

# EEA-40 Fragmentation of the Landscape



Ministerstvo životního prostředí

*Supported by grants from Iceland, Liechtenstein and Norway.*

## NEWS

### **Project name: Complex Approach to the Protection of Fauna of Terrestrial Ecosystems from Landscape Fragmentation in the Czech Republic**

**Project Nr.:** EHP-CZ02-OV-1-028-2015

**Project location:** Various locations throughout the Czech Republic

**Financial support:** EEA Grants, The CZ02 Programme – Biological Diversity and Ecosystem Services / Monitoring and Integrated Planning and Control in the Environment / Adaptation to Climate Changes

**Total Resources:** 10,245,917 CZK incl. VAT

**Financing:** Financial resources from EEA Grants are assigned in the amount of 8,196,733 CZK, which is 80% of the anticipated total project expenditure. The state budget grants financial resources in the amount of 2,049,184 CZK, which is 20% of the anticipated total project expenditure.

**Project duration:** 1.1.2015 – 30.4.2017

#### **Project partners:**

- The Transport Research Centre (CDV, v.v.i.)
- EVERNIA, Ltd.
- The Silva Tarouca Research Institute for Landscape and Ornamental Gardening (VÚKOZ, v.v.i.)

#### **Project guarantee:**

- Mgr. Michaela Sladová, NCA ČR, Division of species protection, E: michaela.sladova@nature.cz
- Mgr. Jitka Větrovcová, NCA ČR, Division of species protection, E: jitka.vetrovcova@nature.cz

### **Project Objective and Scope:**

Fragmentation of the landscape and populations belongs to the most serious processes that endanger terrestrial biodiversity, and is therefore reflected in many strategic documents of the Czech Republic. Several methodological approaches and measures have been adopted in the Czech Republic; however, they are not effective enough. The key issue lies in the fact that the methodological concept is not united from the viewpoint of various groups of organisms. Of no less importance is also the issue of insufficient connection between these methodological approaches/measures and urban planning, which is the key tool in protection of nature and the landscape from fragmentation.

The primary objective of the project is to prepare a draft of comprehensive methodology for the protection of landscape connectivity for the key relevant groups of terrestrial animals. The outcomes will be conceived in such a manner as to

allow their practical application in urban planning, especially as underlying analytical documents for urban planning. This objective, when reached, should have a major effect on the protection of biological diversity in the Czech Republic and is fully in line with the focus of the whole CZ02 programme.

The public awareness part of this project aims at contributing to the protection of connectivity in our landscape, both by informing the general public about this issue and by improvement in the decision-making processes thanks to the presentation and providing access to the resulting methodological materials to professionals and state administration.

### **Project Activities:**

#### Nature Conservation Agency of the Czech Republic (NCA CR)

- Preparation of a complex methodological approach to the protection of the landscape from fragmentation
- Methodology for the protection of the landscape from fragmentation with respect to the species of forest ecosystems
- Methodology for the protection of the landscape from fragmentation with respect to the species of non-forest ecosystems
- Methodology for the protection of the landscape from fragmentation with respect to semi-aquatic animals
- Methodology for the protection of the landscape from fragmentation with respect to amphibians
- Methodology for the protection of the landscape from fragmentation with respect to reptiles
- Methodology for the protection of the landscape from fragmentation with respect to birds
- Analysis of the occurrence of species of interest, namely the Eurasian Lynx (*Lynx lynx*), the Brown Bear (*Ursus arctos*), the Grey Wolf (*Canis lupus*), the Elk (*Alces alces*) and the Wildcat (*Felis silvestris*)
- Assessment of the effects of aboveground power lines as a fragmentation component in the landscape for birds
- Review of critical passages with high mortality of amphibians and proposals for specific measures
- Revision of the definition of areas for the migration of species of interest with regard to large mammals (this activity is also shared by all other partners)

#### The Transport Research Centre (CDV, v.v.i.)

- Spatial database of traffic barriers in various timelines
- Identification of points of conflict in the intersection of green and transport infrastructure
- Proposal of methodology to identify possible conflicts between green and transport infrastructure
- Proposal to optimise existing bridge structures for animal migration
- Revision of the definition of areas for the migration of species of interest with regard to large mammals (this activity is also shared by all other partners)

#### Silva Tarouca Research Institute for Landscape and Ornamental Gardening (RILOG, VÚKOZ, v.v.i.)

- Spatial database of surface barriers in various timelines
- Spatial database of the landscape fragmentation level from the 1950s up to the present (fragmentation geometry)
- Habitat models for species of interest
- Revision of the definition of areas for the migration of species of interest with regard to large mammals (this activity is also shared by all other partners)

#### EVERNIA, Ltd.

- Public awareness project for zoos, schools and other institutions
- Revision of the methodological approach applied in former research project VaV-SP/2d4/36/08

---

### **Photos:**



---

**Partner logos:**

