

Ecological networks in the Alps – a response to climate change that will conserve biodiversity?

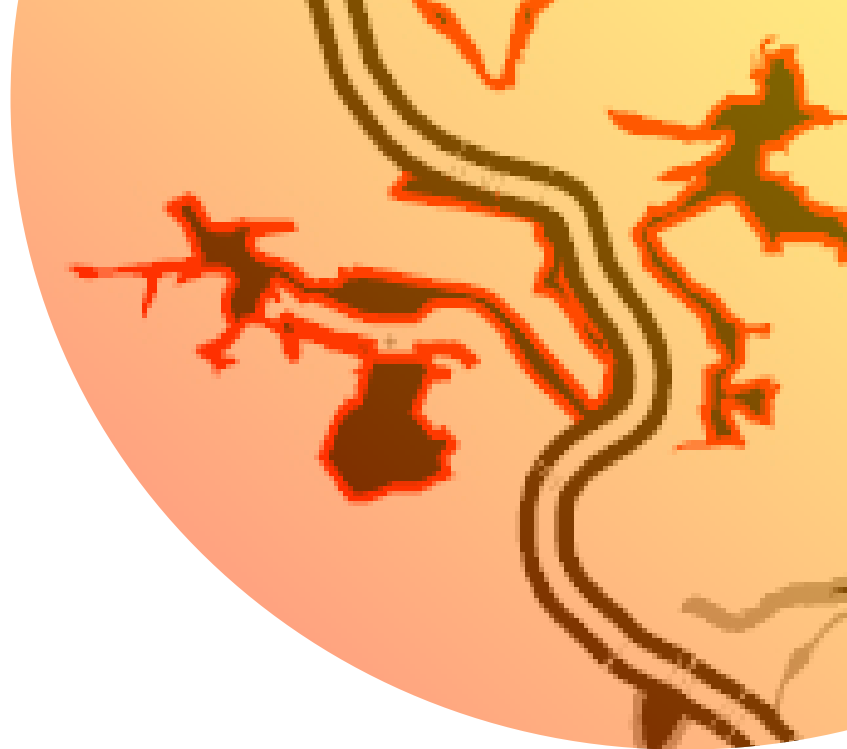
Nationalpark Berchtesgaden, ALPARC
15 Oct 2009, Berchtesgaden (D)

Introduction into Module 3: The role of protected areas – management and networking in the Alps

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Lectures in this module

1. Michaela KÜNZL, NP Berchtesgaden (D), Ferdinand LAINER, NP Hohe Tauern (A):
Contributions to an ecological network: Procedures and challenges in ECONNECT pilot regions
2. Patrizia ROSSI, NP Alpi Marittime (I) in partnership with NP Mercantour (F):
Special management measures for species: Local approaches within ECONNECT and the Continuum project
3. Daniela OBERLECHNER, NP Southern Tyrol (I), Lisbeth ZECHNER, NP Gesäuse (A), Angelika ABDERHALDEN, NP Swiss (CH):
Stakeholder participation: Public awareness raising strategies and simulation of future scenarios of alpine connectivity
4. Mateja PIRC/International Commission for the Protection of the Alps (CIPRA International) (FL):
Climate change and nature protection: Thinking one step forward! The CIPRA project cc.alps

Selected policy options for adaptation of conservation to CC

- Emphasise the conservation of ecosystem services for human societies
- Establish *management* monitoring (incl. wise use of conservation resources)
- Improve connectivity of PA systems
- Consider assisted migration and ecosystem design
- Consider CC scenarios when defining compensation measures
- Adapt best practice in land use to CC
- Plan scenario-based
- Apply adaptive & risk management
- Strengthen resilience/adaptive capacity of biodiversity
- Dynamise goals
- Select functional targets

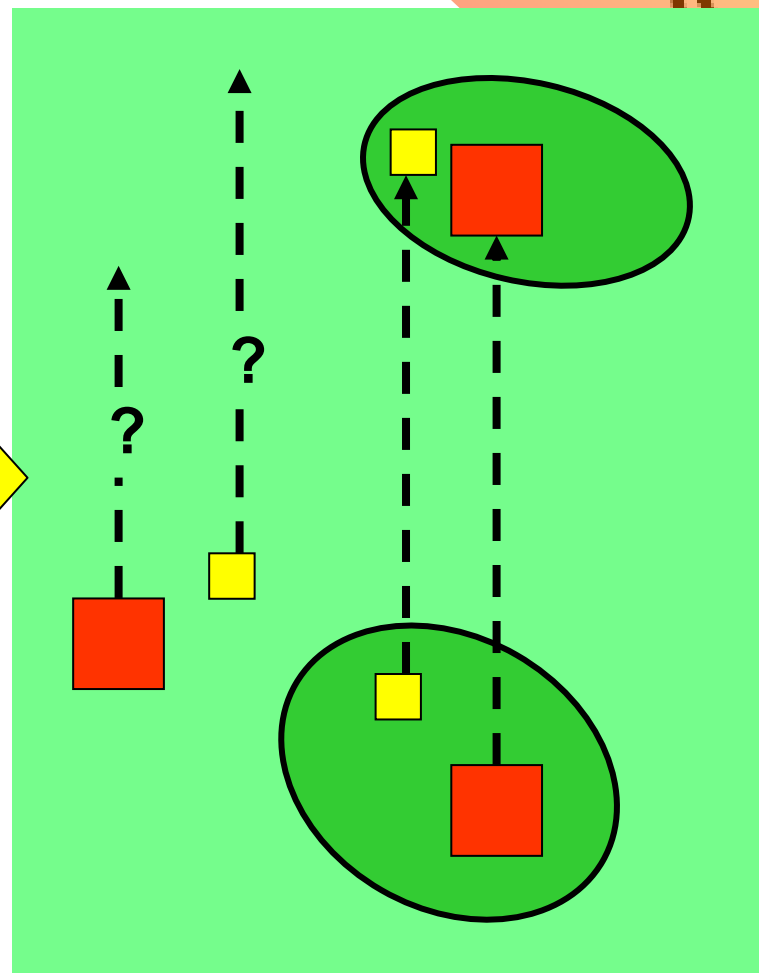
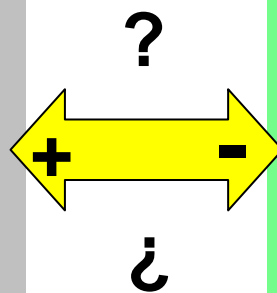
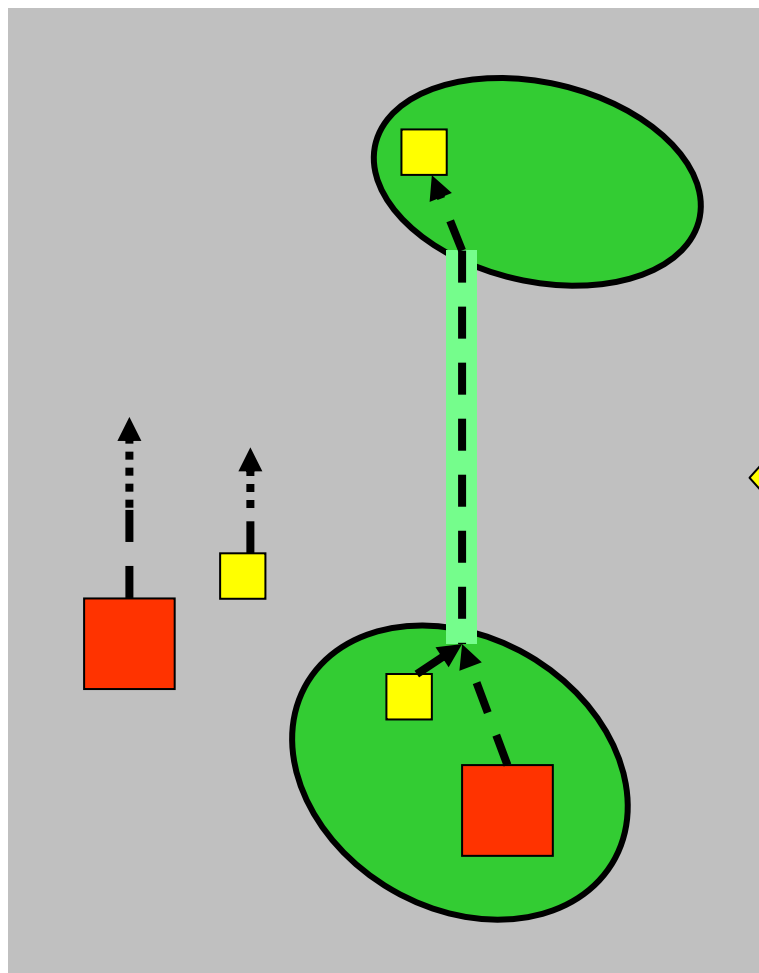
Strategic levels of PA management



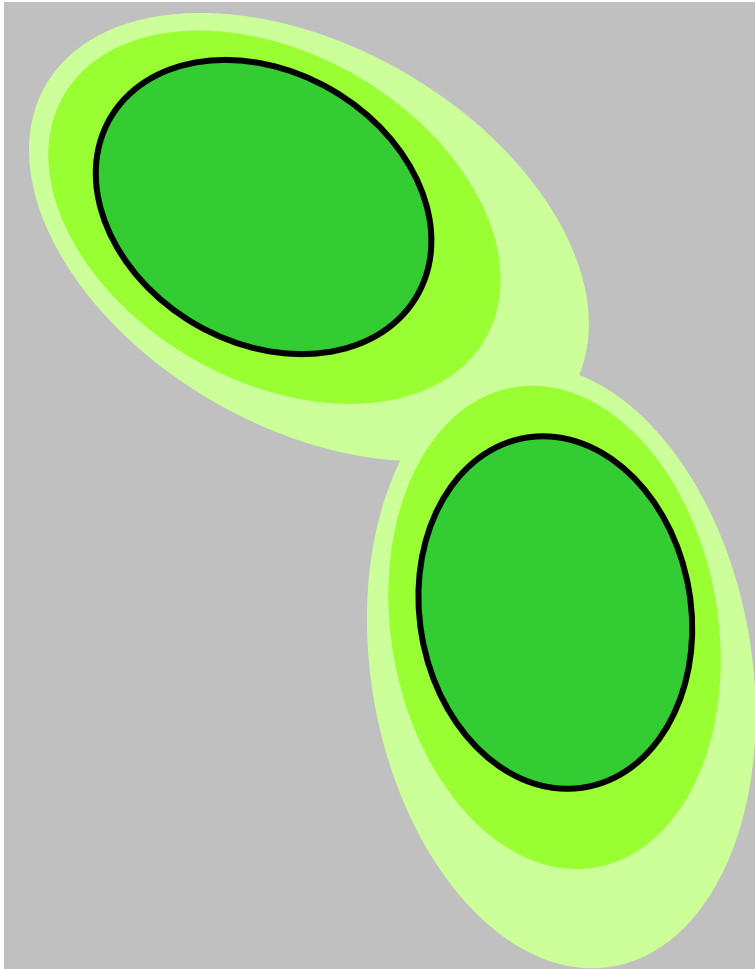
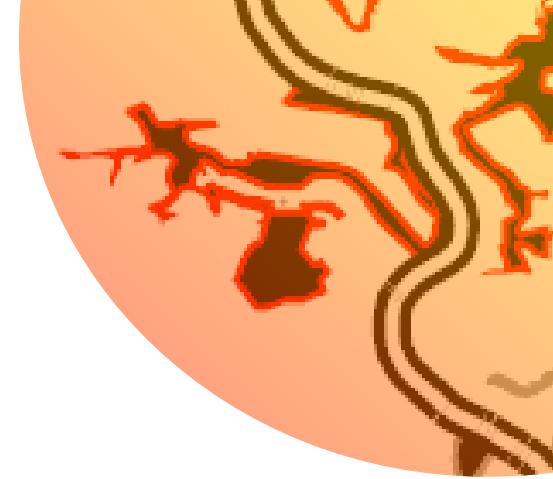
After: Ibisch & Kreft (2008), ANLiegen Natur 32: 1-23.

Creation/conservation of corridors

Improvement of habitat quality in the matrix

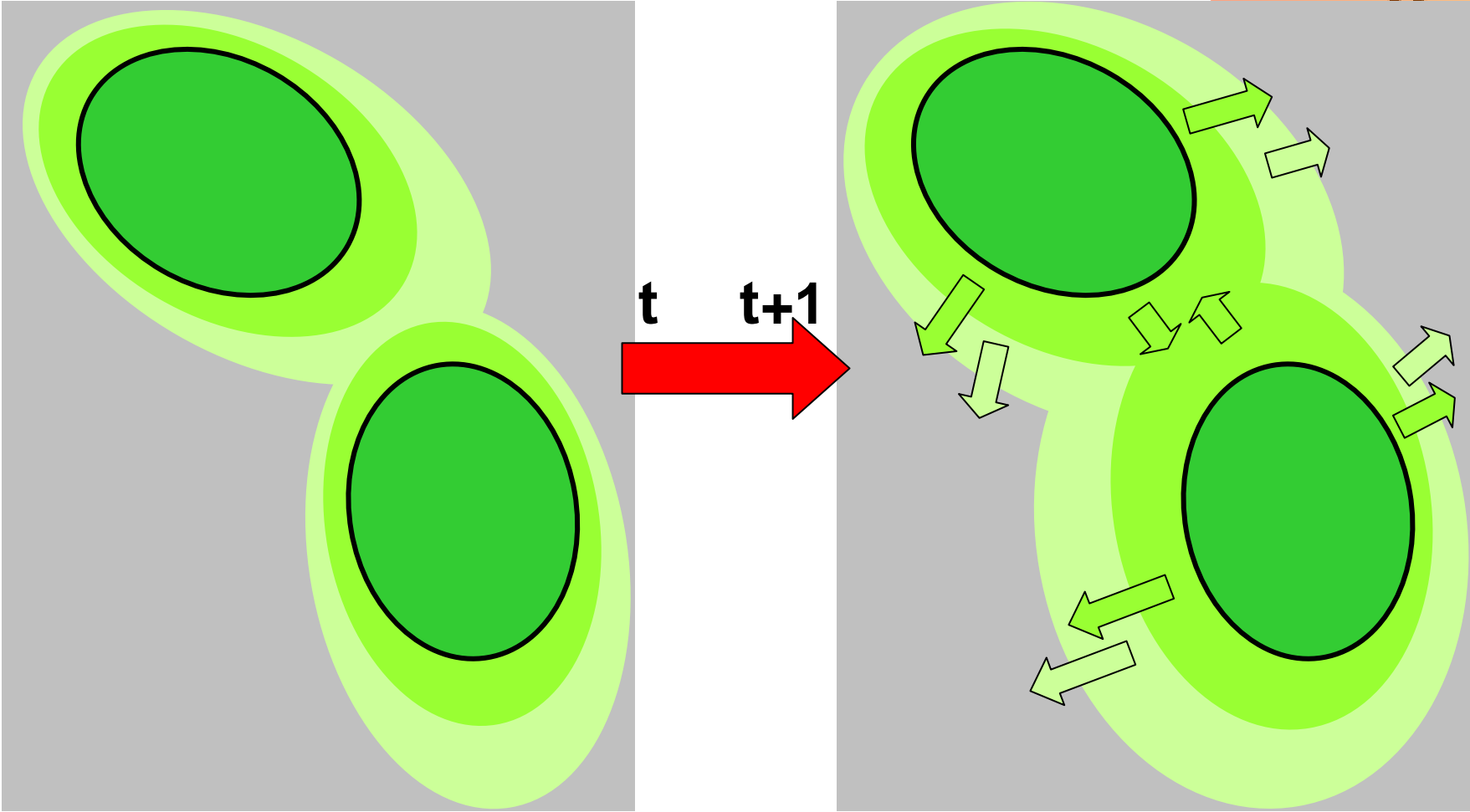


PA management



- Comparatively stress poor spaces serving as “havens”
- Particular importance of *large* PAs
- **PA as “crystallisation cores” of conservation of the entire landscape**

PA management



Strategic levels of
PA management

Project activities
according to strategic levels of
PA management

CONSERVATION

6. Communication

ECONNECT

**5. Monitoring,
control of success**

cc.alps

**4. Concrete conservation
measures & interventions**

Continuum

**3. Political &
legislative framework**

ECONNECT

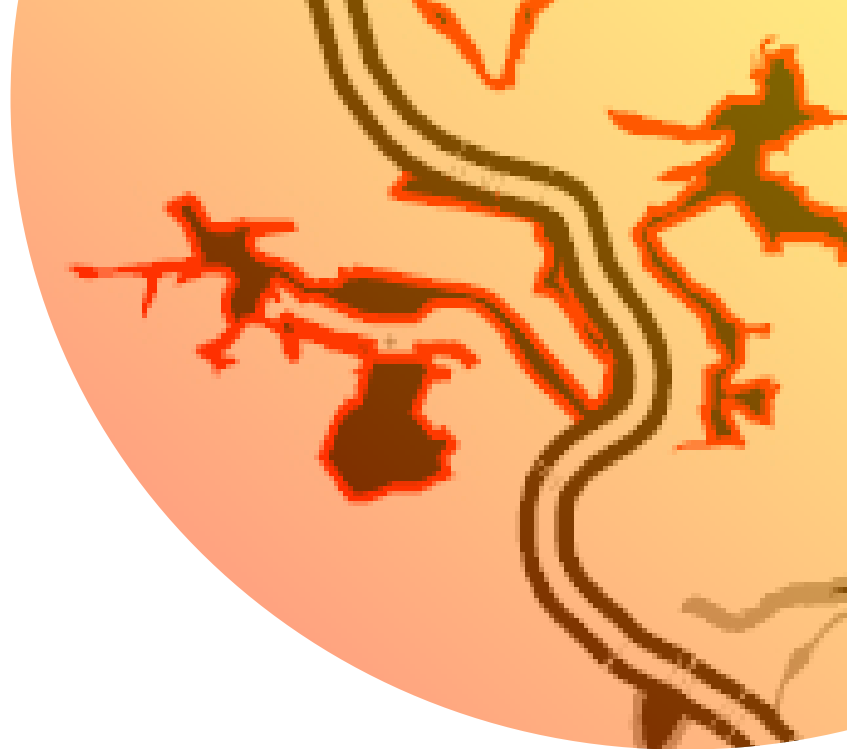
**2. Implementation concepts
and planning**

ECONNECT

1. Definition of goals & target-setting

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S. Krefl Conservation/INKA BB



Thanks for granting your
attention to me and the
following lecturers!

Selected papers:

- Badeck, F.-W., K. Böhning-Gaese, W. Cramer, P.L. Ibisch, S. Klotz, I. Kühn, S. Kreft, K. Vohland & U. Zander (2007): Schutzgebiete Deutschlands im Klimawandel - Risiken und Handlungsoptionen. *Naturschutz & biologische Vielfalt* 46: 151-167.
- Fee, E, K. Gerber, J. Rust, K. Hagenmueller, H. Korn & P. Ibisch (in press): Stuck in the clouds: Bringing the CBD's Ecosystem Approach for conservation management down to Earth in Canada and Germany. *Journal for Nature Conservation*.
- Ibisch & Kreft (2008). Anpassung an den Klimawandel: eine systematische Analyse von Handlungsoptionen für den Naturschutz. *ANLiegen Natur* 1: 3-23.
- -- (2009): Klimawandel gleich Naturschutzwandel? In: NABU-Bundesverband (ed.): *Klimawandel und Biodiversität*. Berlin.
- -- (2009): Natura 2000 im Klimawandel. Pp. 51-64 in B.B.N. (ed.): *Stimmt das Klima? Naturschutz im Umbruch*. B.B.N., Bonn. (Jahrbuch für Naturschutz und Landschaftspflege 57.)
- -- (2009): Naturschutz und Klimawandel – mehr oder weniger Wildnis? In: Aldo Leopold Forum für Umweltethik (ed.): *Aldo-Leopold-Symposium "Wildnis – Werte – Wirtschaft" 2007*. BSUG, Munich.