



Landscape management for functional biodiversity



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IOBC
OILB



WPRS / SROP



History

- Installed after GA in Ascona as Study Group
- Became Working Group in 2003





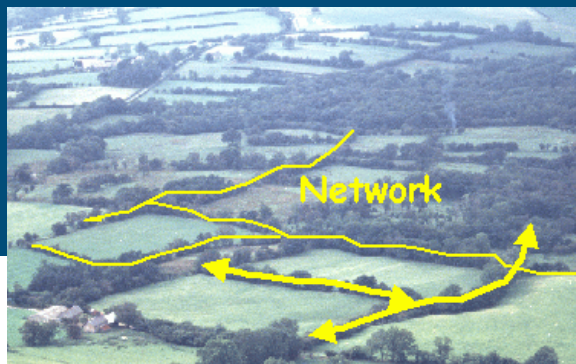
Aims

- To demonstrate opportunities for enhancing ecosystem services in cropping and farming systems arising from a landscape perspective
- To represent an interdisciplinary platform for exchange and discussion of research results
- To foster approaches based on research across scales and across disciplines



Relevant Issues

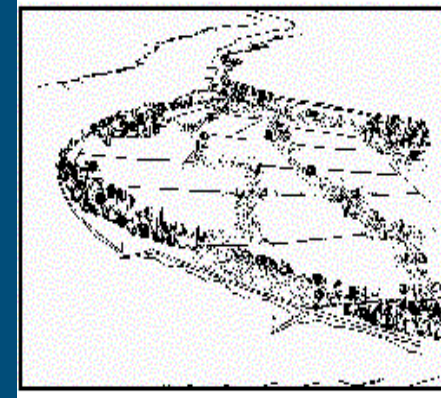
- Landscape ecological basis of functional biodiversity
- Case studies of functional biodiversity
- On-farm or in-region development of agri-environment schemes
- Experiments, surveys, model-based explorations





Relevant Scales

Region / landscape



Farm

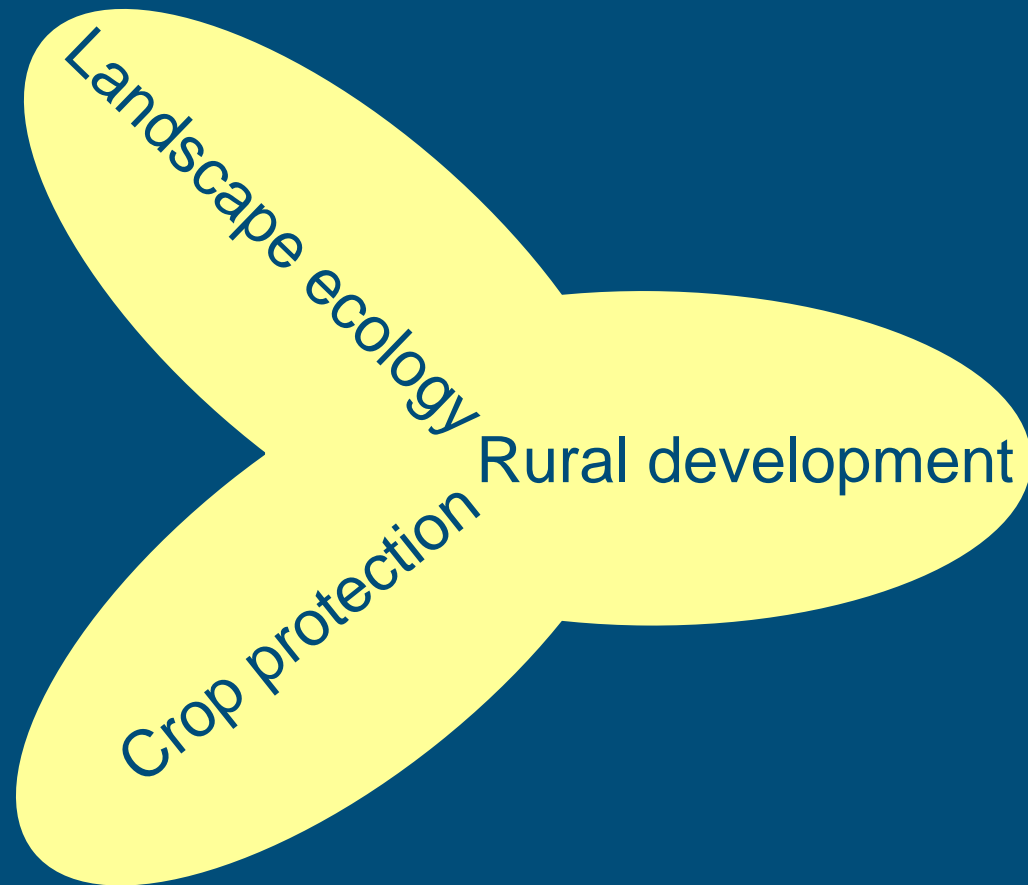


Field





Niche





Activities

- One meeting: Bologna, May 2003
- Proceedings (May 2003)
- Meeting May 2005 postponed to May 2006
- Venue: Reckenholz, Zurich, Switzerland



Developments on functional biodiversity (1)

Strong increases in empirical evidence

- Field-boundary interactions
- Field-field interactions
- 'Fine-tuning' of functional insect biodiversity
- Increasing attention for above-below ground interactions (not only insects!)
- Important reviews: Boller, Häni & Poehling; Gurr, Wratten & Altieri; Tscharnke et al.; etc.



Developments on functional biodiversity (2)

Strong increase in spatial modelling work

- Insect behaviour
- Pathogen and seed dispersal
- GMO spread (~pollen)
- Farm and landscape evaluation

Increased opportunities for extrapolation



Developments on functional biodiversity (3)

Implementation

- Field margin 'packages'
- Meadow bird protection schemes
- Landscape conservation schemes

Questions about scale of measures!



Working Group foci 2006+

Implementation

- Country comparisons
- Opportunities for piggy-backing agri-environment schemes
- Farmer experiences
- Economics: survival of measures after the subsidies stop

Research

- Measuring spread
- Understanding spread; modelling



Short term targets

Meeting Zurich, May 2006

Pro-ceedings ready before the meeting

Invited European comparison agri-env schemes

Next meeting for 2008



Thank you to the Scientific Advisory Board

Barbara Ekbom (Uppsala)

Andreas Kruess (Goettingen)

Maurizio Paoletti (Padova)

Joop van Lenteren (Wageningen)

Andries Visser (Lelystad)

And for 2006 also

Bärbel Gerowitt (Rostock)

Giovanni Burgio (Bologna)

Peter Duelli (Zurich)

