

ALPBIONET²⁰³⁰

EUROPEAN REGIONAL DEVELOPMENT FUND

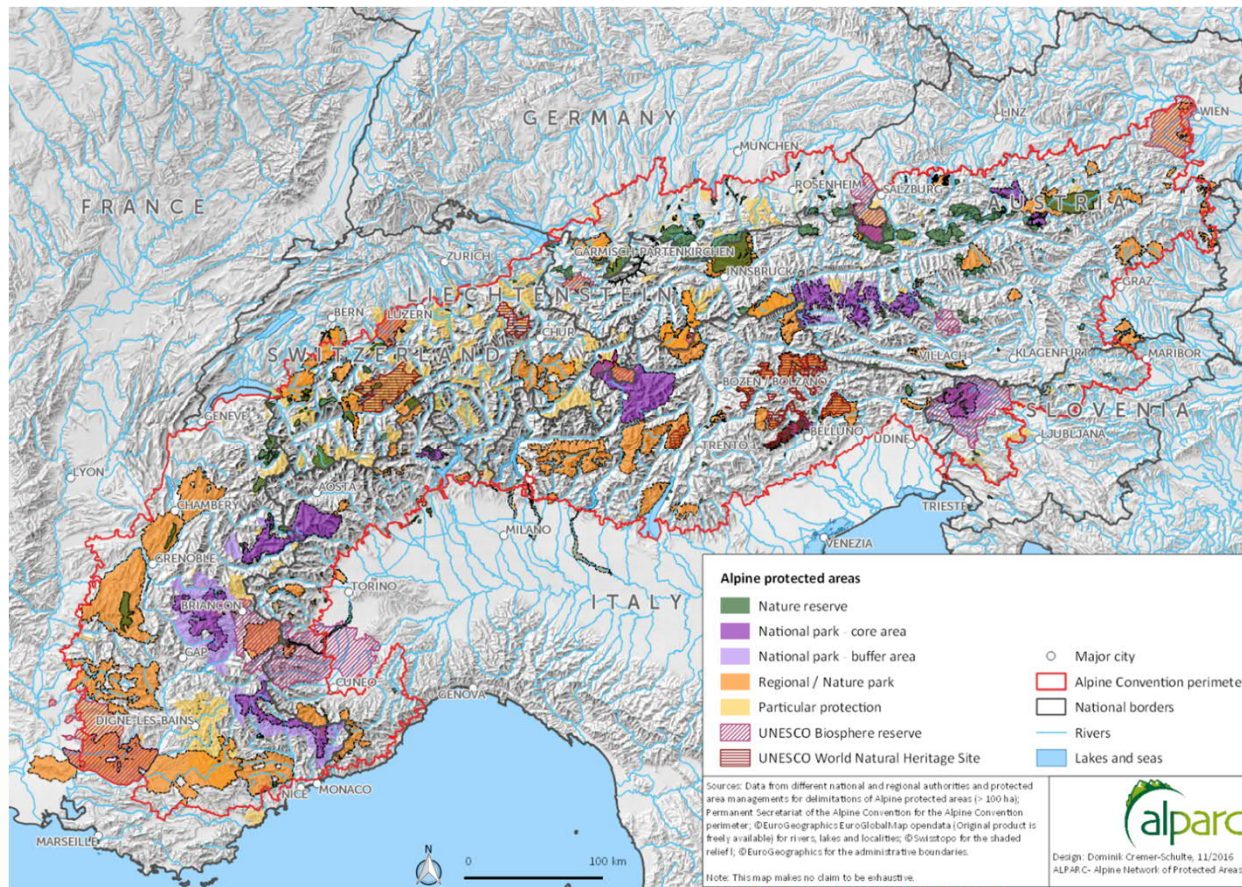
Connectivity beyond the Alps

Filippo Favilli, PhD
Eurac Research, Italy

Some characteristics of the Alpine Macro Region

- More than 80 million inhabitants,
- One of the most important macro-regions in Europe
- One of the most innovative economic areas and most competitive touristic regions in Europe.
- EUSALP includes within its boundaries many large metropolitan areas around the Alps. The population of these areas is also drawing on Alpine resources and thus exerting pressures on biodiversity and ecological processes within the Alps.
- Intensive land use in Alpine valleys creates important barriers to wildlife and functional ecological connectivity.
- The western Alps (Rhône valley in France), the Southern Alps (Po plain in Italy) and the eastern Alps (Trieste-Ljubljana-Maribor) all have significant barriers already in place. The northern Alpine region still appears to offer greater landscape permeability.

Alpine protected areas (> 100 ha)



- Overall Objectives
 - ALPBIONET2030 facilitates an Alpine Ecological (Connectivity) Network.
 - It heads for integrating wildlife management and defragmentation approaches into sectoral policies.
 - It extends its spatial focus to the EUSALP perimeter, which helps to tackle main connectivity barriers towards the Alps.
- Duration Nov 2016 – Oct 2019
- Total Budget 2.880.294,85
- ERDF 2.241.693,04

- Project Partners:
- FR | ALPARC – Alpine Network of Protected Areas (Lead Partner)
- FR | Asters, Conservatory of natural areas of Upper Savoy (Project working region)
- FR | French Hunters' Association
- AT | Hohe Tauern National Park, Tyrol (Project working region)
- AT | Kalkalpen National Park
- AT | University of Veterinary Medicine Vienna, Research Institute of Wildlife Ecology
- CH | Swiss National Park (technical partner)
- SI | Agricultural Institute of Slovenia
- SI | Slovenia Forest Service
- DE | National Park Administration Berchtesgaden (Project working region)
- DE | blue! advancing European projects GbR
- IT | European Academy of Bolzano
- IT | Julian Prealps Nature Park (Project working region)
- IT | The Italian Federation of Parks and Nature Reserves – Europarc Italy
- DE | Landcare Germany (technical partner)

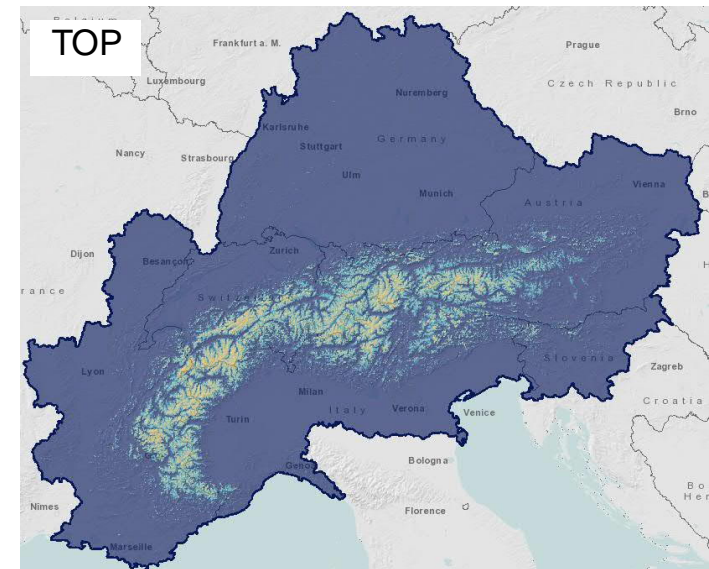
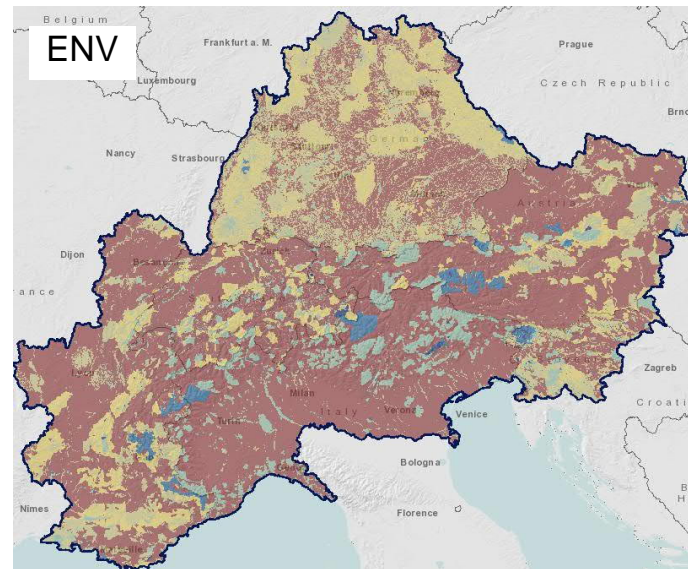
ACTIVITIES

- Creating an Alps-wide planning tool for a smooth transition to a more connected Alpine macro-region
- Integrating wildlife management & connectivity in sectoral policies
- Defining Strategic Alpine Conservation Areas (SACA) to enhance ecological connectivity within and beyond the Alps
- Strengthening the Network for Ecological Connectivity – at all levels within the EUSALP perimeter
- Developing guidelines for the resolution of human-nature conflicts

- Analysis of the most important EC core areas and barriers and their impacts on EC within EUSALP
- Analysis and importance of human-wildlife conflicts for EC

Continuum suitability indices (CSI):

- LAN: land use
- POP: population pressure
- ENV: environmental protection
- FRA: fragmentation
- TOP: altitude and topography



Indicator value



(Luethi et al., in prep.)

Protected Areas – Cornerstones of Ecological Connectivity in the Carpathians and Beyond

International Conference, Visegrád, Hungary, 28-30 September 2021 - Project co-funded by European Union Funds (ERDF, IPA)

Strategic Alpine Connectivity Areas

Definition

❖ SACA 1 : Ecological Conservation Areas

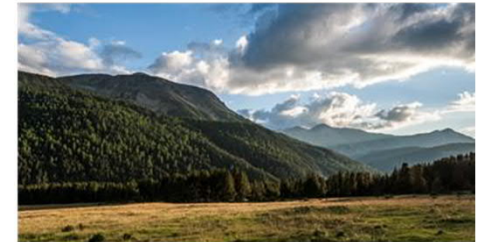
- ✓ Connectivity is working quite well
- ✓ Mainly need **conservation** of the status

❖ SACA 2 : Ecological Intervention Areas

- ✓ Important links between SACA1 areas
- ✓ Connectivity is currently working to some extent but would benefit from enhancements
- ✓ **development** (e.g. restoration)

❖ SACA 3 : Connectivity Restoration Areas

- ✓ Barriers for connectivity between SACA 1
- ✓ **mitigate** negative impacts



Protected Areas – Cornerstones of Ecological Connectivity in the Carpathians and Beyond

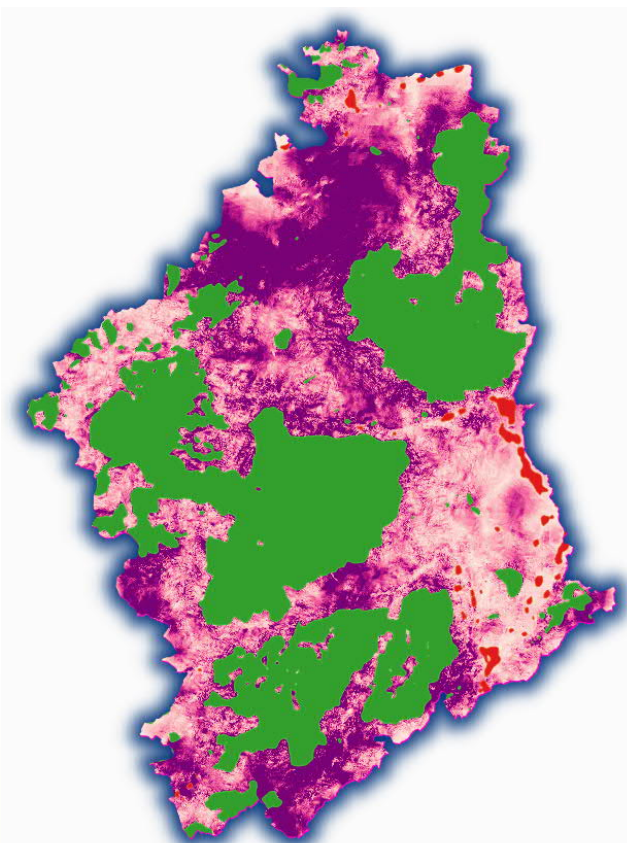
International Conference, Visegrád, Hungary, 28-30 September 2021 - Project co-funded by European Union Funds (ERDF, IPA)

SACA 1 - Ecological Conservation Areas

- SACA 1
- EUSALP
- Alpine Convention
- Project Working Region

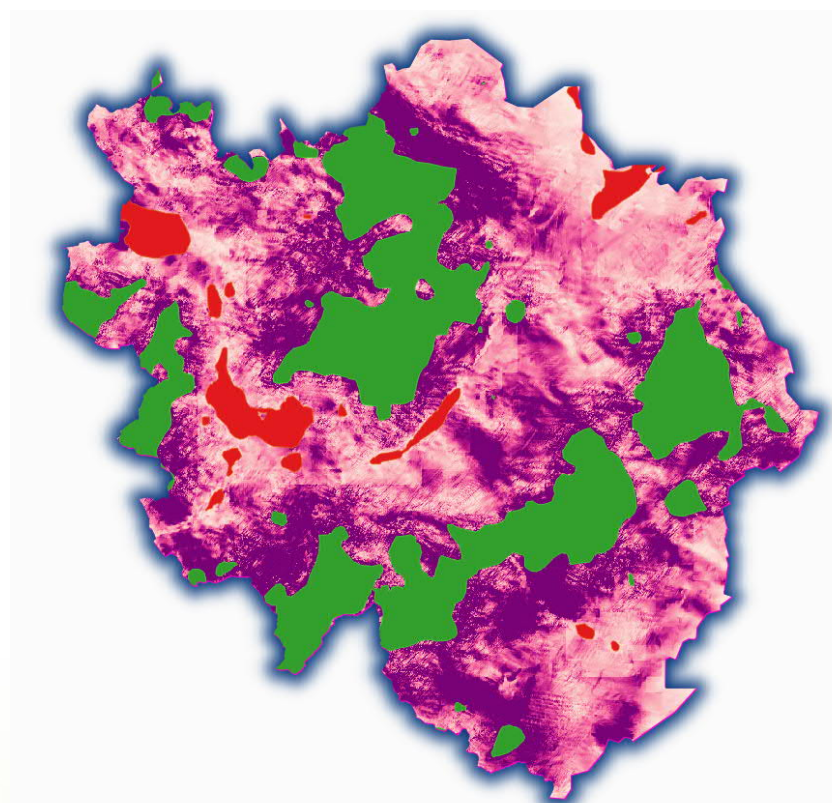
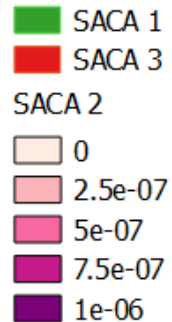


Protected Areas – Cornerstones of Ecological Connectivity in the Carpathians and Beyond
International Conference, Visegrád, Hungary, 28-30 September 2021 - Project co-funded by European Union Funds (ERDF, IPA)



Rhaetian Triangle

SACA 2 - Ecological Intervention Areas



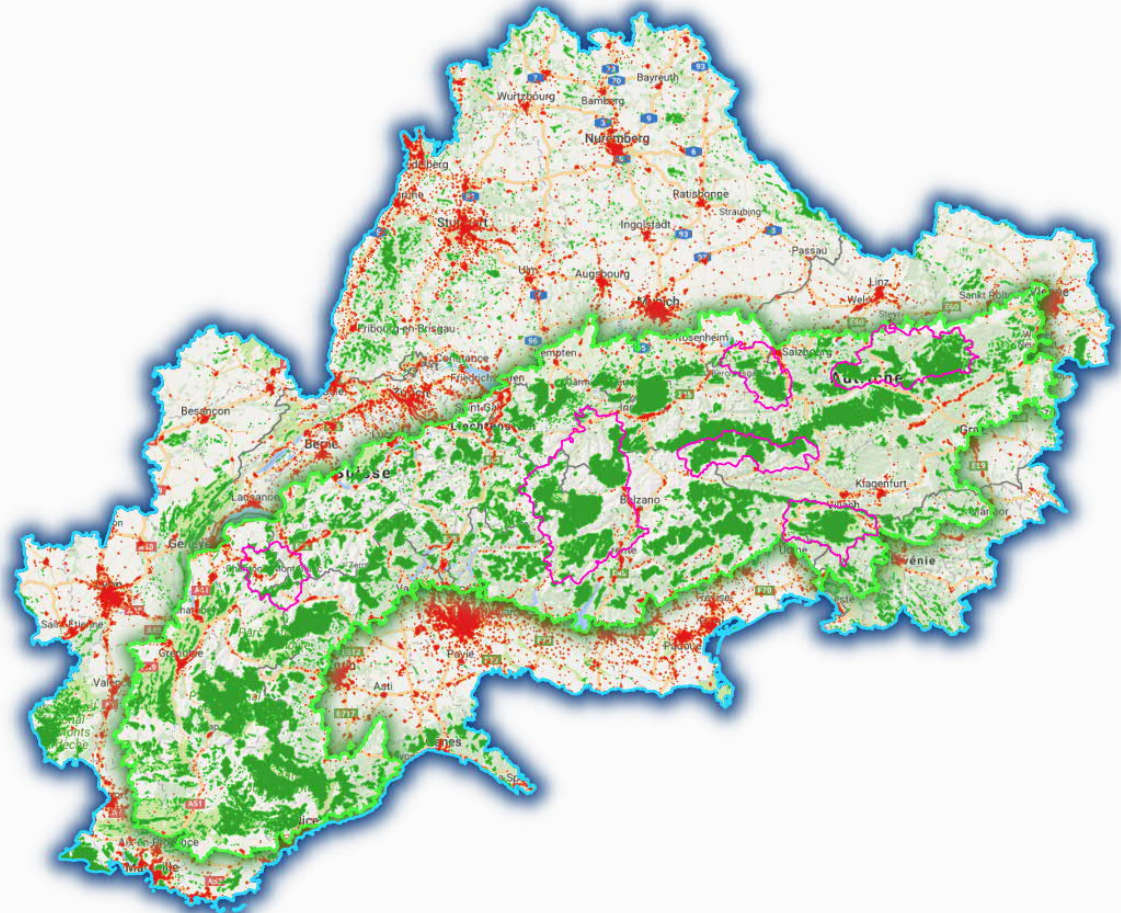
Mont-Blanc

Protected Areas – Cornerstones of Ecological Connectivity in the Carpathians and Beyond

International Conference, Visegrád, Hungary, 28-30 September 2021 - Project co-funded by European Union Funds (ERDF, IPA)

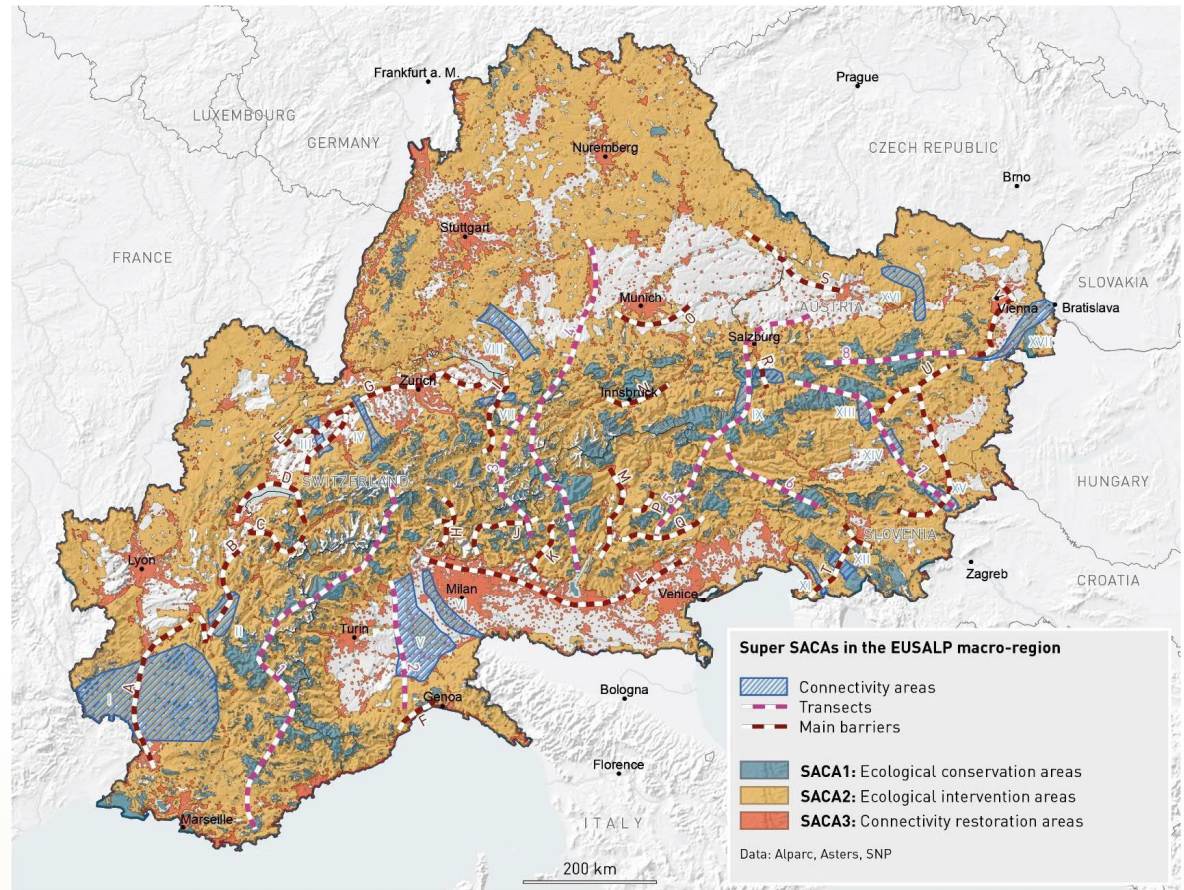
SACA 3 - Connectivity Restoration Areas

- SACA 1
- SACA 3
- EUSALP
- Alpine Convention
- Project Working Region



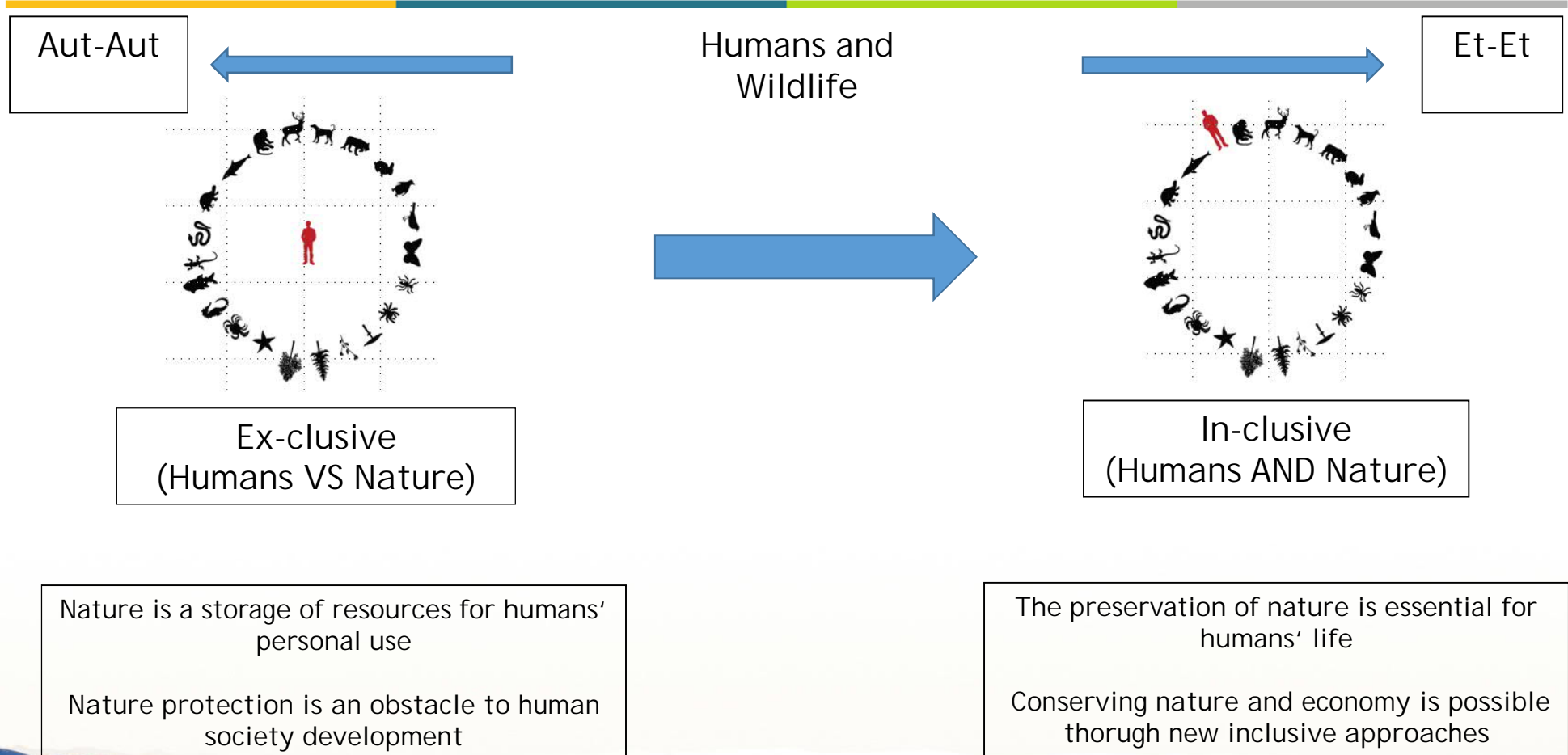
Protected Areas – Cornerstones of Ecological Connectivity in the Carpathians and Beyond
 International Conference, Visegrád, Hungary, 28-30 September 2021 - Project co-funded by European Union Funds (ERDF, IPA)

Ecological connectivity in and around the Alps: Connectivity areas and ecological transects



Protected Areas – Cornerstones of Ecological Connectivity in the Carpathians and Beyond

International Conference, Visegrád, Hungary, 28-30 September 2021 - Project co-funded by European Union Funds (ERDF, IPA)



Deliverable D.T5.1
State of the art of
current mitigation
and mediation
strategies in
mountain areas



WORK PACKAGE 5
**Report on the state of the
art of current mitigation
and mediation strategies
in mountain areas**

Collection of human-nature conflict case
studies and mitigation strategies used in the
Alps and in other mountain areas with
indications on the transferability of results

Filippo Favilli,
Isidoro De Bortoli,
Federica Maino,
Prune Claire Giatti

Eurac Research,
Bolzano, Italy
May 2017

Deliverable D.T5.2
Description of the most
urgent HNC in PWR

**eurac
research**

WORK PACKAGE 5
Deliverable D.T5.2.1.

**“Description of the most urgent Human-
Nature Conflicts in Project Working Regions
(PWR)”**

Filippo Favilli
Isidoro De Bortoli
Federica Maino
Andrea Omizzolo
Prune Claire Giatti

**eurac
research**

Deliverable D.T5.3.1:
One professional video
covering all PRs' EC-
related human-nature
conflicts and affected
stakeholders



Deliverable D. T5.3.2
Social network analysis and selection of five short local amateur videos about human-wildlife/nature conflicts in the Alps



Deliverable D. T5.3.3
Scientific poster showing youth's current social knowledge and perceptions about local human-nature conflicts and EC



Deliverable D. T5.4.
"Ecological Connectivity and Human-Nature Conflict in Mountain Areas" - Abstract Book



Deliverable D. T5.5.
Comic Book

How to overcome these barriers?

- Situation to be taken into account in national planning (ex. Bavarian Alpine Plan)
- Special connectivity areas to be established
- Creation of operational corridors
- Agreements and environmental relevant contracts with stakeholders (agriculture, tourism)
- Interdiction of construction of infrastructure and habitations
- Linking of protected areas
- Alps-wide planning concertation and information between countries
- Alps wide planning tool for ecological connectivity accessible for all official state planning institutions of the alpine countries in cooperation with the EUSALP regions in the frame of the Alpine Convention

THANK YOU

info@alpbionet2030.eu

www.alpbionet2030.eu

Filippo Favilli, PhD
Eurac Research

eurac
research