



LIFE LINES (LIFE14 NAT/PT/001081)

Linear Infrastructure Network with Ecological Solutions

PROJECT LOCATION: Évora (Portugal)

BUDGET INFO:

Total amount: 5.540.485 €

% EC Co-funding: 3.324.303 € (60%)

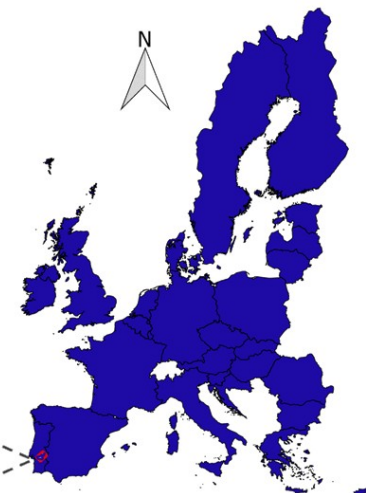
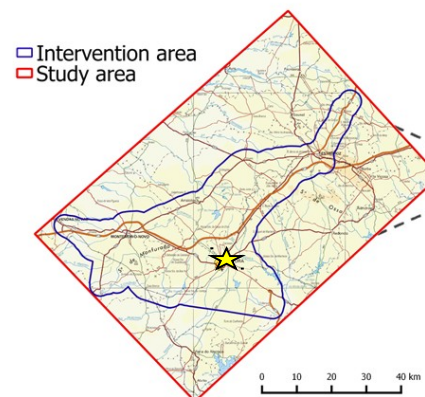
DURATION: Start: 01/Aug/2015 - End: 31/Jul/2020

Coordinating Beneficiary:

University of Évora

Associated Beneficiaries:

- EGSP (Energy and Power Systems, Ltd)
- IP (Infrastructures of Portugal)
- Marca (Local NGO)
- Municipality of Évora
- Municipality of Montemor-o-Novo
- University of Aveiro
- University of Porto (Faculty of Sciences)





OBJECTIVES & SCOPE:

Mitigation of negative effects from transport/energy infrastructures in wild fauna and creation, along them, of a demonstrative Green Infrastructure, based in corridors and stepping stones that can increment connectivity and improve conservation of local/regional biodiversity

- *Reduction of roadkills and of the barrier effect (fauna passages; culvert adaptation; fencing; flight drift screens; sound deterring devices)*
- *Reduction of bird mortality by electrocution in powerlines (bird landing deterrent devices)*
- *Create biodiversity microreserves on verges and other small remnant habitat patches*
- *Early detection and control of invasive flora*
- *Innovation –new roadkill monitoring devices; new adaptations for road crossings*
- *Improve knowledge for conservation management through the creation of regional and national databases*
- *Increase public awareness about linear infrastructures impacts and citizens engagement in roadkills and biodiversity monitoring*
- *Strengthen partnerships among stakeholders*



EXPECTED IMPACTS

Improved connectivity (project area): 210 00 ha

- *Roads = 128 km*
- *Railways (disabled) = 34 km*
- *Powerlines = 12 km*
- *Culverts and bridges improved for fauna passages = 7*
- *New fauna passages (amphibians) = 2*

Indicators

(MR and NR for 500 m buffer around the intervened area)

BEGINNING

END

Mortality Rate (MR) - Amphibians

470/ind/km/year

376/ind/km/year

MR (Medium size terrestrial vertebrates)

45/ind/km/year

36/ind/km/year

MR Owls

11/ind/km/year

9/ind/km/year

Nr Bird Nests in Powerlines Poles

40/nests/ha

30/nests/ha

Habitat improves for butterflies

0/ha

4/ha

Small mammal micro-reserves

0/m²

300/m²

Invasive Alien Sp. Area needing eradication

23,2/ha

0/ha



POLICY IMPLICATION

"....solving a set of biodiversity conservation problems induced by transport/energy infrastructures, through the implementation of cost-efficient methods that will support the creation of a Green Infrastructure."

Targets of EU Biodiversity Strategy to 2020

- *Maintain and restore ecosystems and their services (those depending on landscape connectivity)*
- *Combat Invasive Alien Species*
- *Help avert global biodiversity loss*

Targets of Portuguese National Strategy for Nature and Biodiversity Conservation

- 1. Promote knowledge on and monitoring of biodiversity*
- 5. Develop conservation actions*
- 6. Integrate conservation politics in territory management an planning*
- 7. Increase cooperation among national, regional and local administrations*
- 8 and 9. Promote education and awareness about biodiversity loss and conservation*
- 10. Intensify international cooperation*



LIFE LINES (LIFE14 NAT/PT/001081)

Linear Infrastructure Network with Ecological Solutions

Thank You!!!

