



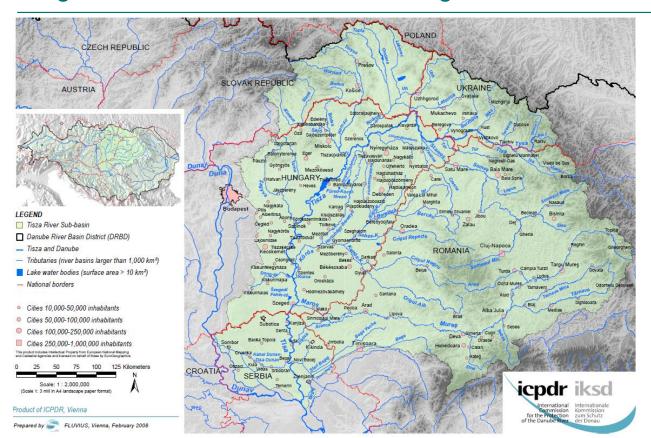
## The objective is not only biodiversity conservation

Identify, create and test practical examples of market based mechanisms that can generate new income streams while contribute to biodiversity conservation.





## The Tisza river sub-basin Largest sub-basin of Danube, ecological corridor







# Mismanagement (of land and water) and climate change have led to the deterioration of floodplain ecosystems





## Why does invasives matter for communities and business?

Habitat&biodiversity loss and fragmentation

Vanishing traditional land use practices and livelihoods

30% of the active floodplain is covered with invasive shrubs

Reduced flood capacity due to increased hydraulic roughness Increased land management costs











## Video





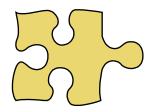
## Stakeholders: find the shared value

#### Conservation



Biodiversity Less invasives

#### Local communities



Jobs Income

### Water authorities



Better flood retention Less roughness

#### **Energy sector**



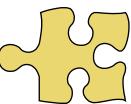
Reliable biomass quality and supply Low risk biomass Local supply

### Municipalities

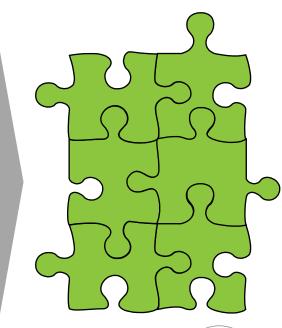


Cheap energy supply
Job creation/maintenance
New income
Nice environment

#### **Farmers**

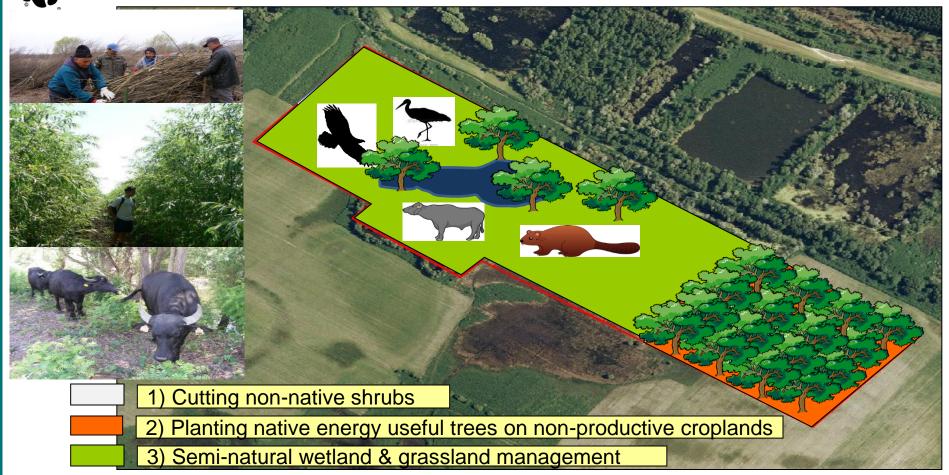


Additional income sources Lower land use costs





## Market value of biomass > Invasives to energy





## Biomass production and energy generation

Preparation 0,5 year Operation 2/20 year Investment <u>0,5 year</u> Design **Permits** Funding Implementation Operation Sales (✓) **(√**)

Biomass production

Energy generation



## Multiplied benefits for economy, people and nature







30,000€ saved cost annually



100 ha floodplain restored/better flood capacity



60,000m3 gas replaced annually



450kW installed renewable



## Before... After...









### **Conclusions**

- Don't give the invaded land to someone who just cuts the invasive plants and disappear. This is not a one off business. Cutting Amorpha one time will increase the problem!
- The investment costs are high in the beginning, but there's return.
- Think about the future and design the new landscape
- Make a contract!





## Thank you

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