

Protection and reintroduction of keystone species

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In-situ and ex-situ conservation

- *Conservation in natural habitats (in-situ): protection and/or restoration of habitats*
- *Ex-situ conservation is defined as protection of an organism 'off-site' i.e. EN1 outside its native habitat. From ex-situ collections, conserved in the form of living plants, stored seeds, and tissue cultures, plants can be reintroduced to their original or restored habitats.*

Dia 2

EN1

Ihana, mutta ihan järkyttävä fontti, katsopa noita pisteiden paikkoja..

Eerika Niemelä; 10.6.2014

March Saxifrage (*Saxifraga hirculus*)

Threat:

Ditching of mire habitats

*Restoration: ditch filling,
cutting and removing
vegetation,
seeding*

*Reaching favourable
conservation status
needs ex situ
protection, too*



*Several Life projects
during 1997-2014*

Fairy slipper (Calipso bulbosa)

- *Threats: Forest harvesting, malm exploration*
- *Grows about 20 years before flowering (+needs fungi)*
- *Population dynamics and possibilities to reintroduce quite unknown*



Photo: Eerika Tapio

Sandwort (Moehringia lateriflora)

Photos: Marjut Kokko



Threats: habitat changes and land use e.g. power plant building



*Conservation:
Seed germination,
Transplantation,
Hay cutting,
Pasturage*

Questions to work forward

- *Cases when reintroductions are needed?*
- *Successful experiences*
- *Warning examples*
- *Limiting conditions*
- *Needed co-operation*
- *Needed finance*
- *Possible species:
European beaver
(*Castor fiber*)*
- *What to do if alien species have already taken the ecological niches*
- *When alien species cause problems?*
- *What kind of problems?*
- *How to deal with alien species?*