



COmmunity-based Management of
EnviromenTal challenges in Latin America



D7.2: “Minutes of the 2nd Steering Committee Meeting”

Prepared by:

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UNIVERSIDAD DE CÓRDOBA



Steering Committee Participants

INSTITUTION	NAME
UCO	María del Mar Delgado Serrano Cecilia Riccioli Pieter Vanwildemeersch
NILU	Alice Newton
JHI	Julia Martin-Ortega Kerry Waylen
SGM	John Icely
PUJ	María Adelaida Farah
UNAM	Saúl Basurto
IADO	Gerardo Perillo
AQM	Guillermo Fidalgo
CCC	Sebastian Moreno
ERA	Yolanda Lara
CEUICN	Cristina Sobaler Ana Correa

Agenda

I. Organizational issues

- 1) Submission of internal scientific report
- 2) Review of the scientific quality of the Deliverables: Deadlines, procedure and responsibilities
- 3) Organization of the next methodological meeting in Latin America and preparation of the travel agenda for the field trip
- 4) Development of the third ring of the Leaning Arena: Global Stakeholders
- 5) Final Policy Conference
- 6) Relationships with other Projects approved in the same topic as COMET-LA
- 7) Schedule of the next Skype meetings

II. Scientific issues

- 8) Working method for future scenarios analysis
- 9) Planning of the development and publication of scientific results
- 10) Research work (PhD and MSc theses) linked to COMET-LA

III. Dissemination issues

- 11) Dissemination plan for reaching local stakeholders
- 12) Dissemination of the information relative to the other COMET-LA case studies in each case study
- 13) Planning of the next activities of scientific dissemination
- 14) Dissemination of the Project at the national policy level (upscaling) in the different countries

Minutes

After 3 days work where the COMET-LA partners have presented and discussed the work evolution and the perspectives for the next year, the Steering Committee (SC) met to take the decisions to approve the intermediate results and to go ahead with the development of the project.

The Project Coordinator M^a del Mar Delgado (MMD) welcomed the participants and mentioned the partners that are represented by persons different from those in the SC; they all presented authorization letters.

All the partners presented the bank certificates for reception of the funds for the 2nd period and the new financial forms of those partners whose current account was changed between the first and second reception of funds.

All the participants approved the agenda of the meeting and agreed with the project evolution so far as presented by the different partners during the previous sessions of the meeting. The interest and relevance of the project, both at the research and at the community levels were highlighted.

MMD informed that the requested amendment to postpone the end of COMET-LA has not been approved by the EC. Thus, all the deliverables, products and events have to be done in the initially scheduled dates.

MMD emphasized the importance of copy the project coordinator in all the communication processes between partners. Partners agree.

I. Organizational issues

1) **Submission of internal scientific report**

The partners agreed on submitting an internal periodic report covering the period July 2013-July 2014 by 22th July 2014, in order to check the progress and advance in writing the final report, which is intended to be presented as soon as possible after the project deadline.

The document will be revised by UCO and comments sent to the partners by the 31st of July. Changes will be incorporated by the partners and sent back to UCO by the 31st of August.

2) **Review of the scientific quality of the Deliverables: Deadlines, procedure and responsibilities**

The review of the scientific quality of the deliverables, deadlines, procedure and responsibilities are organized as follows:

- The revision procedure will be a double peer-review. Reviewers were engaged for each deliverable (see Table 1);
- The final draft sent to review need to be written with a good level of English;
- Some of the pending deliverables could be written in a paper format;
- UCO made a Gantt chart with the agreed dates for reviewing all the deliverables (See Annex I);
- The structure of deliverables 2.3, 3.3 and 4.3 will be provided by JHI;
- The structure of deliverables 2.4, 3.4 and 4.4 will be decided by the respective WP leaders who can choose between paper and report format. A draft of the structure proposed by each partner will be circulated by the end of February.

Table 1. Responsible partners and reviewers for the double peer-review of next deliverables

Deliverable	Responsible	Reviewer 1	Reviewer 2
1.2	UCO	JHI	UNAM
1.3	JHI	IADO	UCO
2.3	PUJ	IADO	SGM
3.3	UNAM	UCO	PUJ
4.3	IADO	NILU	UNAM
1.4	UCO	PUJ	IADO
1.5	SGM	IADO	UNAM
1.6	PUJ	JHI	CeUICN
2.4	PUJ	IADO	SGM
3.4	UNAM	UCO	PUJ
4.4	IADO	NILU	UNAM
5.1	JHI	PUJ	CeUICN
5.2	JHI	SGM	NILU

3) **Organization of the next methodological meeting in Latin America and preparation of the travel agenda for the field trip**

MMD highlighted that this year the last Stakeholder Forum (SHF) will be organized and that it will be the last opportunity of the international team to meet the communities participating in the project. During that SHF, not only the results of phase 3 should be presented but also a general overview of the project, its main outcomes and the future actions and challenges, with a special emphasis on presenting the situation and results of the other CSs, as a contribution to the learning arena. She stressed the importance of sharing presentations, pamphlets, poster, etc. among case study members. The field trip to each CS will offer a good opportunity to show the results on the strengths and weaknesses of each governance system and extract lessons.

The partners agreed to start the fieldwork in Mexico on the 26th of June. The fieldwork in Mexico will be done between the 26th and the 29th of June. On the 29th of June, a meeting with the General Assembly of the community of Santiago de Comaltepec will be held to present them the results of the project.

The agenda for the Mexican field trip is organized as follows:

- 25th of June: Arrival at Oaxaca;
- 26th of June: Methodological meeting in Oaxaca -Scenario building;
- 27th of June: SHF with external stakeholders;
- 28th of June: SHF at the General Assembly;
- 30th of June: Flight to Colombia (Cali).

The agenda for the Colombian field trip is organized as follows:

- 1st of July: Arrival at Buenaventura;
- 2nd of July: SHF at La Delfina;
- 3rd of July: SHF at Buenaventura with local stakeholders and travel to Cali;
- 4th of July: SHF with external stakeholders at Cali;
- 5th of July: Flight to Argentina.

The agenda for the Argentinean field trip is organized as follows:

- 7th of July: Methodological meeting in Buenos Aires –Preparation of policy issues for the final Policy Conference
- 8th of July: SHF at Bahía Blanca and presentation of the results of the project in an open-door session at the university.
- 9th of July: Final meeting
- 10th of July: Return home

4) Development of the third ring of the Leaning Arena: Global Stakeholders

Ana Correa thanked to the local teams their involvement in the stakeholder identification prepared by CEUICN for each country and proposed to formalize the Stakeholder Board. The partners agreed to review the work done by CEUICN regarding the global stakeholders' data collection. After review, CEUICN will circulate the information among the partners.

CEUICN will prepare a letter of interest to invite external stakeholder to express their interest in the project and to engage those interested in the upscaling and outreach of the project. Those accepting to be part of this board will receive the different COMET-LA dissemination products: factsheets and newsletter, as well as other project results and invitations to participate in COMET-LA activities and events.

5) Final Policy Conference

As previously decided, the Final Policy Conference will be held at UNAM (México). All partners agreed to do it in on the 8th-9th of December 2014. UNAM will check on the availability of those dates. MMD informed that Roberto Escalante will visit Cordoba at 18 and 19th February and they will work on the preparation of the Conference after the decisions taken in this meeting.

The partners asked the Project Coordinator to contact the Project Officer to check his opinion and expectations on the organization and the possibility to have the institutional support of the DG Research in the organization and delivery of invitations.

MMD emphasized that the conference structure is not the one of a scientific conference. Partners agreed that it has to be very dynamic and attractive for policymakers. The messages have to be prepared for this type of audience. The partners agreed that a conventional meeting with only presentations is not the best manner to attract the attention of the targeted audience. It would be good to organize some side activities in order to have more chance of success.

An important part of the conference should be devoted to deliver the most important policy issues derived of COMET-LA experience. MMD will circulate by the end of March a list of topics that could be included; all partners will send feedback after 2-3 weeks. They have to be relevant issues at global and local level. Discussions on how to present these issues will be done in the next fieldwork in Argentina.

CEUICN proposed to host as a side event, a workshop for debating with the participants on a motion on *community-based natural resources management* to be presented at the next IUCN World Congress.

Relevant guest speakers on COMET-LA goals can be invited to open the conference. Leticia Merino and Eduardo Brondizio, both linked to the Ostrom Workshop in Indiana, were suggested. As Leticia works at UNAM she will be the first to be approached.

It is important to invite to the Conference:

- 1) The European Commission (DG Research, EC representative for Latin America and EuropeAid);
- 2) All the relevant policymakers in the region: national governments and their environmental and development agencies, national research agencies (CONICET, CONACYT, COLCIENCIAS), multilateral organisms (FAO, CEPAL, UNDP, IICA...),
- 3) Global environmental research donors (Future Earth, Belmont Forum, Bill and Melinda Gates Foundation...);
- 4) Networks and platforms linking EU and LA (EU-LAC, ENSOCIO,...);

- 5) The other project under the same call;
- 6) International NGOs including representatives of indigenous communities;
- 7) Others (to be proposed by each partner after checking options).

The partners also agreed on preparing additional material for the Conference:

- A video with COMET-LA results;
- JHI video on Payment for Ecosystem Services (PES). This video is in English. A Spanish version is being prepared, if ready by this date it will be also brought to the conference;
- Posters, booklets and other dissemination material.

6) Relationships with other Projects approved in the same topic as COMET-LA

MMD informed that COBRA, COMBIOSSERVE and CIVI.NET have sent information about their final conferences, inviting us to participate. This information has been delivered to the partners and the options to assist analyzed.

- COMBIOSSERVE is organizing the Final Policy Conference in Mexico which will take place in Campeche during November 2014;
- CIVINET and COBRA will join forces for their final conference in Costa Rica (8th-12th of September 2014) within the 7th International Ecosystem Service Partnership Conference.

MMD informed that she has contacted COMBIOSSERVE's Project Coordinator to do a joint conference, but they did not accept to do it at Mexico DF and the partners agreed that for us Campeche is not an option.

The partners agreed to send the other projects an invitation to participate in the Policy Conference as soon as it is ready.

7) Schedule of the next virtual meetings

The next virtual meetings for discussing progress and problems are agreed at:

- 10th of April 2014: 17:30 h (Spanish time).
- 9th of June 2014: 17:30 h (Spanish time).

II. Scientific issues

8) Working method for future scenarios analysis

A draft methodology has been presented by JHI, discussed and agreed on by all the partners. JHI will review the methodological guidelines according to the decisions taken during this meeting and will disseminate by the 21th of February the document "The common scenario-



planning methodology for COMET-LA". JHI offered all the participants the references to the used literature.

JHI will prepare a set of questions to the CS partners to prepare the methodological learning process. A set of questions will be sent for each of the methodological stages and partners are required to answer after finishing each step so they can write deliverable 1.3 progressively.

The last phase of the scenario building method proposed by JHI will be developed during the international team's field trip in June/July 2014.

It was stressed that it is important to work in continuous contact and feedback between JHI and the LA research teams.

9) **Planning of the development and publication of scientific results**

CEUICN and NILU reminded the participants to update the publication list planned for 2014, so they can communicate on them. CEUICN asked for copies of the published papers to disseminate the results to a broader public. CEUICN will send the form for communicating publications to everyone.

The partners agreed that it is preferred to publish COMET-LA outcomes in a special issue of the project rather than to do it in a joint special feature with the other 7th framework projects, as proposed by the CIVI.NET Coordinator. The partners agreed on submitting to Ecology and Society. MMD informed about the conditions to submit a special feature to this journal: a minimum of 8 papers plus an editorial. The fees for the publication are 975\$/paper. In order to start the negotiation with the journal, all partners will send the abstracts they would like to publish to UCO by 15th of March.

MMD proposed to invite the coordinators of COBRA, COMBIOSERVE, CIVI.NET and ECOADAPT to submit papers for their publication in the special feature number of COMET-LA. MMD also pointed out that it would be very interesting to try to publish some scientific papers together.

In case E&S editors were not interested in this feature, other journals like Global Environmental Change, Society and Natural Resources, etc. will be explored.

Regarding other publications, the following Journals were mentioned:

- Redesma Virtual Journal:

Following the invitation of Jose Blanes, one of the members of COMET-LA's Advisory Board and Editor of Redesma (a quarterly scientific journal published in a virtual format that is distributed to more than 150,000 subscribers in the Americas and Europe, among them persons from the private and public sectors, NGOs, international cooperation organizations, academic institutions, and grass-root organizations) COMET-LA is producing a special issue on Climate Change and Social-Ecological Systems. This issue is considered as a great

opportunity to disseminate COMET-LA to a broader audience. The deadline for sending the articles is the 28th of February 2014. All the partners stated that their papers will be ready on the date. Papers will be put in a uniform layout by UCO.

The special feature also includes papers written by representatives of COBRA, COMBIOSERVE, EcoAdapt and Civi.Net. See Annex II for the index of contents.

– AGER Journal of Depopulation and Rural Development Studies:

MMD informed that the Journal AGER had launched a call for a special feature on "Community resilience, social capital and territorial governance". Partners were invited to send their abstract by the 7th of March.

UCO and UNAM teams agreed to send a joint abstract to the Journal.

– Scientific Journal 'Cuadernos de Desarrollo Rural' (International Journal of Rural Development)

Maria Adelaida Farah (MAF) presented this journal edited by PUJ. The International Journal of Rural Development was founded in 1978 and is one of the most acknowledged in LA on this issue. It currently is an ISI journal. It can be a good opportunity to disseminate our results in the region. MAF informed that we could prepare a special issue, but partners did not agree. However they agreed on sending some papers for the second volume of 2015. The deadline to send is the 1st of August 2014.

10) Research work (PhD and MSc theses) linked to COMET-LA

Alice Newton (AN) reviewed the situation of the researchers carrying out PhD or MSc theses in the framework of COMET-LA project. Most of them plan to finish his/her studies in late 2014 or early 2015 or have already finalized the research period:

- Pablo Andrés Ramos (PUJ, Colombia). PhD thesis "Social-Environmental Conflict and Institutional Change: Understanding Institutional Nesting via Social Networks analysis in Social-Ecological Systems in Afro-Colombian Common Property Lands". Work in progress;
- Pepa Ambrosio Albalá (UCO, Spain). PhD thesis "Identifying factors influencing individual and collective perception of climate change and their potential as drivers of change". Work in progress;
- Sirak Robele Gari (ERASMUS MUNDUS, Ethiopia). PhD thesis "Testing the application of Ostrom's framework in Catchment-Coast Social-Ecological Systems in Colombia". Work in progress;
- Vera Semeoshenkova (ERASMUS MUNDUS, Russia). PhD thesis "Integrated Framework for beach management". Work in progress;
- Leonardo Bernissone (AQM, Argentina). MSc Scholarship in Water and Coastal Management. Work in progress;

- Saul Basurto (UNAM, Mexico). MSc thesis "Economic valuation of forest environmental services. A case study";
- Natalia Ocampo (PUJ, Colombia). Bachelor thesis "Gobernanza de Sistemas Socioecológicos: el desafío inmanente a los consejos comunitarios del pacífico colombiano. Estudio de caso: Consejo Comunitario del Alto y Medio Dagua (Buenaventura, Colombia). Evolución histórica y adaptación de reglas y normas desde 1970 hasta el presente" Finished.

MMD informed that Anais Perroy, a MSc student at UCO, will join COMET-LA and do her dissertation applying Ostrom's principles to an irrigation system in Spain. Saul Basurto informed that a Bolivian PhD student at UNAM will also join the project and will apply COMET-LA adaptations of Ostrom's framework to a Bolivian case study.

III. Dissemination issues

COMET-LA has been disseminated in: 1) The International Innovation Magazine and 2) the newsletter of the FAO Regional Office for Latin America and Caribbean. All the partners have received both reports.

COMET-LA's website has been submitted to a remodeling. A draft of the new version was presented to the partners. It was not yet ready for comments but it will be in the next weeks.

For the management of the website: it has been decided that each CS will have a person responsible of the news and highlights on the website:

- Argentina: Lujan Bustos;
- Colombia: M^a Adelaida Farah;
- Mexico: Mariana Soto.

11) Dissemination plan for reaching local stakeholders

NILU is studying the most appropriate forms of dissemination material to be used for wide transmission of the information produced within the project. Alice Newton (AN) suggested redacting Deliverables 2.4, 3.4 and 4.4 in both Spanish and English since they represent a valuable resource for local communities.

AN proposed to ask the Project Officer if the dissemination material included in Deliverable 6.3 (Set of locally-adapted dissemination tools for the management of natural resources) can be delivered in Spanish, provided that is the language of the local communities. MMD will do.

The partners agreed to print the posters made by Raquel Fagoaga (MSc student in Forest and Nature Conservation at the Wageningen University doing a stage at UCO). These posters represent a chronology of the Colombian and Mexican case studies showing the most important events for the communities and a conceptual map of the governance system for the Mexican case study.



Leonardo Bernissone (LB) from AQM presented a proposal for an interactive comic about the environmental challenges in each CS to be disseminated among the children. Partners enthusiastically supported the idea. AQM is currently drawing the comic in Argentina. They will need support to write the plots in the other CSs.

Guillermo Fidalgo (AQM) also presented other options to work with children in environmental education issues, especially for disabled or sick children in hospitals.

Cristina Sobaler, CeUICN, proposed to organize a photography competition among case studies communities. The awarded photographs would be exposed during the Final Policy Conference. It was agreed that participants would present a three-photograph set, one for each of the following situations: SES conditions, problems in SES and good practices for a more sustainable future.

12) Dissemination of the information relative to the other COMET-LA case studies in each case study

MMD insisted on the fact that is very important to deliver the results of each CS to the others. Even if in the different field trips the results of the other CSs have been presented, the national teams have been working using common methodologies, but rather individually. Now, it is the time for cross-checking, comparisons, sharing results and good practices and mutual learning.

Materials of each CS produced so far (i.e. years 1 and 2 of the project) should be ready for distribution in the next fieldwork.

Regarding the scenario work (to be developed during year 3) Julia Martín-Ortega (JMO) said that deliverable 5.1 (due in month 34) will give a summary of the 3 CSs together, comparing the experiences. Kerry Waylen (KW) proposed to send the scenario notes coming from the 3CS summarized or complete to all partners for improving the level of sharing information. The Argentinean team proposed to use one day of the meeting in Argentina in July 2014 to look for comparisons across the case studies. Partners found this a good idea and JHI said it would be useful to help with deliverable 5.1.

MMD highlighted that the last months effort should concentrate on doing comparative analysis on the 3 CSs, and on delivering and publishing results. All the deliverables are available for everybody and crosschecking for analyzing options is very advisable. As mentioned, all these issues will be discussed in Argentina in July and the options for writing joint papers explored.

13) Planning of the next activities of scientific dissemination

The Project Officer has invited the Project Coordinator to participate in a European Conference he is organizing in Brussels, on May the 13th-14th, on "Renaturing Cities: Addressing Environmental Challenges and the Effects of Economic Crisis Through Nature-Based Solutions". She will try to attend.

UCO will present the results of COMET-LA during the following conferences:

- Delgado M.M., Escalante, R., Ramos, P. y Chapela F. “Community-Based Management: Trade-offs between sustainability and development”. Third International Science and Policy Conference on the Resilience of Social & Ecological Systems. Montpellier (France). May 2014. It will a special session organized by the 5 projects and the Project Officer also participates.
- Albalá, M.J. y Delgado M.M. 2014. “Studying climate change perception. How to use science to raise awareness of climate change”. Norwich Conference on Earth System Governance. Norway (UK). July 2014.

Kerry Waylen (KW) informed that she will be giving scenario-related talks in the following two events:

- Resilience Alliance Symposium, Montpellier, Mayo 2014 Presentación, where she will discuss the potential usefulness of scenario Planning on CBNRM.
- Royal Geographical Society, where she will talk about the usefulness of scenario planning for knowledge co-construction.

We are also invited to the other projects’ Final Policy Conferences. UNAM and ERA will try to attend COMBIOSEERVE’s. JHI that initially considered attending COBRA’s and CIVI.NET’s, finally will not assist. MMD was not sure about attending. The dates are very inconvenient.

14) Dissemination of the Project at the national policy level (upscaling) in the different countries

MMD, as COMET-LA coordinator, has received an invitation to join the process of initiating new networks and defining the priorities for future bi-regional cooperation in the framework of the ENSOCIO platform. ENSOCIO-LA is a Coordination & Support Action (the 7th Framework Programme, ENV.2013.6.5-4 Knowledge platforms, networking and uptake of research results for more strategic international R&I cooperation). It aims at establishing sustainable and integrated research and innovation cooperation between the European Union and Latin American countries in three areas of the environmental field, namely in climate change, resource efficiency and raw materials.

The partners agreed that the ENSOCIO platform can be useful for disseminating information and results of the project.

MMD stressed the need to contact national ministries, environmental authorities and research agencies in each of the countries for presenting the project and its outcomes, and to analyze collaboration options and possibilities to influence the policy agendas.

To close the session MMD thanked all the partners for their participation and commitment with the project and all the partners agreed on the evolution and outcomes of the project.



Annex I. Gantt



Annex II. Redesma Special Feature Index



Editorial.- *Cambio Climático y SESs*

Autores: María del Mar Delgado Serrano (mmdelgado@uco.es) y José Blanes (jose.blanes@cebem.org.bo).

Artículo 1.- *Luces y sombras de la gestión comunitaria de los desafíos ambientales en América Latina: la experiencia del proyecto COMET-LA (Community-based Management of Environmental challenges in Latin America)*

Autor: María del Mar Delgado, Universidad de Córdoba (mmdelgado@uco.es).

Artículo 2.- *Exploración de los factores determinantes del cambio en la gobernanza de los sistemas socio-ecológicos del pacífico colombiano*

Autor: Cesar Ortiz, Pontificia Universidad Javeriana (c.ortiz@javeriana.edu.co).

Artículo 3.- *Resiliencia de un Sistema Socio-Ecológico*

Autor: Roberto Escalante y Saúl Basurto, UNAM (semerena@unam.mx).

Artículo 4.- *Evolución de los ambientes costeros de la Provincia de Buenos Aires (Argentina): ¿Cambio climático o efectos antrópicos?*

Autores: Gerardo M. E. Perillo, M. Cintia Piccolo, M. Luján Bustos, M. Andrea Huamantincó Cisneros, Silvia London, Facundo Scordo y Mara Rojas. (gmeperillo@criba.edu.ar).

Artículo 5.- *Parque Estadual da Ilha do Cardoso e a comunidade do Marujá analisados em relação aos seus serviços ecossistêmicos e análise da gestão do sistema socioecológico*

Autores: Ademar Romeiro, Paulo Sinisgalli, Camila Jericó-Daminello, Karla Sessin-Dilascio, Lucas Lima, Barbara Schröter, Ranulfo Paiva Sobrinho (Barbara.Schroeter@zalf.de).

Artículo 6.- *Transferibilidad de Modelos de Conservación Comunitaria: Una Alternativa para las zonas de Manglares de Costa Rica y Mesoamérica*

Autores: Bernardo Aguilar González, Karla Córdoba Brenes, Lorena Erbure Cardozo, Adriana Fernández Sánchez, Alexander González Vega, Ebenezer, Houndjinou, Bettina Matzdorf, CiVi.net FP7 project (Barbara.Schroeter@zalf.de).

Artículo 7.- *Las políticas de cambio climático y las prácticas locales sostenibles: una evaluación de sinergias y conflictos en el Escudo Guayanés, América del Sur*

Autor: Céline Tschirhart, Andrea Berardi, Jayalaxshmi Mistry, Elisa Bignante, Caspar Verwer, Rob Glastra, Géraud de Ville, Odacy Davis, Cloude de Souza, Lakeram Haynes, Ryan Benjamin, Grace Albert, Rebecca Xavier, Deirdre Jafferally, John Abraham (J.Mistry@rhul.ac.uk).

Artículo 8.- *Sistemas socioecológicos: Un enfoque integral para comprender la interacción entre el ser humano y los ecosistemas. Experiencia en tres territorios de América Latina*

Autor: Susana Viteri, Iniciativa Estratégica Gobernanza del Agua (susana.viteri@ffla.net)



Artículo 9.- *Cambio climático y pueblos indígenas: un estudio de caso entre los Tsimane', Amazonía Boliviana*

Autores: Álvaro Fernández-Llamazares, Isabel Díaz-Reviriego, Elena Méndez-López, Isabel Virgina Sánchez, Aili Pyhälä y Victoria Reyes-García (Victoria.Reyes@uab.cat).

Artículo 10.- *La cambios de cobertura forestal con fotografías aéreas digitales en la Reserva de la Biosfera Mariposa Monarca*

Autor: José López García y Rafael M. Navarro Cerrillo (lr1nacer@uco.es).

Artículo 11.- *El uso de escenarios en la gestión comunitaria de los recursos naturales*

Autores: Juan Pablo Martin-del-Molino, Julia Martín Ortega, Kerry Waylen, Kirsty Blackstock and Iain Brown (JuanPablo.Martin@hutton.ac.uk).