



History, Presence and Future of the Traditional Pasturing System of Lonsjko Polje Nature Park

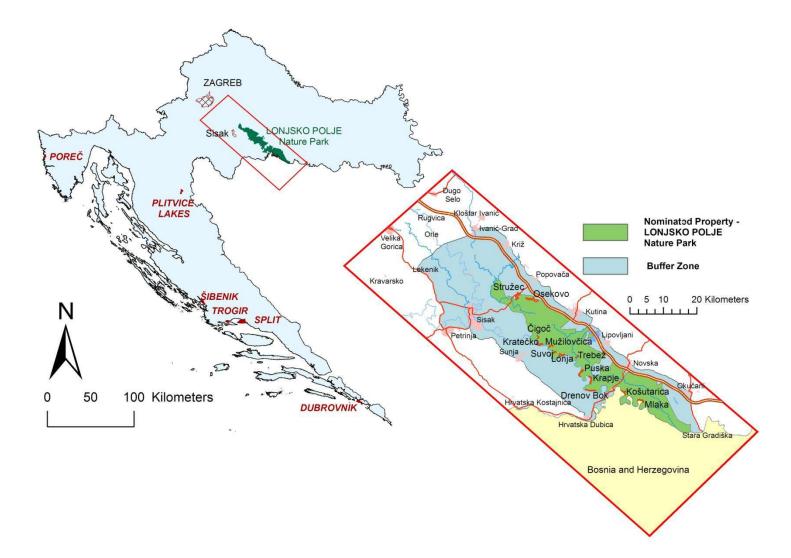


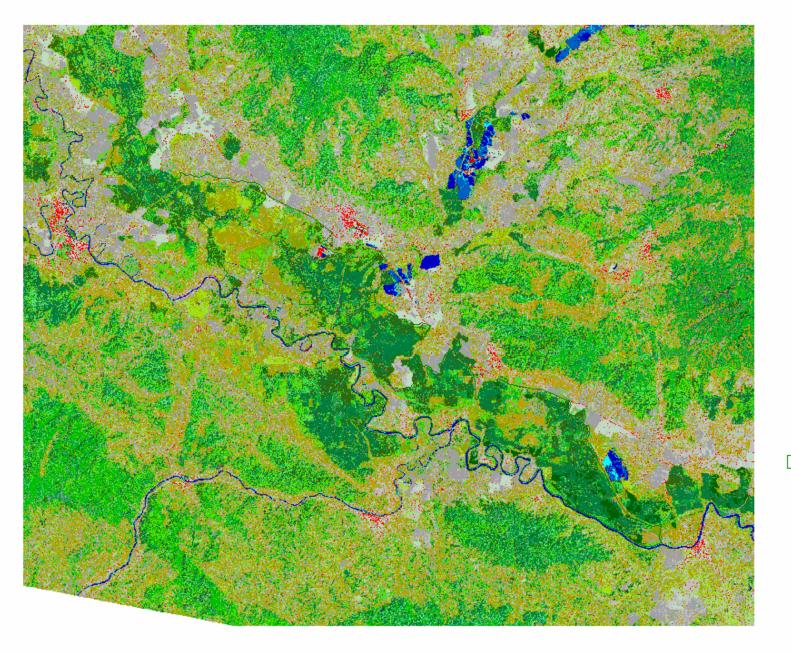
Goran Gugić

Riperian Lowlands – Former Cores of Animal Husbandry



Lonjsko Polje Nature Park constitutes a unique example of an organically evolved landscape with a preserved medieval system of the common pasturing typical of the whole of Central Europe's lowlands until the second half of the 19th century.







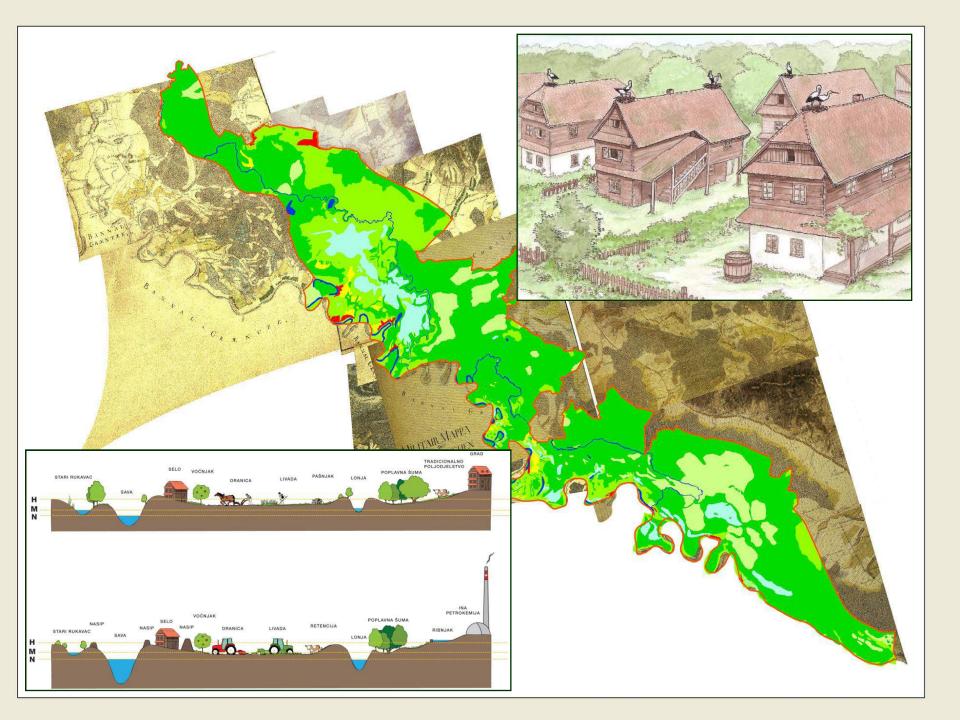


Flooding – A Ecological Keystone Process

- Because of the exceptional arrangement of the river system, inundation may occur at any time of the year
- Indirect flooding caused by backflow



Adaptation to Flooding – A Cultural Keystone Process



Spoonbill

- The only recorded breeding area where the adult birds use the wet pastures for foraging
- The only recorded permanent colony of this species situated in an oxbow

Fish Spawning

 Wild carp needs shallow water, warmed up to 18°C, and likes grass It is here where the White Stork attains the greatest nesting success ever recorded in the literature

How to integrate wetlands into river basin management?

- Wetland management within the context of both surrounding waterscape and landscape
- Match water resources strategies with land use strategies
- Make "hard-wired" management objectives

landscape

wetland

waterscape

Basic Forms of Pasturing

- The commons (*gmajna*): occupy the area on the great flood-liable grazing lands used in common Haymaking complex (*sjenokoša*): on private or common areas of meadows used for both pasturing and hay-making.
- Poloj: pasturing using the embankments, the edges of the roads, the copses and the inundation area between the Sava and the embankment, referred to as poloj.

Posavina Horse

- Still completly in the hands of local breeders
- More important of a over-restrictive "purebred" phenotype are exceptional character and social behaviour, adaptation to the natural floodplain conditions, ability to learn quickly – a essential trait in the past





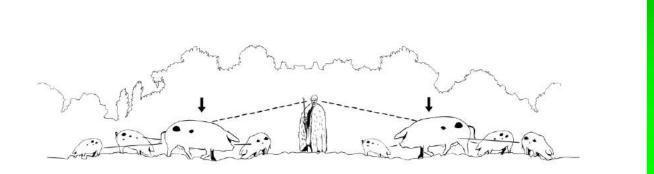
Masting

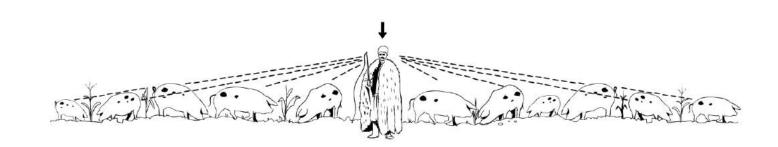
 Quite large number of breeders with knowledge about the traditional system of foraging the pigs

Turopolje Pig

- For economical reasons: cross-breeding
- In-situ conservation had to have the primary goal of rehabilitating the original Turopolje pig (done by LPNP)
- But rehabilitation amongst breeders, too:
- 1. Risk-management
- Traditional knowledge
 Critical number for comercial use

Herd- and Jato Management





Pig Pasture

- Rejunivation of annual plants
- Rooting establishes a microrelief with greater structural diversity
- Crucial for biodiversity: Mentha pulegium, Pulicaria vulgaris, Teucrium scordium, Marsilea quadrifolia, Gratiola officinalis



Slavonian-syrmian Grey Cattle

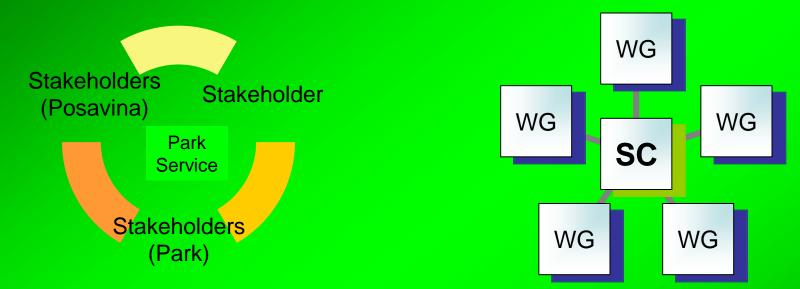
Remaining base stock considered as critical endangered
By now completly in the hands of LPNP to minimise inbreeding at this stage

Invasion of Amorpha fruticosa

Slavonian-syrmian Grey Cattle

 Crucial for the rehabilitation of grasslands covered by the invasive shrub species Amorpha fruticosa

Towards Integrated Management



- Stakholder analysis dionika
- ☑ Establish appropriate structures
- Learn appropriate techniques of integrated management
- ☑ Learn the stakeholders' language
- ✓ Ensure the feed-back of information

Finding a mutual visio

- Identify existing problems
- Elaborate possible solutions
- Give guidance for further development

