

REGION OF ISTRIA (CROATIA)



Jasenka Kapuralin
AZRRI- Agency for Rural Development of Istria
Pazin- Croatia

EU.WATER
Kick-off meeting
6th of July, Province of Ferrara

- Agency is founded for the purpose of the joining public and private sector, and for preparing and implementation projects into a rural area
- It is a first agency of this kind in Croatia, with a specific purpose to coordinate production-wise activities into rural areas of Istrian County

AZRRI
Agency for Rural Development of Istria





The Istrian County

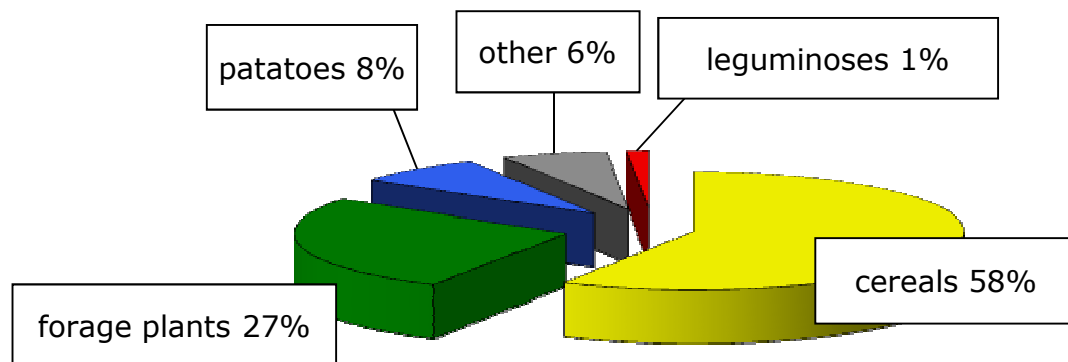
- Situated in the north-west of the Adriatic Sea
- Covers the surface of 3.476 square kilometers
- The area is shared by three countries: Croatia, Slovenia and Italy

Agriculture

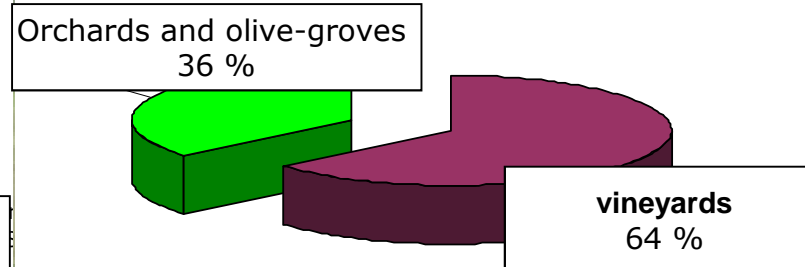
- **cultivated agriculture surfaces total: 29.853 ha**
 - fields 12.100 ha
 - vineyards, orchards, olive-groves: 10.000 ha
 - pastures 7.780 ha
- **agriculture surfaces not cultivated: 8.777 ha**
- **forests: 18.683 ha**
- **others surfaces: 3.478 ha**

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- **Agriculture surfaces total: 60.791 ha**

Cultivated fields



vineyards, orchards



Target area

Agronomic information

	YES	NO
Does a GIS soil map of your target area exist?		X

Specification:

- Agriculture surfaces total: **55.581,39 ha**
- the percentage of dominant types of soil texture

1. HIGHLAND- COUNTRY AT UCKA AND CICARIJA

25% stallow- black soil on limestone and dolomite brown soil on limestone

2. FLISCH IN CENTRAL ISTRIA

25% marly soil with sandstone and softy limestone

3. ISTRIAN PLATEAU

40% red soil ("terra rossa")

4. RIVER VALLEYS

10% alluminium soil and antropogenous hidromorf soil



Target area

Agronomic information

Type of soil	Medium quality (low and high quality areas also present)
Precipitation data	883 mm
The quality of groundwater, in relation to concentrations of:	
Ammonium (NH ₄ ⁺)	0,50 mg/l
Nitrite (NO ₂ ⁻)	0,10 mg/l
Nitrate (NO ₃ ⁻)	50.0 mg/l
Organic carbon	1 mg/l
The quality of superficial water, in relation to concentrations of:	
Ammonium (NH ₄ ⁺)	0,50 mg/l
Nitrate (NO ₃ ⁻)	50.0 mg/l

National Law on
water
(NN107/05)

Total amount of enterprise in County of Istria: 850 (medium and small)
100% receive national financial support
Only one enterprise received EU grant for agricultural production (SAPARD Programme).



Programme co-funded by the
EUROPEAN UNION



Target area

Agronomic information

Target area							
Crop	Area (in ha)	Area (in %)	Main nitrogen fertilizer	Units of nitrogen (kg/ha)	Period	Depth of plowing	Other
wheat	1.500	5,00	Urea KAN		Pre-sowing 30% Sprouting 50%	25- 30 cm	-
maize	400	1,3	Urea KAN		Pre-sowing 30% Sprouting 50%	25- 30 cm	
oats, barley	1.700	5,69	Urea KAN		Pre-sowing 30% Sprouting 50%	25- 30 cm	
potatoes	820	2,74	Urea KAN		Pre-sowing 30% Sprouting 50%	25- 30 cm	
vineyards	5.000	16,7			Pre-sowing 30% Sprouting 50%	25- 30 cm	
Olive groves	3.000	10,0			Pre-sowing 30% Sprouting 50%	25- 30 cm	

Problems- Croatia

❖ Nitrate Directive

✓ Croatia: Ordinance on good agricultural practice on manure utilisation (NN56/08) which will enter into force on the date of the accession of the Republic of Croatia to the European Union

❖ Water resources

✓ Croatia lacks a comprehensive system of water quality monitoring, resulting in inconsistent and poor data

✓ Statistics on the share of agriculture in total soil and water pollution are not available

✓ Data from the Croatian Water Resources Management Plan indicate that agriculture accounts for more than 90% of the total nitrogen pressure on Croatian water resources each year. Croatian agriculture threatens water resources primarily through the use of atrazine and nitrogen applications above 150 kg N/ha.

Partner's expectations

❖ Croatia's policies efforts on nutrient pollution control are focused on aligning national legislation with the EU

Regulations controlling negative environment impacts due to nutrients derived from agriculture are at an early stage of development

❖ existing water quality monitoring will be adjusted/improved following the requirements of the related EU directives.

❖ Developing specific legislation