management practices (completed by Sept. 06); capacity building of research officers (incl. 2 qualifications to Masters level by yr 2) & project staff (yr 1-3); 2 thematic training events per yr; 2 posters (Dec 04 & Dec 05)
Establishment of institutions & partnerships	Formation of local project advisory group (incl. project staff, key local community members, priest & park representative) by Aug. 04; design & development of RMTA by Dec. 05; company/RMTA partnership agreement(s) negotiated & tested by Jan. 07
Development of key documents	Producer manual (incl. drying & storing), draft & testing by Aug. 05; draft sust. sourcing guidelines for companies/ traders, draft by Nov. 05 ; <i>Arnica</i> management plan draft (Oct 05), finalised (Oct 06); case study Jan 07; 1 peer- reviewed paper submitted (Mar 07)
Meetings & workshops	1 project initiation wkshop (Apr. 04); 2 annual review & planning workshops (Mar 05 & 06); 5 local community wkshops/events per yr (incl. training & outreach, school, church & market events); 1 national workshop to discuss sustainable management & trade model for <i>Arnica</i> & other MAP; 1 final project review & wkshop with project team (Feb 07); 1 final review & wkshop with RMTA, community & park staff (Feb 07)
Equipment purchase & construction	1 4WD purchased (April 04); 1 demonstration t plant drying house & equipment installed (yr 2); tested & adapted drying house (Aug 06);
Awareness raising	2 conferences and at least 4 workshops attended (yr 1-3); press releases in host country (5) & UK (2); radio interviews/features in host country (2) & UK (2) and local TV programme/feature (1); 1 project leaflet produced