



Ministry of the Environment  
of the Czech Republic



# Action and management plans for endangered species in Czech republic - Small Grant Scheme

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# Action plans

**Action plans** (recovery programmes) for endangered species stipulated in § 52 of the law no. 114/1992 Coll. on Nature and Landscape Protection

- provided by MoE (through Agency for Nature Conservation and Landscape Protection and other expert bodies)

- main objectives - to create conditions enabling such increase of the populations and recovery of most endangered species



# Management plans

**Management plans** for protected species - conceptual document of MoE (not based on direct legal provision; mentioned by State Nature and Landscape Programme) concentrated on conflict species

- provided by MoE (through Agency for Nature Conservation and Landscape Protection and other expert bodies)

- main objectives - to raise acceptancy of the conflict species among to stakeholders and public, manage and avoid conflicts and other socio-economical impacts of the species, ensure reliable information on the status of the species



# APs and MPs implemented by MoE



Freshwater Pearl Mussel AP  
*Margaritifera margaritifera*  
since 2000/updated 2013



European Ground Squirrel AP  
*Spermophilus citellus*  
since 2008



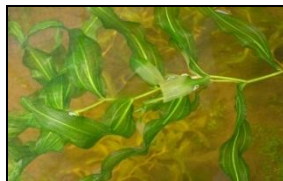
Aesculapian Snake AP  
*Zamenis longissimus*  
since 2008/amended 2012



Scarce Fritillary AP  
*Euphydryas maturna*  
since 2011



Marsh Angelica AP  
*Angelica palustris*  
since 2000



Long-stalked Pondweed AP  
*Potamogeton praelongus*  
since 2003



Bohemian Sand Pink AP  
*Dianthus arenarius* ssp. *bohemicus*  
since 2008



Bohemian Gentian AP  
*Gentianella praecox* ssp. *bohemica*  
since 2011



European Otter MP  
*Lutra lutra*  
since 2009



European Beaver MP  
*Castor fiber*  
since 2013

# List of priority (candidate) species

- prepared in cooperation with scientific bodies

## List of candidate species for Action plans

- list of the most endangered species (with known threats, biology etc.)
- several species from all groups – plants, insects, birds, amphibians (for example Natterjack toad, Great Bustard, Large blue and some other butterflies or Eastern pasqueflower etc.)

## List of candidate species for Management plans

- only preparation of the MP for Large carnivores (Lynx, Brown bear, wolf) proposed

## List of insufficiently known species

- endangered species with unfavourable status , need of AP, but with lack of knowledge on reasons of threat and possible solutions
- several species – mainly plants, insects, mammals

# Measures of Habitat Management

- **habitat improvement nad restoration**, mainly hydrology (P. mussel, Pondweed, Angelica, Pink, Gentian)
- **management of habitats and corridors** - mowing, shrub clearing, pasture, composting, coppiced forest, invasive sp. damaging, etc.(almost all species)
- **management of special habitats** (egg-laying sites – A. snake, food channels – P. mussel, planting of ash siedlings - Fritillary, mechanized removing of humus layer, disturbances of soil surface - Pink)
- **identification of critical migration barriers** (A. snake, Otter)
- **building/adjustment of underpasses for migrating** (A. snake, Otter) and **interconnection of isolated sites by grassland corridors** (G. squirrel)



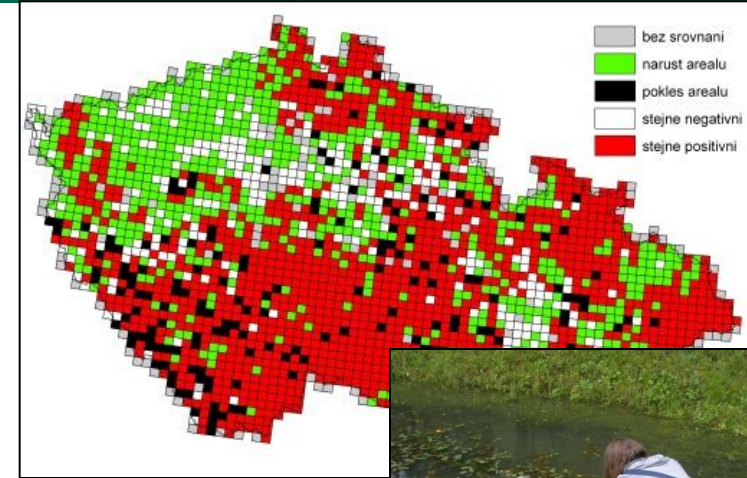
# Measures of Species Management

- **breeding** (G. Squirrel, P. Mussel)
- **cultivation** (Angelica, Pondweed, Pink)  
incl. sterile tissue cultivation and seed bank
- **injured rehabilitation** (otter),
- **repatriation** (almost all species) –  
juvenile stages, seeds, plants
- **catalogue of sites of recent and historical distribution, potential repatriation** places (G. Squirrel, Angelica, Pondweed, B. Gentian)
- **transfers** e.g. when cutting grass along ditches (A. Snake)
- testing of **measures preventing damages** on the species or of the species (e.g. otters to gain access to ponds)



# Measures of Monitoring

- **population monitoring** (all species) – different stages (eggs, larvae, flowering plants, etc.)
- **nationwide mapping** (Otter, G. Squirrel, A. Snake, P. Mussel)
- **monitoring of special habitats** (e.g. egg-laying sites – A. Snake)
- **corpses collection** (Otter, G. Squirrel)
- **monitoring of the water quality** (bioindications – P. Mussel, chemical and physical parameters – P. Mussel, Pondweed)
- **monitoring of the underground water** (Angelica)
- **monitoring of the soil characteristics** (Pink, Angelica)
- **monitoring of the microclimate** (Pink)
- **changes in vegetation composition** (Pondweed, B.Gentian)





# Measures of Applied Research

- **genetics** (all species)
- **population biology and demography**, PVA modelling (Otter, G. Squirrel, B. Gentian)
- **reproduction** (A. Snake, Pink, Pondweed, P. Mussel)
- **methods of breeding/cultivation** (Pondweed, P. Mussel, Angelica)
- **home ranges, migration** (Snake)
- **food and diet** (P. Mussel, Fritillary, Otter)
- **parasites and predators** (G. Squirrel, A. Snake, Otter)
- **interactions** with other organisms (Otter + fishes, Pink + insects, P. Mussel + trout, Otter + mink)
- **effectivity of management measures** (B. Gentian, Fritillary, Pink, P. Mussel)



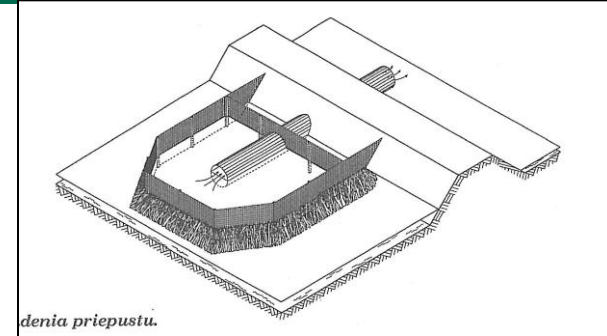
# Measures of Education

- **public education** (all species)
- **local community education** (e.g. Pink, Fritillary, Angelica, A. Snake)
- **special target groups education** – fishermen, gamekeepers, foresters, road construction authorities (Otter, A. Snake, P. Mussel)
- **presentation** in botanical gardens, zoos, museums (Angelica, Pink, Squirrel)
- **kinds of PR** - workshops, publications, web pages, FCB, exhibitions, leaflets, information boards, geocaching



# Measures of Administrative

- **habitat protection** (all species) – Natura 2000 sites, protected areas on national level
- **cooperation with owners and NGOs** – support with management planning, financing and nature conservancy permits (all species)
- **improving the system of compensations** for damages incl. methodics of damage evaluation (Otter, Beaver)
- **activities against illegal hunting** – cooperation with policy etc. (Otter)





## ***SGS - Action Plans for Endangered Species II***

-wide range of applicants (NGOs, gov. bodies, municipalities, research institutes etc.)

- similar administration procedure as in 2008-10 (administration by MoE)





**Thank you for your  
attention**

