

# LIFE PASTORALP



LIFE16 CCA/IT/000060

## Pastures vulnerability and adaptation strategies to climate change impacts in the Alps

Deliverable D.1

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The project is being implemented by the following beneficiaries:

	<b>University of Florence - UNIFI</b>
	<b>Agenzia Regionale Protezione Ambiente - Valle d'Aosta - ARPA VDA</b>
	<b>Centre National de la Recherche Scientifique - CNRS</b>
	<b>Institut Agricole Régional – IAR</b>
	<b>Institut National de Recherche pour l'Agriculture l'alimentation et l'Environnement – INRAE</b>
	<b>Parc National des Ecrins – PNE</b>
	<b>Ente Parco Nazionale Gran Paradiso – PNGP</b>

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## 1 Executive summary

The aim of D1 action is to (i) measure and document the effectiveness of the project actions as compared to the initial situation in terms of objectives and expected results. This encompasses also a quantitative assessment of baseline conditions (ii). This action will (iii) facilitate reporting of the project outcomes and impacts on the climate change problem targeted, include the evaluation of (iv) the data to demonstrate the impact of the proposed method and approach in targeting climate change problems, (v) the data to demonstrate the impact of the proposed adaptation measures in solving/limiting climate change problems, (vi) the main project findings and outcomes including the cost-efficient replicability or transferability of the actions and results, (vii) the measures taken to ensure the actual replication or transfer of successful demonstration actions and (viii) the dissemination of the actions and results. Moreover, in this action we will compute and compile indicator tables (quantitative and qualitative) of the file 'LIFE Project Specific Indicators Call 2016.xlsx' attached to the proposal and Progress and Impact of actions indicators (attached) , that will be submitted to the first Mid-term and Final Reports.

## 2 Introduction

<b>Action</b>	<b>Indicator</b>	<b>Type</b>	<b>Unit</b>	<b>When</b>	<b>Target</b>	<b>Achieved</b>	<b>Comments</b>
A1	N° of stakeholders groups identified in each Study area	Progress indicator	absolute number	A1 completion	> 6	7	Achieved
A1	N° of stakeholders identified in each Study area	Progress indicator	absolute number	A1 completion	> 15	153 in Italy 77 in France	Achieved
A1	N° of communication channels taken into account in the Communication and dissemination plan	Progress indicator	absolute number	A1 completion	>7	3 scientific abstracts 2 regional press 1 public seminar 12 press releases	Achieved
A2	N° of adaptation options for pastures identified and evaluated	Progress indicator	absolute number	A2 completion	> 30	39 (grouped in 6 macro-categories)	Achieved
A2	N° of criteria used for the evaluation of the adaptation options	Progress indicator	absolute number	A2 completion	> 5	9 criteria 31 sub-criteria	Achieved
C1	N° of layers collected	Progress indicator	absolute number	C1 completion	> 20	40	Achieved
C1	N° of bibliographic reference used	Progress indicator	absolute number	C1 completion	> 20	35	Achieved
C1	N° of research studies/previous projects considered	Progress indicator	absolute number	C1 completion	> 5	7	Achieved
C1	N° of climate change models used	Progress indicator	absolute number	C1 completion	> 2	3	Achieved
C1	N° of scenarios and future periods considered	Progress indicator	absolute number	C1 completion	> 2	2 RCPs 2 Time slices	Achieved
C1	N° of climate change maps produced	Impact indicator	absolute number	C1 completion	>2	12 x 12 months x 2 case study areas	Achieved

C2	N° of pastures typologies mapped	Impact indicator	absolute number	C2 completion	> 6	13	Achieved
C3	N° of environmental and socio-economic indicators	Progress indicator	absolute number	C3 completion	> 10	63	Achieved
C4	N° of simulation models calibrated and validated	Progress indicator	absolute number	C4 completion	> 3	3	Achieved
C4	N° of pastures typologies modelled	Progress indicator	absolute number	C4 completion	> 5	6	Achieved (3 pasture macro types based on production and 2 management for each)
C5	N° of impact and vulnerability indicators studied	Impact indicator	absolute number	C5 completion	> 10	36	Achieved
C6	N° of test sites	Impact indicator	absolute number	C6 completion	> 4	21 at PNE 4 at PNGP	Achieved Les Lauzes, Val Haute, L'Aup, La Montagne de Chantelouve, Les Selles, Lanchatra, La Verzilla, La Ponsonniere, Jas Lacroix, Le Tourrond, Tramouillon, Faravelle Grand Cabane, Le Vallon, Charges l'Ubac, Basset, Saut du Laire, Le Vallon, Surette, Vallonpierre, Distroit, Rouanette at PNE  Drès, Noaschetta, Fos-Fond, Goilles-Edzelley-Bardoney PNGP
C6	N° of adaptation strategies identified	Impact indicator	absolute number	C6 completion	> 4	24	Achieved. 7 short-term adapt. strat. 8 long-term adapt. strat. 9 farm/alpage system
C7	N° of tools included into the platform tool	Impact indicator	absolute number	C7 completion	> 5	9	Achieved. 9 tools were included in the platform, in detail: 1) adaptation measures browser; 2) adaptation policies browser; 3) climate webgis; 4) suitability webgis; 5) macrotypes webgis; 6) recommendations browser; 7) impacts browser; 8) monitoring system; 9) cartography.
C7	N° of access to the platform tools after 3 years	Impact indicator	absolute number	after 3 yrs end of project	>100	-	It will be monitored after Project ends

C7	N° of evaluators providing feedback for the optimization of the platform tools	Impact indicator	absolute number	C7 completion	> 50	65	Achieved. A total of 65 people evaluated platform tools throughout an online questionnaire.
C7	N° of people that filled the questionnaires for the evaluation of the demonstration events	Impact indicator	absolute number	C7 completion	> 30	-	Not monitored
C7	Percentage of stakeholders that positively evaluated the PASTORALP platform tools	Impact indicator	percentage	C7 completion	> 90%	93%	Achieved. For about 93% of the stakeholders, the platform was rated 4 or 5 (where 5 is 'excellent')
C7	Percentage of stakeholders from other areas that expressed willingness to replicate the PASTORALP tools to their area as well	Impact indicator	percentage	C7 completion	> 75%	98%	Achieved. For about 98% of the stakeholders, the project is valid for other Alpine regions, and was rated 3, 4 or 5 (where 5 is 'excellent'). Considering only rates 4 and 5, the percentage is 80%.
C8	% of pastoral areas where adaptations strategies are implemented for study area	Impact indicator	percentage	after 3 yrs end of project	70%	20 grazing plan, 9 diagnostic plan.	Achieved. Diagnostic plan (PNE) e Grazing plans.
C8	N° of copies of the final documents on the adaptation strategy distributed in paper and electronic form	Impact indicator	absolute number	C8 completion	>150	Recommendation: 550; Measures: 550; Deliverable light: 180	Achieved
D1	% of the climate change adaptation final target indicators achieved	Progress indicator	percentage	D1 completion	100%	100%	Achieved
D1	% of climate change adaptation intermediate targets achieved on time	Progress indicator	absolute number	D1 completion	> 90%	100%	Achieved
D1	% of problems identified and solved	Progress indicator	percentage	D1 completion	100%	100%	Achieved
D2	N° of socio-economic indicators used	Progress indicator	absolute number	D2 completion	> 5	7	Achieved
E1	N° of visitors of project web site each month	Progress indicator	absolute number	E1 completion	> 100	~600 unique visitors per month	Achieved
E1	N° of update of project web site/per month	Progress indicator	absolute number	E1 completion	>1	~2.5	Achieved
E1	N° of notice boards installed	Progress indicator	absolute number	E1 completion	16	19	Achieved. 11 noticeboard and 8 rollups.

E1	N° of leaflets distributed	Progress indicator	absolute number	E1 completion	1000	6000	Achieved.
E1	N° of people where the newsletters are distributed	Progress indicator	absolute number	E1 completion	>200	633	Achieved.
E1	N° of copies of Layman's report distributed	Progress indicator	absolute number	E1 completion	> 150	900	Achieved
E2	N° of people that will participate in each launching event	Progress indicator	absolute number	E2 completion	> 10	54 at PNE 40 at PNGP	Achieved
E2	N° of people that will participate in each consultation workshops	Progress indicator	absolute number	E2 completion	> 10	18 at PNE 33 at PNGP	Achieved
E2	N° of people that will participate in each validation workshops	Progress indicator	absolute number	E2 completion	> 10	39 at PNGP 44 at PNE	Achieved
E3	N° of people that will participate in each training event	Progress indicator	absolute number	E3 completion	> 10	46 at PNE 115 at PNGO	Achieved
E3	N° of people that will participate to the international conference	Progress indicator	absolute number	E3 completion	> 40	95 (15 <sup>th</sup> March) 110 (16 <sup>th</sup> March) 47 (17 <sup>th</sup> March)	Achieved
E4	N° of technical publications of the project findings in scientific journals	Progress indicator	absolute number	E4 completion	> 2	9	Achieved
E4	N° of participation of press releases related to the project	Progress indicator	absolute number	E4 completion	> 20	19	Almost achieved.
E4	N° of press articles	Progress indicator	absolute number	E4 completion	>5	32	Achieved
E4	N° of announcement to radio stations	Progress indicator	absolute number	E4 completion	> 4	4	Achieved
E4	N° of press conferences	Progress indicator	absolute number	E4 completion	>1	1	Achieved. At PNGP
E5	N° of networking projects	Progress indicator	absolute number	E5 completion	> 4	15	Achieved
F1	N° of Steering Committee meetings for each study area	Progress indicator	absolute number	F1 completion	>4	5	Achieved



F1	N° of members comprising each Steering Committee in each study area	Progress indicator	absolute number	F1 completion	> 10	10 PNGP 12 PNE	Achieved
F1	N° of Technical Committee meetings	Progress indicator	absolute number	F1 completion	> 6	63	Achieved
F1	% of deliverable submitted in time	Progress indicator	percentage	F1 completion	90%	100%	Achieved
F1	% of milestones achieved in time	Progress indicator	percentage	F1 completion	95%	100%	Achieved
F1	% of problems identified and solved	Progress indicator	percentage	F1 completion	100%	100%	Achieved. The main problems encountered and solved so far were: (i) data availability for model calibration; (ii) purchasing of lands; (iii) fusion of INRA and IRSTEA (amendment); (iv) inclusion of CNRS in the partnership; (v) fostering communication and dissemination activities
F1	% of Financial statements of all beneficiaries validated	Progress indicator	percentage	F1 completion	100%	100%	Achieved
F2	N° of actions that will continue after life project	Impact indicator	absolute number	F2 completion	>3	6	Achieved Actions C7, C8, E1, E3, E4, E5

### 3 Annex: KPIs

kpi\_project\_data\_snapshot\_export\_05\_06\_2023.xlsx