

Workshop on WATER-FOOD-ENERGY-ECOSYSTEMS NEXUS ASSESSMENT IN THE SAVA RIVER BASIN 4-6 March 2014, Zagreb, Croatia

Ecosystem perspective



Natural values

- There is no such large river in Europe with such natural river dinamic in its middle course, like Sava has.
- Lowland floodplain forests and hystorical border landscape are still forming undiscovered natural and cultural values of Croatia, but they go much beyond national level of importance. (4 Ramsar sites)
- There is a mosaic of natural and man made landscapes stands there as monument, a reminder, of how lowland rivers used to look in Central Europe.

WWF

Ecosystem service

Lonjske, olle and near by wetlands are of strategic importance for Croatia and the neigbours as the best response to the climate change - wide floodplain areas are mitigating the impacts, in terms of flood waters retention and moist retention during droughts.

- Carbon dioxide capture by wetlands and floodplain forests.
- Oak forests very important economically
- Huge tourism development potential
- All these gives us service and goods, and has its longterm monetar value.



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We have to be aware that any intervention in this system may cause negative impacts and deterioration of the ecosystem; and loose of this values.

 Improvement of navigation, hydropower development, flood control measures - all these need to be assessed together to evaluate cummulative impact and ensure holistic approach to the river management.

Mitigation measures are not always possible and effective



Conclusion

- There is no assessment of other river functions such as the capacity of floodplains to retain floodwaters and its economical value, carbon storage, income from wood, tourism, hunting – it needs to have economical value – to be put in the cost-benefit analysis formulas
- To be sure that all FIPs are "working with nature" there is a need for hydrological and morphological models developed as a prerequisite (sediment balance)
- All infrastructure development objectives are to be re-discussed based on the studies conducted and environmental objectives formulated with stakeholder involvement, as a pert of WFD implementation.



Thank you for your attention

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