



ACTIVE measures on WETLANDS for decreasing nutrient load in the Baltic Sea

Southern Finland - Estonia Sub-programme
Priority 1: Safe and healthy environment

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1. Preparation

- Agriculture is the largest anthropogenic source of nutrients (N and P) enhancing eutrophication of the Baltic Sea
- Constructed wetlands are recognized as a powerful tool to retain nutrients that have leached from arable land.
- Large and thus efficient wetlands are still rare due to their high investment costs.
- The efficiency of small wetlands could be increased? – idea by WWF Finland (wetland projects)



Wetlands



Närvänen & Jansson 2007, MTT
Agrifood Research Finland

Efficiency is function of: e.g. eroded soil material, length of water flow path and water flow rate

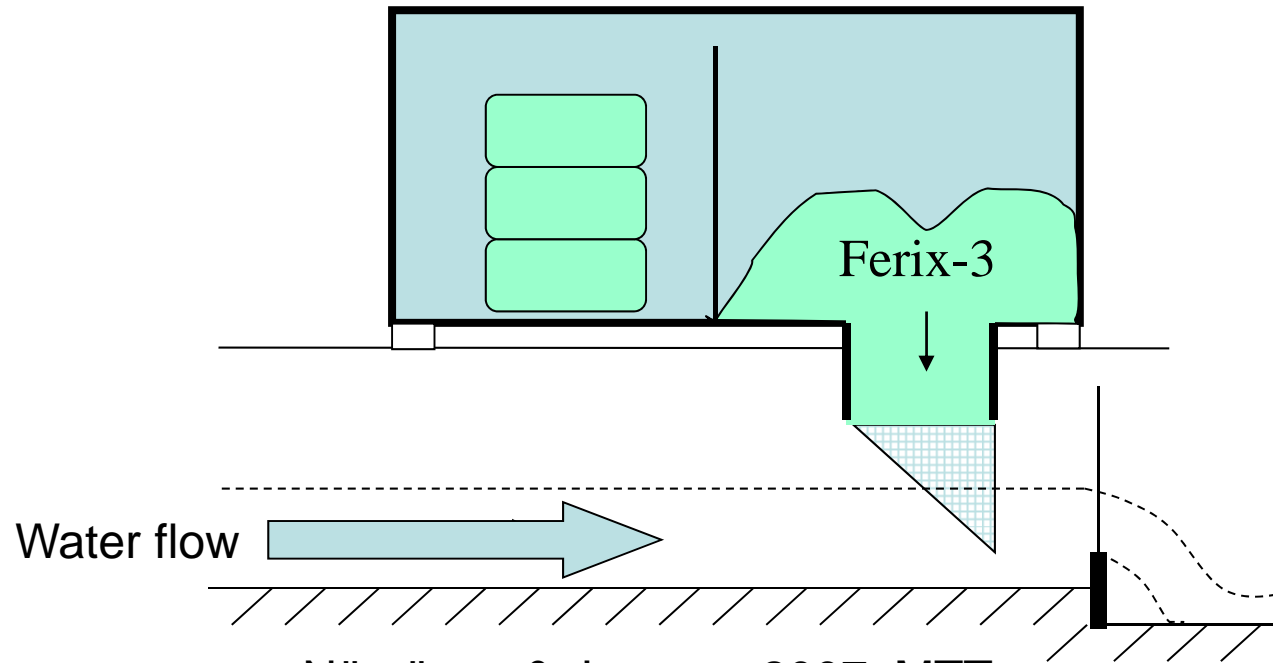
Wetlands retain leached nutrients and eroded soil (from agricultural fields)

Wetlands increase biodiversity

The area of wetland should be >1% compared to the catchment area in order to retain nutrients and soil efficiently



Example for active treatment: chemical precipitation



Närvänen & Jansson 2007, MTT
Agrifood Research Finland



2. Partnership



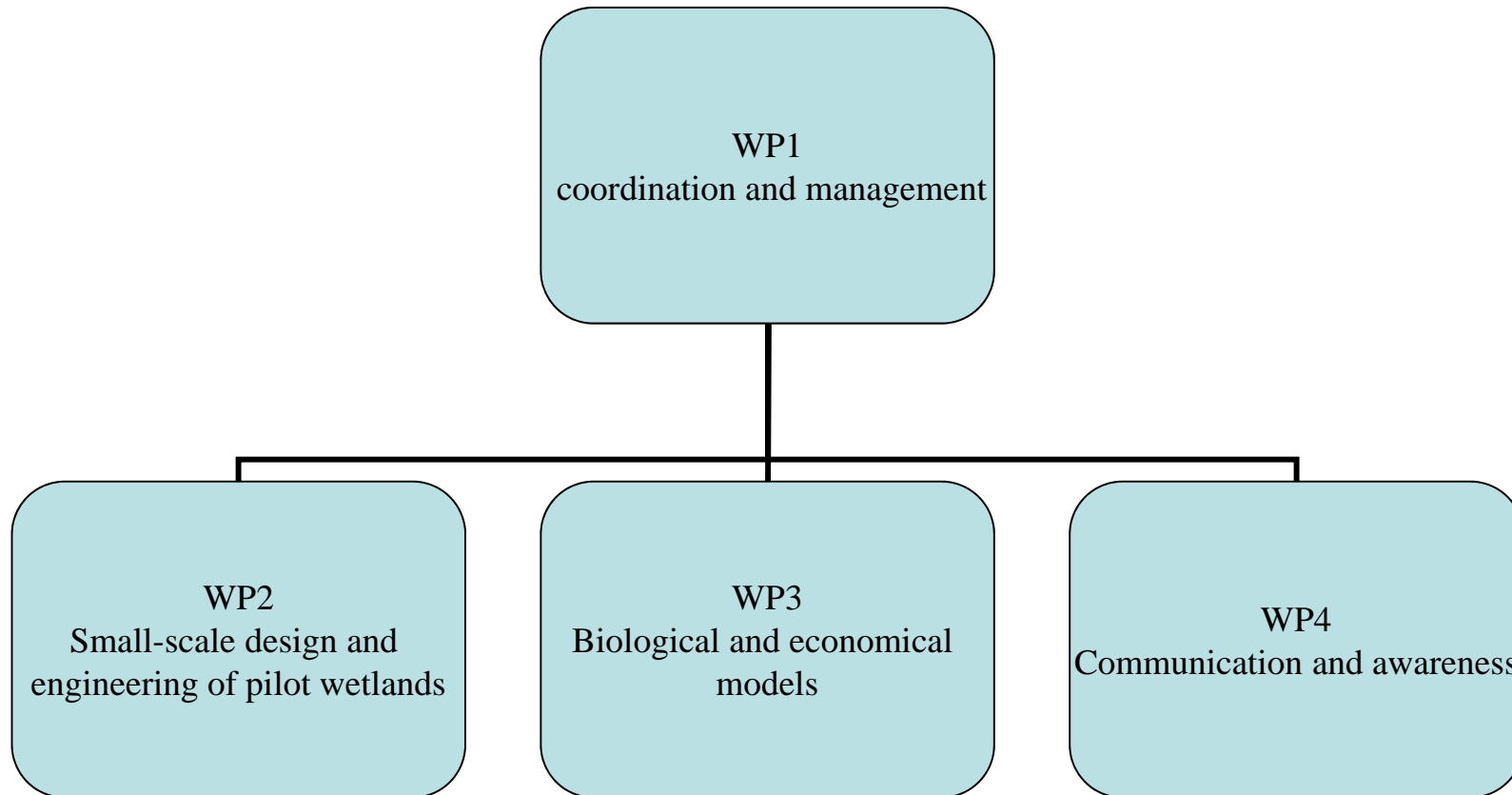
- WWF-Finland (wetland activities, idea)
- MTT Agrifood Research Finland (agriculture->coordination, chemical treatment)
- Finnish Environment Institute and Turku Univ. of Applied Sciences (wetland activities)
- Estonia: MTT->Estonian Univ. of Life Sciences; WWF Finland ->Estonian Fund for Nature
- Sweden and Latvia ?; no direct connections, aim to Southern Finland – Estonia subprogramme to keep project more consistent (and smaller)



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3. Project activities

Nov. 2009-Oct. 2012



3. Project activities

WP2: Pilot studies and treatments established for wetlands both in Finland and Estonia

-e.g.chemical treatments, vegetation and sediment removals

In WP3, watershed models of different complexity will be used to assess the wetland effects on a wider scale.

Economical calculations and modelling are performed in order to assess to costs of wetland construction and maintenance compared to the benefits in nutrient retention.

WP4: Communication and awareness of wetlands is enhanced. Also co-operative transnational development of wetland restoration, conservation and construction is enhanced between Finland and Estonia.

4. Further development



Integration of wetlands in other measures and other regions to reduce agricultural load to Baltic Sea

Co-operation with Baltic Compass (Baltic Sea Region-INTERREG IVB project)

Enhancement (subsidy programmes?) of active measures on wetlands if they are found feasible



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5. Six advices

Yes:

- 1) Communication with Joint Technical Secretariat
- 2) Knowledge of partners
- 3) Clarify co-financing and eligibility of partners

No:

- 1) Do not leave open items in application (failure of 1st call)
- 2) Do not leave too many things in the last days of call (other tasks, sick leave etc.)
- 3) Do not try to do all by yourself, lead partner should distribute tasks already related to the application





CENTRAL BALTIC
INTERREG IV A
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2007-2013



Thank you for attention !



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