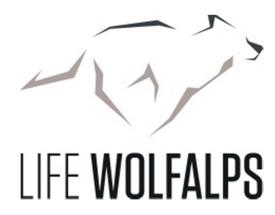
AFTER LIFE CONSERVATION PLAN



Project LIFE 12 NAT/IT/000807 - Wolf in the Alps: implementation of coordinated wolf conservation actions in core areas and beyond

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May 2018





THE LIFE PROGRAMME

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The LIFE programme is the Project LIFE 12 NAT/IT/000807 WOLFAPS e EU's funding instrument for the environment. The general objective of LIFE is to contribute to the implementation, updating and development of EU environmental policy and legislation by co-financing pilot or demonstration projects with European added value.

Website:

ec.europa.eu/environment/life

LIFE12 NAT/IT/000807





ABBREVIATIONS AND HOW TO CITE

Abbreviations:

EAM: Ente di Gestione delle Aree Protette delle Alpi Cozie **CF:** Carabinieri – Forestale (ex Corpo Forestale dello Stato)

MUSE: Museo delle Scienze di Trento

PN Alpi Cozie: Ente di Gestione Aree Protette Alpi Cozie **PN Ossola:** Ente di Gestione Aree Protette dell'Ossola

PNVG: Ente Parco Nazionale Val Grande

RL: Regione LombardiaRV: Regione del Veneto

TNP: Triglavski Narodni Park **UL:** University of Ljubljana

CGC: Centro referenza regionale Grandi Carnivori (Large Carnivore Centre of regional reference) - Regione

Piemonte

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CONTENTS

The LIFE programme	2
Abbreviations and how to cite	3
About the LIFE WOLFALPS Project	4
Threats	6
SWOT analysis	10
The After-LIFE Conservation Plan:	
1. Coordination	13
2. Monitoring of wolf population	14
3. Prevention	16
4. Antipoaching	18
5. Managing injured wolves and hybrids	23
6. Wolf ecotourism	24
7. Management measures	26
O. Communication	20

ABOUT THE LIFE WOLFALPS PROJECT

The main goal of the Project LIFE WOLFALPS was to facilitate long-term conservation of wolves in the Alps of Italy and Slovenia and their coexistence with humans, by implementing coordinated wolf conservation actions in key core areas (i.e. key areas particularly important for the species) and over the entire Alpine territory, based on identified threats for the species, from Western to Eastern Alps.

The population is increasing in density in the Western Alps, and now expanding in the territories of the Central-Eastern part. Wolves are protected both in Italy and Slovenia (Annex II of the Habitats Directive) and the populations in these Countries are expanding into areas where they have been absent for decades. In the decades when wolves were absent, Alpine shepherds lost the habit of coexistence with large predators, and lack nowadays knowledge of preventive measures, therefore the impact of the first recolonizing wolves is usually high and conflicts rise. Poaching is still one of the major causes of mortality, which indicates low level of human acceptance. Fragmentation and habitat loss are increasing, also due to the increment in tourism development. Optimal reproductive sites are diminishing and road kills increasing. An optimal coordinated management is made difficult by the high administrative and institutional fragmentation both in Italy and across the Alps. The LIFE WOLFALPS Project actions aimed to operate in this framework, as well as the activities promoted in the present "After LIFE Conservation plan", by implementing coordinated conservation actions both in territories where the wolf has already been present for 10-15 years (Western Alps) and in areas where the process of re-colonization has just started and is currently ongoing (Central and Eastern Alps). Taking into particular account the role of communication, because coexistence is built on tolerance and "there's no conservation without conversation" (L. Boitani).

Hence, important coordinated conservation actions had (in Life WolfAlps), and have (in the Post Life Conservation Plan), the main objective of:

- Decreasing the impact on livestock husbandry by implementing effective preventive methods
- Decreasing the level of poisoning and poaching
- Increasing knowledge on wolves among hunters, shepherds, local communities, students, and citizens
- Containing habitat loss that causes loss of reproductive sites
- Detecting and control wolf-dog hybridization events and injured wolves
- Sharing best practices and experiences over the Alps

Expected longer term benefits aim to reach the favourable conservation status for the wolf population in the Alps favoring wolf-human coexistence on the long term.

Significance and Impact of the LIFE WolfAlps Project

In five years the LIFE WOLFALPS project became the major reference for wolf issues in the Alps of Italy and Slovenia. On a European level, it represented an example of best practices for the management of a wolf population in areas where both its presence is long-term established, and also just returned. And importantly, LIFE WOLFALPS succeeded for the first time in resolving issues with the population that have been at the core of wolf-human coexistence for decades. The project brought together Institutions, managers, experts, hunters, farmers, volunteers, journalists, rangers and created a Network of trained and informed people essential for the future of nature conservation in the Alps. In the Post LIFE Conservation plan we aim to further maintain such Networks at the Italian and Slovenian Alpine level.

Project title:

WOLF IN THE ALPS:

IMPLEMENTATION OF COORDINATED WOLF CONSERVATION ACTIONS IN CORE AREAS AND BEYOND

Acronym:

LIFE WOLFALPS

Time frame:

Started: 01/09/2013 Ended: 31/05/2018

Coordinating beneficiary:

Ente di gestione delle Aree Protette delle Alpi Marittime

Associated beneficiaries:

Carabinieri – Forestale (ex Corpo Forestale dello Stato)

MUSE – Museo delle Scienze di Trento

Ente di Gestione Aree Protette Alpi Cozie

Ente di Gestione Aree Protette dell'Ossola

Ente Parco Nazionale Val Grande

Regione Lombardia

Regione del Veneto

Triglavski Narodni Park

University of Ljubljana

Project budget and requested EU funding:

Total project budget: 6.100.454 euro

EU financial contribution requested: 4.174.309 euro

Project website & social:

www.lifewolfalps.eu

Facebook @Progetto LIFE WolfAlps

THREATS

The natural expansion of wolves in the Alps is a great challenge for wildlife managers because the goal is to achieve a **viable wolf alpine population, while minimizing the conflict** that wolves might generate in an environment with high human densities and high levels of habitat fragmentation.

Threat 1 | Conservation and management fragmentation

The transboundary wolf population in the Alps has been considered a unique and distinct entity after the "Guidelines for Population Level Management Plans for large Carnivores" endorsed by the European Commission in 2008. Therefore, it should be monitored and managed as such over the boundaries.

The Alps are a very fragmented and constantly changing political landscape, with high administrative and institutional fragmentation mainly present within Italy. In Italy responsibility for environmental issues is delegated down to the level of individual Regions, or even Provinces and singular Protected Areas. This management fragmentation poses an important challenge related to wolf conservation. Efficient monitoring at the wolf population scale is necessary for efficient management and conservation of wolves in face of socio-economic and landscape change. The negative effects of this administrative fragmentation can be minimized by highly coordinated conservation actions at the alpine scale. With WOLFALPS Project it was possible to contrast this threat by the implementation of national and international coordination groups, defining common and standardized approaches to enable an efficient minimization of conflicts at the wolf population scale, which has never been done before. Hence, a coordinated conservation program, shared between the different regions in the Italian Alps, has been a fundamental and innovative action of LIFE WOLFALPS. The need would be to try to maintain such a cooperation over the Italian Alps.

Threat 2 | Poaching and poisoning

<u>Poaching is the major cause of wolf mortality in the Alps</u> (Report Action A4, Marucco et al., 2017), which indicates a low level of human acceptance. This situation is worrying given the fact that poached wolves are very difficult to find and document. The most dangerous and used method to poach wolves is poisoning. The illegal use of poison is the most serious threat for wolf conservation and has serious negative effects also on other species, such as small carnivores and scavenger raptors, and on the overall ecosystem. Attempting to achieve a high degree of viability of the wolf population require a management regime based around reducing human-caused wolf mortality to a minimum. The WOLFALPS project has been successful in intensifying the level of detection and implemented a multidisciplinary proactive strategy enabling an efficient control of illegal wildlife crimes over the entire Italian Alps.

Threat 3 | Conflicts with livestock husbandry

Wolf persecution in retaliation for damages to livestock is widespread all over its range. This is one of the main problems for wolf expansion and long term establishment in the Alps. Livestock husbandry is widely supported by Italian, Slovenian, and Alpine governments. In the decades when wolf was absent, Alpine shepherds have lost their tradition of coexistence with large predators, and lack knowledge of preventive measures, therefore the impact of first recolonizing wolves is high. In order to increase shepherds tolerance with large predators, the WOLFALPS project operated differently in the Western Alps, where wolf packs settled for 20 years, adapting preventive measures to a case by case situation and implementing new

preventive strategies for cattle. The prevention strategies of the Western Alps has been transferred to the Central-Eastern Alps, not only through the installation of fences and the assignment of livestock guarding dogs, but also thanks to several meetings of interchanging of information and experiences between shepherds coming from the two areas. Where the prevention systems have been given by the project, a high depredation decrease has been recorded.

Threat 4 | Conflicts with hunters

Another widespread conflict is with hunters, who <u>perceive wolves as a competitor for shared prey species</u>. Wolves in the Alps feed mainly on large mammals, which are all game species and thus in the main interest sphere of the hunters. Hence, hunters often blame the predators for reducing the game abundance and availability. In order to increase their knowledge on wolves, as well as to consider their suggestions and discussion in any management strategy, <u>local platforms</u> have been organized, together with the production of an informative publication on predator-prey dynamics. Furthermore, the technicians of the Alpine hunting districts have been involved in the monitoring.

Threat 5 | Social conflicts

Beyond these conflicts there are a wide range of social conflicts that range from a direct fear for personal safety in the presence of wolves to a fear of the social-economic changes (such as changing societal values or rural-urban migration) that wolves often come to symbolise. These conflicts often lead to a very low tolerance of wolves among the rural communities with whom they have to share living space. Often, negative public attitudes towards wolves are amplified by sensationalistic media reports. Sensationalistic reporting by media directly decreases public tolerance of wolves and enforces the fear of wolves, which originates mostly from ignorance and incorrect information. There is little awareness of the ecological value of the large carnivores. Communication strategy of WOLFALPS has been characterized by the slogan "Listening before speaking" with the aim to set up a system (HD study, daily press review analysis) able to perceive attitudes of the general public and of the key stakeholders towards the return of the wolf on the Alps. Then we acted and reacted consequently: the communication strategy had the main objective to inform and to engage the public through a multi-disciplinary, multi-platform and multi-language two-ways approach to manage to efficiently reach such a diversified target and always keep in contact with the public and have a feedback. Actions of the first Wolf Alpine Coordinated Communication Group ranged from standard communication products to special initiatives as: courses for journalists, social media communication, original educational programs and tools, travelling exhibitions, theatrical plays and open air installations. At the end of five years packed with work WOLFALPS succeeded in becoming a reference for wolf issues in the Alps for journalists, stakeholders and general public.

Threat 6 | Habitat loss affect suitable reproductive sites

<u>Fragmentation and habitat loss are increasing within the Alps</u>, also due to the increment in mass tourism development, and optimal wolf reproductive sites are diminishing as well as road kills increasing. Human settlements and the high levels of tourism might affect wolf distribution, and can be particular important if they reduce potential reproductive sites, which are the most vulnerable place for wolves. Reproductive sites are very sensitive to human disturbance, and quite places are nowadays rare in the Alps, especially due to tourism development and other human activities (e.g. logging, spelunking, grazing). Within the WOLFALPS

Project <u>Species-specific Conservation measures</u> (Action A9) have been developed to protect the species reproductive sites from habitat loss in Piemonte Region, in coexistence with a <u>wolf friendly eco-tourism development</u> (Action C4) and human activities.

Threat 7 | Hybridization with dogs

A relatively recently recorded threat to wolf conservation is the <u>hybridization with domestic dogs</u>. The widespread presence of dogs and the lack of control of occasional hybrids in Italy, makes them to represent a serious threat to the conservation of the genetic identity of wolf. During WOLFALPS Project this issue has been highly monitored and <u>no hybrids have been detected in the Alps</u>. Furthermore, considering the importance of the topic, the hybridization has been addressed in the general Guidelines for the management of the species.

Threat 8 | Genetic isolation

Wolf long term viability needs to be addressed considering the genetically variability of the population, taking into consideration that the alpine wolf population was naturally generated 20 years ago by natural dispersal of wolves from the Apennines. Bottleneck simulations showed that a total of 8-16 effective founders explained the genetic diversity observed in the Alps (Fabbri et al. 2007). Therefore, the levels of genetic diversity in the current expanding alpine wolf population totally depends on future successful migrants from the Apennines. Moreover, an interesting slight connection has been documented with the Dinaric population from Slovenia, important because an immigrant from the Dinaric population could enormously improve the overall heterozygosity of the alpine population. Spatial analysis of potential connectivity within these areas and the Alps, and a constant evaluation of the genetic status of this new population, has been evaluated within Actions A10 and A4-D1, which had management implications especially in the drafting of the Guidelines for Wolf population Management of Action E9.

SWOT ANALYSIS

We've used a structured planning method called SWOT analysis to evaluate the strengths, weaknesses, opportunities and threats at the end of the project. The analysis allows the identification of internal and external factors that are favourable or unfavourable to achieve a certain objective or a goal. The overall goal of the WOLFALPS project was to facilitate long-term conservation of wolves in the Alps of Italy and Slovenia and their coexistence with humans. A series of specific objectives and tasks were then after designed in order to ensure the contribution of the project to the abovementioned overall goal. As a result of the project structure and its objectives, the SWOT analysis was first carried out separately for each of the concrete conservation and awareness raising actions in the project. After that a meta-analysis was performed and an overarching SWOT matrix for the project produced (below).

Opportunities

- Interest for periodic update about the status of wolf Alpine population by the institutions permitted a wider diffusion of project data and results.
- Discussion about the Conservation and Management Plan at the National scale raised attention among the general public on the topic of wolf conservation
- Transfer of knowledge and best practices among the farmers.
- Measures to support farmers who use good working lines of livestock guarding dogs (LGDs)
- External support to trained LGDs by private animal food companies. Willingness and interest of the authorities to use and disseminate the project results.
- Networking with exchange of experiences, knowledge and good practices among other large carnivores projects and experts in Europe.
- Visibility and authority reached by the project could help the implementation of other large carnivore conservation activities and projects.
- Attractiveness of the wolf theme for schools (it guarantees the implementation of project educational activities and the dissemination of correct information about large carnivores among the new generations).
- Project promotion increases public awareness also for other conservation topics.
- Attractiveness of the interdisciplinary wolf topic could increase and fasten the dissemination of project studies and results among scholars and technicians.
- Involvement in dialogue platforms among different interest groups.
- Interest of Nature Guides to continue after the end of the project to promote trekkings, hikes and event focused on a correct image of wolf.
- Interest of cheese producers and farmers to further develop.
- Interest of the publishing word at national scale for the wolf issue and interest in involving project staff in book writing.

Threats

- Scapegoating large carnivores for political ends during election time.
- Lack of knowledge of some journalists and thus tendency to present wolf topics with alarmistic talks.
- Lack of confidence in the institutions (and thus in projects which represent institutions) among part of the population, in particular in mountain and rural areas.
- Political instability at the National scale (Italy) and lack of interest for conservation and environmental themes.
- Legislative gap about hybrids management.
- Phenomenon of the exploitation of Alpine pastures from big farmers who have no interest at all in proper using of damage prevention measures.
- Lack of personnel for dissemination events and educational activities after the end of the project.
- Lack of personnel for coordinating the after project initial phase of some new activities
- Lack of personnel for keeping the daily press release on wolf issues.

External origin

1 | COORDINATION

The lack of any form of coordinated management, due to the high administrative and institutional fragmentation mainly in Italy, but also among the different countries across the Alps, was one of the most crucial challenges. Therefore, the implementation of the overall organization of the LIFE WOLFALPS project, which was built up on a shared and coordinated conservation program implemented within the different administrative bodies in Italy and Slovenia, was the first success of the Project to support wolf conservation over the Alps. The partnership agreements established with each Partner and Supporter have been further enriched by new agreements, protocols and/or statements of cooperation with stakeholders, Provinces and Regions in order to establish a coordinated network among institutions, throughout the Alpine region for wolf monitoring and management. The complexity of this Project is its strength and we have succeeded in creating a cohesive group of 12 Partners and 46 Supporters, who developed coordinated strategies, comparative analysis relevant to the proper implementation of the conservation actions, and coordinated communication activities adapted to local realities. An impressive amount of silent administrative work has gone on behind the scenes to harmonize and report on the progress of a transregional team.

Overall goal: the maintenance of alpine coordination groups, defining common and standardized approaches shared between the different regions in the Alpine Countries.

Measure	Responsible	Funding	Timeframe
Foresee regular meetings	Regione Piemonte and	Internal budget	2018, 2019, 2020.
of the Italian Alpine regions	EAM, Regione Lombardia,		At least one per year,
Board, which has been	Regione Veneto, all		meetings will be regularly
created in the framework	Partners		hold in Milano at the
of LIFE WolfAlps, to plan			Regione Lombardia.
common activities in			The first one has been hold
collaboration with MATTM			in Milano on the
and ISPRA			21/06/2018, in the
			framework of the After Life
			Plan, where every Italian
			Region/autonomous
			Province participated
			(Annex 1)
Overall coordination of the	EAM and Regione Piemonte	30.000 £	2018-2019
common activities			
conducted at the alpine			
level by the CGC	All Double and FANA CCC	Callabarration with internal	2040 2022
Ensure a common	All Partners, EAM-CGC	Collaboration with internal	2018-2023
approach for the conservation of the wolf in		personnel	
all Alpine regions			
Implementing coordinated	All Partners	Collaboration with internal	2018-2023
conservation actions	All rai tileis	personnel	2010-2023
Conservation actions		personner	

2 | MONITORING WOLF POPULATION

It is fundamental to implement coordinated actions for long term wolf conservation based on objective data collected and analyzed according to shared methods and protocols. This is what has been done on the framework of the LIFE WOLFALPS Project. In particular we evaluated the Wolf Population Status in the Alps. Updated data on wolf presence and on the consistency of the population are of paramount importance for effective management and communication. Hence, in 2014 one of the first steps was to organize a systematic monitoring to collect objective data on the status of the Italian and Slovenian wolf population in the Alps. The non-invasive methodology applied was based on snow-tracking, genetic analysis of biological samples, photo-trapping and wolf-howling. The overall objective was to document the presence of packs, pairs and solitary individuals with a stable territory. All this allowed to have large-scale comparable data and to implement the first standardized monitoring of the wolf population in the Italian Alps for year 2014/2015. The same monitoring was repeated for years 2015/2016 and 2017-2018. The staff involved was prepared through ad hoc training courses and the Wolf Alpine Network was constituted, collecting data and samples. It is composed of about 512 operators belonging to 43 Institutions distributed throughout the Alpine region (Regional and National Parks, Carabinieri-Forestale, Regions and Provinces). The Network represents a high quality resource in the long term. The wolf monitoring, coordinated by the Large Carnivores Center of the Maritime Alps Natural Park, also actively involved the stakeholder associations (farmers, hunters, environmentalists), Universities, Regional Health Services (A.S.L.), and the Hunting Districts.

The most important result achieved by this work is the **standardization of the monitoring of the wolf population at the Italian Alpine scale**, homogeneous and coordinated with the other Alpine countries, this should be maintained on the long term, also if conducted at a very minimal level with limited objectives (e.g. just estimating distribution) and it is one of the main goal of the After Life Conservation Plan for the monitoring of the wolf population.

In Slovenia, one of the goals within the wolfalps was to extend the natonal wolf monitoring to the Alps and we did it. After the project it will be continued. Slovenian Ministry of Environment is funding the monitoring. Responsible for implementation are Slovenia Forest Service, Biotechnical Faculty of the University of Ljubljana and Dinaricum Society. It is being implemented on a yearly basis.

Overall goal: the maintenance of the coordination of the monitoring of the wolf population at the Italian Alpine scale, also if realized with minimal objectives if no important funding are available

Measure	Responsible	Funding	Timeframe
Maintenance of the	CGC, Ente Gestione Alpi	Internal budget and	2018-2019
coordination of the wolf	Marittime, Regione	30.000 £	
population monitoring	Piemonte		
Continue baseline	EAM, PNOssola, PNCozie	Internal budget	2018-2021
monitoring activities in the			
framework of the LIFE			
WolfAlps Strategy within			
the Parks, in coordination			
with other Partners (core			
area 1 and 2 and 3)			
Continue baseline	Regione Veneto	Internal budget	2018-2021
monitoring activities in the			

		1	
framework of the LIFE			
WolfAlps Strategy within			
the Regione Veneto, in			
coordination with other			
Regions and CGC			
Continue baseline	Carabinieri Forestale	Own current funds	2018, 2019, 2020,
monitoring activities in the			2021,2022
framework of the LIFE			
WolfAlps Strategy, in			
coordination with other			
Partners over the Italian			
Alps			
Implementation of Wolf	Regione Lombardia	Regional funding to be	2018 and 2019
Alpine Network in		confirmed by the end of	
Lombardia Region		2018 for support in	
		monitoring and genetic	
		analysis	
Meeting to coordinate	EAM in collaboration with	Internal budget	One per year, from 2018 to
monitoring activity of the	Carabinieri Forestali		2020
local (core area 1)			
monitoring network			
Meeting to coordinate	PN Alpi Cozie in	Internal budget	One per year, from 2018 to
monitoring activity of the	collaboration with Città		2020
local (core area 2)	Metropolitana di Torino		
monitoring network			
Meeting to coordinate	PNVG in collaboration with	Internal budget	One per year, from 2018 to
monitoring activity of the	PNOssola		2020
local (core area 3)			
monitoring network			
Collection of information	PN Ossola, PNVG, PNCozie	Internal budget	2018-2020
on damage events	500		
Systematic and	EAM	Internal budget	From winter 2018-2019 to
opportunistic monitoring of			winter 2020-2021
wolf presence in the PN			
Alpi Marittime and			
surroundings	DALAL COLO	Total and the state of	5 2040 2040
Systematic and	PN Alpi Cozie	Internal budget	From winter 2018-2019 to
opportunistic monitoring of			winter 2020-2021
wolf presence in the PN			
Alpi Cozie and surroundings	DNOscolo	Internal hudget	From winter 2019 2010 ±-
Sistematic and	PNOssola	Internal budget	From winter 2018-2019 to
opportunistic monitoring of			winter 2020-2021
wolf presence in the			
PNOssola and surroundings			
(core area 3)	PNVG in collaboration with	Internal hudget /direct	2018-2020
Monitoring of wolf presence in the PNVG and	Carabinieri Forestali	Internal budget (direct	2010-2020
·	Carabillien Forestall	personnel costs) € 3000 (from Direttiva	
surroundings		Biodiversità MATTM)	
		€ 2000	
Collection of information	Regione Lombardia, with	Regional funding to be	2018/2020
on damage events	the collaboration of the	confirmed by the end of	2010/2020
on damage events	regional Wolf alpine	2018 transferred to	
	network	Regional Wolf Alpine	
	HIGHWOIK	Network (Provinces) for	
		monitoring and	
	1	Inonitoring and	

After LIFE Conservation Plan

samples in Slovenian Alps continue with the wolf winter monitoring according to the protocol developed in project WolfAlps. With the assistance of UL, TNP will also provide the park rangers with relevant information concerning rangers are usually organized in early spring (April-May).			management of wolf	
presence, collection of samples in Slovenian Alps internal budget. TNP will continue with the wolf winter monitoring according to the protocol developed in project WolfAlps. With the assistance of UL, TNP will also provide the park rangers with relevant information concerning			damages	
internal trainings, if	presence, collection of	TNP, UL	Adjusted program of work - internal budget. TNP will continue with the wolf winter monitoring according to the protocol developed in project WolfAlps. With the assistance of UL, TNP will also provide the park rangers with relevant information concerning monitoring through regular internal trainings, if	Internal workshops for park rangers are usually organized in early spring

3 | PREVENTION

Mountain livestock farming is the economic activity on which wolf presence causes the greatest negative impact. The main damage occurs in areas of recent wolf recolonization where over time livestock management has evolved in the absence of large predators and does not include any prevention measures or defense strategies from wolf attacks. The **economic loss and the psychological and social hardship** experienced by farmers leads to local conflicts, resulting in one of the biggest threats to wolf conservation in the Alps. An extensive survey was carried out during the initial phase of the project to quantify wolf depredation on livestock and understand vulnerability of alpine pastures in Italian alpine areas to **effectively implement preventive methods**. Thanks to this survey, it was possible to identify and plan subsequent activities aimed at preventing attacks in areas of major wolf conflict, adapting them to local needs.

In the Western Alps, where the wolf has been present with stable packs for more than twenty years, the protection systems were already in widespread use by sheep and goat farmers, whereas they were less used by cattle breeders. In these areas, we developed **new specific protection measures for cattle**. In particular, permanent electrified three-wire fences have been built, associated where possible with other protection systems such as livestock guarding dogs, fladries and acoustic devices. **The experience** gained and now consolidated in twenty years of prevention systems use in the Western Alps **has been transferred** to the other Alpine areas. Not only through the installation of electric fences and the assignment of livestock guarding dogs, but also thanks to several meetings where breeders residing in recently recolonized areas could exchange experiences and information with those from areas of stable wolf presence.

In the Central and Eastern Alps in particular, efforts were concentrated in areas where new packs had recently settled in, both in terms of **technical and informative support** for breeders, and in terms of providing damage prevention systems adequate to the various local characteristics; it was thus possible to provide a quick response to the needs of farmers who have suffered attacks. In both Western and Central-Eastern Alps, selected livestock guarding dogs have also been provided to selected farmers. A total of 25 **socialized LGDs** were given to livestock farmers (sheep-goats or cattle). High quality animal food company Almo Nature supported the project's dogs with a free supply of about 24,000 kg of high quality dog food. At the end of the project, a cognitive survey was conducted through specific questionnaires aimed at acquiring the opinions and the level of satisfaction of the farmers on the prevention systems received.

Overall goal: decrease the impact of wolf on livestock husbandry by implementing traditional preventive methods for goat and sheep flocks and using the information developed in the LIFE WolfAlps Project for transferring the new cattle measures both in recently recolonized and in stable areas.

Measure	Responsible	Funding	Timeframe
Provide resources for	PNVG	Internal budget	2018-2020 If necessary
implementation of the		5.000€	within the park area
damage prevention			
measures			
Ensure technical support	PNVG	Internal budget	2018, 2019, 2020
informing farmers on			
which and how to use			
prevention systems			
Provide resources for	Regione Lombardia	Regional funding to be	2018/2020
implementation of the		confirmed by the end of	
damage prevention		2018 transferred to ERSAF	

measures		to guarantee the continuation of support to	
		farmers in prevention methods	
Ensure technical support informing farmers on which and how to use prevention systems	Regione Lombardia	Internal personnel Regional funding to be confirmed by the end of 2018 transferred to ERSAF to guarantee the continuation of support to farmers in prevention methods; LIFE GESTIRE2020 specific information action on LC (action E14), specifically through the support of, Progetto Pasturs (volunteers will help farmers on the field in the implementation of damage prevention methods)* LIFE GESTIRE2020 other information actions on LC (action E14) LIFE GESTIRE2020, through the support of technical facilitators (action A1, C1) and promotion of specific RDF measures	2018/2023 *for summer 2018 only
Ensure correct use of the implemented damage prevention measures given by the project (fences and LGDs)	Regione Lombardia	Regional funding to be confirmed by the end of 2018 transferred to ERSAF to guarantee the continuation of support to farmers in prevention methods LIFE GESTIRE2020 specific information action on LC (action E14), specifically through the support of, Progetto Pasturs (volunteers will help farmers on the field in the implementation of damage prevention methods)*	2018/2023 *for summer 2018 only
Ensure technical support for managing and for solving problem with LGDs	Regione Lombardia	Regional funding to be confirmed by the end of 2018 transferred to ERSAF to guarantee the continuation of support to farmers in prevention methods LIFE GESTIRE2020 specific information action on LC (action E14), specifically through the support of, Progetto Pasturs	2018/2023 *for summer 2018 only

Introduce measures within the agri-environment measures (P.S.R.)	Regione Lombardia, DG Agricolture	(volunteers will help farmers on the field in the implementation of damage prevention methods)* A notification to the environmental authority who monitors the notification of changes to the RDF measures has been launched on 7 th May 2018. The funds are not granted yet	If the procedure goes on successfully, funds will be available in 2019 for a new measure for prevention methods (the actual RDF is valid until 2020)
Organize educational meetings targeting farmers on damage prevention	Regione Lombardia	Internal personnel Regional funding to be confirmed by the end of 2018 transferred to ERSAF to guarantee the continuation of support to farmers in prevention methods; LIFE GESTIRE2020 specific information action on LC (action E14), specifically through the support of, Progetto Pasturs (volunteers will help farmers on the field in the implementation of damage prevention methods)* LIFE GESTIRE2020 other information actions on LC (action E14) LIFE GESTIRE2020, through the support of technical facilitators (action A1, C1) and promotion of specific RDF measures	2018/2023 *for summer 2018 only
Promotion and installation of preventive measures over the entire Regione Veneto, acquisition of electric fences and other preventive tools	Regione Veneto	Regional fundings and Rural Development Funds (RDF) within measure 4.4.3., by DGR/CR n. 31 of 17 April (about 1.000.000 \$)	2018-2019

Promote the use of	Regione Lombardia	Internal personnel	2018/2023
	Regione Lombardia	Regional funding to be	2018/2023
preventive systems		confirmed by the end of	
		2018 transferred to ERSAF	
		to guarantee the	
		continuation of support to	
		farmers in prevention	
		methods;	
		LIFE GESTIRE2020, through	
		the support of technical	
		facilitators (action A1, C1)	
		and promotion of specific	
		RDF measures	
		LIFE GESTIRE2020 specific	
		information action on LC	
		(action E14)	
Ensure technical support	PN Alpi Cozie	Internal budget	From summer 2018 until
informing farmers on which	,	ea. adaget	summer 2020
and how to use prevention			54
systems (core area 2)			
Ensure correct use of the	PN Alpi Cozie	Internal budget	From summer 2018 until
implemented damage	'		summer 2020
prevention measures given			
by the project (fences and			
LGDs in core area 2)			
Organize educational	PN Alpi Cozie with Public	Internal budget	From autumn 2018 to
meetings targeting farmers	veterinary office (ASLTO3)		winter2020, at least one
on damage prevention			workshops
(core area2)			
Promote the use of	PN Alpi Cozie	Internal budget	2018-2020
preventive systems			
TNP - Ensure	TNP	Internal budget. According	Annually, according to the
comprehensive		to the TNP Act and the TNP	program of work.
implementation of		Management Plan (2016-	
preventative measures, if		2025), specific additional	
needed		funds are available for	
		implementing several	
		conservation measures	
		including the purchase of	
		preventative tools, if	
		needed.	

4 | ANTIPOACHING

Poisoned baits and poaching can cause **large wolf and wildlife mortality**, and be dangerous to people and pets. However, poisoning is difficult to counteract because it is silent and hard to detect. The Project has been successful in intensifying the level of detection and implemented a multidisciplinary proactive strategy enabling an efficient control of illegal wildlife crimes over the entire Italian Alps.

Five anti-poaching teams with operators of the Carabinieri-Forestale, Parks, and Provincial Police personnel, have been formed and equipped for a total of **88 agents involved**. The teams operated over the Italian Alps in a regular manner, with a total of about **480 patrolling sessions**, in many cases camera traps were used. To increase poisoning detection, 2 LIFE WOLFALPS anti-poisoning dog teams have been formed, in the Western and Eastern Alps. A total of 8 dogs have been constantly trained and prepared to find poisoned baits, to sweep contaminated areas, and to support investigations. A total of about **95 preventive interventions** and **110 urgent interventions** after the discovery of a dead wolf or other poisoned animals have been conducted. About **80 poisoned animals and baits** have been retrieved. A risky but indispensable job, and unfortunately in one case, one anti-poisoning dog, Luna, died at work. A final key step has been to increase knowledge on the topic **through awareness raising sessions**, directed at locals, general public, hunters and farmers. This incremented knowledge on the harmful effects of poisoning on ecosystems will put poachers in a tight corner: illegality can be counteracted only **with help from everyone**, and the LIFE WOLFALPS project made **an important step** in this direction. The public too can help in the fight against poisons, reporting every case to the competent bodies.

Overall goal: decrease the level of poisoning through an efficient detection of illegal activities by using the formed Anti-poisoning dog teams. This will significantly contribute to the conservation of wildlife in general and also of many endangered species, besides the wolf, particularly rare raptors and vultures.

Measure	Responsible	Funding	Timeframe
Coordination of the	EAM - CGC	Internal budget and	2018-2019
Anti-poaching Dog Team		10.000£	
of the Western Alps,			
composed by different			
bodies: EAM, Carabinieri			
Forestale, PNCozie, Città			
Metropolitana Torino by			
CGC			
Continue activity of anti-	Carabinieri Forestale	Own current funds	2018, 2019, 2020,
poisoning dog team to			2021,2022
contrast illegal practices			
Continue activity of anti-	Regione Veneto	Own current funds	2018, 2019, 2020,
poisoning dog team of			2021,2022
the Eastern Alps to			
contrast illegal practices			
Full operationally of	Carabinieri Forestale	Own current funds	2018, 2019, 2020,
anti-poaching teams			2021,2022
Extra-ordinary	Carabinieri Forestale	Own current funds	2018, 2019, 2020,

After LIFE Conservation Plan

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campaigns in Italy,			2021,2022
organized in sessions of			
5 days with 10-15			
operators, at least 2			
times a year			
Inform general public	Carabinieri Forestale	Own current funds	2018, 2019, 2020,
about the importance of			2021,2022
denounce poisoning			
events			
Continue activity of anti-	PN Alpi Cozie with CC FOR	Internal budget	Until the dog will be able
poisoning dog team to			to work
contrast illegal practices			
Inform general public	PN Alpi Cozie	Internal budget	2018-2023
about the importance of			
denounce poisoning			
events			
Enhance cooperation	PN Alpi Cozie with CC FOR	Internal budget	2018-2023
within Institution		_	
(Istituto Zooprofilattico			
di Torino)			
Ensure support to anti-	Regione Lombardia, PNVG,	Internal personnel,	2018-2023
poison activities	PNOssola, PNCozie, EAM	collaboration with CF and	
		provinces	
		provinces	
Inform general public	Regione Lombardia	Internal personnel,	2018/2023
about the importance of	Regione zombarata	collaboration with CF and	2010/2023
denounce poisoning		provinces	
events		LIFE GESTIRE2020 other	
CVCIICS		information actions on LC	
		(action E14)	
		(action L14)	
Enhance cooperation	Regione Lombardia	Internal personnel,	2018-2023
within Institution	Negione combandia	collaboration with CFF and	2010 2023
within institution		provinces LIFE	
		GESTIRE2020 action A16 on	
		managing of wolf in the	
		Appennines	
		Appeninies	

5 | MANAGING INJURED WOLVES AND HYBRIDS

In Italy, hybridization between wolves and dogs is a source of concern and the scientific community considers it as a severe threat to wolf conservation. During the LIFE WOLFALPS project this issue has been **highly monitored**, and no hybrids have been detected in the Alps, however the issue has been addressed in the **general Guidelines for the management of the species**.

At the same time, it is important to manage accidentally injured wolves correctly, they can display undesired behavior, occasionally approaching villages and people. These animals are removed and cured, also for maintaining the correct perception of the wolf by the general public and to avoid accidents. A general protocol of intervention has been agreed on, and 6 accidentally injured wolves in Piedmont have been immediately monitored and/or removed and cured. In such cases correct species perceptions have been maintained through correct communication of the events. An official captive wolf facility, the "Men and Wolves" Centre, is hosting those wolves and 5 communication campaigns have been developed starting from the true stories of the injured wolves to further increase knowledge on the species. These campaigns had huge publicity: each appeared not only on the web and social channels of the Project but also in national newspaper with a circulation of over 200,000 copies. Every year the experience of over 20,000 visitors to the "Men and Wolves" Centre have confirmed the importance of the structure as an element of dissemination and awareness.

Overall goal: to prevent, detect and control wolf-dog hybridization events in order to prevent loss of wolf genetic identity and widespread contamination in the wolf alpine population; to detect and control injured wolves in order to promptly intervene for maintaining the correct perception of the wolf by the general public and to avoid accident with animals that can display a not correct behavior.

Measure	Responsible	Funding	Timeframe
Monitoring wolf presence	PN Ossola and EAM	Internal budget	2018-2020
in order to intervene in			
case of suspected hybrids			
Enable the moving of a	EAM, Centro Faunistico	Internal Budget	2018,-2019, 2020
injured wolf or hybrid in	Uomini e Lupi		
EAM captive facility center			
Ordinary management of	EAM, Centro Faunistico	Internal Budget and	2018,-2019, 2020
captive wolves/hybrids in	Uomini e Lupi	20.000 £ per year	
the Centro Faunistico			
Uomini e Lupi			
Enable the intervention of a	PN Alpi Cozie in	Internal budget with	2018-2020
team expert in wolf capture	collaboration with other	external contract with a	
and moving the injured	competent public bodies	veterinary or public	
animal in the facility center		veterinary	
(core area 2)			

6 | WOLF ECO-TOURISM

The **improvement of the socio-economic conditions of local communities** through eco-tourism initiatives which use a positive image of the wolf is important to increase the level of acceptance and tolerance towards the predator, becoming a concrete tool to support conservation.

Among the various initiatives implemented by the LIFE WOLFALPS project, one of the most ambitious was to use cheese produced by breeders impacted by the wolf as a communication vehicle to support conservation. With the "Terre di Lupi" ("Land of Wolves") brand, the LIFE WOLFALPS project has promoted and accompanied the birth of the first wolf friendly pilot product of the Italian Alps. The pioneers of the initiative are six producers with local distribution (5 in the province of Cuneo and 1 in the Province of Trento), who actively participated in the genesis of the brand, coordinated with the bear friendly line promoted by the LIFE Dinalp Bear Project. They actively participated to the development of a brand message that succeeds in expressing all the pride of creating quality products in conditions made more difficult by the presence of a predator.

In summertime, **39 hiking days** were organized for walkers to experience the complex and fascinating issue represented by the "mountains with wolves". WOLFALPS organized both one day trip to Alpine pastures, to meet the shepherds who put in place effective measures to prevent damages. The goal was not to see wolves, but to perceive its presence through its signs, discovering at the same time the biology of the wolf and a correct culture of respect for wildlife. Treks have become self-sustaining eco-tourism products which will continue in the after LIFE period, thanks to the Alpine huts' managers and to the Park nature Guides trained during the project.

Winter is the ideal season to follow animal tracks on snow without disturbing them: a precious opportunity to discover in an engaging way the biology and ecology of the wolf and to use its charm as a catalyst to talk about other species important for the Alpine ecosystem. In many cases, snow-tracking hikes have inaugurated a **new eco-hiking tradition** with good perspectives, which local operators will maintain in the coming years with a double positive effect: the economic fallout and the enrichment of the local eco-tourism offer, without disturbing the species.

Overall goal: to increase the level of acceptance and tolerance both of shepherds and general public towards the predator using eco-tourism events and products.

Measure	Responsible	Funding	Timeframe
Support the production of	EAM - Centro Grandi	Internal budget: temporary	1/6/2018 – 31/5/2019
cheese "Land of wolves"	Carnivori	part-time personnel will be	
		charged to follow the	
		development of the brand	
		for one year to ensure the	
		launch of the initiative.	
Support hiking initiative to	EAM, Regione Lombardia	EAM: Trained Park Guides	2018, 2019, 2020
discover the "Mountains		and Huts' managers will	
with wolves"		propose the eco-tourism	
		events on their own. The	
		Park will support and	
		promote these events on	
		its own as part of the	
		personnel ordinary activity.	
		RL: Internal personnel:	
		Support and promotion of	
		wolf eco-tourism events	

After LIFE Conservation Plan

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		though ERSAF, Regional	
		Parks and local associations	
		LIFE GESTIRE2020	
		information actions on LC	
		(action E14)	
Support snow-tracking	EAM, Regione Lombardia	No budget. Trained Park	2018, 2019, 2020
hiking initiatives		Guides and local operators	
		will propose the eco-	
		tourism events on their	
		own. The Park will support	
		and promote these events	
		on its as part of the	
		personnel ordinary activity.	
		RL: LIFE GESTIRE2020	
		information actions on LC	
		(action E14)	
Support hiking initiative to	PN Alpi Cozie	Internal budget. Trained	Continuously
discover the "Mountains		Park Guides and Huts'	
with wolves"		managers will propose the	
		eco-tourism events on their	
		own. The Park will support	
		and promote these events	
		on its as part of the	
		personnel ordinary activity.	
Support snow-tracking	UL, TNP	Internal budget (UL),	Yearly
hiking initiatives in Slovenia		adjusted annual programe	
_		of work - internal budget	
		(TNP). Trained field	
		personnel will provide	
		support to 1-day hiking	
		snow tracking events.	

7 | MANAGEMENT MEASURES

In the framework of the LIFE WOLFALPS Project, Species-Specific Conservation Measures have been developed for the Sites directly involved as beneficiaries of the Project, and subsequently extended to the entire Natura 2000 sites of the Piedmont Region. They have been based on the critical conservation needs for the species, such as the protection of reproductive sites from habitat loss at the local scale, in coexistence with tourism development and human activities. To be effective on this complex evaluation, we developed an habitat suitability model of reproductive site (MIASIR). This is an important innovative example of adaptive management, where the Natural Protected Areas Department of Piedmont Region used robust science for management decisions. On the basis of the information provided in the Species-Specific Conservation Measures, Piedmont Region has integrated the Site-Specific Conservation Measures of the Sites of Community importance (SCIs), necessary for the process of designation of the Special Areas of Conservations (SACs), required in accordance with the Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora. This has a very important impact for the conservation of the species at the regional level. Site-Specific Conservation Measures are structured in obligations, prohibitions and good practices adapted to different ecological and socio-economic characteristics of the sites, identified and selected to maintain a favourable conservation status for species or habitats of Community interest. Important management discussions have been conducted not only at the regional level, but also at the

Important management discussions have been conducted not only at the regional level, but also at the Italian alpine level. The LIFE WOLFALPS Project, with the lead of the Piedmont Region, organized 4 Alpine workshops relevant to the discussion of the Wolf National Action Plan. During these workshops, the Alpine Regions board (Tavolo delle Regioni Alpine) has been constituted and worked on the definitions of the common "Guidelines for the management of the wolf alpine population", and it will continue to work in our country in the future. Its legacy will continue to improve the fragmented management present in Italy.

Overall goal: to protect the wolf and its reproductive sites from habitat loss by the official adoption of the Species-Specific Conservation Measures in Piemonte Region, in coexistence with tourism development and human activities. Continue the Italian Alpine Regions Board.

Table Abbreviations:

RP: Regione Piemonte

RP-A1601A: RP – Direzione Ambiente Governo e Tutela del territorio – Sett. BIODIVERSITÀ E AREE NATURALI

RP-A1701A: RP – Direzione Agricoltura – Sett. PRODUZIONI AGRARIE E ZOOTECNICHE

CGC: Centro di Referenza "Grandi Carnivori" - RP – EAM

CBV: Centro per la Biodiversità Vegetale "Emile Burnat", RP – EAM

Measure	Responsible	Funding	Timeframe
Annual meetings of the	Regione Lombardia, RP-	Internal personnel, internal	2018, 2019, 2020, 2021,
Italian Alpine Regions	A1601A – other Italian	budget, EU-funds	2022. 1 meeting for each
Board	Alpine Regions - CGC		year
Meetings to define a	RP-A1601A – SACs	internal staff, internal	2018, 2019, 2020, 2021,
common approach for the	managing bodies – CGC –	budget	2022, 1 meeting every two
application of Site and	CBV - EAM – PN Alpi Cozie		years
Specie specific	– PN Ossola		
Conservations Measures in			
Piemonte Region			
Implementation of Site-	RP-A1601A – SACs	FEASR - PSR 2014-2020 -	2018, 2019, 2020, 2021,

After LIFE Conservation Plan

specific Conservation Measures, review and updating SACs and Protected Areas	managing bodies – CBV – CGC – EAM – PN Alpi Cozie – PN Ossola	internal staff, internal budget	2022
management plans Apply the Specie-specific Conservation Measures: Spatial Model and MIASIR implementation	RP-A1601A - RP-A1701A - SACs managing bodies - CGC	FEASR - PSR 2014-2020 – internal staff, internal budget	2018, 2019, 2020, 2021, 2022
Supporting breeders for implementation of prevention/protection mandatory strategies	RP-A1601A - RP-A1701A - SACs managing bodies - CGC	FEASR - PSR 2014-2020 Mis.a 4, Op.4.4.2 –internal staff, internal budget	2018, 2019, 2020, 2021, 2022 – first step before the end of 2018

8 | COMMUNICATION

Successful conservation of large carnivores requires favourable ecological conditions as well as a tolerant socio-political landscape. Wolf management is a highly controversial issue, because of many associated conflicts involving many different stakeholders and because of the high (positive or negative) symbolic value of the species. Understanding the social and cultural dimension is thus of paramount importance for the effectiveness of the dissemination actions. That's why WOLFALPS's Communication strategy was solidly grounded in the scientific analysis of Human Dimension (Action 8). On this sound basis WOLFALPS diversified its languages and communication tools to address to the identified key stakeholders and categories:

- **Hunters:** the key actions were ad hoc meetings with hunters as speakers, direct involvement of trained hunters of the Alpine Hunting Districts in the wolf population monitoring to increase correct information about prey-predator dynamics and positive wolf perception. Hunters' Associations representatives were involved in **dialogue platforms**. Tools: brochure and posters written by hunters (and researchers) for hunters.
- **Farmers:** the key actions were ad hoc meetings with technicians (mostly veterinaries) as speakers, direct exchange of knowledge and best practices about preventive methods from farmer to farmer from Western to Eastern Alps. Farmers' Associations representatives were involved in **dialogue platforms**. Tools: brochure on preventive methods.
- Schools: coordinated and shared new educational activities were the key actions: drawing contests, workshops and visits to the Parks involved the young future decision makers of tomorrow. On the other side coordinated training activities involved teachers and environmental education operators as to create a permanent trained "army" of wolf ambassadors across the Alps. Tools: children book, board game, posters.
- Media: the main threats were the lack of knowledge and the looking for the false scoop of (too) many journalists. That's why key actions were ad hoc courses for journalists and the direct production of an objective and scientific communication about wolf. The first Alpine Wolf Press Office was created to daily collect and archive the press review and to write press releases. A special Crisis Unit was formed to quickly react to emergencies seven days a week and h24. Tools: press releases.
- **General Public:** "anything goes" a wide range of activities have been realized ranging from hundreds of information events to photo contests, travelling exhibition, street art exhibition, public conferences, theatrical play. Tools: brochures, posters, flyers, videos.
- Local public (inhabitants of wolf areas): in newly recolonized area much effort was focused in contrasting
 fear for personal safety, in areas where wolves are already have been present for years WOLFALPS
 focused on the message that "wolf presence and wolf predations on wild animals are absolutely normal".
 Updated data about wolf presence diffusion was of utmost importance everywhere. Tools: posters about
 local packs, brochures, posters, flyers.

Overall goal: Increased awareness about wolf ecology, wolf population status and management in the Alps and positive attitude towards long term wolf conservation through wolf-human coexistence.

Measure	Responsible	Funding	Timeframe
Quick reaction to biased	EAM - Centro Grandi	Internal budget	2018-2019
reporting in the media by sharing objective	Carnivori EAM – MUSE		
information	Regione Lombardia		

	(collaboration)		
Divulgation of project final results	all partners	Internal budget. Partner's own communication channels + Project web and social channels Internal budget. LIFE GESTIRE2020 information actions on LC (action E14) Regional communication channels + Project web and social channels	2018, 2019
Implementing the project educational activities in the school	Regione Lombardia	Internal budget Support and promotion of educational activities on wolf through Regional Parks and Area Parchi	2018-2019-2020
Yearly training for teachers and trainers	Regione Lombardia	Internal budget Support and promotion of educational activities on wolf through Regional Parks and Area Parchi	2018-2019-2020
Implementing the project educational activities with the school in particular related with "Tempo di lupi" exhibition	PNVG	Internal budget 5.000 € (from Direttiva Biodiversità MATTM) 6.000 €	2018 2019-2022
Information events towards general public related to "Tempo di lupi" exhibition and Carneval in Vogogna Information event towards	PNVG PNVG in collaboration with	Internal budget 2.000 € (from Direttiva Biodiversità MATTM) 2.000 € Internal budget	Almost one activity each year 2018 2019-2022 2018-2020
stakeholders (in particular farmers and hunters) Maintain website and Project Social channels	PNOssola EAM - Centro Grandi Carnivori	Internal budget. and 7.000 f. One update/week.	2018, 2019
		Implementation of new contents by Park's personnel, contents provided and supervised from CGC's personnel.	
Keep in touch with media, be a point of reference about wolf issues in the Alps	EAM - Centro Grandi Carnivori	EAM – CGC will keep in contact with interested journalists at national and local scale to keep sending press releases about most important "wolf Alpine updates"	2018-2023
Implementation of the project educational activities in the school and dissemination of the educational tools	EAM - Centro faunistico "Uomini e Lupi"	Internal budget. EAM and the "Men and Wolves" captive facility will include new educational activities and the educational kit/books created by the project in their standard	2018-2023

	T	Landa and the state of the stat	1
		educational programs.	
		Posters and other	
		dissemination tools will be	
		distributed to visiting	
		schools.	
Formal and informal	EAM - Centro Grandi	EAM will include lessons	2018-2023
trainings for teachers and	Carnivori	about wolves and teas with	
trainers		teachers about wolves	
		within the training courses	
		for teachers, educational	
		officers and Park guides	
		organized by the Park. The	
		lessons will be held by	
		Park's or CGC's personnel.	
"Vita da Lupi" and "Uomini,	MUSE	The two wolf educational	2018 - 2023
orsi, lupi" in the MUSE		activities developed in the	
Institutional educational		framework of action E4,	
portfolio.		"Vita da Lupi" and "Uomini,	
por cromer		orsi, lupi", will be included	
		in the official MUSE	
		educational portfolio: a	
		widespread tool edited	
		yearly in September, that	
		teachers use to book the	
		activities for their classes	
		when they plan their visit	
// · · · · · · · · · · · · · · · · · ·		to MUSE.	2010 2000
"Lupinella" available at the	MUSE	MUSE shop will maintain	2018 - 2023
MUSE shop		the illustrated book	
		"Lupinella – La vita di una	
		lupa nei boschi delle Alpi"	
		(Editoriale Scienza, 2018)	
		on stock in its "after life"	
		edition.	
"Rendez-vous 2200"	MUSE	MUSE will coordinate the	2018 - 2023
available for third parties		contacts between the	
		theatre company "Trento	
		Spettacoli" and interested	
		third parties in order to	
		facilitate the traveling of	
		the play in other venues.	
Continuation of the	Regione Veneto	Internal Budget	2018-2021
meetings of the regional			
Platform instituted during			
the Life Wolfalps project,			
called "Tavolo regionale di			
partecipazione ed			
informazione per la			
gestione del lupo e dei			
grandi carnivori" with the			
farmer association, for the			
implementation of			
preventive measures	DNO-selective Hill 11	Intermedia I	Vandera di Cari
Meetings with stakeholders	PNOssola in collaboration	Internal budget	Yearly meetings form 2018
to spread information	with PNVG		to 2020.
collected with monitoring			

After LIFE Conservation Plan

		T	
Quick reaction to biased	PN Alpi Cozie	Internal budget	Continuously
reporting in the media by			
sharing objective			
information (core area 2)			
Keep in touch with media,	PN Alpi Cozie	Internal budget	2018-2020
be a point of reference			
about wolf issues in the			
core area 2			
Implementation of the	PN Alpi Cozie	Internal budget	2018-2020
project educational			
activities in the school and			
dissemination of the			
educational tools (core area			
2)			
Education workshops with	UL	Internal budget and	2018, 2019, 2020,
school children, scouts,		materials. UL staff will	Opportunistically
Ljubljana ZOO visitors		implement workshops	
		targeting children in	
		schools and at events.	
Incorporation of activities	TNP	Internal budget and	2018, 2019, 2020,
developed through the		materials. TNP will (in	Opportunistically according
project into regular		corporation with UL)	to the annual programs of
educational thematic		organize workshops and	work.
events for interested public		other educational events	
		focusing primarily on	
		schools (primary,	
		secondary), hunters and	
		local communities (if	
		needed) within the	
		protected area and its	
		surroundings (UNESCO	
		MaB Julian Alps).	

ABOUT THE AFTER-LIFE CONSERVATION PLAN

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At the end of their projects, all LIFE Nature beneficiaries are obliged to produce an After-LIFE Conservation Plan. The plan sets out how conservation activities are planned to continue and to develop after the end of the project, and how the longer-term management of the project site(s) will be assured. It should give details regarding what actions will be carried out, when, by whom, and using what sources of finance.

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