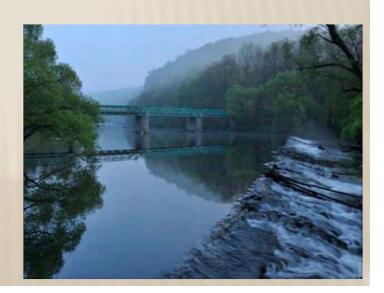


Outline

- Overview & Motivation
 - > ForAdapt project
 - > Challenges & opportunities
- * Approach
 - > Conduct survey
 - > Collaborate in case studies
 - Design web portal



ForAdapt Project Overview

Marie Curie International Incoming Fellowship

Decision support toolkit FOR ADAPTive management of forest ecosystem services across borders in the face of climate change and economic scarcity in Europe

* Objectives

- > Learn about opportunities & challenges
- > Engage managers to develop joint solutions
- > Share solutions with conservation community
- Project runs until 2017









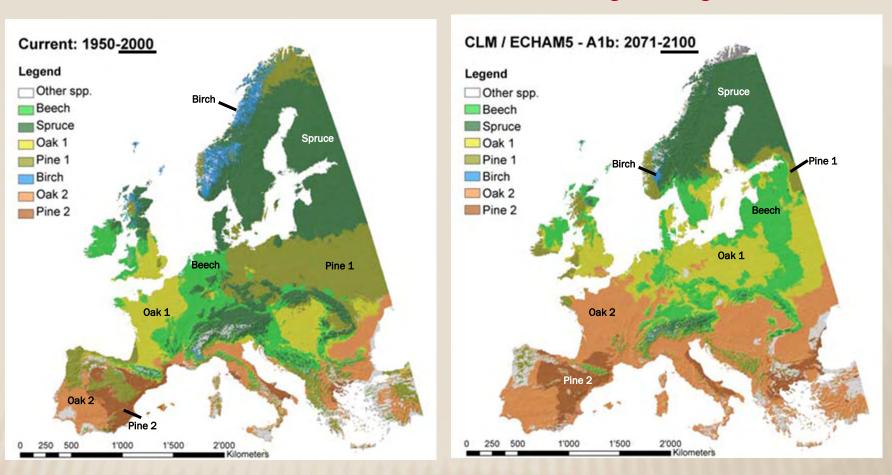


Key Motivating Challenges

- Climate change impacts
- Barriers to wildlife migration
- Nuisance species infestations
- Dense human population
- Scarce resources for conservation

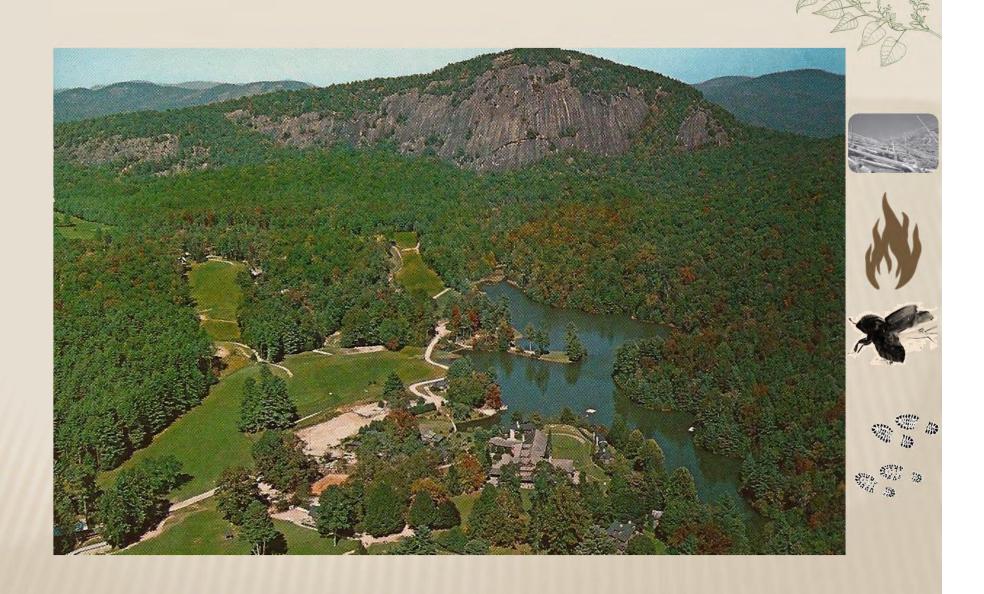
Projected Shifts in Forest Biomes to 2100

Strong warming scenario



Oak 1 = white oaks; Pine 2 = P. halepensis; Hanewinkel et al. 2012

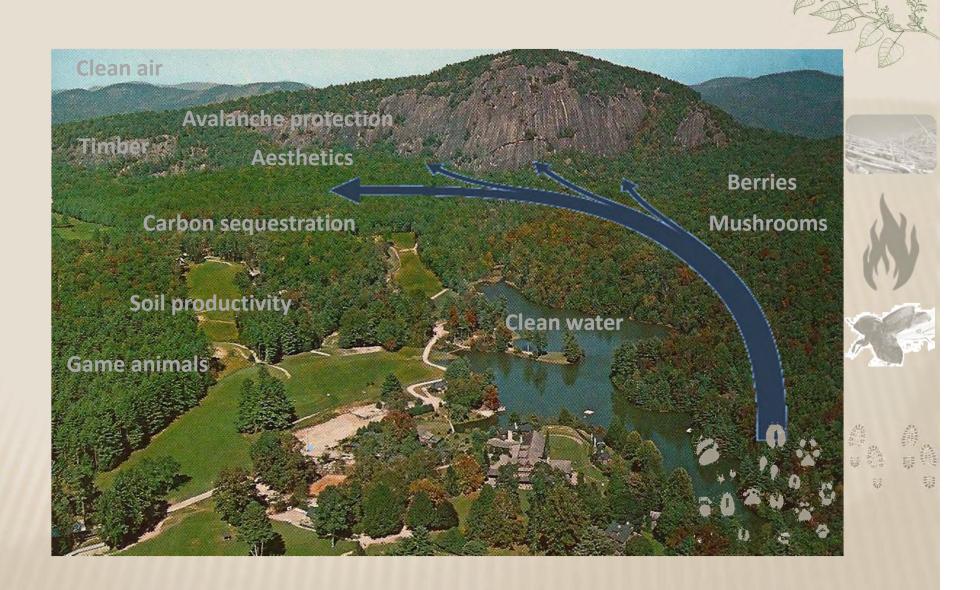
Disturbance



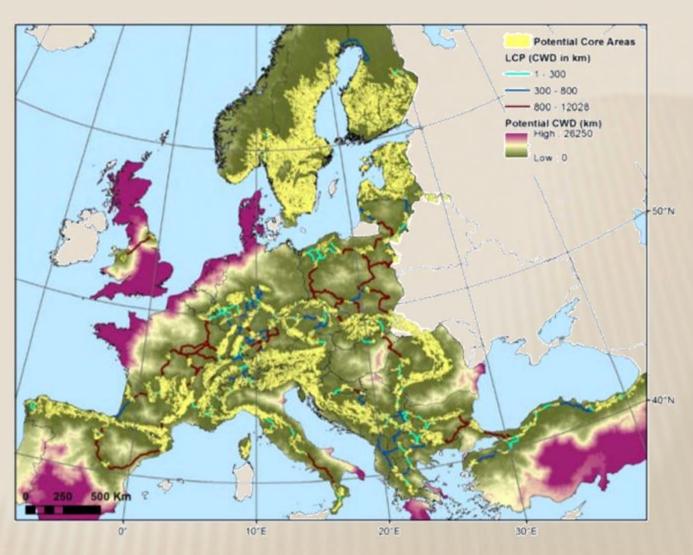
Forest Ecosystem Services



Forest Ecosystem Services



Forests offer Migration Corridors



CWD = cost-weighted distance for lynx; 30-m resolution European Environmental Agency 2014

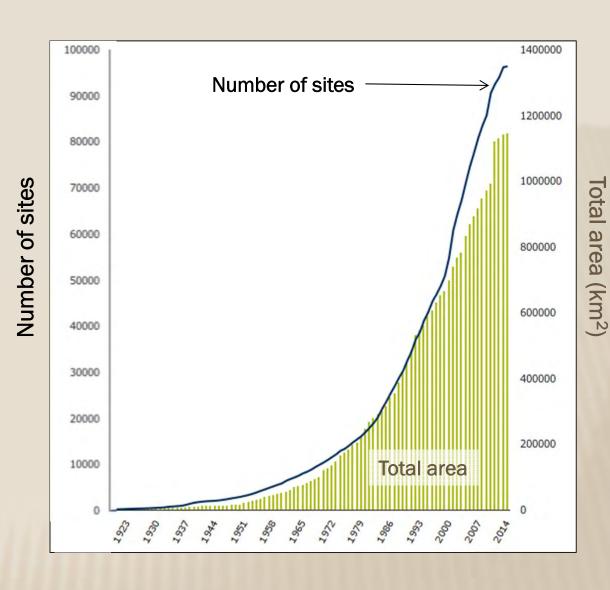
Migration to Buffer Mammal Diversity Loss

- Severe climate change scenario to 2100
- If all can migrate,
 47% species
 become extinct or
 at-risk
- If no migration,
 87% species
 become extinct or
 at-risk

Increases in Protected Areas of Europe

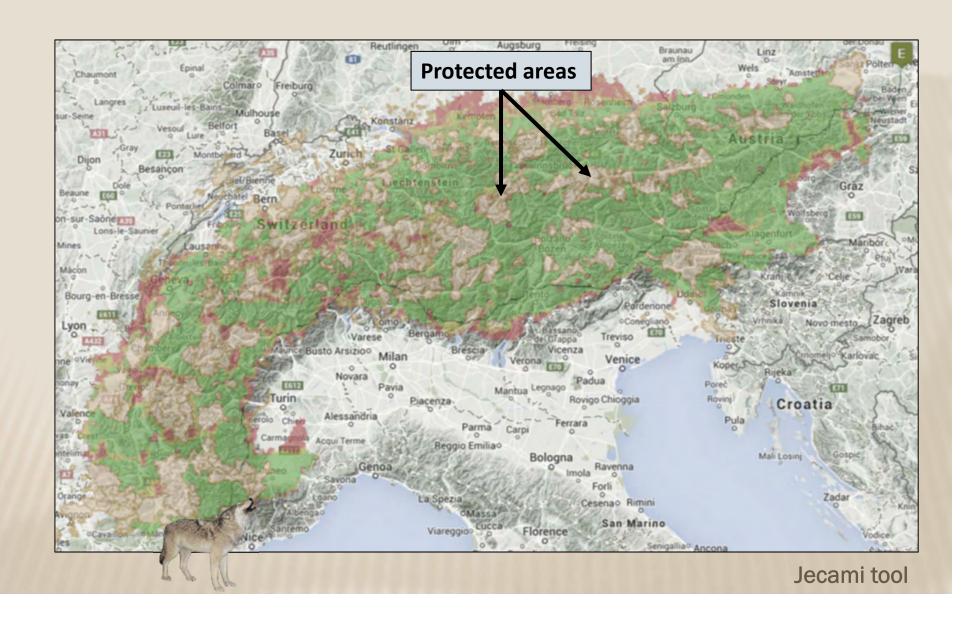
- Current assessment across 33 countries:
 - > ~100K sites
 - > >1.1M km²
 - > >10% land area



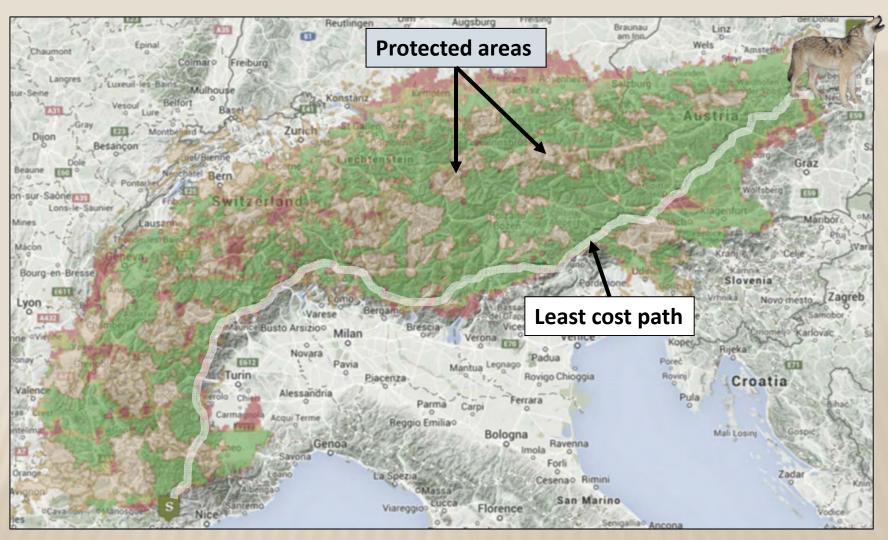


Images from European Environmental Agency

Least Cost Path for a Wolf through Alps



Least Cost Path for a Wolf through Alps



Transboundary Protected Areas

- Cooperative management
- Major benefits
 - > Biodiversity + ecosystem services
 - > Environmental education + regional development
- EUROPARC TransParcNet leading the way







ForAdapt Project

Learn: opportunities & challenges

Plan: joint solutions

Share: web portal





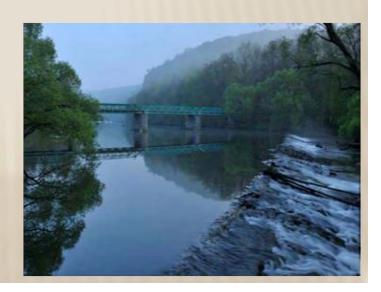






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ForAdapt Approach - Summary

- 1. Conduct survey
- 2. Collaborate in case studies
- 3. Design web portal

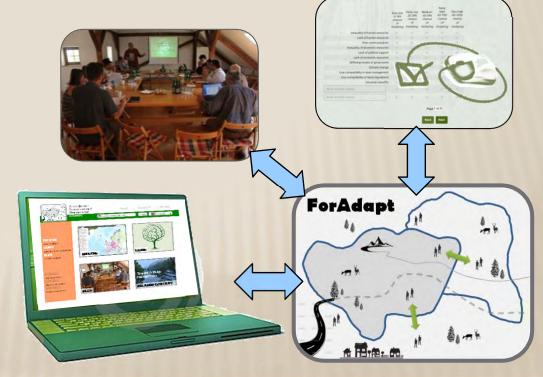


Photo: Jakub Kašpar

Survey of Protected Area Managers in Europe

- Opportunities and challenges for cross-border conservation & management over next 10 years
- Preferred features for web portal
- Survey supported by...
 - > EUROPARC
 - > IUCN WCPA's Transboundary Conservation Specialist Group











Cross-border Management Survey

Challenges of Cross-Border Management, continued

Click here for glossary of terms.

8. How likely each challenge below will hinder your park in coordinating management of forests and/or wildlife with adjacent stakeholder groups over the next 10 years.

| | Very low 0-19% chance of hindering | Fairly low 20-39% chance of hindering | Medium 40-59% chance of hindering | high 60-79% chance of hindering | Very high 80-100% chance of hindering |
|---------------------------------------|--|---|---|---|---|
| Inequality of human resources | 0 | 0 | 0 | 0 | 0 |
| Lack of human resources | 0 | 0 | 0 | 0 | 0 |
| Poor communication | 0 | 0 | 0 | 0 | 0 |
| Inequality of economic resources | 0 | 0 | 0 | 0 | 0 |
| Lack of political support | 0 | 0 | 0 | 0 | 0 |
| Lack of economic resources | 0 | 0 | 0 | 0 | 0 |
| Differing modes of governance | 0 | 0 | 0 | 0 | 0 |
| Climate change | 0 | 0 | 0 | 0 | 0 |
| Low compatibility in data management | 0 | 0 | 0 | 0 | 0 |
| Low compatibility of laws/regulations | 0 | 0 | 0 | 0 | 0 |
| Uncertain benefits | 0 | 0 | 0 | 0 | 0 |
| Enter another option | 0 | 0 | 0 | 0 | 0 |
| Enter another option | 0 | 0 | 0 | 0 | 0 |

- 20 minutes
- Email EUROPARC members
- In English, French,German, Italian, Spanish
- Open until July 7th
- Results inform design of web portal

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Bac

Next

Case Studies

- Workshops with pairs of parks
- Develop joint solutions
- Share solutions through web portal







Build from Existing Examples

- 1. Improving habitat connectivity
- 2. Co-managing invasive species
- 3. Co-managing visitor impacts
- 4. ...
- Combinations of above
- Many other possibilities
- Share solutions in web portal



Web Portal for Cross-border Conservation & Management in Europe

Intended users



- > Protected area managers & planners
- > Other conservation professionals & researchers

* Goal

Support conservation of forests & wildlife across protected area borders in Europe Search within this site:

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GET HELP
many resources





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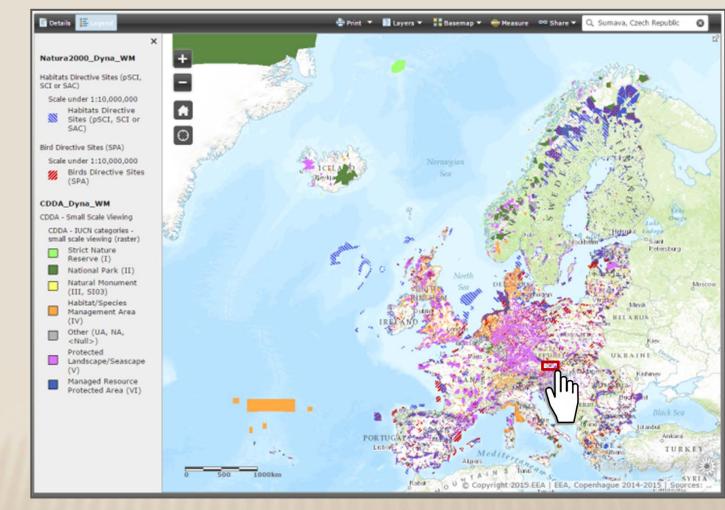


Image from European Environmental Agency



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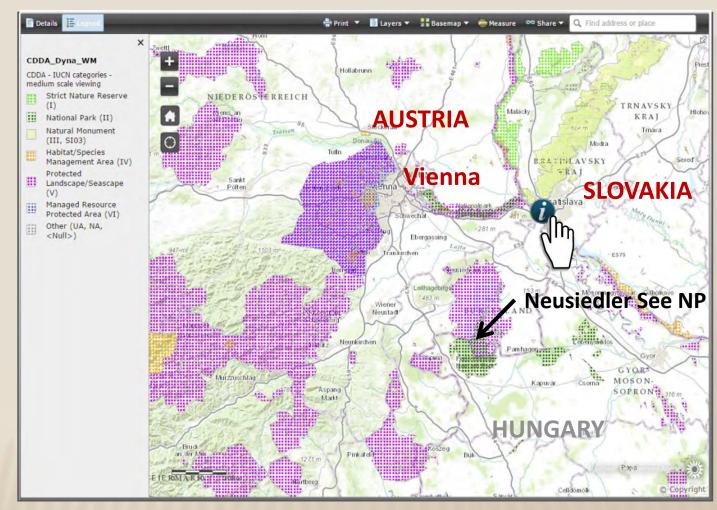


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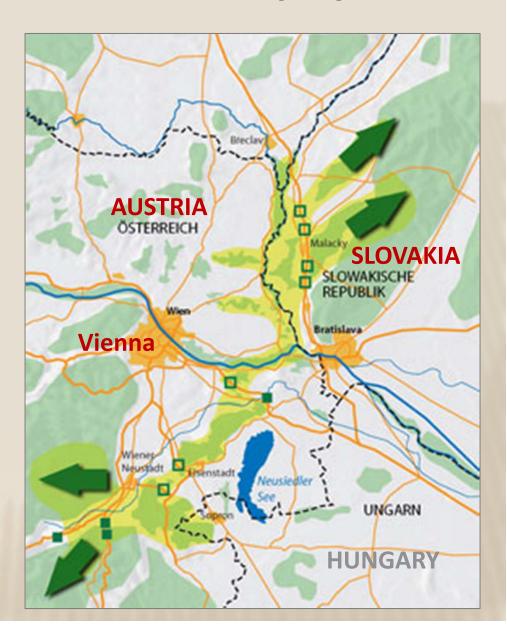
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Images from European Environmental Agency

1. Improving Habitat Connectivity Example: Alps-Carpathian Corridor project

- Duration: 2009 2022
- Austria & Slovakia
- Restore migration corridor for wildlife
- Preserve & create green bridges over highways
- Sustainable land use planning
- 90-page action plan
- Protected areas, regional authorities, NGOs, highway companies, universities



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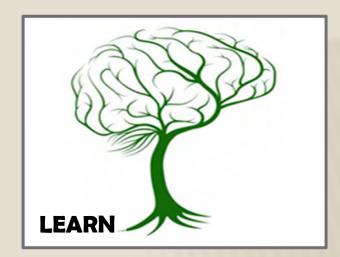
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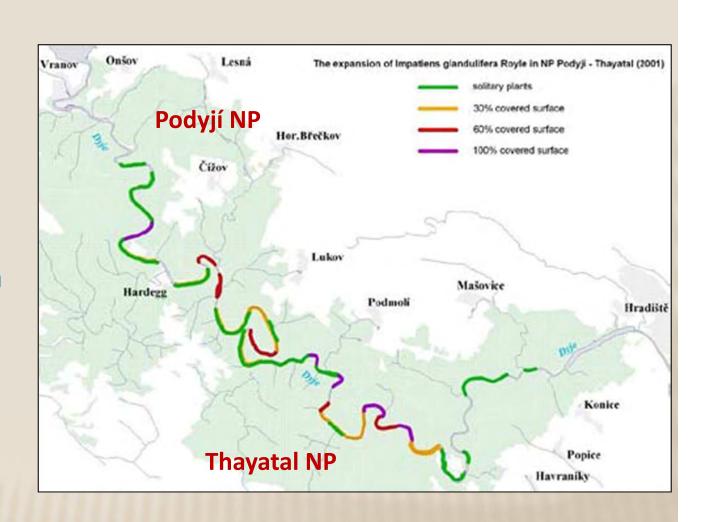
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UPLOAD
share a resource
GET HELP
many resources





2. Co-managing invasive species Example: Thayatal & Podyjí National Parks

- Duration:1995 2005
- Austria & CzechRepublic
- Eradication of Himalayan Balsam along River Thaya



Build from Existing Examples

- 1. Improving habitat connectivity
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- 3. Co-managing visitor impacts
- 4. ...
- Combinations of above
- Many other possibilities
- Share solutions in web portal



Next Steps

- Administer survey (June-July)
- Case study workshops (July-December)
- Scientific manuscripts + web portal (2016)

