

Nature conservation and restoration in the new EU countries Romania and Bulgaria



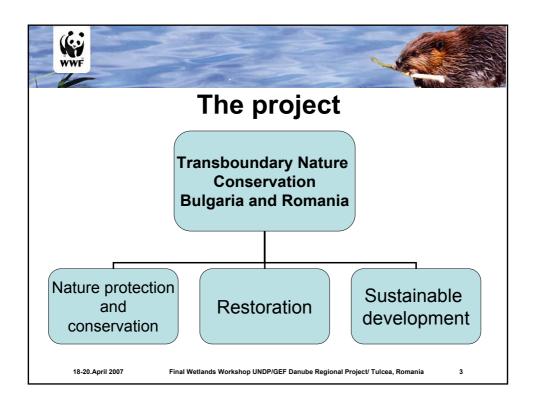
DBU Deutsche Bundestiftung Umwelt /
German Federal Foundation for Environment

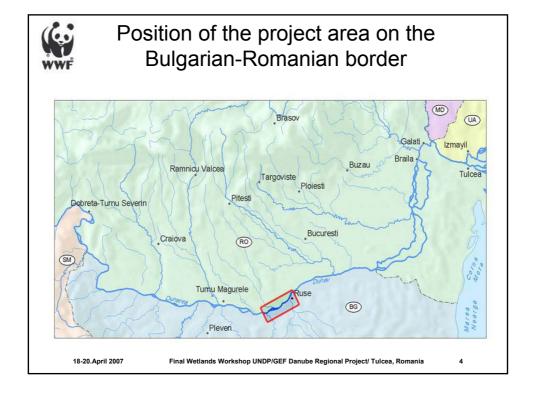


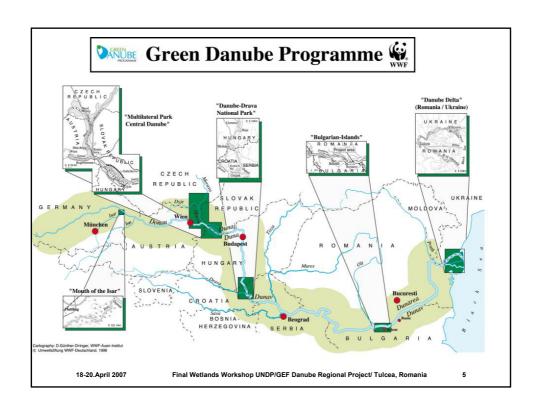
WWF Germany

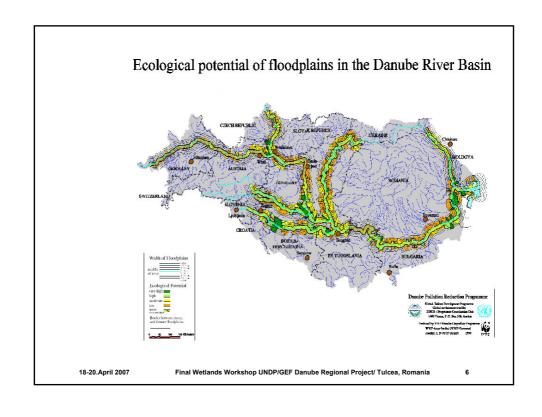
Partners

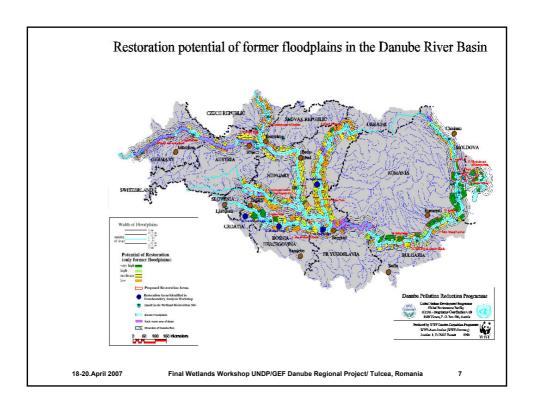
- National Offices in Bucharest and Sofia of the WWF International-Danube Carpathian Programme
- Danube Delta National Institute Tulcea
- · Romanian Ornithological Society
- National Museum of Natural History "Grigore Antipa"
- · Environmental Protection Agency Giurgiu
- Natural Park Russenski Lom
- Bulgarian Nature Parks Directory
- · Other local and regional authorities











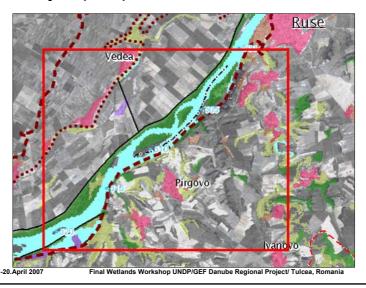
The Lower Danube Green Corridor

A large transboundary initiative for an ecological functioning biocorridor, a network of

• protected area, planned protected area, restoration area



Overview of the pilot area of the PHARE Cama-Dinu Project (2004) between Danube km 521-500



PHARE Cama-Dinu Project (2004) between Danube km 521-500, Tasks

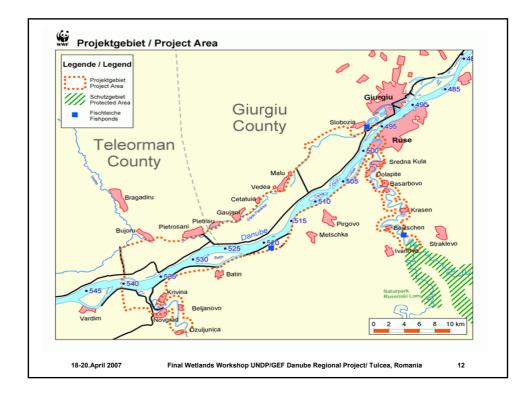
- 1. Inventory of species and habitats/ determination of biodiversity Screening of chemical parameters in surface water, suspended solids, river sediments and mussels
 - Documentation for Cama-Dinu as a protected area
- 2. Monitoring Cama-Dinu area:
 - Species and habitats
 - microbiological parameters in surface waters
 - chemical parameters in surface waters, suspended solids, river sediments and mussels
 - hydrological parameters
 - air quality
- 3. Species and habitats Lower Danube Green Corridor:
 - Inventory of significant species and habitats
 - Identification of protected area and preparation of documentation
 - Identification of the main reconstruction area

Identification of the main restauration in the recent and the old / morphological floodplain:

- Abandoned Fishponds
- Agricultural polders
- Water body systems (connectivity)
- Abandoned industrial area
- Abandoned hydrotehnical construction area
- Artificial forests
- Artificialised landscape area

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Villages on the terrace border with still existing traditions











Bulgarian tributaries of the Danube : Lom and Jantra







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Main project objectives / activities 2006-2008 in Bulgaria & Romania

Bulgaria

- Enlargement of the Nature Park
 Russenski Lom from the actual park border to the mouth of Lom into the Danube
- Feasibility study of the restoration of the fishponds on the Lom river and on the Danube/Metshka)
- Designation of a protected area on the Lower Jantra/tributary of the Danube

Romania

- Elaboration of a Management plan for the protected area Cama-Dinu
- Analysis and check of possibilities for the enlargement of the PA
- Feasibility study for restoration of the water course system Vedea/ Gârla Pasarea, meadows at Saica and habitat improvement on the cliff
- Feasibility study for restoration of abandoned fishponds Slobozia

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Project activities in 2006-2008

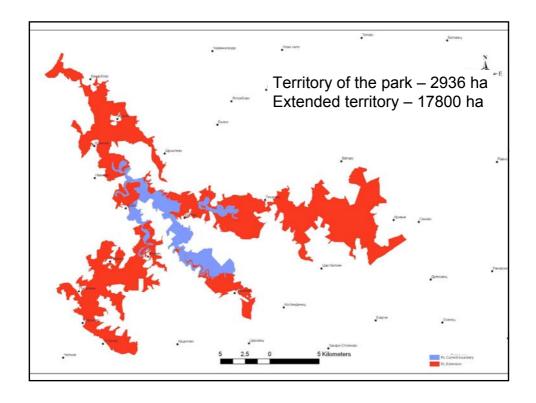
 Study the possibilities of the extensification/ change of land use in the old floodplain (Romania) between the flood protection dyke and the terrace border in a selected section/ community

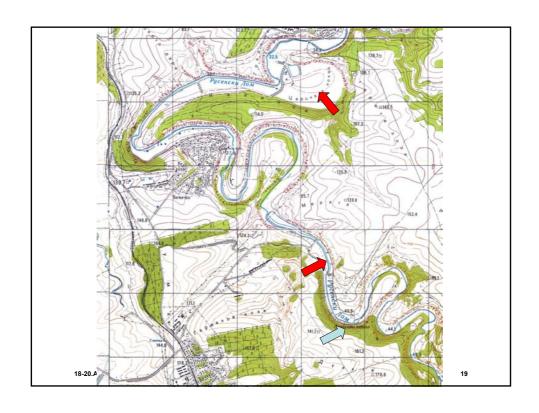
Socio-economic study with interviews of local people \rightarrow concept paper for sustainable rural development and nature protection

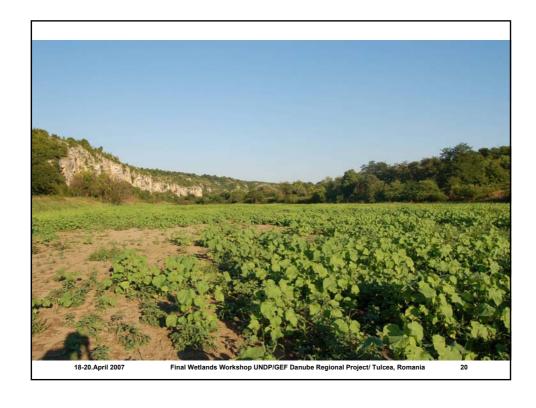
- Training, capacity building and monitoring (Bulgaria & Romania):
 - Evaluate management of protected areas in the project area/Green Corridor and develop recommandations
 - Training in conservation management, restoration and ecological monitoring
 - Training concerning financing of NATURA 2000 from structural fonds

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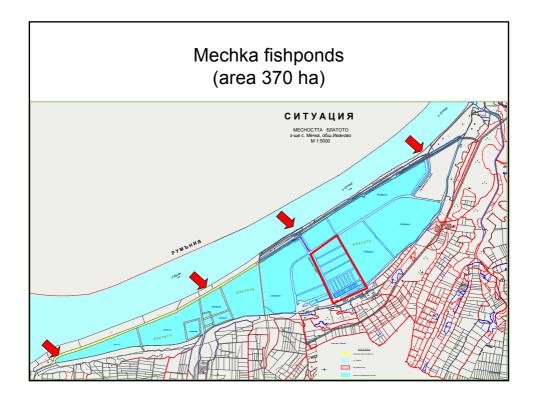
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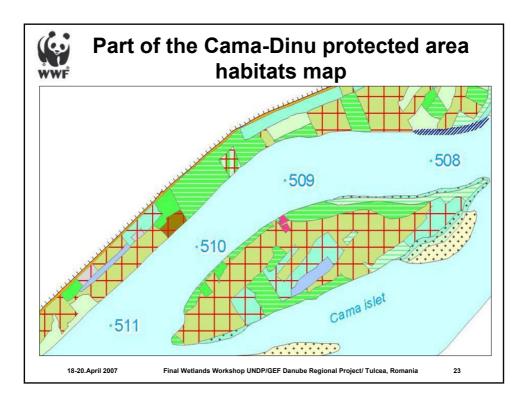


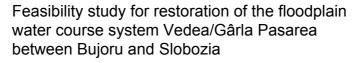


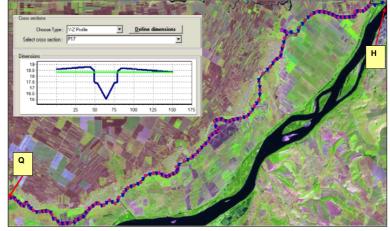








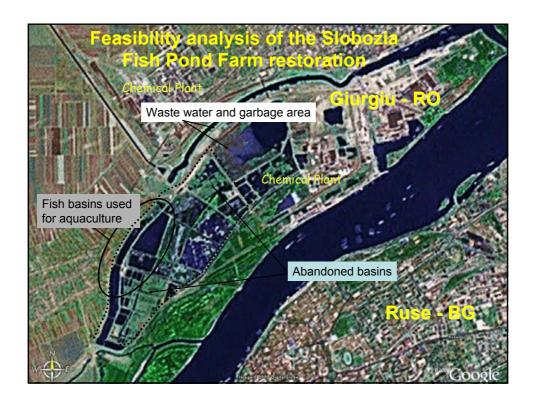


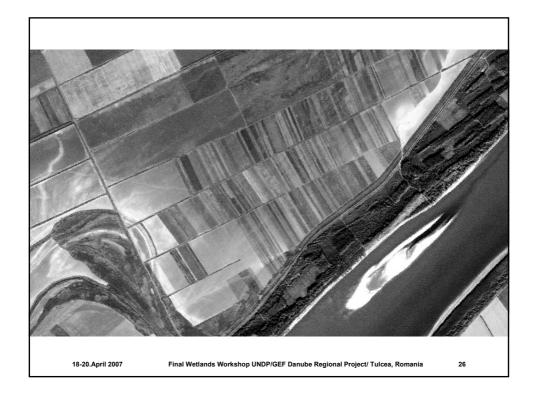


Hydraulic model for Pasarea Stream (Danube Delta National Institute Tulcea)

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Requirements for the success of the project

- Knowledge of functions and ecosystem functioning: interaction river / floodplain, changes (hydrologiocal, climatic, man made etc.) in the system and their consequences
- · Present status of the environment including:
 - Hydrological regime, morphodynamics, sediment balance, water quality (WFD),
 - biodiversity (FFH / NATURA 2000 species, habitats)
 - Land use (agriculture, forestry) incl. traditional activities if still exists: former land use
 - other activities in the area
- Analyse of the actual socio-economic situation of the local people (needs, possibilities and constraints)

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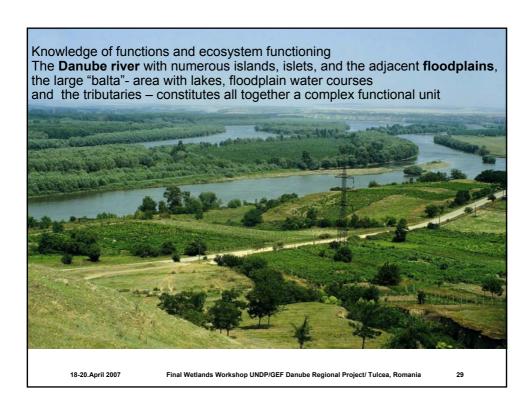
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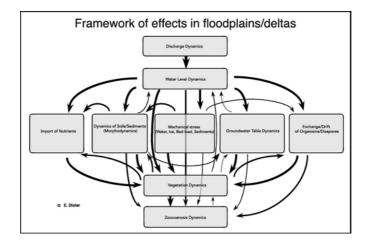
Requirements for the succes of the project

- To create understanding for quality of the environment, functioning of the ecosystem, the values of the area and for an ntegrated management and sustainable development
- To inform authorities and interested user groups/stakeholders about advatages of changes in land use and restoration, benefits, possibilities for use of structural fonds and sustainable amangement of ressources
- To involve in an early planning phase the local and regional authorities, stakeholders and to assure regularly information and exchange in different planning phases (information workshops, meetings)

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Knowledge of functions and ecosystem functioning



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Present status of the environment: Biodiversity and habitats

In the recent floodplain (river with islands and area between river bank and floodprotection dyke):

- Old branches, oxbow lakes
- Temporary dry flood channels
- Free area for pioneer settling
- Softwood forest of different age classes
- Relicts of hardwood floodplain forests on natural high river bank levees (partly with high structural diversity)
- Relict area of extensive used floodplain meadows

In the old floodplain:

- · Remained wetlands
- Water courses
- · Old flood channels
- Fallow lands
- Grasslands
- · Agricultural lands
- Terrace border with loess
 cliffs
- Villages on the terrace with traditional rural character

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Present status Biodiversity in the project area









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Glossy Ibis

White Heron







Bee-eater

White tailed eagle

Pelicans

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The Black Stork have the breeding places in the calcareous rocky caves of Lom valley





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Bat: Myotis myotis



Bat: Rhinolophus hipposideros



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Otter

Foto A. Kranz



Types of habitats (FFH-Directive Natura 2000) Freshwater habitats

Standing waters

3150: Natural eutrophic lakes with Magnopotamion- or Hydrocharition-type vegetation



Running waters

3260: Watercourses of plain to mountain levels with the Ranunculion fluitantis and Callitricho-**Batrachion vegetation**



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Habitat types (FFH/ Natura 2000)

3270: Rivers with muddy banks with Chenopodion rubri pp. and Bidention pp. vegetation





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Habitat types (FFH Natura 2000)

Mosaik of:

Semi-natural tall-herb humid meadows

6430 Hydrophilous tall herbaceous fringe communities of plains and of the montane to alpine levels

6440 Alluvial meadows of river valleys of the Cnidion dubii mesophile grasslands

6510 Lowland hay meadows/ meadows of low altitude





Habitat types (FFH/ Natura 2000)

Forests of temperate Europe

91 E0 *Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)



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Habitat types FFH/ Natura 2000)

91 F0:

Riparian mixed forests of Quercus robur, Ulmus laevis and Ulmus minor, Fraxinus excelsior or Fraxinus angustifolia along the great rivers (Ulmenion minoris)





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Habitat types FFH/ Natura 2000

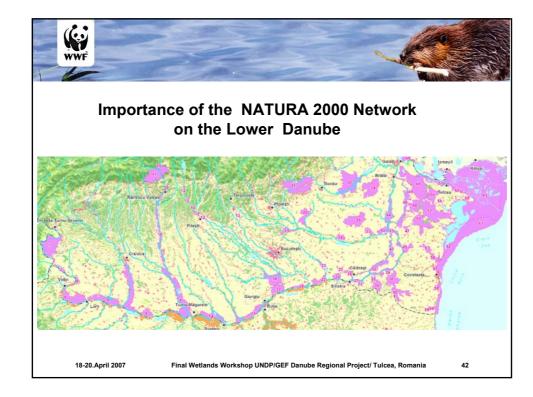
Mediterranean decidous forests

•92A 0 Salix alba and Populus alba galleries (this type of forests exists in the Danube floodplain and have transition character between typical mediterranian gallery-like riparian forest and these of the Lower Danube)



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Socio-economic analysis, pressures, threats

Social

- Age structure of population, migration tendences of young people,
- Conception that rural environment is unfavourable for development
- Lack of infrastructure,
- · only small local initiatives

Political

- Lack of communication between local leaders and local councils
- not enough active role of local administration concerning the management of public area

Economic

- · dominance of agriculture of subsistence
- monopol in land concession of large comercial societies
- Small diversification of economic activities.
- · No new equipment, poor investion, fragmentation of fields
- unclarified owner ship situation
- Fishery only with special permission (not free for locals)

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Key principels for sustainable development

- Diversification of activities
 – esential for the possibilities
 to ensure diverse sources of income and distribution of
 riscs
- · Associations of producers to facilitate different activities
- Attraction of investments for turisme, valorification of local products, handicrafts;
- Identification of "early promotors" for changing the thinking and introduction of new alternatives for the local people
- Evaluation of the development of diverse schemes of subventions and grants for local people and administration (dossier for accession of funding sources, instruction, information etc)

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The project as a contribution for IRBM

- The project with integration of nature conservation, restoration, socio-economic analysis and development concept can be a model to be applied in other similar sites, a "puzzle stone", as part of o network for IRBM
- Restoration of the connectivity of Gârla Pasarea a measure for improvement of Water quality (WFD), reactivation of traditional fishing and contribution for improvement of flood protection
- The network Natura 2000 offers the instruments for nature protection, ressources use and a sustainable development of the area
- Change of land use is a possible way for more friendly agriculture in favour of the local people

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