

**SECONDARY SCHOOL MATE BLAZINA LABIN
CROATIA**

LANDSCAPE PARTICULARITY OF THE LABIN – RABAC FOOTPATH

RESEARCH QUESTION:

- ☼ quality of the water from the sources , air and soil
- ☼ vegetation diversity
- ☼ human activities impact

RESEARCH METHOD:

- UNESCO PROTOCOLS

DATA SUMMARY:

1. LABIN – RABAC FOOTPATH



**BEGINNING OF THE
PATHWAY - LABIN**



1ST RESTING PLACE



VARIETY OF FLORA



WATER ECOSYSTEM



BRIDGES



**THE END OF THE
PATHWAY - RABAC**

2. GEOGRAPHICAL COORDINATES AND THE PHYSICAL CHARACTERISTICS



3. WATER QUALITY

FEATURE	SPRING	LAKE	SEA	STANDARD
COLOUR	no	light yellow	no	no
TRANSPARENCY	transparent	turbid	transparent	transparent
SMELL	no	weak	no	no
TEMPERATURE ^o C	20	22	23	-
pH	7.5	7.0	7.8	6.5-8.5
THICKNESS - g/cm ³	0.998	0.996	1.020	-
SALINITY- 0/00	0.2	0.2	29.1	-
HARDNES 0 nj	15	20	>300	-
DISSOLVED OXYGEN- mg/l	7	7	8	>7
CLORIDE - mg/l	0	0	>3000	-
SULFAT- mg/l	<200	400	<200	<200
NITRATE/NITRITE- mgN/l	0/0	0/0	0/0	<0.5/<0.01
AMMONIA - mgN/l	0	0.1	0	<0.1
PHOSPHATE- mgP/l	0	0	0	<0.01
HEAVY METALS- mg/l	0	0	0	0
CLASS	I	III	I	I

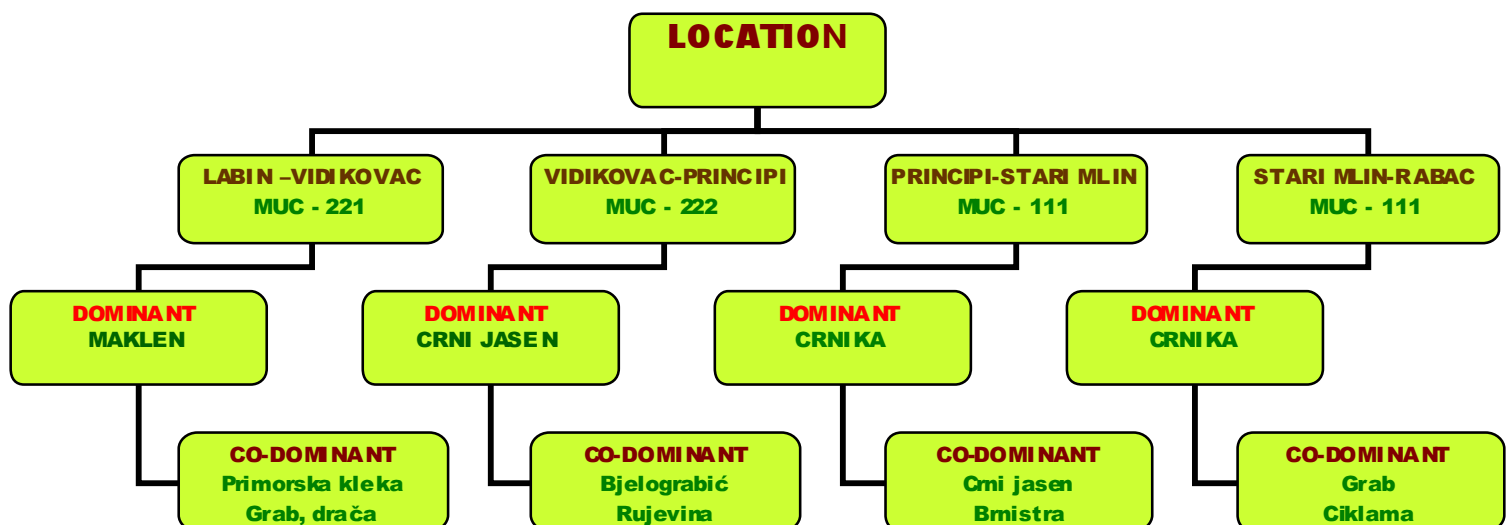
4. SOIL QUALITY

FEATURE	LABIN	VIDIKOVAC	PRINCIPI	RABAC
TYPE OF SOIL	clay	clay	clay - sandy	clay - sandy
pH	6	6	6	6
NITRATE/NITRITE- mgN/l	0/0	0/0	0/0	0/0
SULFAT - mg/l	> 400	> 400	200	200
CLORIDE - mg/l	0	0	0	200
MERCURY - mg/l	malo	0	0	0
LEAD - mg/l	malo	0	0	0
COPPER - mg/l	0	0	0	0
QUALITY	not polluted	not polluted	not polluted	not polluted

5. AIR QUALITY

TOTAL SEDIMENTARY MATTER	LABIN	RABAC
GVZ – 450 mg / m ² . d	117	88
QUALITY	not polluted	not polluted

6. BIODIVERSITY



DOMINANT



MAKLEN
Acer monpessulanum L.

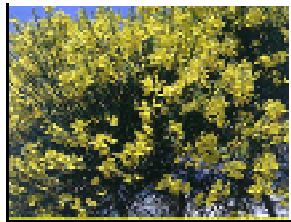


CRNI JASEN
Fraxinus omus L.



CRNIKA
Quercus ilex L.

CO-DOMINANT



BRNSTRA
Paliurus spina-christi Mill.



DRAČA
Spartium junceum L.



CIKLAMA
Cyclamen repandum S.S.



RUJEVINA
Cotinus coggygria Scop.



BJELI GRAB
Carpinus orientalis Mill.



CRNI GRAB
Ostrya carpinifolia Scop.



PRIMORSKA KLEKA
Juniperus oxcedrus L.

ANALYSIS

To valorized landscape features of the pathway we used UNESCO PROTOCOL

	ASSESSMENT					
A) PHYSICAL FACTORS	1	2	3	4	5	
1. TYPE OF TERRAIN	EROSIVE ●				STABLE	
2. EXPOSITION	SHADED				SUNNY ●	
3. SURFACE WATER	SOME			●	A LOT	
4. AVERAGE AIR TEMPERATURE	COLD		●		WARM	
5. NUMBER OF SUNNY DAYS A YEAR	FEW		●		MANY	
6. PRECIPITATION ON AVERAGE	LITTLE/ A LOT			●	MODERATE	
7. WIND	PERMANENT			●	RARE	
SUM	1	0	2	3	1	
TOTAL ASSESSMENT A) = 24	MEDIAL ASSESSMENT A) = 3.43					
B) CHEMICAL FACTORS	1	2	3	4	5	
1. SOIL QUALITY	POLLUTED			●	HIGH QUALITY	
2. WATER QUALITY	POLLUTED			●	CLEAN	
3. AIR QUALITY	POLLUTED				CLEAN ●	
SUM	0	0	0	2	1	
TOTAL ASSESSMENT B) = 13	MEDIAL ASSESSMENT B) = 4.33					
C) BIOLOGICAL FACTORS	1	2	3	4	5	
1. FLORA	SPARE				GOOD ●	
2. NUMBER OF VEGETAL SPECIES	FEW				MANY ●	
3. FAUNA	FEW		●		MANY	
4. ENDEMIC SPECIES	FEW		●		MANY	
SUM	0	0	2	0	2	
TOTAL ASSESSMENT C) = 16	MEDIAL ASSESSMENT C) = 4.00					
D) HUMAN ACTIVITIES	1	2	3	4	5	
1. VIEWS - LOKAL	NO				BEAUTIFUL ●	
2. VIEWS - DISTANT	NO			●	BEAUTIFUL	
3. ACCESS	DIFFICULT			●	EASY	
4. INFRASTRUCTURE	BAD	●			EXCELLENT	
5. TRAFFIC	LOW ●				HEAVY	
6. INDUSTRIAL OBJECTS	MANY				NO ●	
7. SETTLEMENTS	DEVELOPED				NO ●	
8. SPORTS FACILITIES	NO ●				MANY	
9. FACILITIES – BENCHES, HANDRAIL ...	BAD		●		EXCELLENT	
10. SECURITY – SIGNS, GUARDS ...	BAD	●			EXCELLENT	
11. MAINTENANCE	BAD		●		EXCELLENT	
12. WASTE	A LOT				NO	
13. NOISE	A LOT			●	NO ●	
14. USAGE	LOW		●		HIGH	
15. SOCIOECONOMIC IMPORTANCE	LITTLE ●				MUCH	
16. TOURIST IMPORTANCE	LITTLE			●	MUCH	
17. EDUCATIONAL IMPORTANCE	LITTLE		●		MUCH	
SUM	3	2	4	4	4	
TOTAL ASSESSMENT D) = 55	MEDIAL ASSESSMENT D) = 3.22					
TOTAL ASSESSMENT = 108	MEDIAL ASSESSMENT = 3.48					
MIN: 31	MAX: 155			MIN: 1.00	MAX: 5.00	

CONCLUSIONS

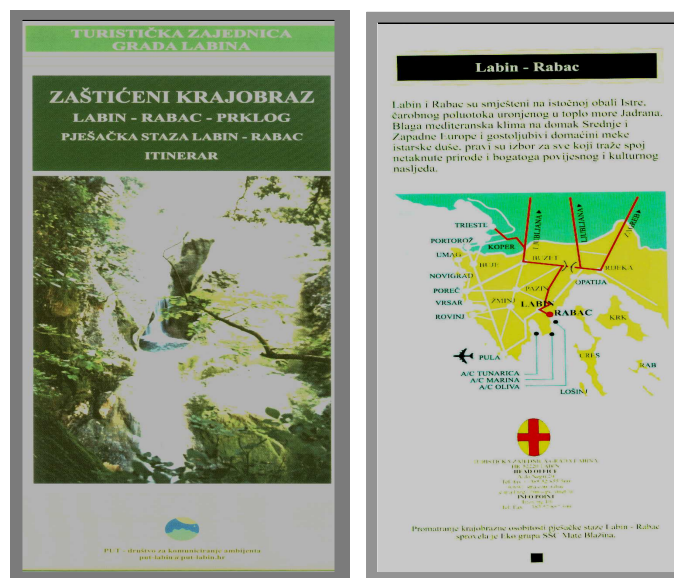
Labin particularities of LABIN - RABAC footpath are excellent, but there are few things which should be improved.

First of all, the footpath itself should be put in order and all particularities should be signposted.

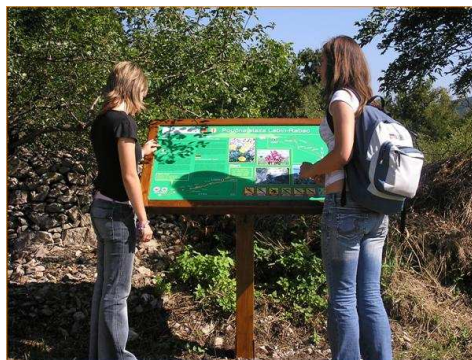
In this way we would emphasize the educational importance as well as tourist and recreational ones.

WE HAVE PRESENTED THE RESULTS OF OUR WORK TO THE LOCAL COMMUNITY AND HAVE INSPIRED THEM TO ACT:

 **BOTANICAL MAP IN CROATIAN, ITALIAN AND ENGLISH HAS BEEN PRINTED**



 **THE EDUCATIONAL SIGNPOSTS HAVE BEEN PUT ALONG THE PATH**



BIBLIOGRAPHY

1. http://portal.unesco.org/UNESCO_protocols
2. <http://public.carnet.hr/botanic/cisb/doc/flora/flora.html> FLORA HRVATSKE