

REPUBLIC OF SLOVENIA MINISTRY OF AGRICULTURE, FORESTRY AND FOOD

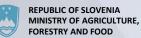
Challenges related to landscape features in the Slovenian CAP Strategic plan

1st meeting of the ENRD TG on Landscape Features & Biodiversity

13. October 2022 Jure Čuš

> Ministry of Agriculture, Forestry and Food Directorate for Agriculture

Current state of LF in Slovenia



- Biodiversity in Slovenia is characterized by its richness reflected in above the average size of Natura 2000 network (cca 38%) and high
- above the average size of Natura 2000 network (cca 38%) and high nature value farming as well as important landscape diversity.
- Land structure is very fragmented.
- Almost 60% of the area covered by forest.
- Only about 33% agricultural land (cca 60% grasslands) about 880.000 reference parcels in our LPIS.
- Slovenia has a huge variety of landscape features, mostly on grassland, and most of the grassland is close to the forest boundary.
- Slovenia activated a majority of possible landscape features in the context of cross-compliance GAEC rules, but did not activate any landscape features for the purpose of EFA obligation under greening.

Agricultural land use %	No. of rectangles	% of SI territory	
0 -10	613	20,32	
10-20	553	18,34	
20-30	556	18,44	
30-40	416	13,79	
40-50	326	10,81	
50-60	239	7,92	
60-70	173	5,74	
70-80	95	3,15	
80-90	40	1,33	
90-100	5	0,17	

LAND USE-33% Agricultural land 670.700 ha



Table 1: percentage of agricultural use within 6,75 km2 rectangles

Current state of LF in Slovenia



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Small Woody Features Copernicus Land Monitoring Service project for 2018 and The Land Use Database

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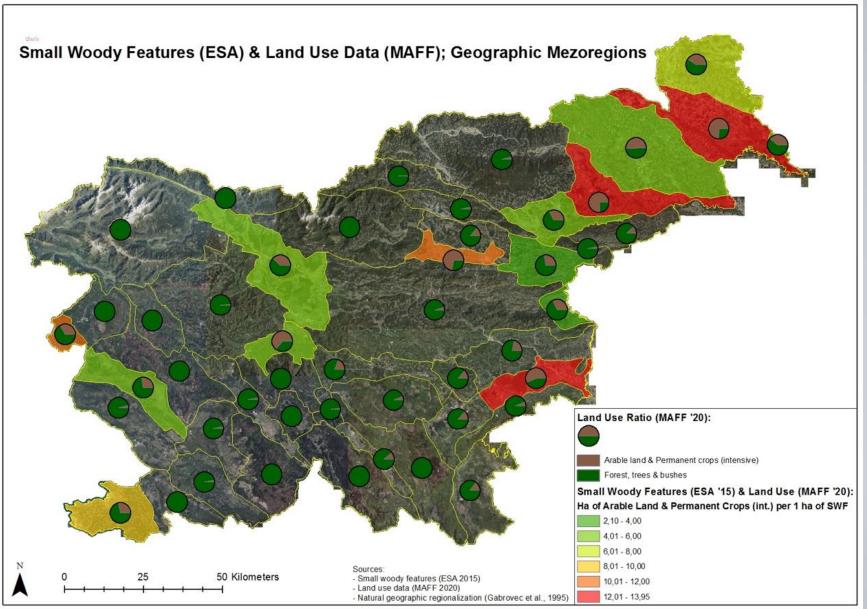
- 'Additional woody features' --> 23.600 ha
- 'Linear structures of trees, hedges, bushes and scrub' --> 25 659 ha
- 'Patchy structures of trees, hedges, bushes and scrub' --> 1 600 ha

HRL 2018 look & feel verification report for Small Woody Features -The verification report for the Small Woody Features project shows the incompleteness of this data coverage, but also that a large number of small woody features are present in Slovenia.

name	code	ha
ctures of trees, hedges, bushes and scrub	<u>1100 – Arable land</u>	1.461
ctures of trees, hedges, bushes and scrub	<u> 1160 – Hop field</u>	6
ctures of trees, hedges, bushes and scrub	<u>1180 – Other permanent crop on arable land</u>	10
ctures of trees, hedges, bushes and scrub	<u>1190 – Greenhouse</u>	0
ctures of trees, hedges, bushes and scrub	<u>1211 – Vineyard</u>	243
ctures of trees, hedges, bushes and scrub	<u> 1212 – Nursery</u>	0
ctures of trees, hedges, bushes and scrub	<u>1221 – Intensive orchard</u>	73
ctures of trees, hedges, bushes and scrub	<u>1222 – Extensive orchard</u>	2.571
ctures of trees, hedges, bushes and scrub	<u>1230 – Olive grove</u>	50
ctures of trees, hedges, bushes and scrub	<u> 1240 – Other permanent crops</u>	16
ctures of trees, hedges, bushes and scrub	1300 – Permanent grassland	7.399
ctures of trees, hedges, bushes and scrub	<u>1321 – Swampy grassland</u>	154
ctures of trees, hedges, bushes and scrub	<u> 1410 – Overgrown agricultural area</u>	1.780
ctures of trees, hedges, bushes and scrub	1420 – Forest plantation	12
ctures of trees, hedges, bushes and scrub	1500 – Trees and shrubs	5.119
ctures of trees, hedges, bushes and scrub	<u> 1600 – Uncultivated agricultural area</u>	310
ctures of trees, hedges, bushes and scrub	1800 – Forest trees on agricultural land	340
ctures of trees, hedges, bushes and scrub	<u> 2000 – Forest</u>	3.815
ctures of trees, hedges, bushes and scrub	3000 – Built-up area and related surface	1.630
ctures of trees, hedges, bushes and scrub	<u>4100 – Swamp</u>	1
ctures of trees, hedges, bushes and scrub	<u>4210 – Reed</u>	3
ctures of trees, hedges, bushes and scrub	<u>4220 – Other marshy area</u>	92
ctures of trees, hedges, bushes and scrub	5000 – Dried open area with special vegetation	104
ctures of trees, hedges, bushes and scrub	6000 – Area with little or no vegetation	10
ctures of trees, hedges, bushes and scrub	<u>7000 – Water</u>	460
		25.659

Current state of LF in Slovenia

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Results of the project "Inventorization of LF with REPUBLIC OF SLOVENIA MINISTRY OF AGRICULTURE, FORESTRY AND FOOD

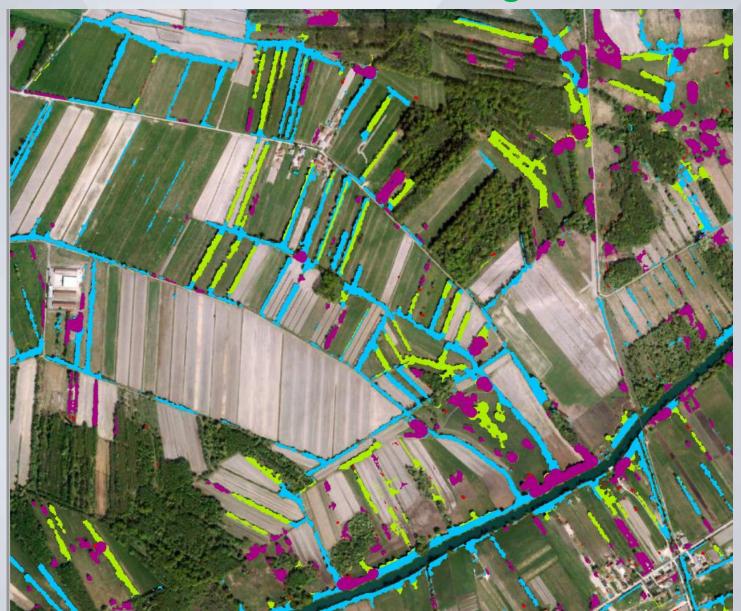
- Iventorization of hedgerows; solitaire trees and bushes; group of trees and bushes; woody riparian buffer strips and overgrowth
- The resulting layer not "perfect"

Landscape feature	Area (hectares)	
solitaire trees and bushes	4.647	
hedgerows	22.976	
group of trees and bushes	11.545	
woody riparian buffer strips	5.258	
overgrowth	9.939	
The h/L	54.365	





Results of the project "Inventorization of LF with REPUBLIC OF SLOVENIA MINISTRY OF AGRICULTURE, FORESTRY AND FOOD

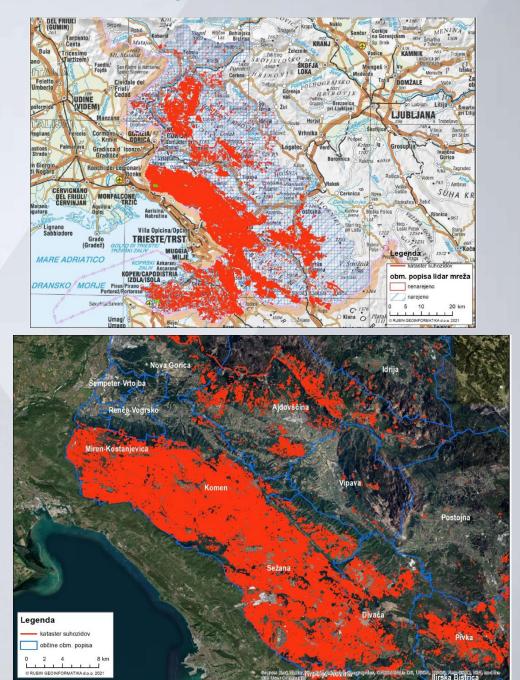


Inventorization of dry stone walls

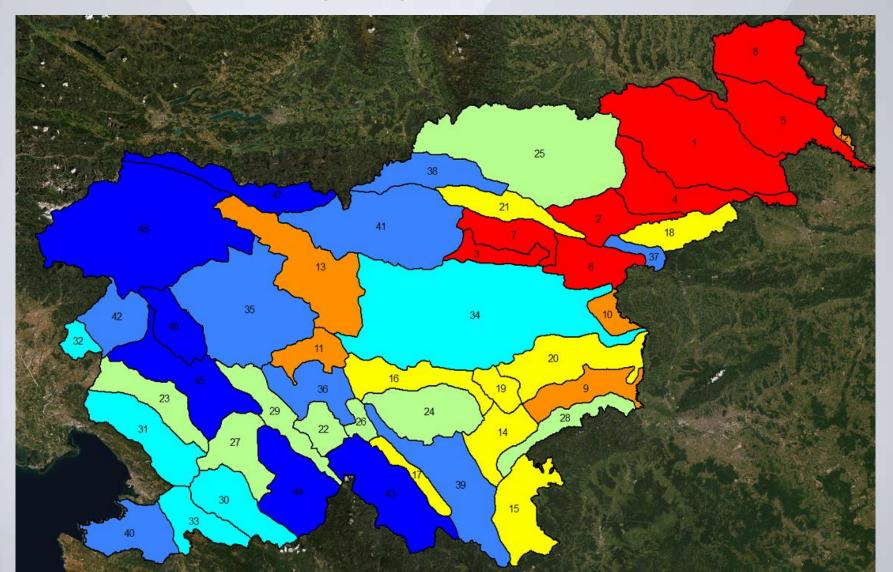


- Interreg project "SUSTAINABLE TOURISM STRATEGIES TO CONSERVE AND VALORISE THE MEDITERRANEAN COASTAL AND MARITIME NAUTRAL HERITAGE"
- Mapped 3.651 km2 of Slovenia.
- 11.725 km of dry stone walls.
- On average 3,21 km of dry stone walls per 1 km2!

		Actua	l use	Agricultural land (GERK)		
RABA_ID	km		ha	km	ha	
	1100	81	8	43	4	
	1131/		/	12	1	
	1180	1	0	1	0	
	1211	96	10	53	5	
	1221	14	1	10	1	
	1222	138	14	26	3	
	1230	265	27	127	13	
	1300	2141	216	850	86	
	1320/		/	296	30	
	1410	613	62	/	/	
	1411/		/	4	0	
	1500	1568	157	/	/	
	1600	153	15	/	/	
	1610/		/	4	0	
	1800	379	38	/	/	
	2000	5996	603	/	/	
	3000	259	27	/	/	
	5000	10	1	/	/	
	6000	1	0	/	/	
	7000	1	0	/	/	
	SUM	11716	1179	1426	143	



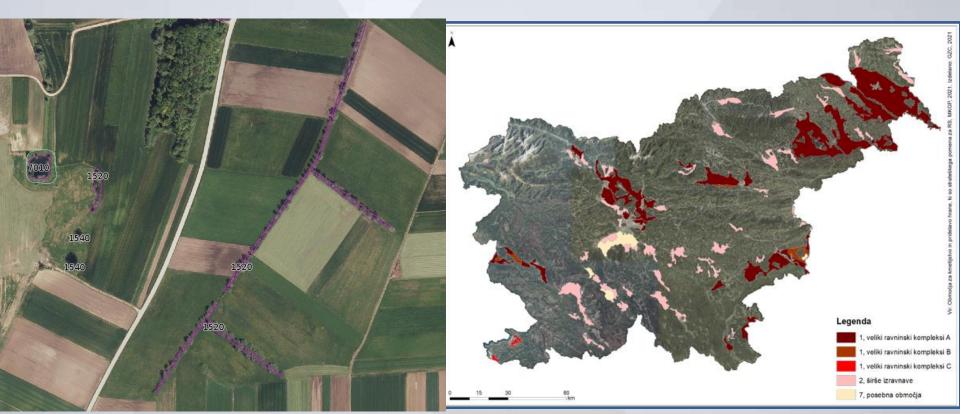
Targeted research project "Landscape REPUBLIC OF SLOVENIA MINISTRY OF AGRICULTURE, heterogeneity and the forthcoming agricultural policy measures in Slovenia"





Preparation of an initial spatial layer of landscape features in selected areas

- Inventorization of: hedgerows; solitaire trees and bushes; group of trees and bushes; trees in line; woody riparian buffer strips; small water features and local wetlands.
- Main sources Digital Relief Model, Digital Orthophotos and The Land Use Database.
- On most problematic areas 2.751 km2!



LF in the Slovenian CAP Strategic plan



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SWOT analysis - Weakness:

loss of landscape features (hedgerows, group of trees, solitary trees,...) and mosaics of the agricultural landscape in some areas due to intensification of agricultural use on one hand and abandonment of traditional management systems on other.

Identification of needs:

- Preservation or improvement of biodiversity of habitats and species in agricultural landscapes, especially in Natura 2000 sites;
- Preservation of agricultural landscapes and landscape features;
- Maintaining the pollination ecosystem service by improving the habitat quality for wild pollinators;

Definitions and conditions to be provided in SP (article 4):

Appropriate definition of "permanent grassland" and "'eligible hectare" – it includes landscape features!

Conditionality:

 GAEC 8 - Minimum share of agricultural area devoted to non-productive areas or features and Retention of landscape features.

Article 70 (Environmental, climate-related and other management commitments):

Agri-environment-climate payments (Preservation of hedgerows; High-trunk meadow orchards; Hummocky meadows;...)

Article 72 (Area-specific disadvantages resulting from certain mandatory requirements):

Natura 2000 payments (in certain areas)

Article 73 (Investments):

- Non-productive investments in the conservation of meadow orchards (installation or renovation of meadow orchards, hunting perches, nesting boxes, hotels for wild pollinators)
 Non productive investments in the arrangement of
 - hedgerows, dry stone walls and other landscape features

Article 77 (Cooperation):

EIP projects

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• Implementation of measures from protected area management plans

Article 78 (Knowledge exchange and dissemination of information)

THANK YOU FOR YOUR ATTENTION!