

Creating a Network of Knowledge for biodiversity and ecosystem services to support decision making

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#### **Demonstration Case Conservation**

Green infrastructure issues





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**Current planning status** 



Stefan Schindler, Michaela Kropik, Thomas Wrbka (University of Vienna)

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#### Involve requesters in question setting

#### 1.) Two science-policy conferences

- June 2011: Meeting of the European Nature Directors in Hungary,
   Balatonfüred
- November 2011: "Planning for biodiversity" Conference of the Polish Presidency, Warsaw

#### 2.) Contact with potential requesters

- Marco Fritz (DG ENV, B2 Biodiversity)
- François Wakenhut (DG ENV, head of B2 Biodiversity)
- Szylvia Bősze (DG ENV, B2 Biodiversity)
- Stefan Leiner DID (DG ENV, head of B3 Nature)
- Gabriele Obermayr (BMLFUW, Federal Ministry Austria)
- Chris Walzer (FIWI, scientist, cordinator project ECONNET)



#### Conservation case: GREEN INFRASTRUCTURE



→ Topic "Green Infrastructure": because most suitable for the "conservation case" of the six targets of the EU BD Strategy 2020

### **EU Biodiversity Strategy 2020:**

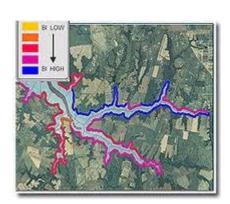
"By 2020, ecosystems and their services are maintained and enhanced by establishing **Green Infrastructure** and restoring at least 15% of degraded ecosystems"



## Conservation case: GREEN INFRASTRUCTURE resulting subtopics



- 1) Existing networks of protected sites and to what extent they can be seen/used as Green Infrastructure?
  - prioritization of restoration efforts
  - improvement of functional flyways
  - improvement of the coherence of N2K







# Conservation case: GREEN INFRASTRUCTURE resulting subtopics



### 2) To which respect does technical infrastructure meet the requirements of nature conservation?

- approaches of greening "grey" infrastructure
- which measures of greening specifically combat fragmentation?







## Conservation case: GREEN INFRASTRUCTURE resulting subtopics

- 3) How does Green Infrastructure contribute to multifunctional land-use and well balanced delivery of ecosystem services?
  - adaptation to climate change & improvement of ecosystem resilience
  - biodiversity benefits of multi-functional floodplain management







#### Conservation case: GREEN INFRASTRUCTURE



#### **Research question**

"Impact on biodiversity of multi-functional floodplain management compared to conventional flood control measures?"

#### policy context

- DG Environment / Marco Fritz involved in the decision on the topic
- EU Biodiversity Strategy 2020
- Habitats Directive, Water Framework Directive, Nitrogen Directive,
   Directive on the assessment and management of flood risks, Ramsar
   Convention



## Conservation case: GREEN INFRASTRUCUTRE Systematic Review

### PICO-Structure of proposed question

- Population (statistical): floodplains
- Intervention/Exposure multi-functional floodplain management
- Comparator Conventional flood control measures
- Outcome Indicators of change in levels of biodiversity





## Conservation case: GREEN INFRASTRUCUTRE <u>Systematic Review</u>

#### Input from subject experts is needed regarding the following:

- Definition of the intervention and the comparator.
- Focus on a specific aspect of biodiversity (genetic, species, ecosystem)?
   Which indicators of biodiversity to consider?
   Both positive and negative impacts on biodiversity should be considered.
- Is there sufficient literature to make the review viable and informative? There seems to be a high proportion of grey literature related to this topic!
   How can we use the NoK to efficiently obtain this grey literature?!







### Conservation case: GREEN INFRASTRUCTURE Scope science and potential methods: <u>"grey literature"</u> & projects

- "River Restoration in Europe. Practical Approaches"
   (Proceedings to the conference on river restoration)
- Labe-Elbe: Adaptation to flood risk in the Elbe river basin
- LIFE Project Drava River Basin: Benefits for nature conservation and water management
- Virginia: using a GI approach to conserving and managing Natural areas, working Landscapes, open space, and other critical resources (Benedict, Allen, McMahon)
- Boston: Emerald Necklace provides flood mitigation (Fabos, 2004)



### Conservation Case: <u>Implementation of the NoK prototype – first results</u>



#### Call for nomination of experts on the case study topic

- broad call, asking about 80 selected knowledge-hubs
- only 6 replies

#### Second call (reminder) + call to additional experts from the Rubicode project

- contacted about 50 more specific experts
- invited them or asked for further contacts
- got about 30 replies

#### Invited about 50 experts to join our workshop

14 confirmed

#### Goals for the Workshop on the 23<sup>rd</sup>/24<sup>th</sup> of May 2012

- final adjustment of the question
- hints for further experts/hubs, grey literature & key papers
- discussion of the draft protocol and search strategy





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### Thank you for your attention!

