Transport infrastructure and ecological corridors

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Motorway construction demands a lot of space
A proper revegetation and aftercare is important (M3)
The barrier effect of a motorway is very high
Although a regular fence is not a real barrier for everyone the motorway as a whole is still a real barrier.
Viaducts are good against barrier effect for a lot of species
Tunnels with mining technic are also good against barrier effect
Ecological underpass with bird protection wall (M3)

Project co-funded by the European Regional Development Fund (ERDF).

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Crossing river floodplain without embankment is good for the wildlife (M3, river Tisza)
Combined underpasses: If the dirt road isn’t used too frequently, then it can also be effective against barrier effect (M3)
Wildlife overpass (M7)
If a wildlife overpass is frequently used by humans, it loses its effectiveness.
Example for planning coordination failure
The same petrol station with the wildlife crossing near to that
Wildlife crossing for smaller and mid sized animals under the Motorway M7

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Old school amphibian passage with wire fence
Amphibian tunnel types with guidance wall systems
Amphibian tunnel with guidance wall system in practice

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Construction failure at an amphibian tunnel and guidance wall

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Temporary guidance wall during road construction could be important (Vermont, USA, Monkton road)
Special problems: e.g. migrating red crabs (Christmas Island)
Creativity: Special overpass for special animals (Christmas Island migrating red crabs)
Motorways are dangerous for bats too. Not too easy to protect them against collision. Creativity in planning would be important.
Safe road crossing for squirrels is not too complicated
Bat bridge in Cornwall (UK): it is simple and relatively cheap, but unfortunately it doesn’t work
Bat bridge from bat’s-eye view would be like this, if it would work, but unfortunately it doesn’t work.
M85 and the Natura 2000 forest with more bat species
A closer view of the Natura 2000 forest with bats where M85 will go through. Measure for bats: wildlife protection wall (against noise, light and collision)
A bat of the genus *Myotis* using a small underpass (about 2 m in diameter) to cross a motorway in Germany
Thank you for your attention!

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