

Izrada *Land use* sloja RH za 2020. godinu

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Radionica (Tip 1) - 5. rujna 2023. godine - hotel Lav, Vukovar



REPUBLIKA HRVATSKA
Ministarstvo gospodarstva
i održivog razvoja



AGENCIJA ZA
PLAĆANJA U
POLJOPRIVREDI,
RIBARSTVU I
RURALNOM
RAZVOJU

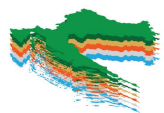


REPUBLIKA HRVATSKA
Državna geodetska uprava



FOND ZA ZAŠTITU OKOLIŠA I
ENERGETSKU UČINKOVITOST

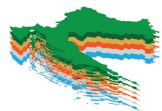




Izrada CROLIS sloja *korištenja zemljišta* (LU, land-use)

1. Prikupljanje **nacionalnih LU podataka** od ovlaštenih institucija
2. **Rasterizacija** vektorskih podataka (vector - > raster)
3. **Spajanje** pojedinačnih rastera u jedan zajednički raster za cijelu Hrvatsku
 - Po prioritetima, 17 LU slojeva (prema EEA metodologiji)

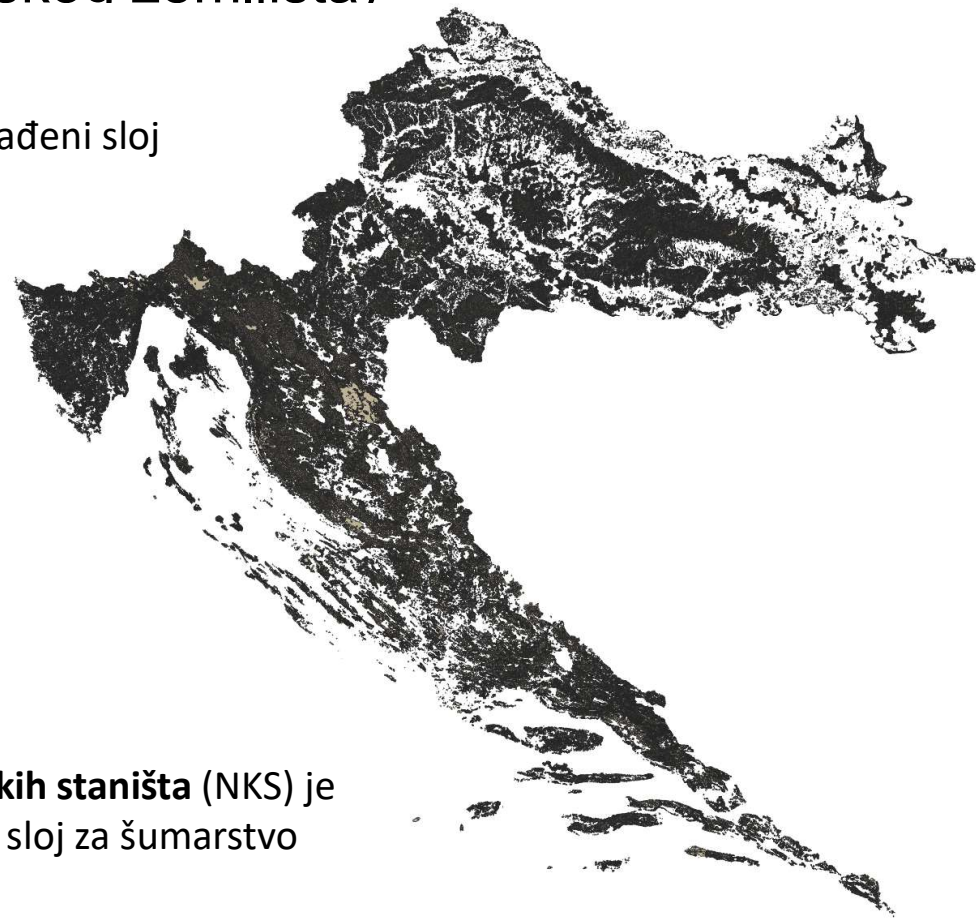
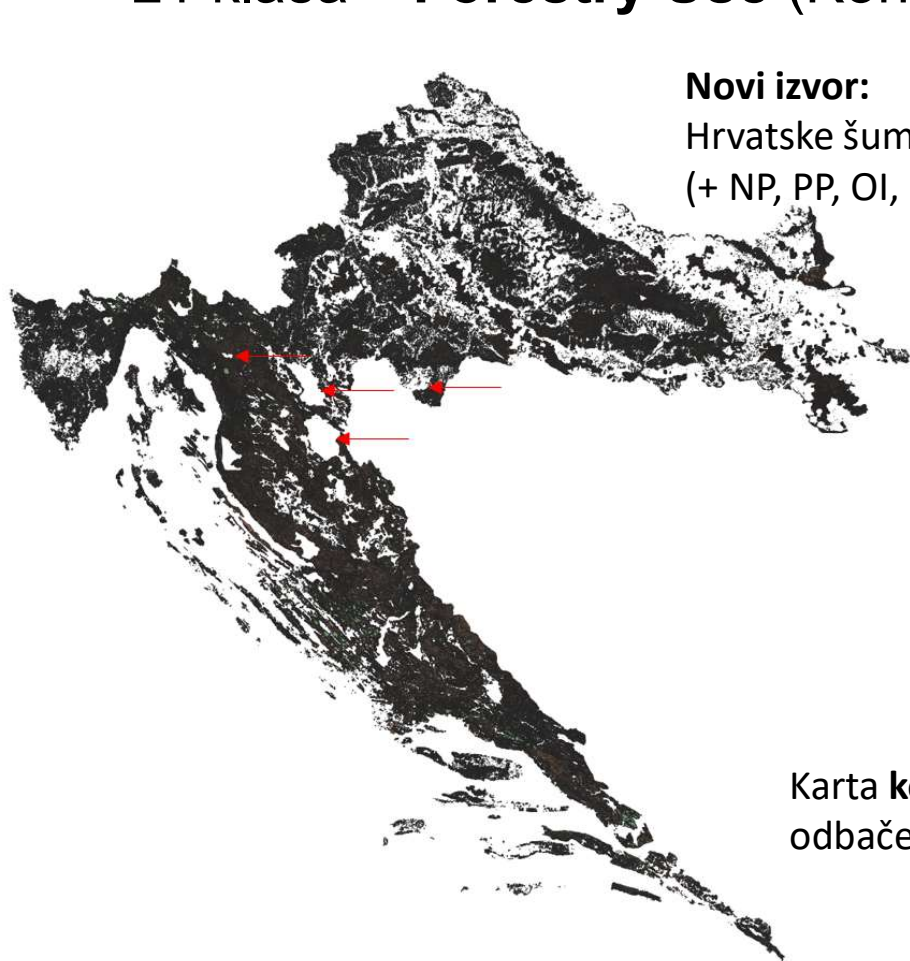




FAZA 1.

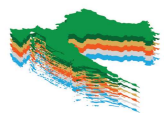
L1 klasa – **Forestry Use** (Korištenje šumskog zemljišta)**Novi izvor:**

Hrvatske šume d.o.o. - nadograđeni sloj
(+ NP, PP, OI, izbačen NKS)



Karta **kopnenih nešumskih staništa** (NKS) je
odbačen kao izvor za LU sloj za šumarstvo





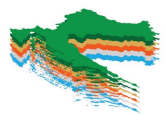
L2 klasa - **Arable Use** (Korištenje obradivog zemljišta)

- **Izvor:** Ministarstvo poljoprivrede (Arkod + podaci Min. polj.)
- Kategorija: **obradivo zemljište** (arable use)
 - Jednogodišnji usjevi



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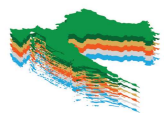
L2 klasa – **Perennial Use** (Korištenje trajnih nasada)

- **Izvor:** Ministarstvo poljoprivrede (Arkod + podaci Min. polj.)
 - Kategorije: voćnjaci, vinogradi, maslinici



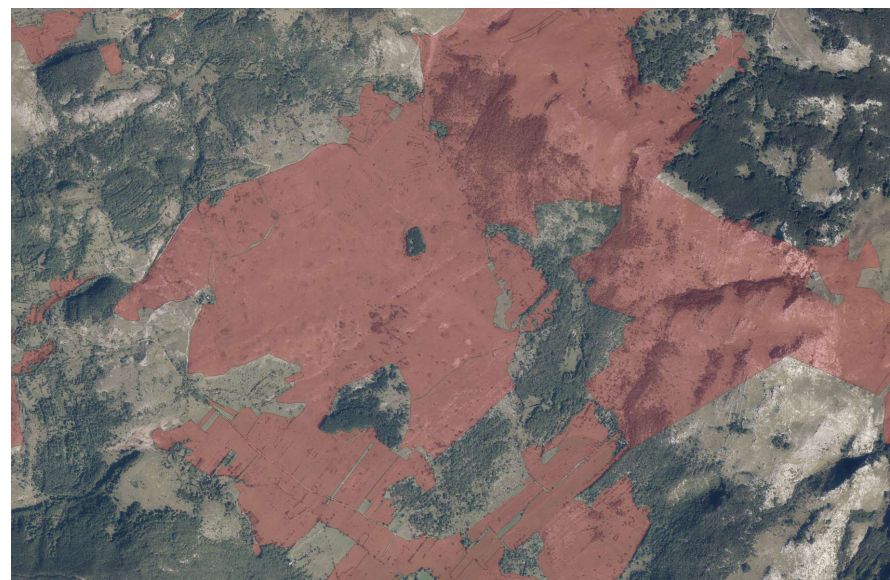
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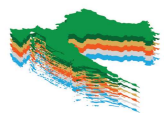
L1 klasa – **Grassland Use** (Korištenje zemljišta za travnjake)

- **Izvor:** Ministarstvo poljoprivrede (Arkod + podaci Min. polj.)
 - Kategorije: livade, pašnjaci – uzete is LFA projekta za Grassland Use



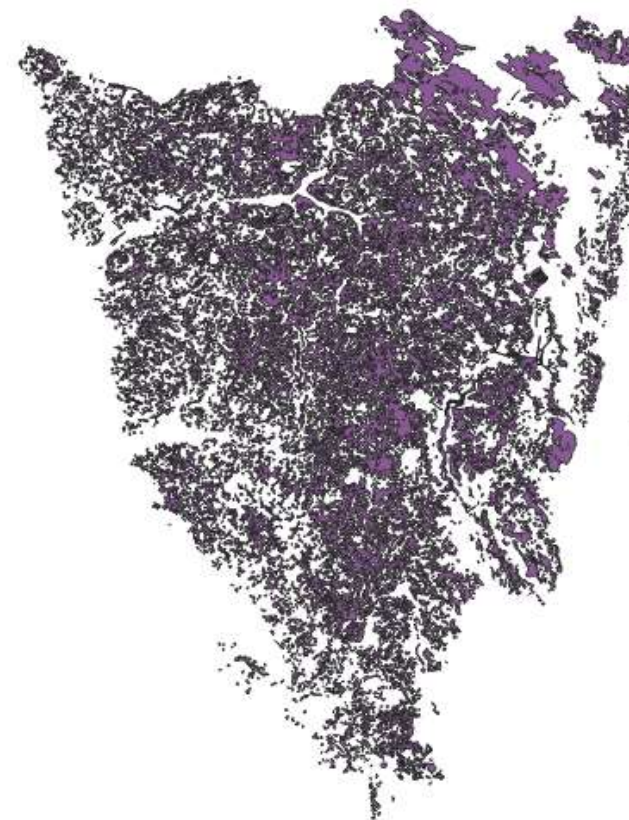
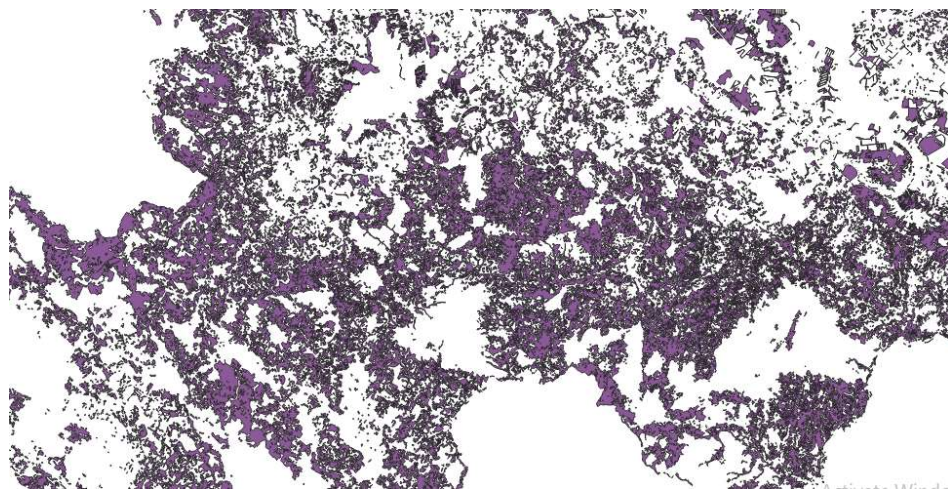
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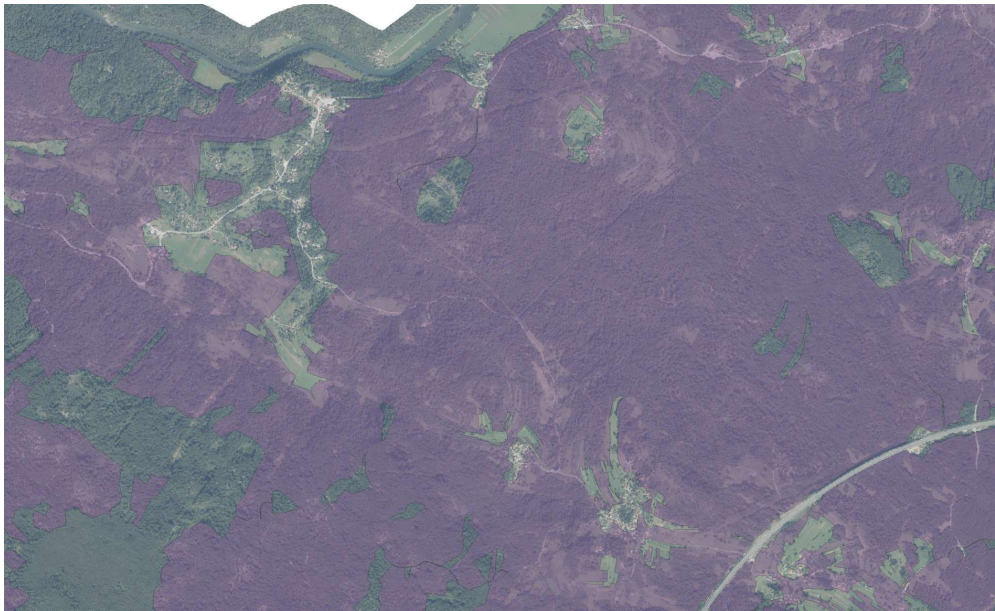
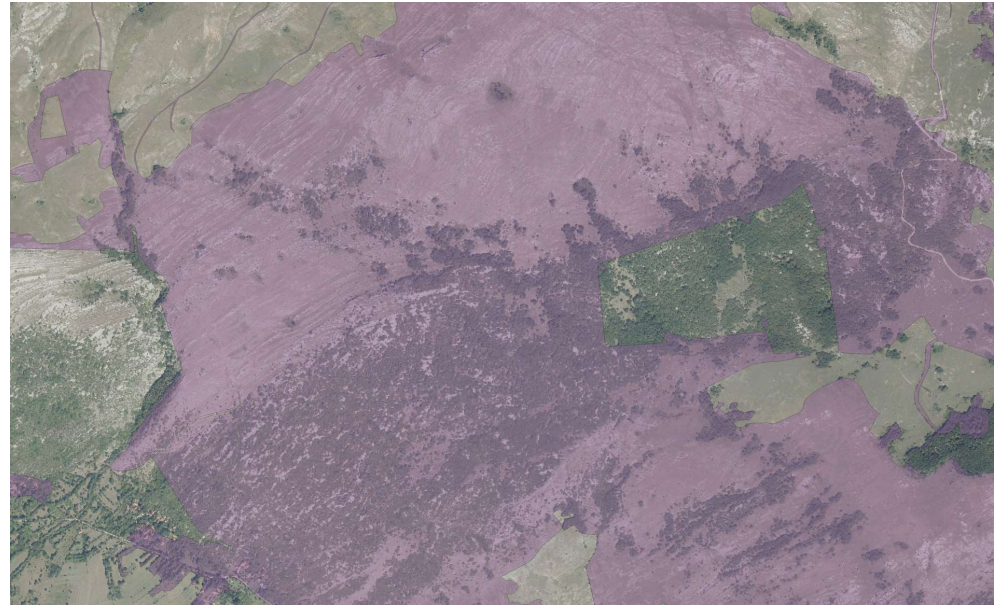
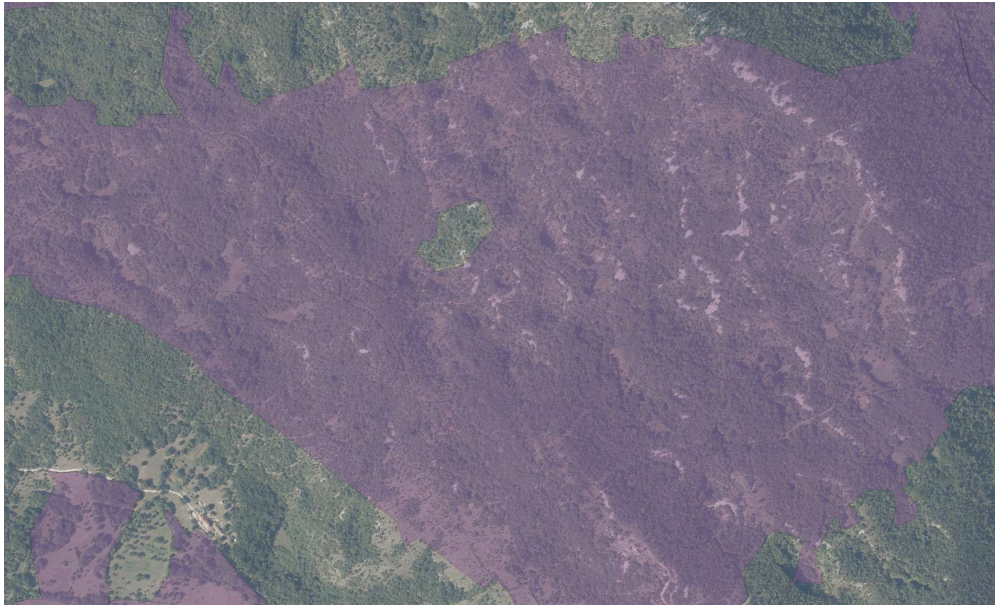


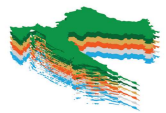


L1 klasa – **Grassland Use** (Korištenje zemljišta za travnjake)

- **Novi izvor:** Ministarstvo poljoprivrede (LFA project)
- Kategorija: **nekorišteno** (unused)
- Dodano u klasu korištenja travnjaka
 - Klasa **visokog prioriteta** (velike površine)
 - Na temelju katastra (označeno kao polj. zemljište -> napušteno)







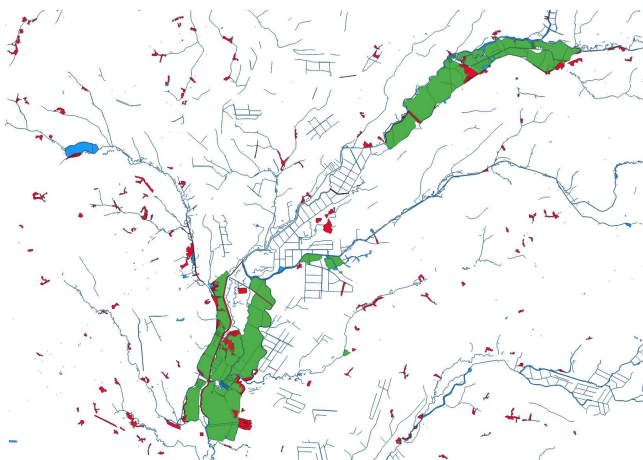
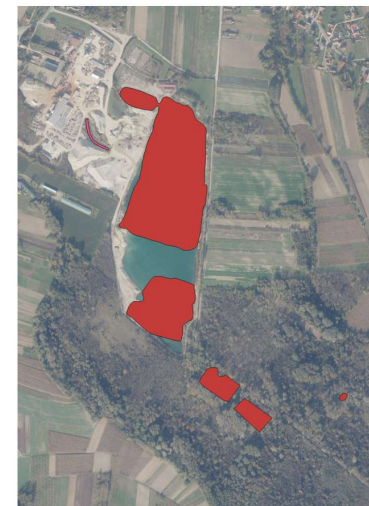
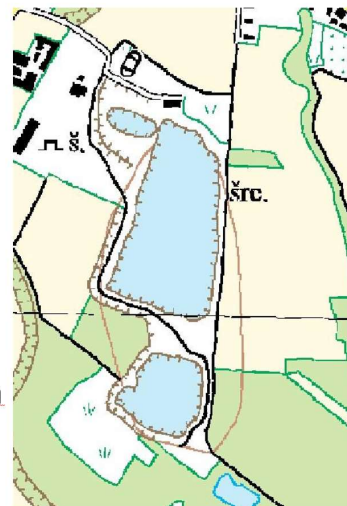
L1 Sloj korištenja zemljišta – Water Use

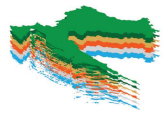
- Izvor: Hrvatske vode (TTB)



Wetland Use
Aquaculture use
Other water Use

Godina
izvornika
1996

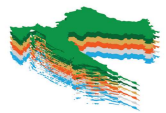




L2 klasa korištenja - **Promet i logistika** (Transport i Logistic Use)

- **Novi izvor:** Hrvatske autoceste





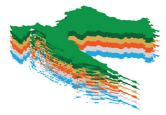
L2 klasa korištenja - **Promet i logistika**

- **Izvor:** Hrvatske željeznice
- *Buffer* dodan na liniju



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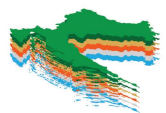




L2 klasa - **Services Use**

- **Novi izvor:** Hrvatske autoceste
 - (dodano na TTB)

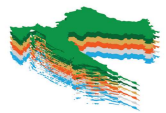




FAZA 2. **Rasterizacija** vektorskih podataka

Vektorski sloj  Raster 10 m





FAZA 3.

Spajanje pojedinačnih rastera u jedan **zajednički raster** za cijelu državu

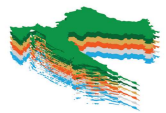
- Po prioritetima

Priority	LU layer
1	Forestry Use
2	Arable Use
3	Grassland Use
4	Permanent crop Use
6	Greenhouse Use
7	Other agriculture Use
8	Wetland Use
9	Aquaculture use
10	Other water Use
11	Residential Use
12	Industrial Use
13	Service Use
14	Transport & Logistic Use
15	Utilities Use
16	Mining and quarrying Use
17	Other no economic Use

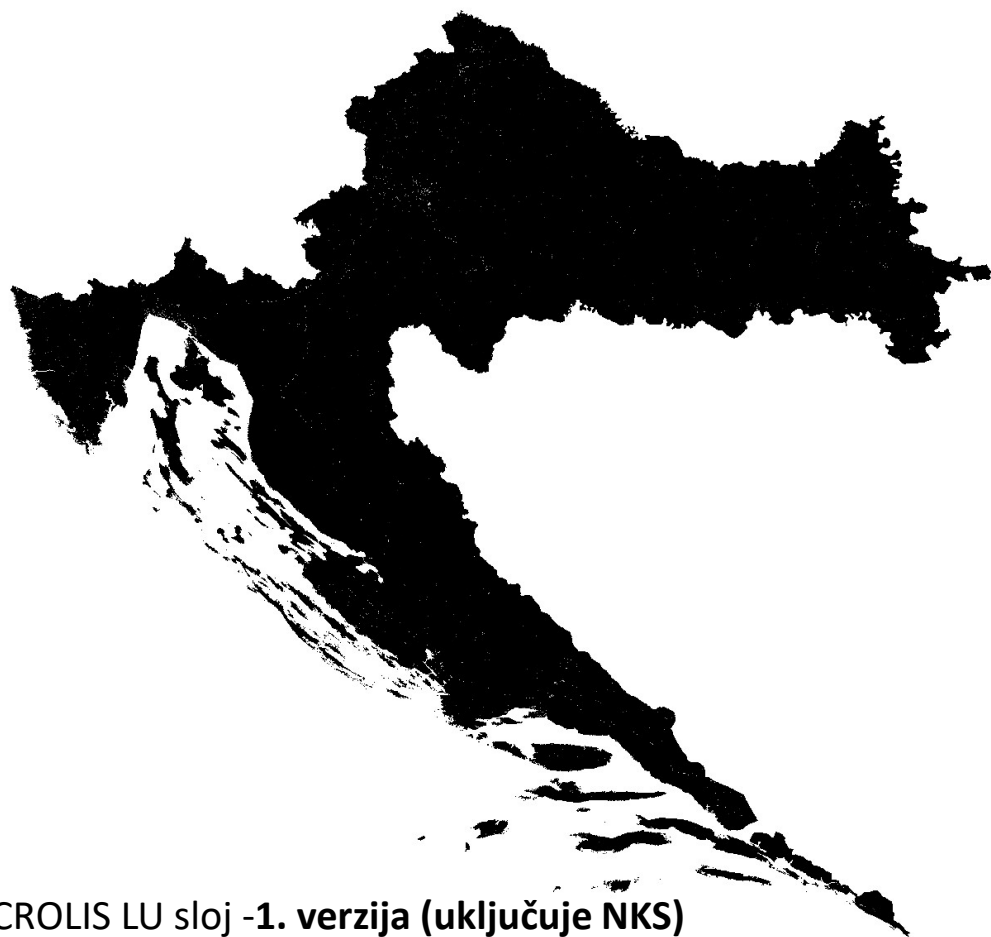


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Popunjavanje praznina (engl. *gap filling*)

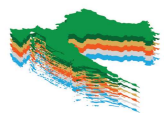


CROLIS LU sloj -1. verzija (uključuje NKS)



CROLIS LU sloj – trenutna verzija



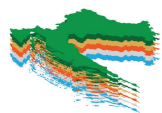


Popunjavanje praznina

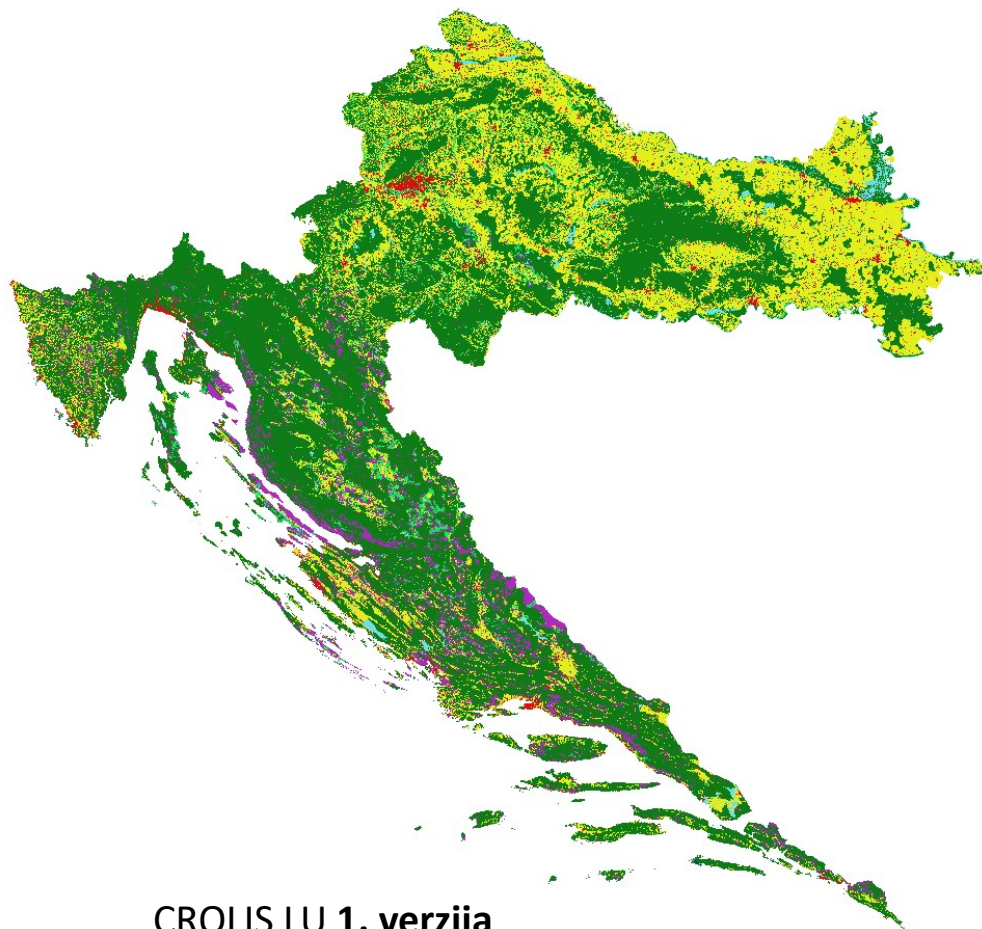
- Karta kopnenih nešumskih staništa (NKS) – grupirana po klasama L2
- Urbana uporaba: CLC 2018 – grupirano po klasama L2
- Udio površine u verziji 1 sloja LU: 0,55%
- Udio površine u trenutnoj verziji sloja LU: 3,5 %

	Popunjene praznine po klasama u 1. verziji (ha)	Popunjene praznine po klasama u trenutnoj verziji (ha)
Forestry Use	3,138	124,526
Arable Use	1,300	44,800
Grassland Use	1,087	12,435
Permanent crop Use	329	5,326
Greenhouse Use		
Other agriculture Use	7,574	103,085
Wetland Use	460	1,018
Aquaculture use		
Other water Use	1,010	3,734
Residential Use	8,543	47,260
Industrial Use	2,269	4,601
Service Use		
Transport & Logistic Use	2,902	3,638
Utilities Use	1,182	2,263
Mining and quarrying Use	947	927
Other/no economic Use	98	23,364
Total	30,840	376,139





LEVEL 1 - trenutni sloj

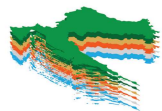


CROLIS LU 1. verzija



CROLIS LU trenutna verzija





LEVEL 2 - trenutni sloj

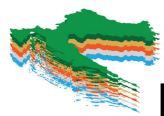


CROLIS LU 1. verzija



CROLIS LU trenutna verzija

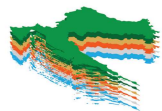




LEVEL 1 cijeli sloj – trenutna verzija

	CROLIS LU sloj - 1. verzija (ha)	CROLIS LU sloj – trenutna verzija (ha)	NIR 2021 (ha)
Forestry Use	3,244,933	2,639,977	2,401,873
Agriculture Use	1,603,532 (ARKOD+NKS+TTB)	1,427,809 (ARKOD- Min.polj.)	1,521,932
Permanent Crop Use	143,397	148,626	121,462
Grassland Use	208,514 (ARKOD+NKS)	1,090,188 (ARKOD+Min.polj.)	1,154,222
Wetland Use	115,700	109,933	75,356
Urban Use	161,583	194,011	287,956
No economic Use	334,907	206,414	218,062

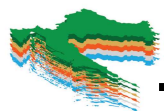




LEVEL 2 cijeli sloj – trenutna verzija

	CROLIS LU sloj - 1. verzija (ha)	CROLIS LU sloj - trenutna verzija (ha)	NIR 2021 (ha)
Forestry Use	3,244,933	2,639,977	
Arable Use	1,400,288	1,248,187	1,400,470
Grassland Use	208,514	1,090,188	
Permanent crop Use	143,397	148,626	121,462
Greenhouse Use	220	547	
Other agriculture Use	59,626	30,449	
Wetland Use	38,989	26,626	
Aquaculture use	4,805	9,558	
Other water Use	71,905	73,749	
Residential Use	111,816	129,082	
Industrial Use	10,371	11,939	
Service Use	8,436	10,735	
Transport & Logistic Use	25,215	36,333	
Utilities Use	1,676	1,676	
Mining and quarrying Use	4,069	4,246	
Other/no economic Use	334,907	206,414	



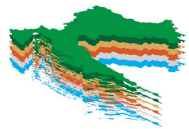


Zaključak i daljnji izazovi

- Poboljšanje LU 2020 s podacima **ARKOD+** (još uvijek u izradi)
 - jednogodišnji usjevi
 - višegodišnji nasadi
 - voćnjaci
 - vinogradi
 - maslinici



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Hvala na pažnji!

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