# Fundaţia ADEPT Transilvania





# LIFE19 NAT/RO/000602 LIFE TransilvaCooperation

Demonstrating cooperative approach for good management of Natura 2000 grasslands at landscape scale in Transylvania

Budget total 596.275 EUR	EU LIFE Contribution 299,750 EUR	DBU Grant 120.000 EUR	Own contribution 176,525 EUR
Duration 51 Months	Starting date 01.09.2020	Ending date 31.12.2024	

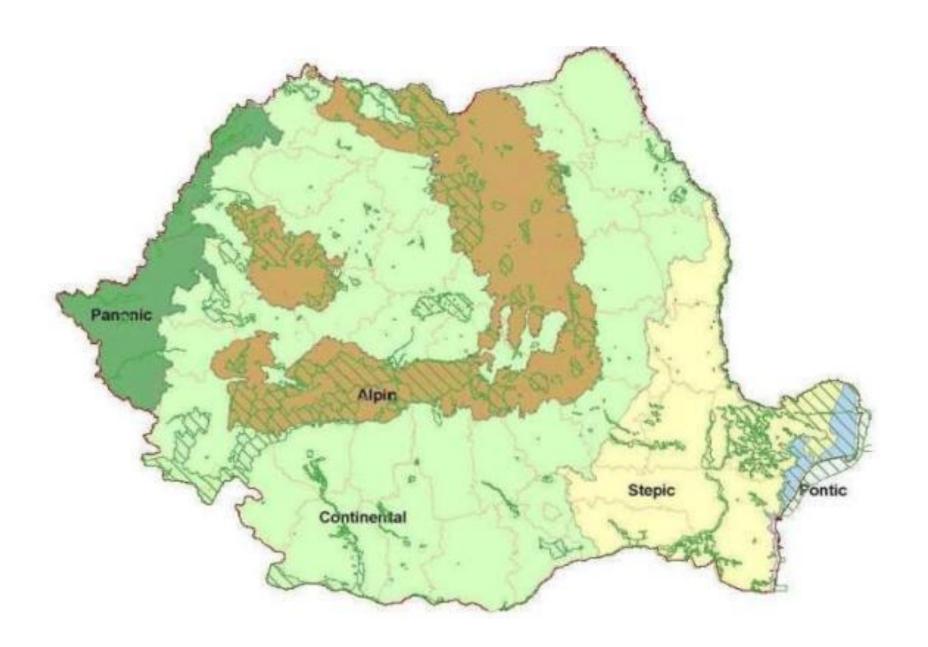


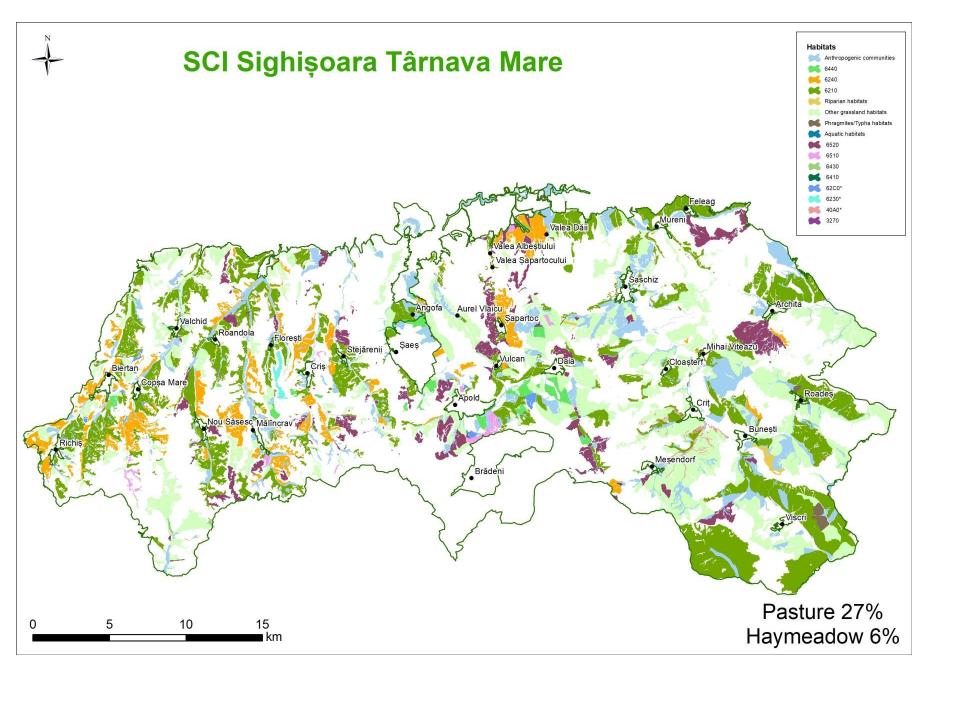


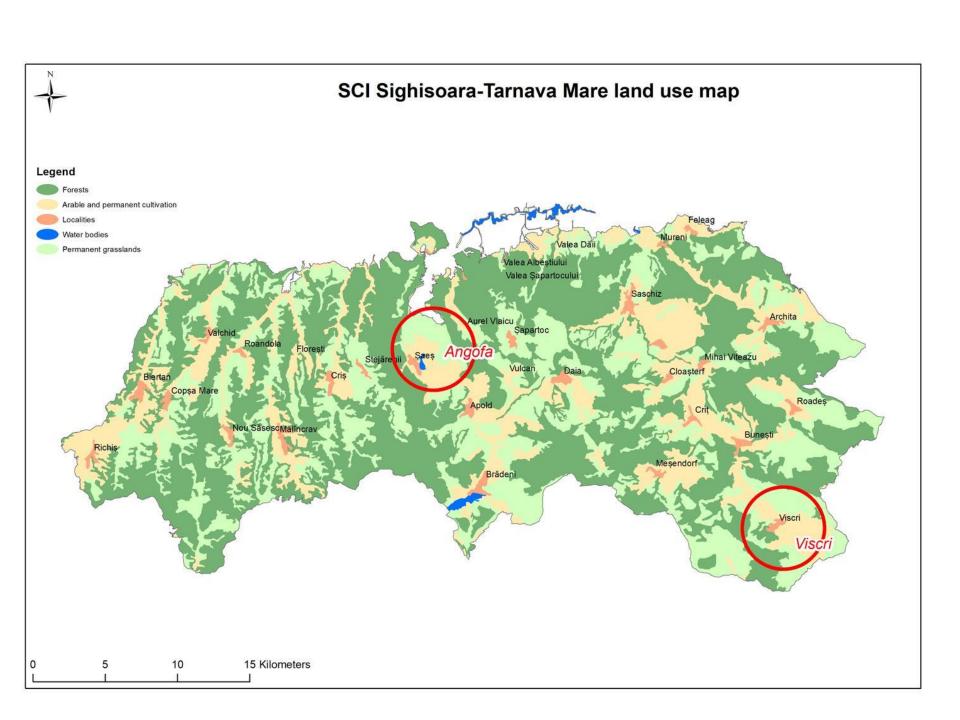


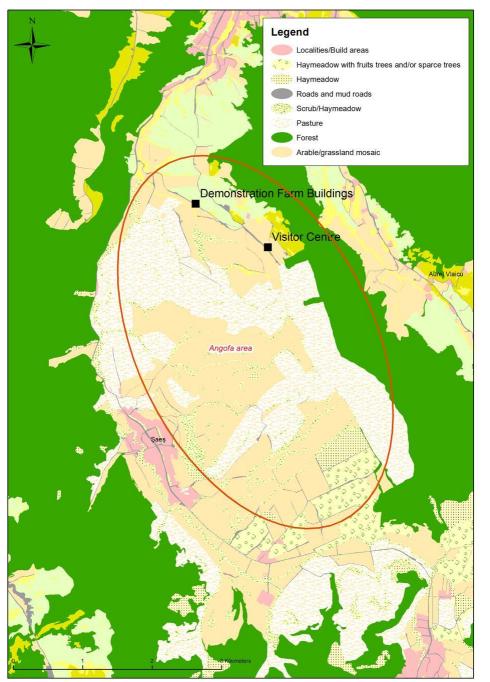


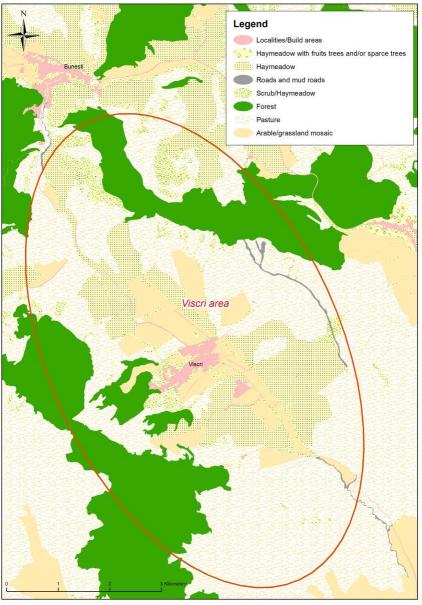












## Approximate habitats distribution Viscri and Angofa

Areas of known Habitats Directive habitats in Angofa and Viscri, drawn from mapping carried out in 2014 under the SOP Environment Management Plan project.

VISCRI		ANGOFA							
Code	Area	Area	Area						
40A0*	78.03	6210	304.45						
6210	817.27	6240*	220.68						
6240*	275.52	62C0*	4.78						
6430	176.63	6430	56.96						
6510	56.10	6440	157.80						
6520	295.00	6510	215.58						
Total 40A0, 6210, 6240, 6510	1,226.91		740.70						

40A0 6210	Sub-continental Peripannonic scrub Semi-natural dry grasslands and scrublands facies on calcareous substrates)
6240*	Sub-Pannonian steppic grasslands;
62C0*	Ponto-sarmatic Steppes
6430	Hydrophilous tall herb fringe communities of plain and of the montane to alpine levels
6440	Alluvial meadows of river valleys of the Cnidion dubii
6510	lowland haymeadows
6520	mountain haymeadows

## TIMETABLE

	Action	2020				2021		2	2022		2023			20	24		202	5
Action number	I Alama at the settion	1 11	mæ	<i>y</i> 1	11	111	ıv	1 1	1 11	עו	1	11   111	IV	1 11	111.1	V I	11 11	ii n
A. Pre	paratory actions, elaboration of management plans and/or of action	plan	S		10 3000000	E ELVITAGE -	roverto: 410	avaira 150	Series accine	ei Pandini I	Q300000 <b>§</b> 100	Security Vectors	Marbot No	Sect Manual	mediana ne	era sociale	19969A-1980A	MOR SERVI
A.1	A.1. Form PIU and hold kick-off meeting			9	П									T				T
A.2	A.2. Grasslands, fauna and flora survey surveys. Socio-economic surveys. Landscape mapping			4														1
A.3	A.3. Design and build innovative demonstration farm		I I			-			1		187							$\top$
A.4	A.4. Develop and implement local management plans										<b>A</b>	4	$\Box \Box$		П	T		+
A.5	A.5. Provide biodiversity farming training			100						100	<b>20</b>			$\top$		$\top$		$\top$
B. Pur	chase/lease of land and/or compensation payments for use rights														<u> </u>			
C. Cor	nservation actions			•														
C.1	C.1. restoration of poor condition meadows and pastures and promoting future good management				- E						1							
D. Mo	nitoring of the impact of the project actions (obligatory)									-								
D.1	D.1. monitoring of biodiversity and socio-economic results			1				E			11		П	Т		П		Т
E. Pul	olic awareness and dissemination of results (obligatory)	-1		•	/					-lt								
E.1	E.1 Dissemination planning and execution						T				Ti			T	$\Box T$	T		T
F. Pro	ject management (obligatory)									1 1.								
F.1	Project management by ADEPT			1 20	1 188	E30	IOM I	100   E	E   1200	T REAL			576	$\top$	ПТ"	1	T	$\top$

## **TIMETABLE**

Action				2020			2021				20	22		2023				2024		20		25		
Action numbe	Name of the action	1	"	Ш	IV	1	11	III	IV	1	11	Ш	IV	_	11	Ш	IV	1	11 1	11 17	V	II	Ш	V
A. Pre	paratory actions, elaboration of management plans and/or of action	n p	lan	S																				
A.1	A.1. Form PIU and hold kick-off meeting																							
A.2	A.2. Grasslands, fauna and flora survey surveys. Socio-economic surveys. Landscape mapping						•	•																
A.3	A.3. Design and build innovative demonstration farm																8 - 6				Т			
A.4	A.4. Develop and implement local management plans																				1			
A.5	A.5. Provide biodiversity farming training																■							
B. Purc	hase/lease of land and/or compensation payments for use rights																							
C. Con	servation actions					0 1 O			2012							c								
C.1	C.1. restoration of poor condition meadows and pastures and promoting future good management						-	-			-	-												
D. Mor	itoring of the impact of the project actions (obligatory)																							
D.1	D.1. monitoring of biodiversity and socio-economic results															G - 5)	2- 3-							
E. Pub	ic awareness and dissemination of results (obligatory)																							
E.1	E.1 Dissemination planning and execution																							
F. Proj	ect management (obligatory)											30 70	***							75	VII			
F.1	Project management by ADEPT																				T			

## **Actions**

- A. Preparatory
- 1. Establish PIU, hold kick-off meeting
- Landscape-scale habitat and species mapping 800ha in Angofa valley, and 800ha Viscri valley inc. fauna and flora, connectivity, mosaic landscape elements, socio-economic
- 3. -design and build a demonstration farm, using existing Angofa farm: livestock buildings, teaching facilities. We already have 200ha and cattle.
- develop local management plans (voluntary no contracts/penalties) with neighbouring farmers: 10-15 farmers in Angofa, 30-40 farmers in Viscri valley. Genuinely co-created, making use of Territorial Cooperation concept
- create and train a Farmers' Association for Angofa, and improve the capacity and effectiveness of existing farmers' association in Viscri
- 5. provide biodiversity farming training include plant identification, use of smartphone apps to help farmers identify/map flower species, monitor soil health annually.

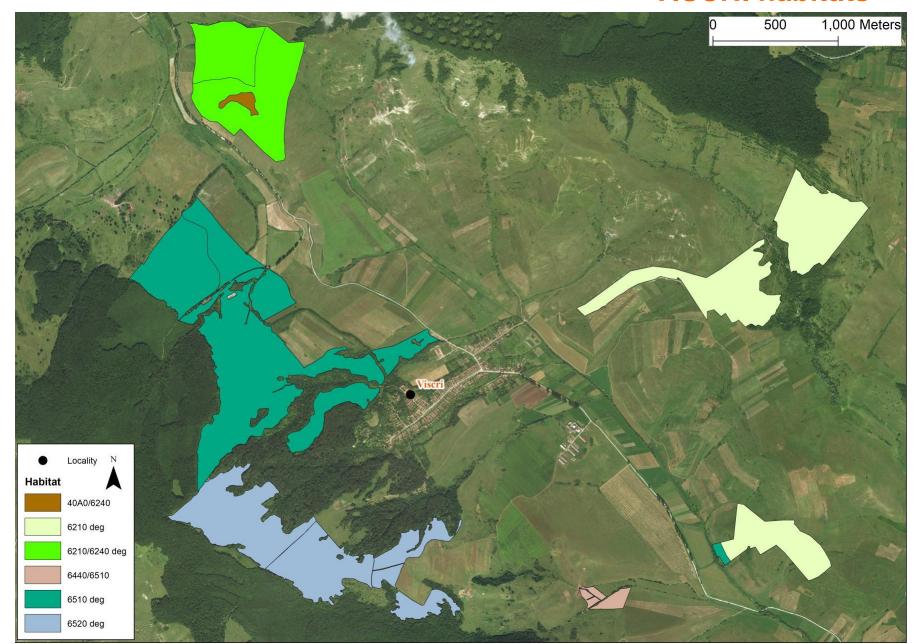
A.2. – Landscape-scale habitat, species and land-use mapping Landscape-scale habitat and species mapping 800ha in Angofa valley, and 800ha Viscri valley inc. fauna and flora, connectivity, mosaic landscape elements, socio-economic



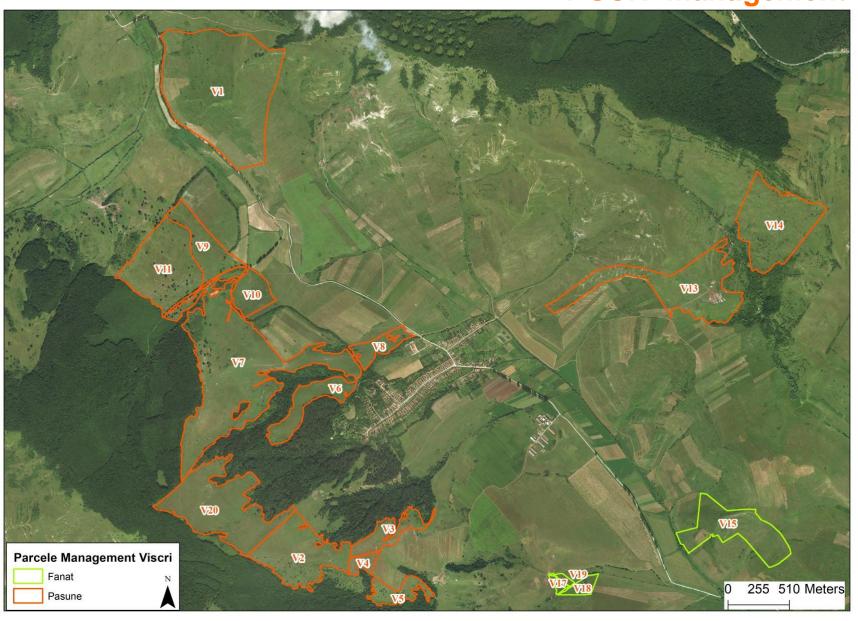
The surveys resulted in maps, including GIS habitat and species maps deliverable 12/2021: maps for habitats, rare species, management, restoration, and landscape elements for each of the two valleys.

- Maps of Angofa and Viscri valleys linking habitats/ conservation status/ land use elaborate
- Copies of maps see next slides

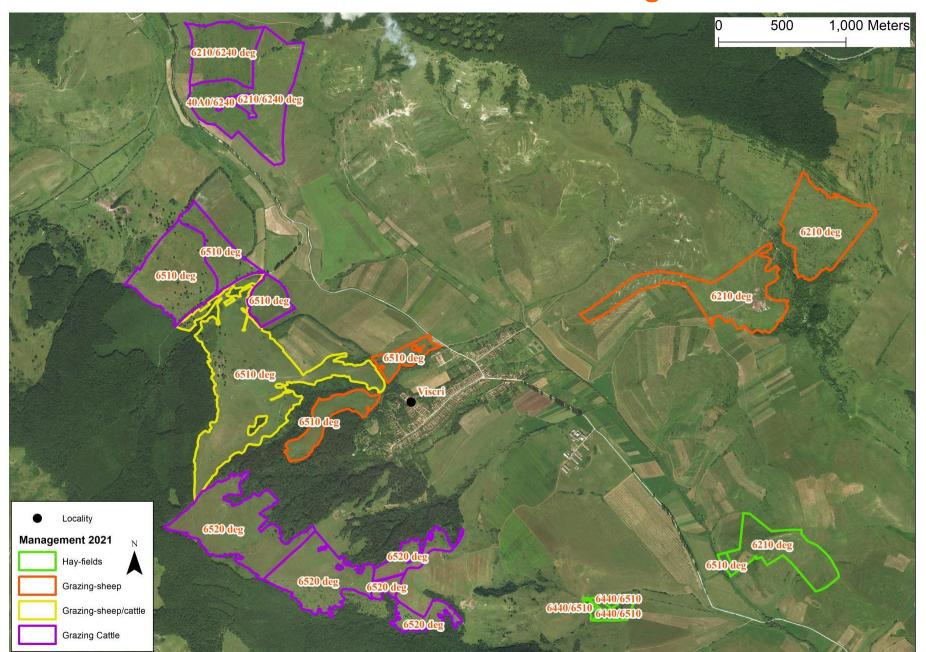
# **VISCRI** habitats



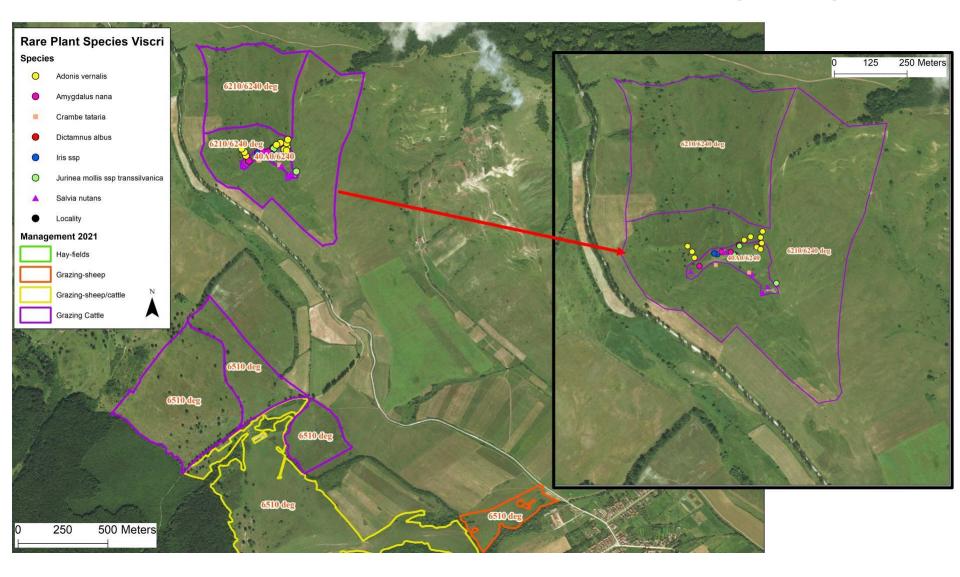
# **VISCRI** management

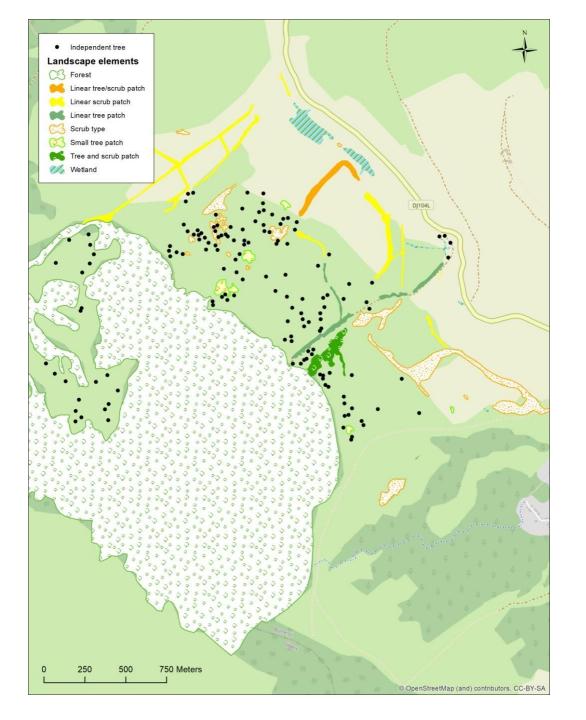


# **VISCRI** habitats management combined



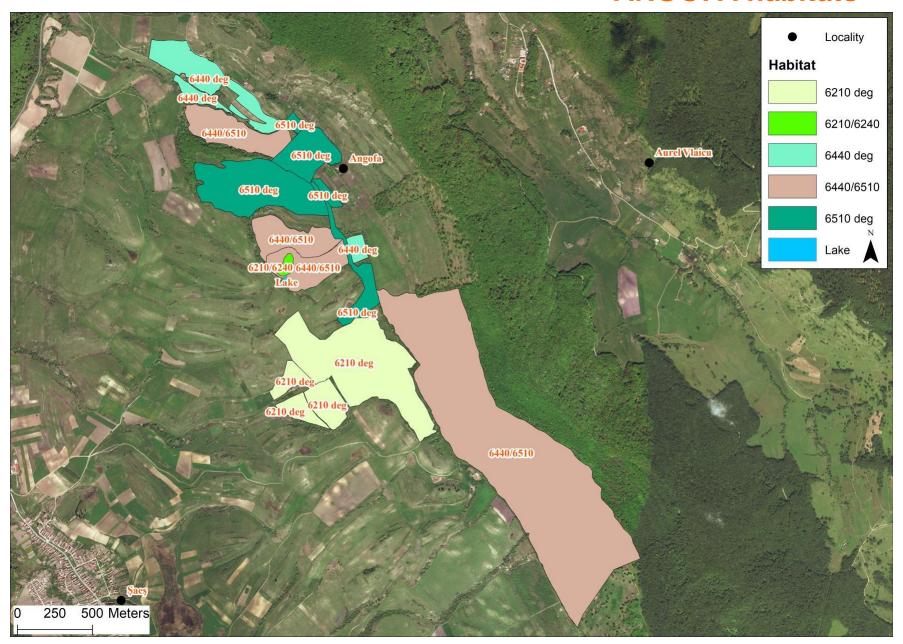
# **VISCRI HD plant species**



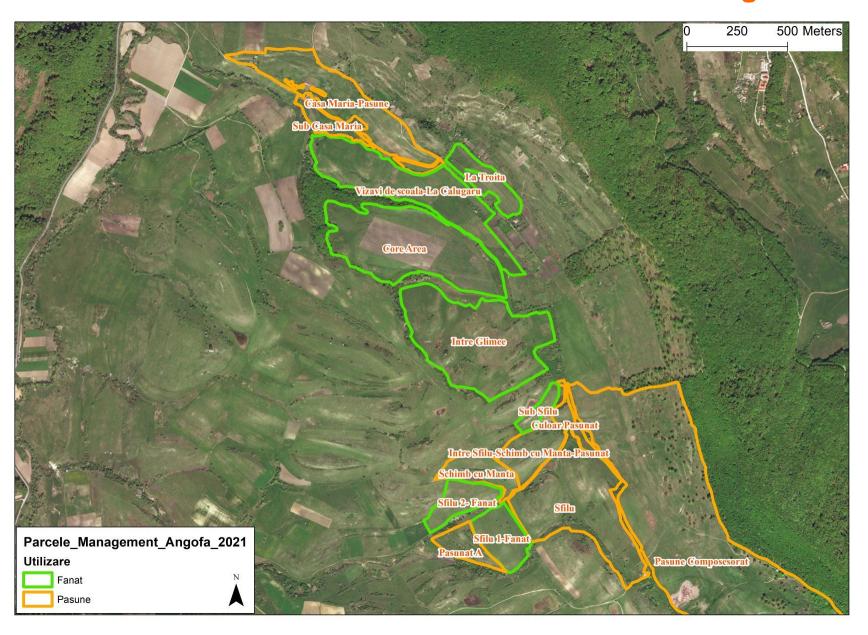


# VISCRI landscape features

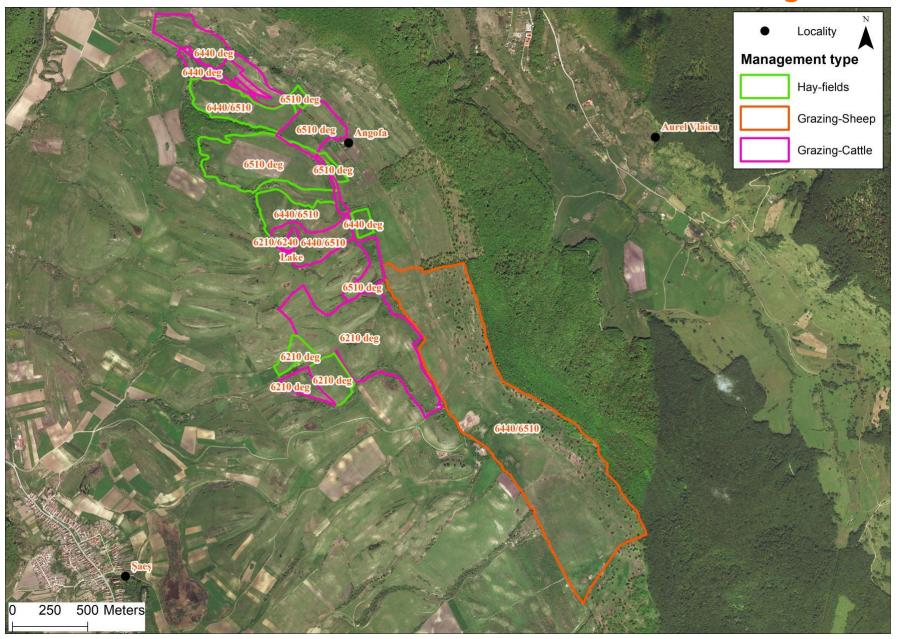
# **ANGOFA** habitats



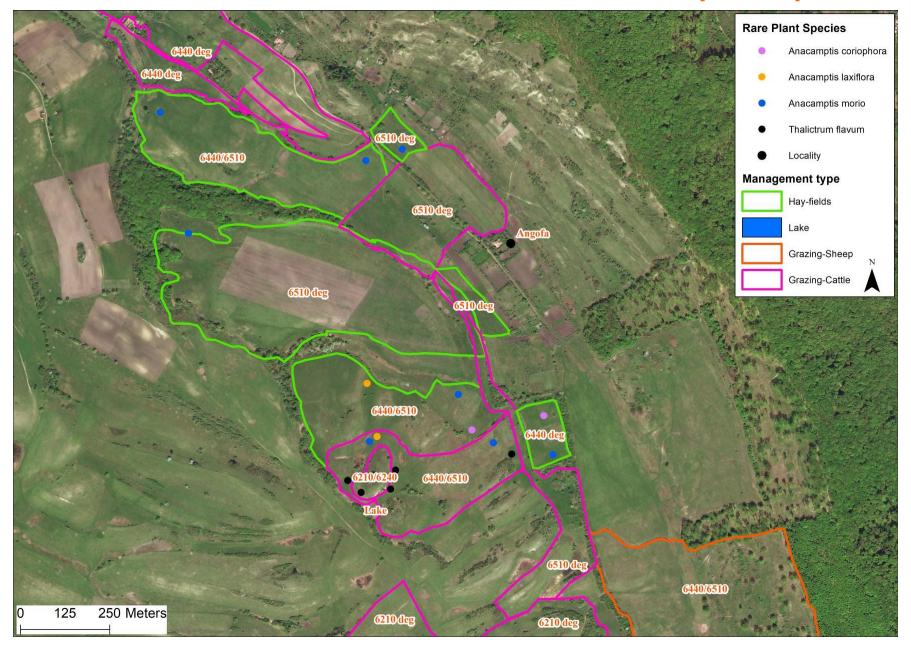
# **ANGOFA** management

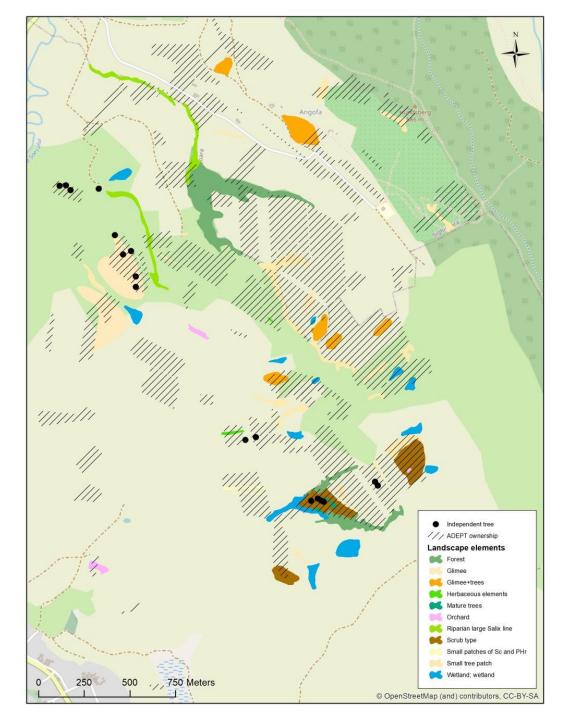


# **ANGOFA** habitats + management



# **ANGOFA HD plant species**





# ANGOFA landscape features

## **Actions**

A3. design and build a demonstration farm, using existing Angofa farm: livestock buildings, teaching facilities.



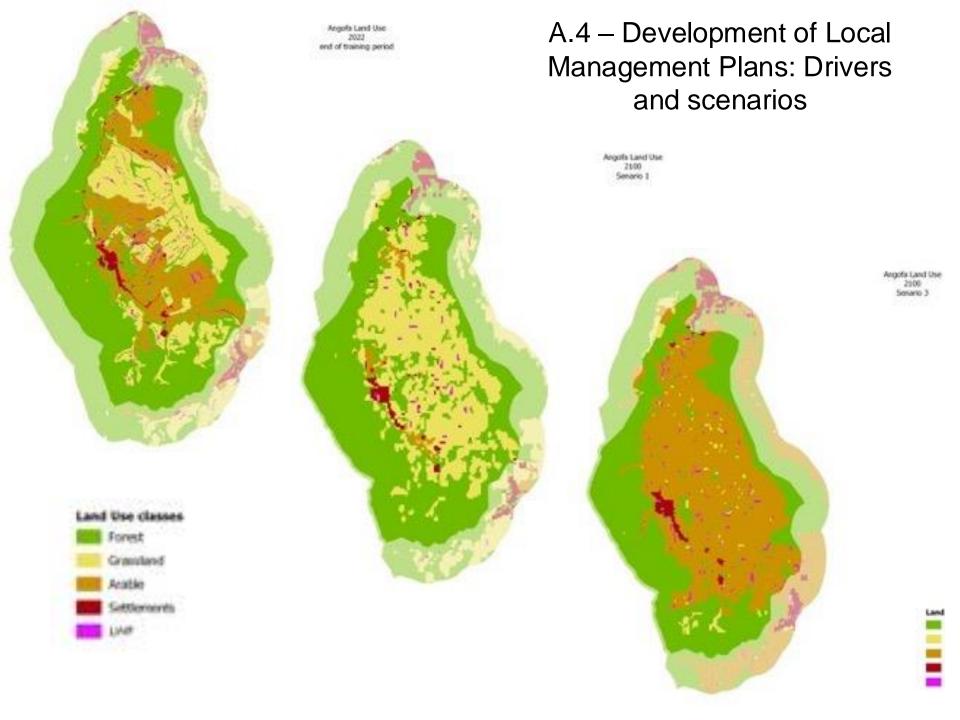


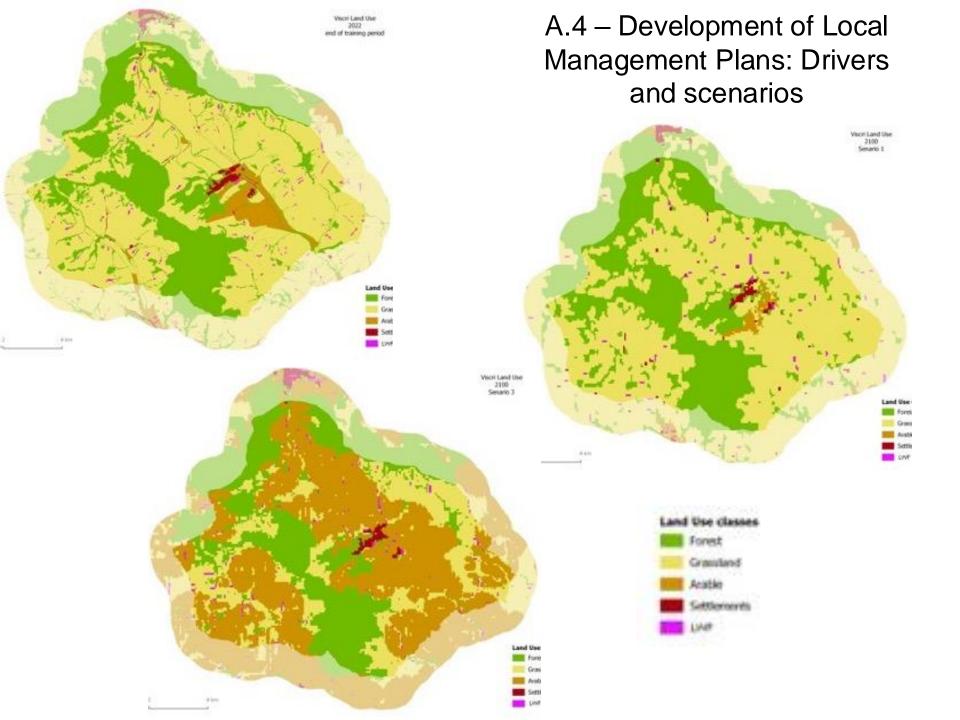
## A.4.

- develop local management plans with neighbouring farmers:
  - 10-15 farmers in Angofa,
  - 30-40 farmers in Viscri valley.
- create and train a Farmers' Association for Angofa, and improve the capacity and effectiveness of existing farmers' association in Viscri

## According to schedule:

- developed management and landscape feature maps for the two areas
- worked with a specialist to develop a scenario program that will allow the automatic generation of revised maps based on the consequences management decisions taken
- series of meetings with farmers to discuss the project. Minimum 3 meetings with each valley 2021, 2022, 2023 and 2024
- Community meetings in 2023 and 2024 (after Covid restrictions ended), so that the local management plan development process gets properly underway.
- Local management plan developed in May 2022, which allowed the consequent management decisions to take place without affecting the other timings of the project.
- The detailed maps and scenario-generating piece of software, uniquely developed for the project, made the co-development process more interesting and participatory for the local communities.









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# A.4 – Development of Local Management Plans: main plan 60pp -> farmers' plan 12 pages



# Angofa and Viscri Grasslands Management Plan 2023 to 2032





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Pajiștile din Angofa

Plan de management pentru fermieri 2023 - 2032



Movile grasslands near Viscri – 2018

Fundația ADEPT Transilvania Str. Principală, 166 Saschiz Mureș 547510 Romania

Angofa and Viscri Management Plan Annexes page i



Fundația ADEPT Transilvania Str. Principală, 166

Saschiz Mures 547510 Romania



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Pajiștile din Viscri

Plan de management pentru fermieri 2023 - 2032



Pajişti pe movilă în apropiere de Viscri - 2018

A.5. provide biodiversity farming training include plant identification, use of smartphone apps to help farmers identify/map flower species, monitor soil health.

## We have:

Developed indicator species training cards. based on the plant lists developed by the botanists early in the project. We tested them with farmers during 2022 before the final brochures were printed. These materials include 76 indicator species for High Nature Value grassland and for correct management for the target habitats directive habitats. These were done in 12/21, ahead of schedule (which was 02/22).

External specialists in management and marketing, due by 10/21, interrupted by covid but we have done by remote training for ADEPT staff, as a result of which we have built up interesting training materials which we will use with the farmers during 2022. These training materials refer mainly to regenerative agriculture, which is very relevant to the continued economic viability and biodiversity friendly management of the valleys.

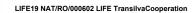
We developed a management plan for Angofa, practical and as a training example

We backed up these training materials with the visits by external specialist during 2022 and 2023.

- UK farmers
- Russ Carrington

# A.5 – Plant and invertebrate HNV indicator species booklets







## SPECII DE PLANTE INDICATOARE PENTRU PAJIŞTILE CU VALOARE NATURALĂ RIDICATĂ

## SPECII DE PLANTE INDICATORI DE MANAGEMENT AL PAJIȘTILOR

FUNDAŢIA ADEPT TRANSILVANIA Martie 2021





Proiectul LIFE TransilvaCooperation, LIFE19 NAT/RO/00060, implementat de către Fundația ADEPT Transilvania, este finanțat prin Programul LIFE al Uniunii





LIFE19 NAT/RO/000602 LIFE TransilvaCooperation

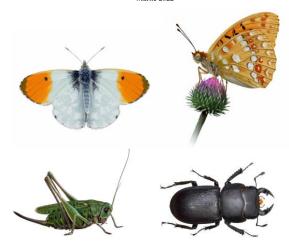






### SPECII DE INVERTEBRATE INDICATOARE PENTRU PAJIȘTILE CU VALOARE NATURALĂ RIDICATĂ

FUNDATIA ADEPT TRANSILVANIA Martie 2022



Fundația ADEPT Transilvania Str. Principală, 166 Saschiz Mureș 547510 România

## A.5. Training materials





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#### CREAREA FERMELOR REGENERATIVE



info@nielscorfield.com



# **PLANIFICAREA** LA NIVEL DE FERMĂ

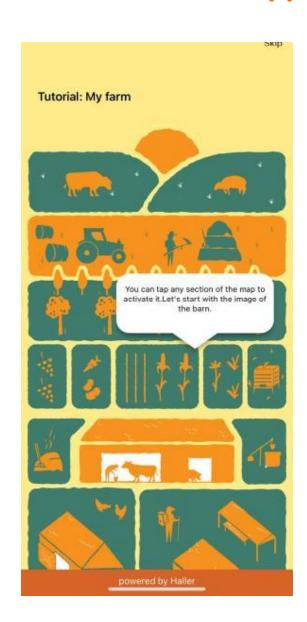
Principii practice pentru îmbunătățirea integrității, rezilienței și a capacității de producție a fermei dvs.



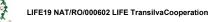
# Sănătatea pășunilor

Asigurarea unei ferme sănătoase (inclusiv solul) prin managementul pășunilor

# A.5. Apps: Haller and Soilmentor









# TESTAREA SOLULUI PENTRU UTILIZAREA SOILMENTOR

FUNDAŢIA ADEPT TRANSILVANIA

Martie 2021





Proiectul LIFE TransilvaCooperation, LIFE19 NAT/RO/00060, implementat de către Fundația ADEPT Transilvania, este finanțat prin Programul LIFE al Uniunii

## C. Conservation actions.

Restoration of 240 ha of HD grassland habitats by clearing scrub, mowing, improved grazing, protecting landscape features.

## Target habitats:

- 40A0\* Sub-continental Peripannonic scrub;
- 6210 Semi-natural dry grasslands scrubland facies on calc. substrates);
- 6240\* Sub-Pannonian steppic grasslands;
- 6510 lowland haymeadows. ?No alpine haymeadows?

Supply innovative grassland restoration equipment, mobile herd management equipment, provide fencing and water points.

Scrub clearance, mowing with light mowers, controlled rotational grazing with cattle, including mob grazing trials, and improved protection of haymeadows and landscape features from uncontrolled grazing – movable electric fences.

D. Monitoring: of improved flora, fauna, habitat condition, soil quality, including comparison with neighbouring areas, inc. socio-economic results. Scientists and farmers will provide information.

- C. Conservation actions: equipment.
- C1.1: Purchase meadow management equipment:
  - tractor,
  - blades oil and battery for brielmaier
  - plus monitoring equipment platemeter, compaction tester, soil sampler
- C1.2: Purchase pasture management equipment:
  - shredder,
  - cattle race and yoke,
  - trailer,
  - refrigerated container,
  - chain saw and strimmers,
  - electric fence,
  - harrow

# Action C – Conservation actions: measures to maintain and restore species-rich grassland

In each valley, a minimum 100ha of HD pasture and minimum 20ha of HD haymeadow to be directly restored to Favourable Conservation Status, by clearing of scrub, mowing and improved grazing, giving total 240ha of which

- 10ha will be 40A0\*,
- 180ha 6210,
- 40ha 6240\*,
- 10ha 6510.

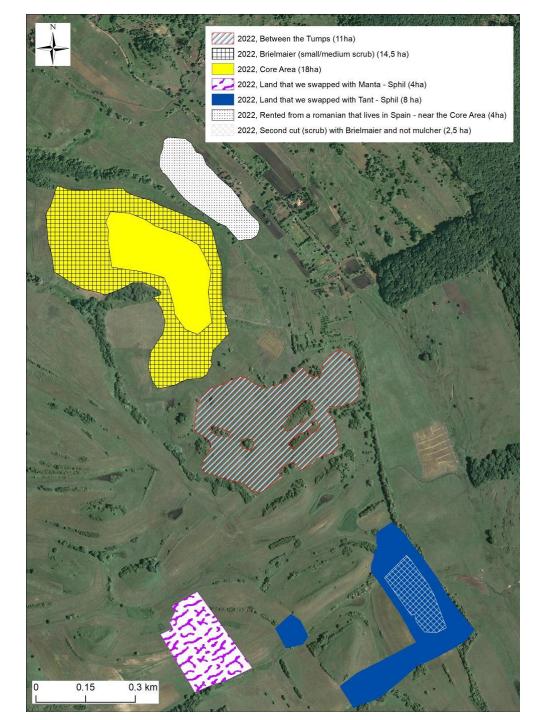
C1.3: HAYMEADOW: we have restored **102 ha** of abandoned haymeadow in Angofa in 2022-2024. We have not restored haymeadow in Viscri – not suitable.

Target for meadow restoration was 20ha, so we have exceeded this target.

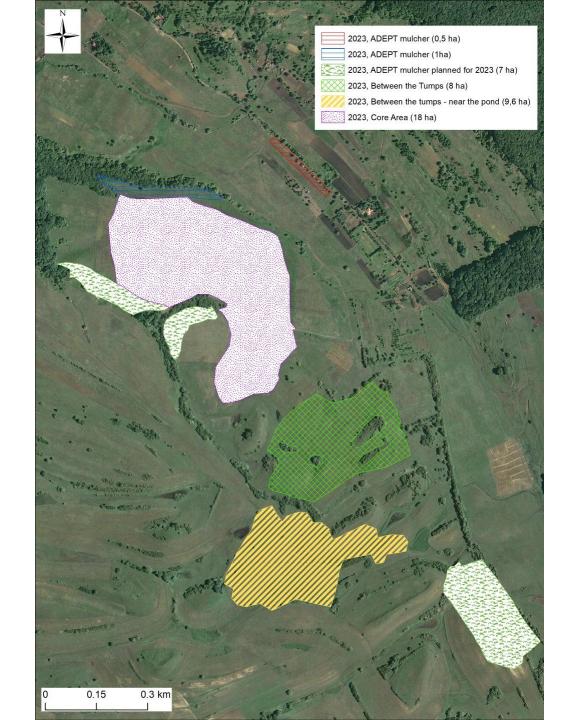
V1:4 PASTURE: we have restored 30.6 ha of pasture in Angofa and 220ha of pasture in Viscri in period 2022-2024, **total 250.6 ha.** 

Target for pasture restoration was 100 ha (50 ha in each valley), so we have exceeded this target.

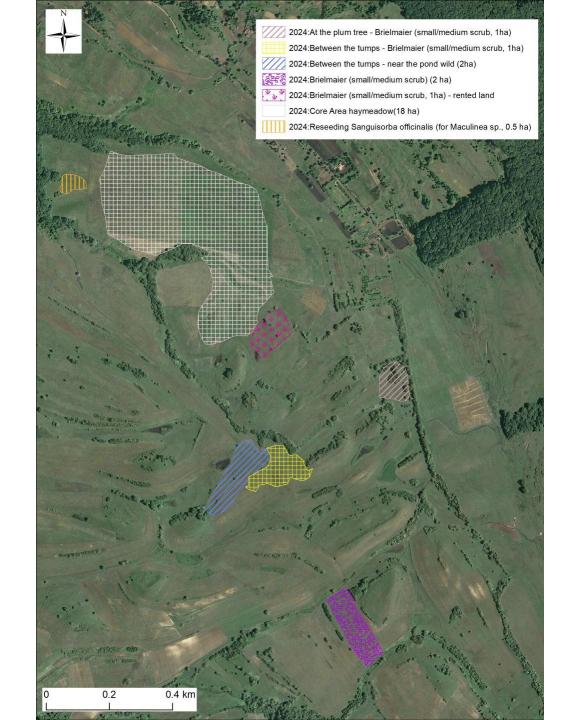
Angofa habitat restoration 2022



Angofa habitat restoration 2023



Angofa habitat restoration 2024



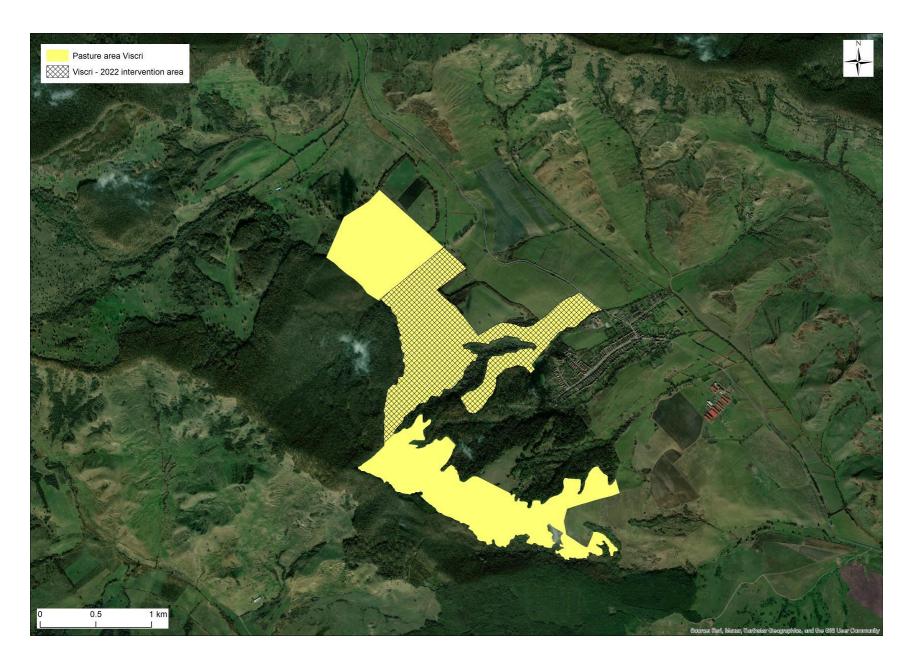
# Angofa habitat restoration totals

<mark>2022</mark>	Total Nr. of Ha	Mulcher		Total hay meadow 2022 =	36.6Ha
		hay meadow	5	Total pasture 2022 = 23.5Ha	
		pasture	5		
		Special Harrow			
		hay meadow	29		
		pasture	4		
		Second cut of scrub with Brielmaier			
		hay meadow	2.5		
		pasture	14.5		

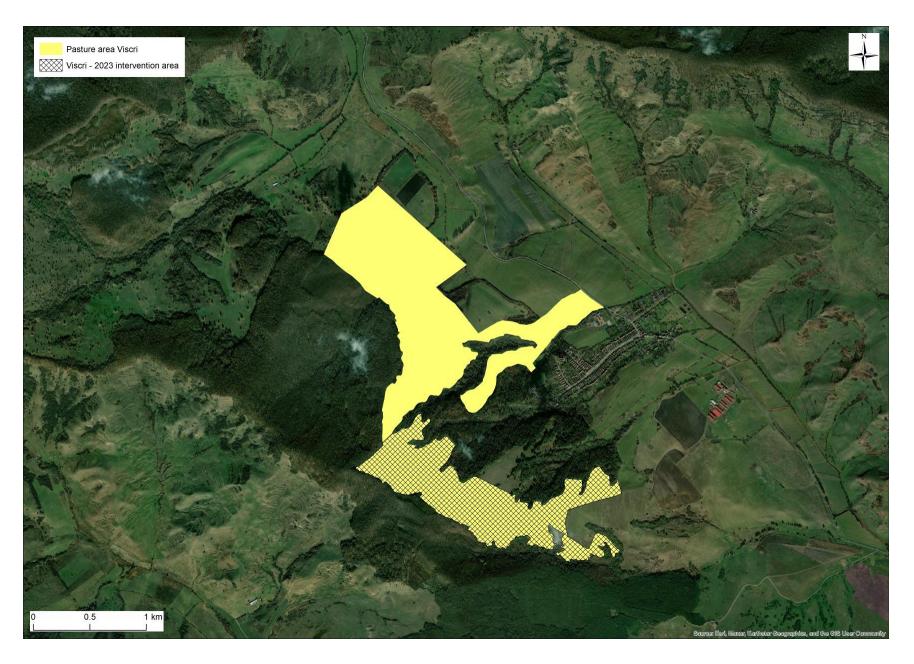
<mark>2023</mark>	Total Nr. of Ha	Mulcher		Total hay meadow 2023 =	44.44Ha
		hay meadow	1	Total pasture 2023 = 2 Ha	
		pasture	1		
		Special Harrow			
		hay meadow	37.44		
		pasture	0		
		Planned end of 2023			
		hay meadow	6		
		pasture	1		

<mark>2024</mark>	Total Nr. of Ha	Mulcher		Total hay meadow 2024 =	21.14Ha
		hay meadow	1	Total pasture 2024 = 3.1 Ha	
		pasture	3.1	Wilderness =	2ha
		Special Harrow			
		hay meadow	19.64		
		pasture	0		
		Overseeding Sanguisorba officinalis	0.5		
		Wilderness area in Angofa	2		

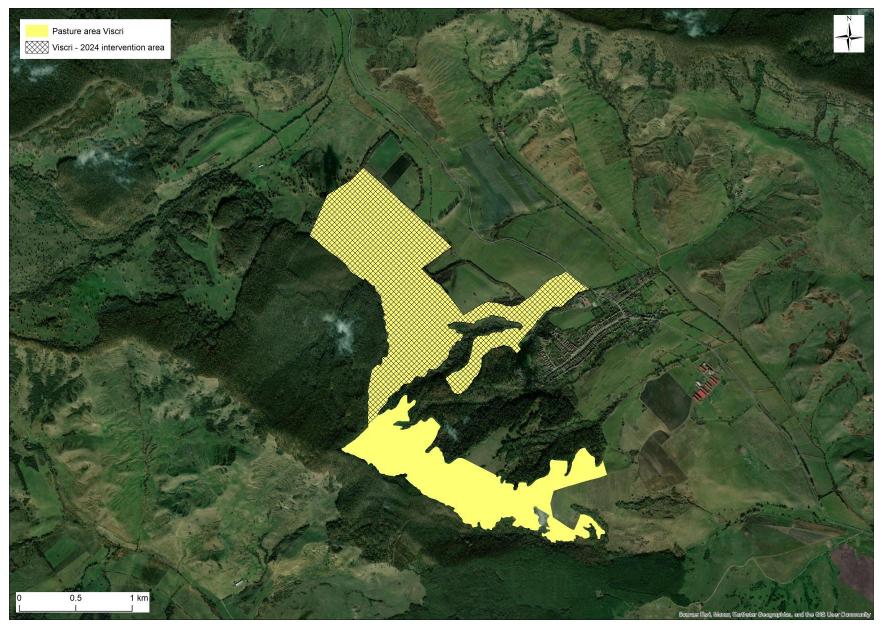
# Viscri habitat restoration 2022



#### Viscri habitat restoration 2023



### Viscri habitat restoration 2024

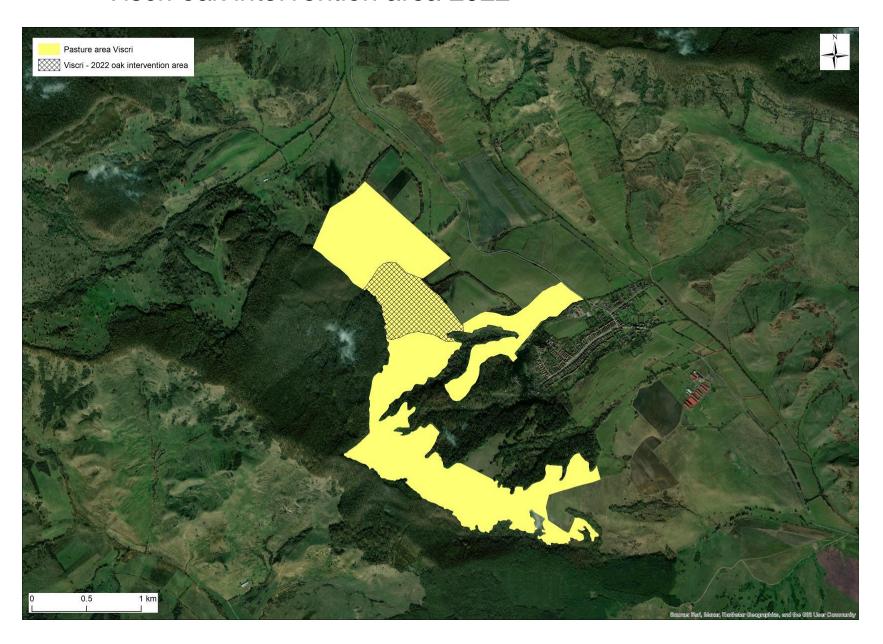


### Viscri habitat restoration totals

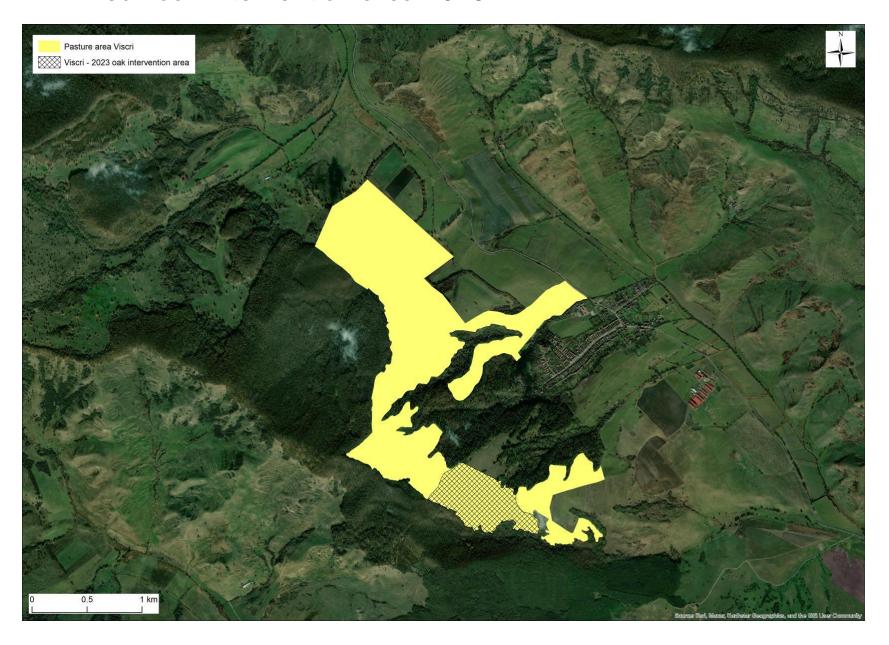
<mark>2022</mark>	Total Nr. of Ha	Scrub clearing		Total hay meadow 2022 = 0 Ha
		pasture	70	Total pasture 2022 = 70 Ha
			5	
		Special Harrow		
		hay meadow	0	
		pasture	0	
<mark>2023</mark>	Total Nr. of Ha	Scrub clearing		Total hay meadow 2023 = 0 Ha
				Total pasture 2023 = 120
		pasture	120	На
		hay meadow	0	
		Special Harrow		
		hay meadow	0	
		pasture	0	
<mark>2024</mark>	Total Nr. of Ha	Scrub clearing		Total hay meadow 2024 = 0 Ha
		3		Total pasture 2024 = 100
		pasture	100	Ha
		hay meadow	0	
		Special Harrow		
		hay meadow	0	
		pasture	0	

Other	nterventions		
2022	protecting oak saplings by fencing individualsaplings or by not removing the scrub arround the saplings		
2023	planting new oak saplings		25 ha

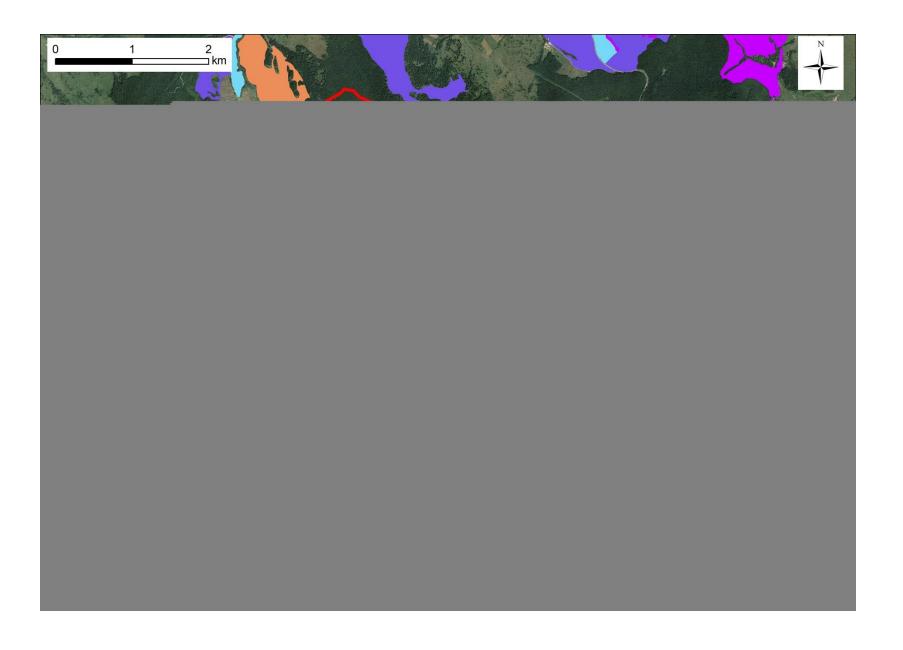
### Viscri oak intervention area 2022



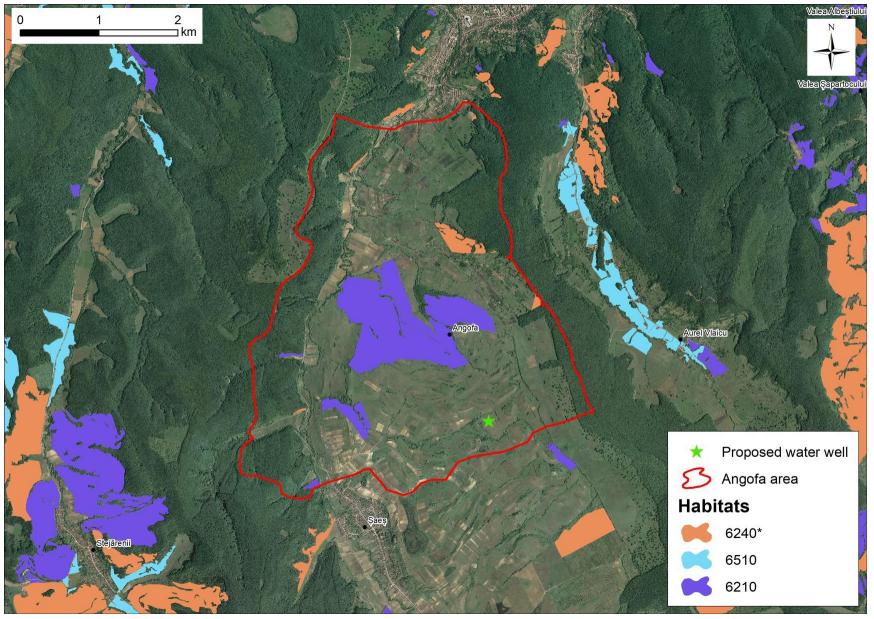
### Viscri oak intervention area 2023



## Viscri well



## Angofa well



We have many photos of before, during after, will be provided





#### Action D - monitoring of biodiversity and socio-economic results

#### See

- Socio-economic baseline report 2021
- Combined flora/soil methodology 2021
- Baseline flora and soil reports 2021
- Flora monitoring report 2022
- Lepidoptera reports 2021 and 2022

Flora and lepidoptera reports both show positive trend even after 1 year, 2021-22.

No reports 2023

2024 Socio-economic, flora and soil monitoring reports ready late 2024











Demonstrating cooperative approach for good management of Natura 2000 grasslands at landscape scale in Transylvania

Socio-economic baseline survey

15th December 2021

Authors:

Monica Stroe (monica.stroe@politice.ro) Bogdan lancu (bogdan.iancu@politice.ro) Department of Sociology, National University of Political Studies and Public Administration Bucharest





LIFE19 NAT/RO/000602 LIFE TransilvaCooperation





#### Annual Biodiversity Report Grasslands baseline survey

31 October 2021



Lead author, project leader: Dr Anamaria Roman Taxonomy and Ecology Department Institute of Biological Research Cluj-Napoca, INCDSB email: anamaria.roman@icbcluj.ro www.icbcluj.ro







#### LIFE19 NAT/RO/000602 Life TransilvaCooperation

#### Grasslands and Soil survey methodology (updated in 2022)

#### Authors

Anamaria Roman, Tudor-Mihai Ursu - plant ecologists Taxonomy and Ecology Department Institute of Biological Research Cluj-Napoca, INCDSB Republicii Str. No. 48, 400015 Clui-Napoca, Romania

Ramona Balc Soil scientist Faculty of Environmental Science and Engineering Babeş-Bolyai University 30 Fânânele St., 400294, Cluj-Napoca, Romania

This report describes the combined methodology for assessing and monitoring grassland vegetation and soil characteristics performed within the Angofa and Viscri project sites under LIFE19 NAT/RO/000602 Life TransilvaCooperation,

The influence of management type and intensity on grassland biodiversity and soil characteristics, structure and functions will be estimated in the last year of the monitoring, in 2024, by assigning the ecological and agronomical indices to each plant species that was inventoried within the vegetation transects and plots performed in 2021, 2022 and 2024.





LIFE19 NAT/RO/000602 LIFE TransilvaCooperation





#### -Annual Biodiversity Report--Grasslands Monitoring-

-31 October 2022-



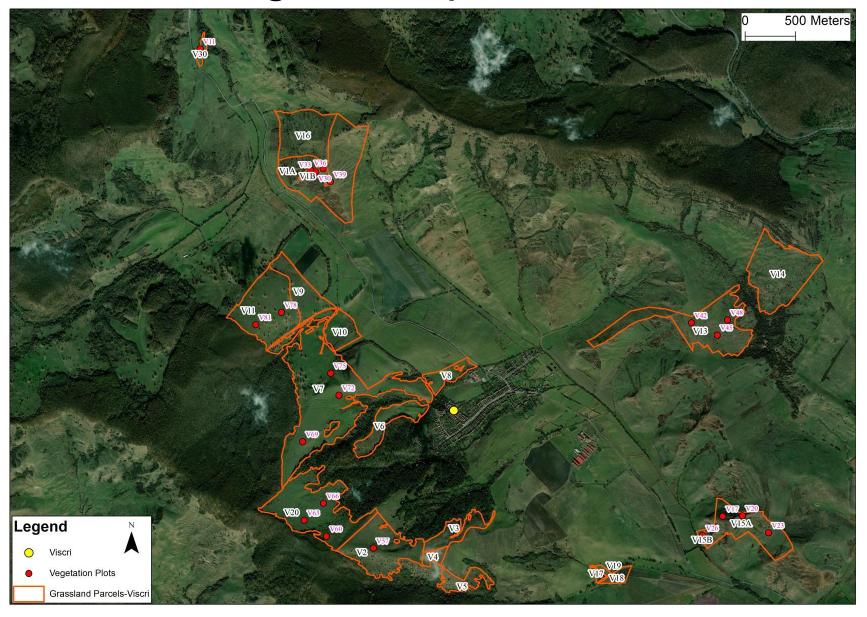
The grassland from the glimee at Angofa - 2022

Lead author, project leader: Dr Anamaria Roman Taxonomy and Ecology Department Institute of Biological Research Cluj-Napoca, INCDSB email: anamaria roman@icbduj ro www.icbcluj.ro

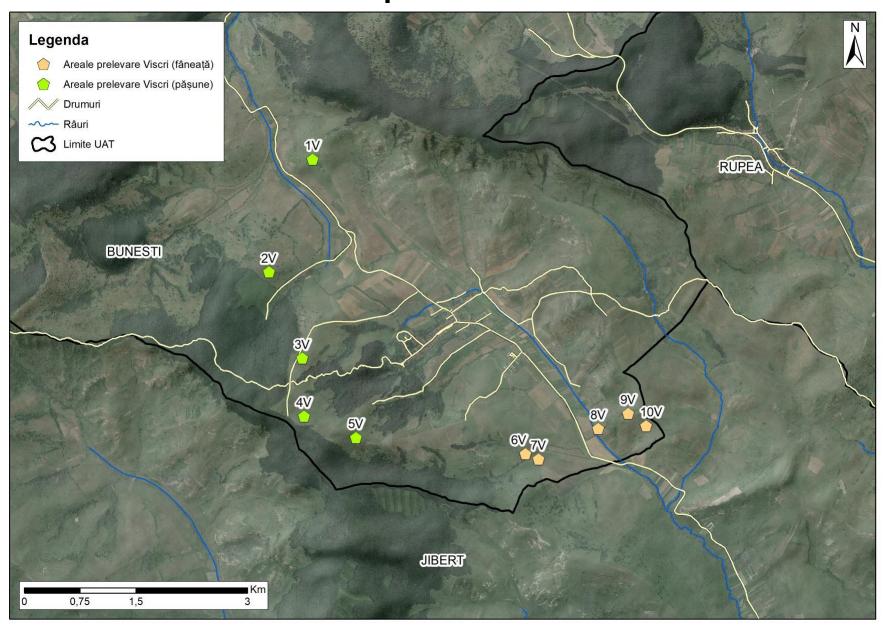
## Flora monitoring



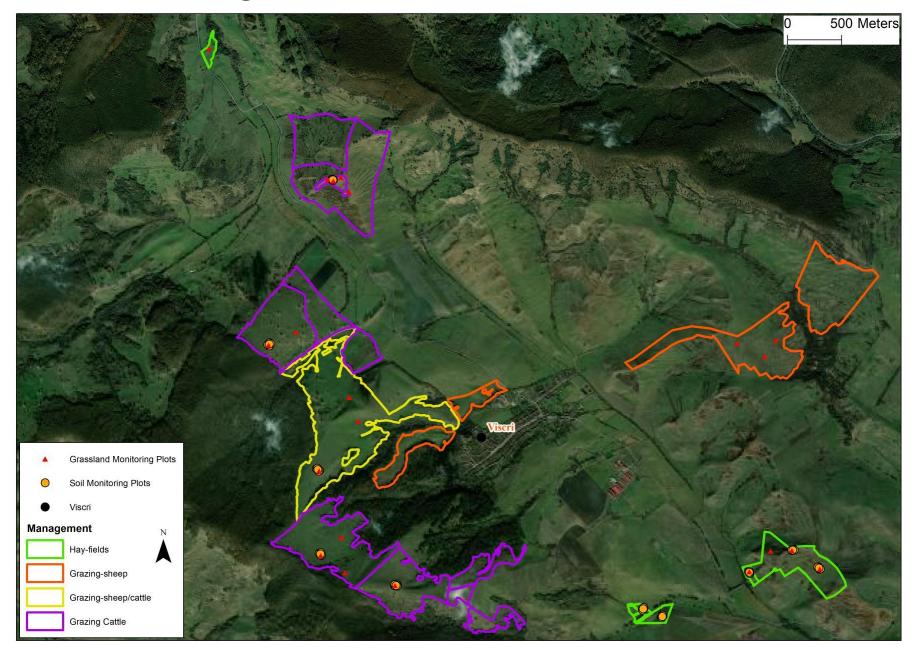
## Vegetation plots Viscri



## Soil plots Viscri



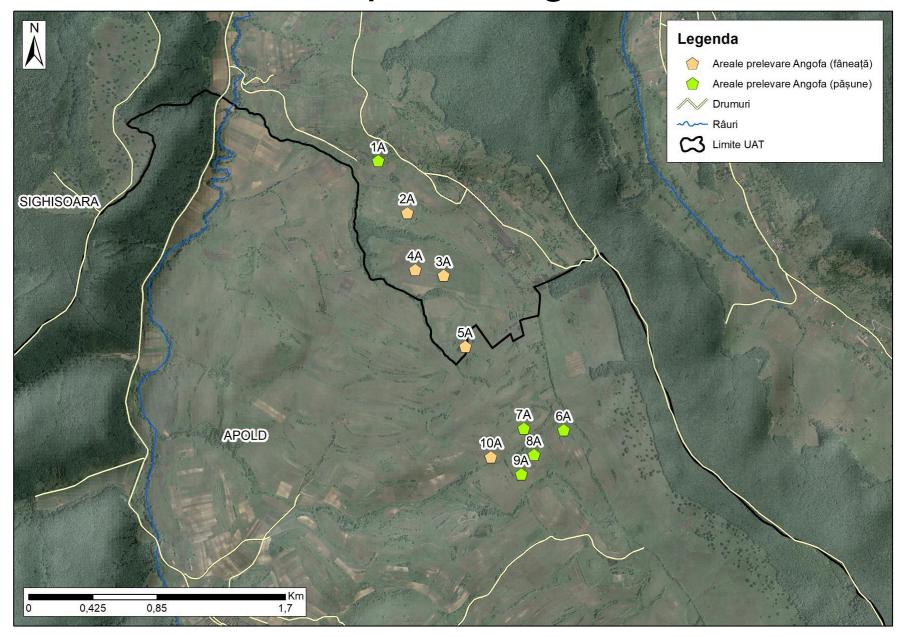
## Vegetation+ Soil plots Viscri



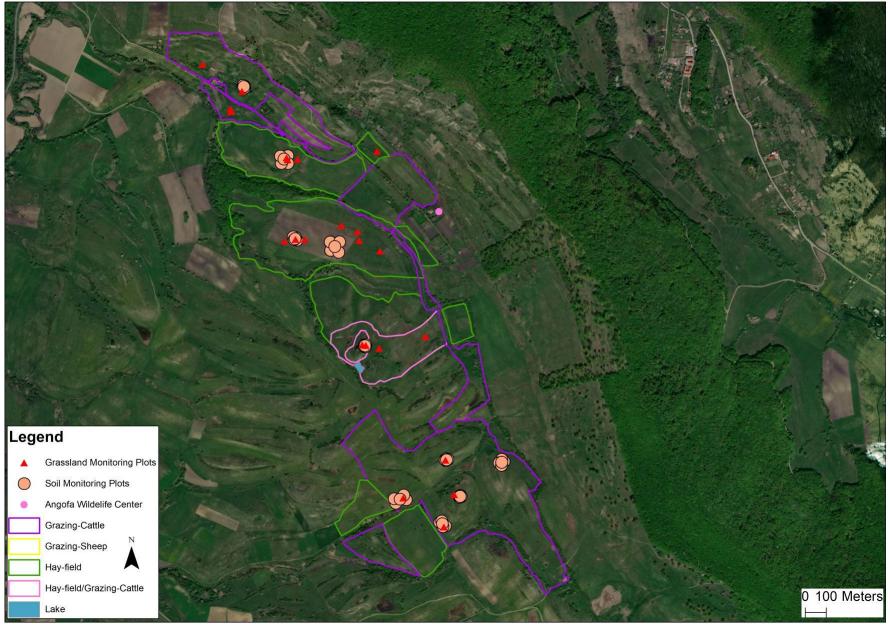
### Vegetation plots Angofa



## Soil plots Angofa



## Vegetation + Soil plots Angofa



### E. Dissemination planning and execution

- Media work: a press visit was due by milestone 09/2021, but not practical owing to covid restrictions. We have made 6 Facebook announcements, January 2021, June 2021, August 2021, October 2021, November 2021, February 2022. All these FB posts were also shared via our Instagram and Linkedin. ADEPT's FB has 16,218 followers, and a reach of 32,624 people (people who can see what we post but not necessarily following us). Instagram: 977 followers. Linkedin: 182 followers. There was also a broadcast about the project on Radio Brasov, 16 Feb 2021: link is included in Annex folder. Radio Brasov has a typical audience of 79,000.
- Networking. Although travel has been restricted by Covid, we have had contacts with numerous projects including: 

   ELCN/ENPLC LIFE project
   RBAPS network
   Latvian integrated project on grasslands
   SERE Talinn August 2024
- Visits to other HNV farming areas: due by September each year. Done in 2022 and 2023 after Covid restrictions ended
- Policy influence: we have had at least 5 meetings with Ministry of Agriculture, including on manure management, agri-environment payments schemes in new Programme
- Involving local communities in monitoring: Mosaic earth and Soilmentor
- We have begun the making of a film, using a professional film unit. Although the film is not
  deliverable until the end of the project, it is good to record the early days of the project so that the
  film can follow the course of the project over the full three years.
- Website: dedicated page created on time, 03/2021, and is constantly updated.
- We have developed the project logo (October 2021)
- Noticeboard designed and four installed, 2 in each valley. See image in Annex folderOctober 2021. Size 1.7 m wide x 0.7 m high.
- Roll-ups made for meetings: December 2021.

## Action E – Information and dissemination technology and activities

A press visit was done in 2021.

We have over 20 FB posts, also shared via our Instagram and Linkedin. ADEPT's FB has 17,655 followers (16,218 in 2022), and a reach of 99,100 people (32,624 people in 2022). Instagram: 1293 followers (977 followers in 2022). Linkedin: 182 followers.

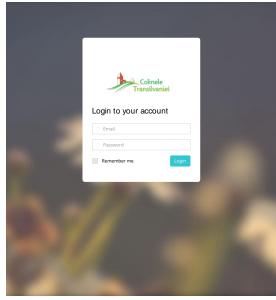
There was a broadcast about the project on Radio Brasov, Feb 2021: Radio Brasov has a typical audience of 79,000.

+ many more, separate list

Smartphone app under construction. Cooperation with NACCON. See image. Special section wildlife, farming practices as well as tourism activities and attractions.

ADEPT Haller also offers farm map to inform farmers and others





#### Action F – Project management, monitoring and reporting

We held the kick-off meeting as planned in November 2020.

Before the kick-off meeting, we had prepared a list of core staff and prepared terms of reference for each.

We have held monthly meetings, and additional meetings on specific subjects when required. Minutes of first meeting and some screenshots of these zoom meetings are available

There were no deviations from the planned list of staff.

Most meetings were held by zoom. This has not impeded the management of the project, all the conservation actions since these took place outside with no proximity to other people.

The negative impact of Covid was mainly on the inability to hold community meetings, and limited ability to hold farmer meetings, until February 2022. And on building of farmhouse. Project was extended for one year as a result.

Mid-term reports delivered on time

Extension grated until December 2024 as A3, A4 and A5 delayed by covid...

### Multumesc!



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