

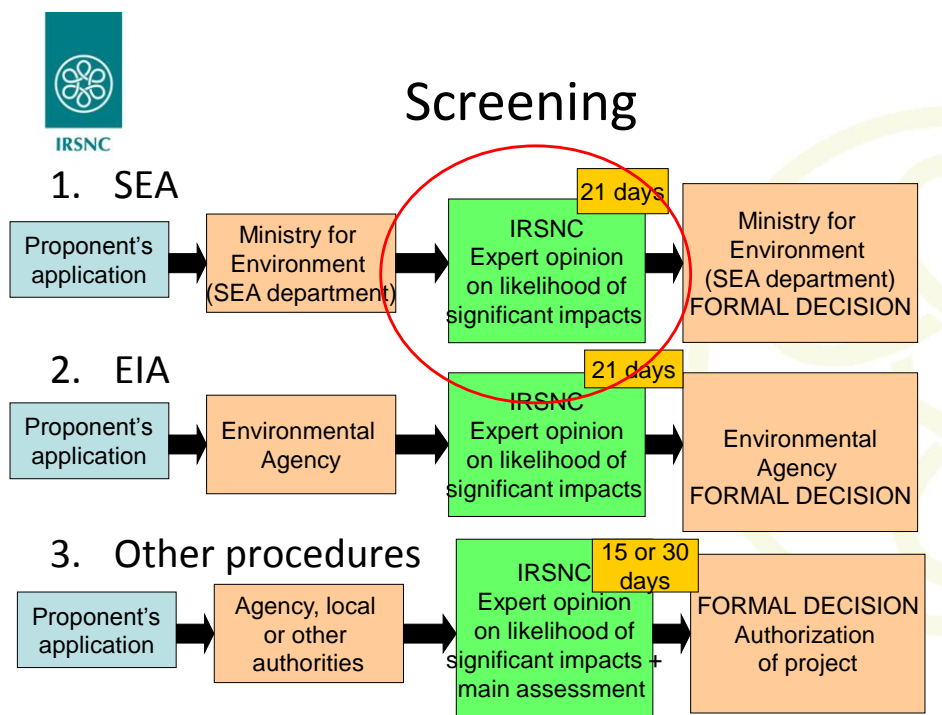


INSTITUTE OF THE REPUBLIC OF SLOVENIA
FOR NATURE CONSERVATION

Experiences with screening in Slovenia

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Rules on the assessment of acceptability of impacts caused by the execution of plans and activities affecting nature in protected areas

1. Plans with likely significant impact → **MAIN ASSESSMENT**
 - Significant impact alone or in combination
 - Changes of land use (Annex 1)
 - Including projects from Annex 2
 - Plans for use of natural resources
 - Plans as a basis for execution plans
2. Plans without significant impact → **NO ASSESSMENT**
 - Changes of landuse outside of N2k sites and indirect impacts can't reach target features
 - Changes of landuse within N2k, but outside of habitats; direct and indirect impacts can't reach target features
3. Plans, directly connected or necessary for the conservation of the site → **NO ASSESSMENT**



Annex 1: Land use

ID	POSEG V NARAVO	NEPOSREDNI VPLIV	OPOMBA	OBMOČJE NEPOSREDNEGA VPLIVA (v m)	DALJINSKI VPLIV	OBMOČJE DALJINSKEGA VPLIVA (v m)
1	območja stanovanj, površine razpršene poselitve in razpršena gradnja	VSE SKUPINE		20	Glej Prilogo 2	100
2	območja proizvodnih dejavnosti	VSE SKUPINE		100	Glej Prilogo 2	1000
3	območja centralnih dejavnosti	VSE SKUPINE		20	Glej Prilogo 2	250
4	posebna območja	VSE SKUPINE		50	Glej Prilogo 2	250
6	območja zelenih površin	VSE SKUPINE		150	Glej Prilogo 2	1000
7	območja prometne infrastrukture	VSE SKUPINE		2000	Glej Prilogo 2	2000
8	območja komunikacijske infrastrukture	VSE SKUPINE		75	Glej Prilogo 2	75
9	območja energetske infrastrukture	VSE SKUPINE		200	Glej Prilogo 2	1000 oz. celoten vodni sistem
10	območja okoljske infrastrukture	VSE SKUPINE		75	Glej Prilogo 2	500 oz. celotno vodozbirno območje v katerega se iztekajo izpusti
12	območja površinskih voda in vodne infrastrukture	VSE SKUPINE		200	Glej Prilogo 2	2000 oz. celoten vodni sistem
13	območja mineralnih surovin	VSE SKUPINE		30	Glej Prilogo 2	500 oz. celotno vodno zemljišče dolvodno
14	območja kmetijskih zemljišč	VSE SKUPINE		25	Glej Prilogo 2	1000
15	območja gozdov	VSE SKUPINE		30	Glej Prilogo 2	500
16	območja za obrambo	VSE SKUPINE		20	Glej Prilogo 2	1000
18	druga območja	VSE SKUPINE			Glej Prilogo 2	



Annex 2: List of projects likely to have significant impact

PRILOGA 2
POGLAVJE IX.
OBMOČJA ENERGETSKE INFRASTRUKTURE

POSEG V NARAVO	NEPOSREDNI VPLIV	OPOMBA	OBMOČJE NEPOSREDNEGA VPLIVA (v m)	DALJINSKI VPLIV	OBMOČJE DALJINSKEGA VPLIVA (v m)
Postavitev nizkonapetostnega nadzemnega voda	0	0	0	bela štorčija, ujede	250
Postavitev visokonapetostnega nadzemnega voda	VSE SKUPINE	0	5	bela štorčija, črna štorčija, vodne ptice, ujede, netopirji	250
Postavitev podzemnega voda	VSE SKUPINE	0	75	0	0
Postavitev vetrnice za proizvodnjo električne energije	vse vrste ptic, netopirji, velike zveri, grmišča, travišča in skalovja nad gozdno mejo, suha travišča pod gozdno mejo, mokrotna travišča pod gozdno mejo, mezofitna travišča, barja, morski in obmorski habitatni tipi	0	100	bela štorčija, črna štorčija, vodne ptice, ujede, netopirji	1000
Gradnja ali razširitev hidroelektrarne	VSE SKUPINE	0	100	VSE SKUPINE	Poseg se presoja na celotnem vodnem sistemu, katerega del je varovano območje



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Advantages and dissabilities

Pros

- + easier for consenting authorities to decide about implementation of assessment procedure
- + pre-assessment: list of projects and target features likely to be impacted

Cons

- Not all projects are listed
- Unexpected impacts can affect other features than listed
- Area of indirect impact can be bigger than listed

Security:

- “... projects from Annex 2 or any other project likely to have significant impact”
- “... area of indirect impact can be bigger than listed, but it has to be justified”

No security for non-listed target features; practice!



How to decide?

We need good knowledge of:

- the area
- planned activities and their consequences
- present species and habitats
- ecological demands of present species and habitats



Key questions

1. What are the plan impacts?
 - Land take
 - Noise
 - Emissions
 - Radiation
 - Change of abiotic factors (water regime, temperature...)
2. Which N2k sites could be affected? What are the conservation objectives of the site?
3. Which target features are present at the location and in the area of indirect impacts?
4. How can the plan impacts affect target features (their ecological demands)?



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Priloga 6

Matrika za ugotavljanje vpliva

Annex 6: matrix for assessment of impact

Kategorija učinka	Pomembnost učinka		Vpliv na celovitost območja	Vpliv na povezanost območij	Vpliv na varstvene cilje območja	
- delež ali velikostni razred trajne (po zaključku projekta) izgube območja habitata vrste oz. habitatnega tipa zaradi neposrednega vpliva	Vrsta/HT	Podocena	Podocena	Podocena	Var. cilj 1	Podocena
	vrsta 1				Var. cilj 2	
	vrsta 2				Var. cilj 3	
	HT 1				...	
	...					
- delež ali velikostni razred začasne (v času izvajanja projekta) izgube območja habitata vrste oz. habitatnega tipa zaradi učinka neposrednega vpliva, v času izvajanja projekta	Vrsta/HT	Podocena	Podocena	Podocena	Var. cilj 1	Podocena
	vrsta 1				Var. cilj 2	
	vrsta 2				Var. cilj 3	
	HT 1				...	
	...					
- velikostni razred spremembe posebnih struktur ali rabe (intenzifikacija ali opustitev) ali	Vrsta/HT	Podocena	Podocena	Podocena	Var. cilj 1	Podocena
	vrsta 1				Var. cilj 2	
	vrsta 2				Var.	

The matrix is used for main assessment but it is also useful for screening.



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Categories of impact

- permanent habitat loss
- temporary habitat loss
- change of special structures, change of use (intensification or abandoning) or change of natural processes needed for long-term conservation of target features
- Changes of key indicative chemicals (also as pollution result), radiation changes, noise, changes of lighting
- Changes of water regime and natural water dynamics (including flooding)
- reduced success of reproduction and surviving due to habitat fragmentation
- reduced success of reproduction and surviving or change in mortality level because of new obstacles in the habitat
- reduced success of reproduction and surviving due to habitat fragmentation
- habitat patches reduction
- permanent population size decline
- temporary population size decline



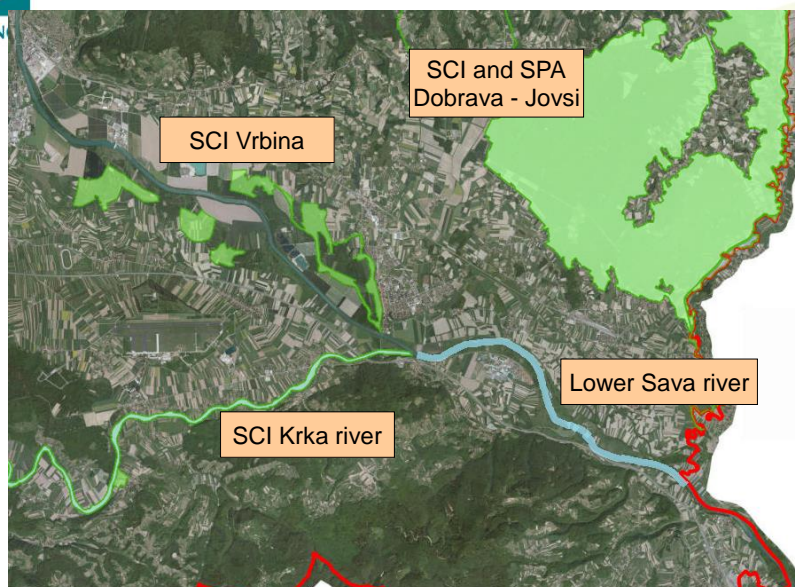
Example of screening: Hydropower plant Brežice

1. Plan impacts:

- Land take (dam, reservoir, flood protection dikes, long-distance transmission, access roads, areas for tourism and recreation...)
- Noise during construction and while using, change in water regime, change in flooding, higher water temperatures, raise of underground water level, disturbances due to tourism and recreation...)
- Eutrophication...



2. N2k sites





3. Target features

SCI Krka river: *Lutra lutra*, *Castor fiber*, *Emys orbicularis*, *Proteus anguinus*, *Hucho hucho*, *Rutilus virgo*, *Aspius aspius*, *Barbus balcanicus*, *Gobio uranoscopus*, *Rhodeus amarus*, *Sabanejewia balcanica*, *Zingel streber*, *Unio crassus*, *Vertigo angustior*, *Callimorpha quadripunctaria*.

(91L0) Ilirski hrastovo-belogabrovi gozdovi (*Erythronio-Carpinion*)

(91K0) Ilirski bukovi gozdovi (*Fagus sylvatica* (*Aremonio-Fagion*)),

(8310) Jame, ki niso odprte za javnost, (6210(*)) Polnaravna suha travišča in grmiščne faze na karbonatnih tleh (*Festuco-Brometalia*) (*pomembna rastišča kukavičevk),

(3260) Vodotoki v nižnjem in montanskem pasu z vodno vegetacijo zvez *Ranunculion fluitantis* in *Callitricho-Batrachion*

SCI Vrbina:

(6510) Nižnski ekstenzivno gojeni travniki (*Alopecurus pratensis*, *Sanguisorba officinalis*),

(6210(*)) Polnaravna suha travišča in grmiščne faze na karbonatnih tleh (*Festuco-Brometalia*) (*pomembna rastišča kukavičevk)

Lower Sava river: *Rutilus virgo*, *Aspius aspius*, *Barbus balcanicus*, *Gobio uranoscopus*, *Rhodeus amarus*, *Sabanejewia balcanica*, *Cobitis elongatoides*, *Cobitis elongata*, *Romanogobio vladkovi*



Findings

Likely significant impact:

- Fish species: change in water regime and temperature, destruction of spawning areas, cut of migration paths...
- Habitat types (dry meadows): raise of underground water level, tourism and recreation
- River habitat types: change of water regime, flooded area
- Forest habitat types: land take, flooding
- Otter, beaver: land take, changes in morphology of rivers, fragmentation...

Plan is likely to have significant impacts on integrity of the sites.