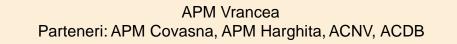


"Best practices and demonstrative actions for conservation of Ursus arctos specie in Eastern Carpathians Romania -LIFEURSUS "

LIFE08 NAT/RO/000500



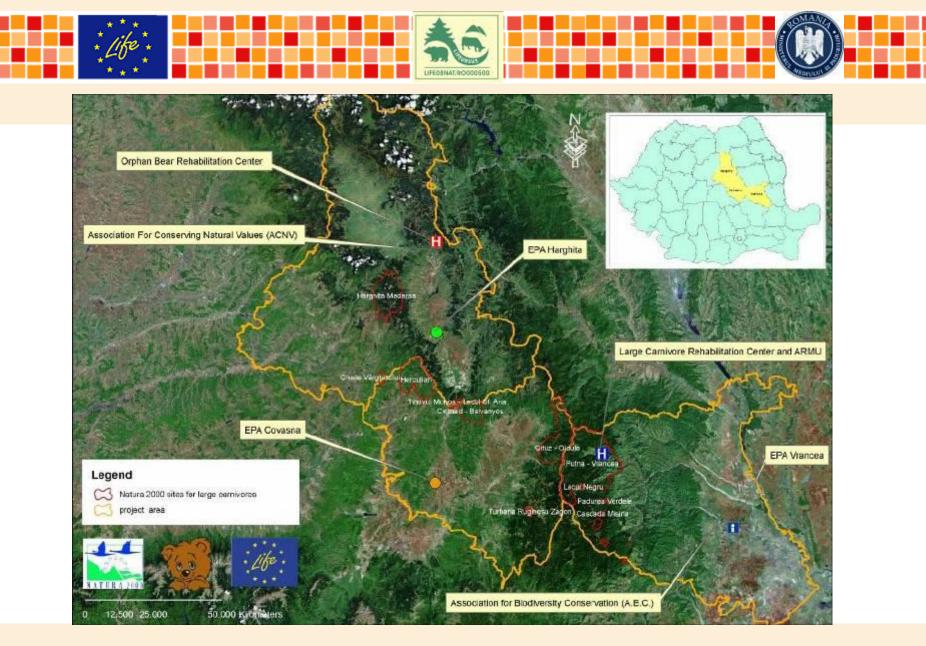


PROJECT LOCATION: Vrancea, Covasna and Harghita County BUDGET INFO: Total amount: 515.066 € % EC Co-funding: 75% - 386.300 € DURATION: Start: 15/01/10 - End: 20/12/13

PROJECT'S IMPLEMENTORS:

Coordinating Beneficiary: LEPA Vrancea

Associated Beneficiary(ies): LEPA Covasna, LEPA Harghita, ACNV, ABC





Background and aims

- Brown bear (Ursus arctos) is the target specie of the project. The main threat identified on the project area is the intensification of the conflicts with local people due to the damages caused by bears on livestock and crops. Other threats are related to:
- the degradation of the brown bear habitat,
- the lack of optimal methodology for brown bear population monitoring and number estimation,
- the negative image of the brown bear among local people and
- the lack of understanding of the Natura 2000 network goals and importance.



Project objectives

Main objectives of the project:

- Maintaining the actual conservation status of the brown bear population using some of the best practices and demonstrative actions and promoting these practices and actions at national and European level,
- To prevent the decline of the brown bear population due to poaching, habituation and juvenile mortality,
- To reduce and prevent the conflicts between bears and local people,
- Maintaining the actual conservation status of the target specie in the 15
 Natura 2000 sites overlapped on the project area.

ACTION A.1: Creating the project's implementing team and the Steering Committee

- Objective: Establishing each partner responsibilities, communicate the main terms according to contracts and creating the main bodies of the project
- There were established the responsibilities for each member of project coordination equip and was signed the detailed agreements with each partners. The agreements with partners were signed according with CP and Romanian legislation.
- After delivering the mid-term report, in November there will be organised the Annual Meeting of Partners, following to be analysed the plans for continuation of implementing the activities.







ACTION A.2: Creating an integrated GIS database to support and demonstrate conservation actions of the project

Objective: Support for long-term monitoring strategies for the conservation and management of the bear's population for 15 Natura 2000 sites is assured.

Expected results: An up to date consistent online database in compliance with EU INSPIRE Directive, serving as good example of cooperation for the common conservation action on brown bear within three counties.

Progress:

In accordance with the proposed planning, beginning with 12/07/2011, the database and the web-GIS geo-portal were installed on the server purchased and installed at the EPA Vrancea.



- The web-GIS portal developing a on-line client application through the project web page <u>www.carnivoremari.ro</u> where there are available two versions of the database:
- a public version with limited access for general pubic (contains thematic maps and information on project activities, conflict areas, limits of national protected areas and Natura 2000 sites areas in different conservation status, contacts data and territorial jurisdiction of public institutions, managers of protected areas and wildlife management funds etc.

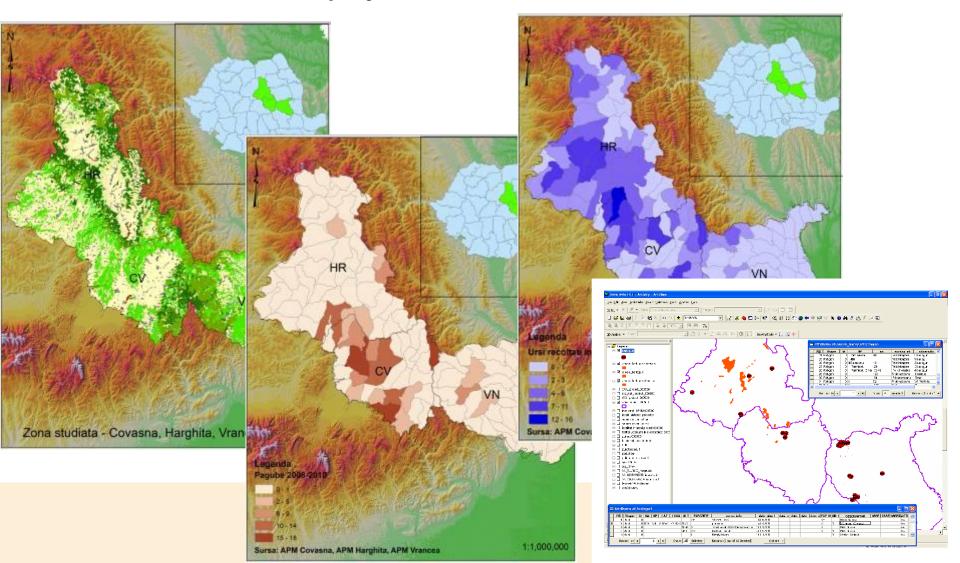
a full and secure version, up-dated by EPA Vrancea at which they have on-line access the partners in this project. This version provides analysis and sustainable decisions in real-time, ensure completion with information by all partners and first of all ensure coherence of activities implemented to achieve project objectives.







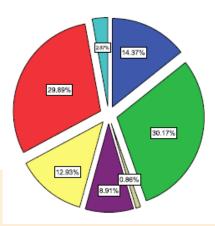
ACTION A.2: Creating an integrated GIS database to support and demonstrate conservation actions of the project

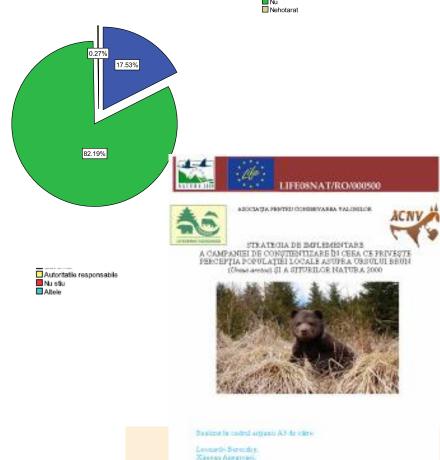


ACTION A.3: Elaboration of a strategy for implementing the raising awareness actions, based on the assessment of the local people's perception of the target specie in the Natura 2000 site's ecological network

The elaboration of the strategy was based on a sociologic study targeting the level of knowledge of people about Natura 2000 sites and the brown bear.

The research had a total sample of **433 people** in the above areas, aged between 16 and 60 years.





ACTION A.4: Analyze the bear damages at the entire project's area level in order to establish the protection system's implementing sites

Database on the damage caused by bears is GIS compatible

Analysis of collected data'in the field were completed through achieving and editing of a "Methodology for implementing the protection systems for crops, orchards, sheepfolds and apiaries for reducing the damages caused by bears" that directs how the project team implements protection systems for sheepfolds, crops, bee farms and orchards.

Metodologie pentru implementarea sistemelor de protecție a culturilor agricole, șeptelului și stupinelor în vederea reducerii pagubelor produse de urși



2010

LIFE0SNAT/RO/000500 - LIFEURSUS



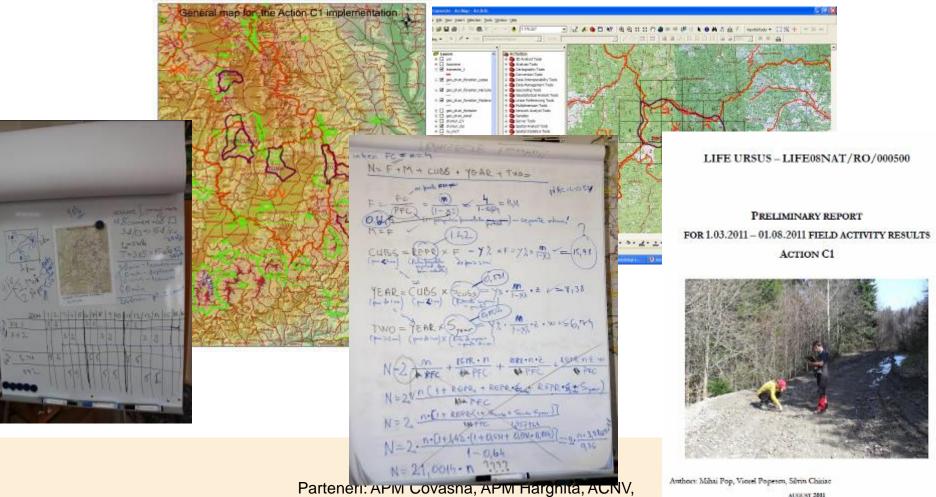


hope hope also	(2+) 29 - mar
gang 🚳 maldan-sonancte. 🛛 near mai maker . 📑 impojtemmi ceu	ET. 🛄 MEDICALIDALIMA AN. 🛄 DOOGR THANKING
) 🚊 🔍 🖡 furture talo	
LINTE PRODUCT	
NO CONNECTIO DESIGN SERVER MANAGE LONG MADE AND THE INTERPOLICY CONTRACTOR ADDRESS ADDRES ADDRESS ADDR	
ADD LOCATE PARKING UNKE	NUME NAME ADDRESS. TELEFOR BATA ATAC LODGE, ATAC ACTIVITIANE
	Kons Apel Aluger 1973 204943 In Mile Hand de Hand
	false Highly Jarger, 101 2016/Cel in papel minal transl durings
	Ped Hotes Assignt, 2017 2019-01 in pedial teacher Hand dermain Edited Bob Assignt, IB-3 3029-012 in pedial leaded in tend dermain
and a second paper of the count of the second	Ton trade Angel, M.A. Aller, M. Aller, M. Aller, M. Aller, M. A.
+ Jan	Carrier Company and an and an
Mar 4	
	and the state of the state of the state
A REAL PROPERTY AND A REAL	and an descent
CONTRACTOR AND A CONTRACTOR AND	And A CONTRACTOR OF AND ADDRESS OF ADDRESS O
AND A TANK AND	The second se
A Bert and the second s	The state of the second s
HARD THE REAL PROPERTY OF THE DESCRIPTION OF THE DE	A CONTRACT AND A REAL PROPERTY AND A REAL PROP
A STATE OF A	A A A Constitute
	The second discourse of the second of the
and the second s	and the second second second balance markers
and the first the second se	
The second second second second	and the state of the state
a horas and a second	A CONTRACTOR OF THE PARTY OF TH
The second s	EMA Server & Longitude - Langer - 14
	The same and the second s
and the linear Distance in the second of the	and the second sec
Allow the The Local Allows	A California Colore Martin
the state of the s	Carl And Louis Course and
A A A A A A A A A A A A A A A A A A A	To SP) 20 minutes and the second sec
Take of the second seco	A 100 10 100 100 100 100 100 100 100 100

and shall many lines. There, There, There, There, There, There, There, Shall a State of the stat



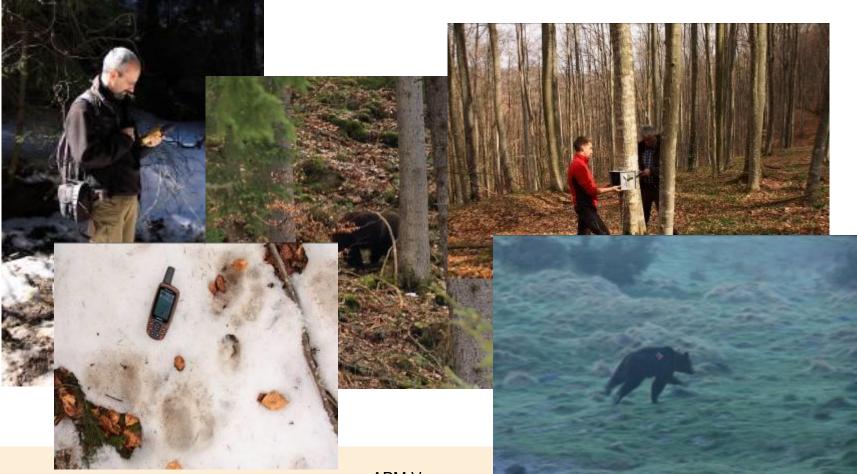
ACTION C.1: Demonstrative application of a method set for quantitative and qualitative assessment of the bear population in areas strictly demarcated and administrated from game management point of view



ACDB



ACTION C.1: Demonstrative application of a method set for quantitative and qualitative assessment of the bear population in areas strictly demarcated and administrated from game management point of view



ACTION C.2: Creation and demonstrative working at the entire project's area level of an entity which will establish the risks and necessary measures in situations created by problem bears

- 🥘 - - - 🛞 - - - - 🔛 🏡

Metodologie pentru evaluarea riscurilor ridicate de prezența urșilor în zonele locuite

RAT (Risk Assesment Team)



2010

LIFE08/NAT/RO/000500 - LIFEURSUS

e provocate de urs? -e az ön gazdaságában által okozott problémák?

în primejdie gospodăria sau siguranța ta? a, hogy ez veszélyeztotka biztonságát?



situații np util un Primăriei, gestionarul re din zonă, u solicită ormeze nției Mediului, llyen esetekben azonnal értesítse a Polgármesteri Hivatalt, a helyi Rendőrséget vagy a vadásztársaságot. Kérje ezek képviselőit, hogy mielőbb hívják a Megyei Környezetvédelmi Ügynökség csoportját.



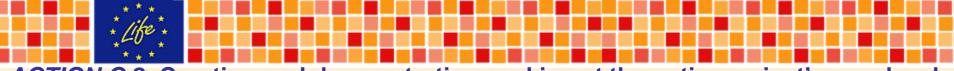
Risk Assessment Team Activity report on LIFE08/NAT/RO/000500 project March 2010 – December 2010

> Responsible for the action: EPA Covasna Authors of the report: Ioan Mihai Pop, Szabo Szilard, Radu Mihai Sandu

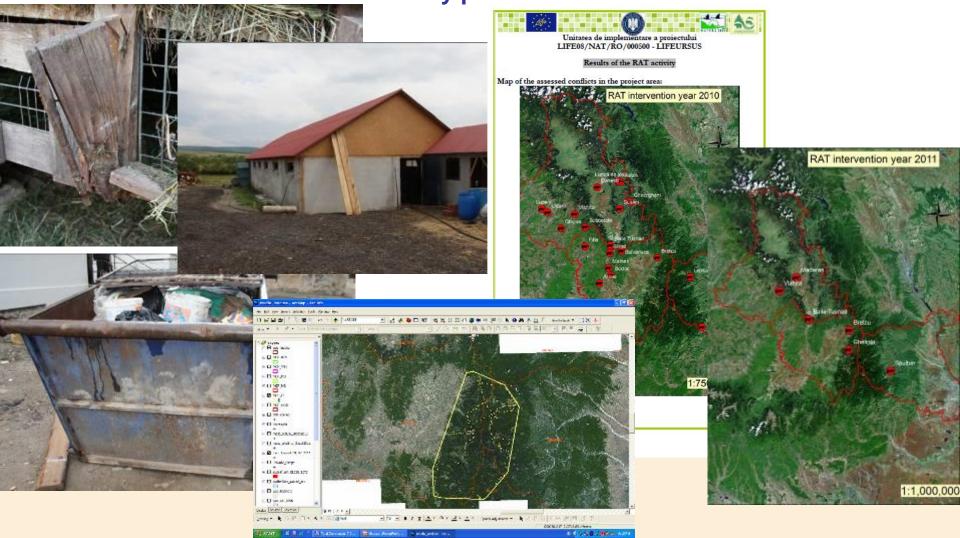
December 2010



Court-SHEDI, MAT, VOL 000000 LIFED SEE – XPW Values A. KPM Carates. APM Rangillas cara materia in Nal. Jackies co. sostiput Yuanatari al Disarda Europene prin Internediati ognimicala UPD+. Responsibilitatios persos comprisado materialmente investigandas analysis establistica resplaya gardiacontech Disagana.



ACTION C.2: Creation and demonstrative working at the entire project's area level of an entity which will establish the risks and necessary measures in situations created by problem bears





ACTION C.3: Extending of the Animal Rescue Mobile Unit (ARMU)'s action range at the entire level of the project area and insuring of rapid interventions for capturing, relocating and monitoring of problem bears

Objective: Prevention through different actions of rescue, trap release, relocation, monitoring of brown bear population decline caused by poaching, accidental killing of specimens from human-bear conflict areas.

Animal Rescue Mobile Unit - ARMU team - and the Center for Monitoring and Rehabilitation of Large Carnivores - CRCM - were established in LIFENAT05/RO/000170 project, "Enhancing the protection system for large carnivore in Vrancea County"

The Center for Monitoring and Rehabilitation of Large Carnivores represented by the building in Lepsa Funicular, which implies the existence of areas of care medical and temporarily held of animals, representing the base of shelter and work for the field team.

The second component is the **Animal Rescue Mobile Unit** materialized in the field pick-up having function of veterinary ambulance.



- Between January 15, 2010 and August 30, 2011 ARMU worked in actions aimed at 28 exemplars of the species Ursus arctos;
 - 1 exemplars released from improvised traps and returned to the natural environment;

- 5 exemplars captured and relocated;
- 22 exemplars (cubs) taken in rehabilitation programs in the centers of Lepsa - Vrancea and Balan, Harghita.
Seven of these specimens were taken from the project area;

In the same period, ARMU has been duly of 5 cases of bears immobilized by poachers in traps in the project implementation area, but of these, one died before ARMU arrival, for another exemplar the hunting manager, due to irrecoverable state decided to euthanize the bear, and in three cases the team has not found the bears, which were selfreleased.



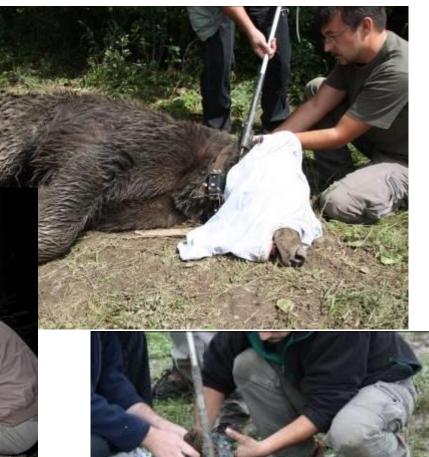
Medical intervention room in realized according to maintrian/veterinary standards and it is enforced with all processors processors and have been





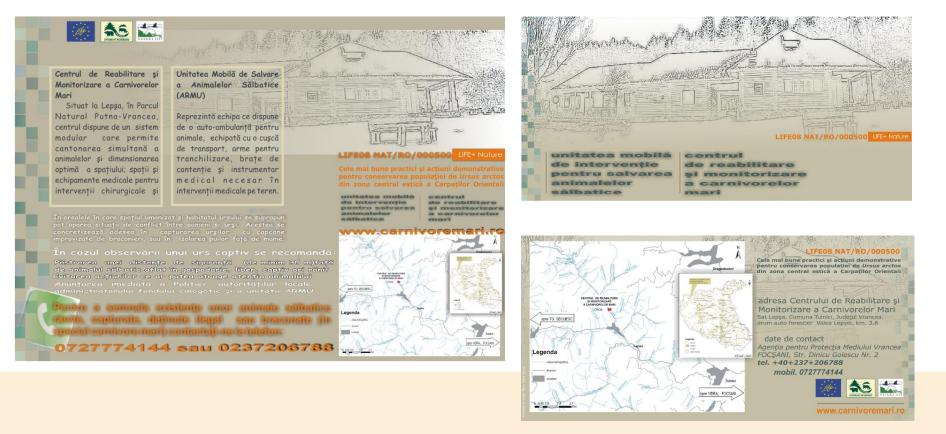
Supporting RAT !







In order to inform local authorities and locals in the area of project implementation about the existence of ARMU and the Center, it was designed **a poster and a leaflet** promoting their actions, following to be published and distributed in the area of project implementation





ACTION C.4: Reducing of juvenile mortality caused by human disturbance with the protection of hibernation dens in the cub nourishing period

Objective: Reducing of juvenile mortality caused by human disturbance with the protection of hibernation dens in the cub nourishing period

In achieving the objective of the action it has pursue touching these goals:

- Identifying the dens location and implementation in GIS format of this information for their analysis in relation to the position of exploitation prosecution or of potential plans/projects;

- Identify of occupancy periods of dens correlated with values of measured climatic parameters (temperature, humidity, dew point);

- The establishment of direct or indirect correlation between temperature changes imposed by global warming and behavior of bears during winter sleep;
- Analyze the impact of human activities on juvenile mortality;



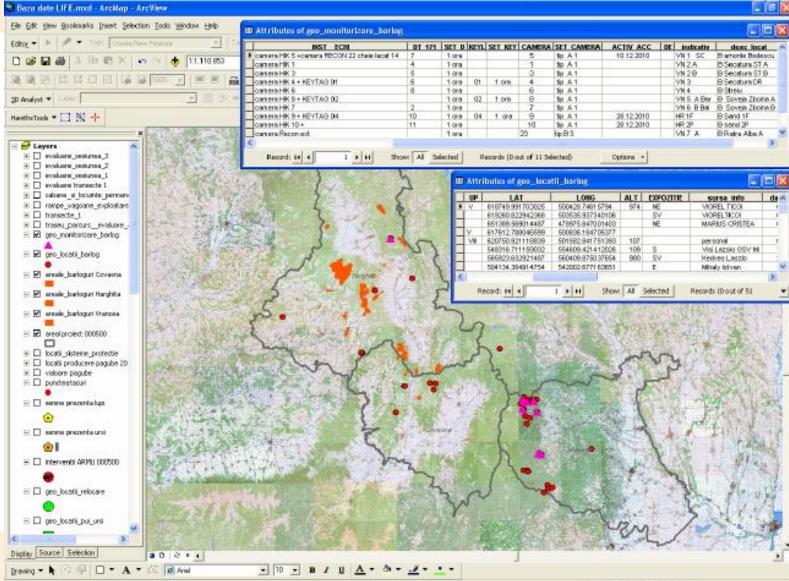
Based on these sources
there have been identified
until 01 September 2011
on the area of project
implementation:
76 areas with dens and
areas where bears have
repeatedly wintering in
the last 5-7 years.
61 dens for which it has

been achieved precise location and there were made measurements of physical parameters.









Transpunerea in baza de date GIS a informatiilor

907919,7 604781,668 Meters



Monitoring systems of bear dens include:

camera network IP HIK VISION, model: DS – 2 CD 802PF, *storage environment* card SDHC 16 GB;

unidirectional microfon; spot led 12V;

recorded (temperature, humidity, dew point) *SYN DT - 171* installed inside the den set to record parameters every 60 minutes;

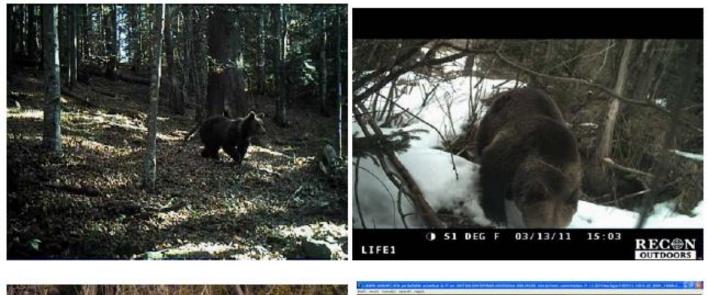
recorded (temperature, humidity, dew point) *Trix 8* installed outside the den; camera Talon Extreme 3.0MP *Digital Scouting Camera, Recon* installed for monitoring the space outside den, body camera and also the recorder of climatic parameters were installed in metal skeletons against destruction by bear.













Imagini fotografice si secvente de filme capurate cu echipamentele instalate in vecinatatea sau in interiorul barlogurilor in sesiunea de monitorizare septembrie 2010 - mai 2011

ACTION C5: Lobby for adopting by the Environmental Ministry (MM) and the Ministry of Agriculture, Forestry and Rural Development (MADR) of a methodological guide on the optimal methods of assessing the brown bear population



Spacial and time planning in the framework of the action C1



"Demonstrative application of a method set for quantitative and qualitative assessment of the bear population in areas strictly demarcated and administrated from game management point of view"

LIFE08/NAT/RO/000500 - LIFEURSUS



Parteneri: APM Covasna ACD





Taxania de bostal

Unitated do in a plottere transfer or addi-LUP FOR NAME / SCH (SOLARD, 11) POTTERING

aded area reade LIPE II. N./T. R.O. (10) 510. Proceeding on gran LTL +

GHID pentro aplicarea demonstrativă a unui set de metode pentru evaluares cantitativă și calitativă a

populatilies de une in cadrol fonducilor cinegetice sau

artillor procejare-

Realizer is carical activates C1: These examples application of a writes on for socializities and socialization anemant of the best population to areas retain demonstrated and administrated from your management point of these

-Varianta de lucas I-

2010 Environ - Sana Malas F DF Environmy of Malas - do Named D. F DF MACC 1975 Manuar - do Maria Childran C. Rado Malas 140/DV marily BARLECIE

ferrary 2013

ACTION C.6: Implementing at the entire project level of several demonstrative crop, livestock and farm protection systems by using repelent equippment and substances

Based on the analyze made in action A4 and on data regarding the conflict areas saved in the GIS data base during the implementation of action A2, in every spring (until May) each year are going to be mounted at least 30 protection systems around live stocks, crops, and farms in every site where existed conflicts or damages made by bears.

electric fences







flags cords



repellent substances



audio-visual systems

Li CI Adversive substances



1. Implementation the protection systems.

- The 30 protected perimeters are located in the Vrancea, Harghita and Covasna counties in areas where human activities and bear habitat overlap, conflicts being generated by the existence of some trophic offers. Mixed protection systems consisting of electric fences, flags cords, audio-visual systems and repellent substances, have been installed in: 14 sheepfolds with sheep and goats, 1 cattle ranch, 8 crops, 6 orchards and 1 apiary (in 2010).
- In 2011, respecting the same procedure needed to select the location in which to be implemented the damage reduction systems, there were installed in the three counties 28 mixed protection systems (9 sheepfolds with sheep and goats, 3 cattle ranch, 4 crops, 2 orchards, 6 mixed farms and 4 apiary.
- 2.The supervise the system's work by visits of the sites and completion of the supervising surveys in order to avoid technical problems and the mission's success assessment.
- **3. Analyze the cost and benefit balance.** Will be realized a file of every protected site, in order to evaluate the action's efficiency.





BEFORE LIFE

LIFE









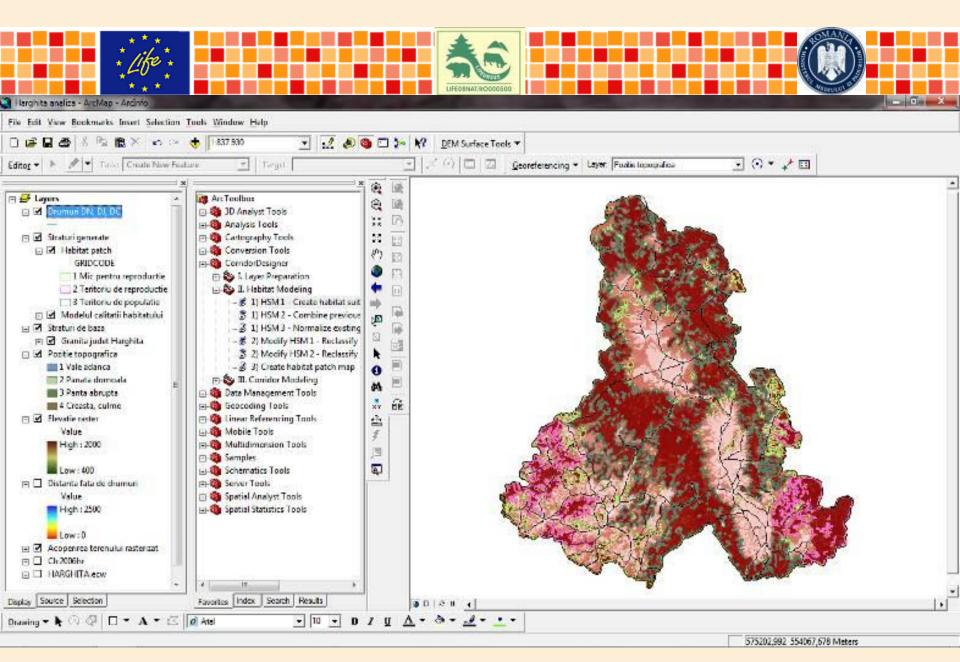
ACTION C.7 Analyze of the degradation and fragmentation level of the brown bear habitats.

- The aim of this action is to analize the degradation of habitats caused by human activities in Natura 2000 sites and neighborhood in the whole project area, pinpointing the most affected areas, which becomes inproper for the brown bear.
- As a preceding phase of GIS analysis, there has been preparing layers in vector format, stereo 1970 compatible with GIS portal, having regard to:
 - a. Land characteristics (category of use, degree of degradation etc)
 - b. Altitude
 - c. Distance to towns, roads, rivers
 - d. Sources of attraction (nourishing, orchard, sheepfolds, landfills etc).
- The proper GIS analysis will take place in the next phase of the project and will be realized
- After obtaining the results and it will be realized verification and correction of model obtained based on field checking in critical areas. Based on these, it will be developed the final model and the set of measures proposed to reduce degradation and habitat fragmentation.









APM Vrancea Parteneri: APM Covasna, APM Harghita, ACNV, ACDB

ACTION D.1: Promotion of the project, it's objectives and

98 articles in local and national press 7 articles on internet, there have been registered 10 appearance at local TV 4 appearances on local radio.

leaflets achieved in RO (3000 pieces) an EN (1000 pieces)

personalised paper folders (200 pieces), plastic pens (500) **T-shirts** (300) calendars (300). the annual newsletter, covering the period 15.01.2010 - 31.01.2011presentation posters at each partner headquarter





Demonstrating the co-existence of humans and large carnivores

vation can have a beneficial socio-

anian 'co-extabance' LIFE reby being carried out. The NAT/RO/000000, is focussing on tack ing the threats to the region's brow to build on the experience thear -Kitness sectors) per receive this to tare of " IRSI ISI IFT - Re-

udiák, a adkárok

niatt a

cask keys

Mihai Pop

24 órája var







ACTION D.2: Install notice boards

•10 informative panels contain the main data about LIFEURSUS project, its aims and objectives and all elements that promote LIFE + source program and financial support of European Commission.

•10 informative boards having de 200 x 150 cm, metal frame and protection against ultraviolet radiations were installed in areas of visitor traffic in Natura 2000 sites. The panels contain information about the project, targeted species, proposed conservation actions, rules of conduct in sites inhabited by bears, site map.





ACTION D.3: Awareness campaign for promoting the brown bears conservation and conflict reduction methods.

Two seminars with stakeholders

Three press conference and field trip.



ACTION D.4 Awareness campaign in order to promote the best practices and actions necessary to protect the hibernation dens and diminishing the causes which lead at the cub's abandon.

ACNV conceived and printed 3 types of leaflets:

-Don't disturbing me in my den and I will not disturbing you! - for tourists (3000 pieces)

- Dens protection is essential for species conservation - for forest exploiting companies and personnel from rural area (100 pieces)

- *Dens protection is essential for species conservation* – for wildlife managers and their field personnel in the project's area (500)

> In Harghita County there were organized two seminars with stakeholders in direct relation to the den protection

ACTION D.5: Awareness campaign for promoting the communitarian interest sites, designated for large carnivore conservation, and for promoting the socio-economical benefits generated by the Natura 2000 site status.

DVD multimedia ce avem nevoie de Natura ? General knowledge Situri Natura 2000 în județele Harghita și Covasna about Natura 2000 Natura 2000 területek Hargita és Kovászna megvéber •Knowledge LIFEURSUS project •Natura 2000 sites in the project •General knowledge 3@0 about the brown bear Contact and links Leaflet with information about the Natura 2000 network Bookmarks Complex map of Natura 2000 sites 15 events related to the nature protection



ACTION D.6: Awareness campaign for promoting local traditional products of farmers and handcrafters as tool to improve coexistence with brown bears in Natura 2000 sites

At the date of the report preparation, it was achieved a database (Excel format) containing information about manufacturers and products which meet our requirements





ACTION E.1: Project coordination, project management and financial administration

Project management team with following members:

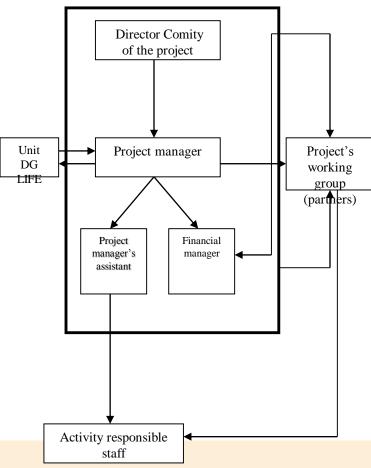
- Mr. Silviu Chiriac, project manager
- Ms. Mariana Gheorghiu project administrator;
- Ms. Maria Plesa *financial administrator;*

The activities work packages are coordinating by responsible for activities:

- Data base analyze, GIS, SFC- (Szabo Szilard- EPA HR)
- Monitoring, evaluation of conflict situations- (Ioan Mihai Pop, EPA CV)
- Capturing, tranquilizing, relocation- (Sandu Radu, EPA VN)
- Damage reducing methods (Radu Gelu, ACDB)
- Public awareness, education activities (Bongeac, EPA VN)

The members of the Director Council are:

- Bernadt Zelma Executive Director, EPA HR
- Benedek Kaplar Gabor Executive Director, EPA CV
- Giurca Paul Executiv Director, EPA VN
- Cosmin Adrian Stîngă President of ACDB
- Leonardo Bereczky President of ACNV





ACTION E.2: Measuring the project success (project monitoring)

Scientific Council :

- Associate Profesor Dr. Laurentiu Rozylowicz
- Associate Profesor Dr. Cristian Ioja
- Dr. Cristian Tetelea Demostene
- Biologist Ciurescu Stefan
- Forestry engineer Vlad Radu
- Forestry engineer dr. Candrea Bogdan

External monitoring.

- Sources of verification.
- Quantifying the project and conservation actions success is permanently achieved through using of some preestablished indicators.



ACTION E.3: Networking with other projects

- LIFEXTRA project –consultation related with damage, participating to seminars
- International conferences
- two IBA Conferences 1 oral presentation and 5 posters
- two Conferences related to ecology three oral presentation
- WWF-DCP Developing of the management plan for Herculian Natura 2000 site
- Photo exposition Romania Student Tour
- Voluntary/research programme 9 volunteers



Thank you!

www.lifeursus.carnivoremari.ro

www.carnivoremari.ro