

Transgreen project - WP4

Planned activities in the Western Carpathians pilot area

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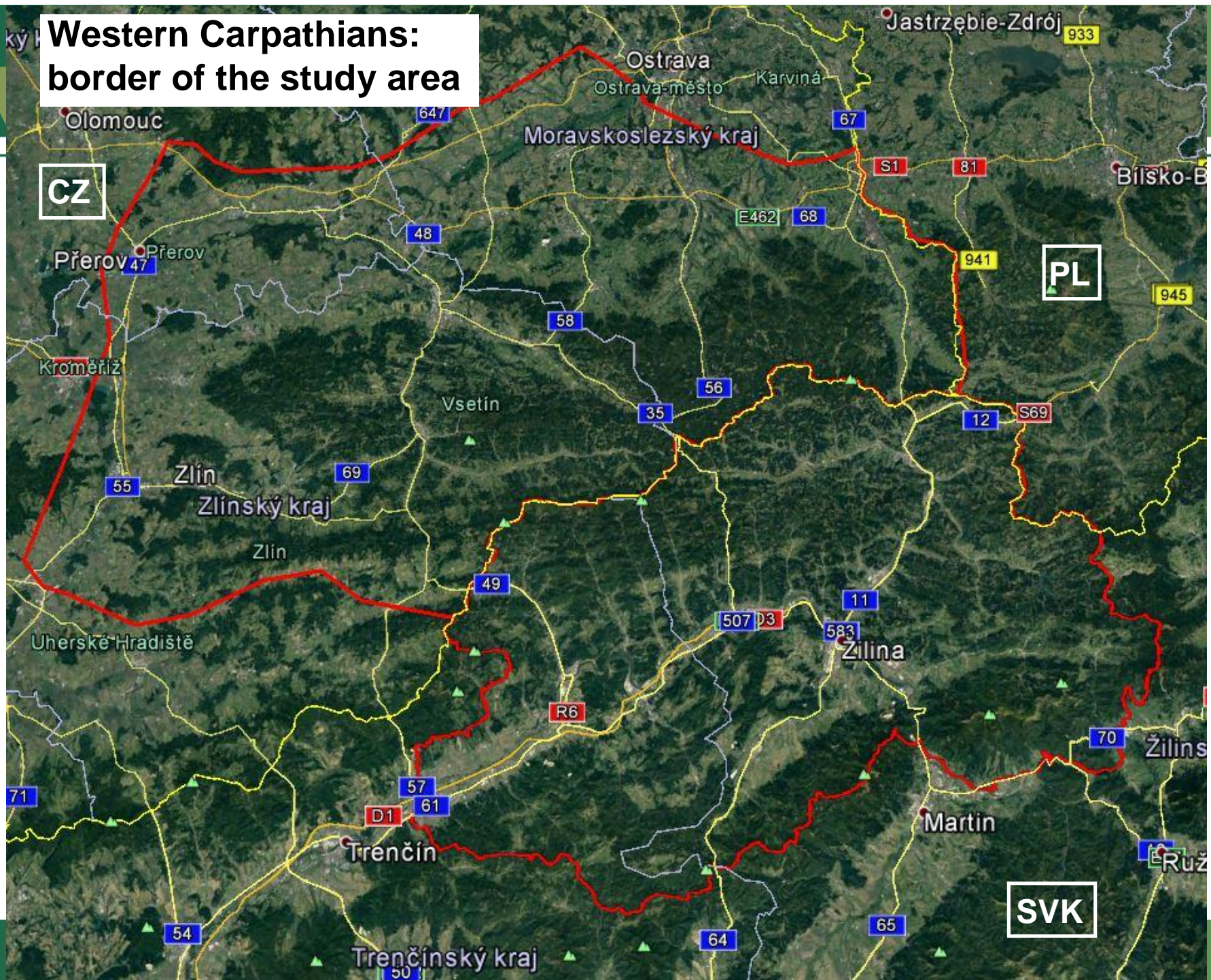
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Western Carpathians: border of the study area



Planned activities - overview



Cooperating partners

CZ: NCA CR, CDV, Friends of the Earth Olomouc

SVK: SNC SR

Proposal of the main activities in the pilot area:

<u>Activity</u>	<u>Output</u>	<u>weight</u>
Evaluating the impact of existing transport infrastructure on the nature in the pilot area	Report	40%
Impact assessment of planned transport infrastructure on the nature in the pilot area	Report	10%
Principles and methods of evaluation and monitoring of already existing / planned mitigation measures (structures) for animals (Handbook for establishing monitoring system) in the Carpathians.	printed handbook	20%
Handbook for mitigating the impact of the planned transport infrastructure on nature.	printed handbook	30%

Evaluating the impact of existing transport infrastructure



1) Evaluation of migration permeability of existing transport infrastructures for animals

- detailed evaluation of the migration permeability of the selected types of roads: highways, I., II. class roads / railways with high traffic volume
- migration permeability will be assessed in the field and evaluated according to technical parameters (dimensions of bridges, overpasses, underpasses, fences, etc.) and the knowledge of biology of the target species

= assessing **Migration potential of existing structures on the roads/railways (migrating potential of road sections)**

- cameratrapping monitoring, e.g. telemetry if known from previous studies

Main output will be the **map of transport infrastructure in relation to the migration permeability**





2) monitoring of fauna mortality

- system of monitoring of fauna mortality will be proposed for selected transport infrastructures (I. and II. class roads, highways, railways)
- field data collection (done partly by PLA administrations own staff, guards, external hired people) other possibility to obtain the data from: hunting associations, police, office for management and maintenance of roads and highways, drivers.
- methodology for the implementation of fauna monitoring (data collection, data storing and evaluation) will be prepared by CZ partners and circulated among all the partners in the pilot areas
- data from all groups of animals will be collected
- Mobile phone application for data collection and storage for professionals and also the general public will be adjusted (a task of CDV)
= www.srazenazver.cz
- **The output will be spatially specified database on the fauna mortality occurrence**



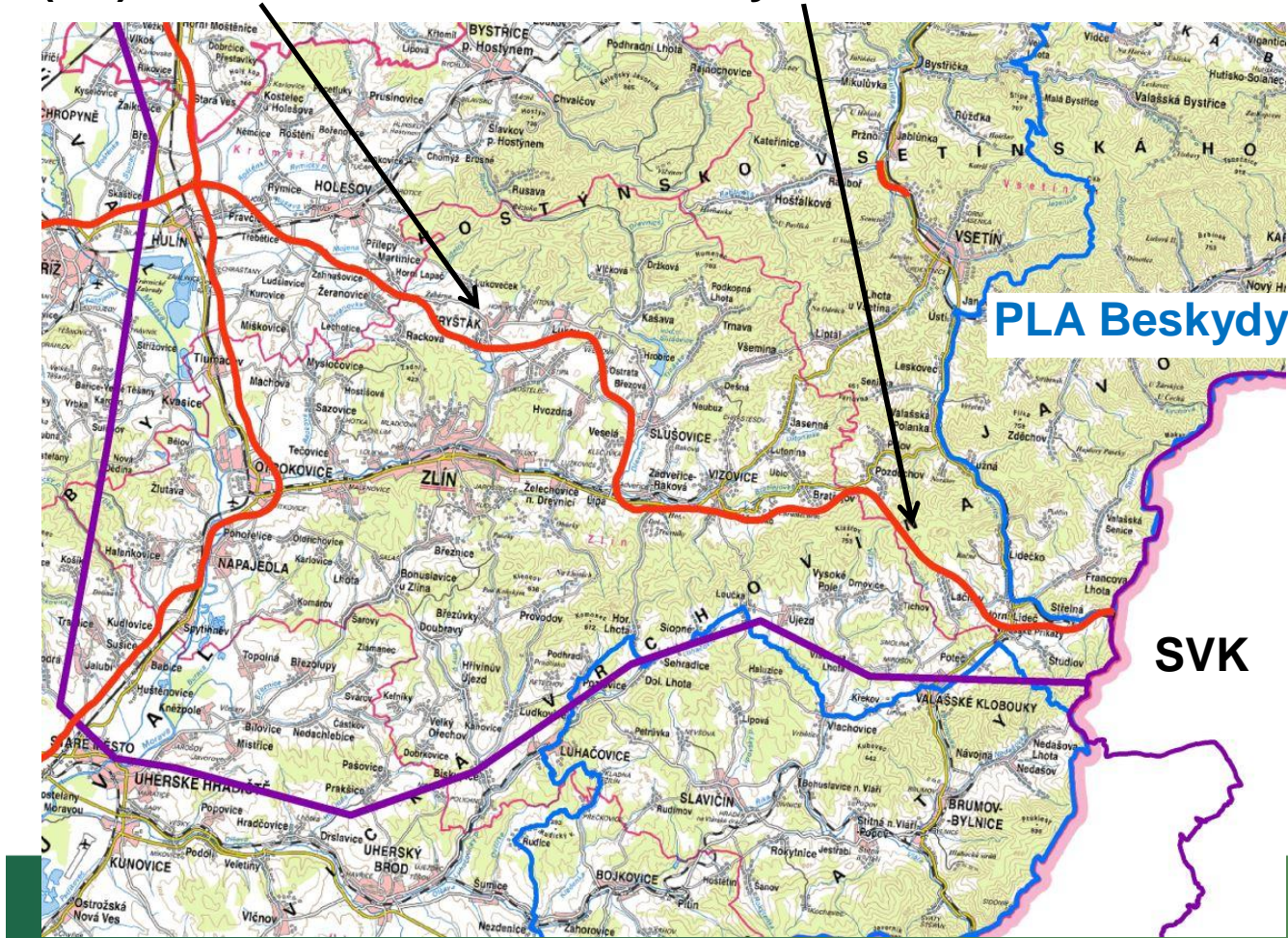
photo: Dana Bartošová

Impact assessment of planned transport infrastructure



Planning documents for roads, highways, railways construction will be obtained. Evaluation and impact assessment of these planned transport infrastructures on large carnivores migration will be done.

(CZ) - R49 Hulín - Vizovické vrchy - Střelná – Slovakia



Handbook for establishing monitoring system for mitigation structures



- number of mitigation structures has been built to ensure the migration permeability for fauna
- no system for evaluating the effectiveness of these structures is in place
- no feedback, and the errors that limit the effectiveness of these measures may be repeated again.
- investor should always have to verify whether the funds for construction are invested effectively, i.e. whether the mitigation structures meet the expected purpose.

It is therefore necessary to prepare the principles for evaluating the effectiveness of these measures, describe methods how to monitor and determine what will be the standard duty for the investor and what will be something extra that should be solved e.g. in the ecological research studies.

Handbook for establishing a monitoring system for transport infrastructure, as part of the Guidelines for integrated transport infrastructure development - WP3.



Handbook for mitigating the impact of the planned transport infrastructure on nature



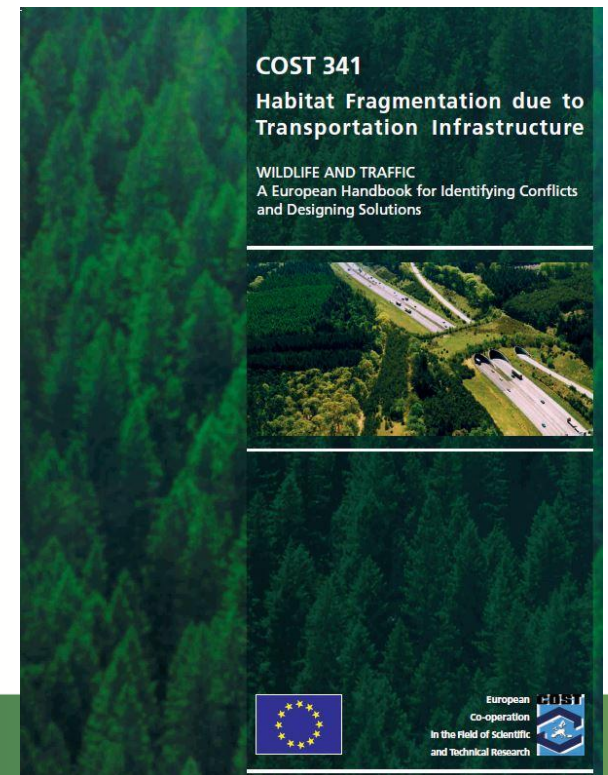
IENE European Handbook could be used as a basis for adaptation to the Carpathian conditions

- methodology for general principles of construction of transport infrastructure to minimize its negative impacts on nature
- principles where to build new roads, building bridges across rivers, how to secure migration continuity for otter and large mammals (underpasses, overpasses...)
- principle for fence construction etc. will be described

download from the website Infra Eco Network Europe:

http://www.iene.info/wpcontent/uploads/COST341_Handbook.pdf

Handbook as a part of Guidelines on integrated transport infrastructure development (WP3)





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Thank you for your attention!

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