

LIFE integrirani projekt za okrepljeno upravljanje Nature 2000 v Sloveniji

LIFE17 IPE/SI/000011 - LIFE-IP NATURA.SI

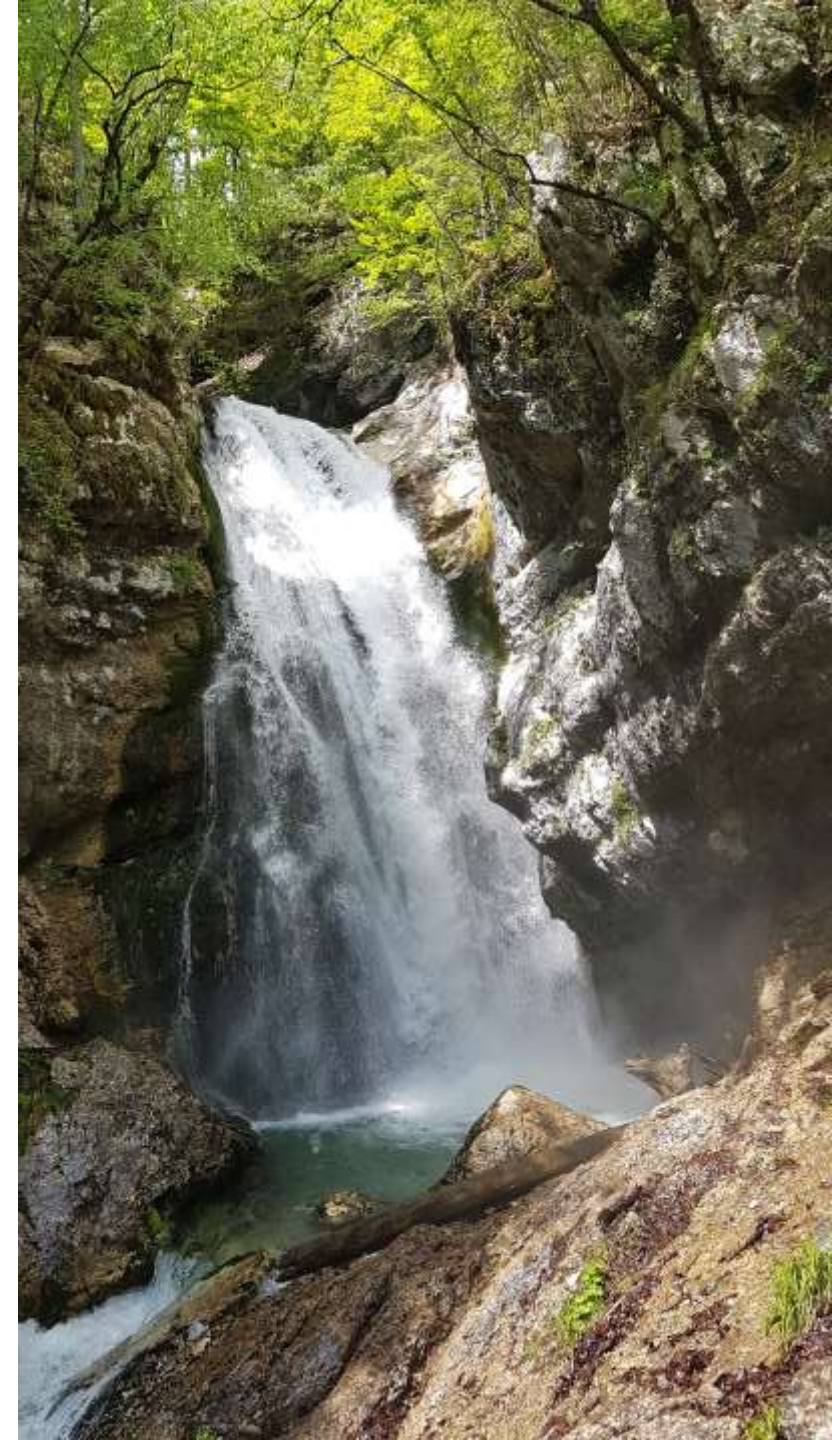
4th monitoring visit of the project by NEEMO & CINEA
13th July 2022



4th monitoring visit of the project by NEEMO & CINEA, 13th July 2022

AGENDA

9:00 - 9.30	Arrival of participants and morning coffee with a snack
9:30 - 10:45	Welcoming words - mag. Tanja Bolte, Acting Director-General, Environment Directorate Introductory greetings from monitors and partners General information Complementarity Financial report – total overview
10:45 - 11:05	Coffee break (on site)
11:05 - 12:50	Technical part - presentation of project activities (part 1)
12:50 - 13:50	Lunch break (catering on site)
13:50 - 15:15	Technical part - presentation of project activities (part 2)
15:15 - 15:35	Coffee break (on site)
15:35 - 17:00	Technical part - presentation of project activities (part 3)
17:00	End of the meeting



Partnership



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA OKOLJE IN PROSTOR



REPUBLIKA SLOVENIJA
**MINISTRSTVO ZA KMETIJSTVO,
GOZDARSTVO IN PREHRANO**



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA OKOLJE IN PROSTOR
DIREKCIJA REPUBLIKE SLOVENIJE ZA VODE



ZAVOD za GOZDOVE
SLOVENIJE



Kmetijsko gozdarska zbornica Slovenije



ZAVOD REPUBLIKE SLOVENIJE
ZA VARSTVO NARAVE



Zavod za
ribištvo
Slovenije



Kmetijsko gozdarska zbornica Slovenije
KMETIJSKO GOZDARSKI ZAVOD
PTUJ



Univerza v Ljubljani
Biotehniška fakulteta



NACIONALNI INŠTITUT ZA BIOLOGIJO



GOZDARSKI INŠTITUT SLOVENIJE
SLOVENIAN FORESTRY INSTITUTE



Kmetijsko gozdarska zbornica Slovenije
KMETIJSKO GOZDARSKI ZAVOD
LJUBLJANA



CKFF
CENTER ZA KARTOGRAFIJO
FAVNE IN FLORE

ŠTIRNA
Trajnostne rešitve



Kmetijsko gozdarska zbornica Slovenije
KMETIJSKO GOZDARSKI ZAVOD
NOVA GORICA



15 partners – 5 sectors

**Water
Management &
fisheries**



23%

Biology and nature conservation



Forestry & hunting



14%

**Strategic
communication**



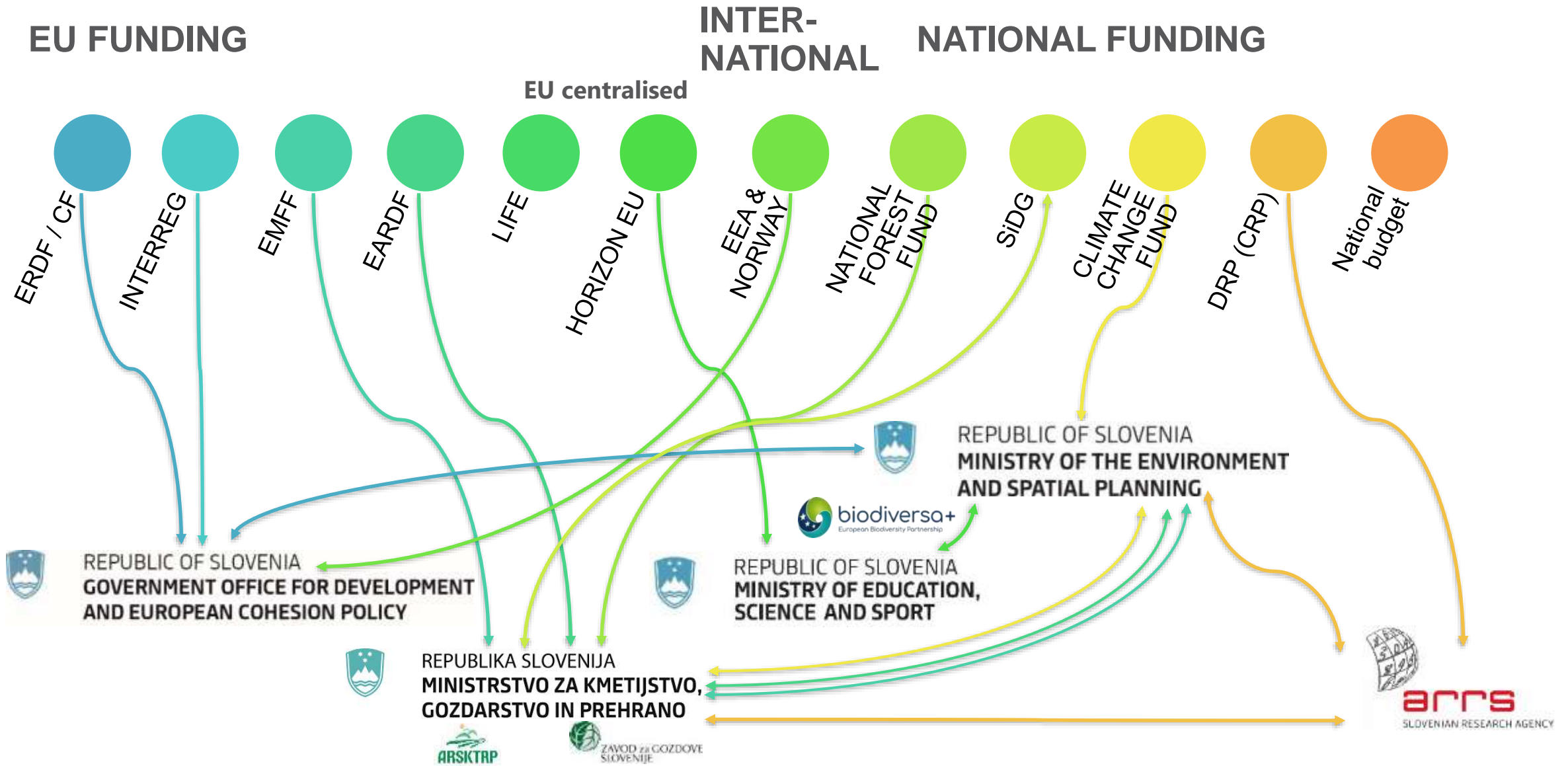
15%

Farming



12%

Funding of Natura 2000 in Slovenia



Funding of Natura 2000 in Slovenia



PRIORITISED ACTION FRAMEWORK (PAF) FOR NATURA 2000 in SLOVENIA

pursuant to Article 8 of Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora (the Habitats Directive)

for the *Multianual Financial Framework* period 2021 – 2027

Date of version 13.10.2020

Contact address: Ministry of the Environment and Spatial Planning
Dunajska 48
SI- 1000 Ljubljana
Slovenia
gp.mop@gov.si



Analysis of financing planned and used for Natura 2000 Management Programme in Slovenia for the multiannual period 2015-2020

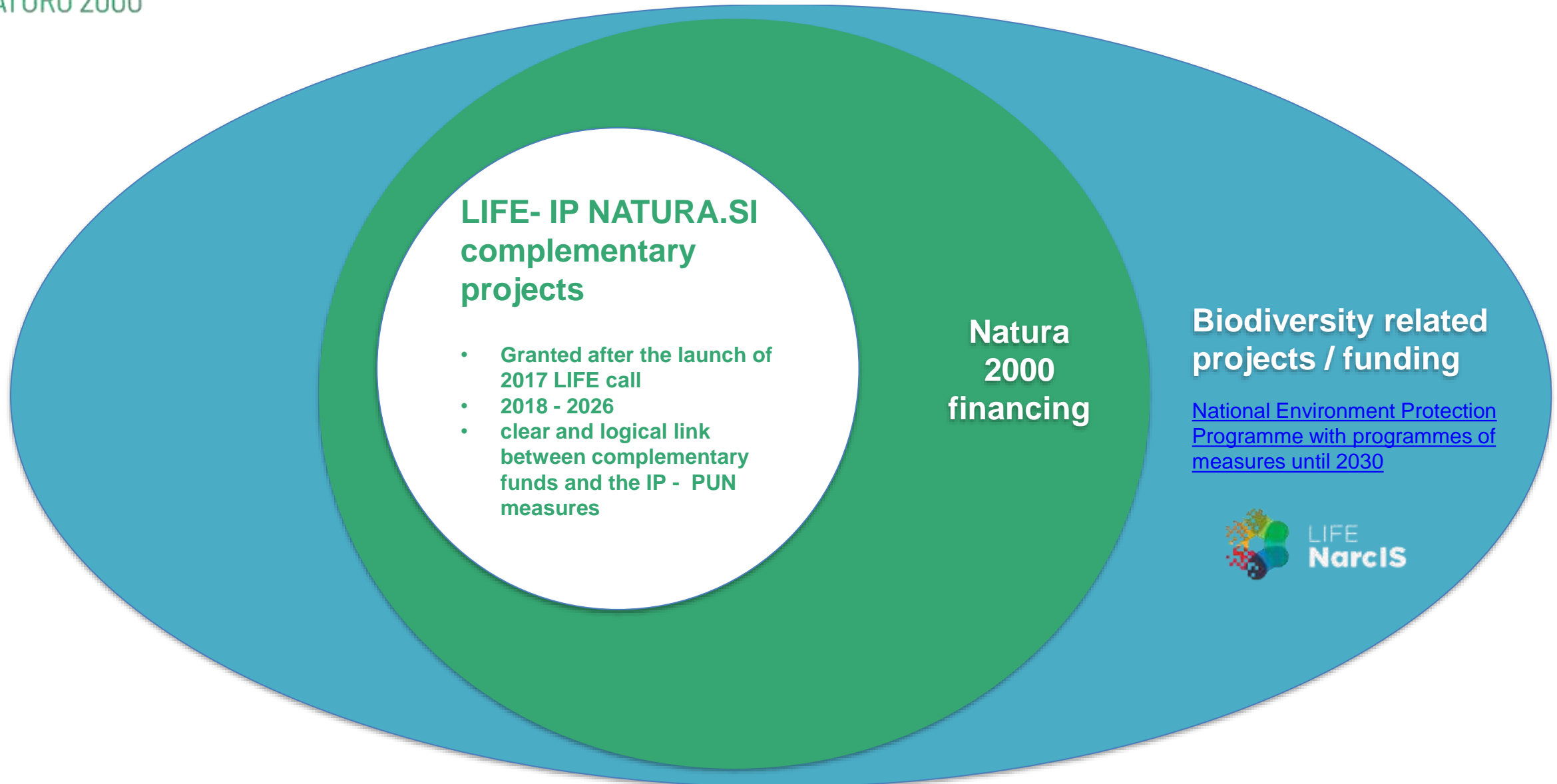
Project:

LIFE integrated project for enhanced management of Natura 2000 in Slovenia (LIFE17 IPE/SI/000011, LIFE-IP NATURA.SI)

Action A.3

LIFE integrated project for enhanced management of Natura 2000 in Slovenia (LIFE17 IPE/SI/000011) is co-financed by the European Union programme LIFE, Ministry of the Environment and Spatial Planning and project partners. The sole responsibility for the content of this report lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the CINEA nor the European Commissioners are responsible for any use that may be made of the information contained therein.

Monitoring of complementary projects



Monitoring of complementary projects

SOURCES of information on projects

- ✓ Operational Programmes
- ✓ Annual national budget
- ✓ Annual plans & programmes
- ✓ NCPs,
- ✓ Management bodies
- ✓ LIFE IP partners directly
- ✓ Newsletters, clipping
- ✓ Natura 2000 site

([Projekti Nature 2000 - NATURA2000](#))

SOURCES of information for reporting

- ✓ contract supervisors at Management bodies
- ✓ Annual reports by Management bodies
- ✓ Annual / final reports of projects
- ✓ **Annual PUN reporting**
- ✓ Annual national budget
- ✓ Annual business reports by public institutions (protected areas, SiDG, ZRSVN, ZZRS, ZGS...)
 - ✓ National report on forests

Challenges

- ✓ Different reporting
- ✓ Different IS (EMI, EMS Mferac)
- ✓ Different timelines
- ✓ Connecting finances with PUN measures

[illegible]



Overview of complementary projects - ERDF



Drava - Natura 2000

Domov – Drava Natura 2000
(drava-natura.si)



Gorička krajina

Krajinski park Goričko (park-goricko.org)



KRAS.RE.VITA

KRAS.RE.VITA (notranjski-park.si)



Mala barja - Marja

Mala barja – Marja (malabarja-marja.si)



VIPava

Projekt VIPava - Zavod za ribištvo Slovenije

Natura Mura



natura
MURA

Domov - Natura Mura (natura-mura.eu)

Za Kras

Park Škocjanske jame
(park-skocjanske-jame.si)



Pivka.Kras.Presiha

PIVKA.KRAS.PRESIHA – Pivška
presihajoča jezera (pivskajezera.si)



Pohorka

Pohorka | Projekt Pohorka



VrH Julijcev

VrH Julijcev - Izboljšanje stanja vrst in
habitatnih tipov v Triglavskem narodnem
parku » Triglavski narodni park (tnp.si)



PoLJUBA

PoLJUBA - Obnovitev in
ohranjanje mokrotnih habitatov na
območju Ljubljanskega barja



Overview of complementary projects - ERDF

ACRONIM	Project Name	Natura 2000 areas	HT	species
Gorička krajina	Maintenance of agricultural landscape for birds and butterflies in Goričko	2	3	10
KRAS.RE.VITA	Improving the condition of the most important grasslands and bog areas on Lake Cerknica and Planinsko polje	3	4	9
Mala barja - Marja	Improvement of the status of alkaline fens and transition mires in Central Slovenia and in the Gorenjska region	10	6	6
Natura Mura	Restoration of wetland habitats along the Mura River	2	3	12
PIVKA.KRAS.PRESIHA	Improving the conservation status of species and habitat types of the Pivka Intermittent Lakes Landscape Park	2	4	8
POHORKA	Improvement of the status of grassland, water and minor forest habitats and determination of quiet zone in the Pohorje hills - Vizija Pohorje 2030	2	7	6
PoLJUBA	Restoration and maintenance of wetland habitats in the Ljubljana Marshes	2	3	8
VIPava	Measures for maintaining and improving the conservation status of endangered animal species and habitat types in Vipava valley	2	0	10
VrhJULIJEV	Improving the status of species and habitat types in Triglav National Park	3	4	8
za KRAS	Ensuring the appropriate use of karst grasslands and walls – ZA KRAS	2	3	32
zaDRAVO	Improving the conservation status of species and habitat types of the river and riparian zones of the Drava River	2	4	11
Together	11 PUN, App 6.4 priority projects	32	24	65

11 projects,

40 mio €

✓ 10 ongoing,

✓ 1 finished

+ 4 complementary „cultural“ projects with Natura 2000 interpretation:

- ✓ Natura 2000 Information centre Kras - Štanjel Castel Interpretation Information Centre
- ✓ Borl Castle UNESCO Heritage Interpretation
- ✓ Centre for prehistoric pile dwelling on Ig;
- ✓ Interpretation Centre Natura 2000 - Auersperg Ironworks Dvor

7,6 mio €

Overview of complementary projects - EARDF



M.10 Targeted Natura 2000 Agri-Environment-climate payments (HAB, MET, VTR, STE)

2018 – 2020
7950 ha
3,8 mio € payments

M.8.4 Investments in forest area - elimination of damage & reforestation

Payments for investments in reforestation after natural disasters,
also for areas outside Natura 2000.

2018 – 21, 925 applications
4,8 mio € payments



M.16.5 EIP & Pilot projects

- ✓ 1 Pilot project Testing of two-stage implementation of the VTR measure
- ✓ 12 EIP projects from 2018-2022
 - ✓ 1 X Biodiversity conservation in forest habitats
 - ✓ 7 X Agriculture in support of nature conservation or the conservation of biodiversity through the appropriate farming practice
 - ✓ 1 X Management of grassland of high nature value
 - ✓ 3 X Mitigation and adaptation to climate change in agriculture

each app 200.000 €
together 2,9 mio €

Overview of complementary projects - EMFF



FIELD MAPPING OF NATURA 2000 MARINE HABITAT TYPES IN THE SLOVENIAN SEA

[List of operations - Field mapping of Natura 2000 marine habitat types in the Slovenian sea - Ribiški sklad \(ribiski-sklad.si\)](#)

each app 70,000 €
together 0,22 mio €

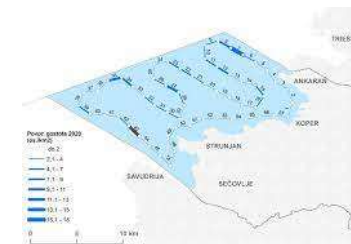
MONITORING OF DOLPHINS IN SLOVENIAN SEA FOR THE REPORTING PERIOD 2013-2018

[Monitoring of dolphins in Slovenian sea for the reporting period 2013-2018](#)



MONITORING OF PHALACROCORAX ARISTOTELIS IN SLOVENIAN SEA 2020-2021

[Monitoring of Phalacrocorax aristotelis in Slovenian sea 2020 - 2021](#)



Overview of complementary projects - INTERREG



CARNIVORA DINARICA

CARNIVORA DINARICA

[Projekt Carnivora Dinarica - Dina Pivka](#)



Interreg
SLOVENIJA - HRVAŠKA
SLOVENIJA - HRVATSKA
Evropska unija | Evropski sklad za regionalni razvoj
Europska unija | Europski fond za regionalni razvoj



ECO-SMART

[ECO-SMART | Italia
Slovenia \(ita-slo.eu\)](#)



ENGREEN

[ENGREEN | Italia Slovenia
\(ita-slo.eu\)](#)

VEZI NARAVE

[Vezi narave – My
WordPress Blog](#)



TRETAMARA

[TRETAMARA |
Italia Slovenia
\(ita-slo.eu\)](#)



GREVISLIN

[GREVISLIN | Italia Slovenia \(ita-slo.eu\)](#)

**6 PROJECTS
5,93 mio €**



EEA & NORWAY GRANTS



CIPRA
LIVING IN
THE ALPS

JeloviZa - to improve ecosystems and conserve vulnerable species of **NATURA 2000** at Jelovica;

Preparation of management model based on ecosystem services in decision making processes

2 PROJECTS
CONFIRMED!
2,4 mio €

Restoration of the network of wetland and grassland important for **NATURA 2000** and other protected species and habitat types in the Karst Biosphere Reserve and the Reka river basin and the intermittent lakes of Pivka nature park



2 projects on
reserve list
2,4 mio €


Park *Škocjanske jame*,
Slovenija



Knowledge for
sustainable **NATURE**
management

Integrative approach in management and nature-based adaptation of coastal **NATURA 2000** riverine and wetland area



Overview of complementary projects – National funding

Climate change Fund

- ✓ Based on Ordinance on the Climate Change Funding Programme
- ✓ Responsible authority - MOP - Division for the Environment and Climate Change at Environment directorate
- ✓ Implementation in accordance with programme adopted by Government, contracts and allocations.

For biodiversity conservation measures so far allocated:

- 2019 Program for the use of funds of the Climate Change Fund
 - ✓ up to 3,35 mio €
- Program for the use of funds of the Climate Change Fund in the period 2021 - 2023
 - ✓ 2021 2,5 mio €
 - ✓ 2022 1,5 mio €
 - ✓ 2023 1,38 mio €

**Allocated 8,7 mio €
(2018-2021)**

**Spent
5,4 mio €
(2018-2021)**

Overview of complementary projects – National funding

National Forest Fund

- ✓ Based on Management of State Forests Act, yearly Forest Investment Programs
- ✓ Responsible authority - MKGP - Forestry and Hunting Directorate
- ✓ Slovenian forest service (ZGS) prepares yearly investment programmes. MKGP adopts the program and is responsible for financing the measures.
- ✓ ZGS regional units implement measures on the field, promote and prepare agreements with landowners.

For Implementation of PUN Natura 2000 measures in private forests allocated:

- ✓ 2018-2021 750.000 € / yearly
- ✓ in 2022 1 mio € / yearly

**Allocated 4 mio €
(2018-2022)**

**Spent
2,4 mio €
(2018-2021)**

Overview of complementary projects – National funding

SiDG

Slovenski državni gozdovi d.o.o. company

- ✓ ZGS regional units agree with the SiDG Business Units regarding the needs for investments in forests, prepare preliminaries and these are then included in the Program of Investments in Forests.
- ✓ measures in state forests - e.g. Eco-cells without action - are agreed on the renewal of GGN GGE plans in accordance with the ZRSVN's Nature protection guidelines and strategic objectives in GGO and nature conservation objectives defined in PUN
- ✓ measures in State owned forests are implemented by SiDG units

- The amount of SiDG funds for investments in forests has been increasing in recent years and in 2021 amounted to 3,3 million €
 - over 3163 ha for forest care, 826 ha restoration
- The amount of funds for the purchase of forests is also steadily increasing (in 2022 – 7 mio € allocated)
 - 55% of purchased forests are with status ZG and ZON
 - In 2021 1,536 ha, of which 426 ha are protected and 401 ha are special purpose
 - essential habitat for the white-backed woodpecker (*Dendrocopos leucotos*) a former Forest reserve Kobile in SPA Gluha loza, > 300 ha bought & will be re-declared as forest reserve

**14 mio €
(2020-2021)**

Overview of complementary projects – National funding

Targeted research projects (CRP)

- ✓ system for inter-sectoral cooperation in planning and implementing networked R&D projects for specific areas of public interest

The aim of a CRP is to ensure target-oriented research support for the following:

1. preparation of long-term development planning documents and system-level solutions for implementation at the national level, and for priority areas at the individual, inter-sectoral, and inter-departmental or inter-ministerial levels.
2. monitoring and evaluating the implementation of the basic policies from these documents and systemic solutions.
3. adapting or amending policy objectives and implementing measures with respect to changing circumstances in the domestic and/or international environment.

- ✓ Co-financed by MKGP, MOP and ARRS

12 ongoing projects (2019 - 2021)

- ✓ 8 x CRP Zagotovimo.si hrano za jutri (MKGP, ARRS)
 - adapted sustainable agriculture,
 - development of new result-based agri-environmental measure,
 - development of methodology for evaluation and mapping ecosystem services,
- ✓ 2 x CRP (MOP, MKGP, ARRS)
 - ✓ designing monitoring of pollinators
 - ✓ researching pollution of the habitat of the black proteus (HaČloRi)
- ✓ 1 x CRP (MOP, MKGP, MK, ARRS)
 - ✓ digitalization of landscape types

1,4 mio €

Project structure

Concrete conservation actions

A.1 & C.1 concrete conservation measures in IP project areas

E.4 Communication support of concrete conservation actions on pilot areas

A.2 & C.2 prevention of conflicts with managers of cultural heritage on the case of bat guano

Strengthening the management of Natura 2000

A.3 & C.3
Update and renewal of Natura 2000 Management Programme with special focus on new financial period 2021-2027

A.4 & C.4 Enhanced implementation of PUN 2000 measures on the field

A.6, C.7 & C.8
Development of a National monitoring scheme

A.5 & C.5 Training of employees for better management of natura 2000

C.6 Enhancement of warden service for direct surveillance in nature

Cross-cutting actions

Public awareness and dissemination on National level (E.1, E.3, E.5, E.6)

D. MONITORING OF THE IMPACT OF PROJECT ACTIONS

F. Project Management and monitoring of project progress

Monitoring of project progress

- ✓ table of milestones and deliverables
- ✓ short monthly reports by all partners
- ✓ deliverables & actions reports
- ✓ annexes to financial reports (spending by actions)
- ✓ additional activity reports
- ✓ PPT for the monitoring visit
- ✓ inputs for interim reports
- ✓ KPI

Samodejno shranjevanje 20211116 IP LIFE časovnica mejniki_arnandma_partnerjem_eng - Shranjeno 150

Datoteka Osnovno Vstavljanje Postavitev strani Formule Podatki Pregled Ogled Dodatki Pomoč

Prilepi Kopiraj Preslikovalnik oblik Odlžišče Piskava Poravnava Številca










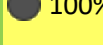



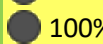

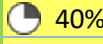











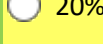


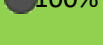





Calibri 14 A⁺ Prelomljeno besedilo Splošno Pogojno oblikovanje Oblikuj kot tabelo Vstavi Izbrani Oblika Samodejno Zapolni Počisti












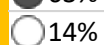














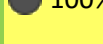
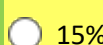



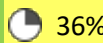













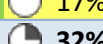
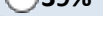
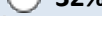
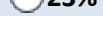







A168 NNS

what	IP pillar	action	progress indicator	Name of the deliverable/milestone	activity coordinator (individual / Name Surname)	partner responsible for the MOF / Name Surname	contact at the MOF / Name Surname	ACTUAL (anticipated) BEGINNING of activities under the Amendment	Reported completion in AMENDMENT	Actual completion of activities	STATUS 1.10.2021	ACHIEVED	NOTE SITUATION TODAY (1.10.2021) - taken from the Interim report for CMRS and updated according to the situation (evaluate achievement - quantify if possible)
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.1	Deliverable	4 concrete conservation measures plans consolidated and prepared (one for each of IP project areas) for implementation	MOF / Maja Cipot	KUZS, KUZ PUG, KUZ LI, and KUZ PUG	Maja Cipot	Jan.19	Dec.22		In implementation		
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.1	Deliverable	Report of detailed analysis of the situation on agricultural land use for 2 project areas (separately for specific Natura 2000 sites) made by KUZS, KUZ PUG & KUZ LI	KUZS / Maja Cipot	KUZS, KUZ PUG, KUZ LI, and KUZ PUG	Maja Cipot	Feb.19	Dec.20	Jan.21	Fully implemented (completed)	YES	A common report - analysis of initial situation in agriculture (with analysis of land use change, number of farms, number of livestock, etc. over 50 years) was prepared for 2 project areas (separately for specific Natura 2000 sites) made by KUZS, KUZ PUG & KUZ LI.
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.1	Deliverable	Report of detailed analysis of the situation on forestry management for 2 project areas (separately for specific Natura 2000 sites) made by ZRSV and GIS	ZRSV / Gregor Denes	ZRSV and GIS	Maja Cipot	Oct.19	Feb.20	Feb.21	Fully implemented (completed)	YES	One common report on the state of forests in forested IP areas was prepared for Natura 2000 areas Lica pri Poljčanah, Boč-Holice-Donaška gora and Karmniško-Dravinjska dolina & Grinčevci by ZRSV and GIS.
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.1	Deliverable	Report of detailed analysis of the situation on nature conservation measures for all 4 project areas (separately for specific Natura 2000 sites) made by ZRSV	ZRSV / Maja Cipot	ZRSV	Maja Cipot	Apr.19	Jan.20	Jan.20	Fully implemented (completed)	YES	All together 4 reports were prepared by ZRSV - one for each Natura 2000 area, with regard of overlapping areas Dravinjska dolina & Karmniško-Dravinjska dolina & Grinčevci, so 3 reports were prepared for these areas.
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.1	Deliverable	Report of detailed analysis of the situation on water management for 2 project areas (separately for specific Natura 2000 sites) made by DRISV	DRISV / Peter Prosenic	DRISV	Maja Cipot	Mar.19	Dec.20	Feb.21	Fully implemented (completed)	YES	All together 3 report analysis and assessment of the condition of the project areas from the point of view of water management were made by DRISV: one on area Dravinjska dolina and Dravinje, one for Natura 2000 area Volčevke, and one for Natura 2000 area Lica pri Poljčanah.
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.1	Milestone	Potential locations from management point of view for concrete conservation measures identified	MOF / Maja Cipot	KUZS, KUZ PUG, KUZ LI, ZRSV, GIS, DRISV	Maja Cipot	Sep.19	Dec.20	Jan.21	partially implemented (completed)	YES/NO	Only draft proposals of implementation measures and locations were prepared by each partner (for sectors, species & HT) - detailed proposals will be prepared with partners and drafting of implementation measures plan (sub-action A.1.3.1) - this change was included in the amendment.
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.2	Deliverable	4 reports of baseline situation on state of species and habitat types with proposal of the best suitable locations/areas for concrete conservation measures on each IP project area (separately for specific Natura 2000 sites) - final report	MOF / Maja Cipot	KUZS, KUZ PUG, KUZ LI, DRISV, ZRSV	Maja Cipot	Jan.19	Dec.20	Jan.21	Fully implemented (completed)	YES	Separate reports from each partner / expert were prepared for each HT & HT species and for individual Natura sites in the pilot areas of the project. We did not for each area - they will be included in the products of campaign A.1.3.1 - action plans.
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.2	Deliverable	Reports on baseline situation on state of 21 specific species/groups with proposal of the best suitable locations/areas for concrete conservation measures for project separately for specific Natura 2000 sites - final reports	MOF / Maja Cipot	KUZS, KUZ PUG, KUZ LI, DRISV, ZRSV	Maja Cipot	Jan.19	Dec.20	Jan.21	Fully implemented (completed)	YES	Altogether 43 reports of initial situation of species & habitat types in specific Natura 2000 areas will be prepared - 14 from DRISV (of which additionally one on Volčevke area, not previously planned in G.A.1.1.11 from GIS, 9 from UL, common reports for butterfly species for Lica pri Poljčanah, Boč-Holice-Donaška gora and Karmniško-Dravinjska dolina & Grinčevci by GIS & ZRSV).
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.2	Deliverable	Results of baseline studies on 4 key target sites (P1) on habitat types (imagery) and species findings on IP project areas published on project website - final results	MOF / Maja Cipot	KUZS, KUZ PUG, KUZ LI, DRISV, ZRSV	Maja Cipot	Jan.19	Dec.20	Jan.21	Fully implemented (completed)	YES	Results presented in workshops A.1.3.1 and included in the final reports of action A.1.3.1. Spatial information is also attached to the reports.
IP PRO	1. CONCRETE CONSERVATION ACTIONS	A.1.2	Deliverable	Baseline situation of 26 species and 2 forest and 4 grassland types with proposal of the best suitable locations/areas for concrete conservation measures for project separately for specific Natura 2000 sites - final reports	MOF / Maja Cipot	KUZS, KUZ PUG, KUZ LI, DRISV, ZRSV	Maja Cipot	Jan.19	Dec.20	Jan.21	Fully implemented (completed)	YES	More than 700 field work days were performed by DRISV, KUZS, KUZ PUG, KUZ LI, GIS and ZRSV to analyze and monitor initial situations for 27 species & mapping of forest and grassland types in specific Natura 2000 areas.

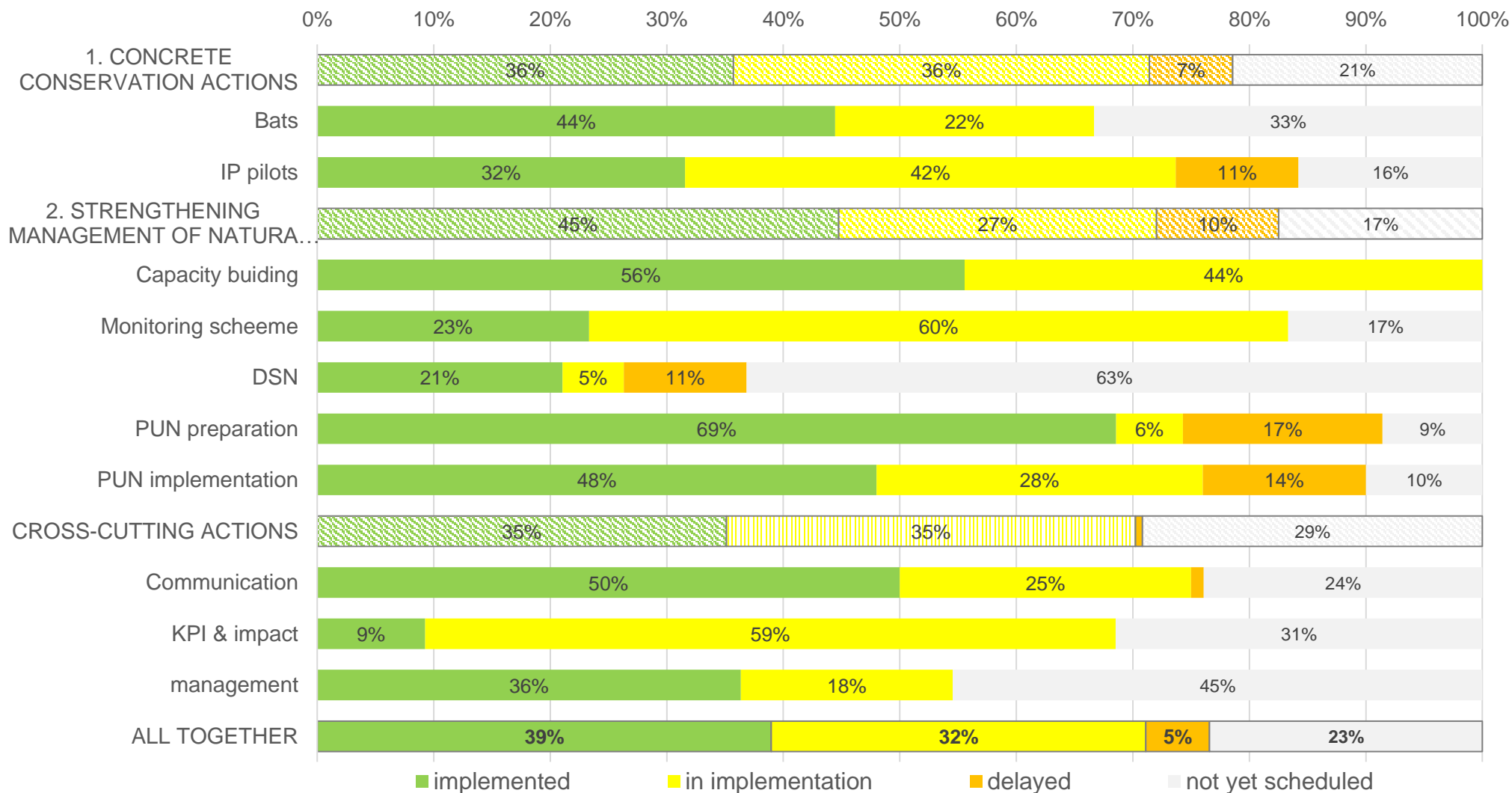
izdelki mejniki_202111118 pregled Listi

Level of implementation of deliverables, milestones & expected results

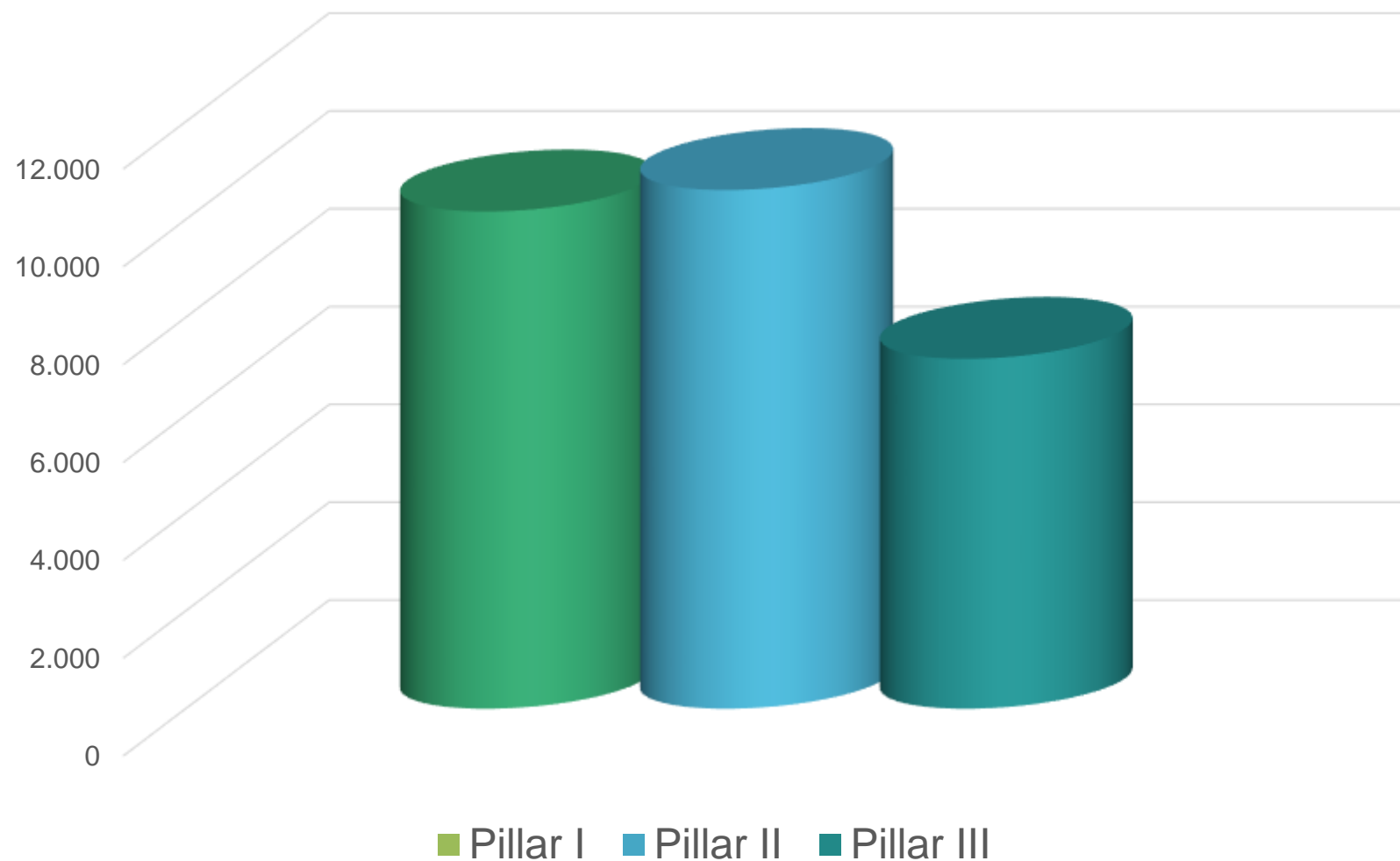
Pillar/ Action	impleme nted	in implement ation	delayed	not schedule d yet
1. CONCRETE CONSERVATION ACTIONS	 36%	 36%	 7%	 21%
A.1.1	 100%			
A.1.2	 100%			
A.1.3	 38%	 13%	 50%	
A.1.4		 100%		
A.2	 100%			
C.1				 100%
C.1.1				 100%
C.1.2		 100%		
C.1.3		 100%		
C.1.4		 100%		
C.2		 40%		 60%
2. STRENGTHENING MANAGEMENT OF NATURA 2000	 45%	 27%	 10%	 17%
A.3	 100%			
A.4.1	 80%		 20%	
A.4.2	 100%			
A.4.3	 40%	 20%	 40%	
A.5	 100%			
A.6	 100%			
C.3.1			 100%	
C.3.2		 50%	 50%	
C.3.3				 100%
C.3.4	 100%			

Pillar/ Action	impleme nted	in implement ation	delayed	not schedule d yet
C.4.1	 22%	 56%		 22%
C.4.2		 63%		 38%
C.4.3		 50%	 50%	
C.5		 100%		
C.6	 21%	 5%	 11%	 63%
C.7		 86%		 14%
C.8				 100%
Cross-cutting actions	 35%	 35%	 1%	 29%
D.1.1		 76%		 24%
D.1.2				 100%
D.1.3				 100%
D.2	 67%			 33%
D.3	 50%	 50%		
D.4		 100%		
D.5	 44%			 56%
E.1	 55%	 15%		 30%
E.2	 100%			
E.3	 64%	 36%		
E.4		 88%		 13%
E.5	 35%	 26%		 39%
E.5.4	 25%	 25%	 25%	 25%
E.6		 100%		
F.1	 38%	 19%		 44%
F.2	 33%	 17%		 50%
Summary	 39%	 32%	 5%	 23%

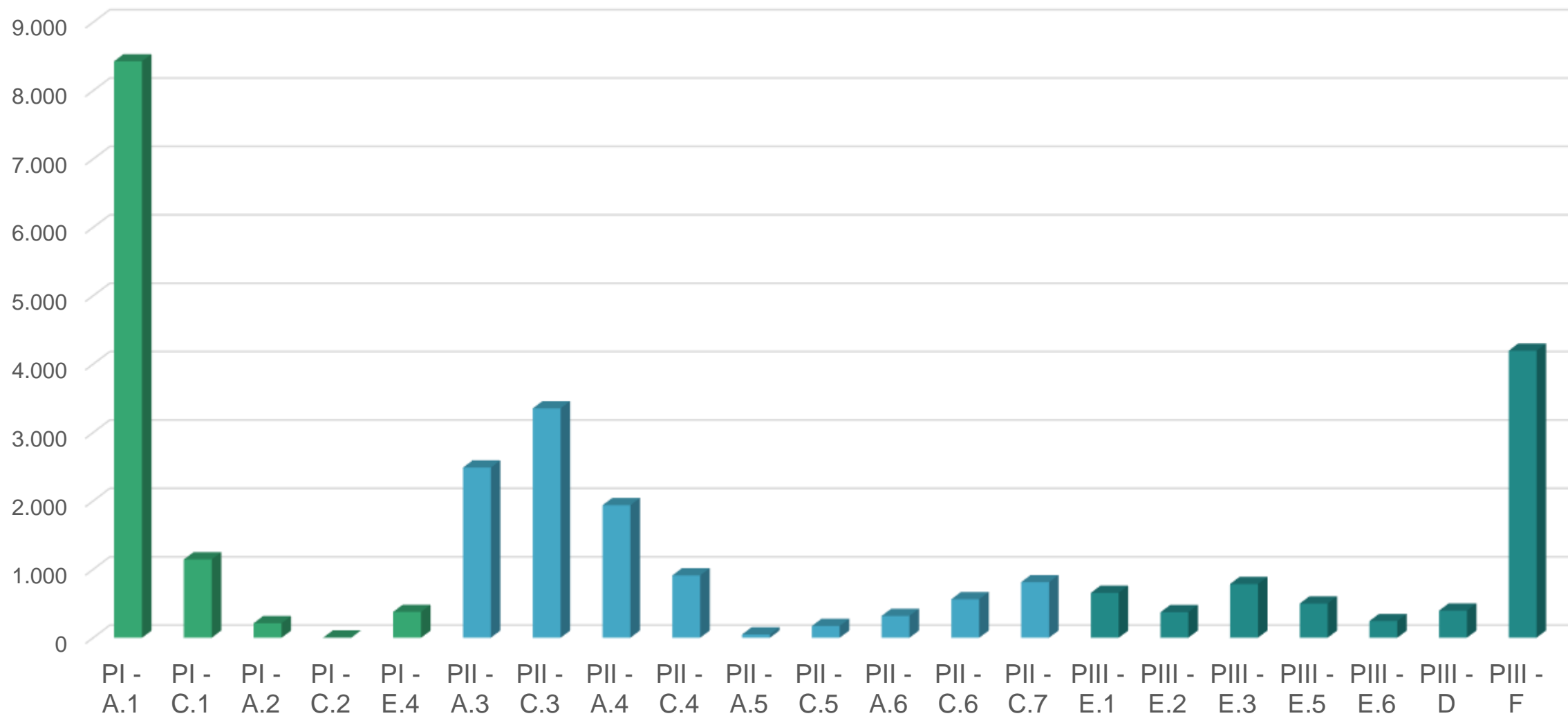
Level of implementation of deliverables, milestones & expected results

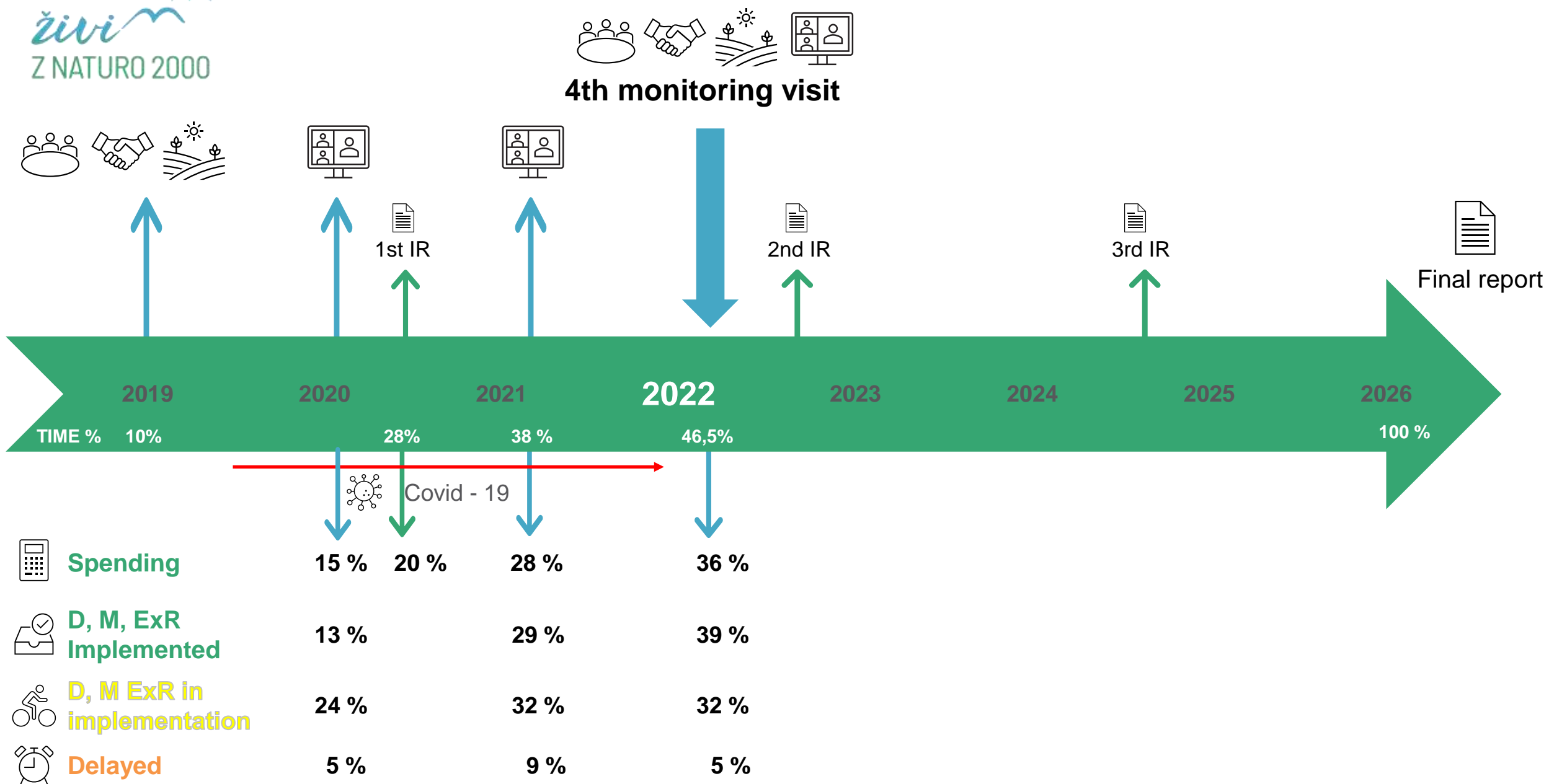


Workload - pillars (09/2018 - 03/2022, man-days)



Workload - actions (09/2018 - 03/2022, man-days)





Progress of project actions



1st pillar

CONCRETE CONSERVATION ACTIONS



A.1 ELABORATION OF IMPLEMENTATION PLANS FOR CONCRETE CONSERVATION PROJECTS

1. Sub-Action A.1.1: Initial situation of nature conservation measures and land use of each “project area”
 - fully implemented
2. Sub-Action A.1.2: Species and habitat type’s initial situation analysis
 - fully implemented
3. Sub-Action A.1.3: Consultations in drafting of implementation measures plan
 - in implementation – delayed
 - Grasslands- finished July 22
 - Waters – July 2022
 - October 22 – forests
 - Dec 22 – Istra,
 - in implementation
4. Sub-Action A.1.4: Permit procedures

C.1 IMPLEMENTATION OF CONCRETE CONSERVATION MEASURES IN IP PROJECT AREAS

5 out of 6 priority planned projects from PUN App. 6.4 are in implementation

1. Improvement of conservation status of species and habitat type in Boč Landscape Park (SAC Boč – Haloze-Donačka gora)
C.1.3 pilot area Grasslands & forests of Štajerska region
 - ✓ **in implementation** activities for great pasque flower (*Pulsatilla grandis*)
 - ✓ **in implementation** measures in forest for forest habitat types,
 - for other forest species not started yet (implementation of action A.1.3 ongoing);
2. Improving the conservation status of species and habitat types of wetlands and cultural landscape (SAC Dravinja s pritoki, SPA Dravinjska dolina)
C.1.3 on pilot area Grasslands & forests of Štajerska region
 - ✓ in implementation activities for butterflies & grasslands;C.1.4 on pilot area Waters of Štajerska region
 - ✓ **in implementation** removal of invasive alien plant species - IAS,
 - for other water species not started yet (implementation of action A.1.3 ongoing);
3. Restoration of wetland habitats at Ličenca pri Poljčanah (SAC Ličenca pri Poljčanah)
C.1.3 on pilot area Grasslands & forests of Štajerska region in implementation
 - ✓ **in implementation** as activities for butterflies & grasslands and
 - ✓ **in implementation** measures in forest for forest habitat types,
 - for other forest species not started yet (implementation of action A.1.3 ongoing);
4. Nature conservation and development compliant with nature in the Dragonja River Valley (SAC Slovenska Istra)
C.1.1 on pilot area Slovenska Istra
 - not started yet (implementation of action A.1.3 is ongoing)
5. Preservation of nature as a foundation of green tourism in the planned Kamnik-Savinja Alps Regional Park Alpe (SAC Kamniško - Savinjske Alpe, SPA Grintovci)
C.1.2 on pilot area KSA-Grintovci
 - ✓ **in implementation** as activities for Marsh gladiolus (*Gladiolus palustris*) on Kamniški vrh
 - ✓ **in implementation** measures in forests for capercaillie in Grintovci
 - for other bird species & beetles not started yet (implementation of action A.1.3 is ongoing)
6. Volčke: the world between insects and the town of Celje (SAC Volčke)
C.1.3 on pilot area Grasslands & forests of Štajerska region
 - ✓ **in implementation** as activities for butterflies & grasslandsC.1.4 on pilot area Waters of Štajerska region
 - not started yet (implementation of action A.1.3 ongoing);

Grasslands of Štajerska Region



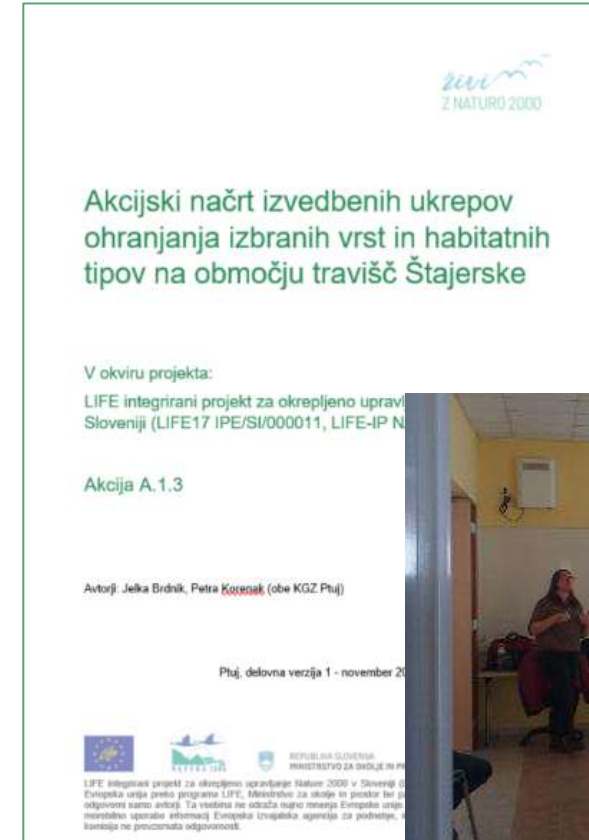
A.1.3 Consultations in drafting of implementation measures plan for pilot area Grasslands of Štajerska Region

Deliverables:

- **4 consolidated concrete conservation measures plans prepared - Pilotno območje travišča Štajerske**
 - All together > 15 workshops, meetings & field trips for the coordination of measures among partners were carried out
 - a proposal for the implementation of activities for farmers has been made & published online & presented to farmers

Milestones:

- **4 Implementation measure plans presented and communicated with landowners, local communities and interested public**
 - action plan
 - 4 workshops with landowners (feb, mar 22)



C.1.3 Concrete conservation measures on grasslands of Štajerska Region

Results in 2022:

- communication with farmers (222 farmers received written notice);
- 78 farms were visited this year (manage 137 ha of priority areas);
- a public call has been published (april 22) - 15 farmers applied by 20.6.22 (24,60 ha);
- interest for integration into agri-environmental schemes for the protection of butterflies or habitats has increased;
- meeting in the Municipality of Celje and Makole;
- arrangement with Farmland and Forest Fund of the Republic of Slovenia.



C.1.3: great pasque flower (*Pulsatilla grandis*) in Natura 2000 Boč-Haloze-Donačka gora

Beneficiaries participating: ZRSVN, KGZ Ptuj, UL
Biotehniška fakulteta, Zavod Štirn, MOP



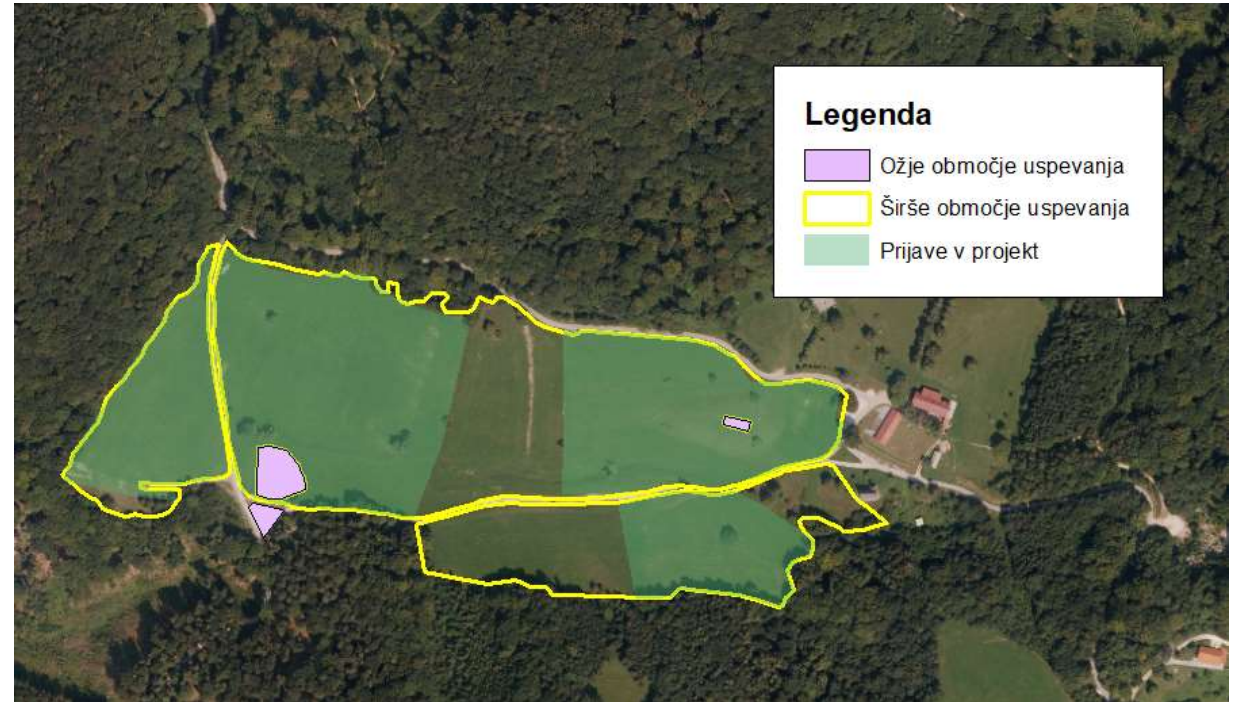
C.1.3: Great pasque flower (*Pulsatilla grandis*) in Natura 2000 area Boč-Haloze-Donačka gora

All 3 farmers on Bočka raven will take part in conservation measures:

- 1 farmer applied for both KOPOP and project measures (**3,21 ha**)
- 1 farmer applied for project measures (**3,70 ha**)
- 1 farmer applied for KOPOP (**2,12 ha**)

Communication plan was prepared – implemented by Štirna.

Further measures need to be taken in the near future (road locks, enlargement of habitat).



Grassland included in project measures.

Contract between Alpine association Poljčane and ZRSVN

- Contract signed on 7th of April 2022:
 - Detailed instructions for proper management: mowing, grazing...
 - Scientific and communication support
 - Further measures need to be taken in the near future (road locks, enlargement of habitat)



Pilot area Kamniško Savinjske Alpe & Grintovci



C.1.2

Concrete conservation actions for Marsh gladiolus (*Gladiolus palustris*) in Natura 2000 site Kamniško- Savinjske Alpe

Beneficiaries participating in implementation: ZRSVN, KGZ
Ljubljana, UL Biotehniška fakulteta, Zavod Štirn, MOP



C.1.2: Meetings with stakeholders

- 2 meetings with farmer and landowner, setting the pasture fence (1. 4. and 13. 5. 2022)
 - No grazing between 1st of may and 30 th of june in 2021 and 2022
 - 2 plots of cca. 500 m² surface: fence installation
- Purpose: appearance of marsh gladiolus, difference grazed vs. non-grazed, monitoring of habitat



C.1.2: Meetings with stakeholders

- Meetings with Alpine association (11. and 20. 4. 2022)
 - Routing hikers away from the pasture, directing them on a certain path
 - defining location of the 4 information tables for hikers,
 - gathering permits
 - setting of the information table in progress



Gorski pašniki pod Kamniškim vrhom

Kamniško-Savinjske Alpe so del evropskega
naravovarstvenega omrežja Natura 2000.

Območje ima zelo bogato floro in favno, med katerimi so pionirski gozdovi črnega bora
ter pomembni deleži slovenskih populacij malega skovika, divjega petelina, ruševca in
belke. V gozdovih so rastišča lepega čveljca, na travniščih pa rastišča močvirskega
mečka. V višjih legah raste Bertolonijeva orlica in Zoisova zvončica.






Močvirski meček Črasti modvedek Zoisova zvončica Člunjev svič

Planinci lahko prispevamo k ohranjanju gorskih pašnikov

Delovanje erozije je najbolj vidno na gručnatih stezah na gorskih pašnikih.
Narava in kmetje tako izgubljajo površine. Kako lahko planinci pri tem pomagamo?

Pri hoji po planinskih pašnikih vas prosimo, da:

izbirate označene planinske poti

hodite ob robu pašnikov in izbirate steze, ki najmanj posegajo v pašnik

pse vodite na povodcih in se izogibate stiku z živalmi na paši

skrbno uporabljate pašno in drugo infrastrukturo na poti

Hvala, ker pomagate ohranяти gorske pašnike in pestro naravo Kamniško-Savinjskih Alp!









LIFE Integrativni projekt za izboljšanje upravljanja Natura 2000 (LIFE17/05/SI/000001) in izboljšanje upravljanja Evropske unije v okviru programa LIFE. Hvala vam za sodelovanje in pomoč. Za vse informacije in pomoč pri prijavi projekta, se obrnite na lokalno skupnost. Na vse informacije in pomoč pri prijavi projekta, se obrnite na lokalno skupnost. Za vse informacije in pomoč pri prijavi projekta, se obrnite na lokalno skupnost.

FORESTRY ACTIONS

Authors:

**G. Danev, V. Babij, M. Guček (ZGS)
L. Kutnar, E. Kozamernik, A. Simčič et al. (GIS)**

Overview A.1.1, A.1.2

Sub-Action A.1.1: Initial situation of nature conservation measures and land use of each “project area”

*Performed: **ZGS** and **GIS***

Finished: February 2020

A.1.2 Species and habitat type initial situation analysis

Selected forest habitat types - 91E0* and 9180*

*Performed: **ZGS** and **GIS***

*Finished: **December 2020***



A.1.3. Consultations in drafting of implementation measures plan

List of project activities performed:

- Deliverable (**November 2020 – end in September 2022**):

A.1.3 – Deliverable:

4 consolidated concrete conservation measures plans prepared (one for each of IP project areas).

2 Delivered and under implementation



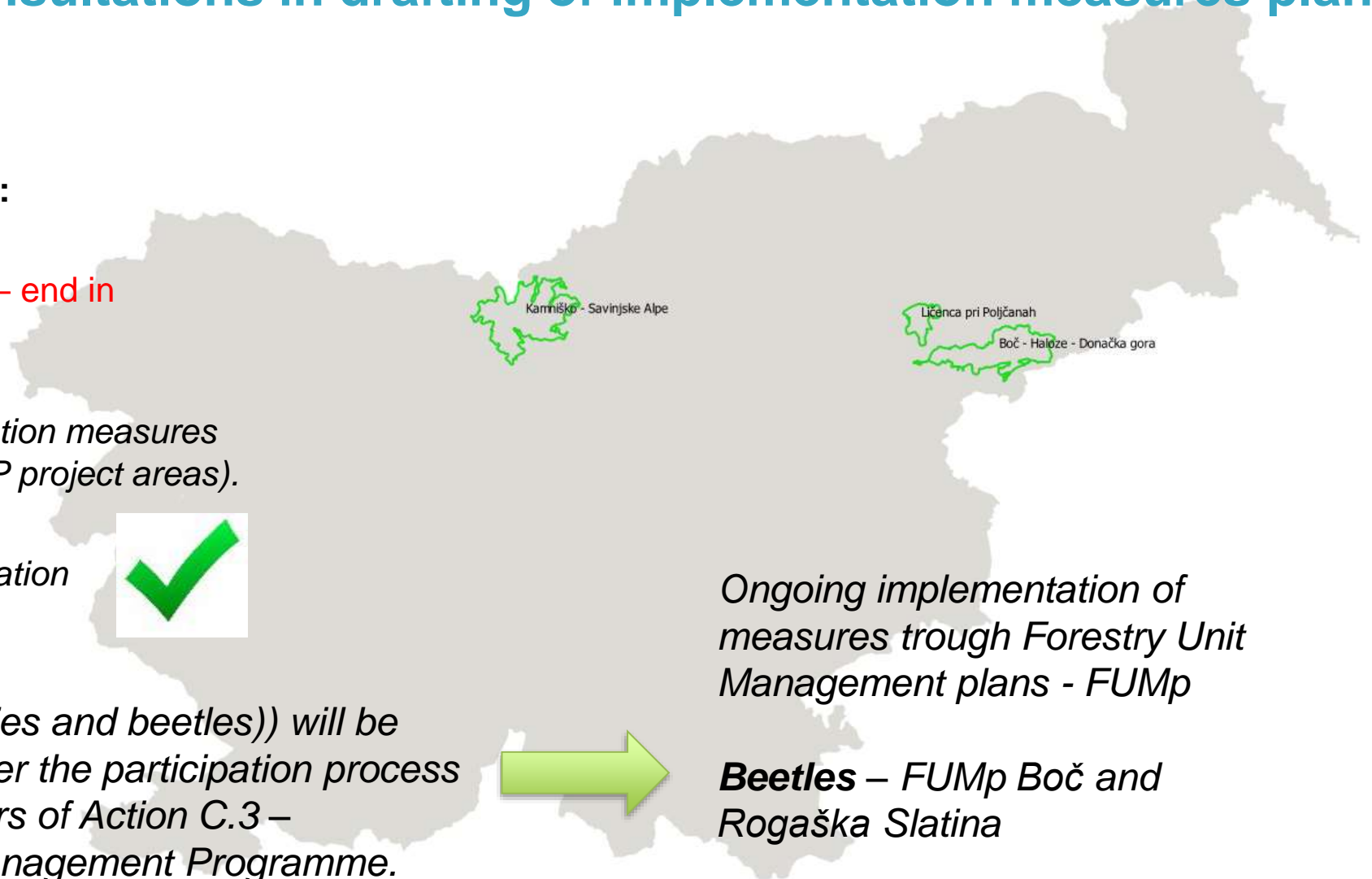
2 Action plans (other bird species and beetles)) will be prepared and synchronized after the participation process with forestry and hunting sectors of Action C.3 – Preparation of Natura 2000 Management Programme.



Ongoing implementation of measures trough Forestry Unit Management plans - FUMp

Beetles – FUMp Boč and Rogaška Slatina

Birds of KSA and Grintovci – FUMp Nazarje



C.1.2 Concrete conservation measures in Kamniško-Savinjske Alpe and Grintovci 2021-2022



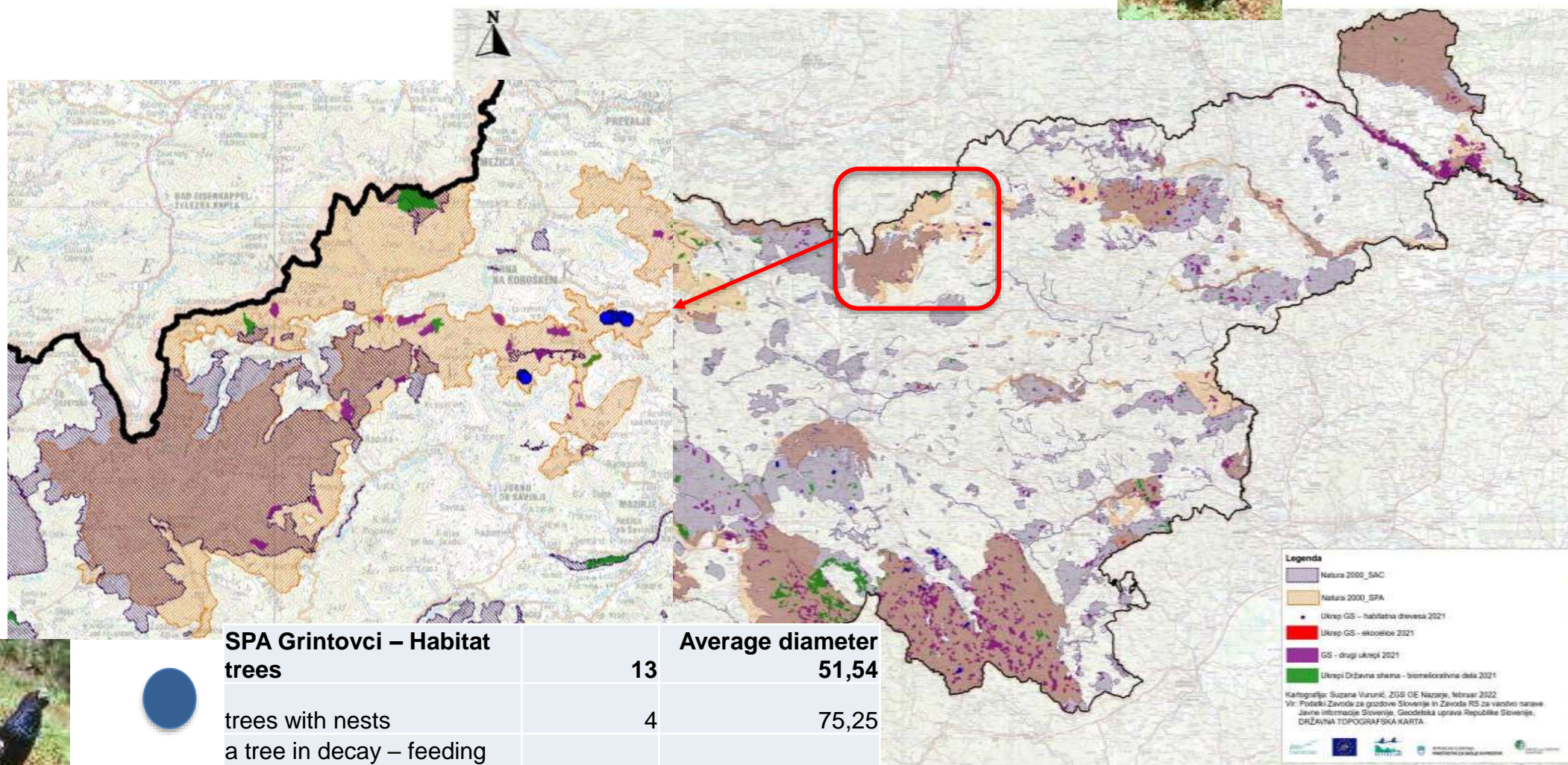
Measures for Capercaillie (*Tetrao urogallus* L.) in FUMp
Solčava, Luče in Ljubno:

CODE OF MEASURE	NAME OF THE MEASURE	Q	UNIT
613	Planting trees for birds feeding	70,00	no
652	Ecocells with measures - silviculture	0,60	ha
618	Maintainance of trees for birds feeding	70,00	no
613	Planting trees for birds feeding	3,00	no
613	Planting trees for birds feeding	4,00	no
651	Ecocells with measures - cutting	158,99	m3
651	Ecocells with measures - cutting	79,89	m3
651	Ecocells with measures - cutting	131,62	m3
670	Pušcanje stoječe biomase	26,82	m3
651	Ecocells with measures - cutting	31,84	m3
652	Ecocells with measures - silviculture	0,80	ha
652	Ecocells with measures - silviculture	1,70	ha
651	Ecocells with measures - cutting	20,84	m3

Decreasing negative effects on Capercaillie:

- Long-term and 2 years Hunting management plans are decreasing the population numbers of wild boar and small carnivores in the habitat of Capercaillie
- Prohibited feeding of wild boars above 1.200 m

C.1.2 Concrete conservation measures in Kamniško-Savinjske Alpe and Grintovci 2021-2022



SPA Grintovci – Habitat trees

13

Average diameter
51,54

trees with nests

4

75,25

a tree in decay – feeding trees

9

41,00



C.1.3 Concrete conservation measures on forests of Štajerska Region 2021-2022

Measures from AP for HT 9180* in Natura 2000 site **Boč-Haloze-Donačka gora**

¹ ID: (FUMp: B=Boč, RS=Rogaška Slatina, L=Lešje) ² GGO: 12=Maribor, 09=Celje; ³ KO: 783=Studenice, 1166=Čača vas, 502=Stoperce

ID ¹	GGO ²	ODSEK	KO ³	LAND PARCEL	OWNERSHIP	AREA (ha)	STATUS of activity in AP 13.6.2022
B1	12	19013B	783	322/10	state	1,97	In process, performed felling in the field marked the course of the fence
B2	12	19015A	783	322/10	state	1,21	Measure 653: Ecocell, integrated in FUMp Boč, in the field still not marked
B3	12	19015C	783	322/10	state	0,97	In plan for 22/23
B4	12	19015D	783	322/10	state	0,52	Fence maintenance and care of the young was carried out
RS1	09	40364A	1166	1144/1	state	0,53	In plan for 22/23
RS2	09	40364A	1166	1144/1	state	1,97	In process
RS3	09	40364A	1166	1144/1	state	1,47	In plan for 22/23
RS4	09	40362A	1166	1144/1	state	0,92	In process
L1	12	30036B	502	720/17	private	3,37	care of the young was carried out
L2	12	30037B	502	602/7	private	1,64	performed
L3	12	30037B	502	602/7	private	0,90	performed



C.1.3 Concrete conservation measures on forests of Štajerska Region 2021-2022

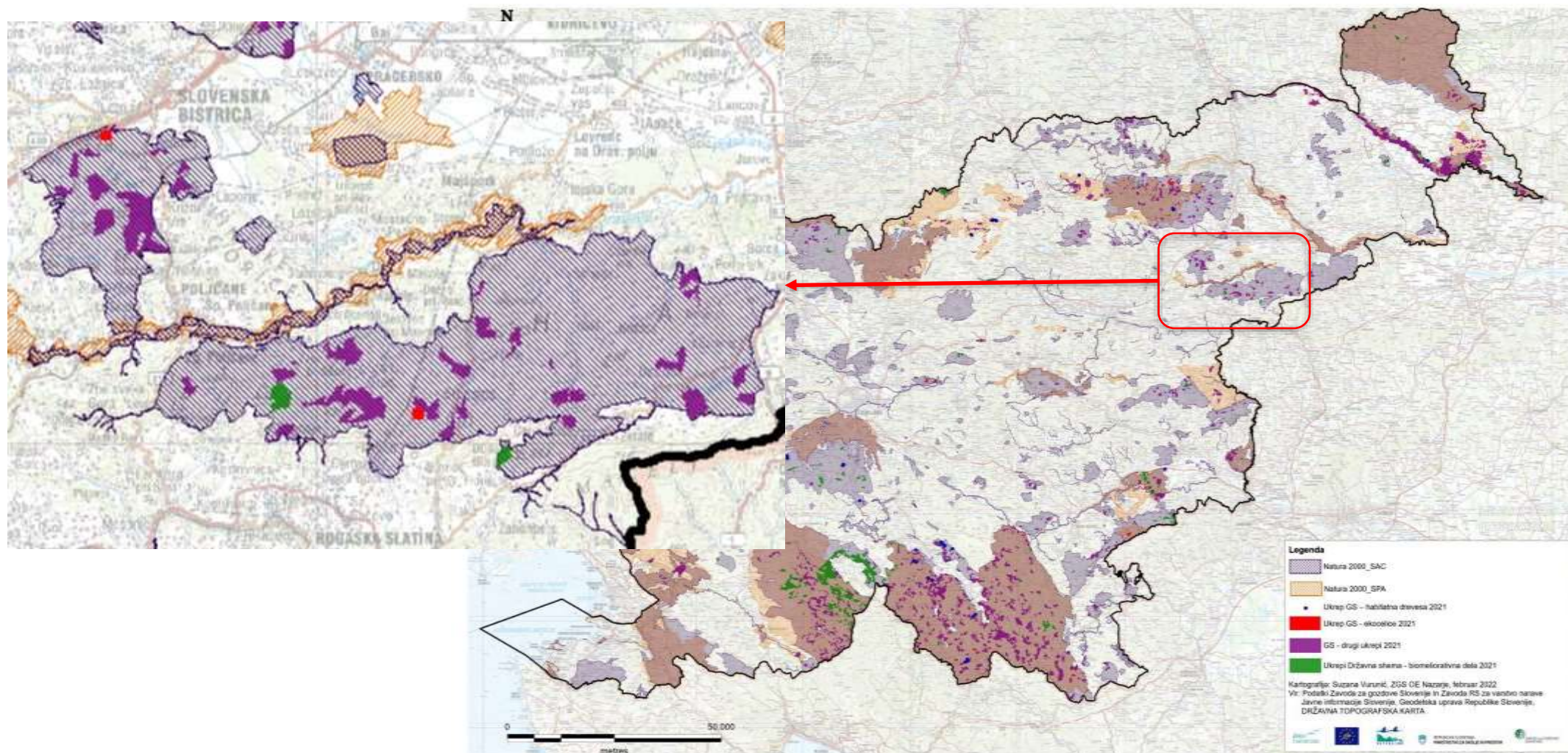
Status of Conservation measures for **HT 91E0* Alluvial forests** with *Alnus glutinosa* in and *Fraxinus excelsior* ... in project area **Ličenca pri Poljčanah**

ID	GGO*	ODSEK	KO	LAND PARCEL	OWNERSHIP	AREA (ha)	STATUS of activity in AP 13.6.2022
VB19	09	39047E	1111 1120	695 del 125 in 128/2	private	2,16	Measure 653: Ecocell is arranged – contract in signature process
JK15	12	22039I	766	289	private	0,84	Measure 653: Ecocell is arranged – contract under preparation
JK23	12	22037C	765	1225/1	private	0,65	Measure 651: maintaining the biotope performed

* GGO: 12=Maribor, 09=Celje



C.1.3 Concrete conservation measures on forests of Štajerska Region 2021-2022



IP area Slovenska Istra

Beneficiaries participating in implementation:
KGZ Nova Gorica, ZRSVN, UL Biotehniška
fakulteta, CKFF, Zavod Štirna, MOP

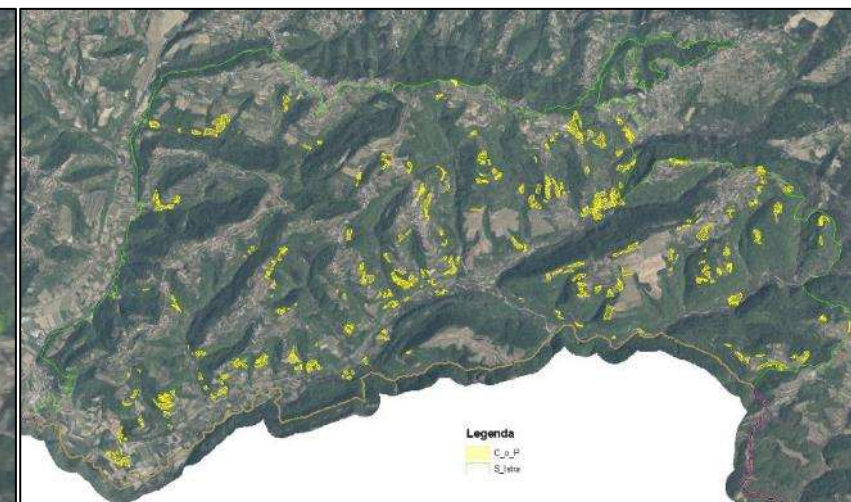
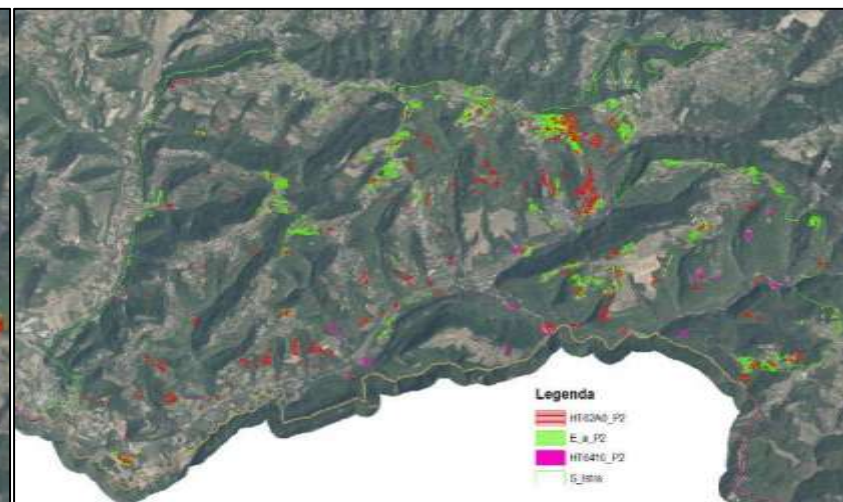
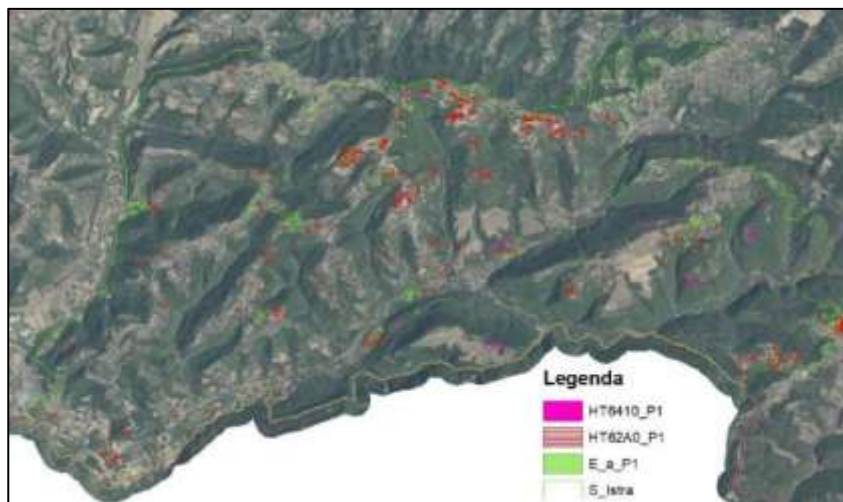
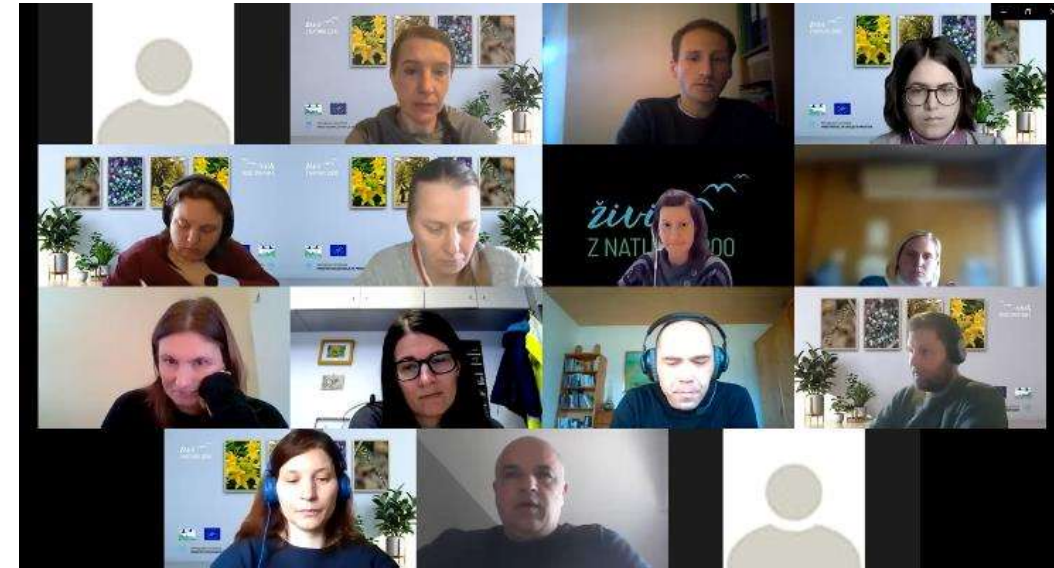


A.1.3 Consultations in drafting of implementation measures plan for IP area Slovenska Istra

Deliverable - Concrete conservation measure plan

Activities performed:

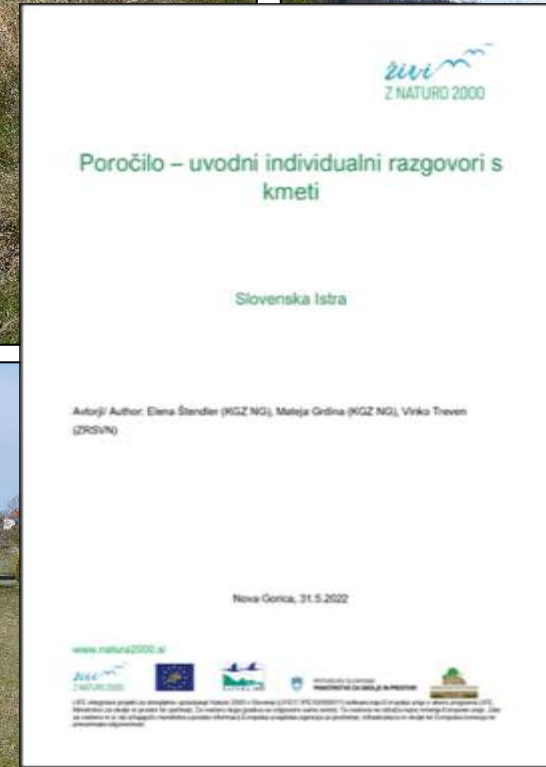
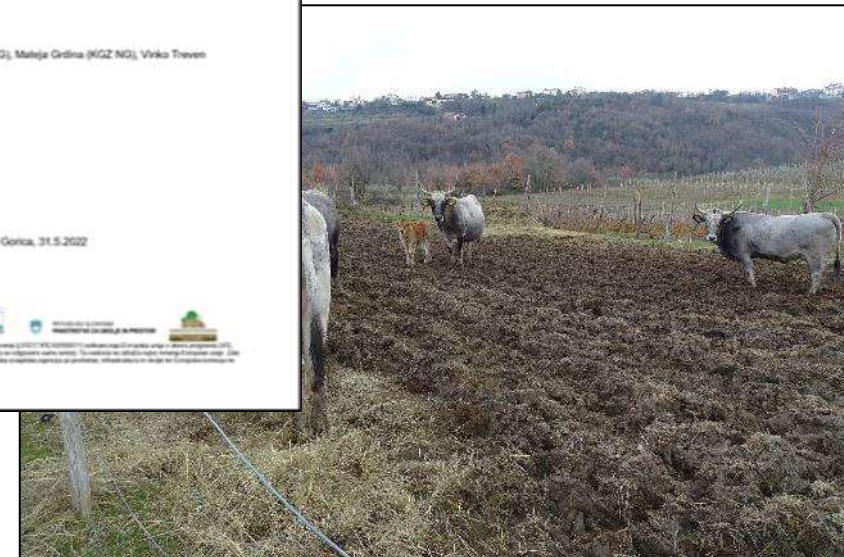
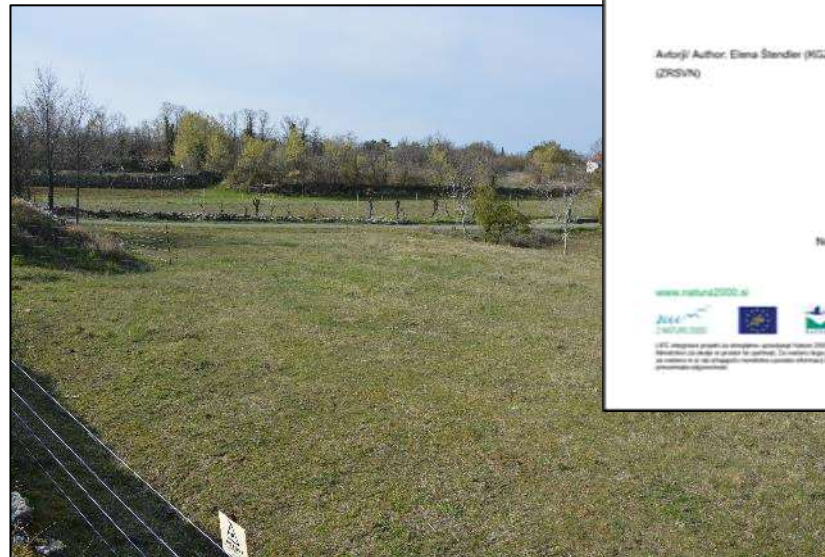
- several coordination meetings with ZRSVN
- 2 x – 4 - hours online workshop (21.1.2022 & 25.4.2022) – coordination meetings
 - presentation of identification procedure and coordination of priority locations, ownership structure analysis & key project indicators for *E. aurinia* & *C. oedippus*
 - presentation of typical farms in the area, summary of the introductory meeting with the Municipality of Koper and introductory interviews with farmers, presentation of establishing new plantations and olive grove management
 - presentation of proposed measures for specific grassland species and habitat types, following discussion with participating beneficiaries



A.1.3 Consultations in drafting of implementation measure plan for IP area Slovenska Istra

• Introductory interviews (6) - farmers with priority areas (Report):

- Livestock is a key management factor
- To find out their needs and expectations
- Grasslands & livestock (also mowing the grass – fodder preparation)
- Grasslands & mowing the grass (without livestock)
- Permanent crops & grasslands (minor area)
- Interest in participating in the project
- Conclusions (in common):
 - no use of fertilizers, pesticides
 - Beginning of grassland mowing is after 1st June, 1x year, hay bales
 - use of mulcher in early spring or late autumn – to cut & grind woody vegetation shoots and shrubs to prevent overgrowth
- 2 farms with priorities entered in agri-environmental schemes (HAB) - special grassland habitats

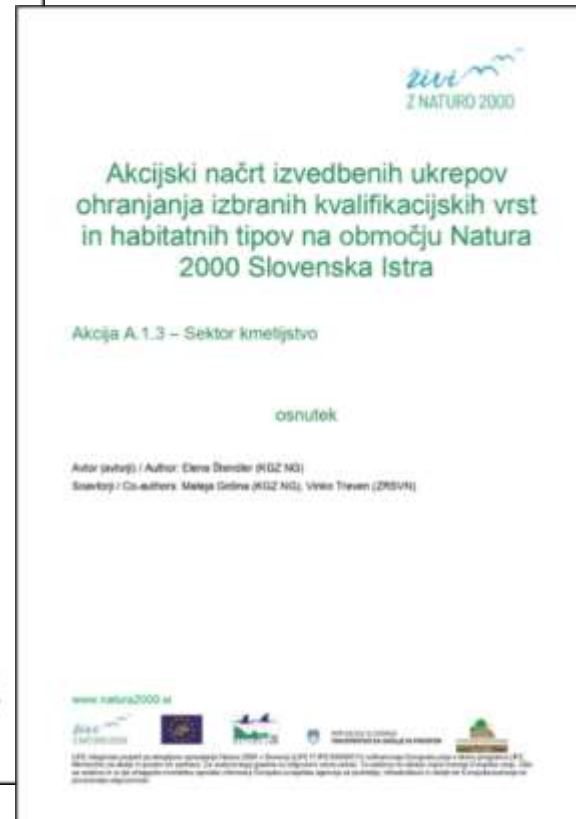
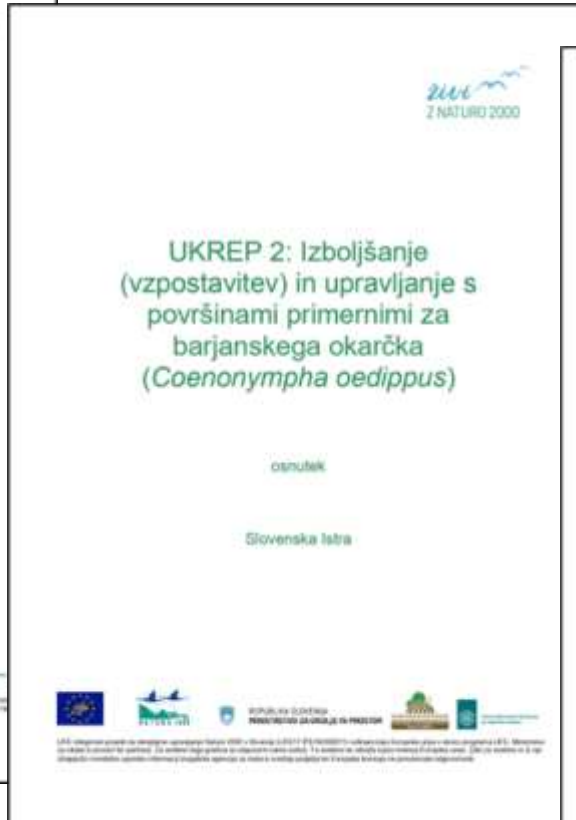
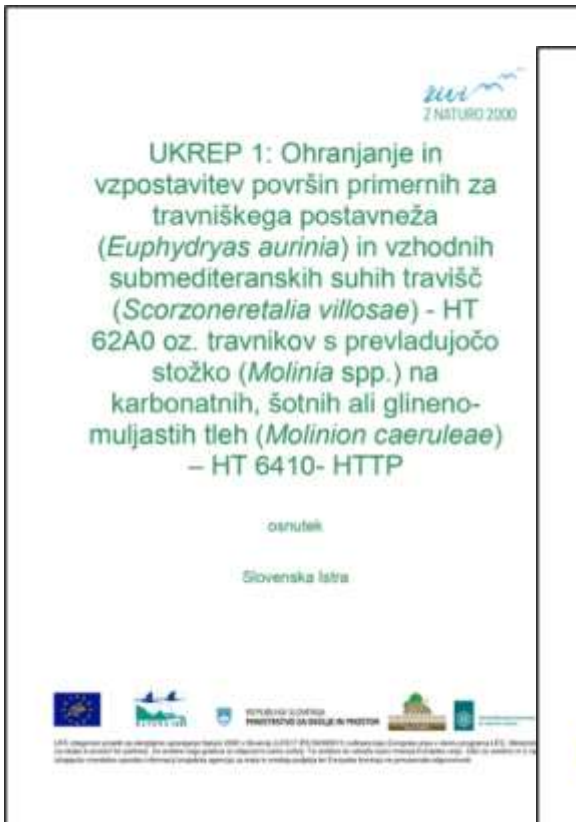


reviewing/testing the feasibility of certain action requirements: measuring the average height of grass suitable for voluminous fodder, reviewing average grass volume, review of overgrown and priority locations - potential areas suitable to be included in this project, exploring butterfly & plant species diversity, ect.



A.1.3 Consultations in drafting of implementation measures plan for IP area Slovenska Istra

- A draft of measures for grassland butterfly species and habitat types in coordination with experts
- A draft of conservation measure plan is in preparation
- Study visit of a best practice example within projects Dinalpconnect and ZaKras (Interreg Adrion)



A.1.3 Consultations in drafting of implementation measures plan for IP area Slovenska Istra

Milestone - *implementation measure plans presented and communicated with landowners, local communities and interested public*

Activities performed:

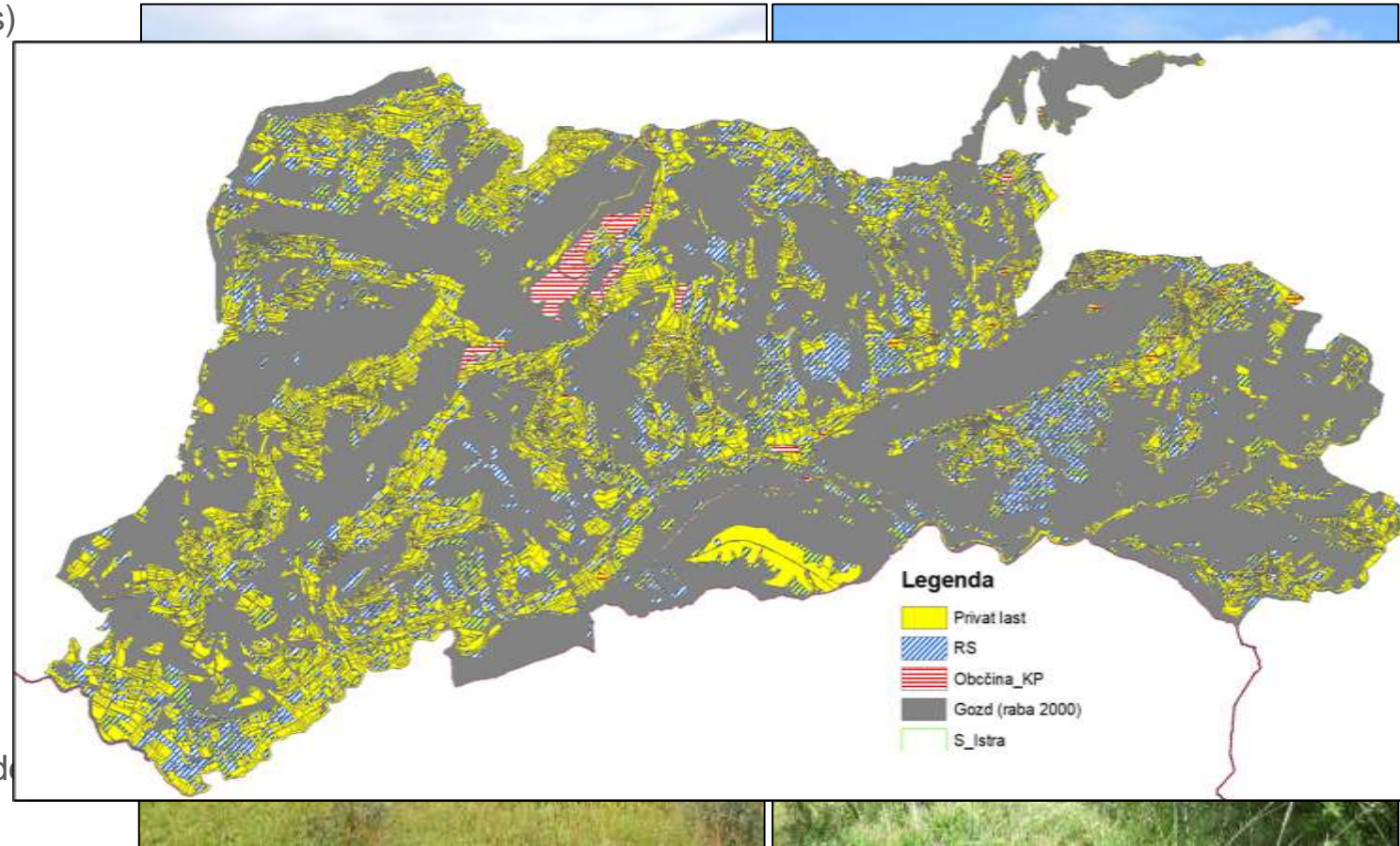
- Introductory meeting with the Municipality of Koper (MOK)
- Introductory meeting with Farmland and Forest Fund of the Republic of Slovenia is also necessary and pending
- Communication with LAS Istre - local action group (LAG) - no interest to participate yet
- Searching other institutions/communities in connection with farming; the Association of Winegrowers of Slovenian Istria, Association of Olive Growers of Slovenian Istria; no **Agrarian community** in the area or on the border of the area
- Traditional events – village festivals/fairs (Malvasia and garlic festival in Nova vas, Oil and Swiss chard festival in Padna, It smells like Istria festival in Krkavče, Refoški festival in Marezige)



A.1.3 Consultations in drafting of implementation measures plan for IP area Slovenska Istra

Issues:

- only 25 farms with grazing (herbivore) livestock on IP area
- small number of animals per herd (maximum 7- 8 heads)
- lack of larger closed areas suitable for grazing
- strong tradition & also higher interest in establishing & managing permanent crops;
- huge fragmentation of land plot ownership:
 - very small land plots (0,04 ha)
 - scattered plots owned by the same landowner
 - multiple landowners of individual land plot
 - landowners are not present in the area
- frequent abandonment of farming :
 - elderly farm owners without heirs
 - younger generations' ambitions are unknown to elderly farm owners
 - younger generations/heirs are not interested in farming



A.1.3 Consultations in drafting of implementation measures plan for IP area Slovenska Istra



Activities that still need to be performed:

- Adopt measures after coordination with key beneficiaries and include them in conservation measure plan
- Calculations for customized management after measure adoption
- Workshops and individual meetings with farmers, landowners, local communities and interested public to introduce proper conservation measures plan and invitation to participate
- Design a public call
- Finish and publish the Action plan



Waters of Štajerska Region



A.1.3 Consultations in drafting of implementation measures plan

- Analysis of appropriate measures for habitat improvement (**finished**)
 - 11 locations and measures selected and approved, 5 selected locations for IAS removal
 - Final report on measures for habitat improvement for Dravinjska dolina, Dravinja s pritoki, Ličenca pri Poljčanah and Volčeke (**finished**)
 - Action plan – final report prepared, coordinated and approved by project partners
 - Project and investment documentation (prepared for permit procedures) (**in implementation**)
 - Project task for IAS has been prepared for 2021 and 2022, a permit for nature intervention has been obtained for 2021 and 2022, regular monitoring in the field is being performed
 - Project tasks for land obtainment needed for implementation of revitalization measures - in the Dravinja s pritoki, Volčeke and Ličenca pri Poljčanah has been prepared, and project task for planning of implementation of revitalization measures is being prepared
 - Public tender for land obtainment has been executed and contract with the contractor of property and legal services, evaluation of land and geodetic works has been signed. Land obtainment is under way
 - Implementation measure plans presented and communicated with land owners, local communities and interested public (**in implementation**)
 - IAS: plans have been presented to land owners in 2021, notifications of continuation of works have been sent in 2022 and 15 consensus from land owners have been obtained in 2021 and additional 2 in 2022
 - implementation of revitalization measures: plans for presentation to land owners are being made by contractor
- more than 7500 working hours (over 2800 in phase 1, almost 3900 in year 2021 and over 800 in year 2022); 20 people involved; more than 30 coordinations and meetings (internal of narrow project teams, with wider project teams, with other project partners)

Final selection of appropriate measures for habitat improvement

Outline of measures for improvement of habitats

- 3 measures in Volčeke,
- 6 measures in Dravinjska dolina and Dravinja s pritoki
- 2 measures in Ličenca pri Poljčanah
- 5 locations and 4 methods for IAS in Dravinjska dolina

PROJECT AREA	LABEL	ACTION GROUP	LOCATION	MEASURES	TARGET SPECIES	N° of plots
DRAVINJA S PRITOKI, DRAVINJSKA DOLINA	D1.	1b	Prag in mrtvica Makole GKY: 550730, GKX: 130521	Establishing a crossing for aquatic organisms and moving the riverbed by establishing natural river dynamics. Land obtainment is carried out for the purpose of establishing natural river dynamics	dragonfly species (Ophiogomphus cecilia), kingfisher (Alcedo atthis), fish species (Rutilus pigus, Eudontomyzon vladykovi)	8
	D5.		Prag Globoko III GKY: 550650, GKX: 130291			23
DRAVINJA S PRITOKI, DRAVINJSKA DOLINA	D7.	1a	Prag Mlače GKY: 539522, GKX: 128174	Establishing a crossing for aquatic organisms	fish species (Rutilus pigus, Eudontomyzon vladykovi)	4
DRAVINJA S PRITOKI, DRAVINJSKA DOLINA	D10.	2a	Mrtvica v Brezjah pri Poljčanah GKY: 546003, GKX: 129188	Revitalization of sustainable riparian vegetation, deepening of oxbow lake to its original state, land obtainment at the location of the oxbow lake	kingfisher (Alcedo atthis)	7
DRAVINJA S PRITOKI, DRAVINJSKA DOLINA	D11.	2b	Koritno - odkup GKY: 555373, GKX: 132778	Land obtainment to provide space for further river dynamics and the establishment of passive vegetative riparian vegetation	dragonfly species (Ophiogomphus cecilia), kingfisher (Alcedo atthis),	9
DRAVINJA S PRITOKI, DRAVINJSKA DOLINA	D21.	2b	Ljubično - odkup GKY: 542845, GKX: 128812	Land obtainment to provide space for further river dynamics and the establishment of passive vegetative riparian vegetation	dragonfly species (Ophiogomphus cecilia), kingfisher (Alcedo atthis),	12
LIČENCA PRI POLJČANAH	L1.	1a	Lušečka vas, GKX: 129056, GKY: 543128	Establishing a crossing for aquatic organisms near a road bridge	freshwater shellfish (Unio crassus)	2
LIČENCA PRI POLJČANAH	L2.	2a	Izток iz Štatenberščka GKX: 131712, GKX: 541999	Expansion of the stream bed, land obtainment along the watercourse	freshwater shellfish (Unio crassus)	8
VOLČEKE	V1.	1b	Sklop mrtvic GKX: 122345 GKY: 524446	Revitalization of the watercourse with the renovation of the 300 m old riverbed of eastern Ložnica and the arrangement of a bay of approximately 2000 m2. Land obtainment is needed	fish species (Eudontomyzon vladykovi)	19
VOLČEKE	V3.	2a	GKX: 122200 GKY: 524891	Planting of riparian and aquatic vegetation with the function of tertiary treatment in the area of a small tributary of eastern Ložnica	fish species (Eudontomyzon vladykovi)	8
VOLČEKE	V5.	1b	od GKX: 122451, GKY: 526615 do GKX: 122747, GKY: 527284	Expansion of Dobje stream bed by removing the riverbank protection, land obtainment along the watercourse and planting coastal vegetation in length of 700 m	freshwater shellfish (Unio crassus), fish species (Eudontomyzon vladykovi)	17
DRAVINJSKA DOLINA	IAS	1	Dražva vas, sotočje Dravinje in Oplotnice	Removal of invasive alien plant species by various methods		
						117

Measures for habitat improvement – criteria and action groups

The implementation of the measures depends on the criteria by which action groups are set.

The criteria covers:

- the complexity of the measures in terms of financial resources and the scope of the work and necessary project documentation,
- inclusion of all target species and inclusion of all pilot areas,
- the complexity of measure from the perspective of land obtainment,
- obtaining the necessary approvals and permissions.

PROJECT AREA	MEASURES	TARGET SPECIES						FINANCIAL RESOURCES	LAND OBTAINMENT	ACTION GROUP
		kingfisher (Alcedo atthis)	dragonfly species (Ophiogomphus cecilia)	fish species (Rutilus pigus)	fish species (Eudontomyzon vladykovi)	freshwater shellfish (Unio crassus)	SUM target species	1: 100.000 – 200.000 EUR 2: 50.000 – 99.999 EUR 3: 10.000 – 49.999 EUR		
Dravinja	D1	X	X	X	X		4	1	x	1b
	D5								x	
	D7			X	X		2	3	/	1a
	D10	X					1	3	x	2a
	D11	X	X				2	1	x	2b
	D21	X	X				2	1	x	2b
Ličenca	L1					X	1	3	/	1a
	L2					X	1	3	x	2a
Volčeve	V1				X		1	1	x	1b
	V3				X		1	3	x	2a
	V5				X	X	2	2	x	1b
	SUM 1a			X	X	X	3	3	/	
	SUM 1b	X	X	X	X	X	5	1	x	
	SUM 2a	X			X	X	3	2	x	
	SUM 2b	X	X				2	1	x	

Three measures will
be implemented in
Natura 2000 area
Volčeke

Območje Natura 2000 - Volčeke



Implementation of measures in a Natura 2000 area Volčeke

1. example: location on Vzhodna Ložnica in Bukovžlak area

a) Land obtainment (in implementation)

- 9 cadastral parcels privately owned → purchase
- 10 cadastral parcels state-owned/public good/municipal property etc → easements or agreements

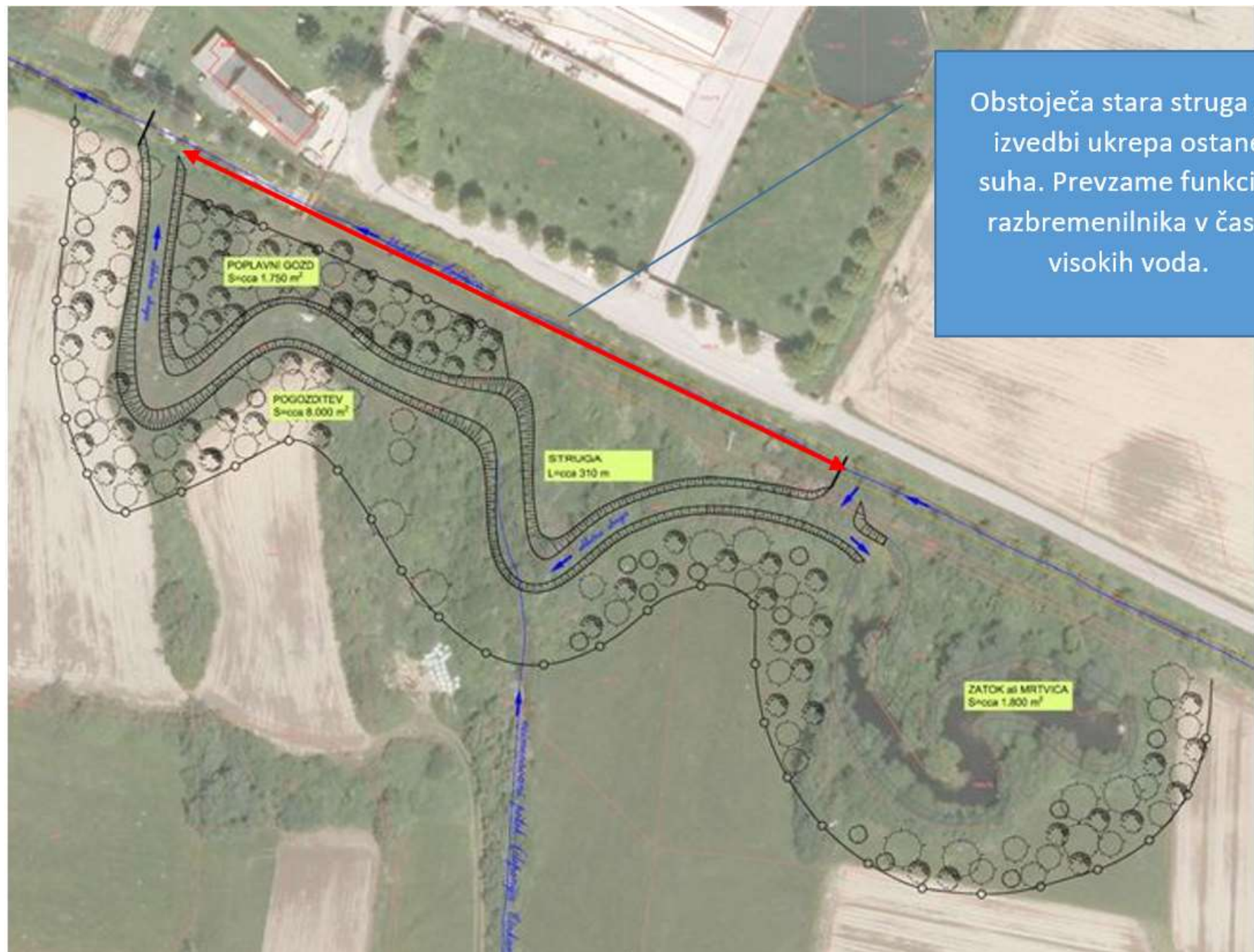
b) Project documentation (begins after land obtainment)

c) Implementation (after preparation of project documentation)

- Revitalization of Vzhodna Ložnica with the restoration of the 300 m old riverbed through the oxbow lakes,
- renovation of the oxbow of 2,000 m²
- and tertiary planting of aquatic plants in the leachate ditch from Cinkarna Celje disposal area (Bukovžlak)



Project conceptual design of a solution on the first location in Volčeke



Obstoječa stara struga po izvedbi ukrepa ostane suha. Prevzame funkcijo razbremenilnika v času visokih voda.

Implementation of measures in a Natura 2000 area Volčeke

2. example: Dobje creek

a) Land obtainment for the natural regime and riverbed expansion of the Dobje creek (**in implementation**)

- 17 cadastral parcels privately owned → purchase

b) Project documentation (begins after land obtainment)

c) Implementation (after preparation of project documentation)

- The removal of bank fortification - riverbeds heel
- The creeks natural regime will be accelerated by boulders or wooden piles
- Planting of riparian vegetation in the length of about 700 m
- The measure is carried out in the Volčeke area of influence

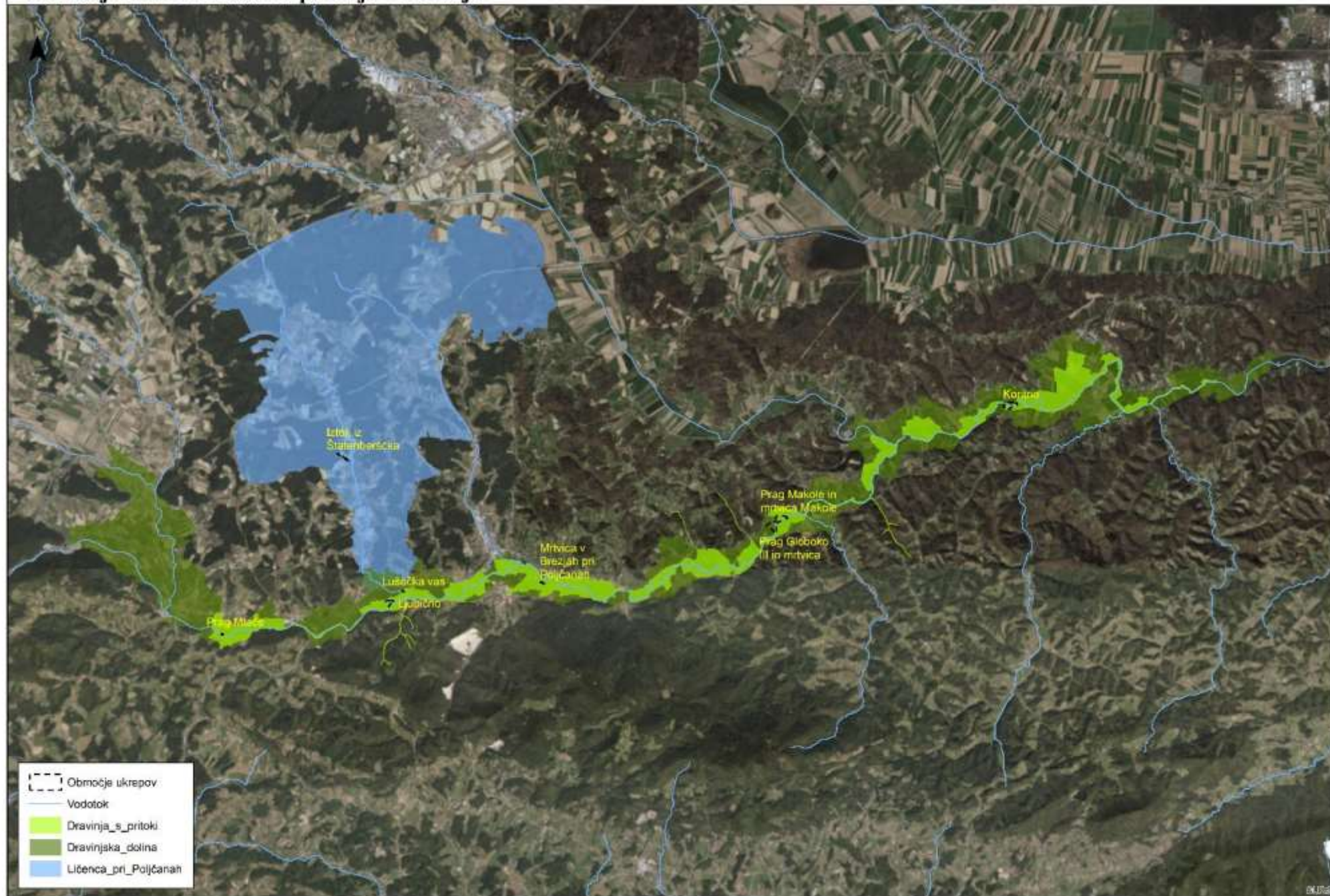


6 measures will be implemented in Natura 2000 areas called Dravinjska dolina and Dravinja s pritoki

and 2 in an area called Ličenca pri Poljčanih

5 locations and 4 methods for IAS removal in Dravinja in implementation (for 2021 executed and 2022 in execution)

Območje Natura 2000 na porečju Dravinje



Implementation of measures in Natura 2000 areas Dravinjska dolina and Dravinja s pritoki

1. example: section of Dravinja from Globoko to Mlače

a) Land obtainment to provide space for the river in the length of 0,5 km, width of about 50 m (**in implementation**)

- 24 cadastral parcels privately owned → purchase
- 7 cadastral parcels state-owned/public good/municipal property etc → easements or agreements

b) Project documentation (begins after land obtainment)

c) Implementation (after preparation of project documentation)

- Enabling a migration of aquatic organisms at two artificial barriers
- Removal of left bank fortification
- Establishment of passive levee – stop bank



1. example:
section of
Dravinja from
Globoko to
Mlače

Current
situation of
intensive
agricultural
landscape
where river is
pushed in to a
narrow
riverbed



Implementation of measures in Natura 2000 areas Dravinjska dolina and Dravinja s pritoki

2. and 3. example are locations on Dravinja in Koritno and Ljubično

a) Land obtainment (in implementation)

- 6 in Koritno and 9 in Ljubično privately owned → purchase
- 3 cadastral parcels in each location state-owned/public good/municipal property etc → easements or agreements

b) Project documentation (begins after land obtainment)

c) Implementation (after preparation of project documentation)

- establishment of passive levee to provide space for the river Dravinja in Ljubično and Koritno, together in the length of more than 600 m



Land obtainment

Dravinjska dolina and Dravinja s pritoki

- 46 cadastral parcels privately owned → purchase
- 15 cadastral parcels state-owned/public good/municipal property etc → easements or agreements
- 117 cadastral parcels of which 77% are privately owned
- the implementation of the measures will depend on the success of the land obtainment

Ličenca pri Poljčanah

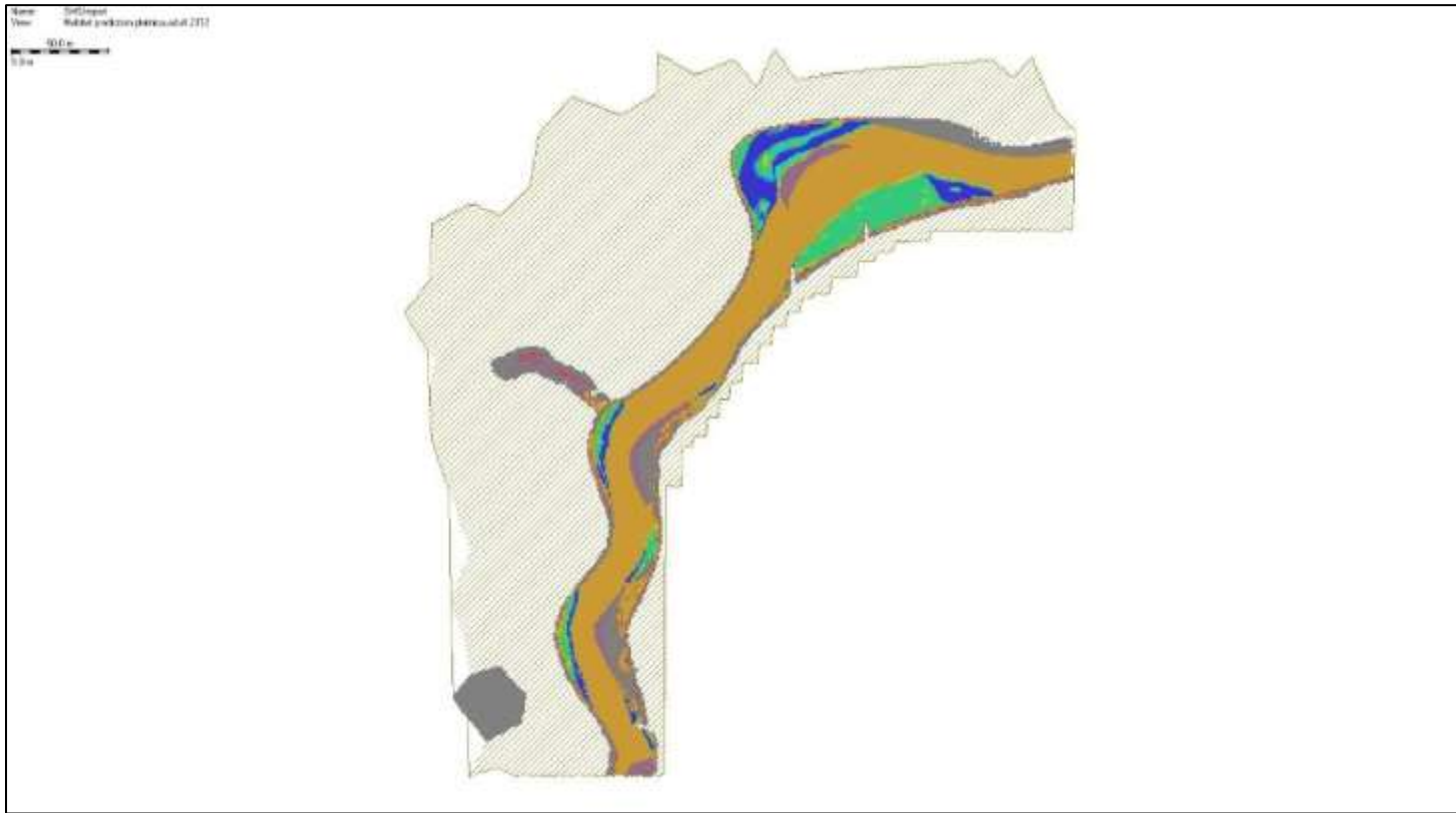
- 8 cadastral parcels privately owned → purchase
- 0 cadastral parcels state-owned/public good/municipal property etc
- 4 additional cadastral parcels

Volčeke

- 32 cadastral parcels privately owned → purchase
- 12 cadastral parcels state-owned/public good/municipal property etc → easements or agreements

A.1.3 Species and habitat type's initial situation analysis

Assessment of habitat suitability in Dravinja river and the proposal of potential measures for improvement of habitat for Danubian roach and brook lamprey



Habitat suitability for
adult Danubian roach

C.1.4 Concrete conservation measures on waters of Štajerska Region done by DRSV

Removal of invasive alien plant species - IAS
by various methods



C.1.4 Concrete conservation measures on waters of Štajerska Region

Removal of invasive alien plant species - IAS by various methods and implementation of revitalization measures - in the Dravinja with tributaries, Volčke and Ličenca pri Poljčanah

IAS (in implementation)

- Removal of IAS at all 5 sites along Dravinja is under way



Revitalization measures (in implementation)

- Locations are harmonized, public tender for land obtainment is executed and contract with the contractor of property and legal services, evaluation of land and geodetic works has been signed
- Land obtainment is under way
- 265 working hours (115 in year 2021 and 150 in year 2022); 10 people involved; coordinations and meetings (internal of narrow project teams, with wider project teams, with other project partners)

C.1.4 Concrete conservation measures on waters of Štajerska Region

Removal of invasive alien plant species - IAS by various methods

- Planned for three years (2021-2023)
- 2021: 4 methods implemented in Dravinjska dolina on Dravinja river banks
- 2022: maintenance of implemented methods and further removal of IAS
- Target IAS species: Japanese knotweed (*Fallopia japonica*)



C.1.4 Concrete conservation measures on waters of Štajerska Region

Removal of invasive alien plant species - IAS by various methods in 2021

- Fieldwork took 1,5 months, more than 26 field trips were performed for fieldwork planning and monitoring, 8 people involved (narrow and wider project teams)
- Fieldworks were executed by concessionaire VGP Drava Ptuj d.d.
- Monitoring and the supervision of fieldwork carried out



C.1.4 Concrete conservation measures on waters of Štajerska Region

Removal of invasive alien plant species - IAS by various methods in 2022

- further removal began in June and it is planned to continue until the end of the year
- 3 field trips were performed for fieldwork planning and monitoring, 6 people involved (narrow and wider project teams)
- Fieldworks are being executed by concessionaire VGP Drava Ptuj d.d.
- Monitoring and the supervision of fieldwork carried out



C.1.4 Concrete conservation measures on waters of Štajerska Region

Removal of invasive alien plant species by various methods

Selected methods :

1. D1: by overlapping with the help of willow braid,
2. D2: by covering with geotextile,
3. D3: by depletion, by carrying out intensive mowing every 14 days
4. D4 and D5: by overlaying with galvanized steel mesh,

Lokacije odstranjevanja invazivnih tujerodnih vrst ob sotočju Oplotnice in Dravinje



C.1.4 Concrete conservation measures on waters of Štajerska Region

1. Removal of invasive alien plants by overlapping with the help of willow braid - 2021



C.1.4 Concrete conservation measures on waters of Štajerska Region

1. Removal of invasive alien plants by overlapping with the help of willow braid - 2022



C.1.4 Concrete conservation measures on waters of Štajerska Region

2. Removal of invasive alien plants by covering with geotextile - 2021



C.1.4 Concrete conservation measures on waters of Štajerska Region

2. Removal of invasive alien plants by covering with geotextile - 2022



C.1.4 Concrete conservation measures on waters of Štajerska Region

3. Removal of invasive alien plant by depletion - intensive mowing every 14 days - 2021



C.1.4 Concrete conservation measures on waters of Štajerska Region

3. Removal of invasive alien plant by depletion - intensive mowing every 14 days - 2022



C.1.4 Concrete conservation measures on waters of Štajerska Region

4. Removal of invasive alien plant by overlaying with galvanized steel mesh - 2021



C.1.4 Concrete conservation measures on waters of Štajerska Region

4. Removal of invasive alien plant by overlaying with galvanized steel mesh - 2022



C.1.4 Concrete conservation measures on waters of Štajerska Region done by ZZRS

Removal of an invasive crayfish species
(*Oronectes limosus*) in vicinity of N2K area
Dravinja s pritoki



Zavod za
ribištvo
Slovenije

Fisheries Research
Institute of Slovenia



C.1.4 Concrete conservation measures on waters of Štajerska Region

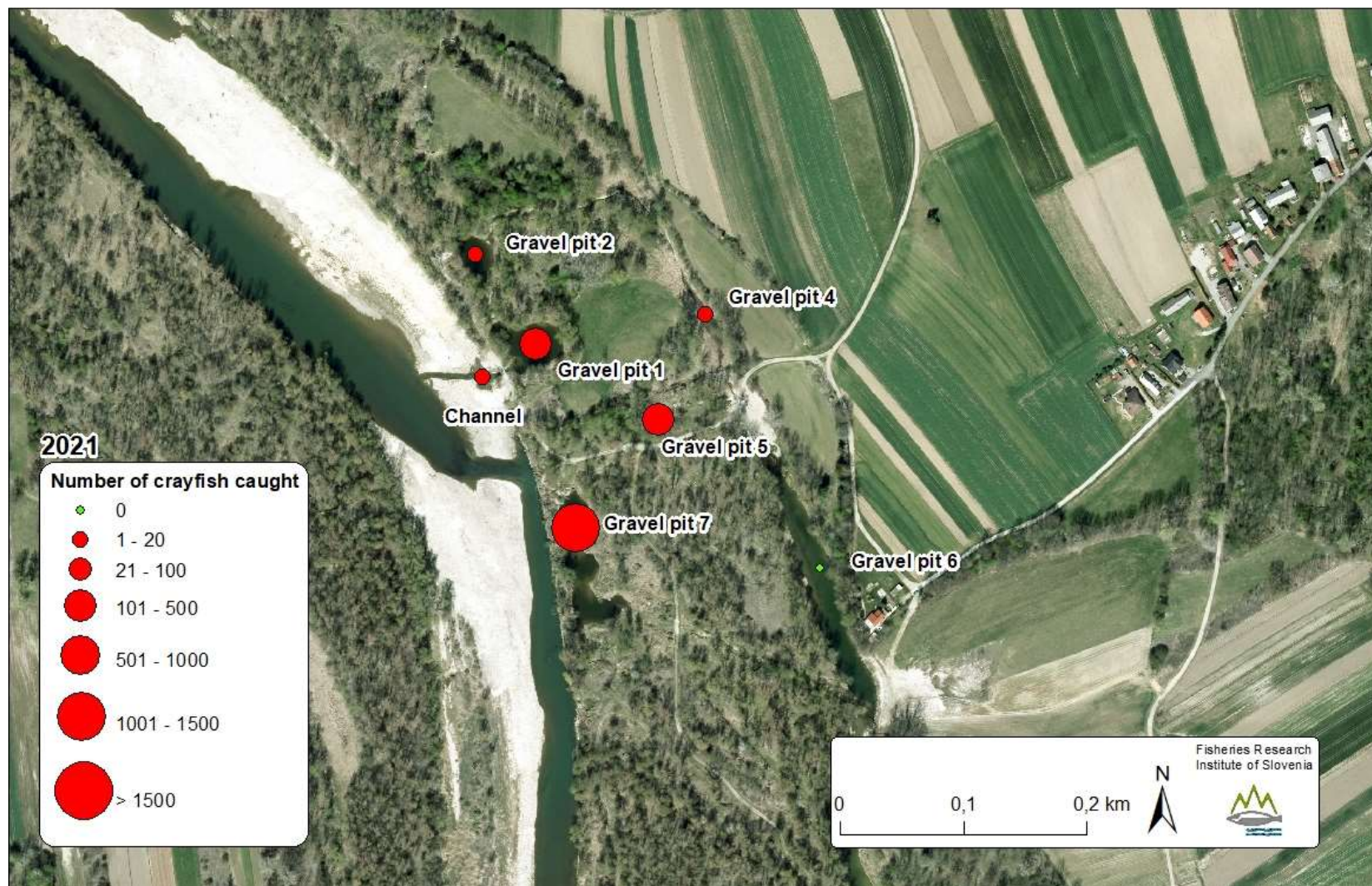
Removal of an invasive crayfish species (*Oronectes limosus*) in vicinity of N2K area Dravinja s pritoki

Purpose of the activity: to reduce the population of invasive crayfish and to prevent their further spread, mainly to the Dravinja with tributaries area.

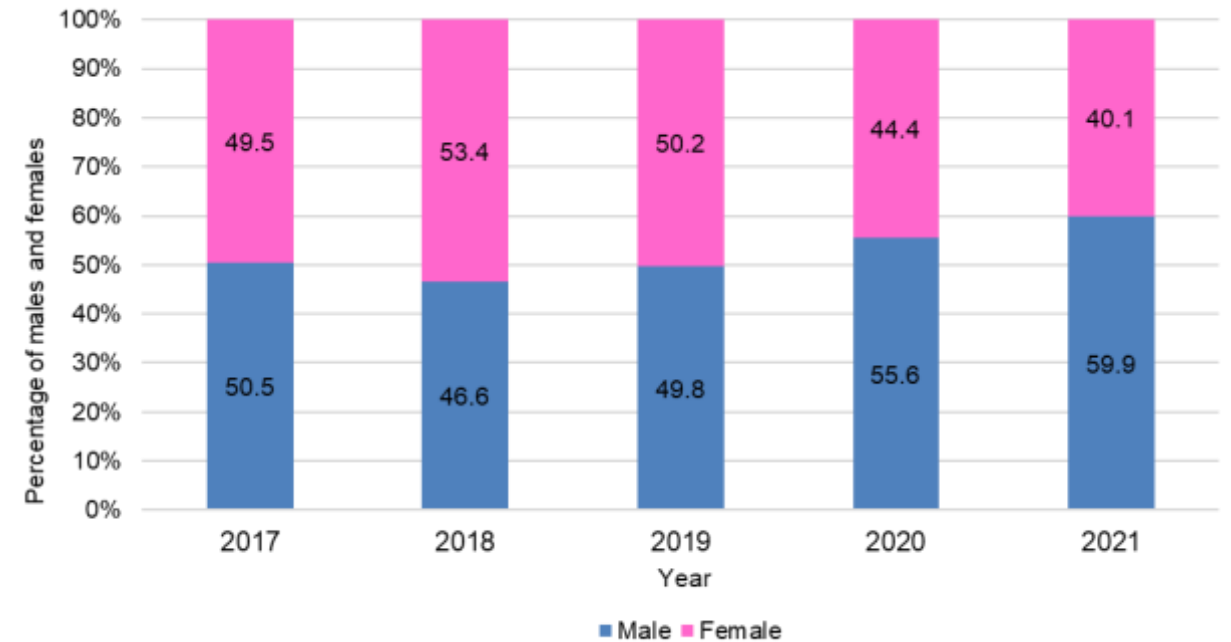
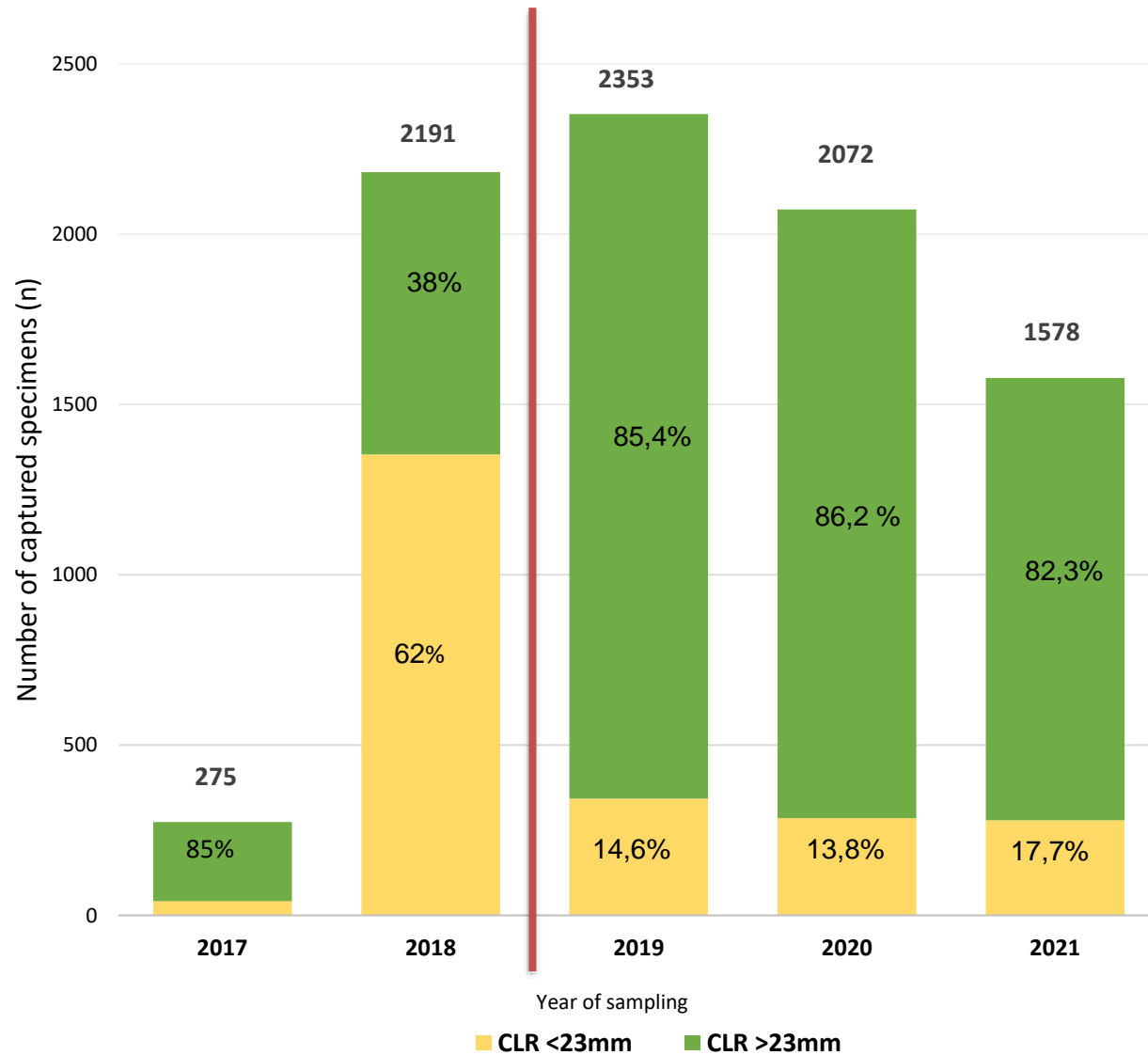


C.1.4 Concrete conservation measures on waters of Štajerska Region

Removal of an invasive crayfish species (*Oronectes limosus*) in vicinity of N2K area Dravinja s pritoki



Removal of an invasive crayfish species (*Oronectes limosus*) in vicinity of N2K area Dravinja s pritoki



PEACEFUL COEXISTENCE of BATS & CULTURAL HERITAGE



A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

Actual start date: **February, 2019**

Actual end date: **March, 2022**

Name of the Deliverable	Deadline
1 booklet on bats in buildings of cultural heritage (1000 copies) made as communication material (CKFF & UL texts, ZRSVN review, Štirna review, design & print).	- February 2021 DONE (February 2021)
Based on survey of 100 buildings roosts of bats an analysis report of potential conflicts with bat (or other animals) presence estimated and quantified in special report done by CKFF.	- December 2021 Partly DONE (March 2022) (40/100)
A plan of “guano cleaning” action and other conservation measures (including estimation of costs) for minimalizing load of bat presence for building managers done by CKFF	- December 2021 DONE (March 2022)
A protocol for evaluating “quantity of additional maintenance costs for managers of building with bats roosts done by CKFF, ZRSVN &MOP	- December 2021 DONE (March 2022)
Name of the Milestone	
8 presentations for dioceses officials performed	- Partly DONE (March 2022) (1/8)
8 joined workshops with Protection of Cultural Heritage of Slovenia (ZVKDS) organised	- Partly DONE (March 2022) (2/8)
Presentation on 15 th European Bat Research Symposium 2020, Turku, Finland, and at annual meetings of EUROBATS Advisory Committee	- September 2020 DONE (May 2021) (video conference)

A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

Final report of A.2

I. Aims of A2 actions

II. Constrains

III. Method

IV. Results

	
<p>Varstvo netopirjev v stavbah kulturne dediščine – zmanjševanje obremenjenosti z netopirskim gvanom</p> <p>Prilagodljive aktivnosti in predhodne analize (akcija A.2)</p> <p>Avtorja: Primož Prisetrnik in Aja Zamolo</p>	
 <p>Miklavž na Dravskem polju, marec 2022</p>	
   <p>REPUBLIKA SLOVENIJA MINISTRSTVO ZA OKOLJE IN PROSTOR</p>	
<p><small>LIFE integrirani projekti za okrepitev upravljanja Nature 2000 v Sloveniji (LIFE17 IPE/SI/000011) so financirani s strani Evropske unije v okviru programa LIFE. Ministrstvo za okolje in prostor ter partnerji. Za vsebino tega projekta ne odgovarjamo sami avtorji. Ta vsebina ne odraža nujno mnenja Evropske unije. Če bi za vsebino in izražanje v njej uporabili informacije, Evropska komisija ne prevzema odgovornosti.</small></p>	
	<p>Projekt: LIFE-IP NATURA-SI: LIFE integrirani projekt za okrepitev upravljanja Nature 2000 v Sloveniji – LIFE17 IPE/SI/000011</p> <p>Naloga in akcija: Poročilo o pripravljanih aktivnostih in predhodnih analizah za varstvo netopirjev v stavbah kulturne dediščine – zmanjšanje obremenjenosti z netopirskim gvanom – Akcija A.2</p> <p>Nosilec projekta: Ministrstvo za okolje in prostor Dunajska 48 SI-1000 Ljubljana</p> <p>Izvajalec naloge: Center za kartografijo flore in flore Antoličeva 1 SI-2204 Miklavž na Dravskem polju</p> <p>Datum: 31. 3. 2022</p> <p>Nosilec naloge: Primož Prisetrnik, univ. dipl. biol.</p> <p>Delovna skupina: Aja Zamolo, mag. ekol. biol.</p> <p>Preporočen način citiranja:</p> <p>Prisetrnik, P. & A. Zamolo, 2022. Varstvo netopirjev v stavbah kulturne dediščine – zmanjševanje obremenjenosti z netopirskim gvanom. Pripravljane aktivnosti in predhodne analize (akcija A.2). Projekt LIFE-IP NATURA-SI (LIFE17 IPE/SI/000011). Center za kartografijo flore in flore, Miklavž na Dravskem polju, 57 str., digitalna priloga.</p>
   <p>REPUBLIKA SLOVENIJA MINISTRSTVO ZA OKOLJE IN PROSTOR</p>	

A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

Final report of A.2

II. Constrains

Constrains of live meetings:

- 65 days in spring 2020,
- 209 days in autumn-spring 2020/21
- 212 days in autumn-spring 2021/22.

> 560 days of restrictions

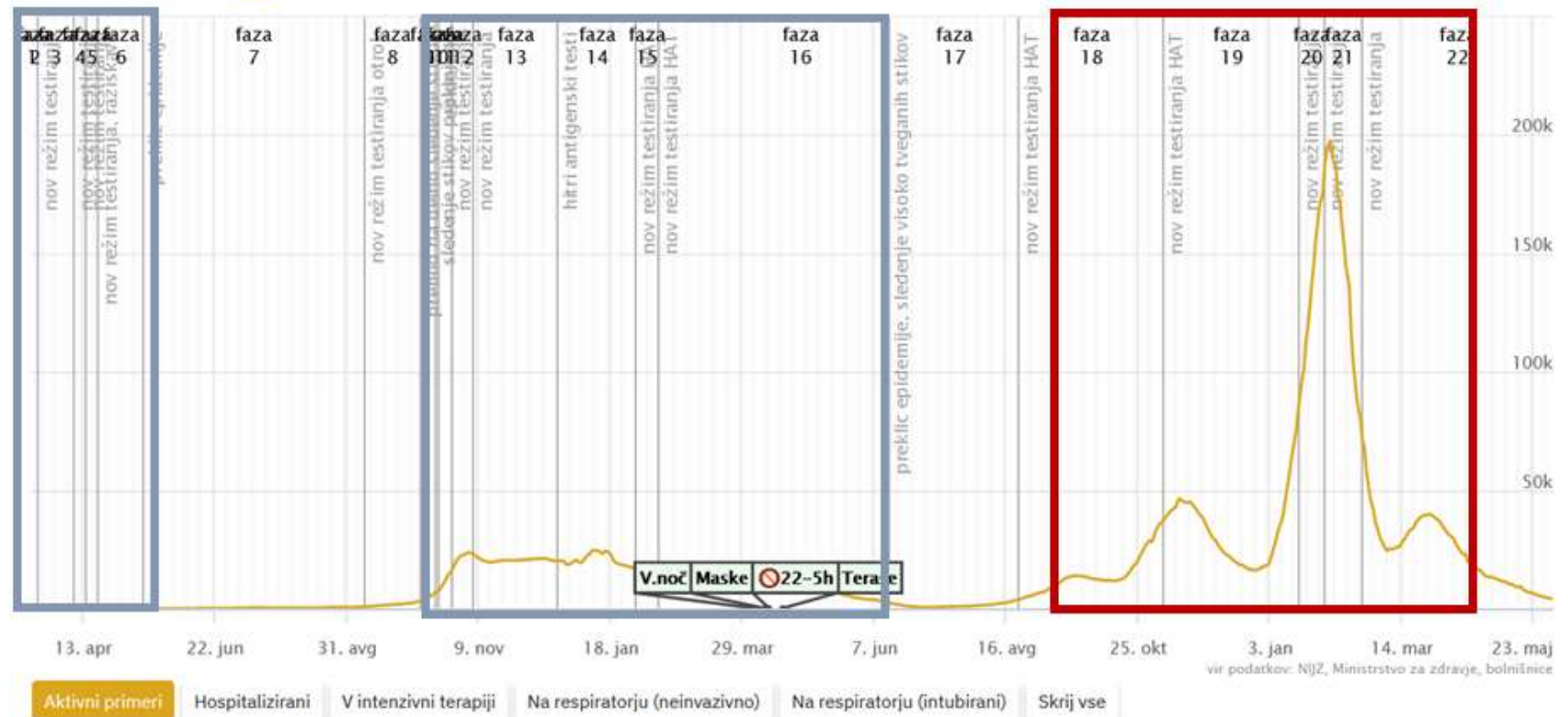
Stanje COVID-19 v Sloveniji

7-dnevno povprečje **Aktivni** Na dan Skupaj

Y os: **Linearna** Logaritemska

Obdobje 2m 4m **Vse**

10. 03. 2020 – 02. 06. 2022



A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

Final report of A2

III. Method

IV. Results

1. Expert basis on bats & building of cultural heritage (BCH)
2. Assessment of the problems of guano accumulation in BCH
3. Proposals for possible technical solutions
4. Program for the implementation of technical measures
5. Draft of protocol for assessing additional work for managers of CHBs with bats
6. Preparation of an overview of possible starting points for systemic support for managers of CHB with bats
7. & 8. Implementation of networking and communication activities

Presečnik, P. & A. Zamolo, 2022. Varstvo netopirjev v stavbah kulturne dediščine – zmanjševanje obremenjenosti z netopirskim gvanom. Pripravljalne aktivnosti in predhodne analize (akcija A.2).

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Presečnik, P. & A. Zamolo, 2022. Varstvo netopirjev v stavbah kulturne dediščine – zmanjševanje obremenjenosti z netopirskim gvanom. Pripravljalne aktivnosti in predhodne analize (akcija A.2).

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A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

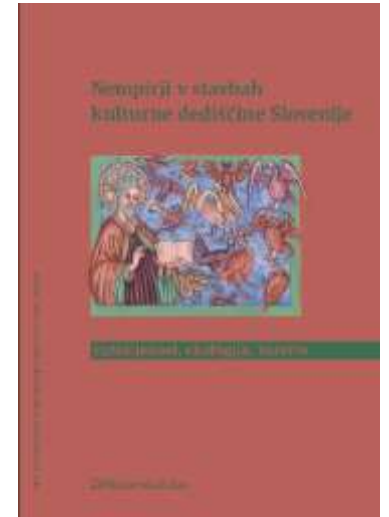
Final report of A.2

III. Method

IV. Results

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- Bats found in 82% BCH (= 1350)
- maternity roosts in 37% BCH (= 620)
- 10 bat species heavily depend on roost in BCH



Vrsta / Tip SKD (št. zatočišč / št. ketišč)	Cerkve	Gradovi	Samostani	Skupaj
južni podkovnjak (<i>Rhinolophus euryale</i>)	5/1	1/1	/	6/2
veliki podkovnjak (<i>Rhinolophus ferrumequinum</i>)	99/4	10/4	1/	110/8
mali podkovnjak (<i>Rhinolophus hipposideros</i>)	627/457	20/13	4/2	651/472
navadni netopir (<i>Myotis myotis</i>)	93/56	4/1	/	97/57
navadni/ostrouhi netopir (<i>Myotis myotis/blythii</i>)	169/23	2/	/	171/23
ostrouhi netopir (<i>Myotis blythii</i>)	9/2	2/	/	11/2
vejicati netopir (<i>Myotis emarginatus</i>)	49/30	5/4	1/	55/34
pozni netopir (<i>Eptesicus serotinus</i>)	71/47	3/-	/	74/47
sivi uhati netopir (<i>Plecotus austriacus</i>)	26/17	3/	/	29/17
usnjebradi uhati netopir (<i>Plecotus macrobullaris</i>)	58/49	1/	/	59/49
uhati netopir (<i>Plecotus</i> sp.)	82/26	4/-	/	86/2
dolgokrili netopir (<i>Miniopterus schreibersii</i>)	2/2	3/1	/	5/3
Skupaj z ostalimi vrstami	1290/714	58/24	6/2	1354/740

A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

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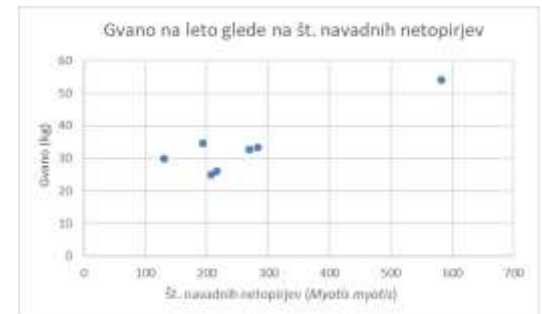
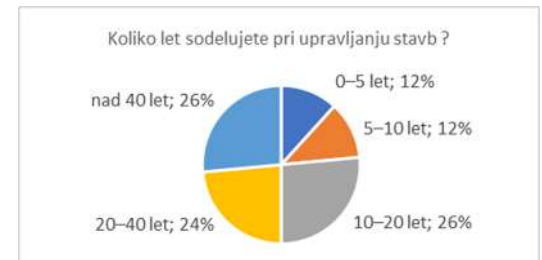
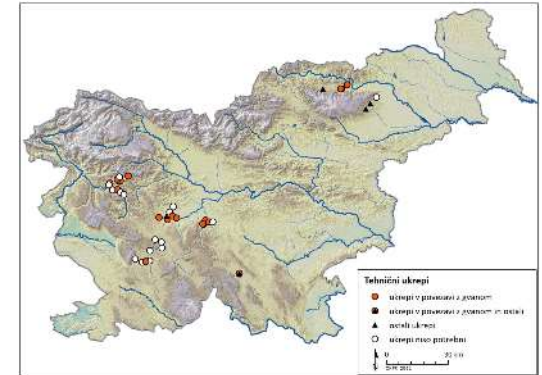
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- In 43.6% of surveyed BCH technical measurements required (some will be implemented in cohesion project Pohorka)

- Answers from CBH managers:
i) majority from older generation
ii) would welcome of technical solutions to reduce guano pollution, ...

- Estimation of yearly bat guano accumulations

- Commercial use of bat guano currently impossible due to legal and procedural problems (research in cohesion project Kras.RE.Vita),



A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

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- Technical solutions



- Guano cleaning



A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

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List was compiled and will be renewed on (bi)yearly base, mainly based on based:

- urgency,
- number of animals,
- special circumstances.

ID mesta	Zatočišče v SKD	Nov podest / polica (m²)	Zaščitna folija (m²)	Ostali ukrepi (gvano)	Zaščitne bodice (št. lin in dolžina (m))	Ostali ukrepi	Prednost obravnave	Opombe
27634	Cerkev sveti Lovrenc, Lovrenc na Pohorju	1,2 m širine na prvem nivoju, 5,5x6,5 m na zvoniku	-	Zaščita pogonskih mehanizmov	-	Zapreti odprtine nad zvonovi (golobi) in preverit preletnice, nova lestev	6	Možna izvedba v projektu Pohorka.
23460	Cerkev sveti Andrej, Zakriž	-	-	Zaščita za lestene	-		6	-
23005	Cerkev sveti Jurij, Lazec	-	-	Zaščita za lestene	-	Mrežasta vrata za možnost zračenja	6	-
47184	Cerkev sveti Jernej, Cerkno	-	-	Zaščita za lestence	-	-	5	-
23013	Cerkev sveta Ana, Cerkno	-	-	Zaščita za lestene	-	-	5	-
23009	Cerkev sveti Tomaž, Dolenji Novaki	-	-	Zaščita za lestene	-	-	5	-

A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

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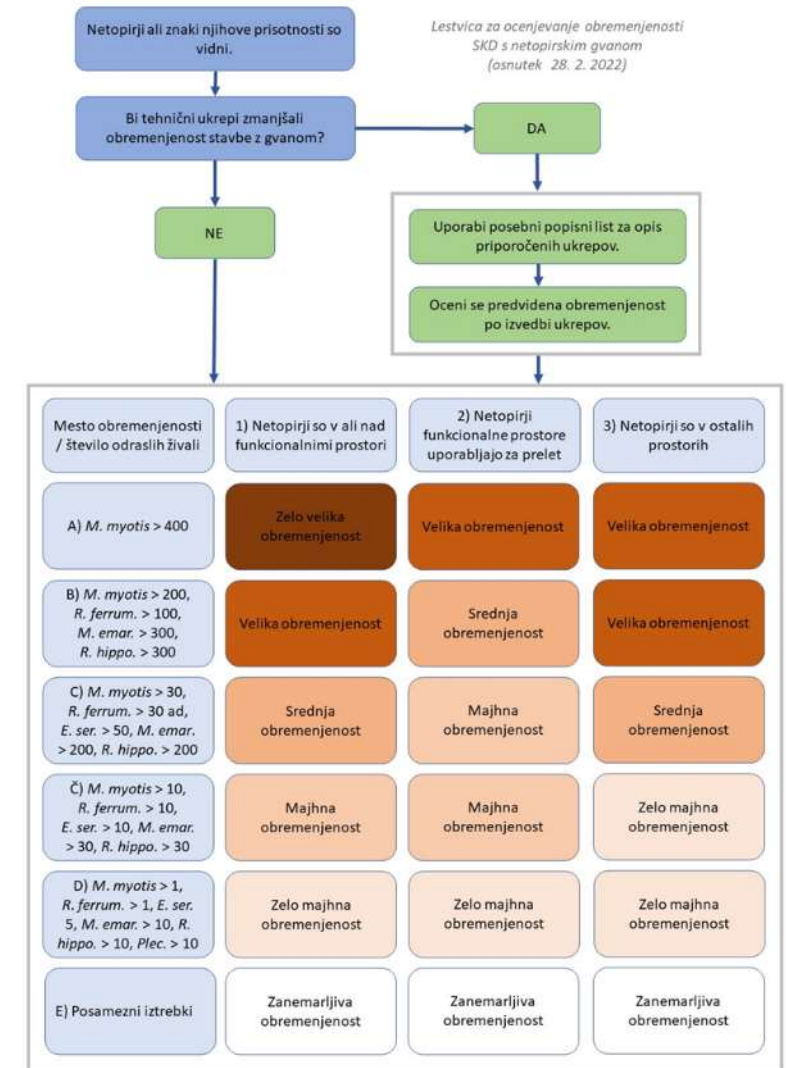
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6. classes based on:

- number of bats,
- species and
- position of their roosts in BCH.

For first 4 classes we recommended yearly support, and for additional class just occasional support.



A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

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Analysis identified:

- i) possible legal gaps that should be further researched and if confirmed, should be adequately addressed
- ii) inadequate procedures (new should be established or existing ones more clearly defined)

Possible starting points to change and enhance conservation of bat roosts in BCH:

- establishment of register of bat roosts in BCH and embedded it in the existing nature conservation system
- establishment of bat guano removing support system for managers of BCH with bat roosts.
- streamlining of state support for implementation of technical solutions for recusing problem with bat guano
- define the responsible body

A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

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7. & 8. Implementation of networking and communication activities

Networking

- Less successful than anticipated (due to covid-19 constrains)

KRAS.RE.VITA



Communication

- More intensive than anticipated (again due to covid-19)



A.2 BASIS FOR PEACEFUL COEXISTENCE – PREPARATORY ACTIONS FOR PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

Conclusion:

Less done as planned, but actions gave adequate basis for implementation of actions of C.2

- some of missed field work will be included field work of C.2 actions (60 surveys of BCH)
- some of the canceled/planned meetings/workshops we will try to substitute.

C.2 PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

Actual start date: **April, 2022**

Actual end date: **December, 2026**

Name of the Deliverable	Deadline
Booklet with a summary of results and explanation how the system of supports to managers of bat roost buildings works (2000 printed copies in Slovene, Slovene and English pdf version for wider dissemination)	December 2025

Name of the Milestone & Results	Deadline
- 360 building surveyed and estimated in the view of potential prevention of conflicts of bats with or cultural heritage	December 2025 in progress (17/360)
- At least 16 joined (4 annually) small field workshops with ZRSVN, ZVKDRS, bat experts (CKFF) and building managers	December 2025 (1/16)
- At least 5 meetings in the process of establishment of support scheme for managers of buildings with bat roosts.	December 2025
- 2 bi-annual presentations for MOP, ZRSVN made by CKFF	December 2026
- Draft of legal frame work for pilot compensation payments for building managers with bat roosts established	December 2025
- 50 concrete conservation measures implemented (biannually refreshed list by CKFF)	December 2026 - in progress
- Presentation of work progress on the annual meetings of EUROBATS Advisory Committee (5 meetings 2021-2025) (CKFF)	2025 - in progress (2/5)
- Midterm results will also be presented on 16th European Bat Research Symposium (c. 2023) or on similar bat expert congresses.	2023

C.2 PREVENTION OF CONFLICTS WITH MANAGERS OF CULTURAL HERITAGE ON THE CASE OF BAT GUANO

Actual start date: **April, 2021**

Actual end date: **December, 2026**

Example of plate indented for marking of bat roost emergence entrances.



2nd pillar

STRENGTHENING MANAGEMENT OF NATURA 2000



ANALYSIS & RENEWAL NATURA 2000 MANAGEMENT PROGRAMME



A.3 ANALYSIS OF NATURA 2000 MANAGEMENT PROGRAMME

2015 – 2020

Deliverables - activities performed:

ANALYSIS OF THE NATURA 2000 MANAGEMENT PROGRAM 2015-2020:

- AGRICULTURE
 - MKGP, KGZS, ZRSVN, MOP
- FORESTRY AND GAME MANAGEMENT –
 - 2 documents) ZGS, ZRSVN
- WATER MANAGEMENT
 - DRSV
- FISHERIES
 - ZZRS, MOP, ZRSVN
- NATURE CONSERVATION –
 - MOP, ZRSVN
- FOR THE YEAR 2018
 - MOP
- FOR THE YEAR 2019
 - MOP

Deliverables concerning other measures done by external



A.3 ANALYSIS OF NATURA 2000 MANAGEMENT PROGRAMME 2015 – 2020

Other activities performed:

- NATURE CONSERVATION –
 - MOP, ZRSVN
- FOR THE YEAR 2018
 - MOP
- FOR THE YEAR 2019
 - MOP

ANALYSIS OF NATURA 2000 MANAGEMENT PROGRAMME 2015-2020 – umbrella document,

- MOP, January 2022

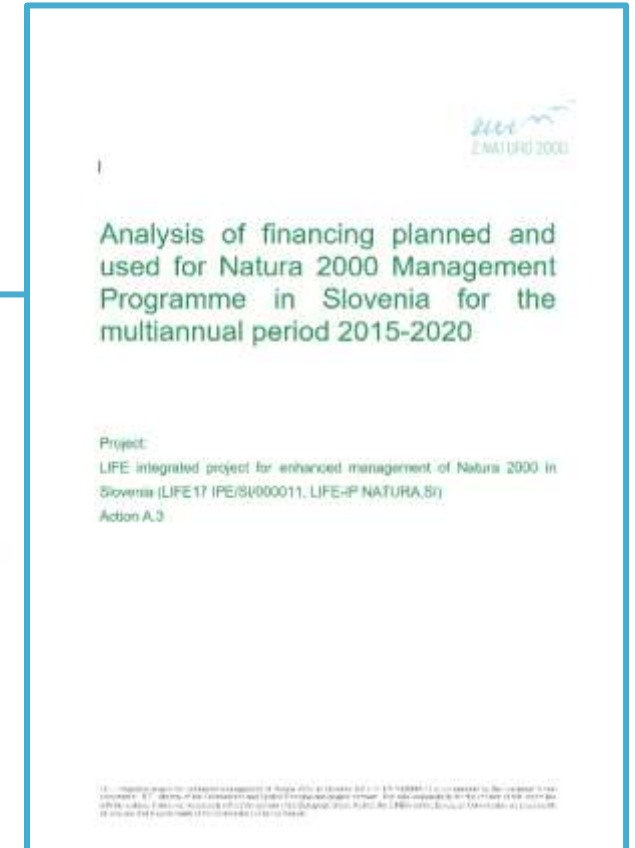
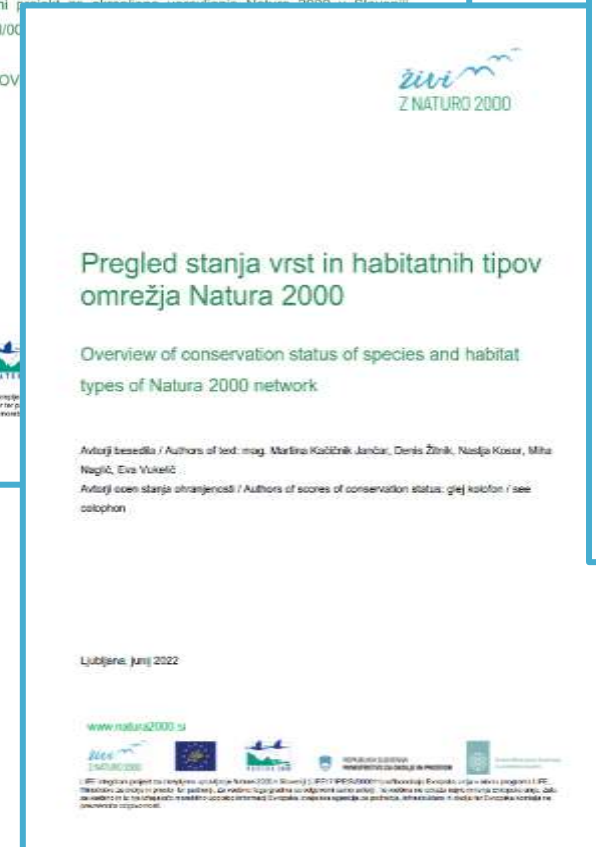
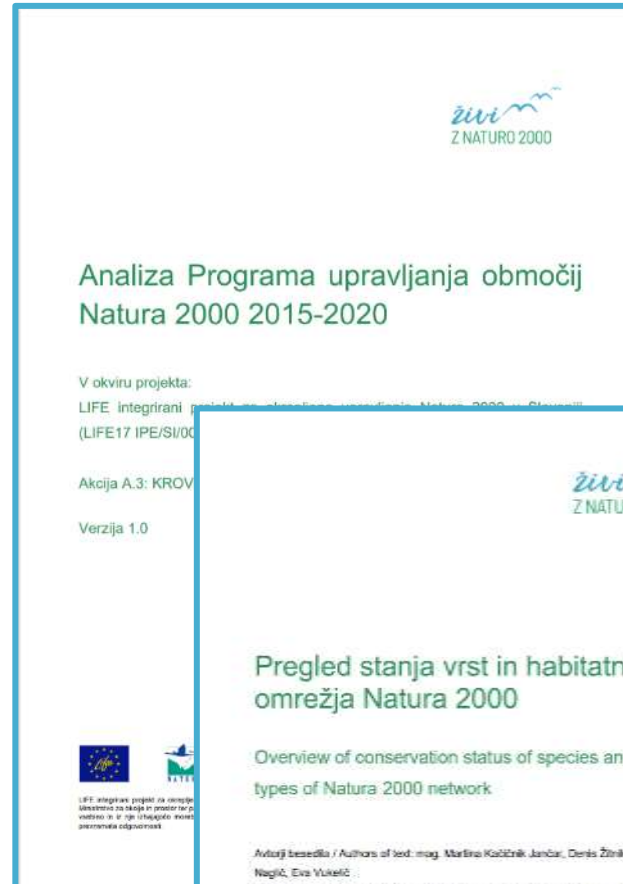
ANALYSIS ON THE USE OF FUNDS FOR IMPLEMENTATION OF PUN MEASURES

- MOP, July 2022

ANALYSIS OF FRV ACHIEVEMENT

- ZRSVN, June 2022

The action is finished!



A.3 ANALYSIS OF NATURA 2000 MANAGEMENT PROGRAMME 2015 – 2020 – UMBRELLA DOCUMENT



- To draw lessons from the implementation of the existing PUN 2015-20 to prepare an even better and more efficient program in the next programming period.
- First general information on the implementation of conservation measures of PUN 2015-20.
- All key sectors are discussed in more detail, recommendations and proposals are added:
 - some systemic changes
 - the information technology upgrade of databases is needed
 - capacity building and human resources
 - new financial sources
 - targeted monitoring

A.3: Analysis of financing planned and used for Natura 2000 Management Programme in Slovenia for the multiannual period 2015-2020

A general conclusion is that funds have to be used more for activities in the field required to address improvement of conservation status of Natura 2000 species and habitat types. These activities and conservation measures are best implemented, where solid knowledge of initial state of target species and habitats exists.

Supporting activities are important and need financing, too, but focused to the level where they mainly support activities in the field.

Different funds have very diverse rules for their use.

Funds, where eligibility and targeted use are defined at the EU or multinational level, and are additionally approving projects, coming on a bottom-up approach, have a less effective approach.

It is important to continue with a possibility to finance large projects with multitude of sources, allowing use of several funds complementary for a large project.



A.3: Analysis of FRV achievement



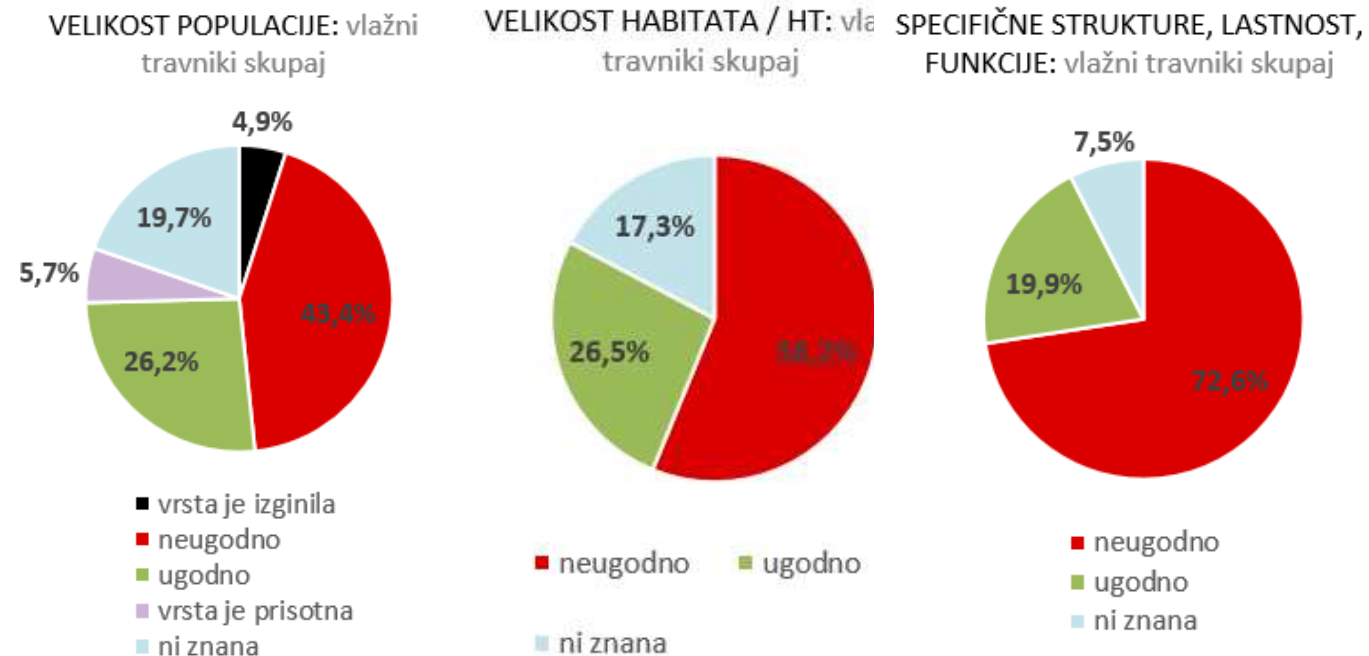
- Finished in June 2022
- Species nad HT conservation status for each Natura 2000 site defined by best experts on workshops during preparation of PUN 2000 : more than 100 workshops
- Aggregation of species/HT by ecosystems or similar ecological demands:
 - dead wood biomass
 - wet meadows
 - birds of mosaic agricultural farmland
 - dry meadows
 - Infrastructure
 - ...

Example:

Group:

- **Wet meadows:**

- Nesting birds of wet meadows
- Molinia meadows
- Scarce large blue, Dusky large blue
- Other species of wet meadows



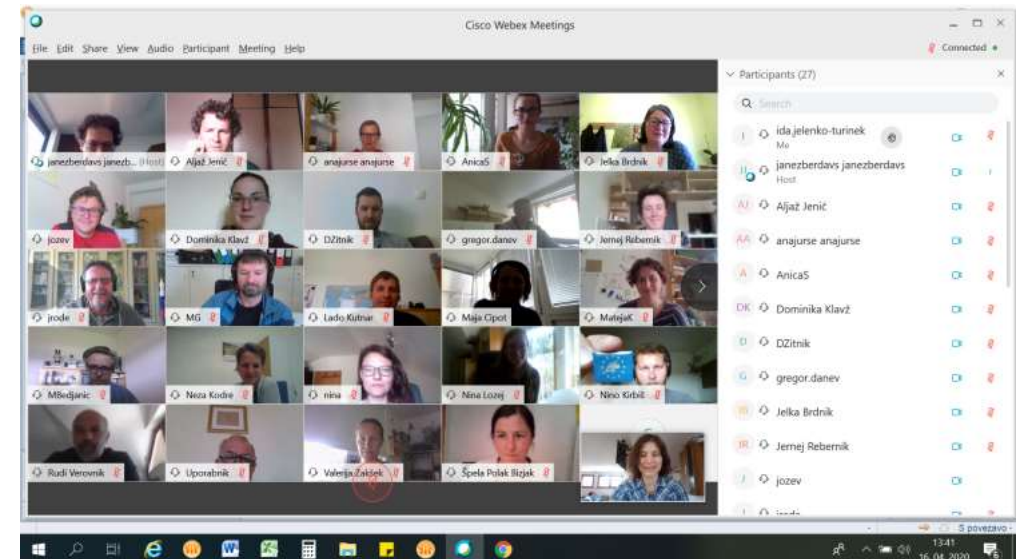
C.3.1: Preparation of the draft Natura 2000 Management Programme for the new financing period and its adoption

Deliverables - activities performed:

- 3 inicial workshops
- Continuous short meetings between partners
- Mor than 80 workshops with experts from partner organisations and external experts
- 16 workshops with managers of the Protected areas
- Update of the standard data forms (SDF)
- extensive work on management of data performed

Partners involved:

All project partners and other stakeholders

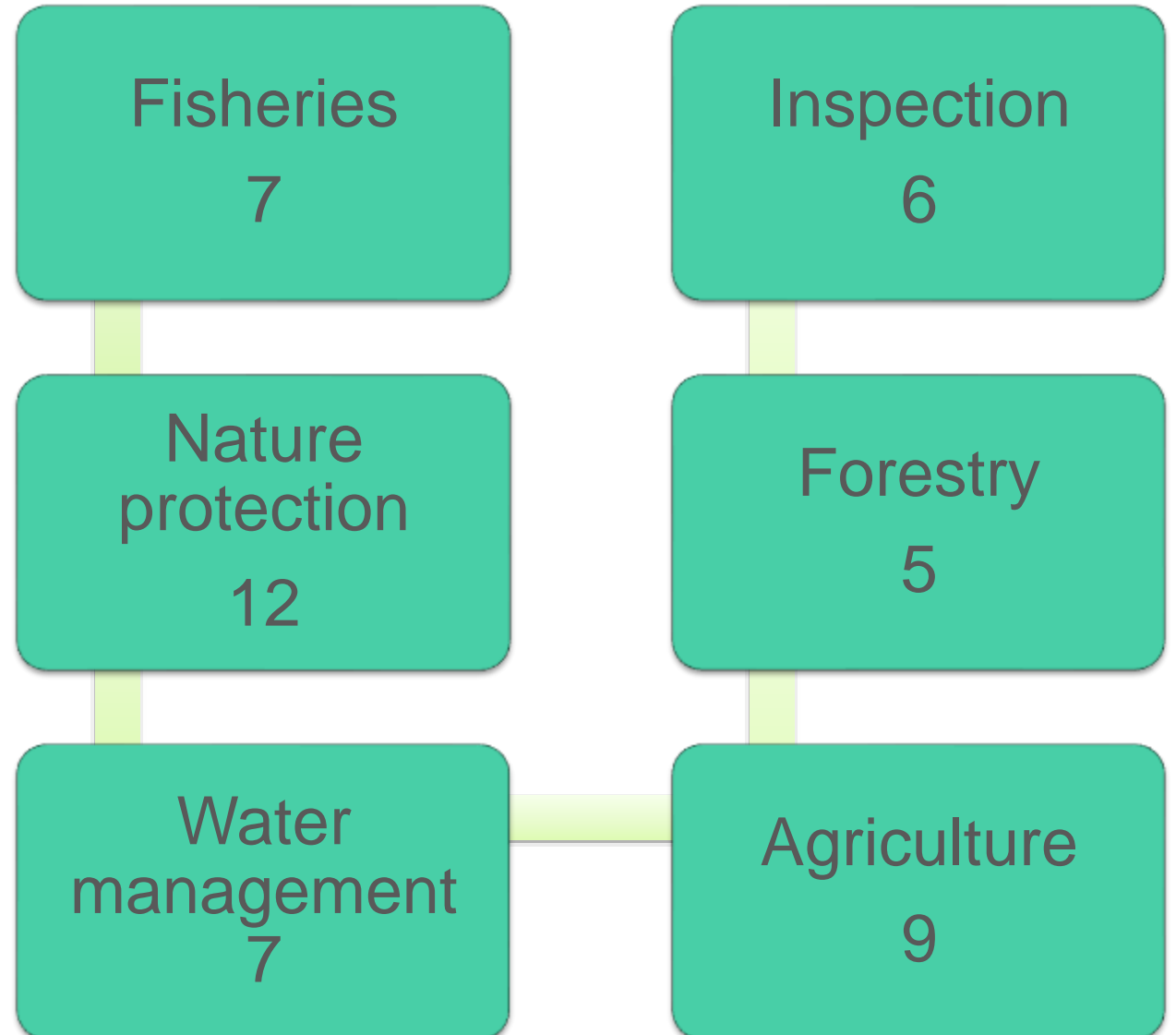


C.3.1: Preparation of the draft Natura 2000 Management Programme for the new financing period and its adoption

Workshops for conservation measures

- organized by MOP with ZRSVN

Specific sectors:



C.3.1: Preparation of the draft Natura 2000 Management Programme for the new financing period and its adoption

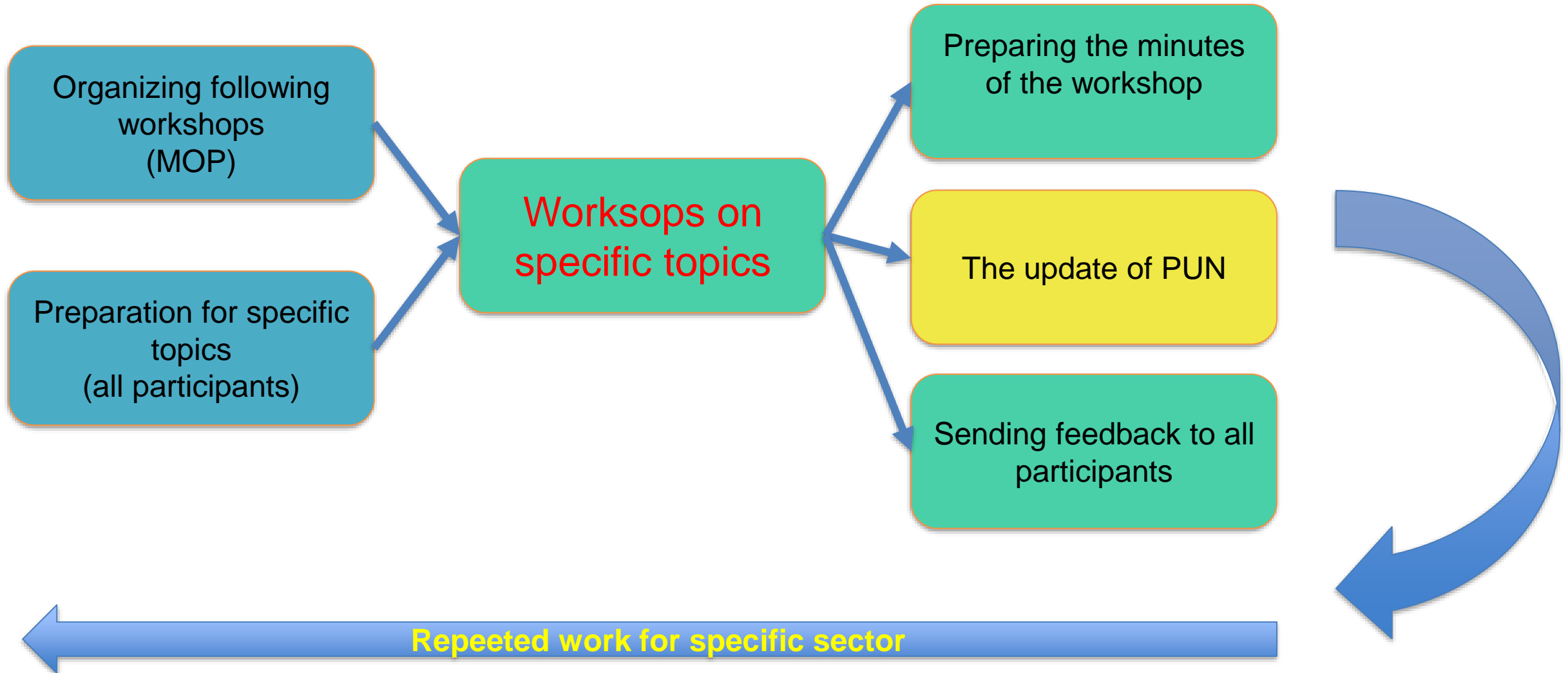
Coordination with stakeholders and organizing introductory meeting

Preparation of working documents and presentations

Introductory meeting

Done for each sector

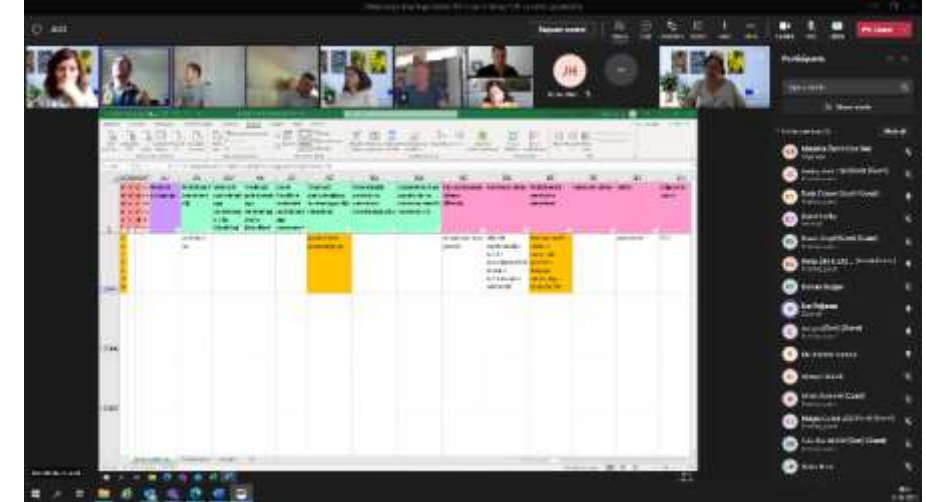
C.3.1: Preparation of the draft Natura 2000 Management Programme for the new financing period and its adoption



C.3.1: Preparation of the draft Natura 2000 Management Programme for the new financing period and its adoption

After each sector -> **review of work done**
(objectives and proposed measures)

Extensive work on management and update of data performed.



Priprava PUN 2022-28: sektorski sestanki/delavnice

6.8.2021; 8.10.2021

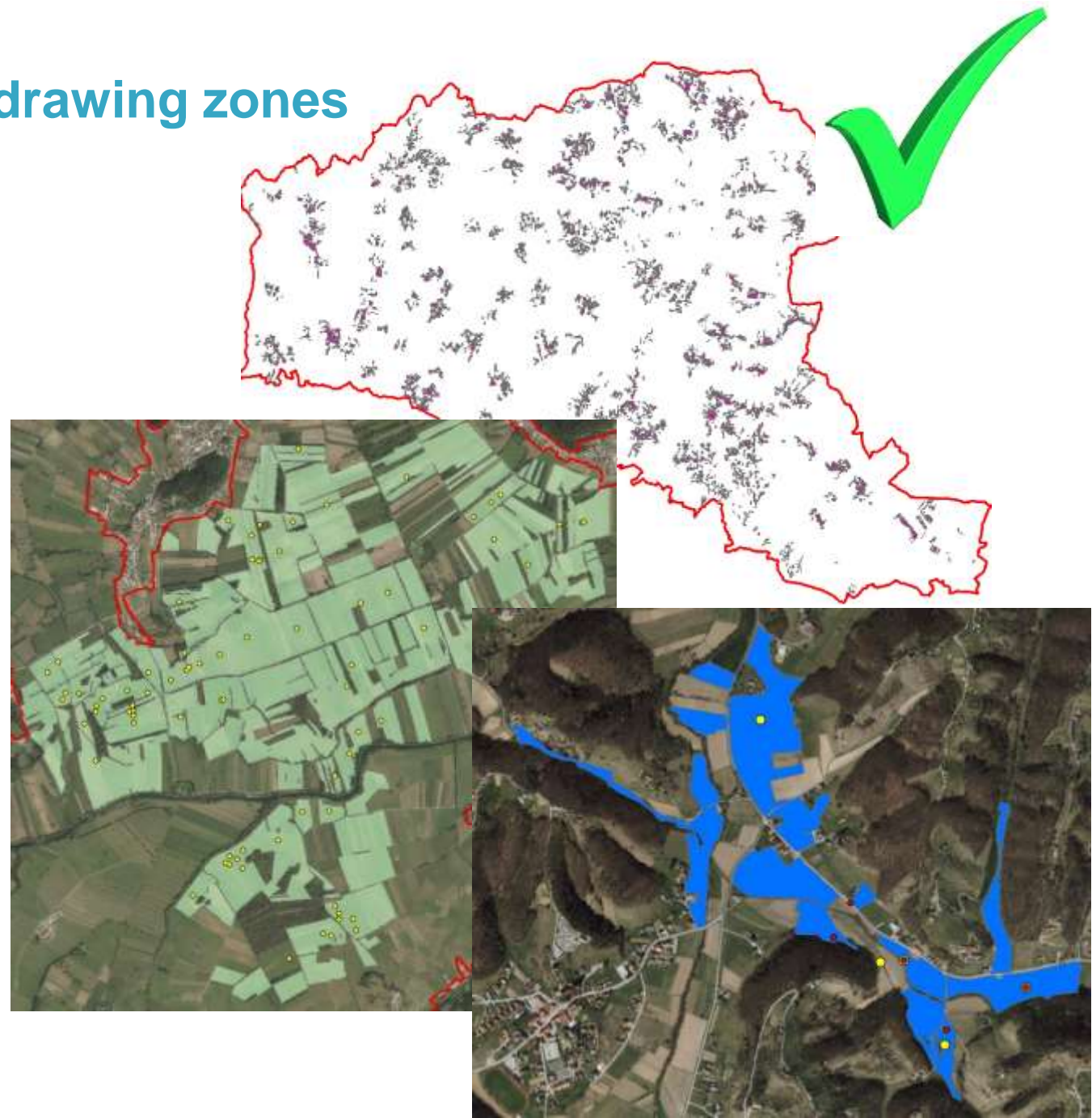
Legenda:

- **Zeleno** označen datum – izvedeno
- **Sivo** označena oseba (vabljen, a se ni udeležil)
- **Rdeče** – zadeva še ni rešena

Zap. št.	Datum dogodika	Sektor	MOP	ZRSVN	Vabljeni	Namen, cilj	Preverjanje dopolnitiv / Navedbi
1	18.9.2019	Ribištvo 1	Ida Nina Grego Klavdija (Ana) Vesna	Martina Kačičnik Jančič, Tanja Kotar Stančič, Marej Košarčič , Miha Naglič	CKFF: Marijan Gosarčič ZFRS: Masa Čadež Aljaž Janič, Danilo Puškarčič – vonja mlad. r. Diana Marguš	Obravnavanje vsebine – tem z dodatki – 1. del tiskane postre, bolon, guba, platnica, pohra	Preverjeno – brez pripomb. Nedostopno – bo se poseljal sestanek v MČCI in ZFRS
2	18.9.2019	Varstvo narave 1	Ida, Maja, Nina, Grego, Ana, Vesna, Suzana, Andrej, Julijana	/	/	Interno SDN usklajevanje – priprava sprememb PUN in statist. MOP.	Potrjen dokument Statistič MOP.
3	26.9.2019	Ribištvo 2	Ida Nina Vesna	Martina Kačičnik Jančič, Tanja Kotar Stančič, Marej Košarčič , Miha Naglič	CKFF: Marijan Gosarčič NIB: Matjaž Berdančič ZFRS: Masa Čadež Duša Zajbec Luka Mrzelj Diana Marijuč Aljaž Janič (Marej) – di Danilo Puškarčič Aljaž Janič	Obravnavanje vsebine – tem z dodatki – 2. del (bolon, rakli)	Preverjeno – ostalo brez pripomb. ZRSVN – Najmanjšo usklajevanje vstika za sulca – brez ustajaljenja (nova dikcija) – ni usklajeno tudi za ostale vrste.
4	28.9.2019	Varstvo	Ida, Nina, Vesna	Martina Kačičnik	/	Interno usklajevanje po	Preveri Nite – Preverjeno, sk

C.3.1: Conacija – drawing zones

- **Preparation (drawing) of zones: graphic determination of habitat of species/HT:**
 - Zones of species habitat and HT,
 - reference zones (new for Programme)
- more than 2500 **newly drawn zones (1339 sp.z.+ 1184 ref.z)**
- Inclusion in Natura 2000 Management Programme
- New zones were used for updated implementation area (shape) for the following RDP measures
- Public release of both PUN 2023-2028 and zones till the end of 2022



C.3.1: Preparation of the draft Natura 2000 Management Programme for the new financing period and its adoption

Activities that still need to be performed:

- Preparation of the final version of PUN 2022-28
 - Finishing the text of PUN document
 - Prepare all other appendixes (still some discussions)
- Public consultation
 - Organizing events,
 - Review of comments and update PUN
- Proofreading, translation
- Natura 2000 Management Programme 2022-28 adopted by the government (formal procedure)



C.3.2: Preparation of the draft Natura 2000 Management Programme for the new financing period and its adoption

Deliverables:

- ✓ Identification of possibilities for financing measures for Natura 2000 in the new financial framework
- ✓ Objectives and measures from Natura 2000 Management Programme integrated into national and /or regional operational Programmes 2021-2027 (OPs) for drawing EU funds (esp. agricultural, structural, cohesion, fishery fund,...)
- ✓ Operational programmes for drawing EU funds 2021 – 2027 approved with Natura measures integrated
- ✓ Guidelines for financing measures listed in the draft Natura 2000 management Programme 2022-28

ongoing



**ENHANCED
IMPLEMENTATION OF
PUN 2000 MEASURES ON
THE FIELD in
AGRICULTURE**



A.4.1 PREPARATORY ACTIONS FOR ENHANCED IMPLEMENTATION OF PUN 2000 MEASURES ON THE FIELD

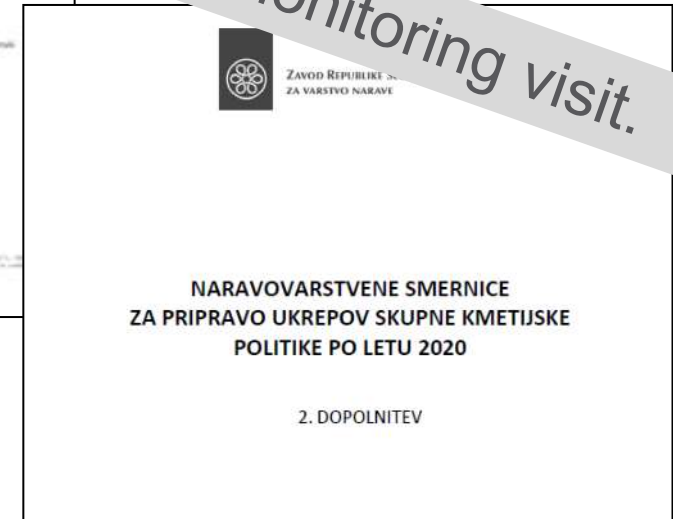
Sub-Action A.4.1 - agriculture

Deliverables - activities performed:

- **Overview of best practices of implementations of measures**
 - ZRSVN, KGZS, KGZs and MKGP
 - 2 workshops organized by ZRSVN
- **Revision of Common Agricultural Policy (CAP) measures of period 2014-2020**
 - ZRSVN and experts (8 meetings were realized)
 - Included in Nature protection guidelines for the CAP Strategic plan of Slovenia
 - Guidelines will be modified in regard of the new proposal of the CAP Strategic plan of Slovenia



Already presented in last monitoring visit.



Main knowledge gaps on species and HT - agriculture



živi
Z NATURO 2000

Vrzelj v znanju, potrebe po raziskavah
ter predlogi za izboljšanje upravljanja
območij Natura 2000 na področju
kmetijstva

V okviru projekta:

LIFE integrirani projekt za okrepljeno upravljanje Nature 2000
v Sloveniji (LIFE17 IPE/SI/000011, LIFE-IP NATURA.SI)

Akcija A.4.1

- *Beneficiaries involved*
 - ZRSVN, KGZS, MOP and MKGP
 - Finished in march 2022
- species/HT:
 - Baseline studies, development and establishment of monitoring
 - Study of proper management and monitoring of impacts of nature conservation actions
 - Study of specific elements / structures in agr. landscape
 - Additional studies of species
- Needs for upgrading measures in agriculture in SP



A.4.1: Renewed and updated implementation area (shape) for the following RDP measures relating to maintenance of grassland habitats for birds and wet meadow, maintenance of special grassland habitats, maintenance of grasslands for butterflies



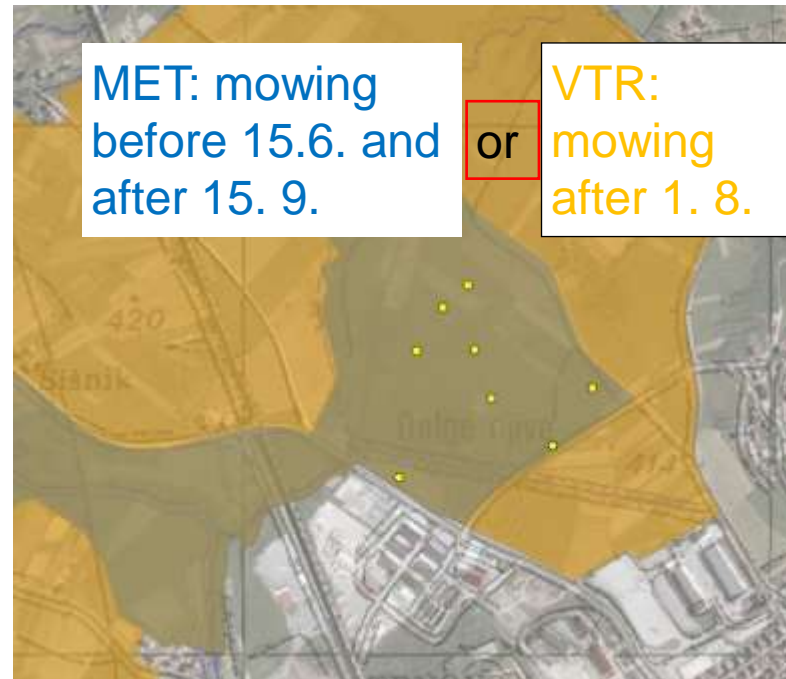
- **Shapes finished** - **will be enclosed to final version of Strategic Plan for CAP 2023-2027**
- Revision of management and conservation status of species/HT in Natura 2000 areas:
 - new shapes for existing and newly formed measures: HAB, mHAB, kraški travniki & pašniki, VTR, Natura 2000 payments
- overlap of measures – defining priorities
- „Confidential information“ – important for future management of nature in agricultural landscape, public release with new CAP 2023-2027
- Determination of target areas for measures (ha) according to existing methodology

A.4.1: Renewed and updated implementation area (shape) for the following RDP measures relating to maintenance of grassland habitats for birds and wet meadow, maintenance of special grassland habitats, maintenance of grasslands for butterflies

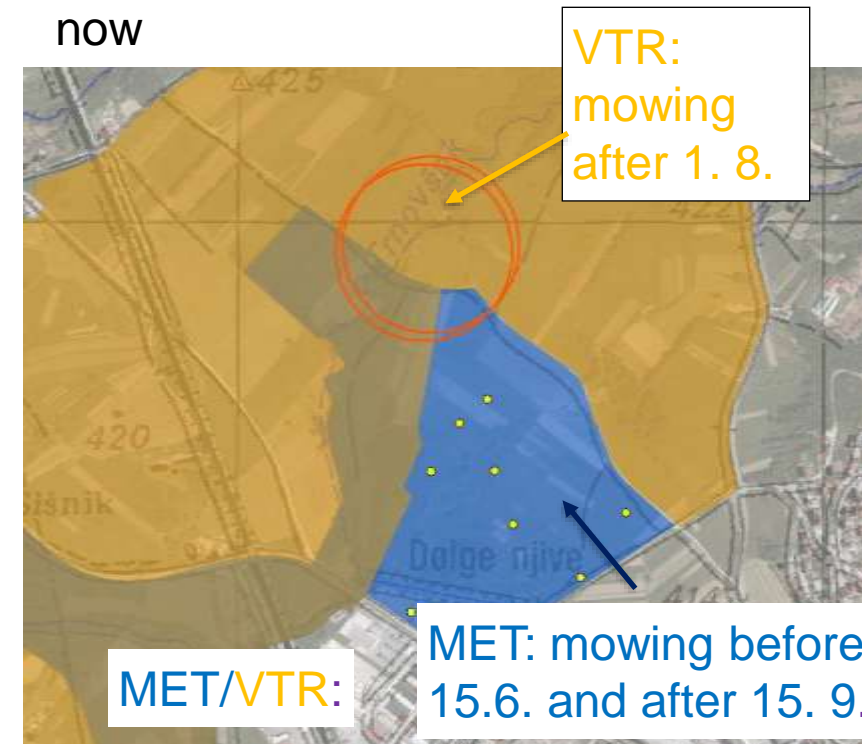
Example of **fine tuning** of implementation area:

-  Corncrake (*Crex crex*)
-  Scarce large blue (*Maculinea teleius*)

before



now



A.4.1 PREPARATORY ACTIONS FOR ENHANCED IMPLEMENTATION OF PUN 2000 MEASURES ON THE FIELD

Sub-Action A.4.1 - agriculture

- **Study visits** (1 for LIFE or non-LIFE projects) regarding best practices for solving Natura 2000 issues in the agricultural areas
 - Best practices regarding management of dry karts meadows.
 - Study visits of projects Za Kras (ERDF) and DINALPCONNECT (Interreg) on 17. 6 – Info day.
 - Field visit of sites where forrest enchroachment has been eliminated and dry meadows established
 - Important practices for project activities in Slovenska Istra.



Foto: Elena Štender

A.4.1 PREPARATORY ACTIONS FOR ENHANCED IMPLEMENTATION OF PUN 2000 MEASURES ON THE FIELD

Sub-Action A.4.1 - agriculture

Other activities performed:

- **Remote sensing of grasslands (LIFE) and landscape features** (complementary National Climate fund)
 - *both results are being updated*
 - *Habitat type mapping for calibrating the results of remote sensing has been ordered*



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA OKOLJE IN PROSTOR



Ime projekta: LIFE integrirani projekt za okrepljeno upravljanje Nature 2000 v Sloveniji (LIFE-IP NATURA.SI, LIFE17 IPE SI 011)

Akronim projekta: LIFE-IP NATURA.SI

Šifra projekta, številka pogodbe in identifikacijska številka: LIFE17 IPE/SI/000011

Project title: LIFE integrated project for enhanced management of Natura 2000 in Slovenia

Project acronym: LIFE-IP NATURA.SI

Contract number: LIFE17 IPE/SI/000011

Naslov projekta: LIFE integrirani projekt za okrepljeno upravljanje TRAVNIŠČNIH HABITATNIH TIPOV Z DALJINSKIM ZAZNANJEM IN EKSTENZIVNIM TRAVNIŠČNOSTVOM

Št. pogodbe: S-IX-266/12-O-19/DE

* LIFE integrirani projekt za okrepljeno upravljanje Nature 2000 v Sloveniji (LIFE17 IPE/SI/000011) sofinancirajo Evropska unija preko programa LIFE, Ministrstvo za okolje in prostor ter partnerji. Ta vsebina ne odraža nujno mnenja Evropske unije.

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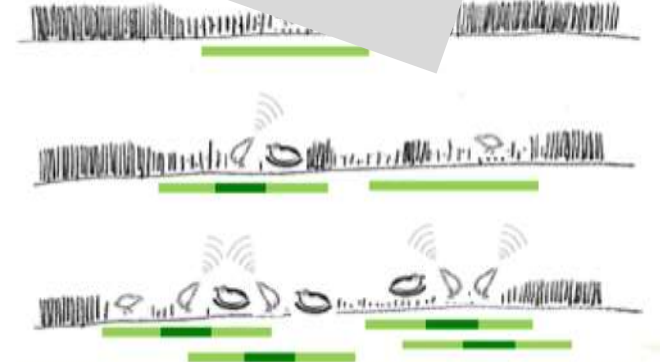
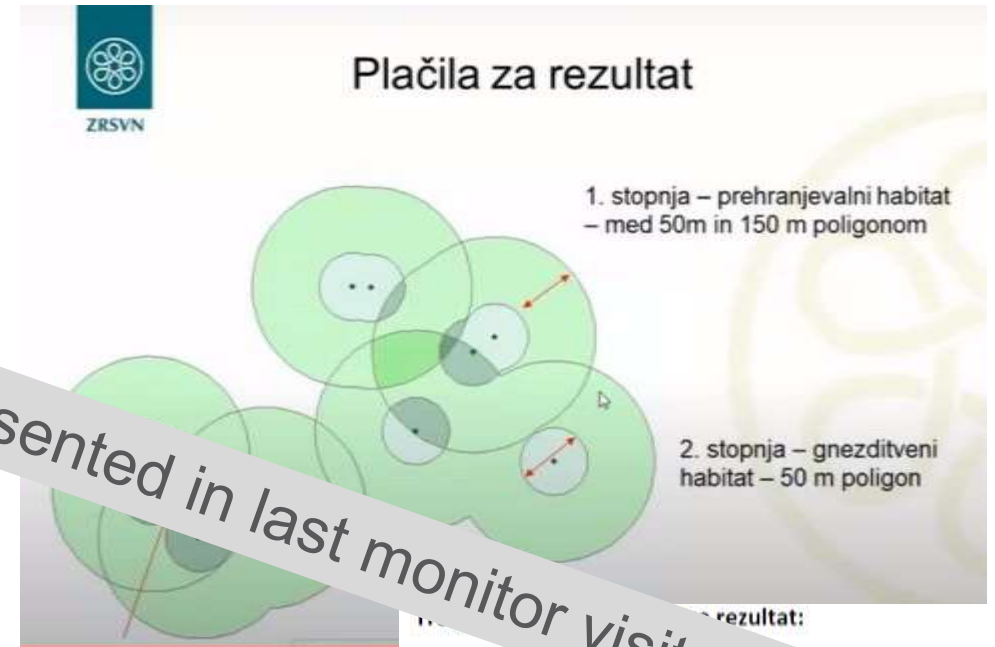
Already presented in last monitor visit.

A.4.1 PREPARATORY ACTIONS FOR ENHANCED IMPLEMENTATION OF PUN 2000 MEASURES ON THE FIELD

Sub-Action A.4.1 - agriculture

Complementary activities/funds:

- *Testing the two-stage semi result based AECM intervention (Birds of wet meadow FARFD – Part of RDP in 2022*
- *Targeted research project for updating and revising the result of remote sensing of woody landscape features*
- *Result based AECM proposal in the Strategic plan for CAP 2023-2027 (continue of LIFE to Grasslands result based measure)*



C.4.1 ENHANCED IMPLEMENTATION OF PUN 2000 MEASURES ON THE FIELD

Sub-Action C.4.1 - agriculture

Deliverables:

- ✓ A model of a result-oriented CAP measure for grasslands December 2022
- ✓ Advisory plan (Agricultural activity plan) for IP project area “grasslands of Štajerska Region”
- Advisory plan (Agricultural activity plan) for IP project area Slovenska Istra December 2023
- At least 400 consultations made by the end of the project (200 per each grassland IP area) 2026
- Advisory plan (Agricultural activity plan) for Ljubljansko barje 2026

Milestones:

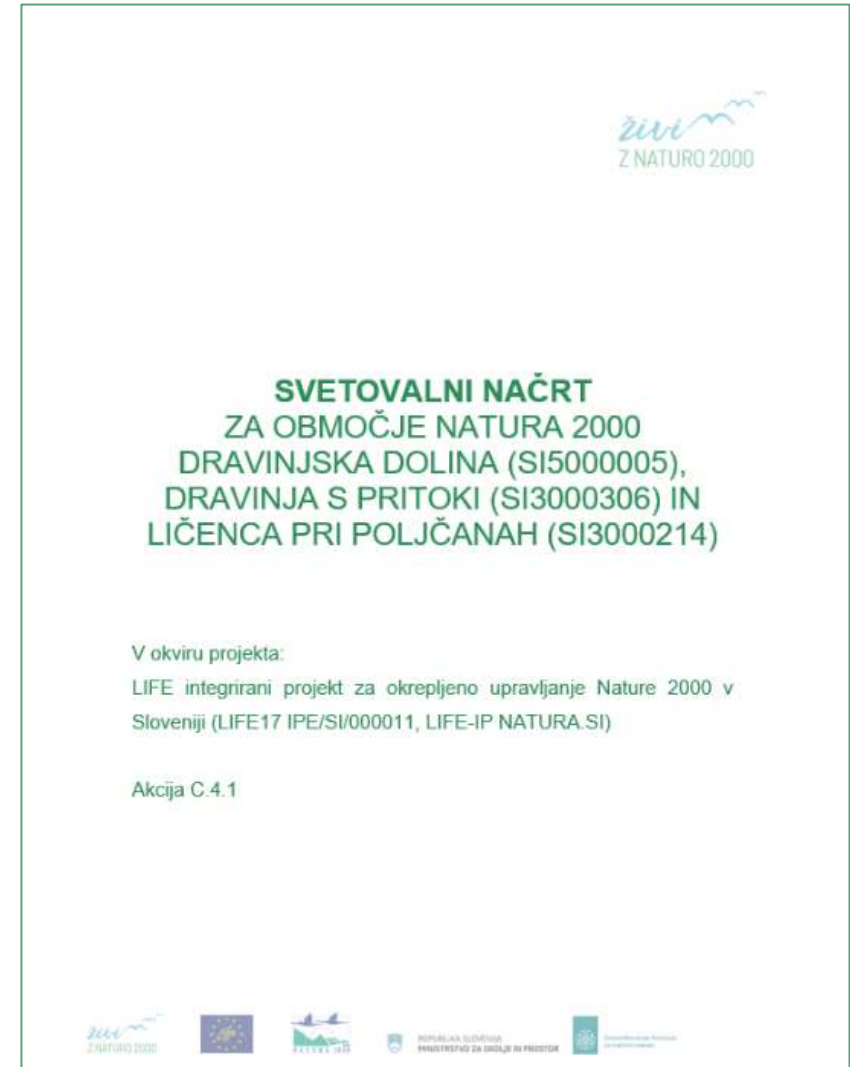
- ✓ Proposal of advisory plan for KGZ Ptuj region of “*IP area grasslands of Štajerska*” consolidated and test implementation started October 2022
- Proposal of advisory plan for KGZ NG, Koper region of “*IP area Slovenska Istra*” consolidated and test implementation started June 2023

C.4.1 ENHANCED IMPLEMENTATION OF PUN 2000 MEASURES ON THE FIELD

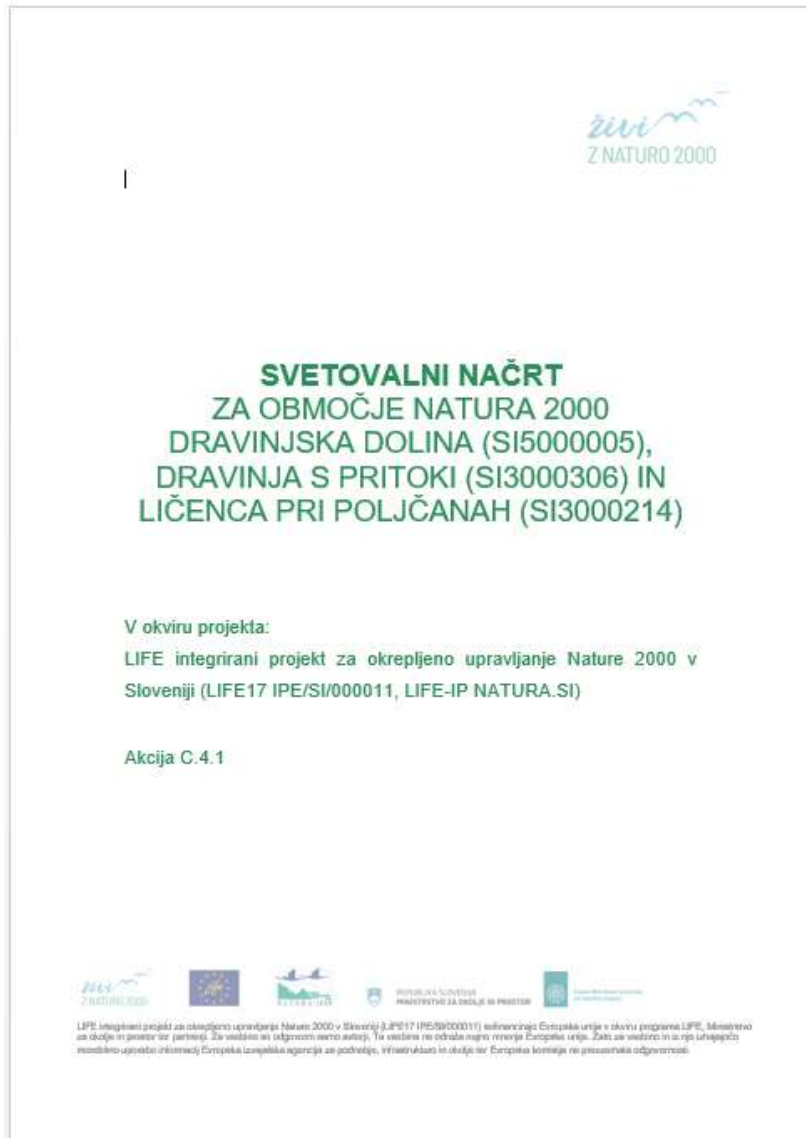
Sub-Action C.4.1 - agriculture

Deliverables - activities performed:

- **A model of a result-oriented CAP measure for grasslands:**
 - two-stage semi result based AECM intervention (Birds of wet meadows) part of CAP Strategic plan
 - a measure for dry grasslands designed in LIFE to Grasslands is part of CAP Strategic plan
- **Proposal of advisory plan**
 - for KGZ Ptuj region of *“IP area grasslands of Štajerska”*
 - ✓ Dravinjska dolina, Dravinja s pritoki & Ličenca pri Poljčanah **finished**
 - Natura 2000 area Volčke **finished**.



C.4.1: Advisory plan (Agricultural activity plan) for IP project area “grasslands of Štajerska Region”



- Content:
 - Area for advising
 - Nature conservation point of view
 - Agricultural point of area
 - Implementation plan
 - Priority areas for HT, species of butterflies
 - Goals
 - Monitoring of the Impact of measures



C.4.1 ENHANCED IMPLEMENTATION OF PUN 2000 MEASURES ON THE FIELD

Sub-Action C.4.1 - agriculture

Other activities performed:

- *Proposed interventions in CAP Strategic plan (Results of A.3)*
- *Complementary Targeted research project Designing a result-based measure Colorful meadows – ends in march 2023*
- *EIP project Farming for the conservation of biodiversity reach meadows with knowledge transfer to farmers - started*

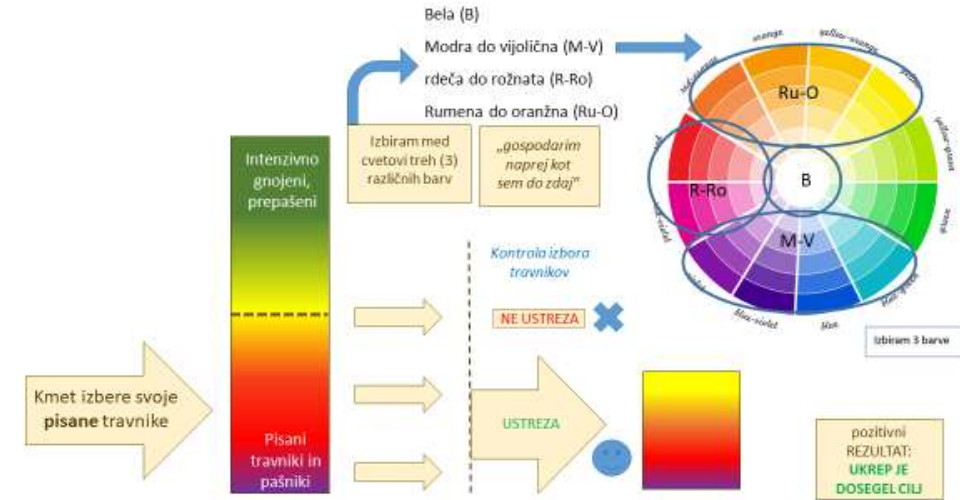
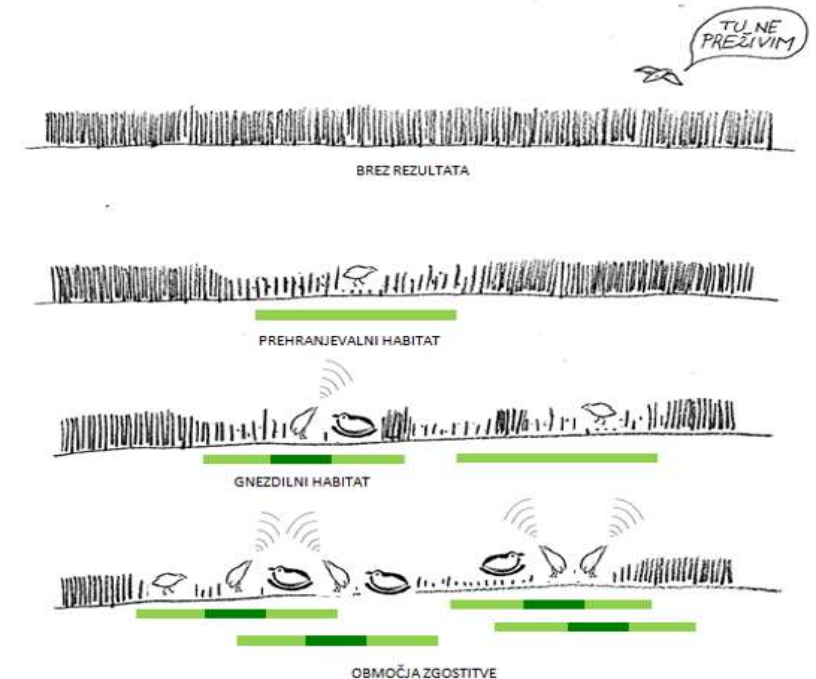
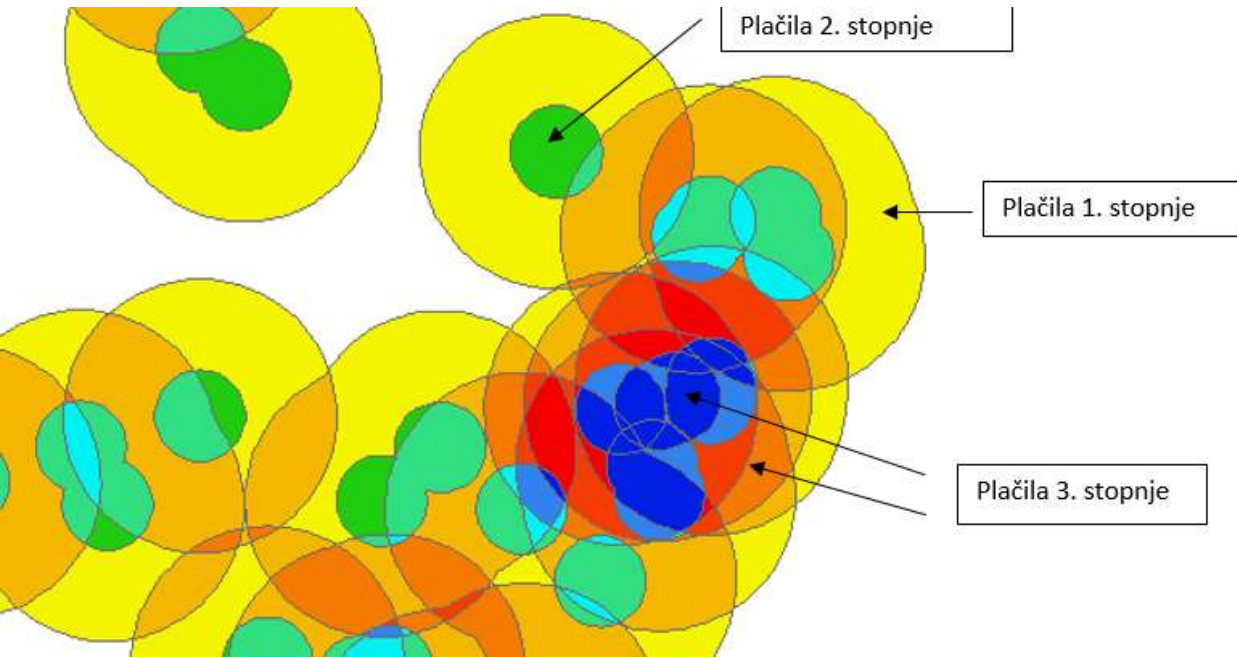


Foto: Life to Grasslands

C.4.1, C.5: A model of a result-oriented CAP measure for grasslands

Enhancement of
implementation of
complementary
project through
LIFE IP NATURA SI

- **2 step-mode measure for birds of wet meadows (VTR):**
 - part of CAP in 2022, already in under way
 - Management and result based part of the measure
 - Complementary funds for measure development (RDP project)
 - LIFE-IP:
 - 2x Education for Advisory service of Agricultural chamber of Slovenia (C.5): 10. and 15. 3. 2022
 - 2x Education for farmers (C.4.1): 24. and 29. 3. 2022
 - Materials for advisors and farmers prepared: leaflets, Q&A



C4.1 Additional analysis by CKFF

Larval habitat characteristics of eastern eggar

Eriogaster catax (Linnaeus, 1758) (Lepidoptera: Lasiocampidae)
in Slovenia

- Characterization of the larval habitat in Slovenia – for the first time (crucial for succesful conservation).
- Important variables documented: host plant species, the size of the web, position of the web on the plant and the general habitat characteristics.
- Habitat: scrubs, dry calcareous grasslands (...) with young LHP *Prunus spinosa* and *Crataegus* sp.
- Suggestions for management: small-scale active and dynamic disturbances (cycles of successions). In Slovenia, shrubs can only be removed in autumn and winter – can be devastating for *E. catax* (eggs removed with LHP).



ENHANCED IMPLEMENTATION OF PUN 2000 MEASURES ON THE FIELD in FORESTRY

Overview A.4.2

A.4.2 Preparatory actions for enhanced implementation of PUN measures in forestry

- Analysis of best practise cases in forestry (April 2020)
- Analysis of knowledge gaps (special emphasis on HT 9180) (March 2021)
- Description of best practice cases on the project web page (November 2020)
- Reports on 2 workshops on best practices with emphasis on improvements proposals- 2 excursions (June 2021)
- Proposals on knowledge improvements on species and habitat types (special emphasis on HT 9180) (March 2021)
- Report on expert meetings (at least two) on using existing experience and data for knowledge improvements about species and habitat types (3 x events, 57 experts) (November 2020)
- Proposals for best use of existing experience and data elaborated - 3 experts meetings, meeting with Slovenski državni gozdovi d.o.o. (SiDG d.o.o.) (December 2020)
- 2 workshops (1 private owners, 1 SiDG d.o.o.) organised by ZGS, MOP, & ZRSVN (June 2021)
- Spatial habitat modelling for selected beetles and owls by GIS & NIB (November 2021)



*Finished: **December 2021***

C.4.2 Enhanced implementation of PUN measures in forestry

- **Strategic planning in Slovene Forestry and Game management for the period 2021 – 2030**
Adoption in year 2022

- Prepared and granted the public presentation and procedure for 14 Strategic Forestry Management plan and its Environmental assessment;
- Prepared and granted the public presentation and procedure for 15 Long-term Hunting plans and its Environmental assessment;

Measures in the 14 Strategic Forestry Management plans and 15 Long-term Hunting plans were harmonized with PUN 2022 – 2028 objectives, guidelines and measures – coherence between actions C.3 and C.4.2.

Result: **Improved strategic forestry management planning for biodiversity**

1. Defined strategic objectives for dead wood biomass, habitat trees and non-intervention forests;
2. Integration of guidelines for quit zones for forestry and hunting;

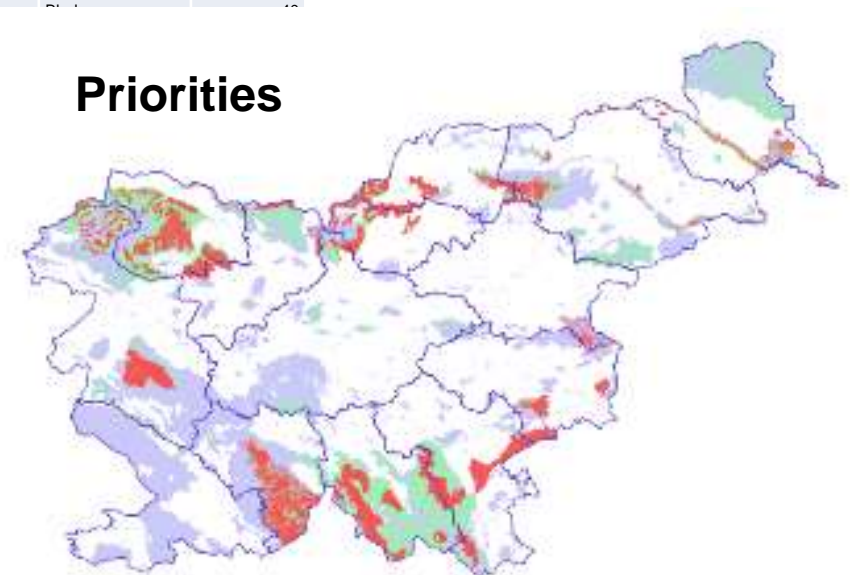
C.4.2 Enhanced implementation of PUN measures in forestry

Defined strategic objectives for non-intervention forests

	STANJE			DOLGOROČNI CILJ						
	Površina gozda	Gozdovi brez gospodarjenja		CILJ	Opomba in usmeritev	Gozdovi brez gospodarjenja		Gozdovi brez gospodarjenja		
Osrednje cone (iz UC krovnih vrst ptic)		Skupaj gozdni rezervati + ekocelice brez ukrepanja				Skupaj gozdni rezervati + ekocelice brez ukrepanja		Skupaj gozdni rezervati + ekocelice brez ukrepanja		
	ha	ha	%			ha	%	povečanje (ha)	GGO	povečanje (ha/opisno)
Jelovica osrednja	7.622	177	2,3	poveča se	Prednostno usmerjati v površine varovalnih gozdov z ustreznim habitatom in v preteklosti nizko intenzivno gospodarjene gozdove z drevjem nad 30 cm premera.	381	5,0	204	Bled Kranj	204 0
Julijske Alpe osrednja	25.229	1.226	4,9	poveča se	Prednostno usmerjati v površine varovalnih gozdov z ustreznim habitatom in izjemoma v preteklosti nizko intenzivno gospodarjene gozdove z drevjem nad 30 cm premera.	1.261	5,0	35	Tolmin Bled	0 35
Kamniško Savinjske Alpe osrednja	19.342	828	4,3	poveča se	Prednostno usmerjati v površine varovalnih gozdov z ustreznim habitatom in izjemoma v preteklosti nizko intenzivno gospodarjene gozdove z drevjem nad 30 cm premera.	967	5,0	139	Kranj Ljubljana Nazarje Slovenj Gradec	0 0 139 0
Karavanke osrednja	2.375	0	0	poveča se	Prednostno usmerjati v površine varovalnih gozdov z ustreznim habitatom in v preteklosti nizko intenzivno gospodarjene gozdove z drevjem nad 30 cm premera.	119	5,0			
Kočevsko osrednja	30.180	4.246	14,1	ohrani se	Znotraj GGO Novo mesto usmerjati v preteklosti nizko intenzivno gospodarjene gozdove z drevjem nad 30 cm premera na območju Poljanske gore in Globokih Gač.	4.246	14,1			
Mura - osrednja	7.484	30	0,4	poveča se	Usmerjati v površine varovalnih gozdov z ustreznim habitatom in v preteklosti nizko intenzivno gospodarjene gozdove ter obvodni pas z drevjem nad 30 cm premera.	149	2,0			
Pohorje - osrednja	9.969	521	5,2	ohrani se	/	521	5,2			
Snežnik - osrednja	23.943	1.541	6,4	ohrani se	/	1.541	6,4			
Trnovski gozd osrednja	10.343	866	8,4	ohrani se	/	866	8,4			
Drava	2.769	324	12,2	ohrani se	/	324	12,2			
Gorjanci - Radoha (Gluha loza)	11.196	276	2,4	poveča se	Odkupi se nekdanji gozdni rezervat Kobile in se ga ponovno razglasi za gozdni rezervat.	383	3,5 27 (Gluha loza)			
Kozjansko Dobrava - Jovski	3.632	3	0,1	poveča se	Prednostno usmerjati v ustrezen habitat nizko intenzivno gospodarjenih gozdov v Dobravi.	32	>1 3,0 (Dobrava)			
Krakovski gozd - Šentjernejsko polje	3.035	43	1,4	poveča se	Prednostno usmerjati v ustrezen habitat nizko intenzivno gospodarjenih gozdov.	90	3,0			

Priorities

Priorities



C.4.2 Enhanced implementation of PUN measures in forestry

Defined strategic objectives for dead wood biomass, habitat trees

		DOLGOROČNI CILJ					STANJE				
								Odmrta lesna biomasa			
Osrednje cone (iz UC krovnih vrst ptic)	Površina gozda	Ciljna količina v B in C razširjenem debelinskem razredu	Ciljni delež odmrle lesne biomase v LZ in B in C v LZ	Usmeritev	Opomba	CILJ	GGO	Št. B+C (stoječih in ležečih odmrlih)	Delež A+B+C v celotni LZ (%)	Delež B+C v celotni LZ	Število stoječih dreves B in C
	ha							št/ha	%	%	št/ha
Jelovica osrednja	7.622	Izloča se vsaj 5-7 stoječih dreves/ha v sestojih s prevladujočim drevjem premera nad 30 cm	več kot 5 50% v B in C	Smiselno se upošteva delež gozdov brez gospodarjenja in delež gozdov z nizko intenziteto gospodarjenja kjer je večji delež debele odmrle lesne biomase		poveča se	Bled	2	8,4	0,7	144
						poveča se	Kranj	5	6	1,9	
Julijske Alpe osrednja	25.229	Izloča se vsaj 5-7 stoječih dreves/ha v sestojih s prevladujočim drevjem premera nad 30 cm	več kot 5 50 % v B in C	Smiselno se upošteva delež gozdov brez gospodarjenja in delež gozdov z nizko intenziteto gospodarjenja kjer je večji delež debele odmrle lesne biomase		ohrani se	Tolmin	9	13,6	5	145
						poveča se	Bled	3	8,8	0,9	
Kamniško Savinjske Alpe osrednja	19.342	Izloča se vsaj 5-7 stoječih dreves/ha v sestojih s prevladujočim drevjem premera nad 30 cm	več kot 5 50 % v B in C	Smiselno se upošteva delež gozdov brez gospodarjenja in delež gozdov z nizko intenziteto gospodarjenja kjer je večji delež debele odmrle lesne biomase		poveča se	Kranj	7	7,7	3,8	164
						ohrani se	Ljubljana	13	10,4	5,9	
						poveča se	Nazarje	8	8,6	4	
						poveča se	Slovenj Gradec	3	6,1	1,8	

Improvement of guidelines and measures in Forestry Unit Management Plans

- Workshops with forest owners in the process of management plan preparation: Examples for FUMp Rogaška Slatina (SAC Boč, Haloze in Donačka gora), Jelovica (SPA Jelovica), Dolinsko (SAC and SPA Mura);
- Integration of IP LIFE actions and cohesion projects actions in the FUMp – Mura, Boč

Interventions on pilot sites – field work and changes of tree marking due to biodiversity demands – SAC Ličenca pri Poljčanah

[illegible]

C.4.2 Enhanced implementation of PUN measures in forestry

- In 2022: 4 workshops with employees and forest owners in the process of management plan preparation and Integration of IP LIFE actions and cohesion projects (Pohorka) actions in the FUMp : FUMp Radlje (SAC Zahodni Kozjak), Lobnica (SAC Pohorje), Vransko (SAC Savinja Grušovlje - Petrovče), Šmarje (SAC Ločnica)
(special emphasis on HT 9180 and HT 91E0)



**ENHANCED
IMPLEMENTATION OF
PUN 2000 MEASURES ON
THE FIELD in WATER
MANAGEMENT**



A.4.3 Preparatory actions for enhanced implementation of PUN measures in water management

List of project activities **finished**:

- ✓ Revision of water management measures of the period 2014-2020 – **July 2021**
- ✓ Analysis of key measures for water status improvement (WFD) and habitats improvement (HD) (synergetic and conflict situations) – **July 2021**
- Overview of best practices for Natura 2000 in the water management – **in implementation**
- ✓ Definition of best practices measures **finished**
 - Analysis of gathered cases, setting of criteria **in implementation**
 - Approx. 600 working hours, more than 260 working hours in 2022; 7 people (narrow and wider project teams); working group established (regular meetings on the week basis); 8 DRSV sectors implemented (additionally 1 sector included in 2022); 7 concessionaries implemented
 - more than **200 examples** of sustainable river engineering and maintenance works gathered

A.4.3 Preparatory actions for enhanced implementation of PUN measures in water management

Proposal for adjustment and coordination of activities in actions A.4.3 / C.4.3 and on pilot areas (A.1.3 & A.1.4 / C.1.4)

Aim:

- ✓ To include executed measures with nature conservation objectives on pilot areas in the Catalogue of best practices
- ✓ Transfer of Knowledge (from project to water management companies & other projects)
- ✓ To promote best practices for Natura 2000 in water management.

A.4.3 Preparatory actions for enhanced implementation of PUN measures in water management

Proposal for adjustment and coordination of activities in actions A.4.3 / C.4.3 and on pilot areas (A.1.3 & A.1.4 / C.1.4)

Aim:

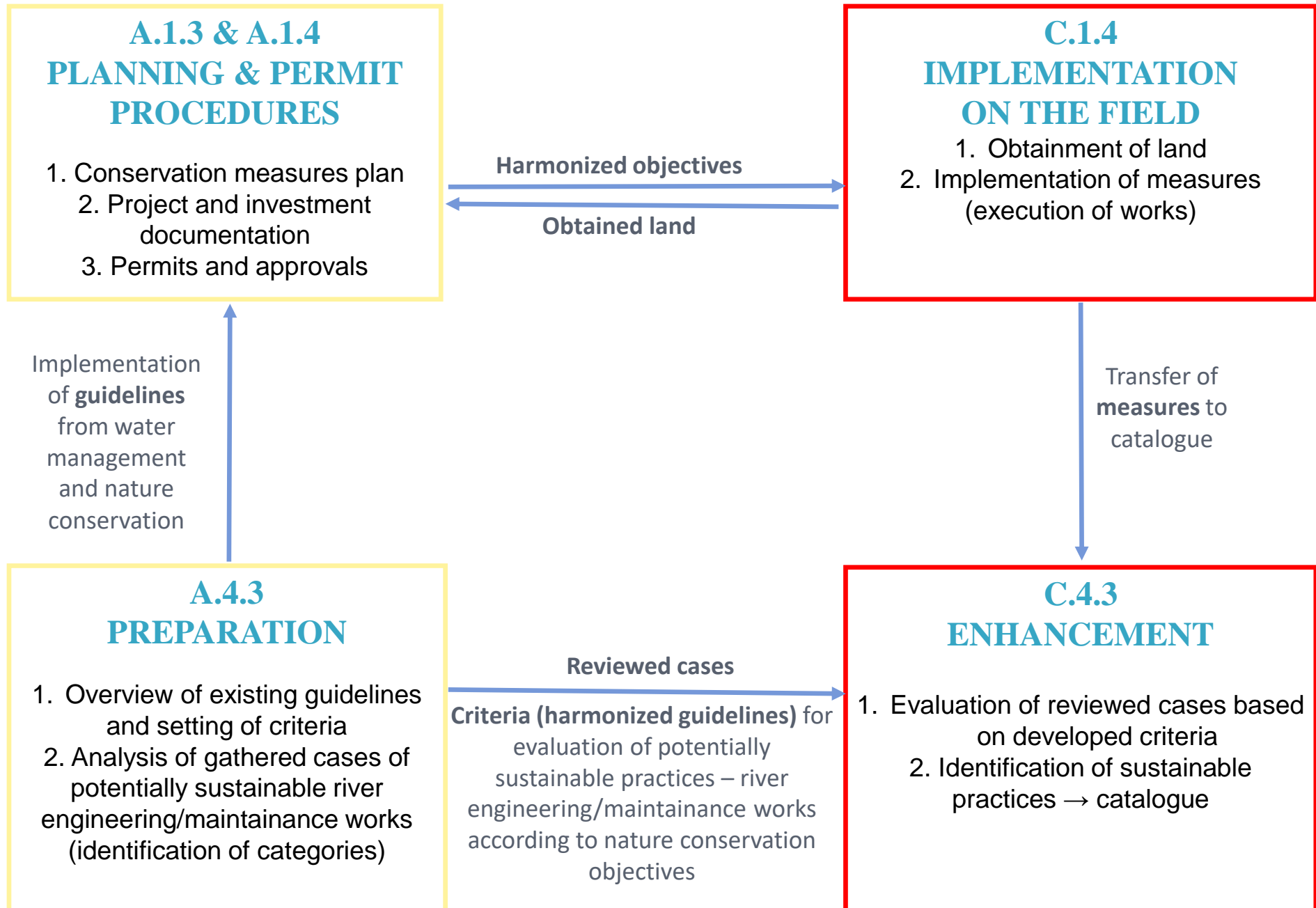
- ✓ To include executed measures with nature conservation objectives on pilot areas in the Catalogue of best practices
- ✓ Transfer of Knowledge (from project to water management companies & other projects)
- ✓ To promote best practices for Natura 2000 in water management.

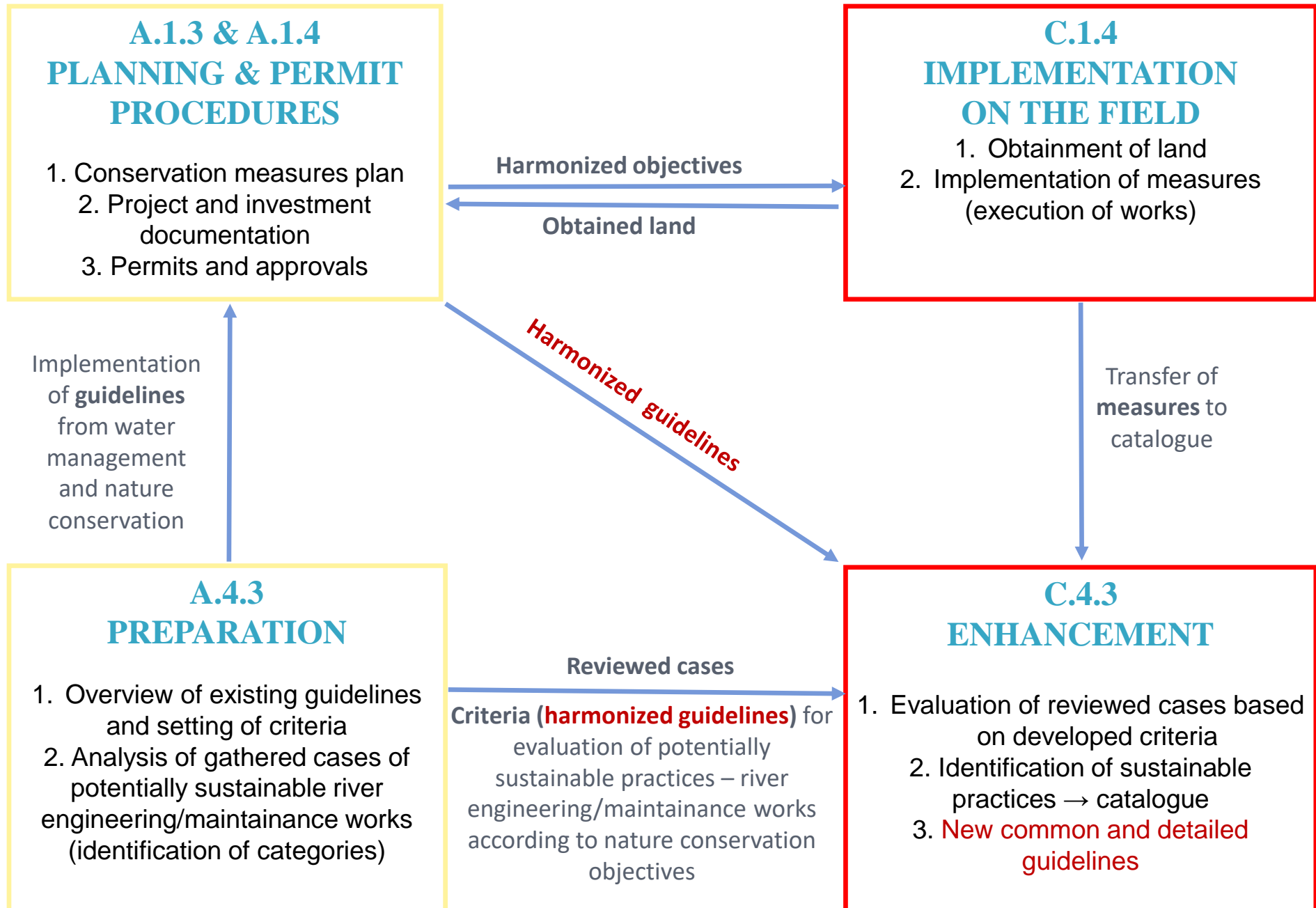


Coordination of deliverables and completion date

Overview of best practices for Natura 2000 in the water management

- Definition of best practice measures (setting of criteria) (dec.2022)
- **Identification of best practice measures, preparation of catalogue of best practices (water management): the completion date coordinated by C.1.4 (dec.2026)**
- Common guidelines for water management (dec. 2024)
- Detailed guidelines for water management – Dravinja RB (dec. 2025)





A.4.3 Preparatory actions for enhanced implementation of PUN measures in water management

River engineering/maintenance works - description sheet

Type (aim) and category, Location, time frame of implementation, description, status before/after, overview situation, necessary maintenance work, funding, contractor, inclusion of ZRSVN opinion, monitoring after implementation etc.



Ime ukrepa:	Ribja steza – SAVINJA v Šeščah – sanacija drče v km 36+365			
Vrsta ukrepa:	Vzpostavitev prehodnosti za vodne organizme			
Umestitev v kategorijo (označi z X v desnem stolpcu):				
izgradnja/rekonstrukcija prečnega objekta				X
odvzem naplavin				
ureditev prečnega profila				X
obrežno zavarovanje				X
vzpostavitev/zasaditev obrežne vegetacije				X
vzdrževanje obrežne vegetacije				X
vzpostavitev/ohranjanje obrežnega pasu				
vzpostavitev/ohranjanje razlivnih površin				
izboljšanje stanja habitatov				X
drugo				
Ime porečja ali povodja:	Savinja			
Ime in šifra VTPV:	VT Savinja Letuš – Celje (SI16VT70)			
Ime naselja v bližini:	Šešče			
Lokacija ureditve (X, Y koordinate):	začetek	509974, 121830	konec	
Dolžina odseka:				
Časovni začetek	2018	in konec	2018	izvedbe ureditve.
Namen ureditve:	Stabilizacija nivelete in vzpostavitev prehodnosti za vodne organizme			
Cilj ureditve:	Prehajanje vodnih organizmov			

A.4.3 Preparatory actions for enhanced implementation of PUN measures in water management

Collected cases

With aim to improve/protect water regime, water status and habitats (water management & nature conservation goals)

9 categories of River Engineering and Maintenance works:

- Water flow regulation (cross-profile constructions as dams, weirs, impoundments etc.)
- Change in river profile (deepening, widening, narrowing, channelisation and straightening of river bed)
- Bank reinforcement and embankments (longitudinal constructions)
- Sediment extraction (gravel mining)
- Establishing riparian vegetation (planting)
- Maintenance of riparian vegetation
- Establishing/protecting riparian zone (creating buffer strips)
- Establishing/protecting floodplains (connection of wetlands, oxbow lakes etc.)
- Habitat improvement (nature conservation objectives)

A.4.3 Preparatory actions for enhanced implementation of PUN measures in water management

Setting of criteria

- Review of the guidelines DRSV, ZZRS, ZRSVN in the field of interventions on watercourses and classification by categories of interventions (link to selected cases)
- Grouping according to similar requirements (integration of nature protection guidelines into water management guidelines)

Naravovarstvene usmeritve za namen podrobnejšega načrtovanja in izvajanja posegov na vodotokih na vodnem območju Donave

REPUBLIKA SLOVENIJA
MINISTRSTVO ZA OKOLJE IN PROSTOR
DIREKCIJA REPUBLIKE SLOVENIJE ZA VODE
Mariborska cesta 35, 3000 Celje

T: 01 478 31 00
E: govorni@go.si
www.dr.gov.si

SE VODOTOKE NE POREČJU MURE:

Obrežna vegetacija
jo naj se upravlja na način, da se ohranja sklenjen pas obrežne lesne Obrežno zarast se lahko redči, odstranjuje podira in viseča drevesa ist v strugi, ki ovirajo pretočnost, golosekov (popolne odstranitve) je naj se ne izvaja.

Zavarovanja
zemljišča, ki so ogrožena zaradi rečne bočne erozije naj se prouči enjave z drugimi zemljišči, ki so že v lasti Republike Slovenije. ni obstoječih obrežnih zavarovanj ali drugih vodnih zgradb, se lahko adbe vzpostavlja izključno za zavarovanje infrastrukture in objektov v r naj se na neutrenjih odsekih ohranja procese naravne rečne

PRILOGA 6 Splošnih smernic s področja upravljanja z vodami

Usmeritve za načrtovanje ureditev na vodnih in priobalnih zemljiščih vodotokov z vidika preprečevanja poslabšanja ekološkega stanja voda

KATEGORIJE SONARAVNIH UREDITEV	DRSV	ZZRS	ZRSVN	SMERNICE - izvedba (poseg, material, način)
		1. ohranitev obstoječega naklona dna struge, da je ohranjena prehodnost za vodne organizme 2. pragovi morajo imeti preko širine struge znižana	1. izvedba novega prečnega objekta v obliki hrapave drče izključno z namenom preprečevanja poglabljanja, pri kateri je višinska razlika gladine pred in po drči manjša od 20 cm, v drugih primerih se novih prečnih objektov ne vzpostavlja 2. prepoved vzpostavitve novih prečnih objektov 3. novih obrežnih zavarovanj ali drugih vodnih zgradb se ne načrtuje 4. ureditev obstoječih prečnih objektov na način, da bodo prehodni za ciprinidne vrste rib v času nizkega vodostaja	1. nove neprehodne prečne objekte se ne gradi in nepotrebnih prečnih objektov se ne obnavlja 2. izgradnja/rekonstrukcija čim nižjega prečnega objekta in čim krajšo dolžino zadrževalne tar zadrževalni čas voda

A.4.3 Preparatory actions for enhanced implementation of PUN measures in water management

Analysis of collected cases

- Identifying primary (according to main purpose of the intervention) and additional (secondary) categories (elements of other categories recognized as sustainable)
- Review of classification into categories (check whether labels justify the classification)

x	Primary category
x	Additional category
x	Review

Sonaravni posegi in ureditve	Sektor območja	Izgradnja/rekonstrukcija prečnega objekta (z vidika prehodnosti za vodne organizme in/ali premeščanja plavin)	Odvzem naplavin	Ureditev prečnega profila	Obrežno zavarovanje	Vzpostavitev/zasaditev v obrežne vegetacije	Vzdrževanje obrežne vegetacije	Vzpostavitev/ohranjanje obrežnega pasu	Vzpostavitev/ohranjanje razlinskih površin	Izboljšanje stanja habitatov (kreiranje novega habitata...)
Grušoveljski jez	SO Savinja	x								x
Šeška drča	SO Savinja	x		x	x	x	x			x
Vzdrževalna dela na Iški med Vrbljenami in Tomišljem	SO srednja Sava	x	x	x	x	x		x		x
Prag na Iški v Iški vasi 697/15 sonaravni prag	SO srednja Sava	x	x	x	x	x		x		x
Savski potok - P870/19 - odstranitev pragu + struga	SO srednja Sava	x	x	x	x	x		x		x
Sanacija Trboveljščice v Knezdolu, P-808/17	SO srednja Sava	x		x	x	x	x	x		
Sanacija jezov in brežin na Črnem potoku - P450/11	SO srednja Sava	x		x	x	x	x	x		x
VZDRŽEVALNA DELA NA ROŽIŠKEM POTOKU PRI HIŠI SELA 1A, P – 782/16	SO srednja Sava	x		x	x	x		x		x
GRADAŠČICA POD DVOROM – zgornja zajeda, P – 507/11	SO srednja Sava	x	x	x	x	x		x	x	x

A.4.3 Preparatory actions for enhanced implementation of PUN measures in water management

Other activities that need to be performed:

- Study visit for to LIFE or non-LIFE projects regarding best practices for solving Natura 2000 issues from water management point of view **in implementation**
 - planned in **Sept. 2022**, Austria, river Mura, project "Renaturation of the river Mur" in UNESCO biosphere reserve Lungau
 - established communication with UNESCO Biosphere Reserve Lungau
 - visiting and viewing the good practices of renaturation measures (e.g. meander restoration methods, passive measures to limit natural river erosion process, methods for supporting river banks, maintenance of measures), the experience in implementing the measures and in land purchase procedures - the collaboration with land owners, time component of procedures etc., impact on biodiversity

C.4.3 Enhanced implementation of PUN measures in water management

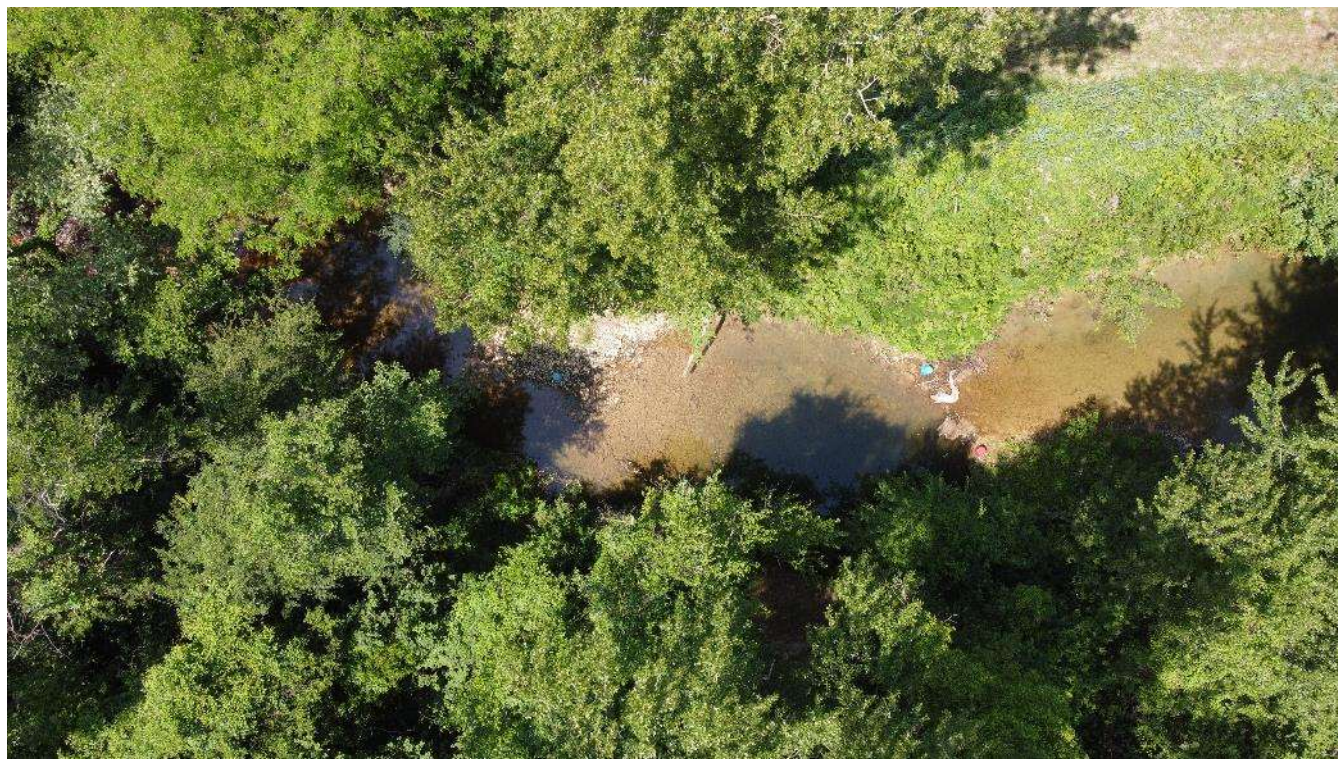
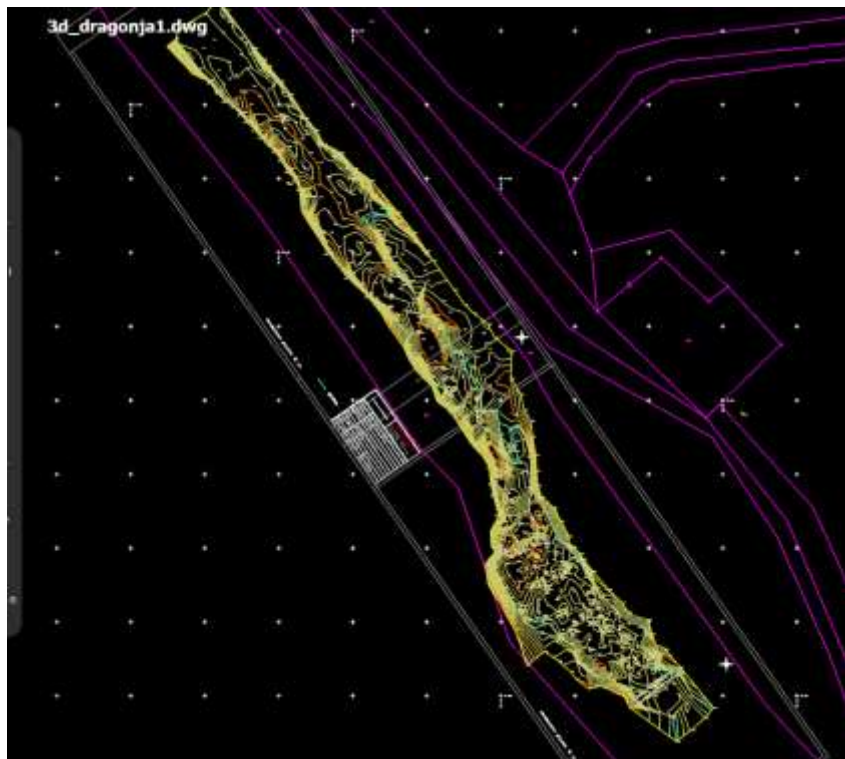
List of project activities that need to be performed:

- Common guidelines for water management for improved implementation of PUN 2000 (dec. 2024)
- Detailed guidelines for water management in “IP project areas”- Dravinja river basin (consideration of results of A.4 actions) (dec. 2025)
- **Identification of best practice measures, preparation of catalogue of best practices (water management): the final completion date coordinated by C.1.4 (dec. 2026), draft version (dec. 2024)**

A.4.3 action need to be finished, a new start date is planned for 2023.

C.4.3 Enhanced implementation of PUN measures in water management

Primarily habitat requirements of Italian barbel (*Barbus plebejus*), population assessment, effect of water abstractions on habitat in Natura 2000 area Slovenska Istra and guidelines for the management of the area.



C.4.3 Enhanced implementation of PUN measures in water management

Primarily habitat requirements of Italian barbel (*Barbus plebejus*), population assessment, effect of water abstractions on habitat of in Natura 2000 area Slovenska Istra and guidelines for the management of the area.

Activities that still need to be performed:

Analysis of collected data from fish sampling, model of habitat requirements, discharge measurements on Dragonja, inventory of environmental parameters on selected sections, habitat models on selected sections, determination of the water abstraction limitation.



TRAINING OF EMPLOYEES FOR BETTER MANAGEMENT OF NATURA 2000



C.5 TRAINING OF EMPLOYEES FOR BETTER MANAGEMENT OF NATURA 2000

Foreseen start date: **January 2020**

Actual start date: **September 2019**

Foreseen end date: **December 2026**

Actual (ant.) end date: **December 2026**

Name of the Deliverable	Deadline	
All presentations published on project website and available to interested public.	December 2026	In progress

Name of the Milestone	Deadline	
30 short lectures, 30 half day workshops and 30 short study trips organised	December 2026	In progress
6 all day conference and 6 all day study trip organised	December 2026	In progress
300 beneficiarie's employees trained in at least one topic	December 2026	In progress

C.5 TRAINING OF EMPLOYEES FOR BETTER MANAGEMENT OF NATURA 2000

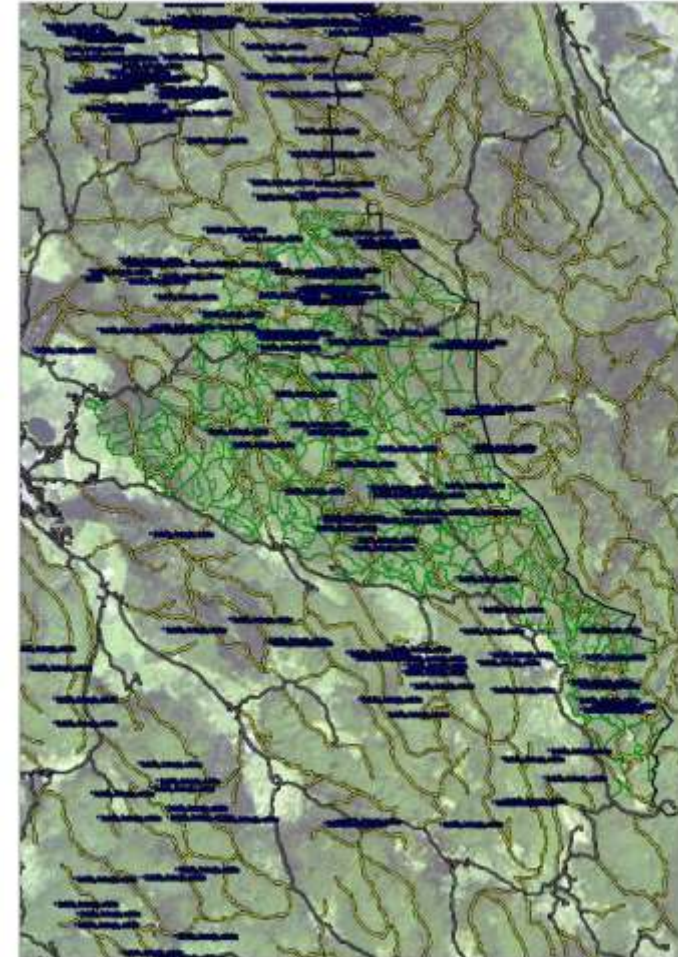
Expected results of action:

- | | |
|--|---------------|
| ✓ 1300/300 beneficiarie's employees trained in at least one topic | ✓ in progress |
| ✓ 11 short lectures (2 h events) attended | |
| ✓ 4/30 short lectures (2 h events) organised | ✓ in progress |
| ✓ 24 half day workshops (4 h events) attended | |
| ✓ 14/30 half day workshops (4 h events) organised | ✓ in progress |
| ❑ 0/30 short (4h) study trips with presentation of best practices on the field organised | delayed |
| ✓ 1/6 all day conference (6-8 h) organised | ✓ in progress |
| ❑ 0/6 all day study trip (6-8 h) with presentation of best practices on the field organised | delayed |

C.5 TRAINING OF EMPLOYEES FOR BETTER MANAGEMENT OF NATURA 2000

List of activities performed in 2022 :

- implementations of activities adapted to the conditions of Covid – 19
- **Plans for the fall 2022 prepared**
 - first set of training modules designed
 - management of water resources in the forests
 - training with inspectors for enhanced surveillance in nature
 - support for the LIFE NARCIS project – training of nature conservation employees



C.5 TRAINING OF EMPLOYEES FOR BETTER MANAGEMENT OF NATURA 2000

✓ 8/5 short lectures

- 1 training on advanced use of **QGIS** for MOP project team
- 5 internal training of **nature conservation** employees (MOP, ZRSVN, protected areas) about system of nature conservation (history, international agreements ...)
- 1 training for **planning and implementation of measures in forest habitat types** in Natura 2000 area

Zakonodaja EU s področja biotske raznovrstnosti

Vsebina, ki jo ureja zakonodaja EU na področju biotske raznovrstnosti

- ❖ Nabor vrst in obvladovanje ključnih groženj
- ❖ Vrstno varstvo
- ❖ Območno varstvo - ključnih območij
- ❖ Poročanje
- ❖ Genski viri

Vrste zakonodajnih in nezakonodajnih ukrepov

- Spreminjanje predpisov EU
- Postopki, povezani z njihovim izvajanjem
 - Smernice Komisije in sodna praksa
 - Integracija v druge politike EU
 - Ukrepi EU in njihovo financiranje
- Sprejemanje nove zakonodaje EU in sporazume

notifikacije

NOTIFICATION TO THE PARTIES

Notification

Follow-up on matters related to the post 2020 Global Biodiversity Framework

POSTOPEK DOLOČITVE NARAVNIH VREDNOT

YREDNOTENJE NARAVE
EVIDENTIRANJE NARAVNIH VREDNOT
ZRSVN

PRIDOBIVANJE PODATKOV O
PODZEMNIH JAMAH
jamarji, raziskovalni jam, fizične in
pravne osebe

ZBRIRANJE IN PREVERJANJE
PODATKOV O PODZEMNIH JAMAH
Inštitut za raziskovanje krasa SAZU

PRIPRAVA STROKOVNEGA PREDLOGA NARAVNIH
VREDNOT
predlagatelj po posvetu na državne/lokalne
glede režimo vstopa v jame
ZRSVN

stokovni del postopka

PRIPRAVA O DOLOČITVI
MOP

USKALJEVANJE PREDLOGA PRAVILNIKA
s strokovno komisijo in s pristojnimi resorji
MOP

SEZNANITEV LOKALNIH SKUPNOSTI
glede razviritve po posvetu na državne/lokalne
MOP

SPREJEM PRAVILNIKA O DOLOČITVI
NARAVNIH VREDNOT
minister MOP

Register naravnih vrednot - ATLAS OKOLJA

Marjan Debelak, Urbanistični inštitut, 1970: Julijske Alpe – regionalni prostorski načrt območij za posebne namene

The Natura 2000 and the Emerald networks

- Natura 2000 sites
- Candidate Emerald sites

NATURA 2000

C.5 TRAINING OF EMPLOYEES FOR BETTER MANAGEMENT OF NATURA 2000

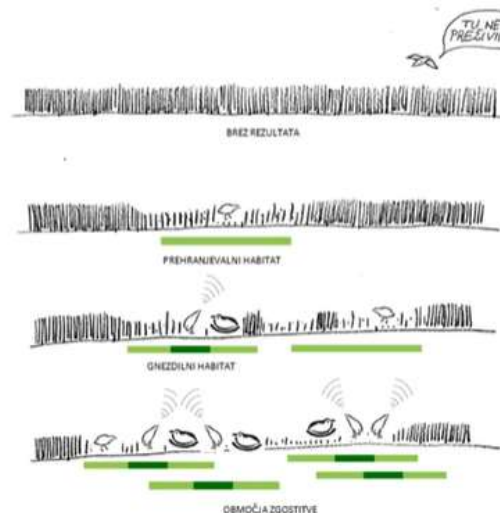
- 2 trainings for agricultural advisors about **improved KOPOP operation – VTR**, which targets birds species **corn crane** (*Crex crex*) and other ground nesting birds (ZRSVN)



Kakšna so plačila za rezultat?

Plačila za rezultat se dodeljujejo v treh stopnjah:

- 1. stopnja: prisotnost **prehranjevalnega habitata** kosca.
- 2. stopnja: prisotnost **gnezdilnega habitata** kosca.
- 3. stopnja: **območja zgostitve** prehranjevalnih ali gnezdilnih habitatov več različnih koscev.



C.5 TRAINING OF EMPLOYEES FOR BETTER MANAGEMENT OF NATURA 2000

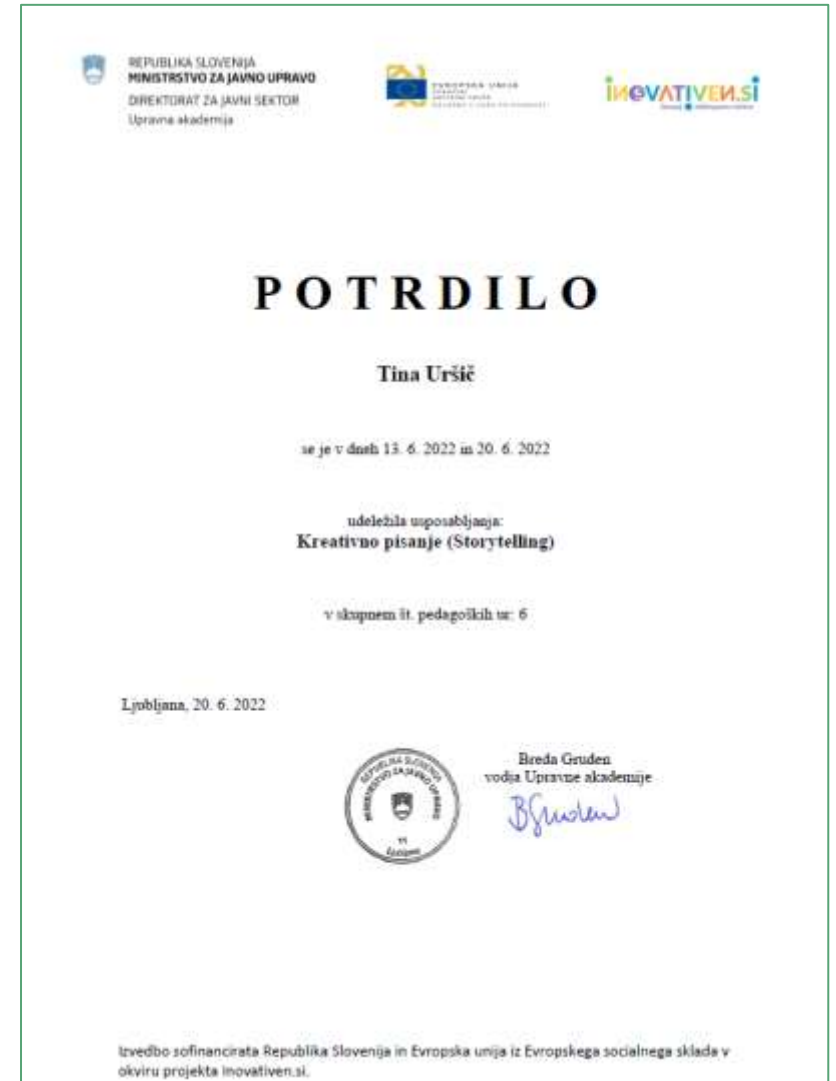
Training of employees for planning and implementation of measures (ZGS): Ecocells without measures and deadwood biomass, habitat trees

- More than **450** employees cooperating (all Regional Units and Local units)
- Good survey results and feedback
- Ongoing questions on implementation



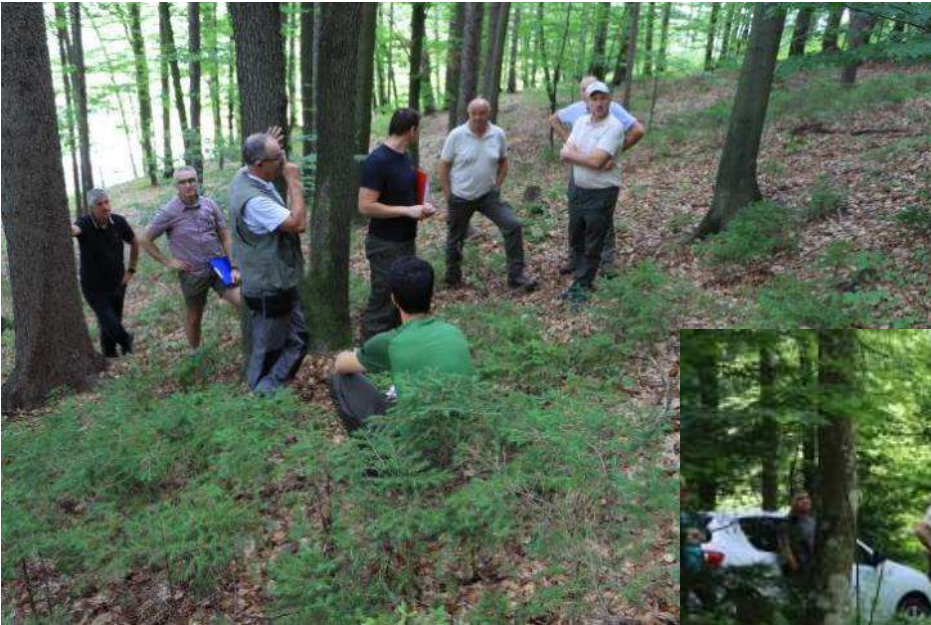
C.5 TRAINING OF EMPLOYEES FOR BETTER MANAGEMENT OF NATURA 2000

- ✓ **4/5 half day workshops**
- Training of employees (MOP) in various trainings (Facilitation; How to present with charisma; Creative writing)
- Continued with the boat master course on inland waters which is necessary for pelagic fish monitoring on larger watercourses – few employees (ZZRS) successfully completed the course



C.5 TRAINING OF EMPLOYEES FOR BETTER MANAGEMENT OF NATURA 2000

- **Complementary activities** (project Pohorka, public forestry service) : 6 study field trips - workshops with employees (ZGS) in the process of management plan preparation: FUMp Radlje (SAC Zahodni Kozjak), Lovrenc na Pohorju, Lobnica (SAC Pohorje), Vransko (SAC Savinja Grušovlje - Petrovče), Šmarje (SAC Ločnica), Rogaška Slatina (SAC Boč – Haloze – Donačka gora): **90 participants**



ENHANCEMENT WARDEN SERVICE FOR DIRECT SURVEILLANCE IN NATURE



C.6 ENHANCEMENT OF WARDEN SERVICE FOR DIRECT SURVEILLANCE IN NATURE

Foreseen start date: **June 2019**
Actual start date: **August 2019**

Foreseen end date: **December, 2026**
Actual (ant.) end date: **December, 2026**

Name of the Deliverable	Deadline	
Action plan for improvement and broadening of the existing DNPC network	February 2021 July 2022	completed
First program of work of nature protection wardens for period 2022-2023 prepared	December 2021 December 2022	in progress - delayed
Improved Action plan for improvement and broadening of the existing DNPC network – 2. phase	June 2023	not started yet
Second program of work of nature protection wardens for period 2024-2025 prepared	December 2023	not started yet
Third program of work of nature protection wardens for period 2026-2027	December 2025	not started yet
Improved Action plan for improvement and broadening of the existing DNPC network – 3. phase	June 2025	not started yet

C.6 ENHANCEMENT OF WARDEN SERVICE FOR DIRECT SURVEILLANCE IN NATURE

Foreseen start date: **June 2019**
Actual start date: **August 2019**

Foreseen end date: **December, 2026**
Actual (ant.) end date: **December, 2026**

Name of the Milestone	Deadline	
DNPC Unit established at the MOP	February 2021 April 2021	partially completed
Action plan for improvement and broadening of the existing DNPC network is approved	March 2020 July 2022	completed
Agreements signed with new DNPC units - 1. phase	October 2021	in progress - delayed
Publishing of areas under DNPC on the web	December 2021 July 2022	completed
4 training courses for new and existing NPW organised	December 2022	in progress
4 training courses for new and existing NPW organised	December 2023	not started yet
Agreements signed with new DNPC units -2. phase	October 2023	not started yet
Publishing of areas under DNPC on the web	December 2023	not started yet
4 training courses for new and existing NPW organised	December 2024	not started yet
4 training courses for new and existing NPW organised	December 2025	not started yet
Agreements signed with new DNPC units -3. phase	October 2025	not started yet
Publishing of areas under DNPC on the web	December 2025	not started yet
4 training courses for new and existing NPW organised	December 2026	not started yet

C.6 ENHANCEMENT OF WARDEN SERVICE FOR DIRECT SURVEILLANCE IN NATURE

List of activities performed since last visit:

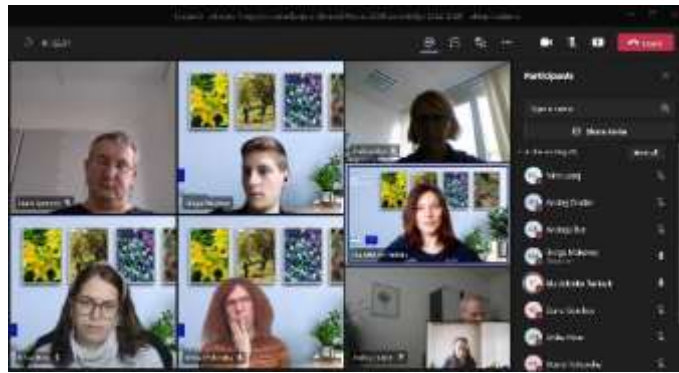
- **Action plan – completed**
- **Areas under DNPC published on website – completed**
- **12 meetings with protected area nature wardens** – they formed the basis for preparation of the report on the state of DNPC in Slovenia and proposals for its strengthening and expansion (The report was published on the website and parts of it were included into the Action Plan).



C.6 ENHANCEMENT OF WARDEN SERVICE FOR DIRECT SURVEILLANCE IN NATURE

List of activities performed since last visit:

- **Control of unauthorized interventions** – involved in the review of potentially unauthorized intervention on the nature value site Janežovci - glinokop (case in revision)
- **Involvement in the preparation of the Natura 2000 Management Program 2022 - 2028** – the measures of the new management plan are also linked to direct control in nature, which is why members of the DNCP team were involved in the coordination process with inspections for nature, agriculture, forestry, hunting and fishing.



The role of DNPC

professional/ voluntary nature
protection wardens

establishing the offense authority

raising public awareness

training courses for new and
existing NPW & workshops

C.6 ENHANCEMENT OF WARDEN SERVICE FOR DIRECT SURVEILLANCE IN NATURE

Causes for the delay	measures taken	status
Main delay now due to lack of political decisions. Some delays still present due to turnover and lack of personnel (two maternity leaves). First program of work of nature protection wardens for period 2022-2023 delayed due to delay on action plan.	The establishment of the DNPC unit at the Ministry of Environment and spatial planning, was confirmed by the leadership of the Ministry. The project team will continue to provide support and coordinate nature protection in Slovenia. The formalization and establishment of an offense authority is in the hands of political decision makers. With the completion of the action plan, preparation of the first work program of nature protection wardens for 2022-2023 can start.	Our goal remains to strengthen and expand direct surveillance in nature in Slovenia.

C.6 ENHANCEMENT OF WARDEN SERVICE FOR DIRECT SURVEILLANCE IN NATURE

Complementary funds

- As part of the complementary project POHORKA, ZGS started implementing nature protection and forestry supervision on Pohorje in September and October 2021 & May - September 2022. Education will continue this year (2022).



MONITORING



A.6 Preparatory actions for developing a monitoring scheme

Action completed!



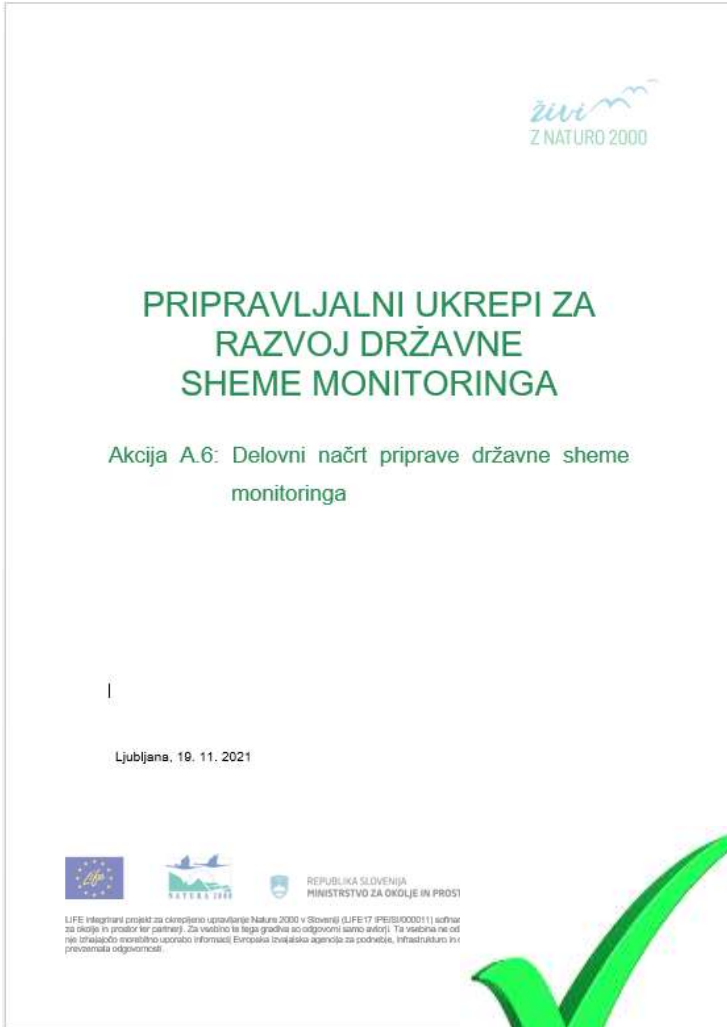
Deliverables finalized & published on project website:

- | | |
|--|-----------------|
| ✓ Feasibility study for monitoring scheme | - Oktober 2020 |
| ✓ Draft manual of monitoring protocols | - February 2021 |
| ✓ Working plan for setting monitoring scheme | - December 2021 |

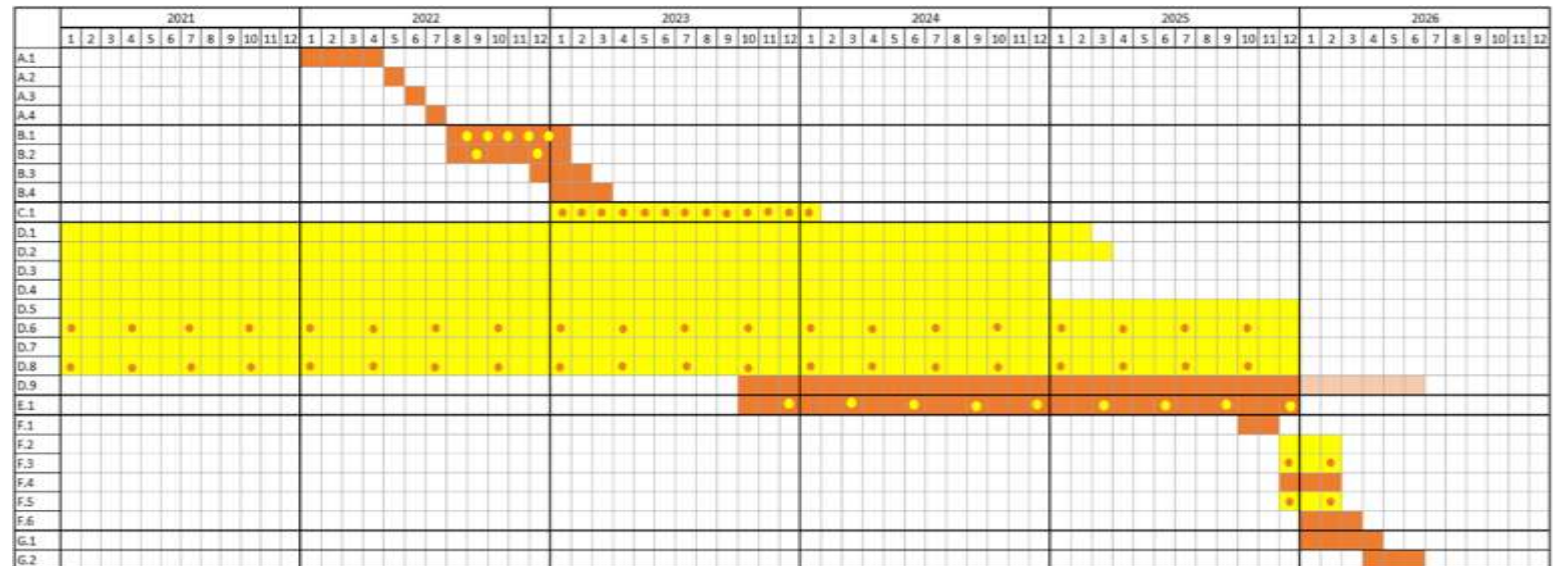
Milestones achieved:

- | | |
|---|----------------|
| ✓ Overview of existing protocols prepared | - Oktober 2019 |
| ✓ Survey of needs for monitoring prepared | - March 2021 |

A.6: Working plan for setting up the National monitoring scheme



- Preparation of input data (unification of attribute and graphic data)
- determination of monitoring needs for management and reporting on conservation status of species and habitat types
- development and testing of data collection protocols for monitoring certain species, HT, landscape structures important for biodiversity and Natura 2000 sites
- preparation of fair copies of data collection protocols
- preparation of a national monitoring scheme in three variants



C.7 DEVELOPEMENT AND TESTING MONITORING PROTOCOLS

Action in implementation – no delays foreseen

- ✓ ZRSVN is the coordinator of the action
- ✓ Other partners (ZGS, GIS, NIB, CKFF, UL, ZZRS) perform activities independently - preparing and testing monitoring protocols for selected species & habitat types
- ✓ **ZRSVN will include their results into monitoring scheme**

Deliverables to be delivered by ZRSVN

Due date

- | | |
|--|---------------|
| ✓ Manual of assessed, revised and updated species protocols for indicator-based monitoring | December 2025 |
| ✓ Manual on alternative method for non-forest habitat types mapping | December 2025 |
| ✓ Manual on mapping and monitoring of habitat types and landscape structures, important for biodiversity | December 2025 |
| ✓ Manual on monitoring of Natura 2000 sites | June 2026 |

- Collecting, unifying and sorting of data of monitoring of species

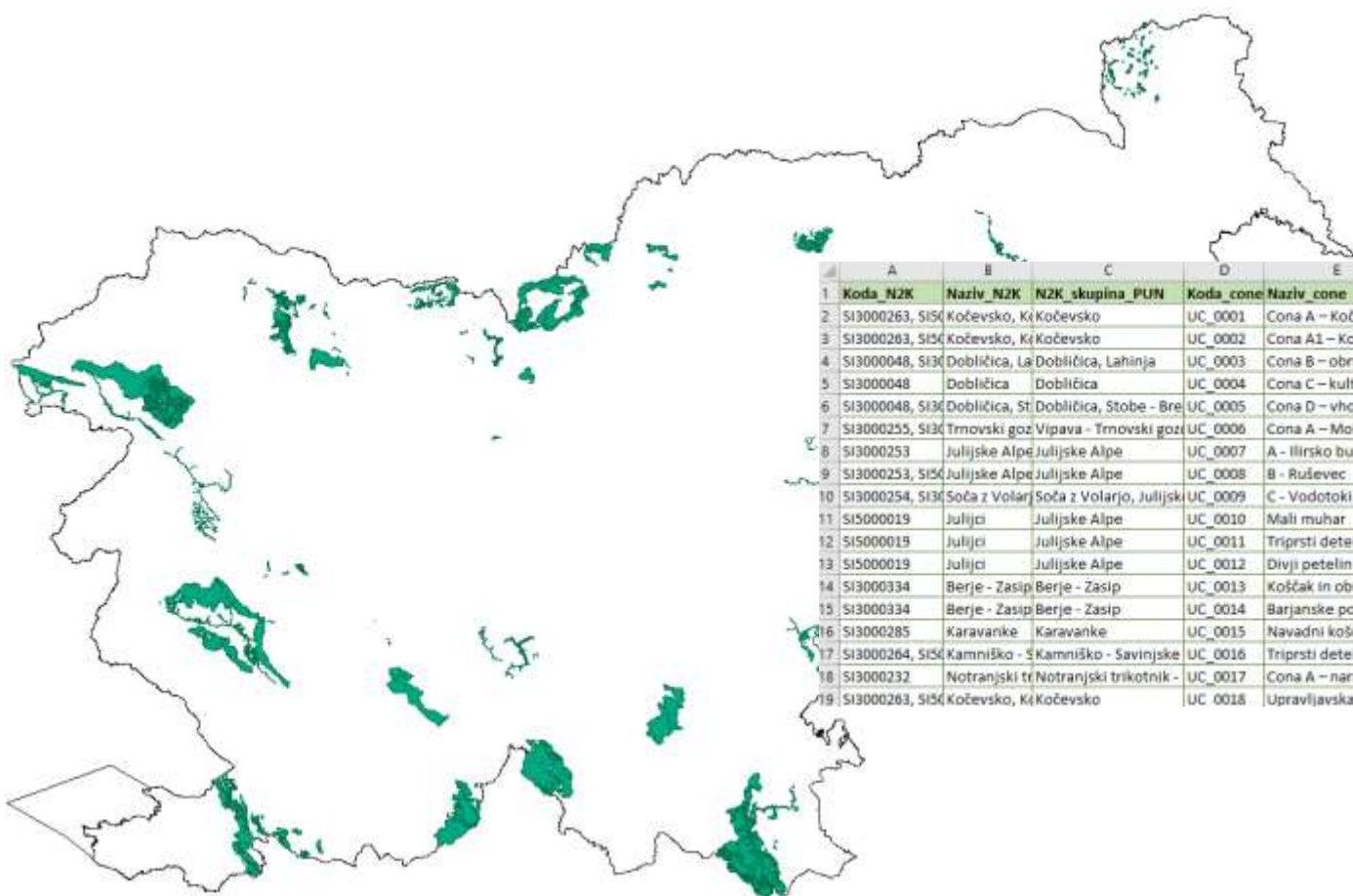
	Vrsta	Vrsta ime	Skupina	Pop obm	Pop m ID	Pop m naz	N2K koda	N2K ime	Tip mon	Pop met	Opom	Leto 2004	Leto 2005	Leto 2006	Leto 2007	Leto 2008	Leto 2009	Leto 2010	Leto 2011	Leto 2012	Leto 2013	Leto 2014	Leto 2015	Leto 2016
▶ 1093	Austropotamobius torrentium	raki	Drava - Kozjak	51948	Drmenica 1	S13000172	Zgornja Drava s pritoki	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Kozjak	12441	Drmenica 2	ni N2K	ni N2K	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Kozjak	51960	Drmenica 3	S13000313	Vzhodni Kozjak	popolni pregled				ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Kozjak	51955	Drmenica 4	ni N2K	ni N2K	populacijski monitoring	vrše			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni izveden
1093	Austropotamobius torrentium	raki	Drava - Kozjak	51959	Drmenica 5	S13000313	Vzhodni Kozjak	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Kozjak	51958	Drmenica 6	S13000313	Vzhodni Kozjak	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Kozjak	51957	Drmenica 7	S13000313	Vzhodni Kozjak	monitoring razširjenosti	popolni pregled			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - levi prtok - Pohorje	35821	Slepnica 1	S13000172	Zgornja Drava s pritoki	populacijski monitoring	vrše			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni izveden
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1093	Austropotamobius torrentium	raki	Drava - levi prtok - Pohorje	77687	Slepnica 3	ni N2K	ni N2K	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni izveden
1093	Austropotamobius torrentium	raki	Drava - levi prtok - Pohorje	77688	Slepnica 4	S13000172	Zgornja Drava s pritoki	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni izveden
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1093	Austropotamobius torrentium	raki	Drava - levi prtok - Pohorje	77690	Slepnica 6	S13000172	Zgornja Drava s pritoki	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni izveden
1093	Austropotamobius torrentium	raki	Drava - levi prtok - Pohorje	77691	Slepnica 7	S13000172	Zgornja Drava s pritoki	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni izveden
1093	Austropotamobius torrentium	raki	Drava - levi prtok - Pohorje	77692	Slepnica 8	S13000172	Zgornja Drava s pritoki	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Mislinja	65142	Barbarski potok 1	S13000216	Drava	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Mislinja	65141	Barbarski potok 2	ni N2K	ni N2K	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Mislinja	35918	Barbarski potok 3	S13000012	Kremžarjev potok	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	izvedeno	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Mislinja	65140	Barbarski potok 4	S13000216	Drava	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Mislinja	65139	Barbarski potok 5	ni N2K	ni N2K	populacijski monitoring	vrše			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Mislinja	35970	Barbarski potok 6	S13000216	Drava	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Mislinja	35962	Barbarski potok 7	S13000216	Drava	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Mislinja	33243	Barbarski potok 8	S13000216	Drava	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Mislinja	33242	Barbarski potok 9	S13000216	Drava	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Meža	65137	Meža 1	ni N2K	ni N2K	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Meža	39191	Meža 2	ni N2K	ni N2K	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Meža	39193	Meža 3	ni N2K	ni N2K	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Meža	37907	Meža 4	ni N2K	ni N2K	populacijski monitoring	vrše			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Meža	65138	Meža 5	ni N2K	ni N2K	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Meža	39182	Meža 6	ni N2K	ni N2K	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Drava - Meža	12061	Meža 7	ni N2K	ni N2K	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Dravinja - desni prtok	77725	Žičnica 1	ni N2K	ni N2K	monitoring razširjenosti	popolni pregled			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Dravinja - desni prtok	77726	Žičnica 2	ni N2K	ni N2K	monitoring razširjenosti	popolni pregled			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Dravinja - desni prtok	65084	Žičnica 3	S13000315	Žičnica s pritoki	populacijski monitoring	vrše			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu
1093	Austropotamobius torrentium	raki	Dravinja - desni prtok	37815	Žičnica 4	S13000315	Žičnica s pritoki	monitoring razširjenosti	obračanje kamnov			ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu	ni v načrtu

Skupina	Število vrst	Število popisnih mest
raki	2	915
hrošči	8	1127
metulji	14	4362
ribe in piškurji	30	9951
dvoživke	4	1788
ptice	21	2195
netopirji	?	1604

C.7: Manual of assessed, revised and updated species protocols for indicator-based monitoring

Collecting data from existing management zones:

- Forestry (forest management plans),
- Agriculture (implementation area (shapes) for the following RDP measures



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Koda_N2K	Naziv_N2K	N2K_skupina_PUN	Koda_cone	Naziv_cone	Sektor	Vrste	Habitatni_tipi	Opis_cone	Ključne_strukture	Usmeritve	Ukrepi	Leto_cone	Vir
2	SI3000263, SI3000048	Kočevsko, Kij	Kočevsko	UC_0001	Cona A – Kočevsko	gozdarstvo	širokolistni r	(8310) Jame, ki niso	Cona obsega gozdove zah	ohranjeni gozdovi, odr	-Ohranja se č	-653 – Ohr	2019	Naravos
3	SI3000263, SI3000048	Kočevsko, Kij	Kočevsko	UC_0002	Cona A1 – Kočevsko	gozdarstvo	/	(9180) Javorovi goz	Cona obsega habitatni tip	gozdne združbe, ki ustr	- V coni se dol	- 101 – Prip	2019	Naravos
4	SI3000048, SI3000048	Dobličica, La	Dobličica, Lahinja	UC_0003	Cona B – obrežni ses	gozdarstvo	bober (Cas	(9110) Ilirski hrast	Cona obsega pas vegetaci	obrežna vegetacija avt	- V coni se dol	/	2019	Naravos
5	SI3000048	Dobličica	Dobličica	UC_0004	Cona C – kulturna kr	gozdarstvo	veliki podk	/	Cona obsega gozdne otoki	gozdni otoki, gozdni ro	- Ohranja se g	/	2019	Naravos
6	SI3000048, SI3000048	Dobličica, St	Dobličica, Stobe - Bre	UC_0005	Cona D – vhodi v jam	gozdarstvo	človeška ri	(8310) Jame, ki niso	Cona obsega strukture oz	vhodi v jame, izviri, br	- V coni se dol	- 651 – Ohr	2019	Naravos
7	SI3000255, SI3000253	Trnovski goz	Vipava - Trnovski goz	UC_0006	Cona A – Mokrišča	gozdarstvo	navadni ko	Alpske reke in lesn	V cono so vključena vodna	/	- Ohranja naj s	/	2020	Naravos
8	SI3000253	Julijske Alpe	Julijske Alpe	UC_0007	A - Ilirsko bukovje	gozdarstvo	alpski kozl	Ilirski bukovj	Cona obsega notranje con	/	- Načrtuje naj	Prepuš	2020	Naravos
9	SI3000253, SI3000253	Julijske Alpe	Julijske Alpe	UC_0008	B - Ruševce	gozdarstvo	ruševce (T	ruševje (Mugo-Rh	Cona obsega notranjo con	/	- Ohranja naj s	/	2020	Naravos
10	SI3000254, SI3000253	Soča z Volarj	Soča z Volarjo, Julijski	UC_0009	C - Vodotoki	gozdarstvo	primorski	Alpske reke in lesn	V cono so vključena vodna	/	- Ohranja naj s	/	2020	Naravos
11	SI5000019	Julijci	Julijske Alpe	UC_0010	Mali muhar	gozdarstvo	mali muha	/	Cona obsega območje var	/	- Ohranja naj s	- Ohranjan	2020	Naravos
12	SI5000019	Julijci	Julijske Alpe	UC_0011	Triprsti detel	gozdarstvo	triprsti det	/	Cona obsega območje hab	/	- Znotraj cone	- Načrtno g	2020	Naravos
13	SI5000019	Julijci	Julijske Alpe	UC_0012	Divji petelin	gozdarstvo	divji petel	/	Cona vsebuje ožja in širše	/	- Rečiška planin	- Rečiška pla	2020	Naravos
14	SI3000334	Berje - Zasip	Berje - Zasip	UC_0013	Koščak in obvodna v	gozdarstvo	navadni ko	Alpske reke in lesn	Reka Sava z obvodnim pas	/	- Nove gozdne	/	2020	Naravos
15	SI3000334	Berje - Zasip	Berje - Zasip	UC_0014	Barjanske površine z	gozdarstvo	loeselova	lehni jakotvorni izv	Mokrotne (barjanske) pov	/	- V cono naj se	/	2020	Naravos
16	SI3000285	Karavanke	Karavanke	UC_0015	Navadni koščak	gozdarstvo	Navadni ko	/	Cona se nahaja znotraj goz	/	- Po potokih n	/	2020	Naravos
17	SI3000264, SI3000264	Kamniško - S	Kamniško - Savinjske	UC_0016	Triprsti detel	gozdarstvo	triprsti det	/	Cona se večinoma nahaja	/	- Praviloma na	/	2020	Naravos
18	SI3000232	Notranjski tr	Notranjski trikotnik	UC_0017	Cona A – naravovarst	gozdarstvo	človeška ri	jame, ki niso odprt	Cona A vsebuje lokacijo bi	/	- V območju v	- Ekocelica z	2020	Naravos
19	SI3000263, SI3000048	Kočevsko, Kij	Kočevsko	UC_0018	Upravljaljska cona A	gozdarstvo	brazdar (R	/	Cona A obsega najbolj ohr	/	- Ohranja naj s	- ekocelice	2020	Naravos

C.7: Manual of assessed, revised and updated species protocols for indicator-based monitoring

Timing plan: 2nd half of 2022 and 2023:

- Identification and collecting publically available environmental data: determination of indicators for monitoring of Natura 2000 (ex. agricultural land use)
- determination of monitoring needs for management and reporting on conservation status of species and habitat types

Development and testing of monitoring protocols for selected forest species & habitat types

implemented by GIS & ZGS

živim
Z NATURE 2000


REPUBLIKA SLOVENIJA
Ministrstvo za okolje in podnebje


NARAVNA ZRAČNOST
Naravni inštitut Slovenije


NARAVNA ZRAČNOST
Naravni inštitut Slovenije

**Zasnova protokola monitoringa stanja ohranjenosti
grednih habitatnih tipov s poudarkom na 91B0 in 91E0***
(osnovek nabora kazalnikov)

Vzpostavljamo protokola za redno spremljanje stanja grednih habitatnih tipov (91B0 in 91E0) v Sloveniji (LIFE 01/04/20000012, LIFE 01/04/20000013) skladno s 8. Prilogo k Direktivi o habitatih na pripravo nacionalne inventarizacije in skladno s 7. členom za izdelavo protokola za monitoring.

Autorki:
doc. dr. Lada Kuhn, dr. Janez Kormanec, Anja Martin Polak (ex kustoski inštitut Slovenije, Ljubljana)

dr. Vukleja Kubič (zavod za goščave Slovenije, Ljubljana)

Ljubljana, maj 2021

1. STANJE OHRANJENOSTI HABITATNIH TIPOV (NATURA 2000)

Na Direktivi o habitatih (1992) stanje ohranjenosti naravnega habitatnega tipa (gostota se spreminja tudi brezovka zveča) negativno vplivajo stanje) porabi skupaj vplivov, ki delujejo na naravno habitat in njegovo okolno okolje in to lahko vpliva na njegovo redno naravno razširjenost, strukturo in funkcije ter dolgoročno posledice njegovi značilni vrsti na zemlji in tla.

Stanje ohranjenosti naravnega habitatnega tipa je ugodno (Direktiva o habitatih, 1992):

- če so njegove naravne okolne razmere v celoti, in jih ne bomo območja pokusa, izdelali ali se poskušajo,
- če obstajajo in bodo v gospodarski priložnosti vsejeto in obstajajo podobna struktura in funkcije, poravnane in razpoložljive.

– če je stanje ohranjenosti

POLNOSTANOVILNI MONITORINGOVNI PROJEKT LIFE 01/04/20000012

1. MONIT. PLOŠKEV:  **2. HAB. TIP/P:**

4. OBLIKA/VELIK: **top R=11.26m/R=26.21m** **5. OBMOČJE:**

1. GEOR. COORDINATE	2. NADNOR. VISINA (m)	3. NAGIB (° ali %)	4. EKSP. (°)	5. ...
---------------------	-----------------------	--------------------	--------------	--------

- **Field monitoring protocols and forms** were developed.
- **About 40 variables/indicators** were selected and described for **monitoring of forest habitat types**, including **forest sites** characteristics (e.g., slope, exposure, relief), **vegetation** features (e.g., plant species composition, invasive species), **tree** characteristics (e.g., tree dimensions, growth and development), **stand** structure (e.g., tree species composition, vertical structure), and **nature-conservation** aspects (e.g., water bodies, dead wood quantity, pressures and threats, conservation status).

C.7 Development and testing of monitoring protocols: *Forest habitat types with special emphasis on 91E0* and 9180**

Results:

- **Multilevel approach** for testing of monitoring protocols of forest habitat types: **two parallel teams** (of two people each) are engaged in: a) **assessment of site, vegetation and nature-conservation** and b) **measurements of trees and stands** (dendrometry) indicators.

a)



b)

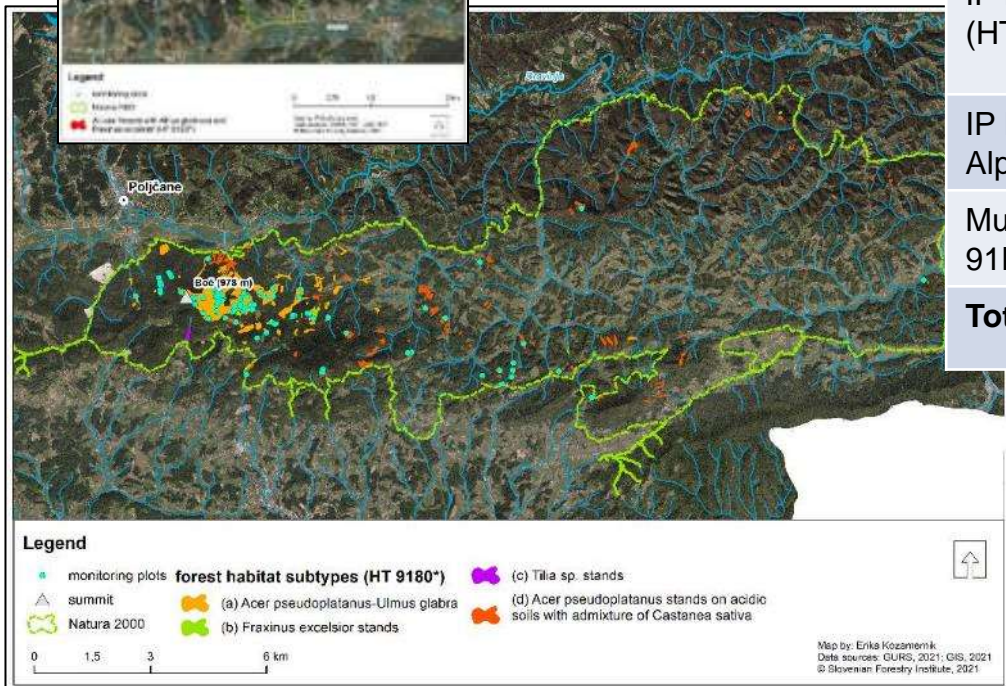


C.7 Development and testing of monitoring protocols:

Forest habitat types with special emphasis on 91E0 and 9180**

Results:

- **133 plots** were selected for testing of monitoring protocols: **82 plots** for **HT 9180***, and **51 plots** for **HT 91E0***

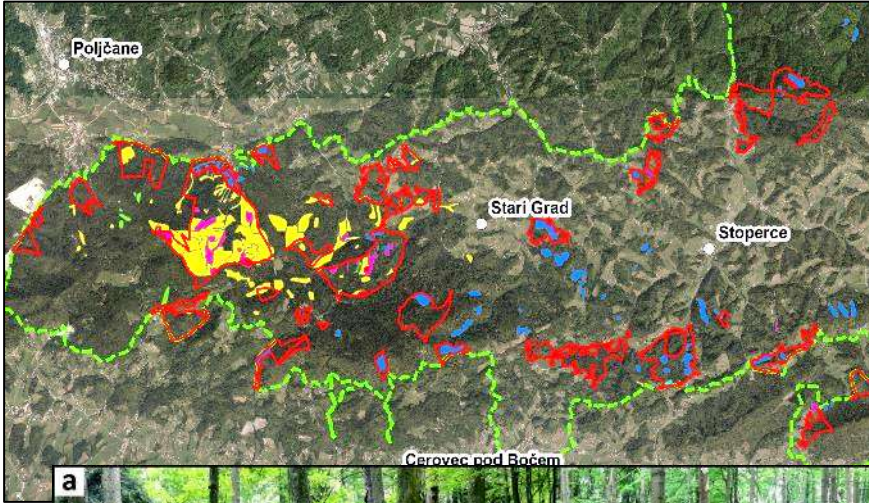


Site/area	No. of monitoring plots	Site-vegetation-nature-cons. - summer aspect	Site-vegetation-nature-cons. - spring (geophyte) aspect	Tree and stand measurements
IP Boč-Haloze-Donačka gora (HT 9180*)	82	53	31	48
IP Ličenca pri Poljčanah (HT 91E0*)	18	9	7	8
IP Kamniško-Savinjske Alpe (HT 91E0*)	7	0	0	0
Mura River area (HT 91E0*)	26	0	0	0
Total	133	62	38	56

Maps of selected plots for testing of monitoring protocols for HT 91E0* (project area Ličenca pri Poljčanah) and HT 9180* (Boč-Haloze-Donačka gora)

C.7 Development and testing of monitoring protocols:

Combining remote sensing techniques and field mapping



Project activities performed:

- Combining of **field mapping** with **remote sensing** techniques (e.g., LiDAR) - for the improvement of mapping, monitoring and conservation of selected forest habitat types (e.g., HT 9180* in the project area Boč-Haloze-Donačka g.).
- Conducted by GIS and ZGS

Results:

- **Detailed field maps** of the 9180* habitat type and its subtypes (a to d) were **evaluated by using remote sensing** data (LiDAR and its derivatives), related to **stand structure** (CHM - Canopy Height Model) and **topographic** factors (TPI -Topographic Position Index and Slope).
- **Differences in CHM, TPI, and slope** among the 4 habitat subtypes were **tested** at 1 x 1 m pixel/cell resolution (over 3.1 million datapoints).

C.7 Development and testing of monitoring protocols: *Combining remote sensing techniques and field mapping*

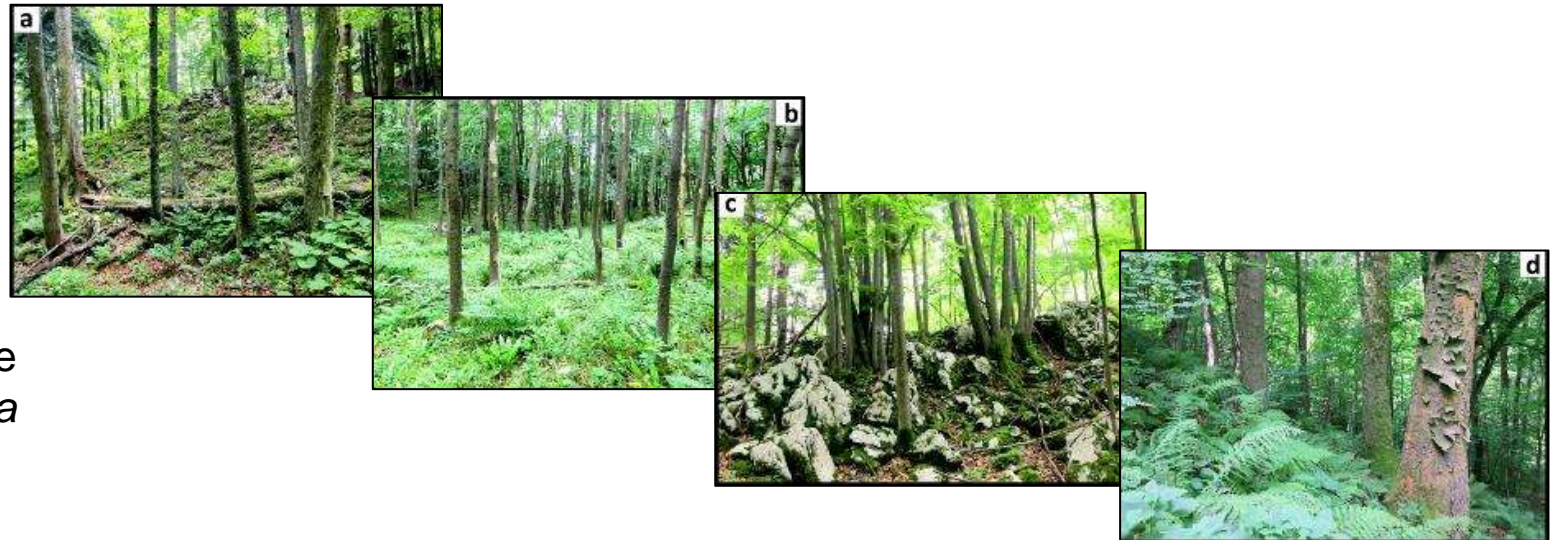
Results:

With the aim to improve conservation assessment and management of the *Tilio-Acerion* priority forest habitat type (9180*), we evaluated field maps using LiDAR data. Subtypes of 9180* (a to d) were found to differ significantly in terms of:

- Area,
- Tree species composition,
- Forest stand characteristics (e.g., tree height),
- Relief (concave vs. convex morphology),
- Threats (e.g., fragmentation, mortality of the key tree species, game browsing pressure on the key tree species regeneration, competition by beech and planted spruce trees, and by non-native plant species).

Subtypes of 9180*:

- a) *Acer pseudoplatanus*-*Ulmus glabra* stands
- b) *Fraxinus excelsior* stands
- c) *Tilia* sp. stands
- d) *Acer pseudoplatanus* stands on more acidic soils with admixture of *Castanea sativa*



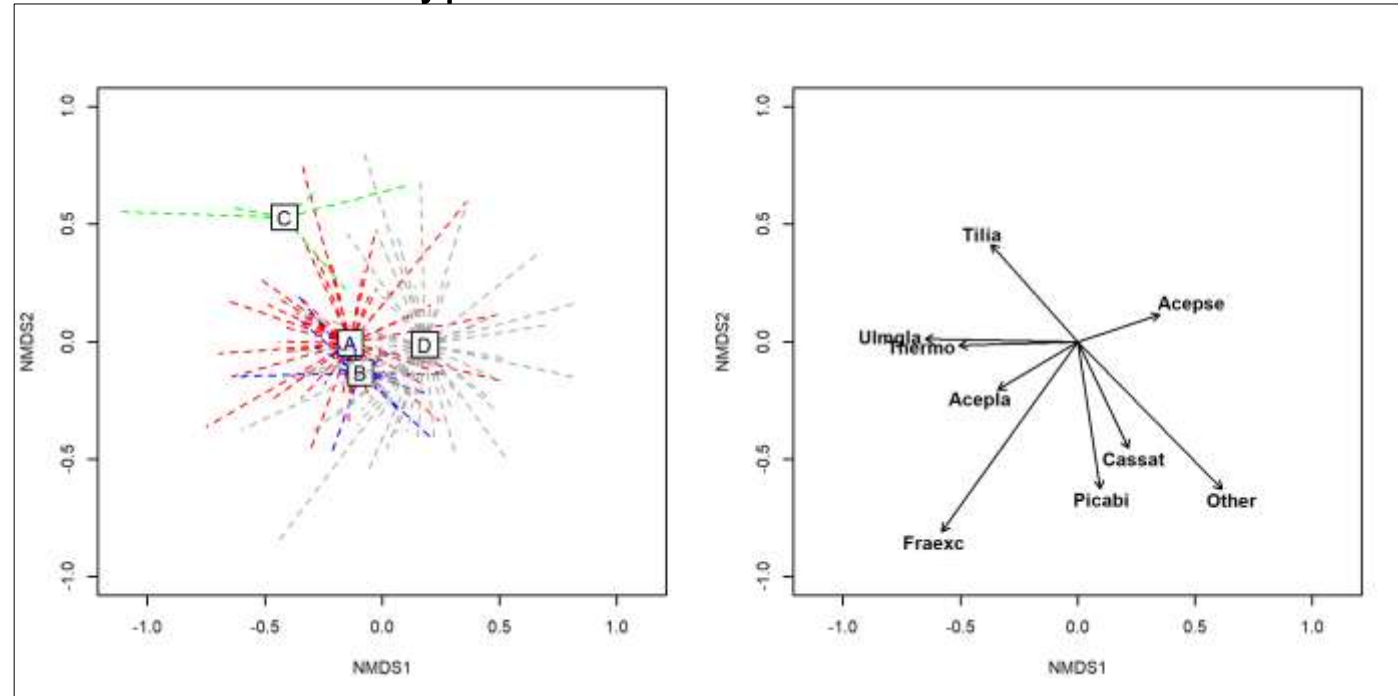
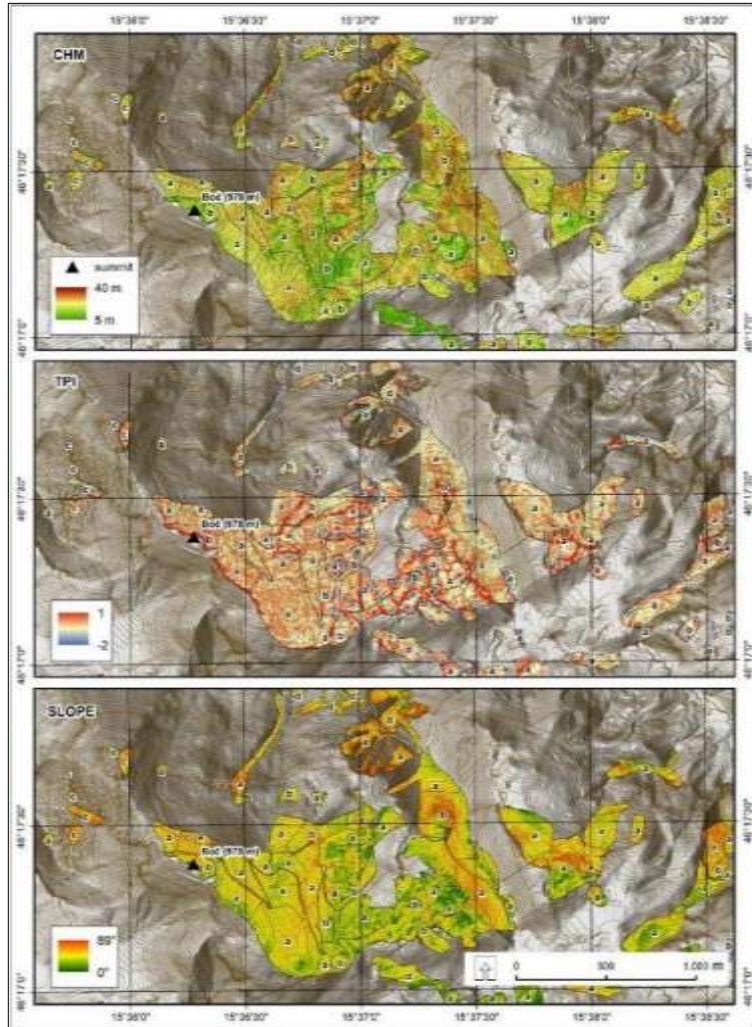
C.7 Development and testing of monitoring protocols:

Combining remote sensing techniques and field mapping



Results:

- Graph indicating differences in **tree species composition** in the habitat subtypes of HT 9180*



- A. *Acer pseudoplatanus*-*Ulmus glabra* stands
- B. *Fraxinus excelsior* stands
- C. *Tilia* sp. stands
- D. *Acer pseudoplatanus* stands on more acidic soils with admixture of *Castanea sativa*

- Maps illustrating (i) the **Canopy Height Model (CHM)**, (ii) **Topographic Position Index (TPI)** and (iii) **slope** in the habitat subtypes of HT 9180*

C.7 Development and testing of monitoring protocols:

3 moss species: *Buxbaumia viridis*, *Dicranum viride*, *Hamatocaulis vernicosus*

List of project activities performed:

- Analysis of the **main knowledge gaps for 3 selected moss species:** *Buxbaumia viridis*, *Dicranum viride*, *Hamatocaulis vernicosus* (syn. *Drepanocladus vernicosus*);
- **Field sampling and assessment of populations** of selected moss species in their potential habitats;
- Partners: GIS with external expert (Prof. Dr. M. Sabovljević, Univ. of Belgrade).

Results:

- A **small amount of data** on ecology, locations and distributions for 3 selected moss species, especially in last 20 years: 4 locations for *Buxbaumia v.*, 2 for *Dicranum v.*, 9 for *Hamatocaulis v.*
- **Sampling** for 3 moss species was carried out in **Natura 2000 sites** (qualification species): different spruce and beech **forests** (*Buxbaumia viridis*, *Dicranum viride*), and fens and other wetlands (*Hamatocaulis vernicosus*).
- The collected samples of ***Dicranum v.*** and ***Hamatocaulis v.*** have been additionally **checked in the laboratory.**



C.7 Development and testing of monitoring protocols:

3 moss species: *Buxbaumia viridis*, *Dicranum viride*, *Hamatocaulis vernicosus*

Results:

- New localities/sites of selected mosses were recorded and published: **7 for *Buxbaumia viridis*, 5 for *Dicranum viride*, and 1 for *Hamatocaulis vernicosus*.**
- It is expected that these 3 species are likely to be more common in Slovenia - increased **research and monitoring** activities are needed.



Buxbaumia viridis

Buxbaumia viridis (Lam. & DC.) Moug. & Nestl., fam. Buxbaumiaceae (moss, bryophyte)

Contributors: Lado KUTNAR and Janez KERMAVNAR

Geographical focus: Slovenia

New records and noteworthy data: New records of rare and endangered species, also listed as Bern Convention and Natura 2000 species.

Specimen data: 1) Iški vintgar, S of Ljubljana, one old sporophyte on a spruce stump, N 45.907234°, E 14.494448°, 377 m a.s.l.; 6 July 2021; leg. Sabovljevič M., Kutnar L.; det. Sabovljevič M.; 2) Mount Krim, NE of Rakitna and S of Ljubljana, one big spruce stump with 11 sporophytes, N 45.902506°, E 14.452369°, 869 m a.s.l.; 6 July 2021; leg. Sabovljevič M., Kermavnar J., Kutnar L.; det. Sabovljevič M.; 3) Pokljuka near Mrzli Studenec and Šijec bog, two sporophytes on one spruce stump, N 46.3370°, E 13.9930°, 1192 m a.s.l.; 7 July 2021; leg. Sabovljevič M., Kermavnar J., Kutnar L.; det. Sabovljevič M.; 4) The Veliki Šumik area on Pohorje Mountain, two spruce stumps with 20 sporophytes in total, N 46.481759°, E 15.448656°, 1039 m a.s.l.; 9 July 2021; leg. Kutnar L., Sabovljevič M.; det. Sabovljevič M.; 5) Planina pod Šumikom on Pohorje Mountain – SE of the Veliki Šumik area, one old sporophyte on a spruce stump, N 46.4756°, E 15.4562°, 1121 m a.s.l.; 9 July 2021; leg. Kutnar L., Kermavnar J.; det. Kutnar L., Sabovljevič M.; 6) Krma valley near Zgornja Radovna, one sporophyte on a spruce stump, N 46.410456°, E 13.929298°, 815 m a.s.l.; 12 July 2021; leg. Sabovljevič M., Simčič A.; det. Sabovljevič M.; 7) Near the village of Na skali in the Soča valley, one decaying trunk with five sporophytes, N 46.340575°, E 13.710340°, 995 m a.s.l.; 16 July 2021; leg./det. Sabovljevič M.

Vouchers: photo-documentation;



Dicranum viride

Dicranum viride (Sull. & Lesq.) Lindb., fam. Dicranaceae (moss, bryophyte)

Contributors: Lado KUTNAR and Janez KERMAVNAR

Geographical focus: Slovenia

New record and noteworthy data: This is a rare and threatened species in Slovenia (URADNI LIST 2004-2014), a Natura 2000 species, a species protected by the Bern Convention (Appendix I) and listed in the EU Habitat Directive (Annex II)

Specimen data: 1) Old-growth forest reserve Pečka (Pragozd Pečka), in the mixed fir-beech forest in the Dinaric Mountains, N 45.752512°, E 15.001183°, on the bark of a standing beech tree, 792 m a.s.l., 8 July 2021; leg. Kermavnar J., Kutnar L., Sabovljevič M.; det. Sabovljevič M.; 2) Old-growth forest reserve Pečka (Pragozd Pečka), in the mixed fir-beech forest in the Dinaric Mountains, N 45.752387°, E 15.000237°, on the bark of a standing beech tree, 820 m a.s.l., 8 July 2021; leg. Kermavnar J., Kutnar L., Sabovljevič M.; det. Sabovljevič M.; 3) Julian Alps, near Bohinj Lake, Pod Voglom, N 46.276139°, E 13.834347°, on the bark of a standing beech tree, 572 m a.s.l., 7 July 2021; leg. Kermavnar J., Kutnar L., Sabovljevič M.; det. Sabovljevič M.; 4) Julian Alps, near Bohinj Lake, in the area surrounding the Savica waterfall, N 46.289972°, E 13.800300°, on the bark of a standing beech tree, 654 m a.s.l., 10 July 2021; leg. Sabovljevič A., Sabovljevič M.; det. Sabovljevič M.; 5) Kamnik-Savinja Alps, Veliki Predaselj gorge, Kamniška Bistrica valley, N 46.321097°, E 14.594838°, on the bark of a standing beech tree, 573 m a.s.l., 11 July 2021; leg. Kutnar L., Sabovljevič A., Sabovljevič M.; det. Sabovljevič M.



Hamatocaulis vernicosus

Hamatocaulis vernicosus (Mitt.) Hedenäs., fam. Amblystegiaceae (moss, bryophyte)

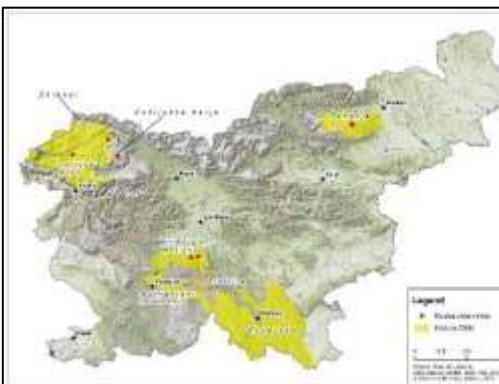
Contributors: Lado KUTNAR and Janez KERMAVNAR

Geographical focus: Slovenia

New record and noteworthy data: This is a rare and threatened species in Slovenia (URADNI LIST 2004-2014), one of the Natura 2000 species, a species listed in the EU Habitat Directive (Annex II), a species which is vulnerable and decreasing at the pan-European level.

Specimen data: 1) the Julian Alps, Pokljuka plateau, west of Šijec peatbog, a small fen called Golemberca, N 46.334887°, E 13.989262°, 1196 m a.s.l.; 7 July 2021; leg. Kermavnar J., Kutnar L., Sabovljevič M.; det. Sabovljevič M.

Voucher: Herbarium of the Institute of Botany and Botanical Garden Jevremovac, University of Belgrade (BEOU), bryophyte collection, s/n.



Development and testing of monitoring protocols for selected species

Performed by ZZRS

C.7 Species and habitat type's initial situation analysis

Testing of methods for quantification and improvement of monitoring of Danubian lamprey (*Eudontomyzin vladykovi*) and pelagic fish species

Activity realization:

- Monitoring practices for lampreys in other countries are reviewed.
- Protocol for four different methods is being prepared.
- Methods sampling is planned in autumn (the most appropriate time for lamprey sampling)
- Tool improvement for sampling (electrofishing) pelagic fish is planned



Development and testing of monitoring protocols for selected species

Performed by UL

C.7 Developement and testing monitoring protocols: MOSSES

MOSSES

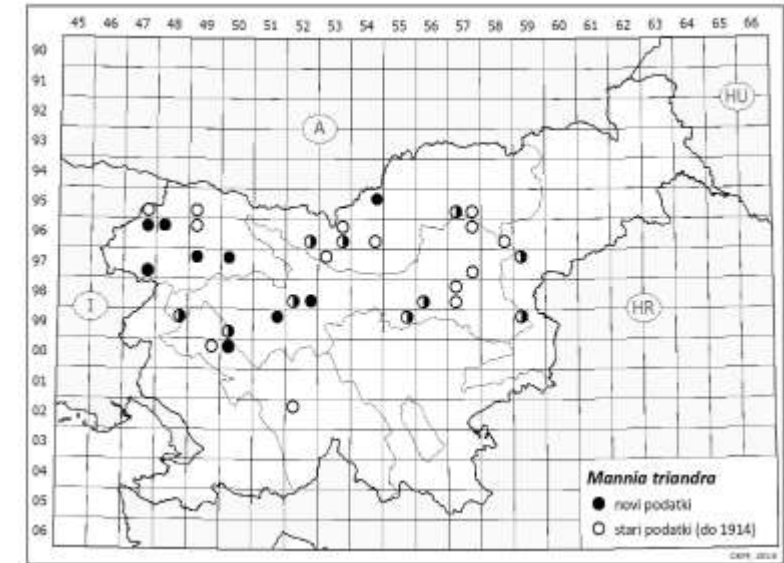
Mannia triandra



S. Strgulc Krajšek



S. Strgulc Krajšek



Meesia longiseta

?

Dicranum viride



S. Strgulc Krajšek

Buxbaumia viridis



S. Strgulc Krajšek

Hamatocaulis vernicosus

UL & GIS

Basic knowledge in Slovenia: updated distribution and habitat data collected

C.7 Development and testing monitoring protocols: HABITAT TYPE 8310: CAVES NOT OPENED TO THE PUBLIC

Preparatory activities: started in 2021

Discussions on existing and potential methods;
evaluating potential pitfalls and benefits



Defining biogeographical karstic units (caves are only windows into subterranean habitat)

Using the distribution patterns of selected taxonomic groups to define karstic units where to select caves for subterranean biodiversity monitoring

Current stage (master thesis)

- Dataset preparation (data from SubBioDB) for the first taxonomic group (Amphipoda: Niphargidae)
- Gathering informative environmental data layers & literature overview

Started in 2022, ongoing....

C.7 Development and testing monitoring protocols: HABITAT TYPE 8310: CAVES NOT OPENED TO THE PUBLIC

Testing the methodology to monitor subterranean biodiversity of caves

- Cluster of three caves in one karstic area
(similarity of caves; contribution of each cave to biodiversity of the karstic area)
- Which season is most suitable for sampling
(repetition of the protocol in four seasons:
winter & spring completed, summer & autumn planned)
- Combining different methods, standardisation of methods
(baited pit-fall traps – how many & how long?;
observations and hand picking – where; how long?)
- Which taxonomic group is the most representative for monitoring?

Started in 2021, ongoing....

3 caves in vicinity of Vrhnika



C.7 Development and testing monitoring protocols: HABITAT TYPE 8310: CAVES NOT OPENED TO THE PUBLIC

Testing the methodology to monitor subterranean biodiversity of caves

Started in 2021, ongoing....

Field work:

- setting the traps
- checking the traps in 1 week intervals (4 visits)
- hand picking and observations

Winter (Dec 2021/Jan 2022)



Including students, seminar work in course
Biology of Subterranean Habitats)

Spring (Apr/May 2022) 

Sorting the material:

- according to taxonomic groups

Identification of taxa:

- experts for selected taxonomic groups
- DNA barcoding (COI sequences)

Analyses

- comparisons along time scale,
among traps, traps vs. visual observations

PLANS:

Methods for sampling subt. biodiversity

Methods to monitor aquatic fauna

Methods to monitor target taxa/species

Methods to select monitoring sites

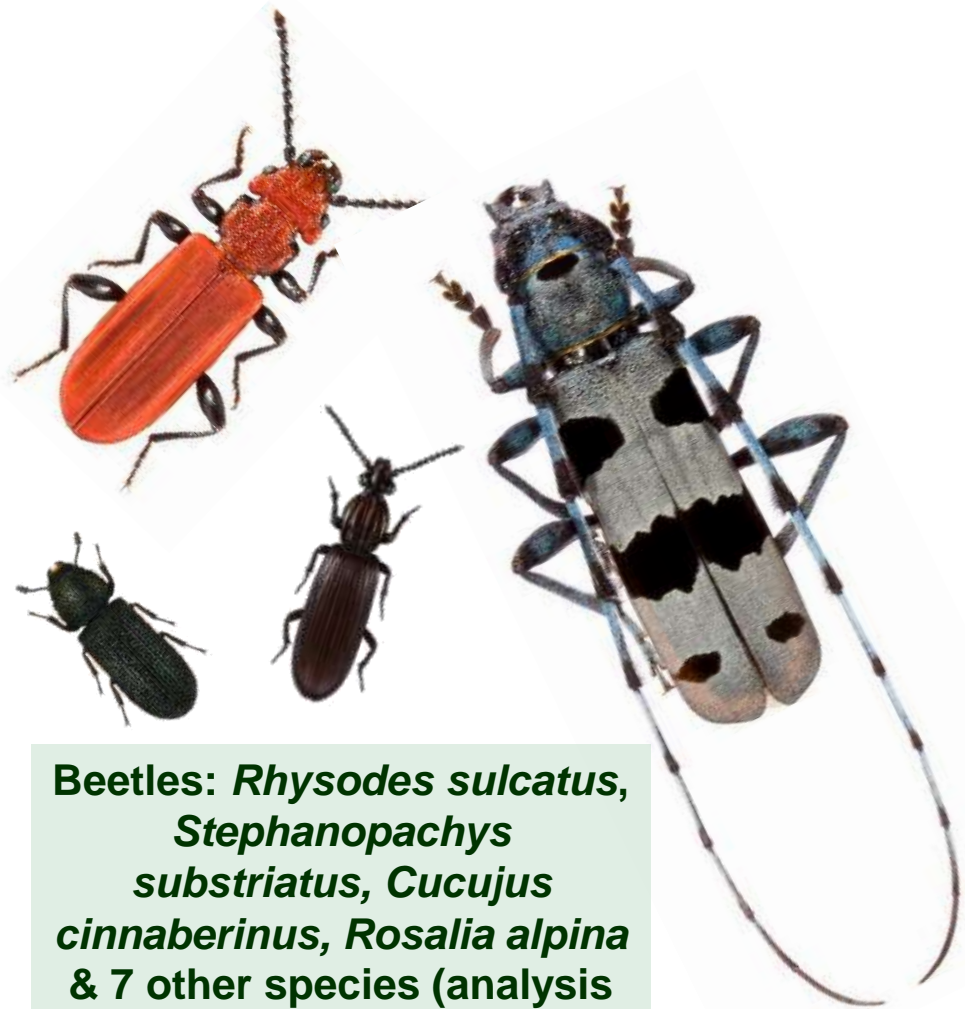
C.7. DEVELOPING A NATIONAL MONITORING SCHEME

Development and testing of monitoring protocols for selected species

Performed by NIB



NIB: C.7 activities in LIFE IP: Development and testing of monitoring protocols for selected species (2021)



Beetles: *Rhysodes sulcatus*,
Stephanopachys
substriatus, *Cucujus*
cinnaberinus, *Rosalia alpina*
& 7 other species (analysis
and optimized monitoring
proposal)

Birds: *Glaucidium*
passerinum, *Aegolius*
funereus, *Picoides*
tridactylus & 6 other
species



Reptiles: *Elaphe*
quatuorlineata

- NIB EKOS team: 9 people actively involved in LIFE-IP NATURA.SI project in 1H of 2022.
- Our work in 2022 was devoted mainly to actions C.7 and D.1, however, our activities also included actions C.3, C.4, D.4, E.2, E.3, E.4, E.5, E.6 (in collaboration with project partners MOP, ZRSVN, CKFF, ZGS, GIS, Zavod Štirna) and F.1.
- Total of 54 field days executed in 1H of 2022 under actions C.7 and D.1.
- In collaboration with leading partner MOP and other partners we successfully mitigated logistic and other restrains due to COVID situation also in 1H of 2022 .
- Minor issues due to COVID situation in certain specific segments, e.g. new order of recording devices for soundscape still delayed due to global chip shortage ...

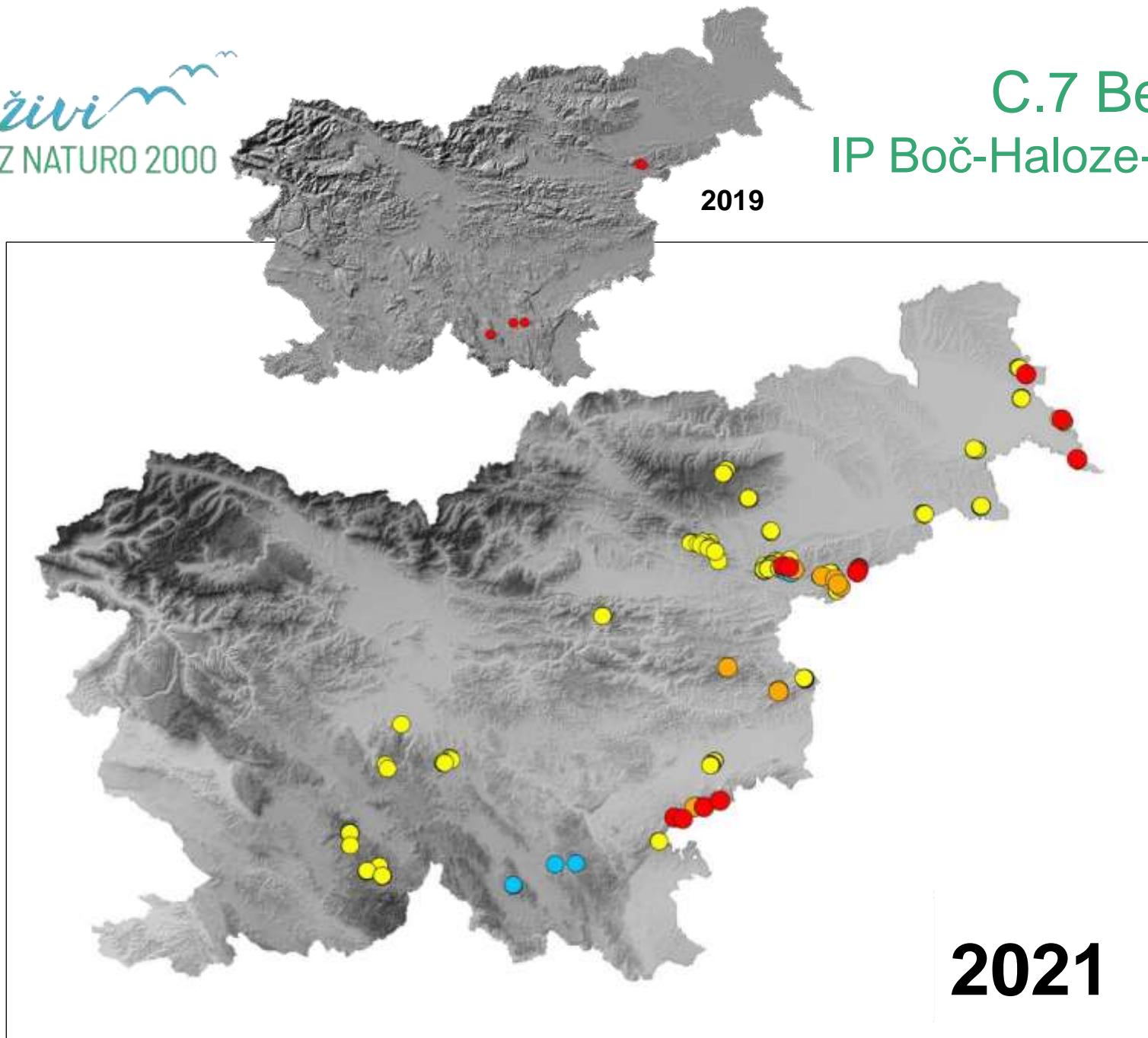
C.7 Beetle *Rhysodes sulcatus*



Donačka gora

- Knowledge on the occurrence, habitat requirements and conservation status greatly improved in LIFE-IP NATURA.SI project.
- Further fieldwork still needed to better understand distribution, biology and habitats requirements of this endangered saproxylic beetle.
- Objective under action C.7. is to develop and test a less invasive, but efficient and cost-effective monitoring protocol for this rare and endangered species.
- Final report: end of 2025; Interim report: end of 2022.

C.7 Beetle *Rhysodes sulcatus*: IP Boč-Haloze-Donačka gora & IP Slovenia



- Examination of dead wood trunks without species' detection
- *Rhysodes sulcatus* 2020
- *Rhysodes sulcatus* 2021

Much better knowledge on species distribution in Slovenia obtained in 2020 & 2021 – mainly protected forest reserves or extensively managed forests with large amount of suitable lying dead wood mass.



C.7 Beetle *Rhysodes sulcatus*

- 2 localities in NE Slovenia (Murska šuma, Gruškovje) with known occurrence of *Rhysodes sulcatus* selected for testing monitoring protocol with 2 different types of traps, with/without mushrooms as the attractant.
- Fieldwork still ongoing till July 2022, hundreds of samples will need to be examined. Despite some success it remains open if the approach will prove successful / feasible ...



C.7 Beetles and Four-lined snake Development of new monitoring methods

AIMS

- Based on success stories, e.g. in beetles *Osmoderma eremita* and *Rosalia alpina*, to look for and identify volatile organic compounds involved in intra- and interspecific interactions (i.e. semiochemicals) of focus species (two beetle species: *Rhysodes sulcatus* and *Cucjus cinnaberinus*, and a snake *Elaphe quatuorlineata*)
- To understand the role of semiochemicals in biology and ecology of focus species

A basis for the development of new and efficient monitoring/management tools



C.7 Beetles and Four-lined snake Development of new monitoring methods

- For beetle *Cucujus cinnaberinus*, in 2022 even more extensive field collecting of live animals to preform laboratory experiments was initiated at 4 localities in NE Slovenia. However, due to whole month of bad weather, only few adults obtained. Many laboratory tests performed but preliminary results don't give much new information.

Direct observations in the arena



Y maze bioassays



Collection of insect-derived volatiles etc.



C.7 Beetles and Four-lined snake Development of new monitoring methods

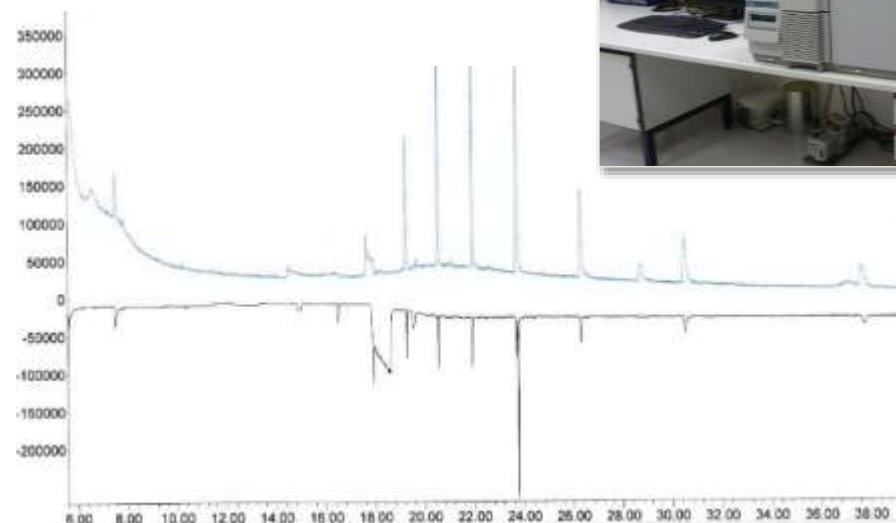
So far, sex-specific chromatographic peaks or compounds not found in any of the target beetle species – work in progress!



Step No. 1 – even obtaining animals in nature can be challenging



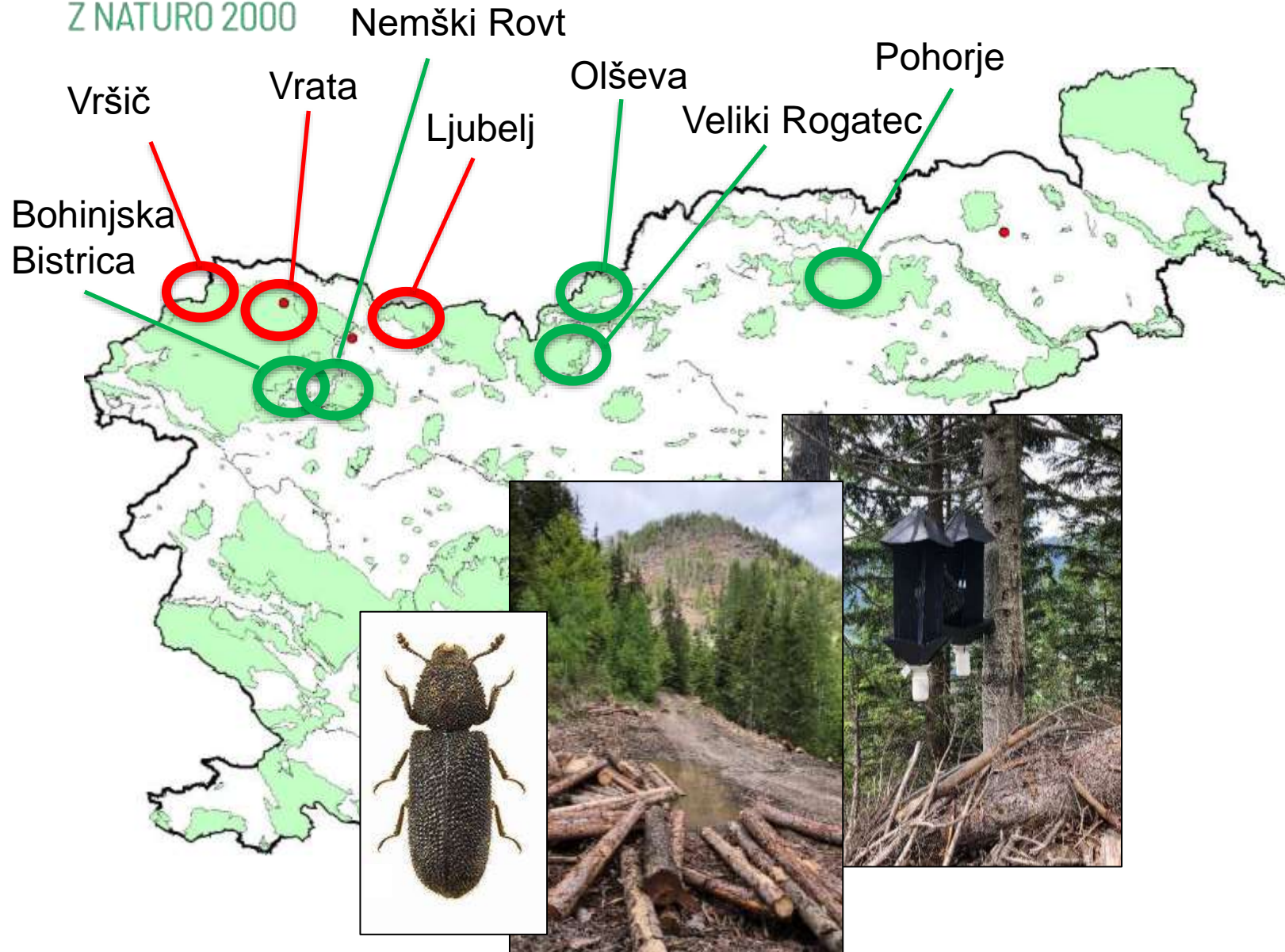
Collection of extracts from shed skin of four-lined snake



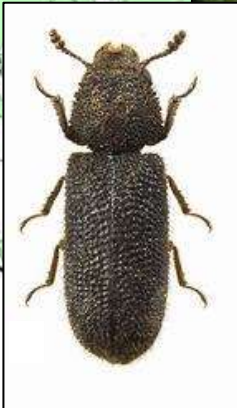
Representative chromatograms of extracts from *Cucujus cinnaberinus*; a female extract (top blue) and male extract (bottom black)



C.7 Beetle *Stephanopachys substriatus*: IP Slovenia 2020 / 2021

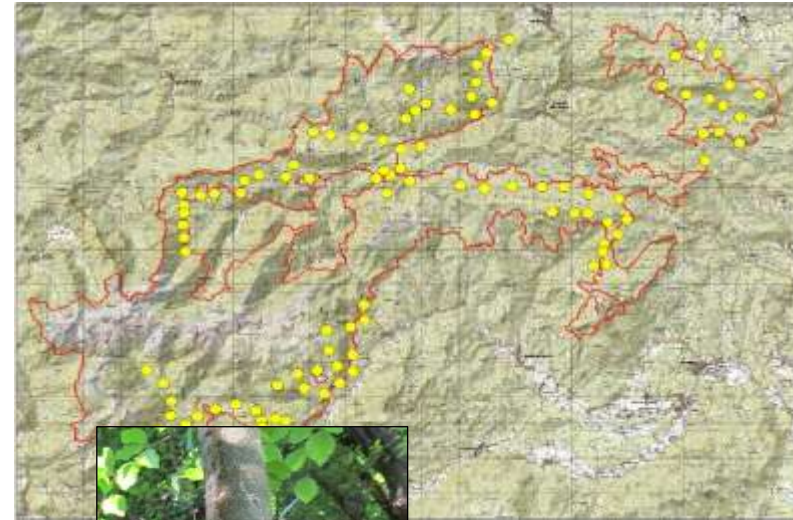


- *Stephanopachys substriatus* last found in Slovenia in 1993.
- Pheromone / attractants traps and burnt bark traps were not successful in 2020, also work in 2021 without success.
- Occurrence, conservation status, exact habitat requirements ... remain virtually unknown ...
- **New sampling with new approaches and attempts to discover the species (e.g. eDNA) planned in the next phases of LIFE IP → 2023 - action C 7.**



C.7 Birds: Development and testing of monitoring protocols for selected species

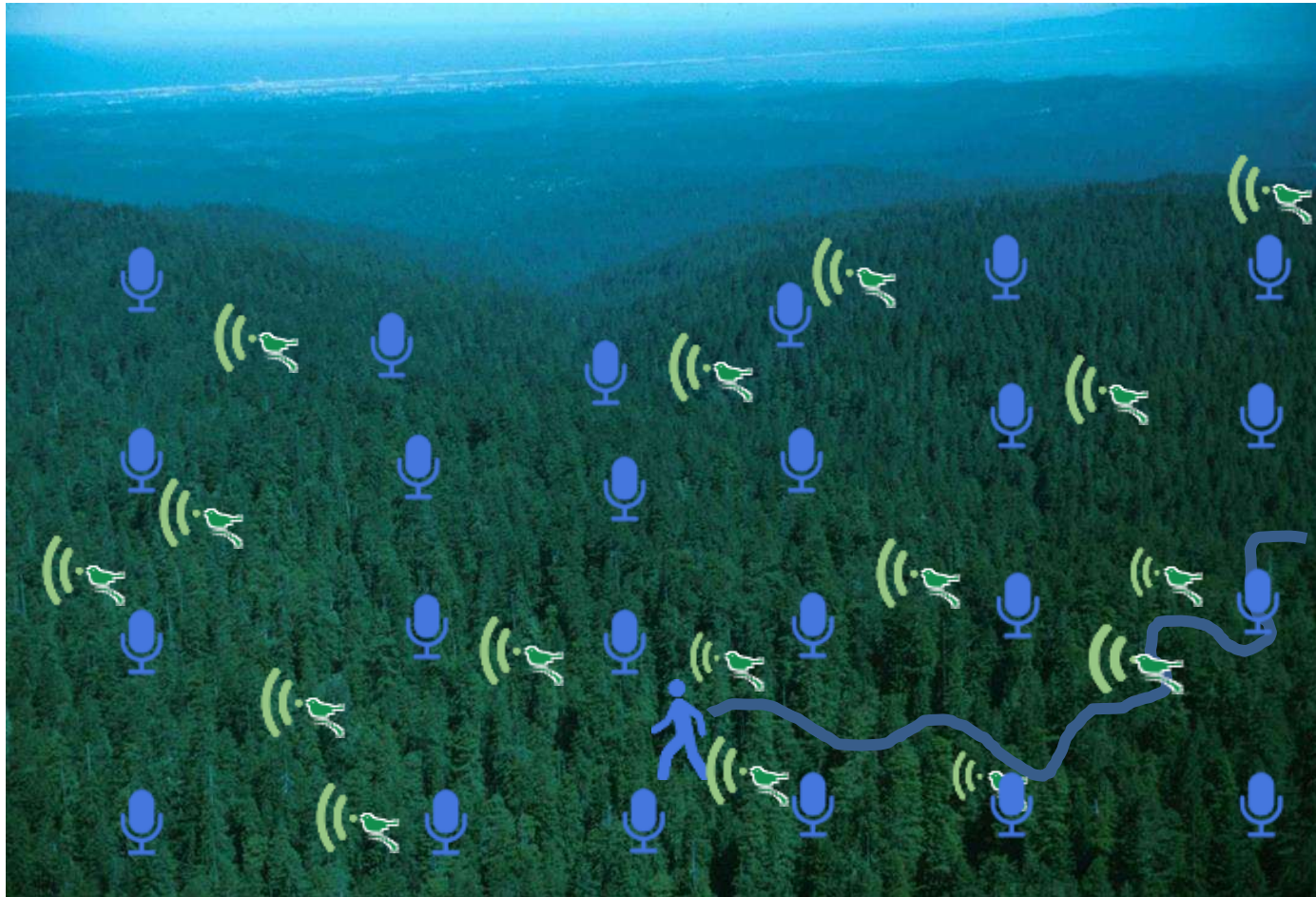
- Development, testing and proposal of a monitoring protocol for 9 selected forest bird species and establishment/proposal of national monitoring scheme.
- Field testing of three monitoring methods: (1) traditional playback census, (2) nest-box network monitoring for breeding monitoring, and (3) soundscape methods for territory monitoring – all three segments addressed in 2021 and beyond.
- IP Grintovci - Conservation measures will be further defined and adjusted in 2022 in direction of improving/increasing habitat structures needed by target bird species – in close cooperation with ZGS, MOP, ZRSVN and other stakeholders.



C.7 Birds: Traditional monitoring of target bird species in IP Grintovci - 2022

- Fieldwork based on playback census method executed in 1H of 2022 for *Aegolius funereus*, *Glaucidium passerinum* and *Picoides tridactylus* in 2 selected transects in SPA Grintovci – „Smrekovec“ and „Dleskovškova planota“.
- Results comparable to 2020 and 2021, except for low numbers of *Aegolius funereus* for which year 2021 was obviously exceptional.





C.7 Birds: Soundscape

Traditional bird surveys: manual transects, birds and other sounds within earshot at the time of survey are detected

Soundscape approach: area-wide, continuous recording of all sounds with multiple detectors

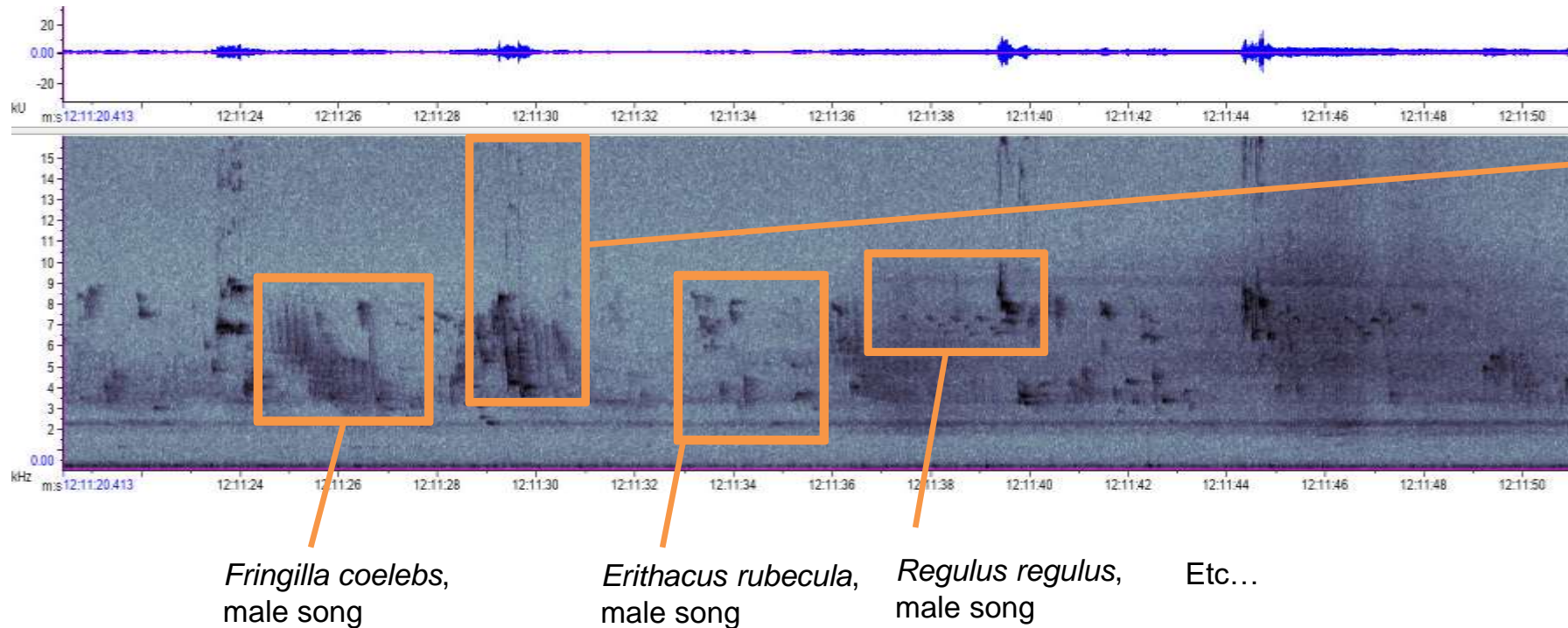
Benefits:

- avoids observer effect
- 24/7 recording enables analysis of daily and seasonal activity patterns
- large area coverage if many detectors are deployed in a grid pattern
- recordings are permanently stored and can be reanalyzed any time – a rich, general acoustic dataset is obtained

- **2022 technical solutions: Audiomoth v. 1.1.0 recorders with IPX7 waterproof case; alternative case design (3D-printed) for improvement of low-frequency sound capturing built and successfully tested.**
- **Test of autonomy, batteries, memory card capacity and reliability in harsh weather conditions successfully executed...**

C.7 Birds: Soundscape





Certhia familiaris, male song

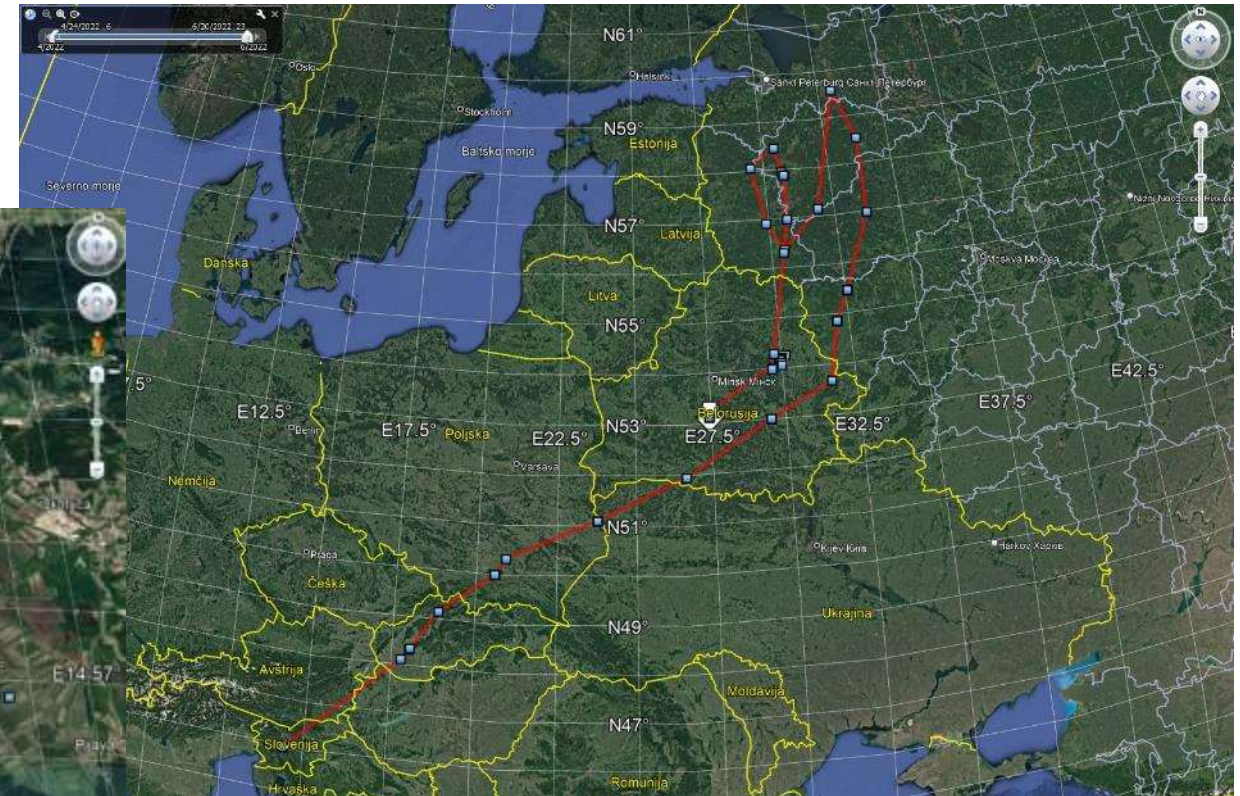
- Several thousand minutes of „raw“ target bird songs recordings obtained.
- Analysis of recordings which will give first insight/comparison to traditional method is ongoing but still largely pending.

C.7 Birds: Telemetry of Marsh Harrier – Cinderella story

- In February 2022 a first female of Marsh Harrier was equipped with GPS-GSM telemetric device and named „Cinderella“.
- From 23.2. till 24.4.2022 „Cinderella“ remained almost exclusively within two polygons at Ljubljansko Barje's extensive meadows. Valuable data on habitat use and actual duration of overwintering obtained.
- In late autumn/winter 2022 more telemetric devices will be deployed to overwintering Marsh Harriers at Ljubljansko Barje.



C.7 Birds: Telemetry of Marsh Harrier – Cinderella story



- „Cinderella“ left Slovenia at the end of April 2022 towards north, up to St. Petersburg, turned back to the SW, where it is spending most of time on the territory of Belarus ...

Four-lined snake *Elaphe quatuorlineata* IP Slovenska Istra

- 2019 – 2020 (IP LIFE): 10 new records; species' presence confirmed also outside Natura 2000 site
- Rare, extremely elusive snake species and very difficult to detect, population status remains poorly known.
- Citizens science (in cooperation with zavod Štirna & MOP): very successful and high „share of voice“ in media.
- **2022: no fieldwork planned.**
- **In June 2022, as an ongoing echo of successful citizen science campaign in 2020, a new interesting observation of Four-lined snake in a domestic „chicken coop“ submitted by the locals.**



Foto: Iztok Uršič, Baredi 37, Izola
4. 6. 2022

Development and testing of monitoring protocols for selected species

performed by



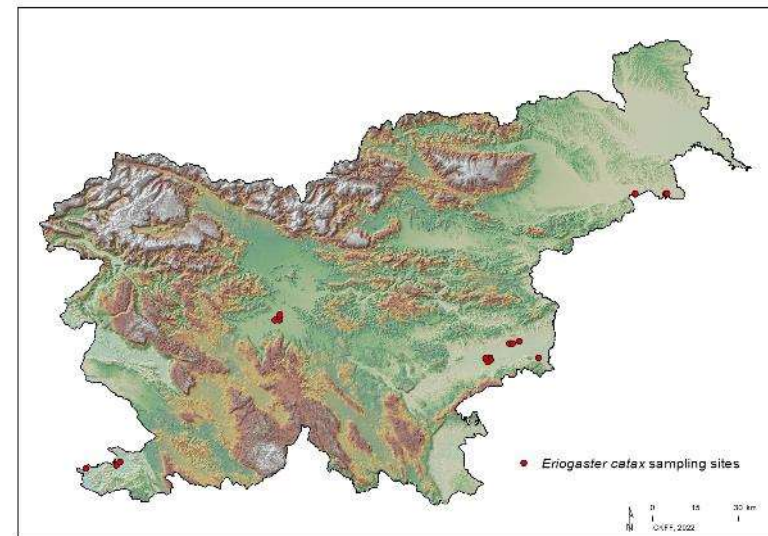
C.7 Development and testing of monitoring protocols for selected species

- Expected results: Proposal of optimized national monitoring scheme for
- Monitoring has not yet been established. Only the field work method is proposed: **Green Snaketail (*Ophiogomphus cecilia*)**, **Eastern Eggar (*Eriogaster catax*)**.
- Monitoring has not yet been established: **Yellow-spotted Whiteface (*Leucorrhinia pectoralis*)**
- Monitoring not fully established yet because distribution of the species in Slovenia is still inadequately known: **Eastern Eggar (*Eriogaster catax*)**, **European fire-bellied toad (*Bombina bombina*)**
- **work on all species in progress** (40 field work days in 2021); 2025 deadline



Eastern Eggar (*Eriogaster catax*)

- Monitoring not fully established yet (performed on selected points in and outside Natura 2000 sites) because distribution of the species in Slovenia is still inadequately known.
- Method: Searching and counting for the caterpillar webs in April.
- Expected results: better understanding of distribution of the species in Slovenia and proposal of optimized national monitoring scheme.
- 2021: Istra (Pomjan, Koštabona), Formin, Vrbina, Krakovski gozd, Lj. barje, Obala (Škocjanski zatok, Strunjanske soline).



3rd pillar

CROSS-CUTTING ACTIONS





Public awareness and dissemination

D.5
E.1, E.2, E.3, E.4, E.5



D.5 Monitoring of communication activities

Natura 2000 strategic communication in numbers

Implementing communication strategy with daily systematic communication is resulting in growth of well informed Natura 2000 community.



D.5 Monitoring of communication activities

Foreseen start date: **September 2018**
Actual start date: **June 2019**

Foreseen end date: **December 2026**
Actual (ant.) end date: **December 2026**

Name of the Deliverable	Deadline	
8 monitoring reports on communication actions impact (one per year)	December 2026	Implemented & in progress

Name of the Milestone	Deadline	
Monitoring of communication actions impact established	January 2020	Implemented

Causes for the delay/problems	Measures taken	Status
2020 - 2022: No delays		On-going according to project documentation

D.5 Monitoring of communication activities

Implemented activities & achieved results

Public opinion poll Natura 2000 in Slovenia (2020 implemented, next in 2022)

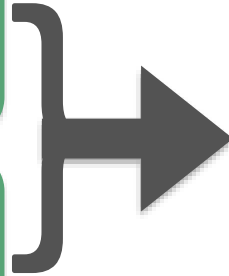
Daily clipping

E-mail delivery every day until 8:00 am

Yearly qualitative media analysis (2021, 1-5/2022)

Established monitoring of website and social media channels
Daily monitoring

Yearly qualitative owned digital media analysis (2021)



Media publicity	2020	2021	1-5/2022
Natura 2000 media articles	1,580	1,901	1,207
LIFE-IP NATURA.SI publicity	166	223	80
TOP national media	Slovenian Press Agency (STA) Times.si	Slovenian Press Agency (STA) Daily newspaper Delo National radio Radio Slovenia 1	Slovenian Press Agency (STA) Gov.si rtvslo.si Times.si Radio Slovenia 1
TOP regional media	Daily newspaper Primorske novice Daily newspaper Večer	Daily newspaper Primorske novice Daily newspaper Večer	Radio Koper Daily newspaper Večer Daily newspaper Primorske novice

In average 19 articles per month in 2022 generated by the project communication

D.5 Monitoring of communication activities

Media analysis 2021

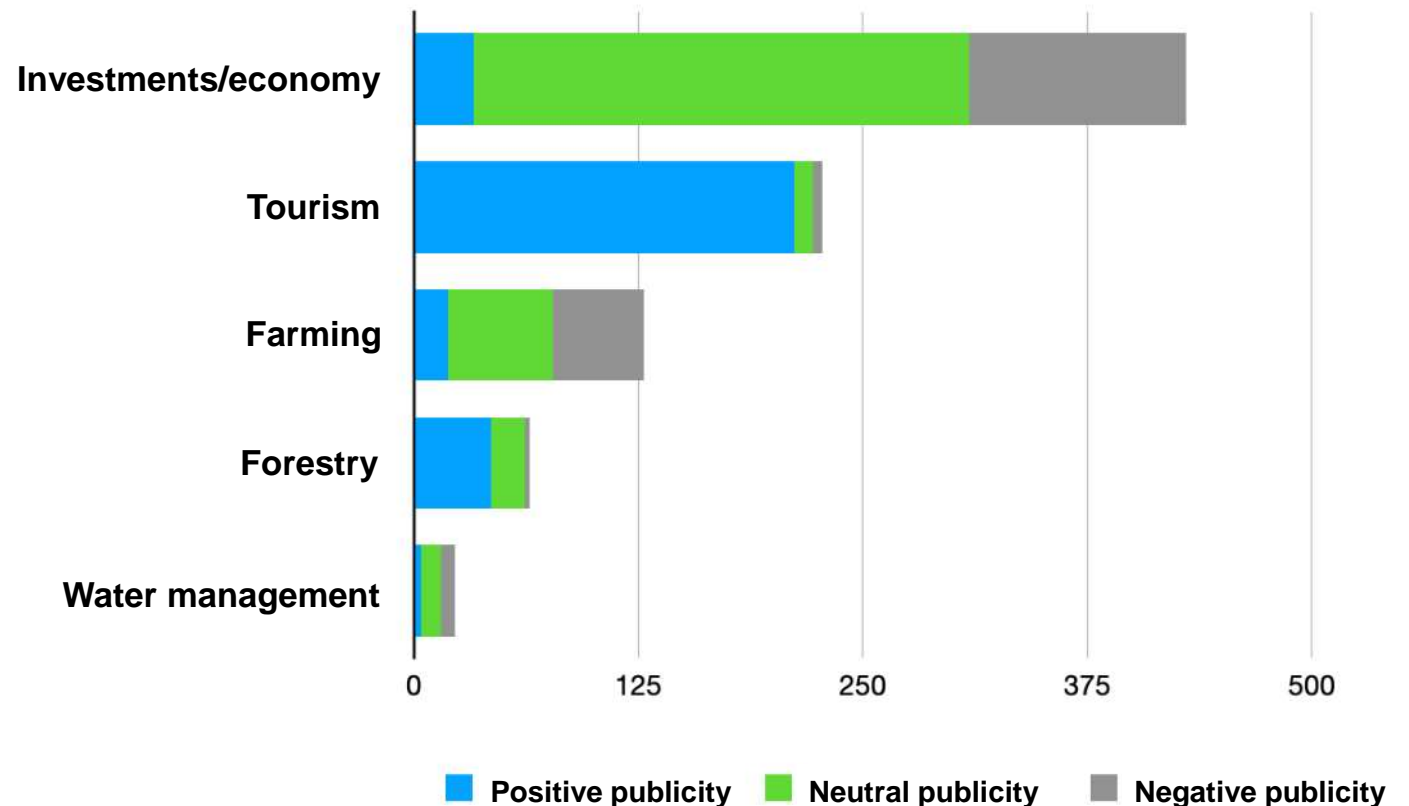
KEY FINDINGS:

- **59.07%** national media, **40.93%** regional and local media
- **158** media articles about Natura 2000 per month in average

4 THEME GROUPS:

- 1: Sectors publicity (investments/economy, tourism, forestry, farming, water management): **45.87%**
- 2: Natura 2000 projects and parks: **29.83%**
- 3: LIFE-IP NATURA.SI publicity: **11.73%**
- 4: General about Natura 2000: **12.57%**

Qualitative analysis of Natura 2000 media publicity regarding 5 key sectors:



D.5 Monitoring of communication activities

Status for the period 2021 & 1-5/2022

Natura 2000 publicity 2021: 1,901 media articles
Media publicity generated by LIFE-IP NATURA.SI 2021: 223 media articles

Natura 2000 publicity 1-5/2022: 1,207 media articles
Media publicity generated by LIFE-IP NATURA.SI 1-5/2022: 80 media articles

Project generated themes of Natura 2000 in 2021

Project publicity: general, forestry, farming

Natura 2000 Day

Cooperation with nature documentary Wild Slovenia & Photo exhibition Natura 2000 and Wild Slovenia: Nature unites

100 year of nature conservation in Slovenia - Spomenica

World days (World Wildlife Day, World Earth Day, European Parks Day etc.)

Invasive alien species

Bats: publication, general, International Bat Night

Project generated themes of Natura 2000 in 1-5/2022

Project publicity: general, farming

30 years of LIFE programme & Natura 2000: Natura 2000 Day, Slovenian Award Natura 2000

Guerrilla communication campaign The Capercaillie's courtship dance

Photo exhibition Natura 2000 and Wild Slovenia: Nature unites

World days (World migratory birds day, World Wetland Day etc.)

Quiz Youth and farming

Communication campaign for Pulsatilla grandis

D.5 Monitoring of communication activities

Digital media analysis 2020 - 2021 - 1-5/2022



Owned digital media	2020	2021	1-5/2022
Natura2000.si page views	70,601	71,413	36,034
Natura2000.si news published	38	94	52
Received questions (and answered) via on-line form	25	40	25
E-newsletter sent	12	12	5



Owned social media	2020	2021	1-5/2022
Facebook reach	88,175	188,967	69,811
Instagram reach	8,480	19,752	7,133
Facebook fans/followers	811	1,461	1,576
Instagram followers	448	1,007	1,299
Facebook @Natura2000.si post published	134	185	65
Instagram @Natura2000.si post published	120	185	65
Facebook & Instagram stories published	555	555	156
YouTube videos published	11	20	22

E.1 Communication planning, consultation for implementation

Strategic communication of Natura 2000

Through communication strategy, consultations with partners and a high professional level of implementation, we are establishing positive feelings towards Natura 2000, yet on a realistic basis. It is about network working together through best practices.



E.1 Communication planning, consultation for implementation

Foreseen start date: **September 2018**
 Actual start date: **June 2019**

Foreseen end date: **December 2026**
 Actual (ant.) end date: **December 2026**

Name of the Deliverable	Deadline	
Communication strategy	February 2020	Implemented
Creative and graphic design	February 2020	Implemented
6 communication reports (about implemented activities) as input for the communication plan for the next year	March 2020, January 2021, 2022, 2023, 2024, 2025	3 implemented
6 communication plans	March 2020; January 2021, 2022, 2023, 2024, 2025 (the last one for two years)	3 implemented

Name of the Milestone	Deadline	
Communication team organized	September 2019	Implemented
Two communication workshops implemented	November 2019	Implemented
Graphic design in use, materials used by partners	April 2020	Implemented

Results

- 1 communication strategy
- 6 communication plans – 3 communication plans
- 12 meetings of the communication team – 6 meetings
- Creative name and graphic design implemented - implemented
- Photos and video material used in communication - implemented
- Consultation available for the partners - implemented

Causes for the delay/problems	Measures taken	Status
2020 - 2022: No delays.		On-going according to project documentation

E.1 Communication planning, consultation for implementation

11/2021
-
5/2022

Implemented activities & achieved results

- 2 meeting of communication team
- 1 communication plan
- Ongoing consultation and cooperation with partners
- Photo and video material
- Additionally PUN: 1 meeting, website upgrade in progress, consultations for partners

2022
-
2026

Until the end of the project

- Yearly communication plans
- Regular communication meetings
- Ongoing consultation and cooperation with partners
- Photo and video material

E.2 Communication capacity building

Learn. Share. Repeat.

We have strengthened and empowered the communication network for nature conservation with comprehensive and interactive training series.



E.2 Communication capacity building

Foreseen start date: **September 2018**

Actual start date: **June 2019**

Foreseen end date: **December 2020**

Actual (ant.) end date: **December 2021**

Name of the Deliverable	Deadline	
Report on 5 workshops effective communication - basic	December 2020	Implemented
Report on 5 workshops effective communication - advanced	December 2020	Implemented
Report on first 5 workshops on facilitation - basic	December 2020	Implemented
Report on second 5 workshops on facilitation - basic	June 2021	Implemented
Report on 5 workshops on digital communication	September 2021	Implemented

E.2 Communication capacity building

Foreseen start date: **September 2018**

Actual start date: **June 2019**

Foreseen end date: **December 2019**

Actual (ant.) end date: **December 2021**

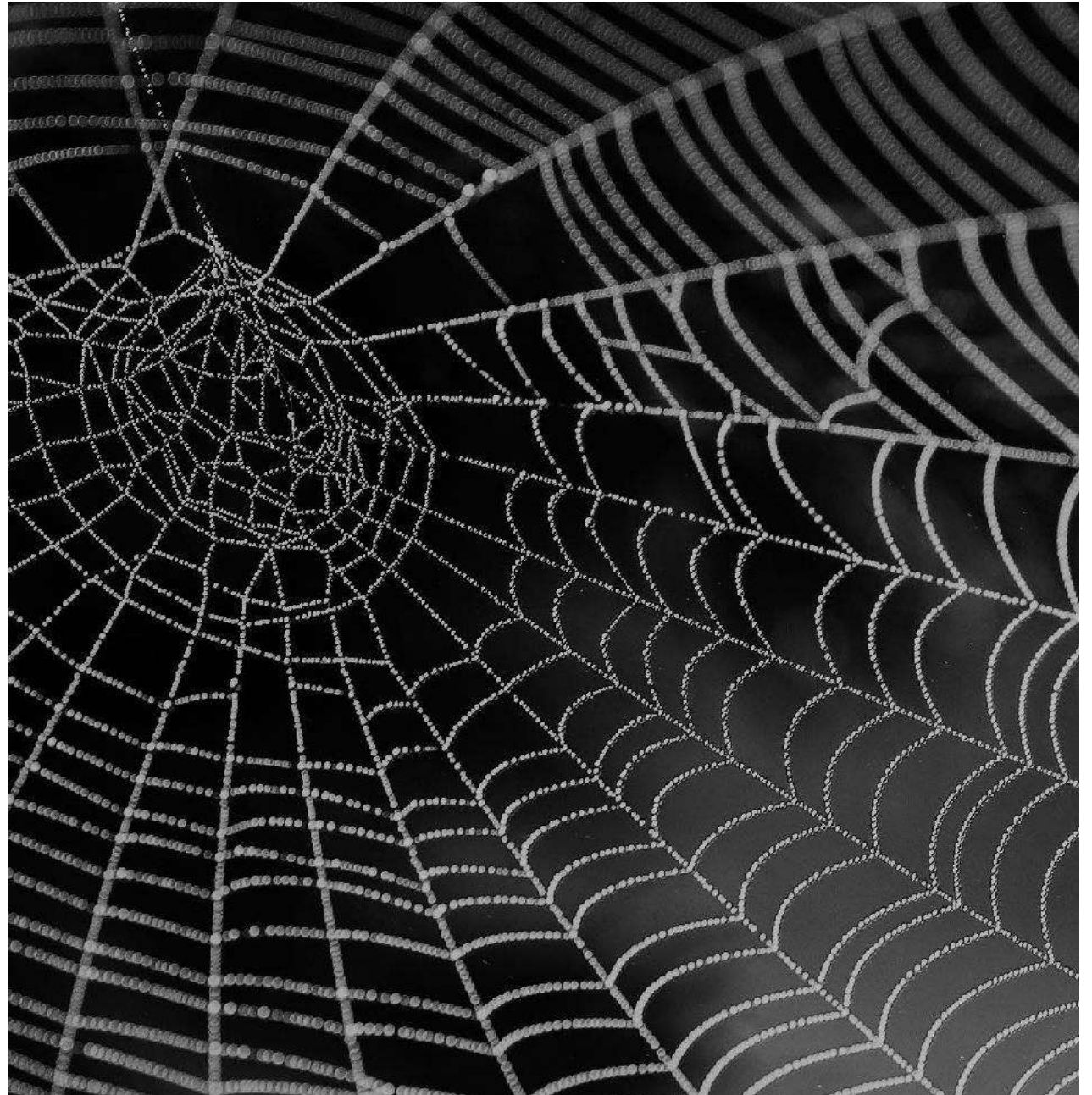
Name of the Milestone	Deadline	
Finished training for effective communication (basic and advanced)	December 2020	Implemented
Finished training for basic facilitation	December 2021	Implemented
Trained three representatives for speakers	December 2020	Implemented
Finished training for digital communication	December 2021	Implemented

Causes for the delay/problems	Measures taken	Status
2020 -2022: No delays		Completed successfully.

E.3 Web communication campaign

Natura 2000 is omnipresent on digital media

Building a digital community for nature conservation and Natura 2000 strengthens the voice of nature in outdoor digital buzz.



E.3 Web communication campaign

Foreseen start date: **September 2018**

Actual start date: **September 2019**

Foreseen end date: **December 2026**

Actual (ant.) end date: **December 2026**

Name of the Deliverable	Deadline	
Renewed webpage	May 2020	Implemented
Facebook and instagram established	April 2020	Implemented
First two video clips	December 2020	Implemented
4 infographics	December 2020	Implemented

Name of the Milestone	Deadline	
Established basic channels for communication	April 2020	Implemented
Used graphics and video content in communication	December 2020	Implemented

Results

40.000 reached through web communication till the end of the project:

- **website:** 70,601 in 2020; 71,413 in 2021; 36,034 in 1-5/2022
- **Facebook:** 88,175 in 2020; 188,967 in 2021; 69,811 in 1-5/2022
- **Instagram:** 8,480 in 2020; 7,769 in 2021; 7,133 in 1-5/2022

= 548,383 reach

Causes for the delay/problems	Measures taken	Status
2020 - 2022: No delays.		On-going according to project documentation

E.3 Web communication campaign

Website content
upgrade

Slovenian Natura
2000 Award

New segment for Natura
2000 Management
Programme

Library content and
organisation upgrade

Monthly themes

Main web article

On-line quiz

Video interview

Board game The
Capercaillie'
courtship dance

Mind & word games

Farmers for Natura
2000

Useful advices
(based on questions
received via on-line form)

E.3 Video content production

2020: 11 videos
2021: 20 videos
1-5/2022: 22 videos



53 videos

2020-5/2022

Natura 2000 Slovenija
122 subscribers

CUSTOMIZE CHANNEL MANAGE VIDEOS

HOME VIDEOS PLAYLISTS CHANNELS ABOUT

Popular uploads ▶ PLAY ALL

Thumbnail	Title	Views	Time
	Naravoslovni dokumentarni film Divja Slovenija: video...	1.6K views	1:35
	Nature parks and nature reserves in Slovenia	1.5K views	9:59
	Evropski dan Nature 2000: Pogovor z ustvarjalci...	1.3K views	1:24:58
	Hvala, ker nam pomagate iskati progastega goža	981 views	0:58
	Živim z Naturo 2000: Vsi si želimo, da gre naravi dobro	599 views	2:34

Uploads ▶ PLAY ALL

Thumbnail	Title	Views	Time
	Kmetijstvo in naravovarstvo za prihodnost ohranjenosti narave in trajnostnega kmetijstva		1:45:34
	Kmetija Krivec Območje Nature 2000 Kozjansk...		7:45
	Pašna skupnost Menina planina Območje Nature 2000 Menina		6:56
	Kmetijstvo in naravovarstvo za prihodnost ohranjenosti narave in trajnostnega kmetijstva		2:07:57
	Kmetija Kastelic Območje Nature 2000 Rado...		6:29

E.3 Influencers 2021-2022

Digital part of campaign with film director of nature documentary Wild Slovenia

Third party content
creation strategy

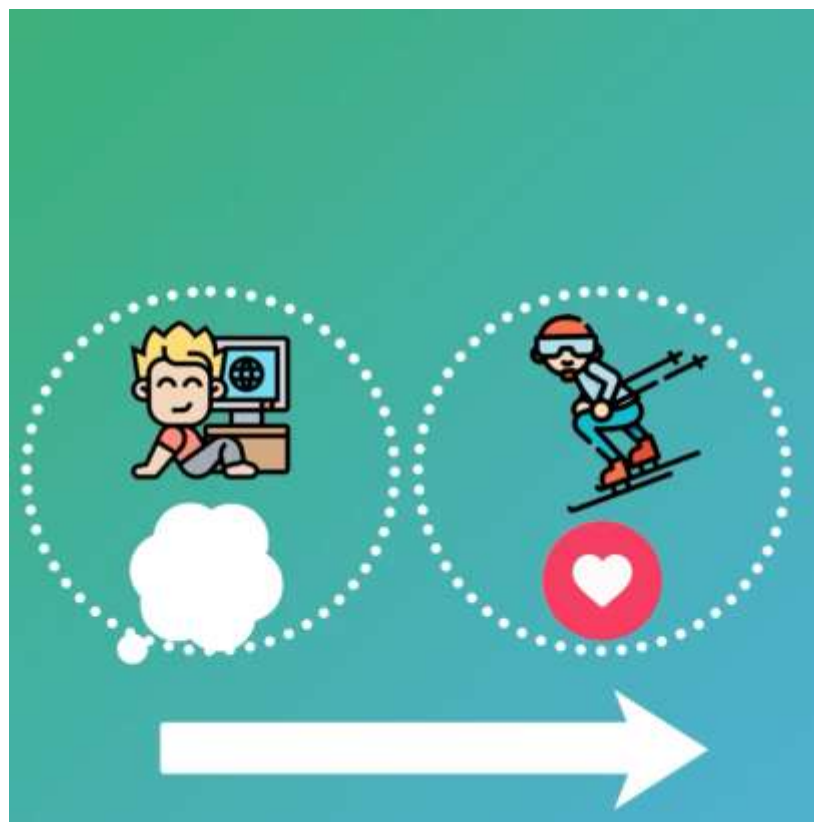
Multiplicative effect
with co-creators of Wild
Slovenia and cinemas

Partnership for 2 years
(2021-2022)

Activities	2021	2022
Premiere of Wild Slovenia trailer on Natura 2000 Day online event	✓	
Short video clip about Natura 2000 by film director of Wild Slovenia	✓	
Usage of #Natura2000 hashtag and tagging @Natura2000.si in all social media posts	✓	✓
Third party content usage for repost and share on Natura 2000 Slovenia social media	✓	✓
Content creation at events for social media usage (premiere)	✓	
Presentations at the faculties/educational system		✓



Event invitation for Pulsatilla grandis

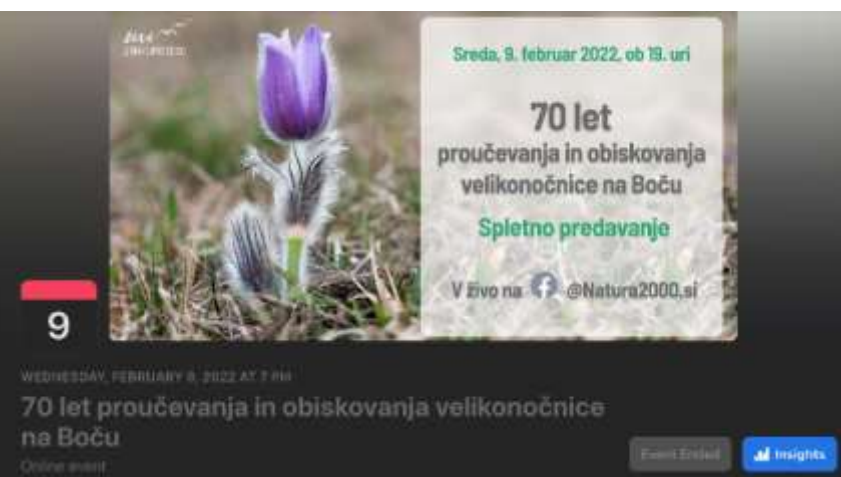


*Winter holidays program for
children in nature parks*



*IG reel for the call for the applications
for grasslands (Štajerska)*

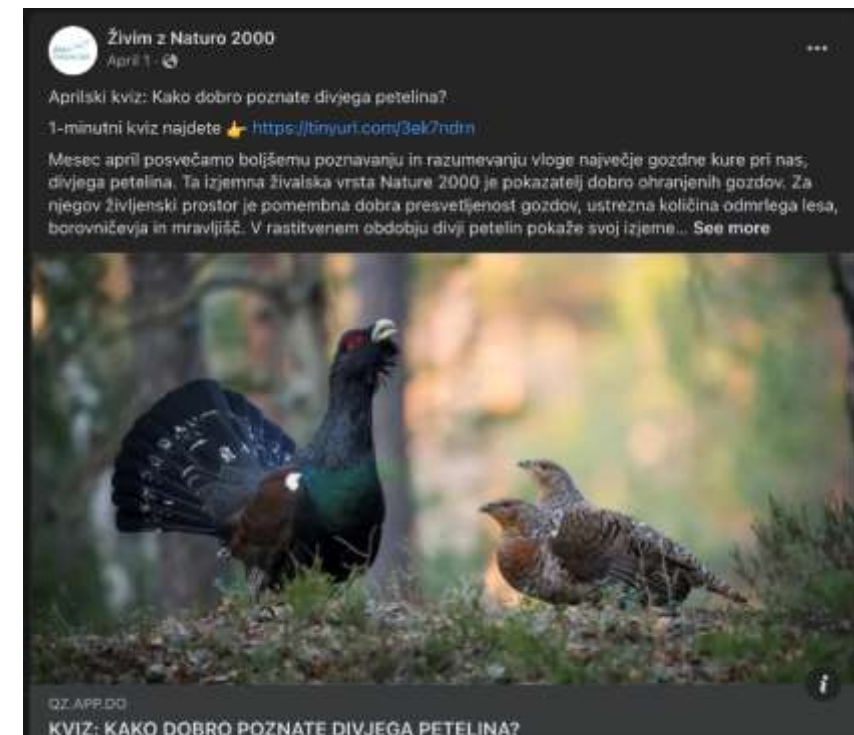
E.3 TOP content 1-5/2022



Facebook event for *Pulsatilla grandis*



Collecting flowers on memory cards



Online quiz for *Capercaillie*

200+ participants

E.4 Communication support for 4 pilot areas of concrete conservation actions

Living with Natura 2000

Through communication strategy and specific communication plans, we are supporting and creating best practices of Natura 2000 in the field.



E.4 Communication support for 4 pilot areas of concrete conservation actions

Foreseen start date: **January 2021**

Actual start date: **October 2019**

Foreseen end date: **December 2026**

Actual (ant.) end date: **December 2026**

10 Local media releases (At least 2 per pilot area)	December 2024	2 in 2020 4 in 2021 2 in 1-5/2022
10 Schools natural science days	December 2026	4 in 2021 1 in 1-5/2022
4 Exhibition month of nature literature Libraries	December 2024	4 in 2021 3 in 1-5/2022
5 Reports on communication support for 4 pilot areas	December 2024	1 in 2020 1 in 2021

Name of the Milestone	Deadline	
4 established cooperation with local media in pilot areas (one per year)	December 2024	Implemented & in progress
Established cooperation with schools, municipalities and libraries in pilot areas	December 2021, 2022, 2023, 2024	Implemented & in progress

Results

10.000 people reached with the information about Natura 2000 in the area – **implemented & in progress**

Established communication with municipalities, libraries and schools according to plan – **implemented & in progress**

Support from the experts' team if needed – **implemented & in progress**

Causes for the delay/problems	Measures taken	Status
2020 - 2022: According to the dynamics of partners		On-going according to project documentation

E.4 Communication support for 4 pilot areas of concrete conservation actions 11/2021-5/2022

Foreseen start date: **January 2021**

Actual start date: **October 2019**

Foreseen end date: **December 2026**

Actual (ant.) end date: **December 2026**

Štajerska Area	Slovenska Istra Area	Kamniško-Savinjske Alpe in Grintovci Area
Facilitation and Consultation		
Project's action for <i>Pulsatilla grandis</i> (Institute of the Republic of Slovenia for nature conservation, Ministry of the Environment and Spatial Planning, UL-Biotechnical Faculty)	Planning for the whole pilot area (all partners for pilot area)	Project's action for Marsh <i>gladiolus</i> (Institute of the Republic of Slovenia for nature conservation, Agriculture and Forestry Institute Ljubljana, Ministry of the Environment and Spatial Planning, UL-Biotechnical Faculty)
Communication, Media relations and Digital communication		
Farming and Natura 2000 (Ministry of the Environment and Spatial Planning, Agriculture and Forestry Institute Ptuj)		Campaign The capercaillie's courtship dance Workshops for schools (Slovenian Forestry Institute)
Invasive plant species (Slovenian Water Agency, Institute of the Republic of Slovenia for nature conservation, Agriculture and Forestry Institute Ptuj)		Project's action for Marsh <i>gladiolus</i> (Institute of the Republic of Slovenia for nature conservation, Agriculture and Forestry Institute Ljubljana, Ministry of the Environment and Spatial Planning, UL-Biotechnical Faculty)
Graphic design and promotional material		
		Info board for Marsh <i>gladiolus</i>
Photo Exhibition Natura 2000 and Wild Slovenia Film - Nature unites (Natura 2000 month in libraries)		
Library Ptuj	Library Piran	Library Kamnik
	High school Izola	

E.4 Communication for Marsh gladiolus

Implemented activities in 2022

- cooperation with the farmer and Alpine Society of Kamnik for better hiking trail management
- 4 new info boards are going to be placed around the mountain pasture (the site of Marsh gladiolus) in July 2022

Gorski pašniki pod Kamniškim vrhom

Kamniško-Savinjske Alpe so del evropskega naravovarstvenega omrežja Natura 2000.

Območje ima zelo bogato floro in favno, med katerimi so pionirski gozdovi črnega bora ter pomembni deleži slovenskih populacij malega skovika, divjega petelina, ruševca in belke. V gozdovih so rastišča lepega čevljca, na traviških pa rastišča močvirskega mečka. V višjih legah rasteta Bertolonijeva orlica in Zoisova zvončica.



Močvirski meček



Črtasti medvedek



Zoisova zvončica



Člusičev svišč

Planinci lahko prispevamo k ohranjanju gorskih pašnikov

Delovanje erozije je najbolj vidno na gruščnatih stezah na gorskih pašnikih. Narava in kmetje tako izgubljajo površine. Kako lahko planinci pri tem pomagamo?

Pri hoji po planinskih pašnikih vas prosimo, da:

izbirate označene planinske poti

hodite ob robu pašnikov in izbirate steze, ki najmanj posegajo v pašnik

pse vodite na povodcih in se izogibate stiku z živalmi na paši

skrbno uporabljate pašno in drugo infrastrukturo na poti

Hvala, ker pomagate ohranяти gorske pašnike in pestro naravo Kamniško-Savinjskih Alp!

E.4 Communication support for 4 pilot areas of concrete conservation actions

Results/activities performed (November 2021- June 2022):

- Project dissemination at Open day of SFI and SFS (26th May) – workshop "Balance in nature" for 300 schoolchildren was performed under project LIFE-IP NATURA.SI.



E.5 National communication activities

The diverse nature is Slovenian national identity

Nature has an important status in Slovenian national identity. With strategic communication on the national level, we empower the meaning of nature protection and conservation as the fundamental sector for a healthy society and social and economic development.



E.5 National communication activities

Sub-Action	Foreseen / Actual start date	Foreseen / Actual (ant.) end date
Sub-Action E.5.1: Media relations	June 2019	December 2026
Sub-Action E.5.2 National reward for best practise	January 2021	December 2024
Sub-Action E.5.3 Communication with education system activities	June 2019	December 2024
Sub-Action E.5.4 Farmers for Natura 2000	June 2019	December 2026
Sub-Action E.5.5 Communication with inhabitants in Natura 2000 sites	March 2020	December 2026
Sub-Action E.5.6 Guerilla marketing (events, video and web national communication)	January 2021	December 2026
Sub-Action E.5.7 100 years of nature conservation in Slovenia (Spomenica 1920)	June 2019	December 2020

E.5 National communication activities

Foreseen start date: **June 2019**

Actual start date: **June 2019**

Foreseen end date: **December 2026**

Actual (ant.) end date: **December 2026**

Name of the Deliverable	Deadline	
Yearly report on media coverage (type of media announcements (tv, radio, print, web), attitude in these media (positive, negative, neutral))	February 2020 – Spomenica report; December 2020, 2021, 2022, 2023, 2024, 2025, 2026	Implemented for Spomenica Implemented for 2020 Implemented for 2021
10 lectures for education organisations	December 2024	In progress
List of best practices (agriculture and Natura 2000)	December 2021	Implemented
Leaflets for inhabitants in Natura 2000 sites	December 2024	In planning

Name of the Milestone	Deadline	
Implemented national reward event	December 2022, December 2024	In progress
Implemented celebration activities for 100 years of nature conservation activities in Slovenia	December 2020	Implemented

Results

At least 200 people at the events – **implemented - 385 (45 - press conference Spomenica, 91 - press online event Natura 2000 Day, 50 exhibition opening Natura 2000 and Wild Slovenia, national cooperation with cohesion projects – 74, – 125)**

At least 30 media announcements – **implemented - media articles 469 (166 - 2020; 223 - 2021, 80 - 1/5-2022)**

At least 10 lectures for education system – in planning (2 implemented)

At least 10 lectures at farmers' events – **in progress with KGZS**

At least 1.000 leaflets distributed in Natura 2000 sites - not started yet

At least one national event with the decision makers - in planning

Causes for the delay/problems	Measures taken	Status
2020 - 2022: No delays		On-going according to project documentation

E.5 Guerrilla communication action for Pulsatilla grandis

Communication plan

70 years of exploration and visiting
the greater pasque flower

On-line event in
February 2022

125 attendees

2 hours of
presentations and
discussion

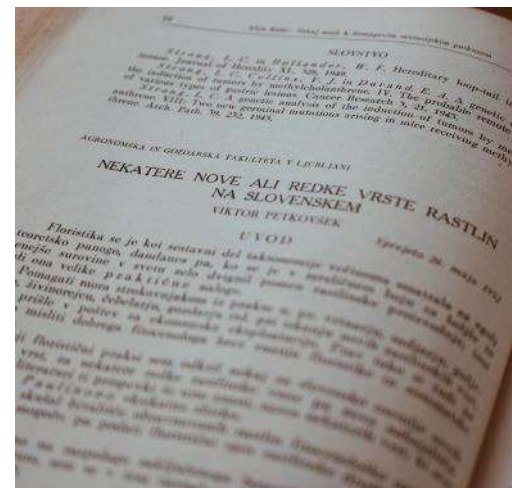
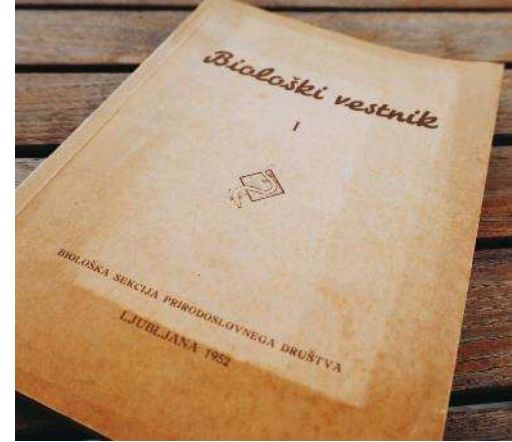
154 views on
YouTube

Digital
communication:
- online quiz
- social media
posts

Short
documentary film
about Pulsatilla
grandis and
Natura 2000 site
Boč-Haloze-
Donačka Gora

Premiere in Autumn
2022

Communication
of the
agreement with
Alpine Society
Poljčane



E.5 Guerrilla communication action for the Capercaillie and 2 Natura 2000 sites

Communication plan

The Capercaillie's courtship dance

Media relations

- Press release
- 20 media articles

Digital communication

- Online quiz
- Social media posts

Thematic polygon

- Forest pedagogy
- Two languages
- Cooperation with municipality in pilot area
- Cooperation with Museum of forestry and timber Vrbovec

Schools in 2 Natura 2000 sites

- 47 board games for 47 schools in 2 Natura 2000 sites

Events

- Opening ceremony
- Guided tours for schools

Ples največje gozdne kure pri nas

V 50. in 60. letih prejšnjega stoletja se je v Sloveniji začel razvoj trajnostnega, sonaravnega in večnamenskega gospodarjenja z gozdom, tako imenovane slovenske gozdarske šole, njen utemeljitelj je bil prof. dr. **Dušan Minšek**. Slovenski sistem gospodarjenja z gozdovi v osrednje postavlja gozd kot ekosistem, njegovo ohranjanje in sonaravni razvoj ter kakovostno gospodarjenje in trajnostno rabo vseh dobrin in storitev gozda v dobro narave in ljudi. V vseh slovenskih gozdovih se gozdarji skladno z gozdnogospodarskimi načrti, ki upoštevajo naravovarstvene smernice, in programom upravljanja območij Nature 2000. »Na pilotnem območju Kamniško-Savinjske Alpe in Grintovci izvajamo aktivnosti za okrepljeno upravljanje Nature 2000 in konkretne akcije za ohranjanje divjega petelina, gozdnega jereba, koconoznega čuka

A photograph of a Greater Prairie-Chicken standing in a field of tall grass and shrubs. The bird is facing left, showing its head, neck, and upper body. It has a mottled pattern of brown, black, and white feathers. The background is a soft-focus landscape with green grass and some small trees or shrubs under a bright sky.

vzhodnih Alp in severozahodnih Dinariidov. Osrednji del razširjenosti predstavljajo države severne Evrope in pribaltske države ter Rusija.«

v projektu LIFE-IP NATURA-SI so v letu 2020 v sodelovanju z lovskimi družinami na pilotnem območju Kamniško-Savinjske Alpe in Grinotvcv ter z zaposlenimi v LPN Kozorog Kamnik popisali rastišča in habitat divjega petelina. »Pri popisu so poleg številčnosti osebkov analizirali tudi njegov življenjski prostor oziroma kakšen je delež pokritosti z borovničevjem in kako pogosto so prisotna marjavišča ter delež oddaljene mase,« so povedali in dodali, da so s primerjavo rezultatov vseh obstoječih raziskav od 80. let prejšnjega stoletja dalje ugotovili, da populacija divjega petelina na območju Slovenije upada. Upadanje je opazno tudi na območju Kamniško-Savinjskih Alp, a je vseeno manj izrazito kot na drugih območjih države, saj ima divji petelin tukaj najboljše razmere v Sloveniji. Npaj populaciji je manj izrazit v višinskem pasu od 1400 do 1600 metrov. Ta populacija predstavlja eno močnejših jeder v Sloveniji, ki jo je vsekakor treba ohraniti in krepiti. x

Ples divjega petelina

**Pripravljajo tematski poligon za otroke v Nazarjah, ki bo
zaživel maja ob Tednu gozdov**

[illegible]

Otroci bodo spoznavali življenje, navade, običaje in ogroženost petelina

Marijan Benča 2. Zaveda za
gledovalce Slovenije OT Kladar-
je poudarja predvsem pomen
ozavešanja mladih: »Zato je
ena izmed ključnih točk priprave
nastopajočih poliglaz za otroke,
ki ga bomo razpravljali, postrežili
ob tednu zgodovinske dediščine
in razpisali tudi literarno delo
stanovne enote. Namenjena bo
vsebu shikovalcev in pred-
stavlja v naravi, kar se bodo
izvajale dodatne naloge na ta
temo. Ko se bodo otroci igrali,
bodo spoznavali življenje, navi-
de, običaje, ogroženost petelina
in ostalih živali v naši vrti.«

Kako dobro so ozavešeni
mladi, so zavedajo vrednosti
gleda in naravnih dediščin?

»Zelo dobro. Glede na to da se
vse bolj splošno obsejajo za
vrednosti, lahko potrdim, da
mladi hitro ozavešeni. Prav

ako bihla niteno deluje na druge, to je smisel, niti godzdarji in delavci gozdarstev se vsiljujejo prihodnosti in delujejo v okviru gozdne politike. Zato radi povabilo: razmislite o gozdu, saj stejeni gozdni in navaajo ponovno in prebrskavne gozdne. Zdal pa se, ko očitnostno, to zaradi naravnih interakcij ne stavila na stran, prejeti varstvo perne narave.

Ploč dvigova potolina pa ni odini projekt. In bi prepravilno v okviru Telesa gozdnih in Gozdnih moči notri Kazarje. Njihova dmočnosa enota je pripravila tri načrte. »Vredje tle zapostavljajo,« pravi, »vendar se ne videti kaj vem o gozdu, in tle, kaj je zelo zaradi vseh na na nje. Kolje kot sleherni, bi se posredno. Drugi projekt pa natanja vsa vodstvena v četelnarstvo, in na blaznovo, to je sajmo (delovnih) razredov, in to sajmo zaradi vsa preostali in čisto po delu,« pravi profesor Mariani Dežan.



Pomlad je čas, ko v naših gozdovih zapoje divji petelin

SLOVENIJA | Avtor: T. Lo. | 21. Mar. 2022 11:59 > 12:24 | ■

Follow us on:



21. marca, na mednarodni dan gozdov, projekt LIFE-IP NATURA začena akcijo ozaveščanja o največji gozdni kuri pri nas – divjem petelinu. Njegova prisotnost nakazuje na dobro ohranjenost gozdov. V preteklosti je poseljeval večino Slovenije, celo ljubljanski Rožnik, njegova številčnost pa je zaradi različnih motenj v njegovem življenjskem prostoru vsako leto manjša.

LIFE-IP NATURA.SI, projekt v sklopu Nature 2000, je letošnji mednarodni dan gozdov izkoristila za boljše poznavanje in razumevanje vloge divjega petelina, največje gozdne kure pri nas. "Ta izjemna živalska vrsta Nature 2000 je pokazatelj dobro ohranjenih gozdov," so zapisali v sporočilu za javnost.

Namizna igra PLES DIVJEGA PETELINA

živi 
Z NATURO 2000



E.5 Communication for renovated operation of Agri-environment-climate payments for *Crex crex*

Communication with agricultural organisations and farmers

2 online events

Published on
YouTube channel

Digital communication

Key messages

Website news, Q&A

Video: a farmer
visiting an
agricultural
consultant

10 social media posts
reach: 11,000

Media relations

Press release

5 articles in
agricultural
newsletter Network
for countryside





Slovenian Award
NATURA 2000

E.5 Slovenian Natura 2000 Award

Communication plan

30 years of LIFE programme & Natura 2000 in EU.
18 years of Natura 2000 in Slovenia.

Preparation phase

- October 2021-March 2022
- Comprehensive overview of LIFE programme and Natura 2000 history in EU and Slovenia
- Website upgrade
- Newsletter for institutions and organisations

Jury appointment

- 15 partners of LIFE-IP NATURA.SI nominated jury members and confirmed 8 members

Launch of Slovenian Natura 2000 Award

- Natura 2000 Day
- Press release
- Social media posts
- Video My Natura 2000

Promotion for applications

- 1/9/2022 - the last date to apply
- 1/9/-26/9/2022 assessment of applications
- 1/10/2022 - finalists announcement

Natura 2000 Award Tour

- 5 events - one per category winner
- workshops, round tables, study visits
- focus on regional and local media

E.5 Photo Album My Natura 2000

Personal view of associates for Natura 2000 on the history of
Natura 2000 and LIFE programme in Slovenia



E.5.4 FARMERS FOR NATURA 2000

E.5.4 - activities that still need to be performed until December 2026:

- *10 lectures about Natura 2000 – in implementation*
- *Quiz Youth and agriculture – completed*
- *Countryside in the city – 2023*
- *Study circles („panožni krožki“) – 2023-2026*



E.5.4 FARMERS FOR NATURA 2000

• 10 lectures about Natura 2000

- In the winter-spring period, we did 8 virtual lectures with each KGZ institute.
- Participating partners:
 - LIFE IP: KGZS, KGZ LJ, KGZ NG, KGZ PT, ZRSVN, MKGP, Štirna
 - External: KGZ CE, KGZ KR, KGZ NM, KGZ MS, KGZ MB, Triglav National park, Nature park; Ljubljansko barje, Goričko
- Until now we've had more than 350 participants.
- Next two lectures will be organised within KGZS events. (e.g. Fair AGRA 2022)
- Expected completion: December 2022

Program predavanja	
9:30-9:35	Uvodni posred
9:35-9:50	Kmetijstvo in naravovarstvo za prihodnost ohranjenih naravnih in trajnostnega kmetijstva (Kmetijsko gozdarska zbornica Slovenije)
9:50-10:10	Živalske in rastlinske vrste, ki potrebujejo kmetijstvo in kmetijstvo potrebuje njih (Zavod RS za varstvo narave, Javni zavod Krajinski park Ljubljansko barje) o Pomen biotske pestrosti v kmetijstvu o Invazivne tujerodne rastline v kmetijstvu o Dobre prakse sodelovanja kmetijstva in varstva narave v projektih Nature 2000
10:10-10:30	Priložnosti Skupne kmetijske politike 2023 - 2027 za Natura 2000 (Ministrstvo za kmetijstvo, gozdarstvo in prehrano)
10:30-11:10	Varstvo narave in kmetijstvo z roki v roki na terenu (Kmetijsko gozdarski zavod Ljubljana) Predstavitev dobre prakse dobrih praks o Kmetovanje na barju – primer kmetije o Nekaj življenj za kmetovanje na območjih Nature 2000
11:10 - 11:30	Poudarki za vlagatelje SUBVENCIJE 2022 (Kmetijsko gozdarski zavod Ljubljana)
11:30	Razpore - čas za vprašanja



Številka: 511-1/2022-3
Datum: 10.02.2022

VABILO

Spoštovani,

Vabimo vas na spletno predavanje

Dobre prakse naravi prijaznega kmetijstva v območjih Nature 2000,
ki bo v torek, 22. 2. 2022, med 9:30 in 11:30
na spletni platformi Zoom

Prijave zbiramo na povezavi: <https://forms.gle/vnBaAF4F8GSMrVh4R>
do 21.2. 2022 do 12. ure.

(pomoč pri prijavi na e-mail: matjaz.mocnik-gron@kgzs.si)

Povezavo do predavanja vam bomo posredovali en dan pred dogodkom.

Na predavanju bodo z vami strokovnjaki varstva narave in kmetijstva, ki bodo predstavili:

- Kmetijstvo in naravovarstvo za prihodnost ohranjenih naravnih in trajnostnega kmetijstva (Kmetijsko gozdarska zbornica Slovenije)
- Živalske in rastlinske vrste, ki potrebujejo kmetijstvo in kmetijstvo potrebuje njih (Zavod RS za varstvo narave, Javni zavod Krajinski park Ljubljansko barje)
 - o Pomen biotske pestrosti v kmetijstvu
 - o Invazivne tujerodne rastline v kmetijstvu – primer dobre prakse odstranjevanja
 - o Dobre prakse sodelovanja kmetijstva in varstva narave v projektih Nature 2000
- Priložnosti Skupne kmetijske politike 2023 - 2027 za Natura 2000 (Ministrstvo za kmetijstvo, gozdarstvo in prehrano)
- Varstvo narave in kmetijstvo z roki v roki na terenu (Kmetijsko gozdarski zavod Ljubljana)
 - o Kmetovanje na barju – primer kmetije
 - o Nekaj življenj za kmetovanje na območjih NATURA
- Poudarki za vlagatelje SUBVENCIJE 2022 (Kmetijsko gozdarski zavod Ljubljana)

Predavatelji bodo ob zaključku na voljo tudi za vaša vprašanja.

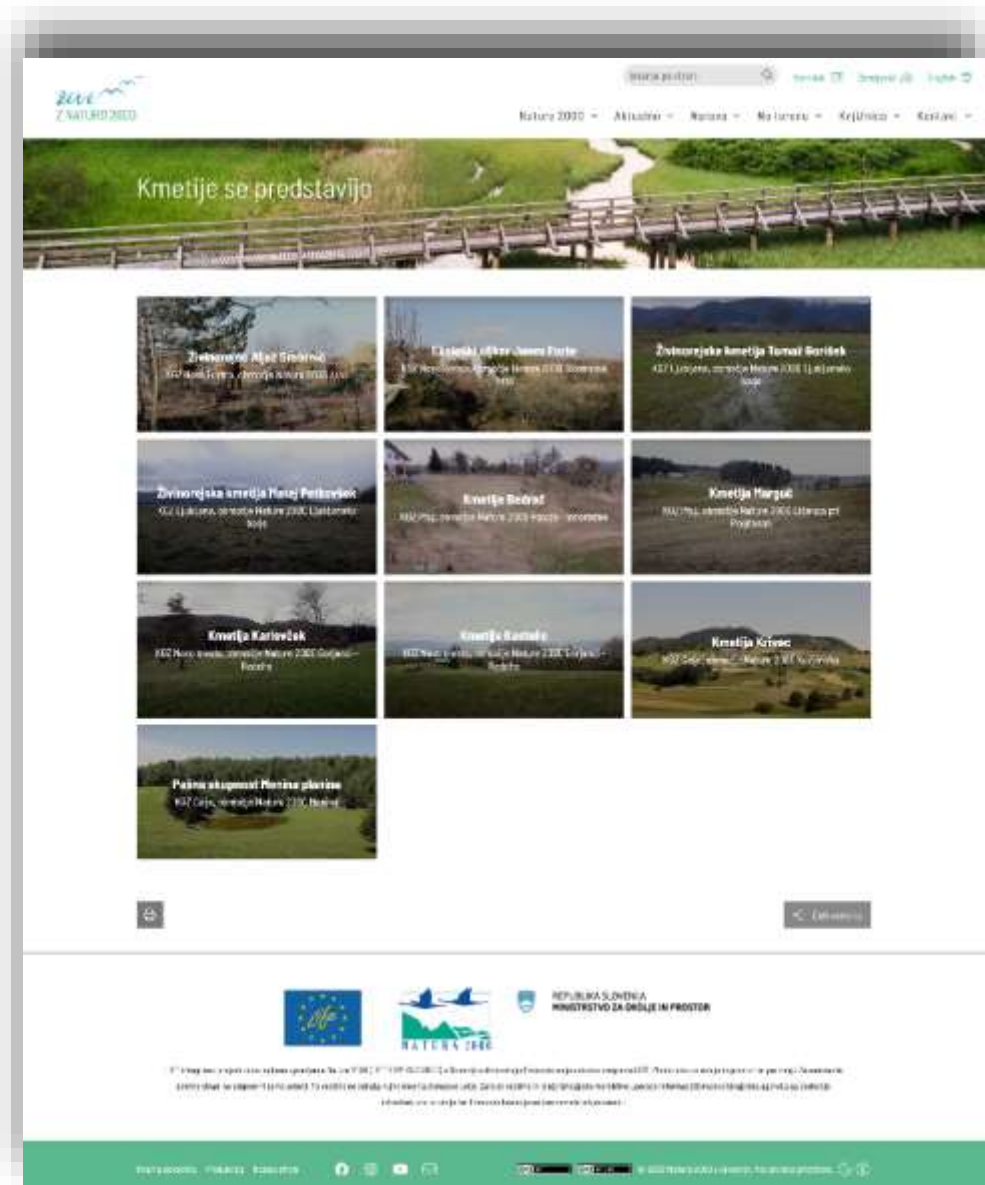
Predavanja organizira Kmetijsko gozdarska zbornica Slovenije s partnerji v okviru projekta [LIFE-IP NATURA SI](https://www.natura.si/)

Vijudno vabljeno!



LIFE integrativni projekt za ukrepanje opazovanja Natura 2000 v Sloveniji (LIFE17-IP-000011) sofinancirajo Evropska unija v okviru programa LIFE, Ministrstvo za okolje in prostor ter partnerji. Za morebitne dodatne informacije in prijavo na predavanje se obrnite na odgovorni kmetijski svet. Za vse dodatne informacije in prijavo na predavanje se obrnite na odgovorni kmetijski svet. Za vse dodatne informacije in prijavo na predavanje se obrnite na odgovorni kmetijski svet.





E.5.4 Farmers for Natura 2000: Survey results

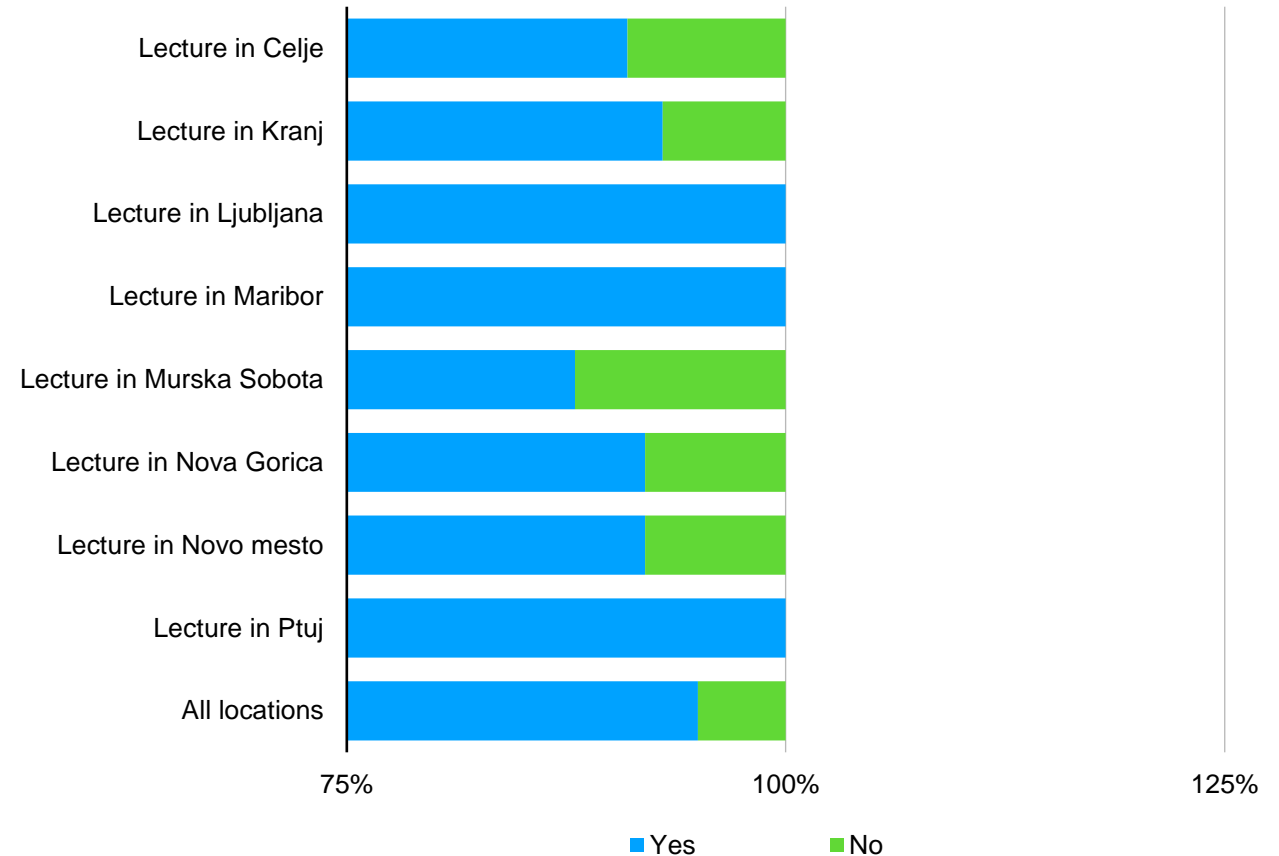
355 attendees at 8 lectures

50 % attendees responded to the survey

95 % people got new information about Natura 2000

57 % people are not participating in operations of Agri-environment-climate payments

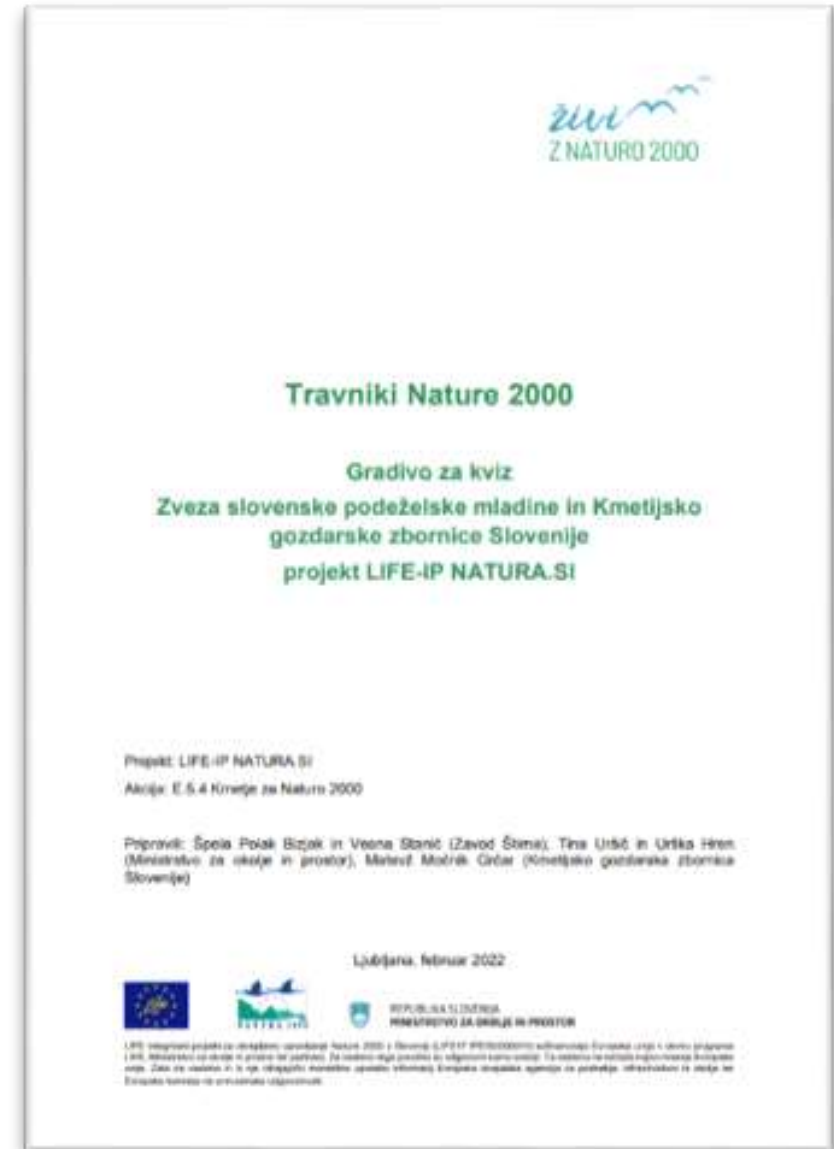
Did you get new information about Natura 2000 at the lecture?



E.5.4 FARMERS FOR NATURA 2000

- **Quiz Youth and agriculture**

- Quiz topics :
 - Grasslands in Natura 2000 sites
 - Krškopolje pig
 - Seed production
 - The European Youth goals 2020
- Regional competitions in May followed by national on 4th June.
- Literature, questions and answers for our topic were prepared by Štirna, MOP and KGZS.
- The member of expert committee for Natura 2000 topic was Maja Cipot.



E.5.4 FARMERS FOR NATURA 2000

National Quiz Youth and agriculture, Žužemberk 2022

- Competition consisted of the best 11 teams with 3-members of rural youth from all SLO regions.
- Winning team comes from Gorenjska.

				PRVI KROG								DRUGI KROG								TRETJI KROG						ČETRTI KROG						
				N	S	P	M	N	S	P	M	N	N	S	P	S	P	N	S	P	N	S	P	M	N	S	P	S	M	P		
MESTO	ŠT	EKIPA	SKUPNO TOČK	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	1	2	3	4	5	6
7	1	DPM Metlika	20	1	1	1	1	1	0	0	0	2	1	1	1	0	0	0	1	1	0	2	2	0	2	2						
4	2	DPM Šmihel nad Mozirjem	25	1	1	1	1	1	0	1	0	1	2	1	1	0	0	0	1	1	2	2	2	2	2	2	0	0	0	0	0	0
7	3	DPM Mirna Peč	20	1	1	1	0	1	1	0	0	1	1	1	1	0	0	0	1	2	2	0	2	2	2	0						
1	4	Društvo Kranjske in Tržiške podeželske mladine	38	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	2	2	4	2	2	0	3	3	0	3	0	3
2	5	DPM Mislinjske doline	29	1	1	1	1	2	1	1	0	1	1	1	1	0	0	0	1	1	2	2	2	2	2	2	0	0	0	0	3	0
3	6	DPM Velike Lašče	28	1	1	1	0	1	1	0	1	1	1	1	1	0	1	0	1	1	2	0	2	2	4	2	0	0	3	0	0	0
10	7	DPM Spodnje Podravje	19	0	1	0	1	1	1	0	0	2	1	1	1	0	0	0	1	1	2	2	0	2	0	2						
7	8	DPM Sv. Jurij ob Ščavnici	20	0	1	1	1	1	1	1	0	1	0	1	1	2	0	1	1	1	2	0	2	0	0	2						
5	9	DPM Brežice	23	0	1	1	1	1	2	1	0	1	0	1	1	1	0	0	1	1	2	0	2	2	2	2	0	0	0	0	0	0
11	10	DPM Vrsnik-Ledine	10	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	2	0	2	0	0						
6	11	DPM Suha krajina	22	0	1	1	1	2	1	0	0	1	1	0	1	1	1	1	0	0	1	2	2	2	0	2	2					



E.5.4 FARMERS FOR NATURA 2000

- *Countryside in the city*
- Events for this year are canceled.
- New events are planned for spring 2023.
- Next meeting for implementation of this activity is planned for winter time 2022/23.



E.6 NETWORKING

Expected results of action/subactions:

- ☐ 5 study visits for at least 15 people ✓ in progress
- ☐ At least 20 lectures / presentations of the LIFE project, heard by 200 people ✓ in progress



1st LIFE AMPHICON international conference

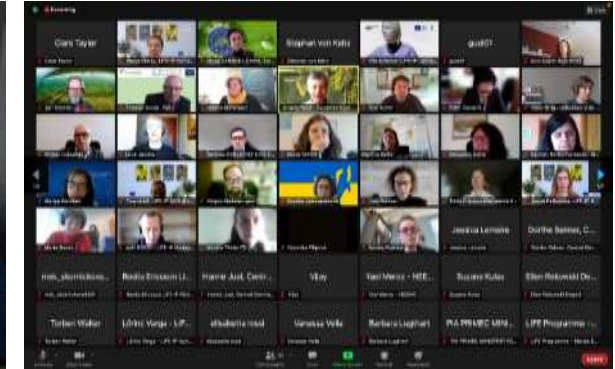
E.6 NETWORKING

List of activities performed:

- Networking with 15 LIFE projects
 - Life to Grasslands, Life GoProFor, BNIP, LIFE IP Care4Climate, LIFE EuroLargeCarnivores, LIFE AMPHICON, LIFE ARTEMIS, Meadow Bird LIFE, LIFE NarclS, LIFE Stržen, LIFE IP LatViaNature, LIFE ViVaCCAdapt, LIFE for SEEDS, LIFE Lynx, LIFE IP RESTART
- Networking with 14 other projects
 - Interreg IT-SLO NAT2CARE, ECO-SMART, ENGREEN, GREVISLIN, Interreg Central Europe Beech Power, BID-REX, Interreg SLO-HR Vezi narave, Interreg Alpine Space AlpTrees, Interreg Adrion DINALPCONNECT, Interreg SLO-AT goMURra
 - ERDF: Gorička krajina, KRAS.RE.VITA, Mala barja – Marja, Natura Mura, PIVKA.KRAS.PRESIHA, Pohorka, PoLJUBA, VIPava, VrH Julijcev, zaDravo, ZA KRAS,
 - EAFRD: EIP VIVEK
 - Obzorje 2020 SHERPA
- Attending at 28 events in Slovenia, 11 EU events
- Attending at 38 online events
- 14 presentations of the project/results (heard by more than 400 people)
 - recent: 1st LIFE AMPHICON international conference, 39. Meeting of Eastern Alpine and Dinaric Society for Vegetation Ecology (EADSVE)



Event of ZA KRAS



Online event: Communication Workshop for LIFE integrated projects



5th Natura 2000 monitoring workshop (CRO)

E.6 NETWORKING

Causes for the delay/problems

measures taken

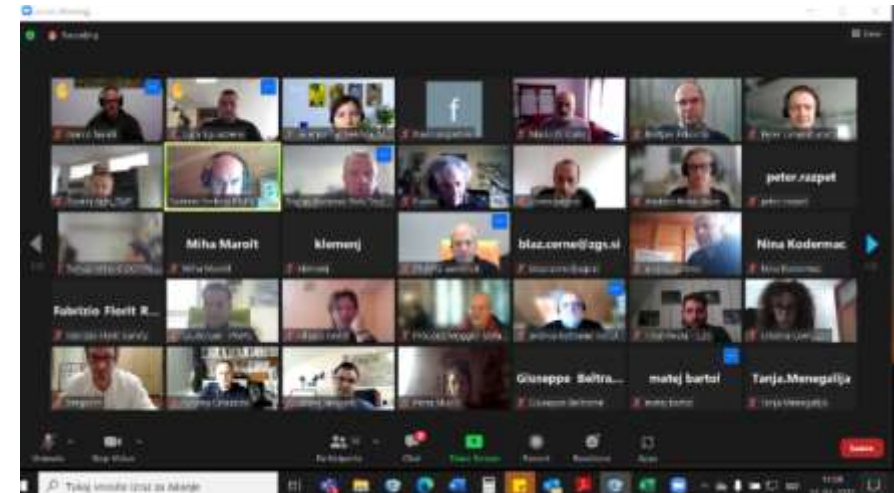
status

No delays

Activities that still need to be performed:

- 5 study visits for at least 15 people
- At least 6 lectures / presentations of the LIFE project

Number of people, hearing the presentations: achieved (> 400)



Online event: workshop for
actionplan - DINALPCONNECT

5th pillar

Management,
progress &
impact of the
project actions



D.1: Monitoring of the impact of project actions on species and habitats

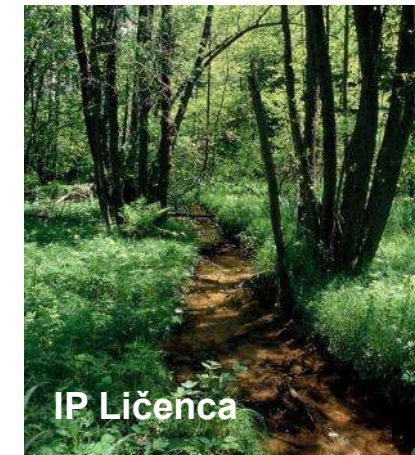
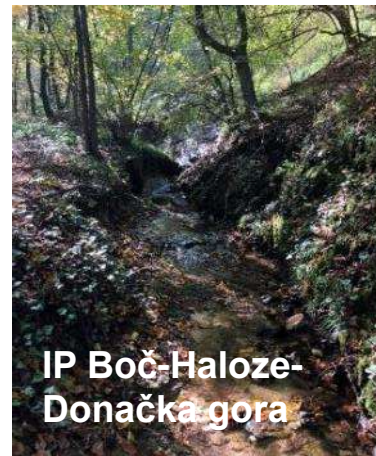
- Conservation measures for species/HT in under way
 - Forest HT and species
 - Grasslands of Štajerska region
- Protocols for gathering data drafted, coordination with other project partners
- Reports will be made in october 2022
- Some activities of monitoring of impact of project actions already performed



D.1. MANAGEMENT, PROGRESS & IMPACT OF THE PROJECT ACTIONS

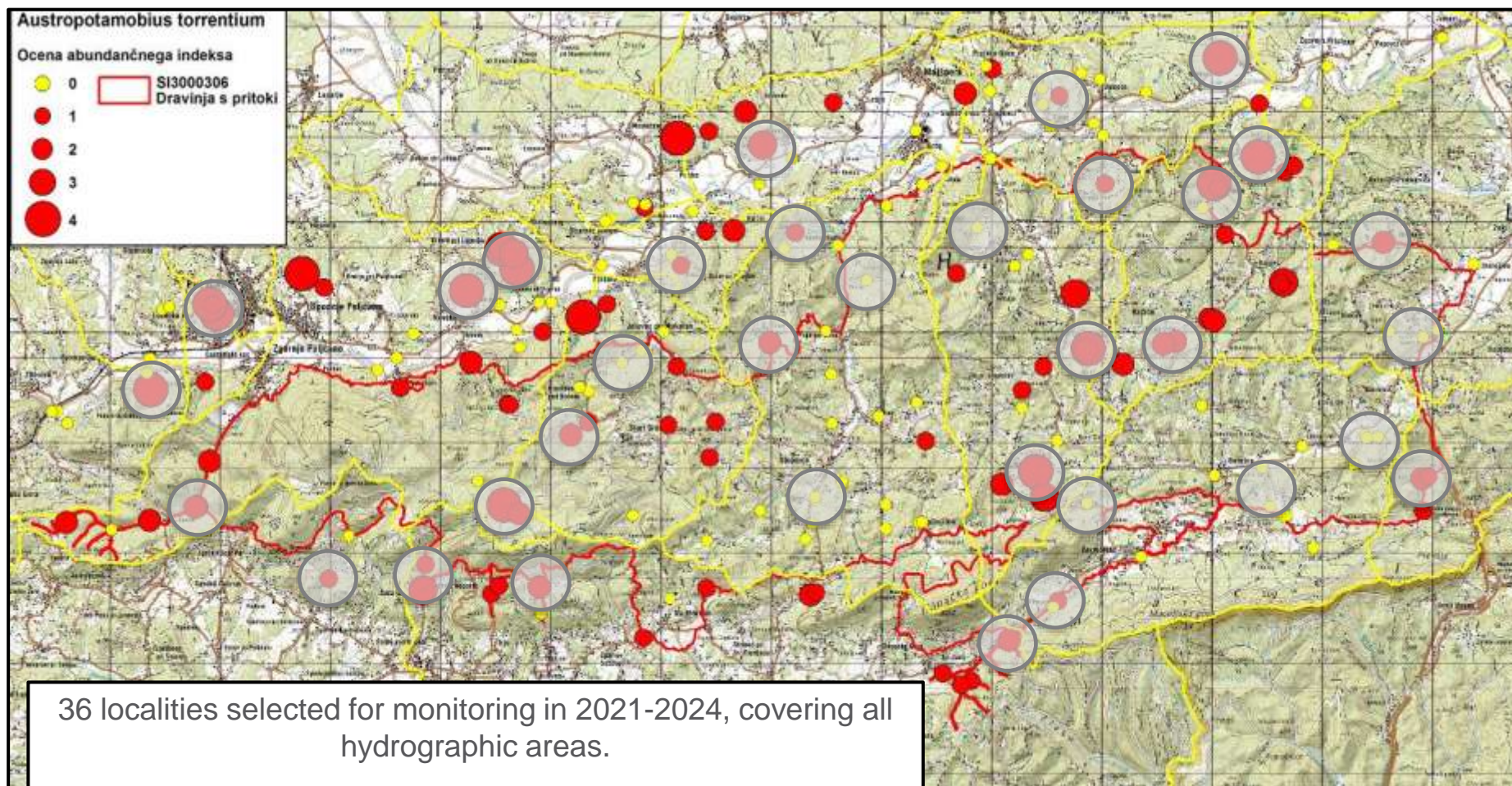
D.1.1. Monitoring the effectiveness of project activities on selected species and habitat types in IP areas

Performed by NIB



D1.1. Stone Crayfish: Q3 2022

IP area Dravinja & Boč-Haloze-Donačka gora



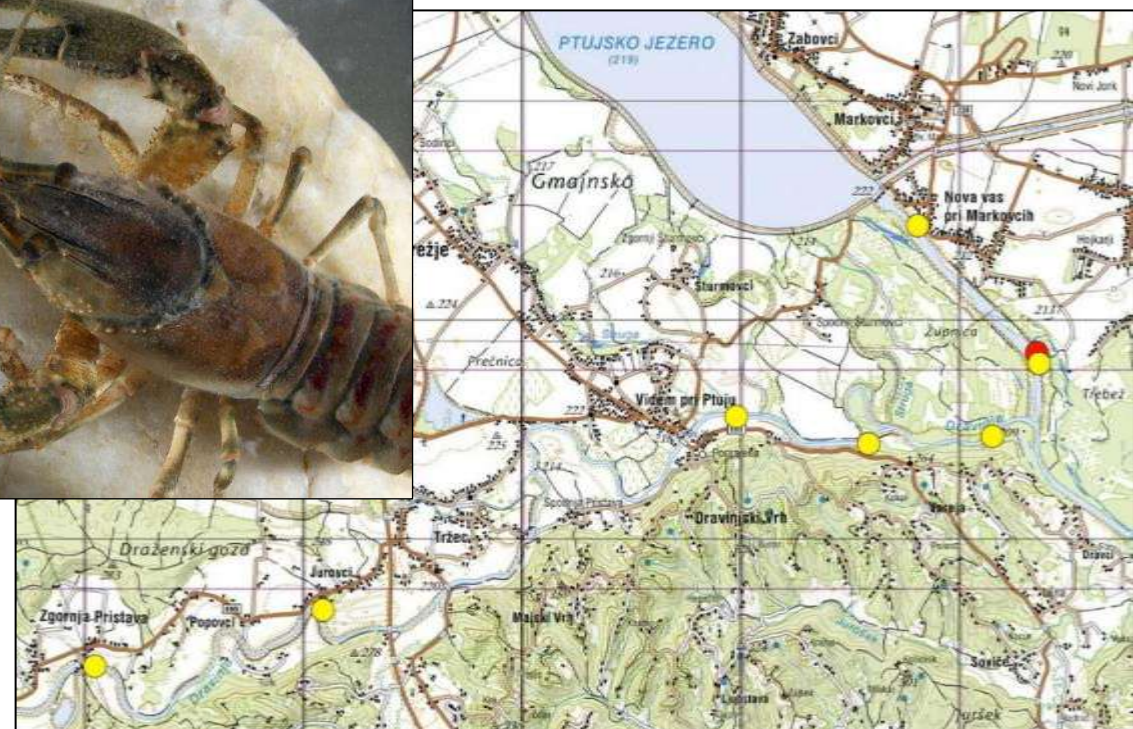
36 localities selected for monitoring in 2021-2024, covering all hydrographic areas.

Fieldwork to be executed: Q3 2022

Monitoring of Stone Crayfish habitats and population state.

D1.1. Spiny-cheek Crayfish: 2022

- Leading partner in this C 1.4 action is Fisheries Research Institute of Slovenia (ZZRS)*.
- Great effort and a lot of professional work invested by ZZRS in removal of Spiny-cheek Crayfish by different methods.
- No spread of this invasive species to Drava River detected yet and currently no negative impact on Stone Crayfish in the Natura 2000 site Dravinja s pritoki.
- **Fieldwork to be executed: Q3 2022**



 species recorded 2019/2020/2021

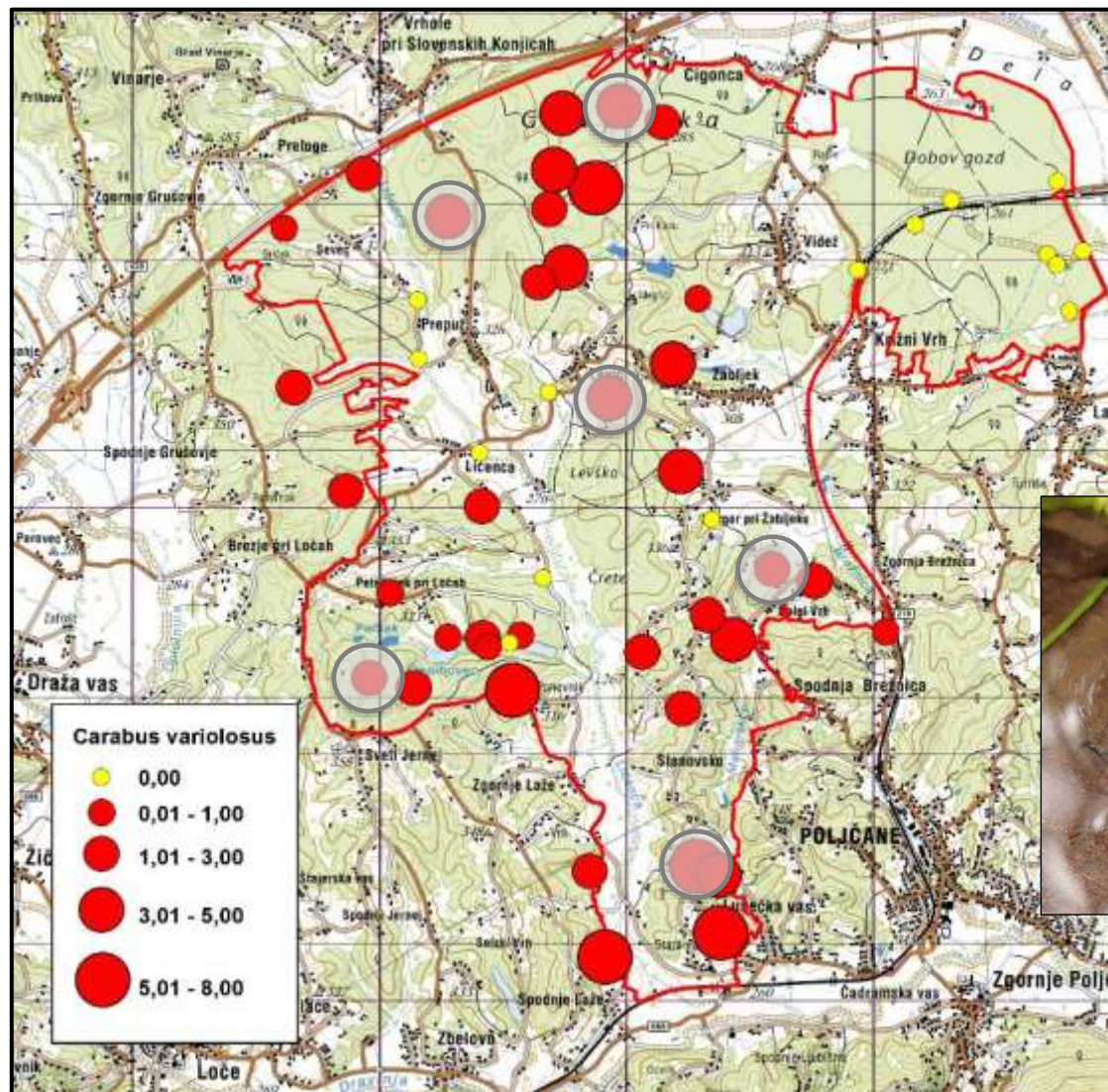
 species not found 2019/2020/2021

Beetle *Carabus variolosus*: IP area Ličenca



- Knowledge on the occurrence, habitat requirements and conservation status of *Carabus variolosus* in Natura 2000 site Ličenca pri Poljčanah greatly improved.
- **The populations are currently in good conservation status, abundances high.**
- **Systemic protection measures - narrower strict protection zone for the species, directly next to the forest streams defined. Here, any forest management interventions (logging, skidding trails, etc.) should be avoided.**
- Inclusion of this spatial layer into forest management plans and other land use plans and plans for use of natural resources.

D1.1 *Carabus variolosus*: 2022 IP area Ličenca

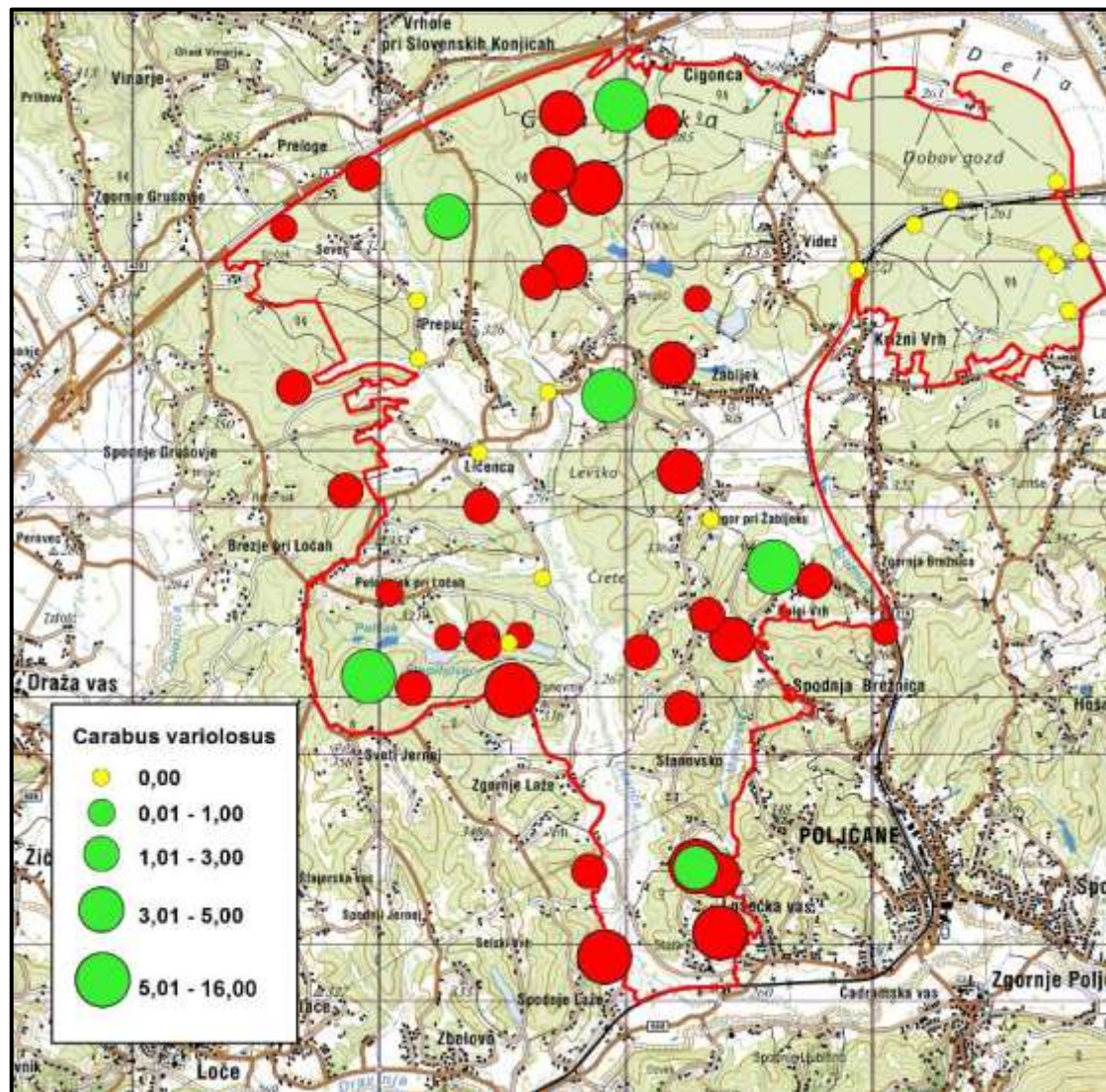


Previously known from a single locality, it was recorded at 37 localities during 1st phase of LIFE IP.

6 localities selected for monitoring in 2021-2025, with method for population monitoring.



D1.1 *Carabus variolosus*: 2022 IP area Ličenca



6 localities selected for monitoring in 2021-2025, with method for population monitoring.

Fieldwork in June 2022: results overall good, populations and habitats currently mostly in good conservation status, abundances high.

**Median RAA :
3,3 - 2020; 4,2 - 2021; 7,6 - 2022**

D.1: Monitoring of the impact of project actions on species and habitats

Monitoring of the impact of project actions on species and habitats implemented by GIS



D.1 Monitoring of the impact of project actions on species and habitats:

2 selected forest habitat types: 91E0 and 9180**



Project activities performed:

- Fieldwork: **geolocation of monitoring plots (2021)** within the sites where the **concrete conservation measures** will be implemented; **measurements and assessment (2021, 2022)** of selected variables in 2 priority **forest habitat types**: HT 91E0* Alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior* in the project area Ličenca pri Poljčanah and HT 9180* *Tilio-Acerion* forests of slopes, screes and ravines in the project area Boč-Haloze-Donačka gora
- Purpose: **collecting** vegetation and forest stand structure **data** to compare the **conservation status** of habitat **before and after** implementation of **conservation measures**.
- Conducted by GIS and ZGS

Results:

- **Data for about 40 variables/indicators** of forest stand structure and vegetation (e.g., tree growth and development, plant species composition, vertical structure, dead wood amount, pressures and threats...) **before implementation** of conservation measures were **selected in 10 plots** in the project area **Boč-Haloze-Donačka gora** and in **3 plots** in the project area **Ličenca pri Poljčanah**.

D.1.1. Monitoring the effectiveness of project activities on selected species and habitat types in IP areas

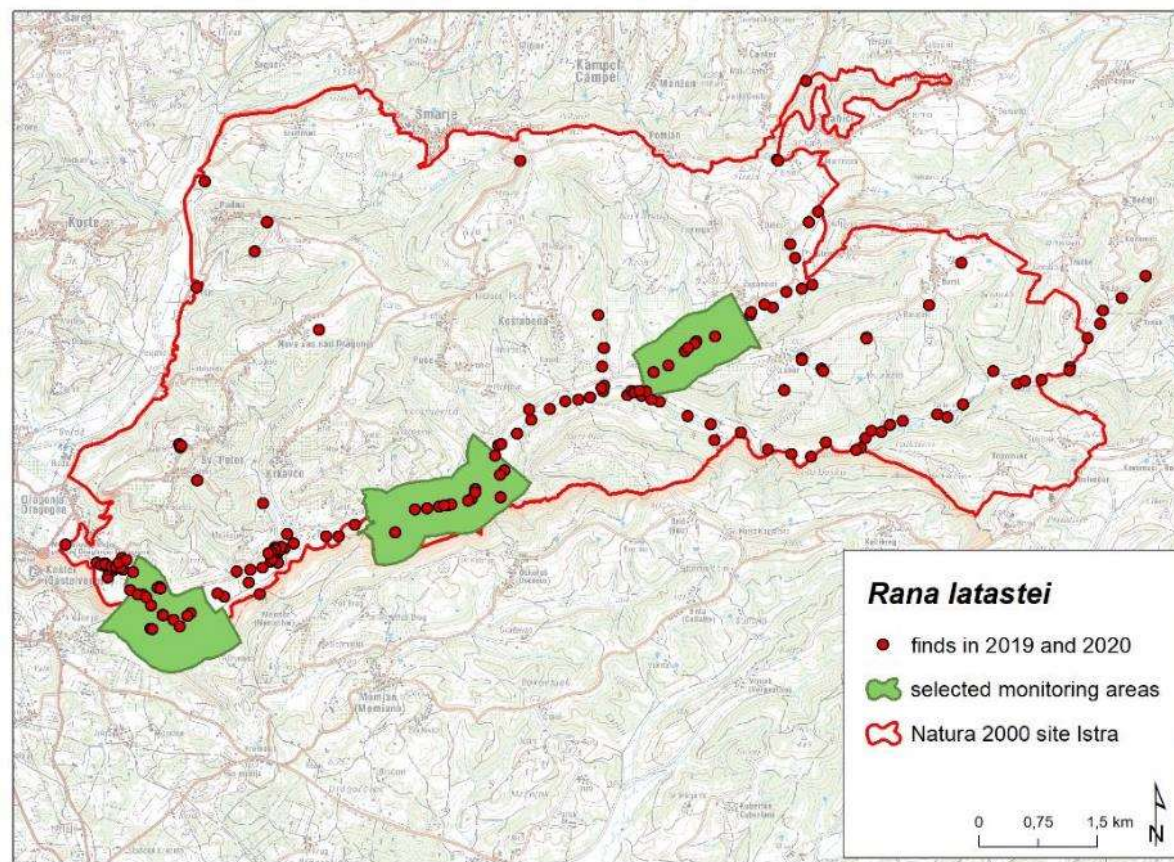
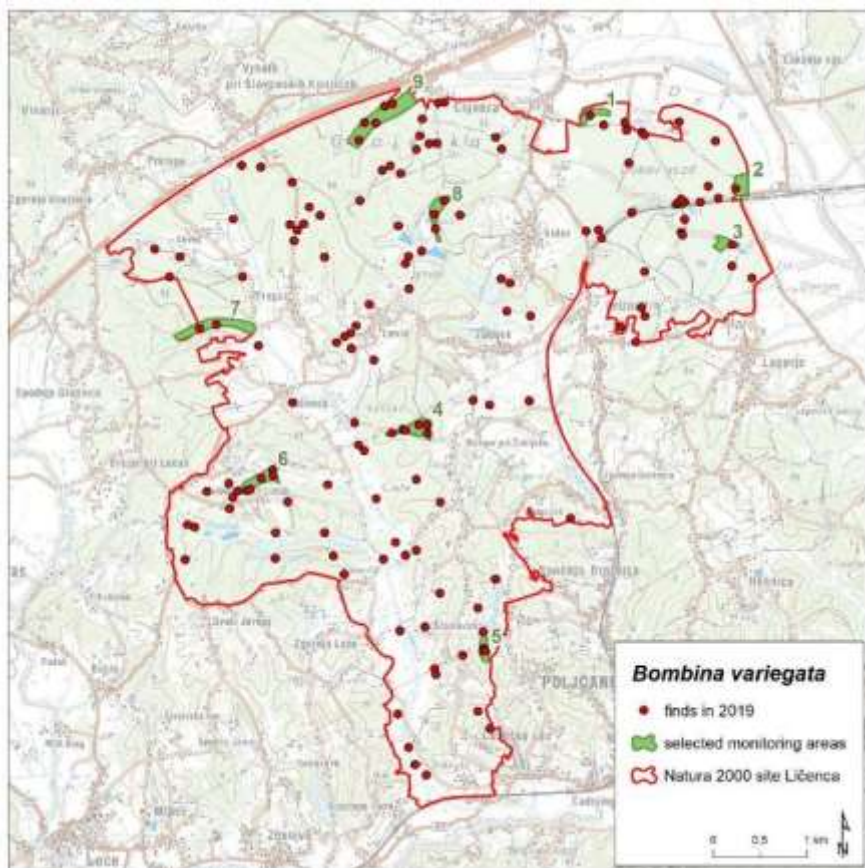
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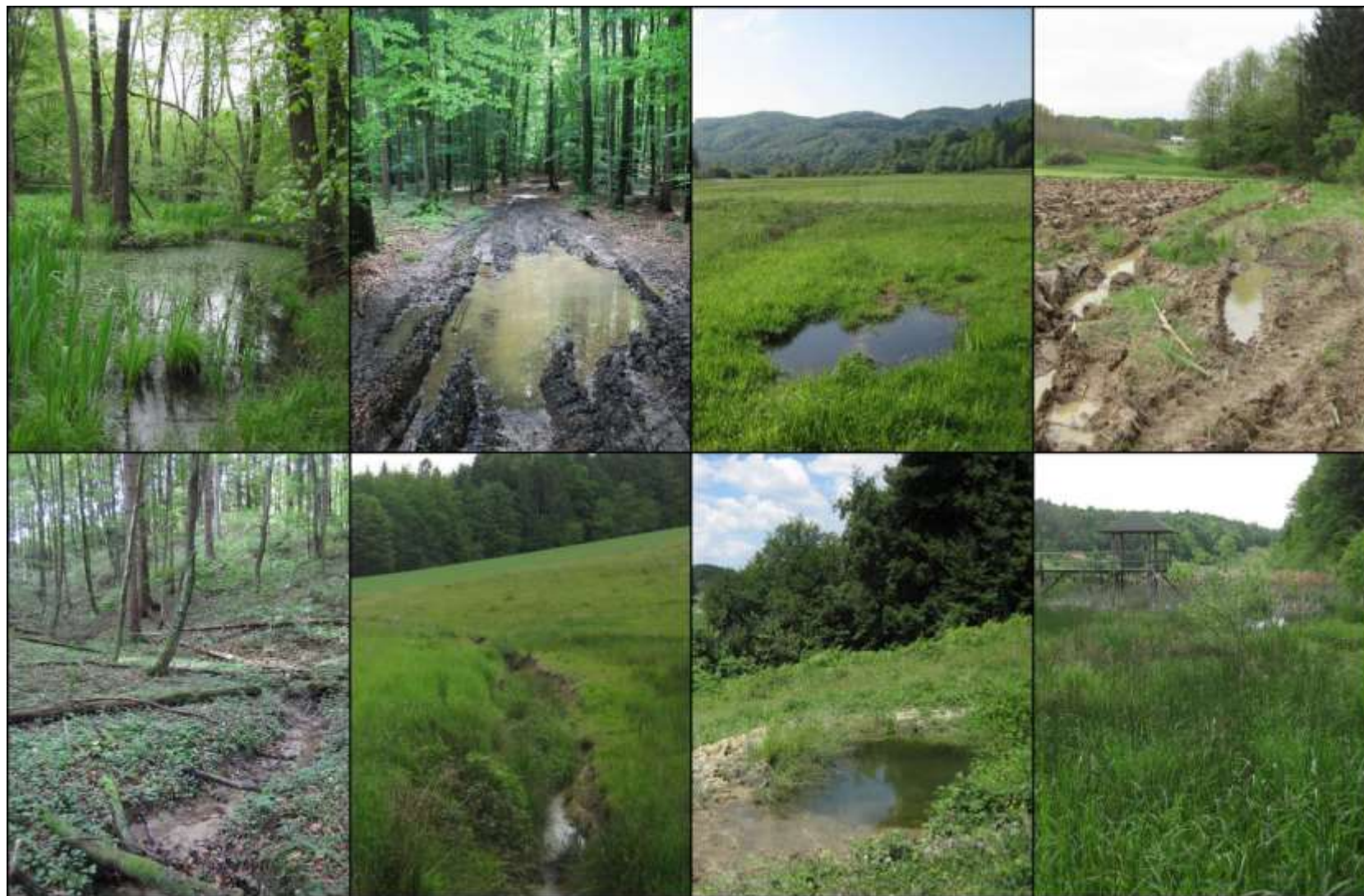
D.1 Monitoring of the impact of project actions on species and habitats

- Monitoring started:
- Natura 2000 Slovenska Istra: ***Rana latastei*, *Triturus carnifex*, *Bombina variegata*, *Eriogaster catax* (C7)**
Natura 2000 Ličenca pri Poljčanah: ***Bombina variegata*, *Leucorrhinia pectoralis* (C7)**
- Dravinja s pritoki, SI3000306: ***Ophiogomphus cecilia* (C7)**
- Method: same as A1 action
- 2020-2024: monitoring in selected subareas;
- 2024-2026: full monitoring repeated as in A1 action (species dependent)
- **Results: comparable with A1**

Selection of subareas



Selection of subareas



Population estimation: mark recapture method



- Chalanges: god timing to get comparable results:
- spawning time
- larval stage of *T. carnifex* on 1.7.2019 is different than 1.7.2021



D.1.1. Monitoring the effectiveness of project activities on selected species and habitat types in IP areas

Performed by UL

D.1.1 Analysis of the effectiveness of the measures: BUTTERFLIES & PLANTS

pilot area: Slovenska Istra

- ✓ 2021, 2022, ongoing: annual transect counts: 9 transects in Slovenska Istra



the Marsh Fritillary
(*Euphydryas aurinia*)



the False Ringlet
(*Coenonympha oedippus*)

pilot area: Travišča Štajerske



the Scarce Large Blue (*Phengaris teleius*)
the Dusky Large Blue (*P. nausithous*)

- ✓ Annual monitoring



the Greater Pasque flower
(*Pulsatilla grandis*)

pilot area: Kamniško Savinjske Alpe (KSA)



the Marsh Gladiolus
(*Gladiolus palustris*)

- ✓ Annual monitoring

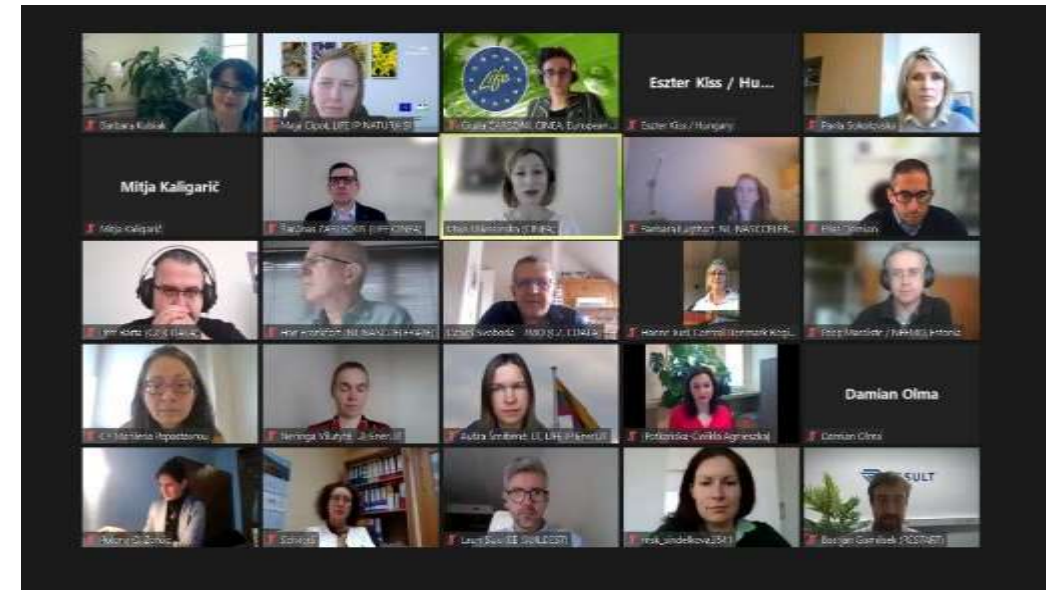
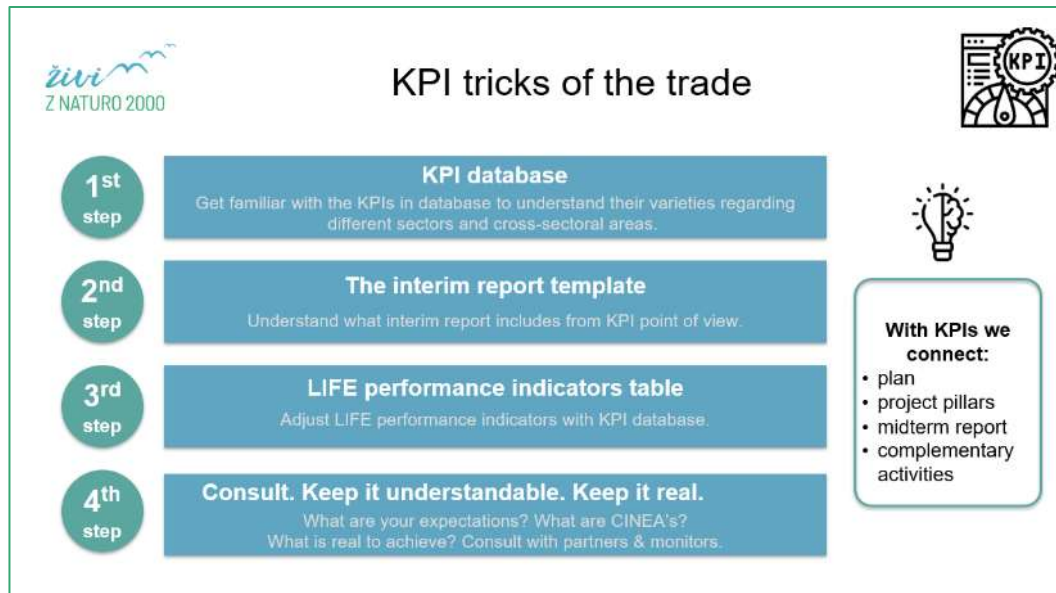


- ✓ Annual monitoring

the Marchesetti's Eyebright
(*Euphrasia marchesetti*)

D.2 SELECTION OF INDICATORS AND MONITORING PROTOCOLS

- ✓ Our KPI exercise recognized as best practice and presented in LIFE20 Integrated Projects - Welcome Meeting



D.3 ASSESSMENT OF PROJECT'S SOCIO-ECONOMIC IMPACTS

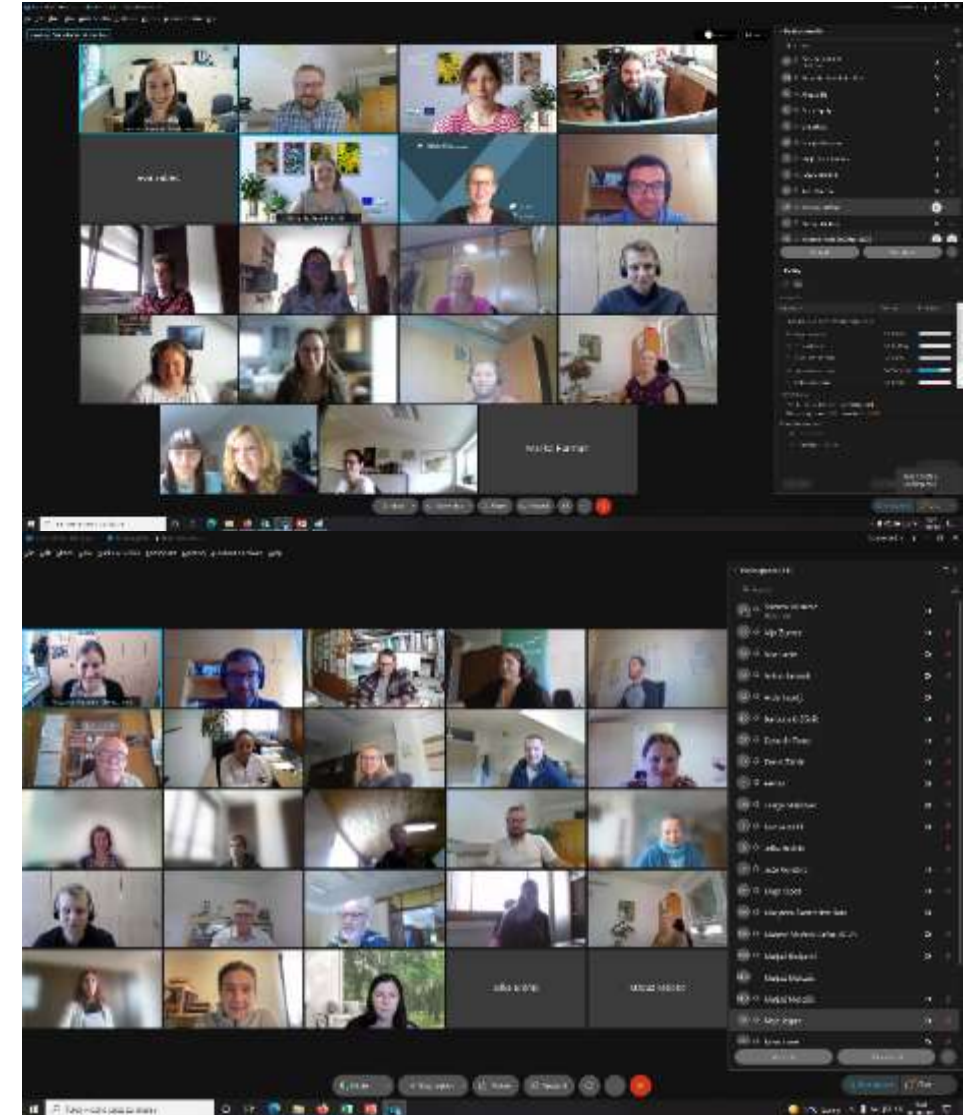
- ✓ The process of SE study is divided in two phases:
 1. Preparation of the set of indicators
 2. Implementation of the SE study based on the set of indicators
- ✓ We are in the selection procedure for the provider of the set of indicators.
- ✓ The set of indicators should be confirmed till January 2023.
- ✓ The selection procedure for the provider of the study should start in the 2nd half of 2025.

Milestone „Plan for assessment of socio-economic effects of the project“ reached!

D.4 ASSESSMENT OF PROJECT'S IMPACTS ON ECOSYSTEM FUNCTIONS

Action includes assessment of impact of concrete conservation action

- Baseline situation for ecosystem functions on IP areas identified – **in implementation**
- ✓ identification of ecosystem services present in project areas of concrete conservation actions **completed (6 online workshops)**
- ✓ cross-linking of identified present ecosystem services with final set of concrete conservation measures in pilot areas defined in Action plans (a.1) **is ongoing (6 online workshops + 2 more planned in autumn 2022 – Istra & forest species)**
- ✓ Identification of publicly available data for set of indicators **is in preparation.**



D.4 ASSESSMENT OF PROJECT'S IMPACTS ON ECOSYSTEM FUNCTIONS

Activities that still need to be performed:

Milestone **Baseline situation for ecosystem functions on IP areas**

- 2 workshops in cross-linking (Slovenska Istra & forest species) (by December 2022)
- Selection of indicators for selected ecosystem services and calculation of their baseline values for each Natura 2000 site on pilot areas (by December 2022)

Deliverable **Study of project's impact on the ecosystem functions** (by December 2026):

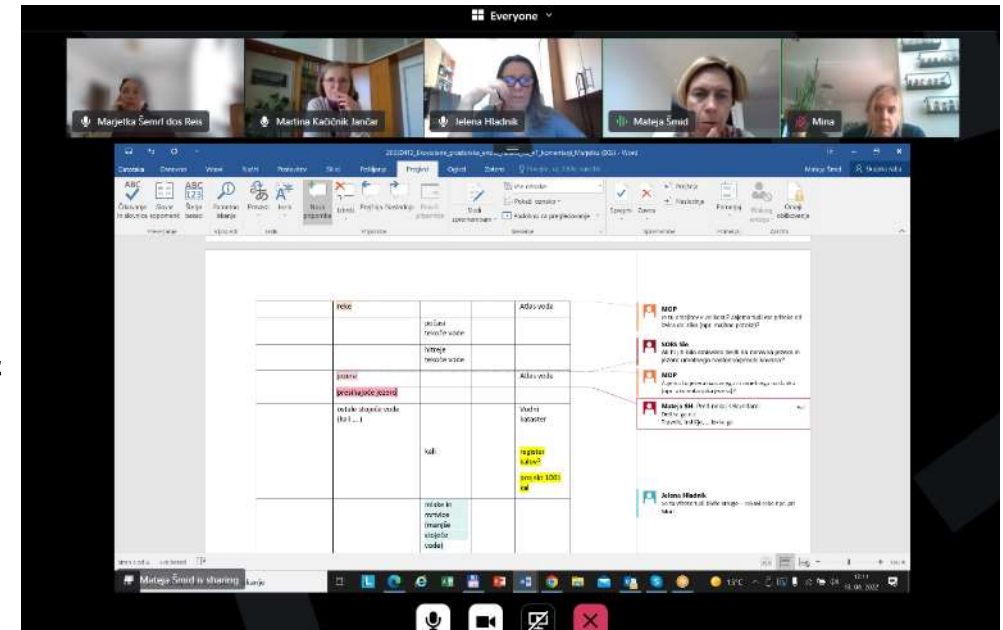
- Calculating values of selected indicators after the implementation of concrete measures
- Mapping of ecosystem services
- Preparation of the study

D.4 ASSESSMENT OF PROJECT'S IMPACTS ON ECOSYSTEM FUNCTIONS

Complementary project

Identification, evaluation and mapping of ecosystem services in valuable nature conservation areas (VNCA) in Slovenia – NatGuidES

- The main aim of the project is to establish a protocol for identification and mapping of ES in the VNCA.
- Project beneficiaries: ZRC SAZU, **GIS**, UL
- Type of the project: CRP project (Target research programmes)
- Financed by Slovenian Research Agency and Ministry of the Environment and Spatial Planning
- Project partners ZRSVN, MOP involved as key stakeholders and are present on workshops



F.1 PROJECT MANAGEMENT AND COORDINATION

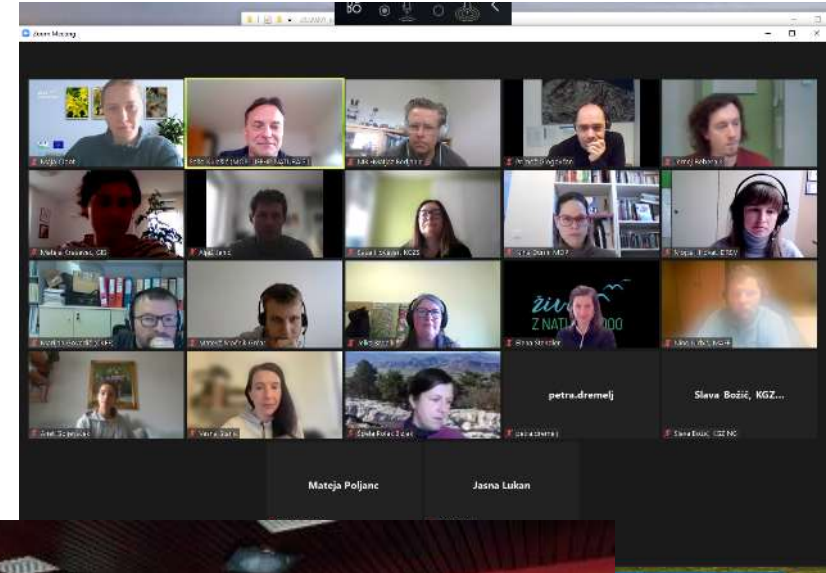
Activities performed in 2021/2022

- MOP as the coordinating beneficiary, responsible for the overall management of the IP and coordination with associated beneficiaries, is working closely with project administrators and coordinators in partner organizations (associated beneficiaries).
- Project management team cooperates on a daily basis.
- Amendments of cooperation agreements with partner organizations are expected to be signed until 19.11.2021.
- Partner meeting for the administrative and financial tasks took place on the online platform on 12.10.2021
- The first interim payment was made on 25.10.2021.
- **Transfers to partners were made on 19.11.2021.**

F.1 PROJECT MANAGEMENT AND CO-ORDINATION

Activities performed in 2022

- Partner meeting for the administrative and financial tasks (travel costs and payrolls) took place on the online platform on 1.2.2022.
- Partner meeting for the project progress and preparation for monitoring visit took place live and on the online platform on 14.4.2022.



F.2 AUDIT

Activities performed in 2021:

- Auditor's Certificate for the 1st interim report was issued on 24.3.2021.
- The Auditor performed agreed-upon audits of financial statements of MOP, ZRSVN, ZZRS, DRSV Štirna and NIB.
- The Auditor expressed exception for one category of costs for one of the partners and identified these costs as eligible at a subsequent review (communication with monitoring team on 8.11.2021).

Planned activities in 2022:

- Audit of financial statements of MOP, ZRSVN, ZZRS, DRSV, ZGS and CKFF will be performed for the period 1.1.2021 - 30.6.2022.
- The audit will begin on 16.8.2022.

F.2 AUDIT

Planned activities in 2022:

- CINEA auditor from Deloitte will perform the audit to assess the eligibility of the expenditure reported in the context of the interim payment of the project and will focus on MOP, ZRSVN, ZZRS, DRSV and NIB.
- The agreed date of the start of the audit is 22.8.2022.
- MOP already sent to the auditor the requested documents and data on 30.6.2022 (preliminary phase).

Life, the universe and everything

You can't change the past relations, but you can create environment for better cooperation.

Project is strong as its weakest link.

Help the weakest link to be stronger.

Each sector has its own language.

Respect the differences. Diversity enriches.

Don't panic.

Be flexible. Crisis is an opportunity.
Rely on your monitor.

Each project has its own specifics.

There are no universal solutions.
There are problems with all solutions.



10 LIFE hacks for LIFE-IP projects



Communication strategy is a process.

Communication is not about a leaflet or press release.

Remind yourself of a big picture on daily basis.

Daily issues look small in a yearly overview.

You are managing a big machine.

Small parts of mechanism can move bigger wheels.

Participatory approach is a starting point for creating common solutions.



Thank you!

For further Q&A don't hesitate to send email to:
life-natura.mop@gov.si or maja.cipot@gov.si

<http://www.natura2000.si/>



@Natura2000.si