

# **Best practice examples of the conservation of traditional breeds in protected areas in Croatia with legislation overview**

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**mr. Jasna Jeremić, dr.vet.med.  
Domesticated taxa Section  
State Institute for Nature Protection**





# **Institutional structure**

## **State Institute for Nature Protection**

- public institution set up by the Decree of the Croatian Government in 2002
- public service for expertise work in nature protection in Croatia
- cooperates with ministries, government institutions, public institutions, NGOs and other relevant bodies

## **Department for Nature Protection**

## **Ministry of Culture**



# Legislation

- **The Convention on Biological Diversity – the Rio Earth Summit 1992, The Republic of Croatia became a party to the Convention on 1997**
- **Nature Protection Act (2003, 2005, revised 2008)**
- **National Strategy and Action Plan for the Protection of Biological and Landscape Diversity - NSAP (2000, revised 2008)**



# Nature Protection Act

- ***domesticated species*** means a species whose evolution process has been controlled by man for the purpose of meeting his proper needs
- ***indigenous species*** means a species naturally inhabiting a specific ecosystem of an area



# Nature Protection Act

Protected natural assets under this Act are:

1. protected areas
2. protected taxa:
  - strictly protected wild taxon,
  - protected wild taxon,
  - *protected indigenous domesticated taxon*



# Nature Protection Act

The designation of a *protected indigenous domesticated taxon* shall be granted to the *endangered inherited plant variety and/or animal breed* developed as a result of traditional breeding and shall constitute an integral part of Croatian natural heritage.





# National Strategy and Action Plan for the Protection of Biological and Landscape Diversity - NSAP

**Strategic objective** – protect and enhance the existing genetic diversity of domesticated taxa by all suitable conservation methods (*in situ, ex situ, inter situ*)

## **Strategic guidelines**

- to ensure the conservation of critically endangered domesticated taxa
- to improve support for breeding and use of the domesticated taxa
- to enhance use of domesticated taxa for preservation of the endangered habitats



# National Strategy and Action Plan for the Protection of Biological and Landscape Diversity - NSAP

## Action plans

- to develop and implement conservation programmes for critically endangered domesticated taxa
- to develop the programme of activities for use of domesticated taxa for preservation of endangered habitats in the frame of agro-environmental programme
- to enhance *in situ* keeping and breeding of domesticated taxa for maintenance of endangered habitats





# National Strategy and Action Plan for the Protection of Biological and Landscape Diversity - NSAP

**Strategic objective** – conserve the components of biodiversity outside the natural habitats

**Strategic guideline** – implementation of the *ex situ* conservation method for most endangered domesticated and endemic taxa

## **Action plans**

- to develop the *ex situ* conservation programme
- to establish the gene bank

# Conference on Native Breeds and Varieties as part of Natural and Cultural Heritage Šibenik, Croatia 13 – 16 November 2007

- 74 lectures performed by Croatian scientists and experts
- 24 lectures performed by foreigner scientists and experts
- 28 poster in poster section
- 200 participants from 20 Countries



# Conference on Native Breeds and Varieties as part of Natural and Cultural Heritage Šibenik, Croatia 13 – 16 November 2007

## Conclusions

- protection and conservation of the domesticated taxa genetic resources is necessity and high interest of Croatia
- to undertake inventory and determination of all domesticated taxa



# Conference on Native Breeds and Varieties as part of Natural and Cultural Heritage Šibenik, Croatia 13 – 16 November 2007

## Conclusions

- to establish the National Committee under the Government competence for enforcement of conservation programmes
- to create National conservation programme for domesticated taxa
- to provide human and financial resources for sustainable and long term enforcement of National programme

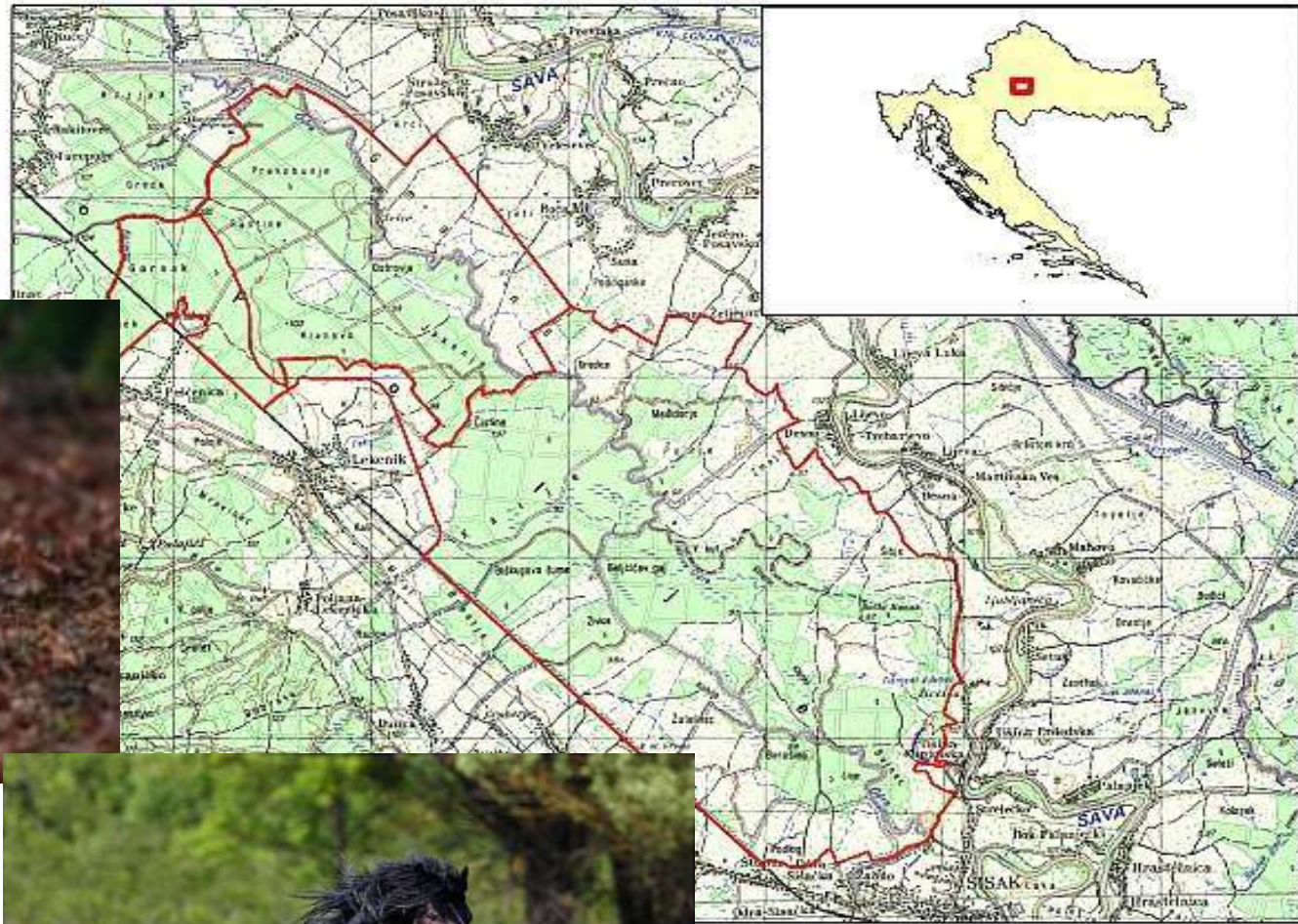


# List of autochthonous breeds

Species	Breeds	Status
<b>cattle</b>	Slavonian Sarmian podolian cattle	critically endangered
	Istrian cattle	high endangered
	"Busha" cattle	critically endangered
<b>horse</b>	Croatian Posavac	pot. endangered
	Croatian cold blood horse	pot. endangered
	Međimurje horse	critically endangered
	Lipizzaner	endangered
<b>donkey</b>	Istrian donkey	critically endangered
	Littoral Dinaric donkey	high endangered
	North Adriatic donkey	critically endangered
<b>sheep</b>	Tzigai sheep	pot. endangered
	Cres island sheep	not endangered
	Dalmatian "pramenka"	not endangered
	Ruda (Dubrovnik) sheep	high endangered
	Istrian sheep	not endangered
	Krk island sheep	not endangered
	Lika "pramenka" sheep	not endangered
	Pag island sheep	not endangered
	Rab island sheep	not endangered
<b>goat</b>	Croatian spotted goat	not endangered
	Croatian white goat	high endangered
<b>pig</b>	Black Slavonian pig	high endangered
	Turopolje pig	critically endangered
<b>poultry</b>	Zagorje turkey	high endangered
	Croatian hen	high endangered
<b>honeybee</b>	Carniolan bee ( <i>Apis mellifera carnica</i> )	not endangered

# Review of activities

## Turopoljski lug

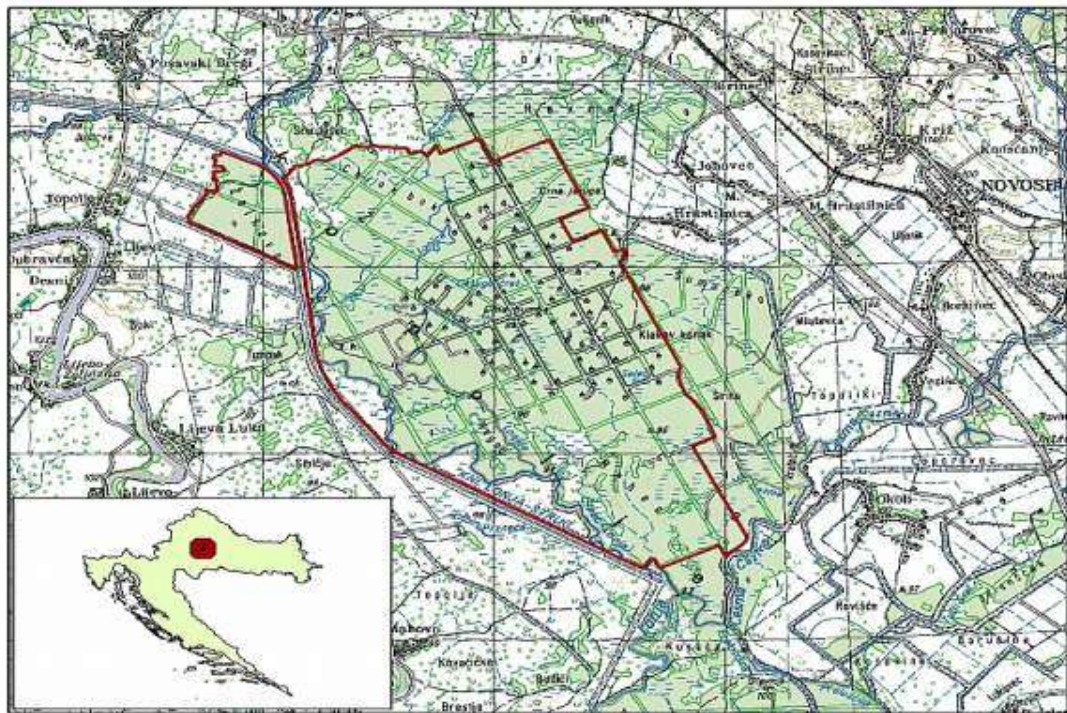


## Odransko polje



# Review of activities

## Žutica



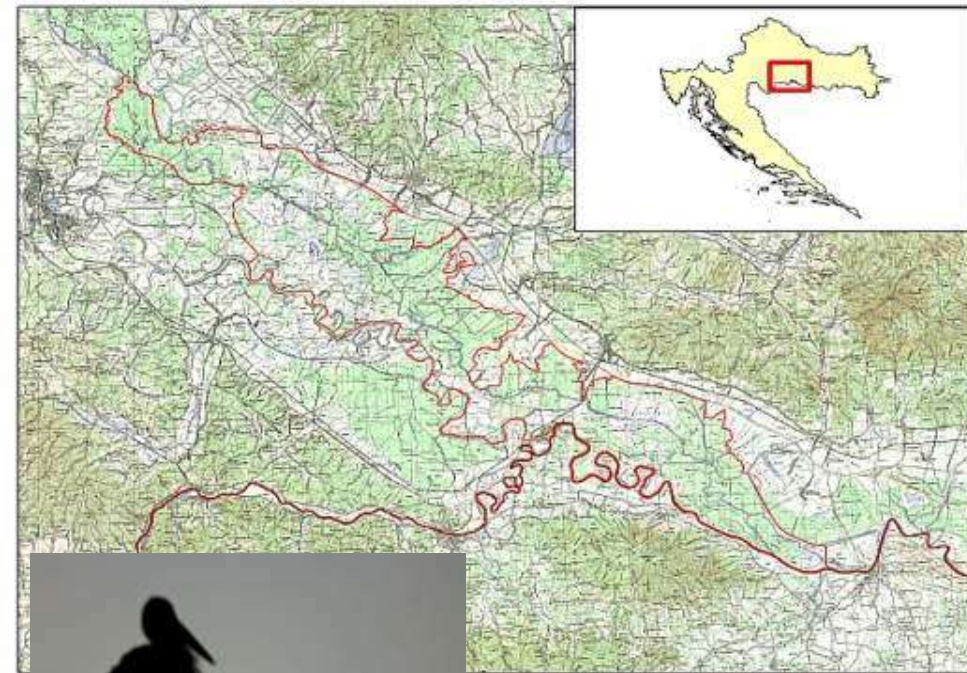
*Fritillaria meleagris* – Chequere fritillary



*Castor fiber* - Beaver

# Review of activities

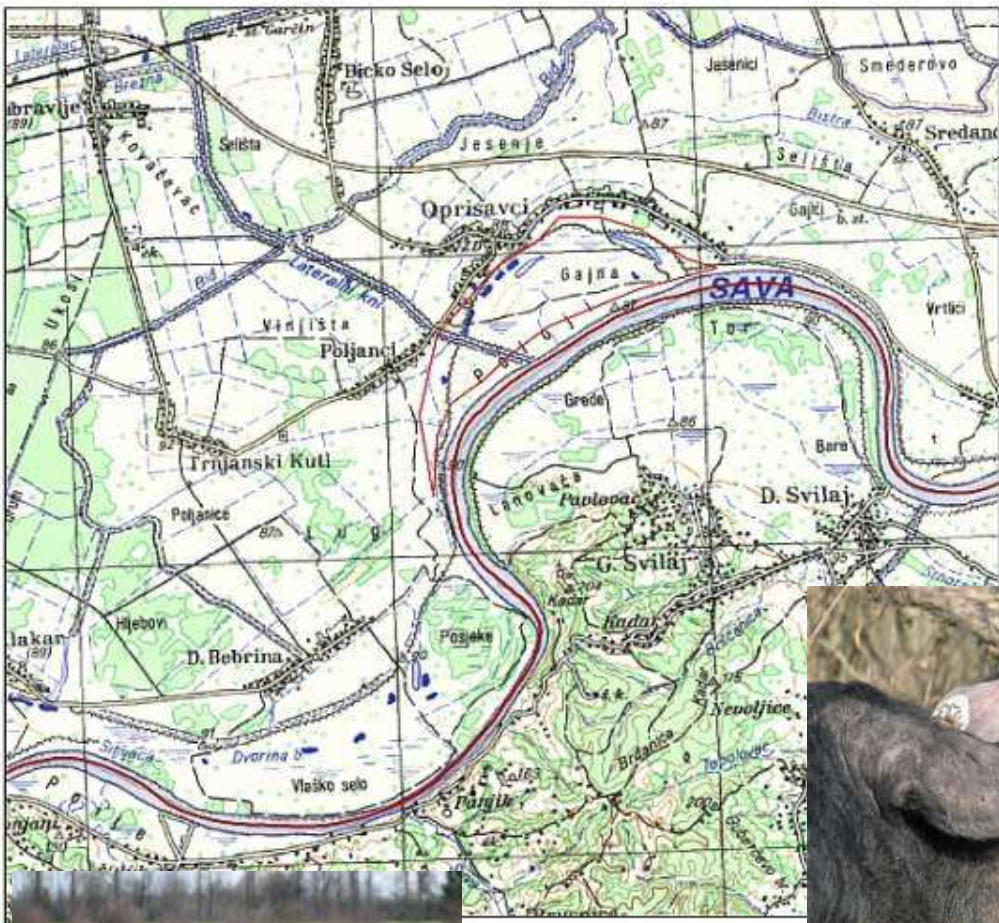
## Nature Park Lonjsko polje





# Review of activities

# Gajna





*Amorpha fruticosa*- Amorpha

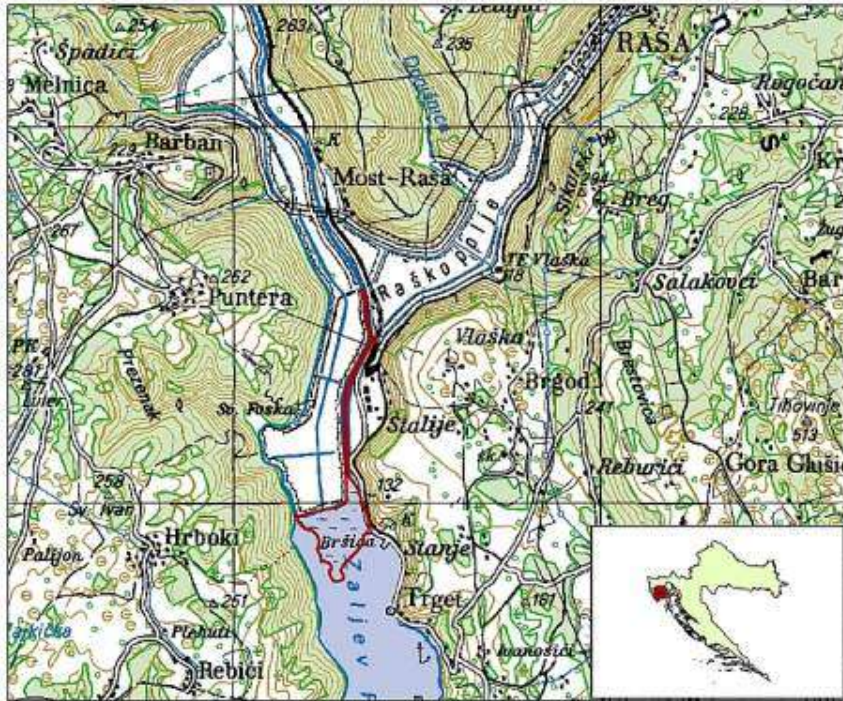


# Review of activities

# Gajna



# Review of activities

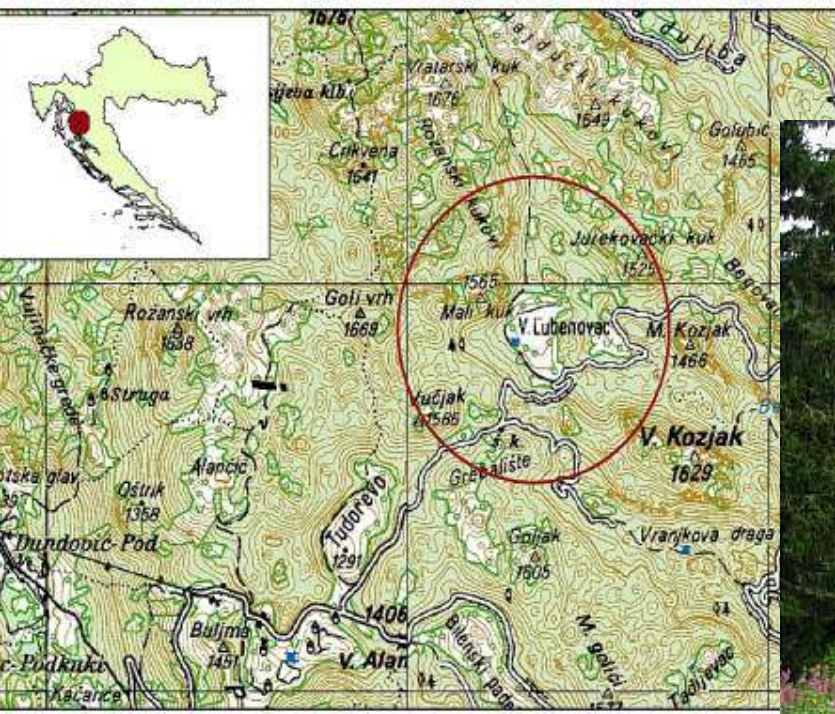


# Raško polje, Istra



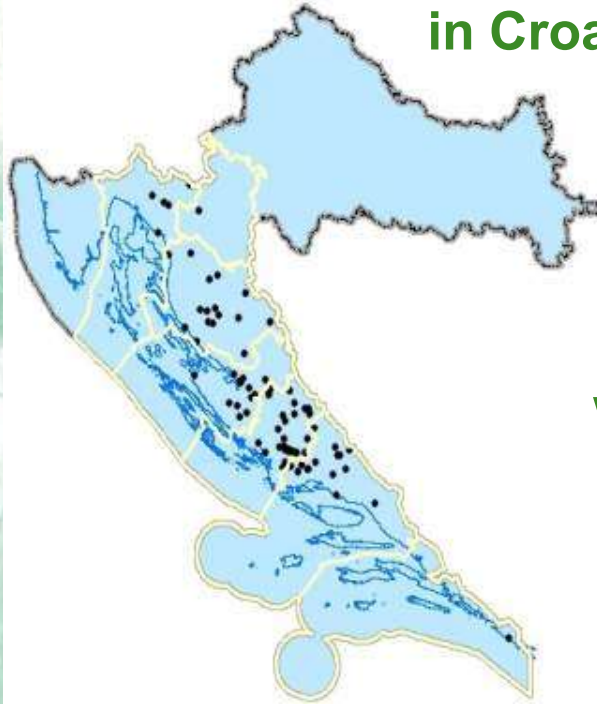
# Review of activities

## Velebit mountain - Lubenovac



# Review of activities

Project LIFE III “Conservation and management of wolves in Croatia” (2002 – 2005)



[www.life-vuk.hr](http://www.life-vuk.hr)



Tornjak dog





## Activities

- **LIFE III Project “Protection of Biodiversity of the Sava River Basin Floodplains” - [www.savariver.com](http://www.savariver.com)**
- **National Project “Dalmatinska tuka – phenotype characteristics and ecological areal determinants” – Faculty of Veterinary Medicine and Ministry of Agriculture, Fishery and Rural Development**



## Planned Activities

- **Red list of endangered domesticated taxa with associated habitats**
- **Red book of endangered domesticated taxa**
- **Action Plan for Turopolje pig**
- **Action Plan for Buša cattle**



**Thank you for your attention!**



**[www.dzzp.hr](http://www.dzzp.hr)**