





Lonjsko Polje Nature Park – The Living Landscape and Floodplain Ecosystem of the Central Sava River Basin

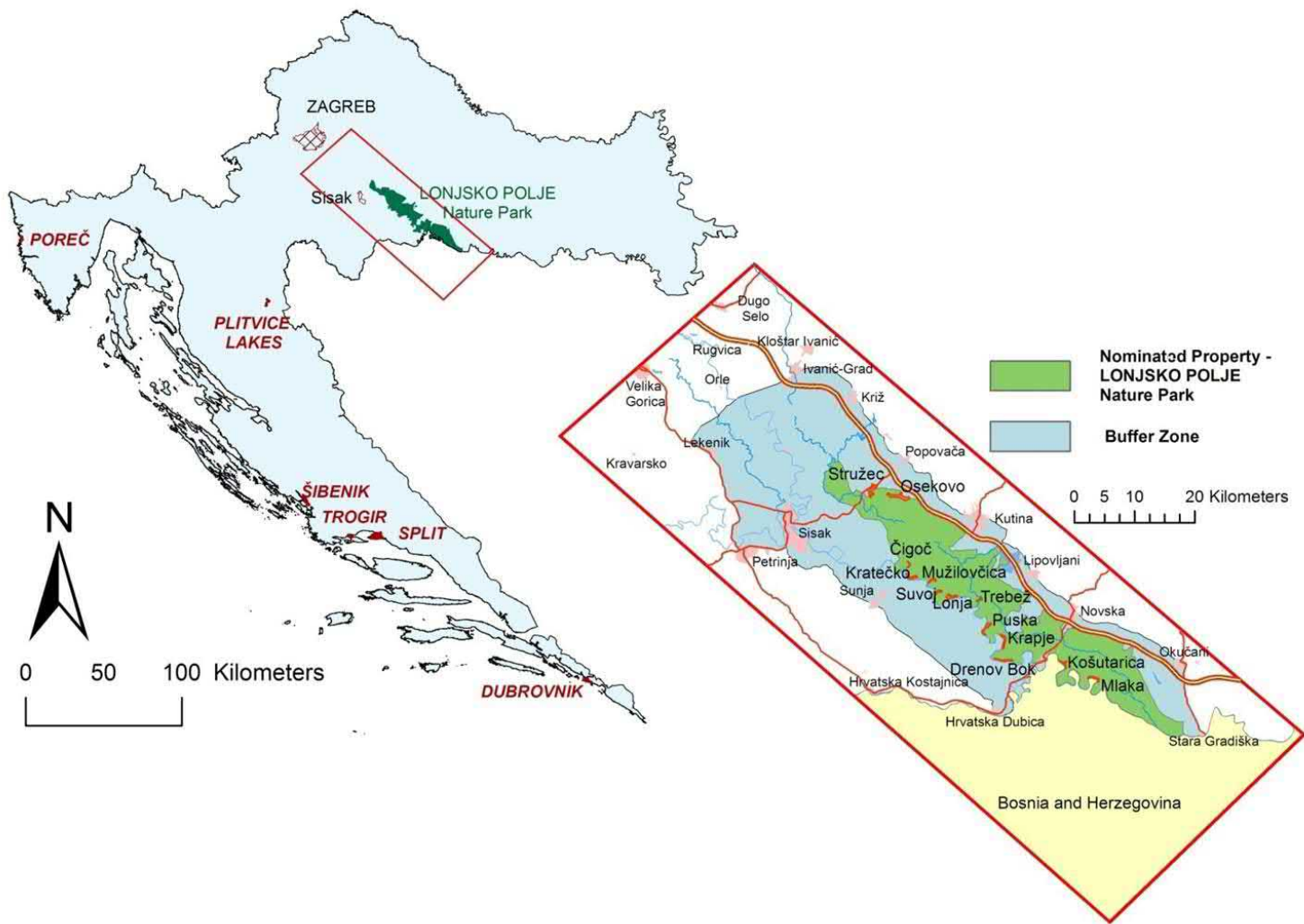


Goran Gugić

Riparian Lowlands – Former Cores of Animal Husbandry

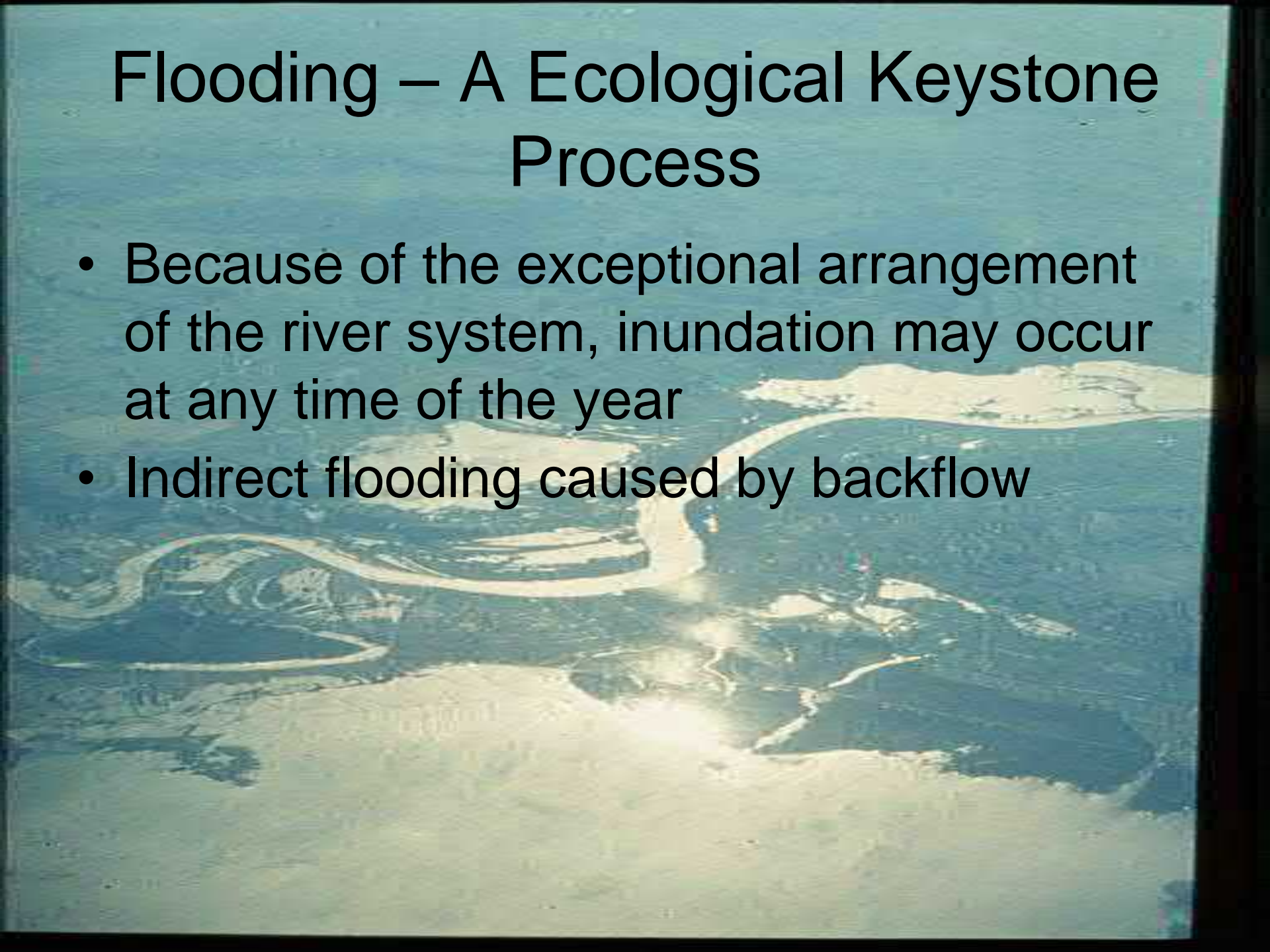


Lonjsko Polje Nature Park constitutes a unique example of an organically evolved landscape with a preserved medieval system of the common pasturing typical of the whole of Central Europe's lowlands until the second half of the 19th century.



Flooding – A Ecological Keystone Process

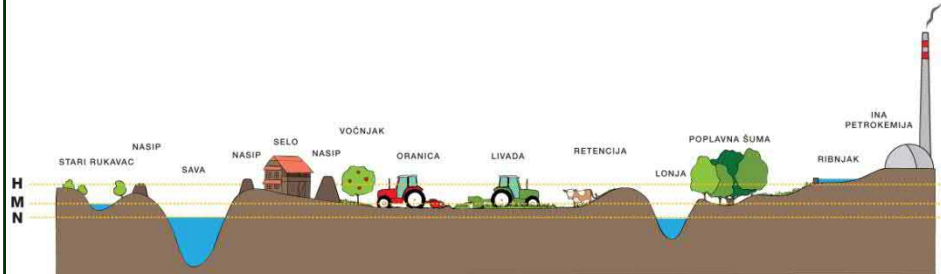
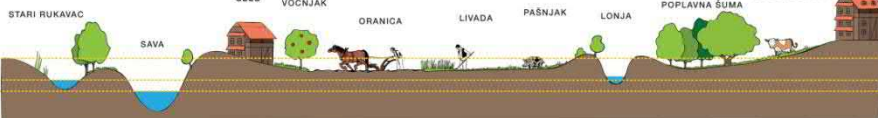
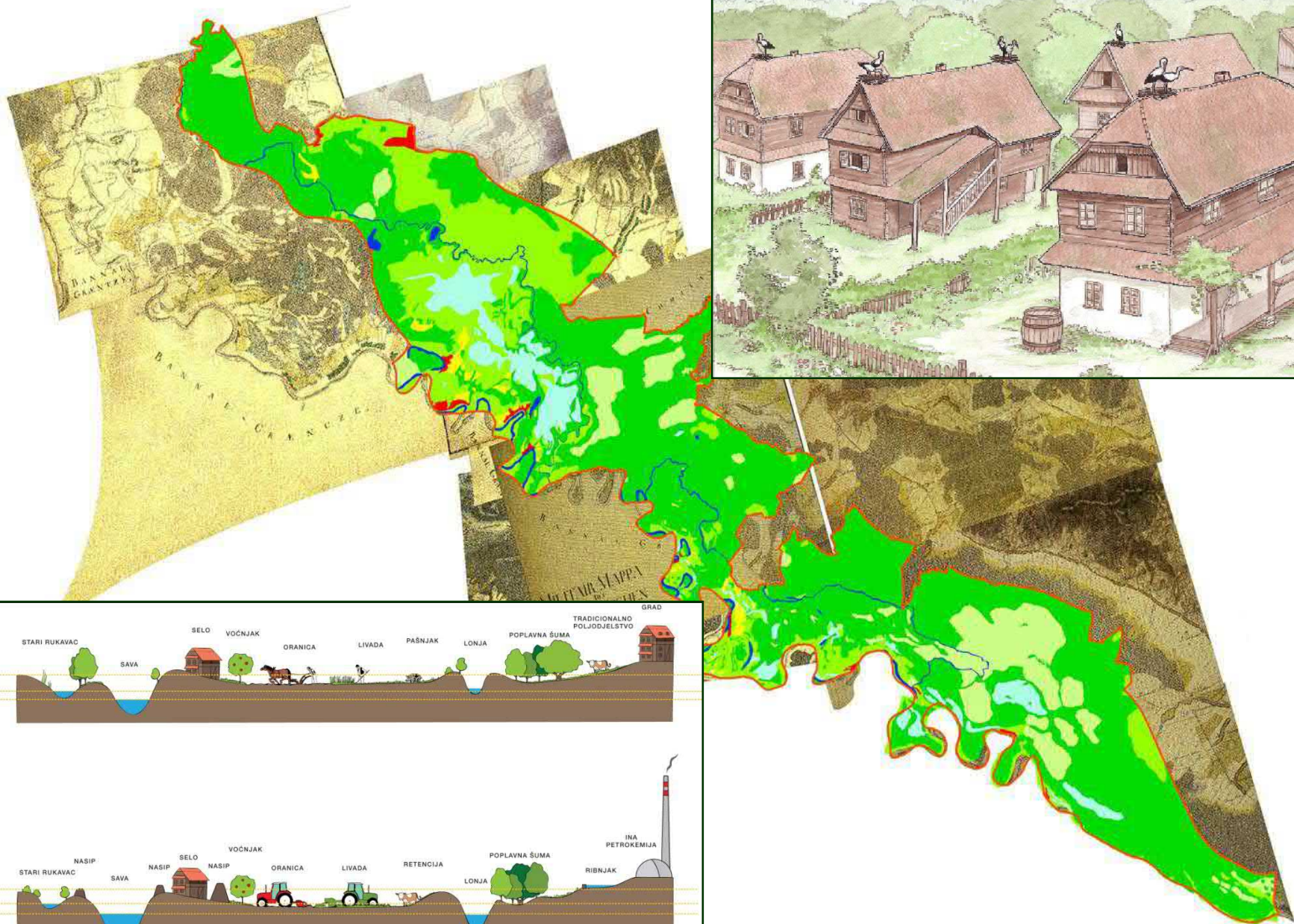
- Because of the exceptional arrangement of the river system, inundation may occur at any time of the year
- Indirect flooding caused by backflow





Adaptation to Flooding – A Cultural Keystone Process



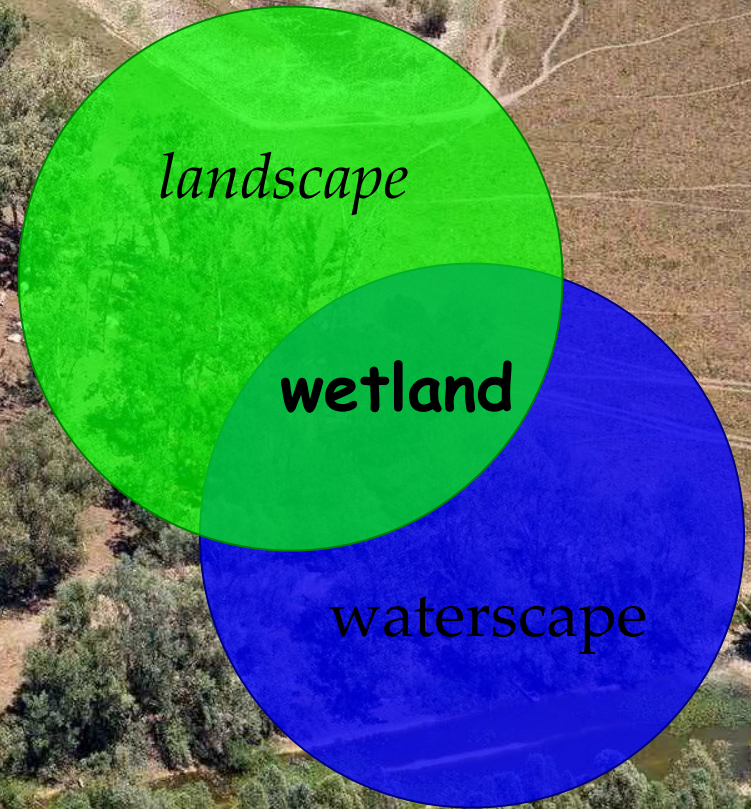


- It is here where the White Stork attains the greatest nesting success ever recorded in the literature



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

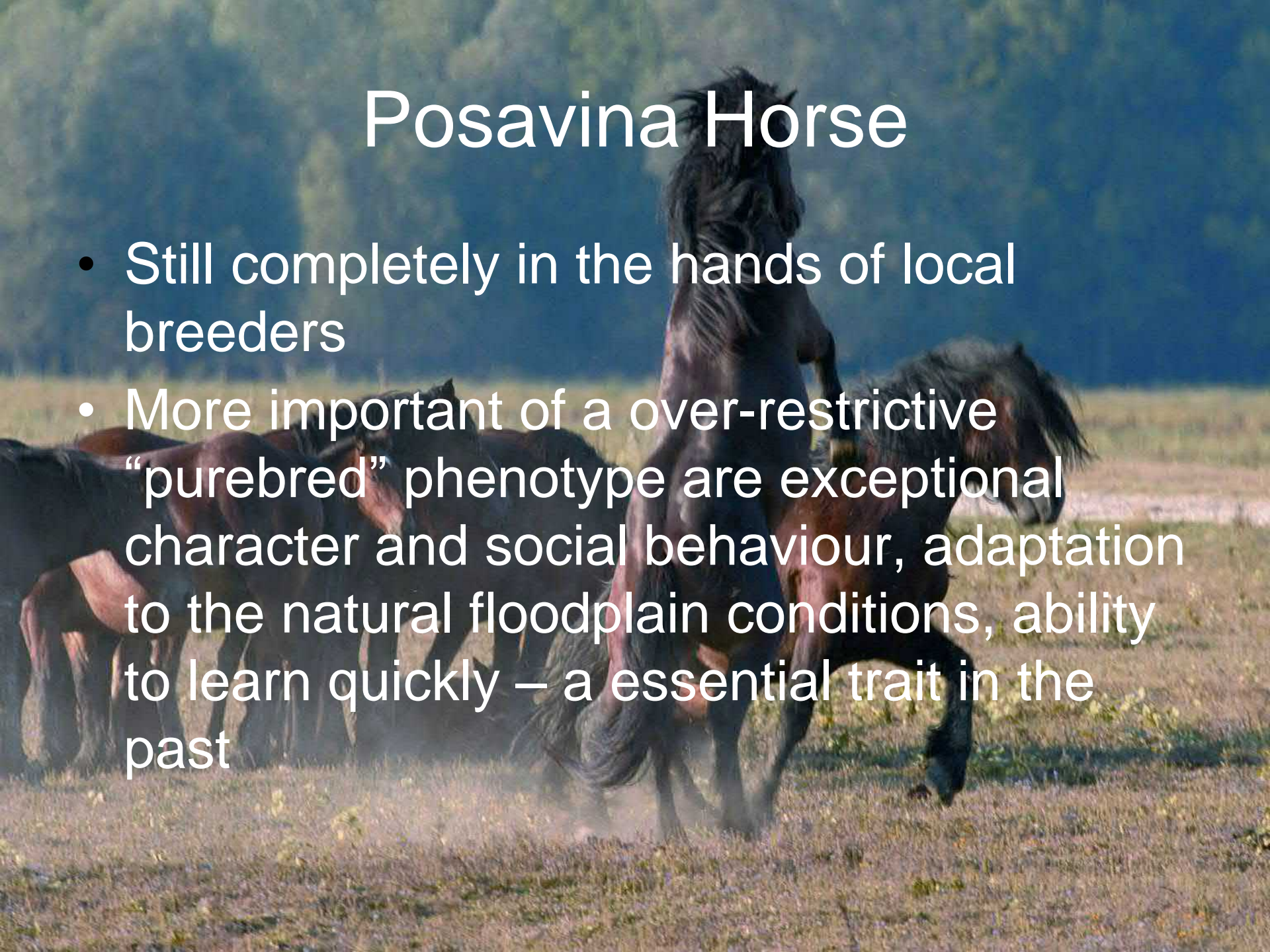


Basic Forms of Pasturing

- The commons (*gmajna*): occupy the area on the great flood-labile 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 completely 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

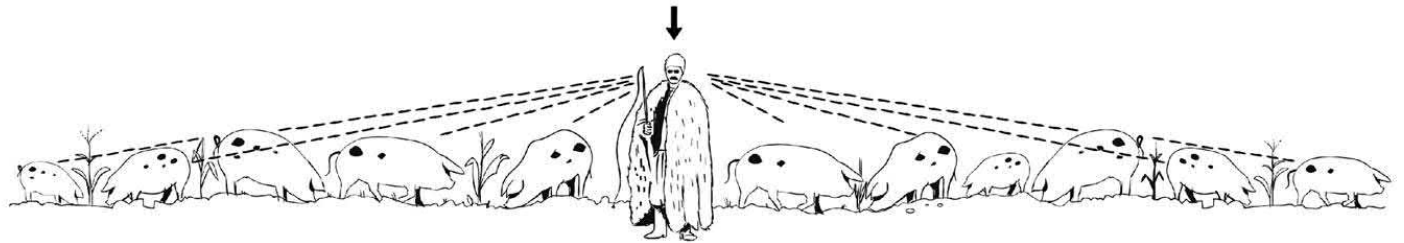
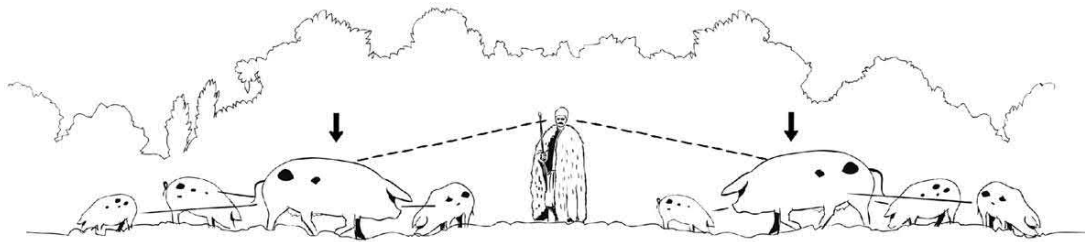


Turopolje Pig

- 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
 2. Traditional knowledge
 3. Critical number for commercial use



Herd- and *Jato* Management

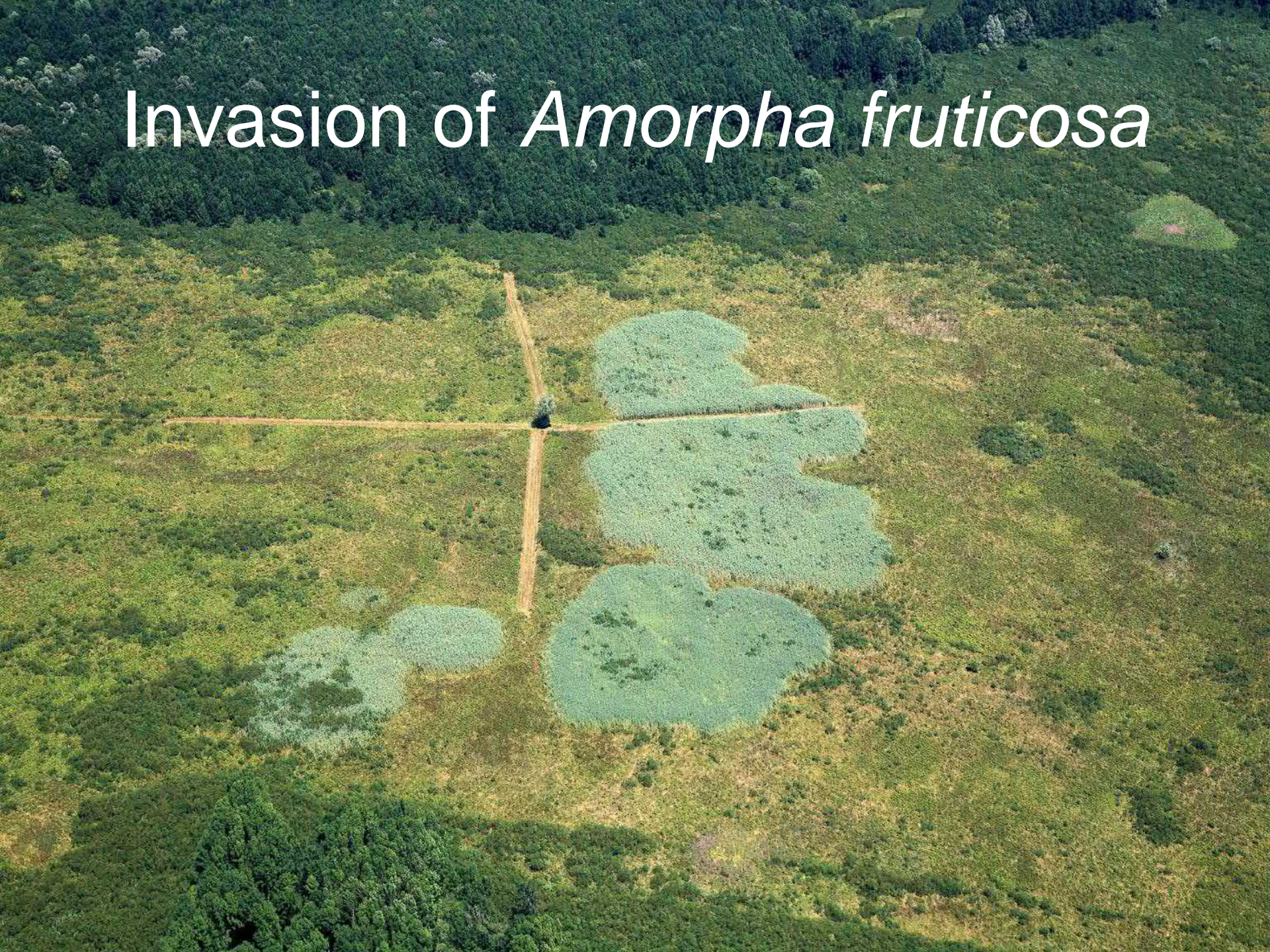


Pig Pasture

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



Invasion of *Amorpha fruticosa*

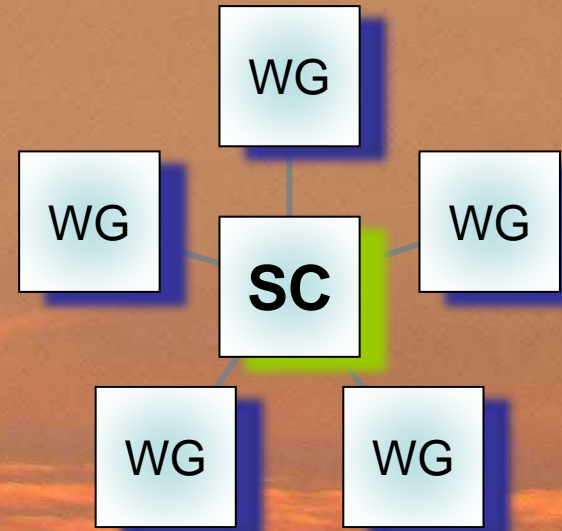
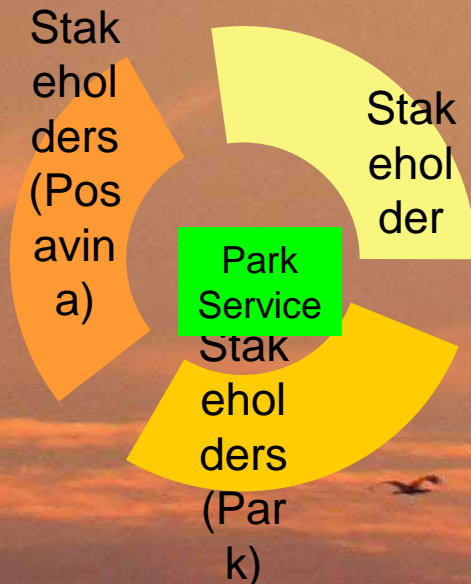


Slavonian-syrmian Grey Cattle

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



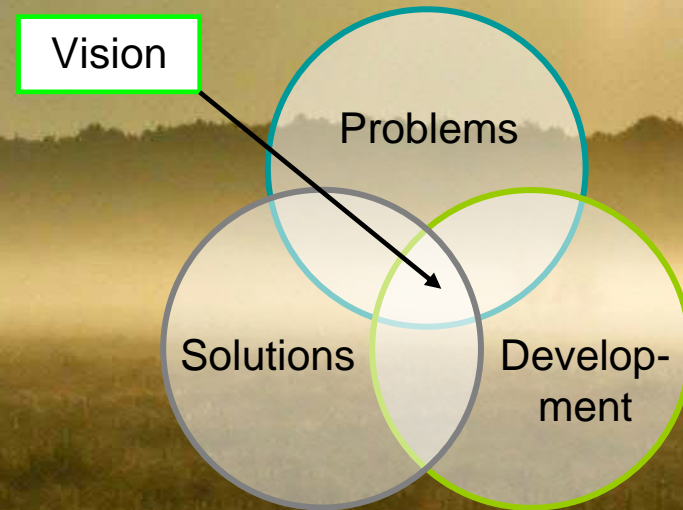
Towards Integrated Management



- ✓ Stakeholder analysis
- ✓ Establish appropriate structures
- ✓ Learn appropriate techniques of integrated management
- ✓ Learn the stakeholders' languages
- ✓ Ensure the feed-back of information

Finding a mutual vision and creating a dispersion zone

- Identify existing problems
- Elaborate possible solutions
- Give guidance for further development
- Establish joint practical work



Identifying the “integrity sphere”

