

What did the project involve?

Where has it been working?

sustainable.

capercaillie?

Iberdrola España.

towards the recovery of this species native to the Cantabrian Mountains.

Cantabrian Mountain in the regions of Cantabria, Asturias and Castilla y León.

What is the Natura 2000 Network?

LIFE+ Cantabrian capercaillie has started up a series of urgent actions for habitat conservation, captive breeding, stren-

gthening the wild population, social involvement and outreach activities to stop the decline in population and work

It has been in operation for six years in 16 Special Protection Areas (SPAs) in the Natura 2000 network throughout the

The Natura 2000 Network is a European ecology network of areas for conserving biodiversity, aimed at ensuring the long-

term survival of Europe's most pressured and threatened species and habitats. This model promotes the conservation

of nature being paired up with benefits for locals and socio-economic development. The Natura 2000 Network is made

up of Special Protection Areas (SPAs) and Sites of Community Importance (SCIs), which develop into Special Areas of

Conservation (SACs) when the management plans have been approved. These protection areas are intended to ensure the lives of the natural treasures to which theses spaces are home and guarantee that the activities carried out there are

Which organisations have taken part in LIFE+ Cantabrian

The project was coordinated by the Fundación Biodiversidad of the Spanish Ministry of Agriculture and Fishing, Food

and Environment and is 50% co-financed by the European Union, through the LIFE+ funds. Other partners are the

regions of Cantabria, Asturias and Castilla y León, the latter through the Fundación Patrimonio Natural de Castilla

y León; Consorcio Interautonómico para la Gestión Coordinada del Parque Nacional de los Picos de Europa; SEO/

Birdlife, Tragsa and Tragsatec, with co-financing from the Organismo Autónomo Parques Nacionales and Fundación











Urgent action programme for the conservation of the

Cantabrian capercaillie and its habitat.

Project Outreach Summary. LIFE+09 NAT/ES/513



The Cantabrian capercaillie, at risk of extinction

The Cantabiran capercaillie (Tetrao urogallus cantabricus) is in a critical situation. This forest bird, only found in the Cantabrian Mountains, has disappeared from 70% of the places it inhabited only three decades ago. Because of this dire situation, the Cantabiran capercaillie has been listed as an "endangered species" in the National Catalogue of Endangered Species.

THREATS

The population decline is a result of inter-related aspects, such as:

- Loss of habitat.
- Population fragmentation.
- Predators.
- Other herbivores competing for food.
- Risks caused by human activity: Collisions with unmarked electricity wires and fencing.
- Pressure from hunters until hunting it was banned in 1979.

WHAT DOES IT EAT

eats the stalks, leaves, sprou

Bilberries are a key food. It

- Climate change.
- Others.

DID YOU KNOW?

The Cantabrian capercaillie is on of 12 subspecies of the western capercaillie (Tetrao urogallus)

On the Iberian peninsula we also have the *Tetrao urogallus aquitanicus*, which is also endangered.

LIFE+ Cantabrian capercaillie project

Title	 Urgent action programme for the conservation of the Cantabrian capercaillie and its habitat. LIFE+09 NAT/ES/513.
Aim	To halt the decline of this subspecies endemic to the Iberian Peninsula and promote recovery.
Length	• 6 years (2010-2016).
Budget	• €5.9m, 50% co-financed by the European Union.
Action Avens	

 Fundación Biodiversidad from the Spanish Mini Agriculture and Fishing, Food and Environ

Partners

- Government of Cantabria. Directorate- General for Natural Environmen
- Government of Asturias. Directorate-General for Natural Resources.
- Fundación Patrimonio Natural de Castilla y León from the Government of Castilla y León.
- Consorcio Interautonómico para la gestión coordinada del Parque Nacional de los Picos de Europa.
- Sociedad Española de Ornitología (SEO/BirdLife).
- Tragsa and Tragsatec.
- Co-financing
- Organismo Autónomo Parques Nacionales.
- Fundación Iberdrola España.

www.lifeurogallo.es

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A RELIC FROM THE LAST ICE AGE

Red brows as a

distinctive marking





It is an umbrella species. Its conservation is beneficial to other species.



HOW MANY EGGS DO THEY LAY? How do they

What is the legal framework?

The actions implemented have followed the guidelines in the Strategy for the Conservation of the Cantabrian capercaillie in Spain, as approved in 2004 and those of the Cantabrian capercaillie Work Group and the Wild Flora and Fauna Committee of the Spanish Ministry of Agriculture and Fishing, Food and Environment. The activity has also been based around the conservation and recovery plans of the regional governments involved in the project.



Participating experts and scientists have drawn up technical documents which make up the reference framework for conservation action regarding the habitat, controlling predators and competition, breeding in captivity, strengthening the population, land custody and genetic

Furthermore, the project also has a Scientific and Breeding Committee to help implement this, with participation from partners and representatives from other scientific and academic institutions.

When it was being implemented, we took into consideration experiences of what had been carried out to encourage the Capercaillie's habitat and improve breeding in captivity in other regions and countries.

Before finishing the project, technical diagnostic reports have been drawn up on the activities implemented for habitat management, predator control and the effects of removing eggs from the wild population.











Results Aims Obtaining forest areas with great varied in the woodland and thickets, with open, clear and grassland areas. Presence of hatched eggs and specimens in the treated areas of the Alto Sil SPA. We have not registered any problems for the species. On the contrary, the capercaillies have remained in the areas where there were Manual and selective forestry treatment to encourage the Capercaillie's habitat, already specimen and have inhabited neighbouring regarding food, shelter and serenity Of the 25 stands assessed, 18 have met the goals set for improving forest structures. Six of the stands could for the capercailli not be assessed for effectiveness due to the short amount of time elapsed. 26 pine marten have been captured and relocated in Control of the predators in the Cantabria and eight more around the Picos de Europa specimen release areas release area in Castilla y León Europa National Park, Castilla y León and A Reducing natural threats opulation density of deer throu Control of the excessive deer population and causes of dea to avoid negative effects on the bilberry the habitat has allowed us to iden and holly shrubs, a source of food and shelter for the Capercaillie d density of the bilber in the Picos de Europa SPA nstalling acoustic screen around the outer perimeter of the Puerto Reducing threats ar de Panderruedas substation causes of death brough about by human action Marking the electric lines running thr the Picos de Europa National Park Marking or removing fencing that can kill the capercaillie due to collision Awareness raisir about the species an Breeding cantabrian capercaillie specimens the action of the LIFI to include them in the captive genetic Cantabrian capercaill stock, to release them naturally and its conservation The breeding centre has 22 specimens in the town of Increasing the brood stock another specimen in the wild animal recovery centre in

cies, reproduction, behaviour, feeding and health-rela-

Investigating aspects related to the

conservation of the species and

the difficult study of wild birds

Results

Promoting involveme in society a various sectors

Developing a land stewardship programme in which voluntary agreements have been entered into with land owners, non-profit organisations and other public and private agents to promote the conservation of the Cantabrian capercaillie.

Managing the habitat and promoting the initiatives connected to the traditional use of the land to stimulate the habitat of the Cantabrian capercaillie.

Building a release park for specimen

y León, where the capercaillie will get

acclimatised before being released.

Reintroducing specimens from

Outreach, education and

communication campaign

the breeding centre.

Tagging 13 specimen with transmitters in the Alto Sil and Fuentes del Narcea, Degaña e Ibias SPAs

Partial collection of two eggs from the brood in the Alto Sil SPA from a tagged female as part of the capture programme. sis have provided relevant data regarding ecology and the distribution of the species. The tagged specimens in Asturias moved to the Alto Sil SPA.

The monitoring of the specimen and information analy-

Signing 28 agreements between organisations, neigh-

bourhood associations and local agents has enabled the

development of 19 projects in which the forest rangers,

livestock farmers, hunters, young entrepreneurs and lo-

We have acted on 148 hectares of the Cantabrian

Within the scope of the actions to promote traditional

activity, we have acted on 342 hectares and we have

created instruments for forest and pastoral planning

in the area that the capercaillie inhabited in the past

to make the use of the land more compatible with the

The specimen have been released in the Picos de

Direct release of two females in a lek in the province

The date obtained have provided information regarding

how the specimen adapt to the wide, their movements

and the use of some habitats over others.

species.

of León.

Europa SPA in Castilla y León.

cal residents have gotten involved, among others.

Hatching of chicks in the breeding centres from the co-

Participation of 2000 school children in workshops held

Participation of 72 volunteers in the three environmental volunteering campaigns.

Publishing awareness raising materials for local residents, school children and the business sector.

Holding information sessions aimed at the livestock, hunting and tourism sectors.

The travelling exhibition has had 120,000 in the 50 towns and villages that it covered.

Holding a press meeting in the Picos de Europa SPA and the Picos de Europa SPA in Castilla y León.

Holding four informative meetings open to the public. Creating and updating the www.lifeurogallo.es website

and promoting in on the Fundación Biodiversidad social Publishing over 100 news articles on the website and

spreading them in the media.

Putting up 19 information panels in the Cantabrian Mountains regarding the species and the project. Publishing four newsletters and creating a documen-

Meetings and technical visits with specialists in capercaillie conservation in Scotland, Poland, France and the Pyrenees which have provided in-depth knowledge on the species and how it is managed in other regions.

Experience exchange with experts

Meetings of the Scientific and Breeding Committee.

What about after LIFE+?

The LIFE+ Cantabrian capercaillie project is neither the beginning nor the end of the conservation of the species. The initiative has been a big step towards getting public and private organisations, civil society and the business sector involved in the same project. However, the conservation of endangered and emblematic species in Spain, such as the Cantabrian capercaillie, is and will continue to be one of the main focuses for action from the public authorities, through national strategies and regional conservation and recovery plans. The Fundación Biodiversidad from the Spanish Ministry of Agriculture and Fishing, Food and Environment, the regional and local authorities and land stewardship organisations, scientific organisations and companies, which have all contributed to the project, will continue to support the recovery of this emblematic species that is disappearing from Spanish forests.





IMPROVING THEIR HABITAT

The capercaillie is a sign of well-preserved woodland. The most emblematic thing about the cantabrian capercaillie is that is prefers quiet, mature and extensive woodland, with a very variety of species both in trees and shrubbery.

However, in recent decades the woodland in the Cantabrian Mountains has undergone changes which have had a negative effect on the quality of the capercaillie's habitat. The abandoning of rural areas has changed the woodland structure and the strata of shrubbery into forested areas that are denser and bushier.

The LIFE+ cantabrian capercaillie project has developed a range of activities to promote a favourable habitat for the species. Overall, we have carried out selective forestry treatments to favour the development of key species for the capercaillie such as the bilberry and a achieve forest areas with a better variety of structures in which there are open spaces, clear, spaces, pastures, woodland and shrubbery.

With these actions, we have tried to increase the area of usable habitat for the species, regarding food, shelter and quiet, which is better for the survival of the specimens when faced with predators and could contribute towards greater procreation among the species.





SOCIAL IMPLICATION

Land Stewardship is a tool that has built net-works between land owners, non-profit organisa-tions and the local residents to improve the can-tabrian capercaillie's habitat and work towards

its recovery.

The Land Stewardship programme in the LIFE+
cantabrian capercallile project has managed to
bring together Neighbourhood Associations,
forest wardens, beekeepers, livestock farmers,
hunters, young entrepreneurs, NGOs and rural
people. All of their efforts have helped create 19
projects that have contributed towards improving the environment, creating jobs and boosting
social involvement and traditional activities in
the Cantabrian Mountains.

The various actions in the programme have been focussed on recovering and improving the habitat and promoting activities linked to traditional land use, for example beekeeping and livestock farming. As part of this, we have acted on around 3-0 hectares of the mountains in the Cantabrian Mountains, where we have helped towards there being more food and shelter for the capercaillie.

The collaboration network been set up along with the Land Stewardship programme will continue beyond the LIFE+cantabrian capercaillie project.

More than 100 people have participated in the project and 20 people have found direct employment

REDUCING THREATS

One of the main threats to the cantabrian capercaillie comes from the growing deer population, which is particularly prominent in the Eastern part of the mountain ranges. The effect they have on the quality of the bilberry and holly shrubs means there is less food available and changed the structure of supportive habitat that would protect it from predators.

As part of the project, we have been monitoring the deer population and it is under control in Cantabria, Picos de Europa National Park, Castilla y León and Asturias. Alongside this, we have evidence of its effect on the bilberry through fenced-off control areas in Picos de Europa.

Furthermore, we have controlled the predators. Among other things, we have captured and relocated pine marten in Cantabria and around the release park in Picos de Europa and Castilla y León.

Fencing used in livestock farming can be a cause of death for the capercaillie as they run into it on days with poor

Nansa y Saja in Cantabria, Alto Sil, Omaña, Picos de Europa in Castilla y León, Picos de Europa and Ponga in Asturias. Furthermore, the electrical infrastructure can be a nuisance and even a cause of death for the capercaillie and other



LIFE+ CANTABRIAN CAPERCAILLIE

The cantabrian capercaillie is one of the most endangered species on the Iberian Peninsula. The distribution area is divided between two population centre: East and West.

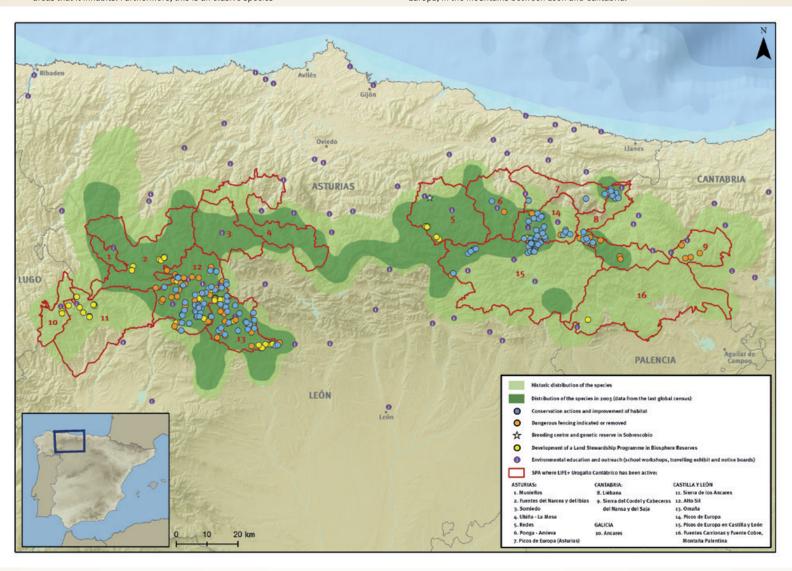
The cantabrian capercaillie inhabited a much greater area in the past than it does now. In the 18th and possibly up to the 19th century, the species covered most of the Cantabrian Mountains, between Lugo, Asturias, León, Palencia and Cantabria, and there were also isolated populations in the Demanda, Neila and Cebollera Mountains in the provinces of Burgos, Soria and La Rioja, in the Obarenes Mountains in Burgos, the Montes Aquilanos in the Teleno Mountains in León and in the Cabrera Mountains between León and Zamora.

From the first surveys conducted in the 1980s until now, their numbers are falling in all areas that it inhabits. Furthermore, this is an elusive species

that lives in mountainous areas that are difficult to survey, which means it is difficult and requires a lot of effort to collect information on their populations.

As of today, the cantabrian capercaillie are only found in the mountainous areas of the Cantabrian Mountains, almost exclusively in Asturias and León. They have a very small centre and are heading towards extinction in Cantabria, they have already been deemed extinct in Lugo and Palencia.

The LIFE+ cantabrian capercaillie project has worked on over 16 Special Protection Areas (SPAs) in the Natura 2000 Network in the distribution area in the Cantabrian Mountains. We have also chosen to work in different scenarios: some already inhabited, with good capercaillie populations, such as Alto Sil in the province of León and some from which the capercaillie has recently disappeared, such as the Picos de Europa, in the mountains between León and Cantabria.



ENVIRONMENTAL EDUCATION AND OUTREACH

noting respect, knowledge and the protection of the cantabrian capercaillie among future generations is one of the pillars of the educational and awareness campaign of the LIFE+ cantabrian capercaillie project.

Over 2,000 school children have taken part in the workshops held as part of the LIFE+ cantabrian capercail lie project to raise awareness about this endangered subspecies and contribute towards its conservation. This educational campaign is met with a wide range of awareness-raising to get society involved in protecting the

Among these actions, there has been a volunteering campaign in which 72 volunteers were involved. We have also published material, including information panels located in each of the SPAs, informative manuals, videos, a story and an instructional unit, among other things. Furthermore, the travelling exhibition has had over 120,000 visits in the 50 towns and villages it has travelled through. We have also given informational talks for hunters, livestock farmers and the tourist industry and local residents in towns and villages throughout the Cantabrian

The project has also given a certain importance to communication and outreach action. The webpage, www. lifeurogallo.es, has information about the project, outreach material and technical documents for reference.





























BREEDING IN CAPTIVITY

The dire situation in which the cantabrian capercaillie finds itself makes it difficult to recover it just from the naturally occurring population centres. Spain, much like other countries such as Poland, has opted for breeding in captivity as an additional measure to boost the wild population and contribute towards the recovery of this endangered subspecies.

eding in captivity is part of the national strategy to conserve the subspecies; a key part of this is improving the cantabri-capercaillie's habitat. This also includes the commitment to set up a programme for breeding in captivity, the creation of a genetic reserve and a protocol for reintroducing or strengthening populations





This pioneer programme is in its first stages. The breeding and genetic reserve centre for the cantab scobio. Asturias has been working since 2009 to achieve specimen that can adapt to life in the wild and that will be able to reproduce.

Since it was set up, its facilities have held around thirty specimen, most of them born in captivity. Over these early years, Since it was set up, its statutes insert lead around unity specimen, most or item both microbin the above. Over these early we data of interest has been collated regarding the species, reproduction, behaviour, feeding and health-related aspir Furthermore, the first experiences of releasing specimen has proven to us that the bird released from the breeding ce have been able to adapt and self-sufficiently feed in the wild.

STRENGTHENING THE LOCAL **POPULATION**

The LIFE+ cantabrian capercaillie en the capercaillie project with specimen that have been raised in captivity, based on the guidelines in the Strategy for the Conservation of the cantabrian capercaille in Spain. The first experience of releasing a specimen took place in the Picos de Europa SPA in Castilla y León, where the specimen was placed in a park for releasing specimen, aimed at for releasing specimen, aimed at acclimatising those that had been

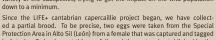
the hacking, the capercaillies develop their sense of direction in the area and learn to feed and shelter from possible predators.

Three females from the Sobrescobio breeding centre were in the park before being released. Once it was confirmed that they had gotten acclimatised, the doors were opened and they were released calmly and on their own initiative. The specimen adapted to the environment and were able to feed themselves self-sufficiently for a minimum period of two nonths from being freed and covered large distances.

Apart from this experience, we have also directly released two females into the lek in the Alto Sil SPA, as a way of increasing the possibility of mating in the oestrus season. The process of capturing, relocating and releasing was a success. Once released, the specimen took flight and tried to adapt to the environment.

Despite the fact that four of the five females eventually died and the other one lost signal, the data obtained has provided information about the adaptation of the specimen to their new environment, their movement and their use of one habitat compared to others. With this activity, the project has been able to gain experience that will be key for future releases of capercaillie specimen in their natural environment.

The programme for capturing, tagging and collecting eggs as part of the The programme for capturing, tagging and collecting eggs as part of the LIFE+ cantabrian capercalille project allows us to monitor the specimen that have been captured and tagged with transmitters to locate them and, where possible, collect eggs to bring them back to the breeding and genetic reserve centre in Sobrescobio. This is the best option for getting the greatest genetic variety of the subspecies, trying to get the impact on the wild population down to a minimum.



in Asturias. To implement this, we followed the protocol established by the cantabrian capercaillie in Spain Work Group, which was approved by the National Committee for the Protection of Nature on 18 October 2005.

As result of this collection, two chicks were hatched, both healthy. These specimen will allow us to increase the genetic





















