Adaptation for nature in Dutch fen meadows; reflections from stakeholders on Green Blue

Veining

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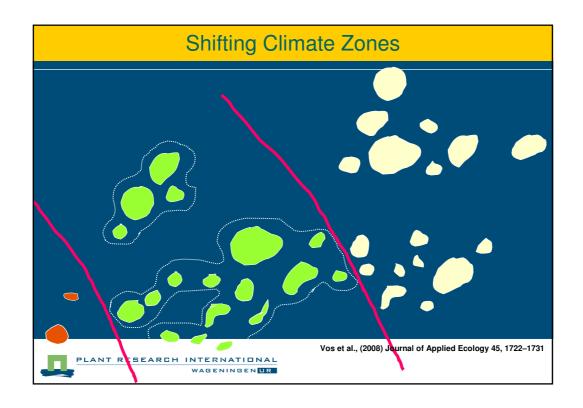
Session: Competing Claims and Land Use in Deltas under Climate Change

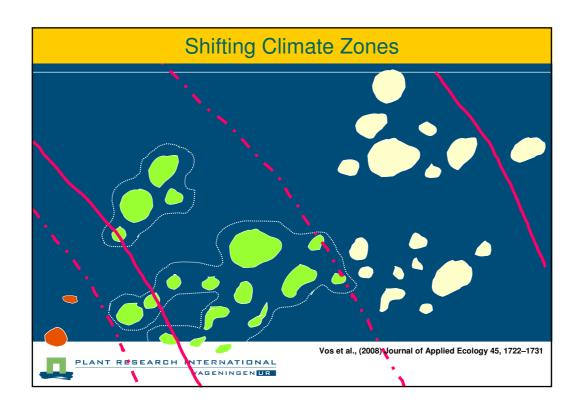


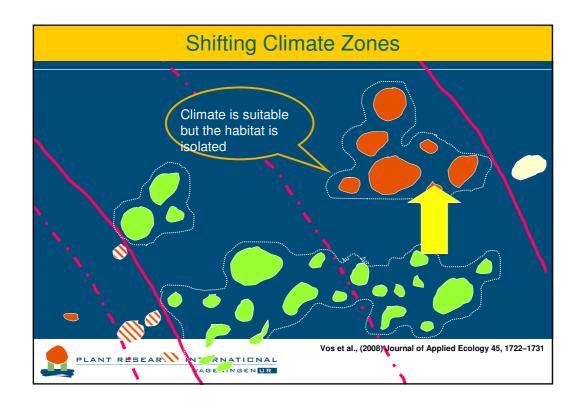
Nature and Adaptation to Climate Change

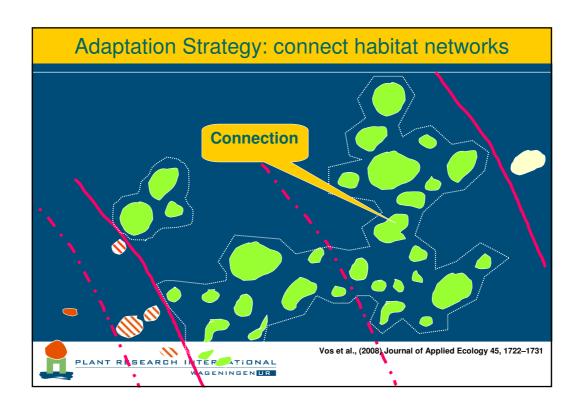
- Impacts
 - Species extinction by shifting climate zones
 - Species extinction by more extreme events
- General adaptation strategy:
 - Connect, improve and enlarge habitat

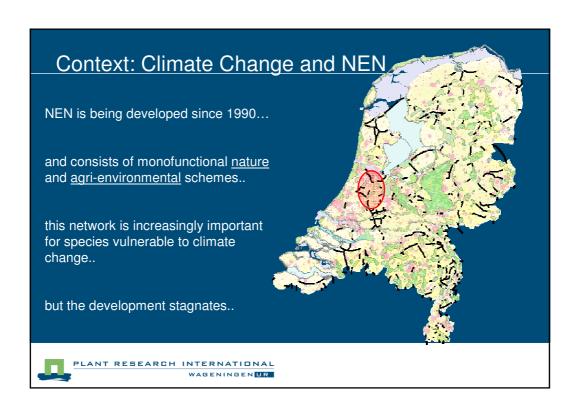












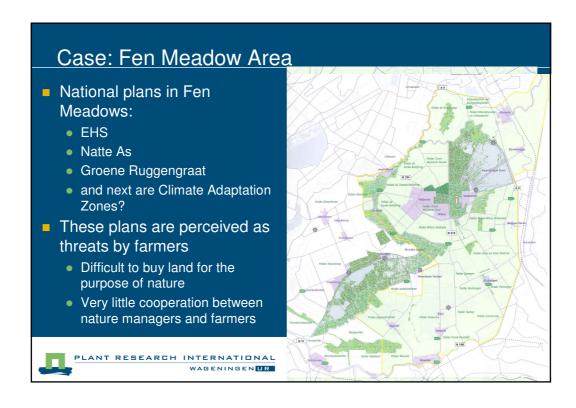
Case: Fen Meadow Area

- Open Landscape
- Heterogeneous peat (oxidation) and clay soils
- Grassland and dairy farming
- Meadow bird protection
- Open water
- Water quality issues
- Cultural history (famous field layout)
- Close to large cities (recreation)





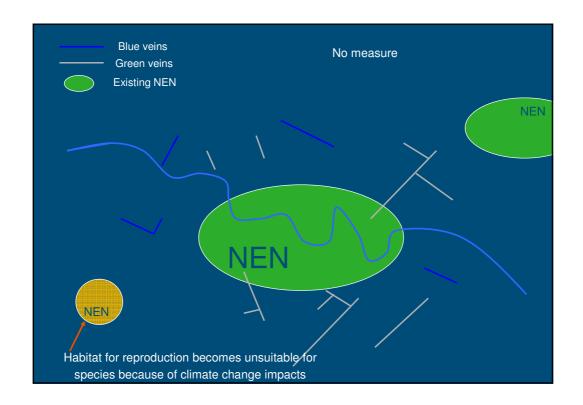
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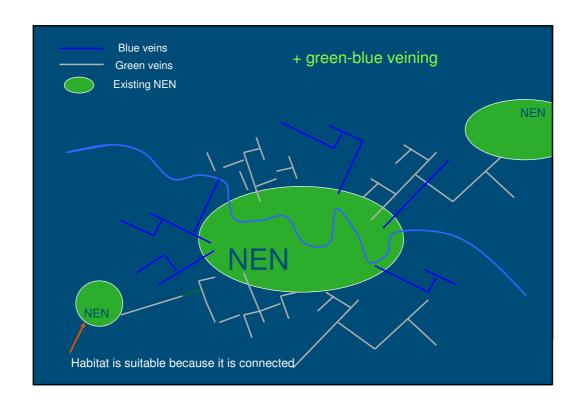


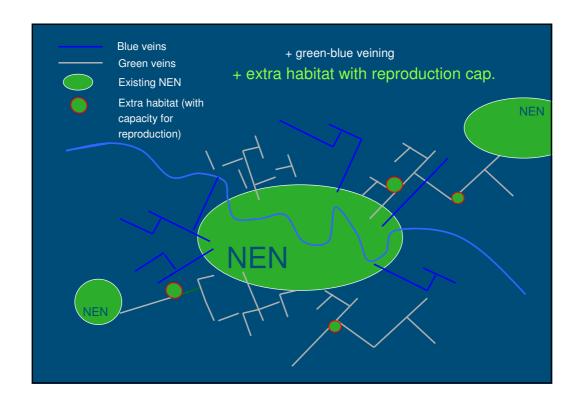
Green Blue Veining: a concept for adaptation?

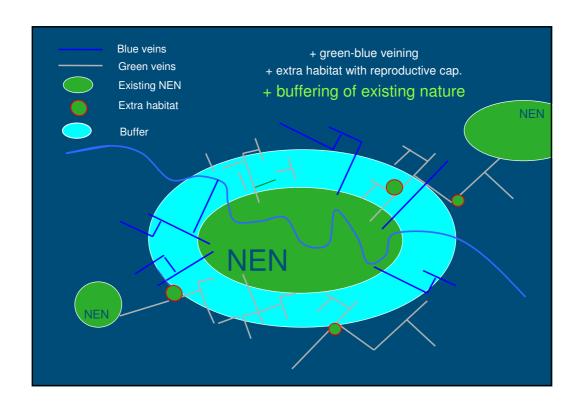
- Network of existing landscape elements
 - useful for species
 - coherent network
- Possibilities in multifunctional landscapes?
 - expert knowledge and literature on the functioning of GBV
 - focus group discussions on willingness and feasibility of stakeholders











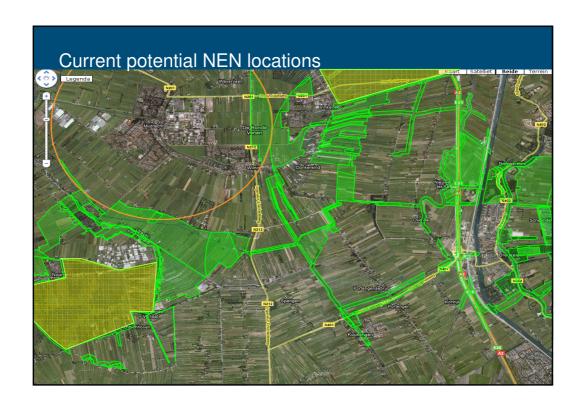
Focus Group discussion: three types of

measures

- Green Blue Veining
 - Natural ditch banks
 - Hedgerows
 - Field margins
- Extra habitat
 - Water surface elements
 - Alternative management of environmental conditions
- Buffering NEN area
 - Alternative surface water levels







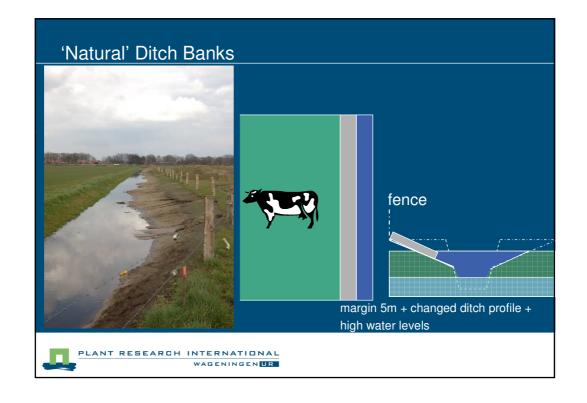


Natural Ditch Banks

- wet margins along ditches
- new profile of ditch banks
- no fertiliser application and no use of herbicide
- fence ditches (to give plants a chance to flower)
- re-introduction of species in ditch banks
- alternative mowing regime
- nature along water infrastructure







Results

- In focus group discussions land owners and other stakeholders rate the possibilities for GBV positive
- GBV as an adaptation option for nature is a concept that is not easily applied because the adoption rate needs to be high for closed networks
- Farmers are willing to implement GBV if production loss is compensated and if the GBV fit farming practices



Concluding remarks

- Large mitigation potential in Fen Meadows
- New CAP is a chance to revise payments for environmental services for to goals on adaptation and mitigation
- Agronomic knowledge needed for local adaptation!
- Threats and benefits: invasive species and pest control
- How do current farms develop in different socioeconomic contexts?



