WINGSPAN CONFERENCE
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NATURA 2000

EUROKITE

AMUS
Acción por el Mundo Salvaje

TB Raab
Technisches Büro für Biologie

MEGEG

2026 WINGSPAN

Final Conference – LIFE EUROKITE (LIFE18 NAT/AT/000048)

REINTRODUCTION OF RED KITES & MODIFICATION OF POWER LINES IN SW IBERIAN PENINSULA

Godino, A., Marrero, S. & Machado, C.
AMUS - Acción por el Mundo Salvaje



Tagged Red Kites © AMUS

AMUS´ ACTIONS IN LIFE EUROKITE PROJECT

1. PREPARATORY ACTIONS
- Authorizations and birds´tagging
- **Feasibility study for the red kite´s reinforcement in Southern Spain**
- Birds monitoring

2. CONSERVATION ACTIONS
- Birds control
- Mortality detection
- Investigation and prevention of mortality
- Assessment of electrocution and collision risk associated with power lines
- **Reinforcement of population in southern Spain**

3. MONITORING THE IMPACT OF PROJECT ACTIONS

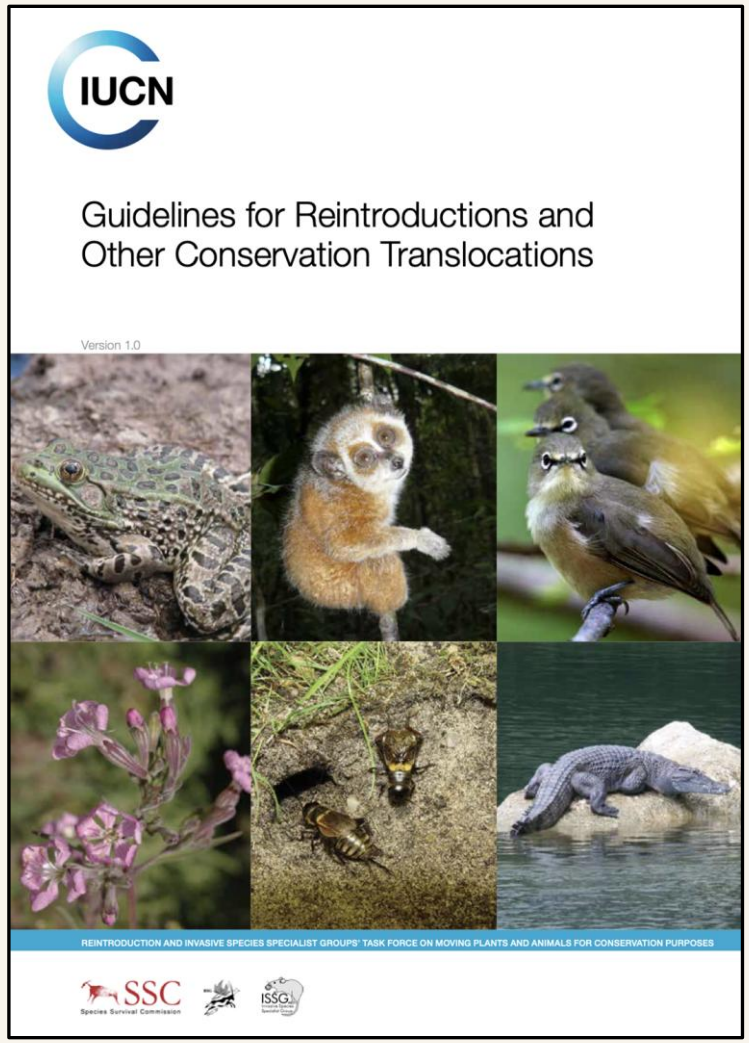
4. AWARENESS/RAISING AND DISSEMINATION OF THE PROJECT

5. PROJECT MANAGEMENT



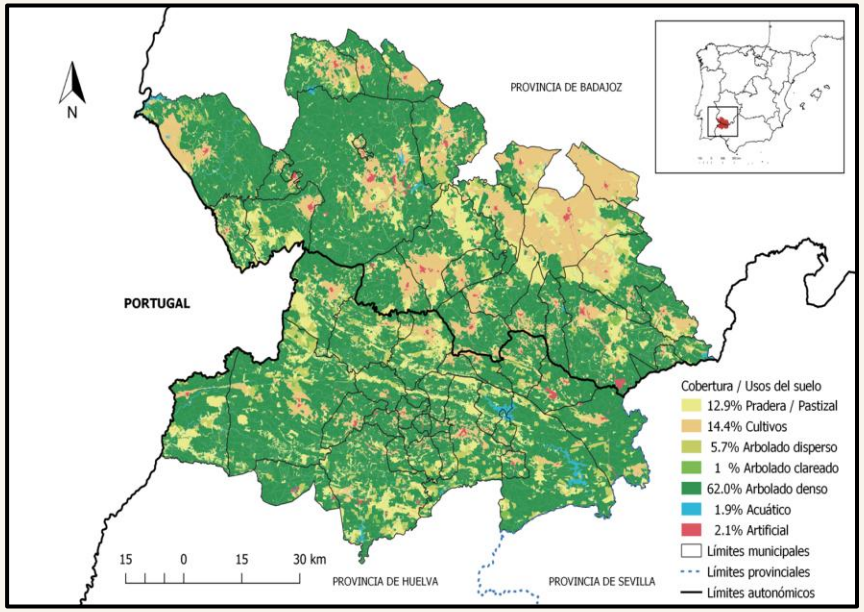
Red Kite © Hansruedi Weyrich

AMUS´ ACTIONS IN LIFE EUROKITE PROJECT



ACTION A-9. Feasibility study for the population reinforcement in southern Spain

- Habitat suitability
- Food availability
- **Evaluation of threats: Poisoning, shooting, power lines electrocution/collision, etc**.



BADAJOZ	HUELVA
376.134 ha.	301.322 ha.

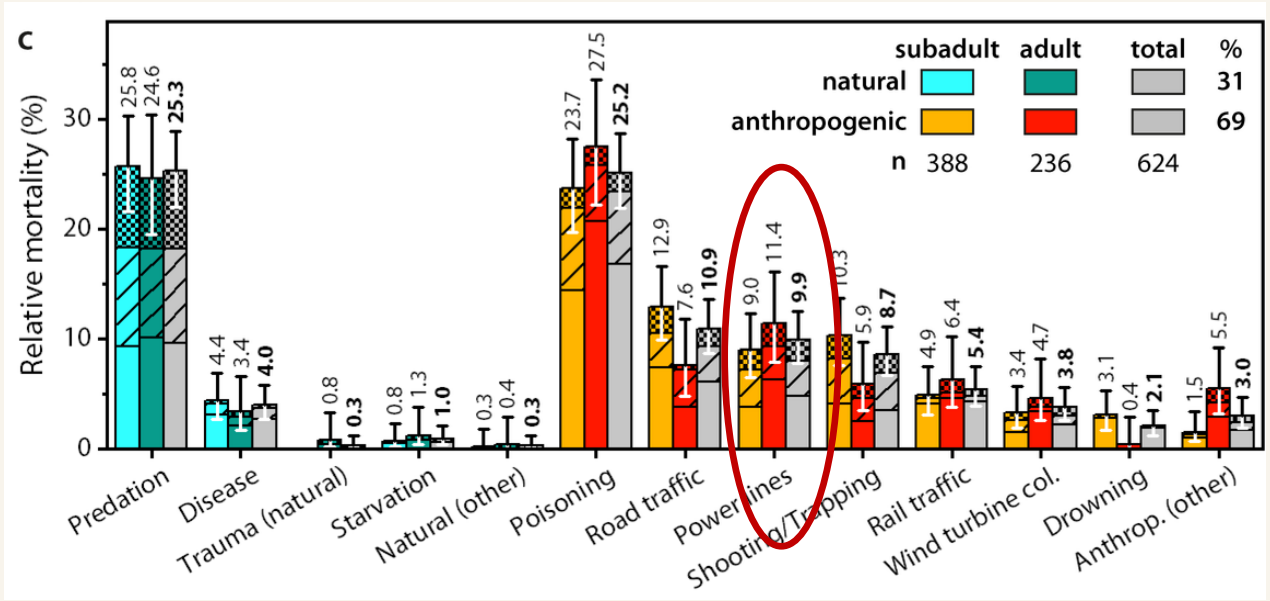
High human-caused mortality in GPS-Tracked red kites across Europe.

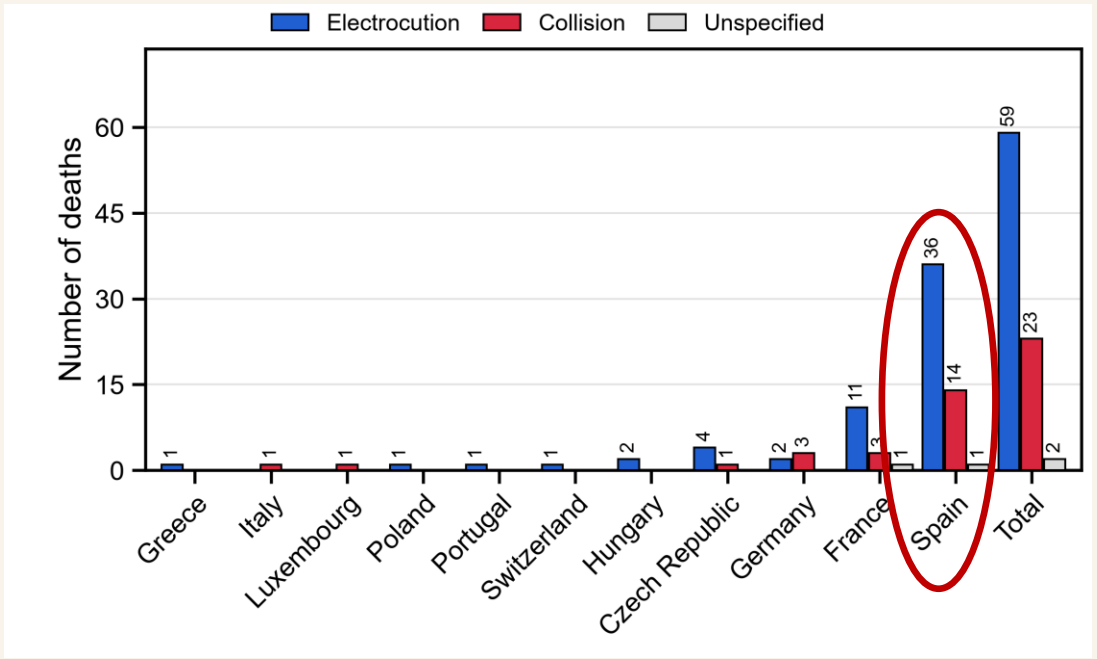
Panter et al. (under review)

- 1.248 red kites mortality records were detected in Europa. 69% of these records had a human-induce mortality.
- Poisoning and shooting represents more than 30% of red kite mortality in Europe.
- Energy infrastructures represents 14% of red kite mortality.
  - Power lines 9.9%
  - Wind Farms 3.8%

Red kite mortality caused by power lines between 2019 -2025

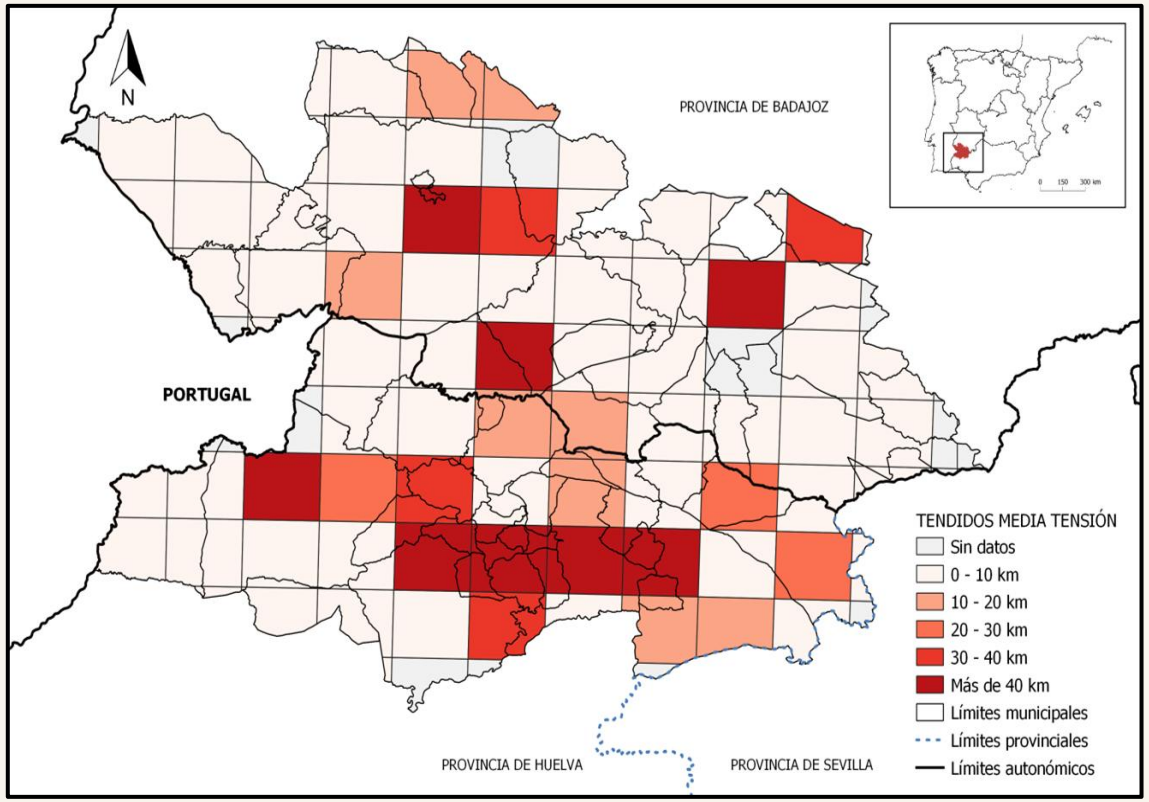
- 36 cases of electrocution
- 14 cases of collision





AMUS´ ACTIONS IN LIFE EUROKITE PROJECT

Electrocution/collision with power lines detected in the feasibility study



- ✓ 4.3 electrocutions+collisions/year (2010-2020)
- ✓ 40% Eurasian griffon vulture, 20% Eurasian Eagle-owl, 40 % others especies (n=10).

NO RED KITE RECORDS

COLLABORATION OF THE ELECTRIC COMPANIES WITHIN THE PROJECT



Red Kites © AMUS

- PROACTIVE RESPONSE
- ACTIVE RESPONSE
- PASSIVE RESPONSE

PROACTIVE RESPONSE: Co-funding

endesa

saetayield
A MASDAR COMPANY



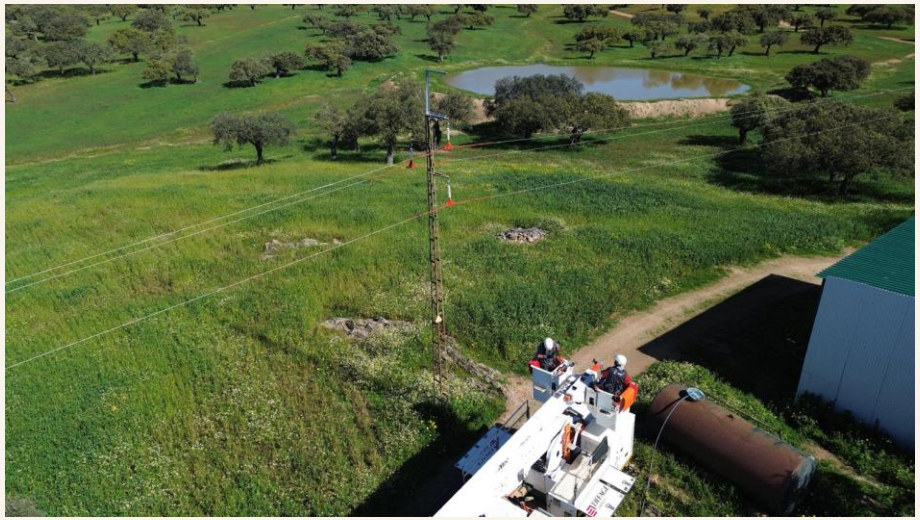


PROACTIVE RESPONSE: Minimization of mortality

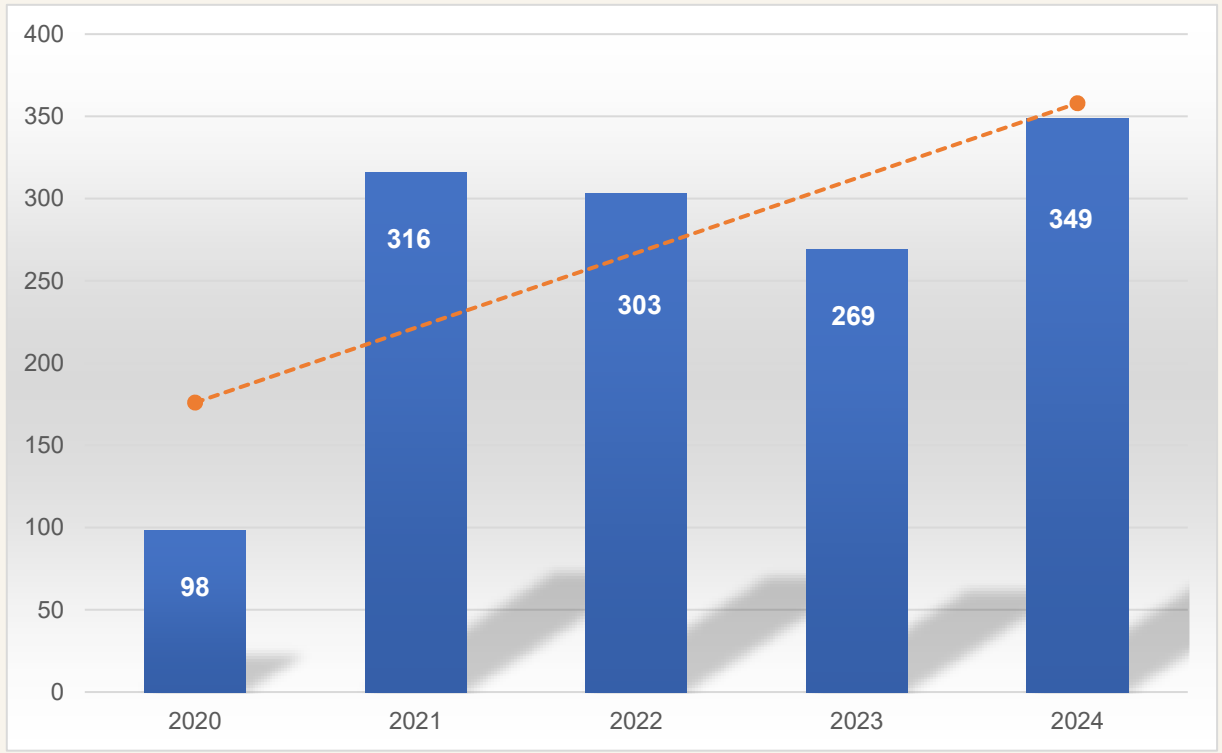
endesa







PROACTIVE RESPONSE: Minimization of mortality

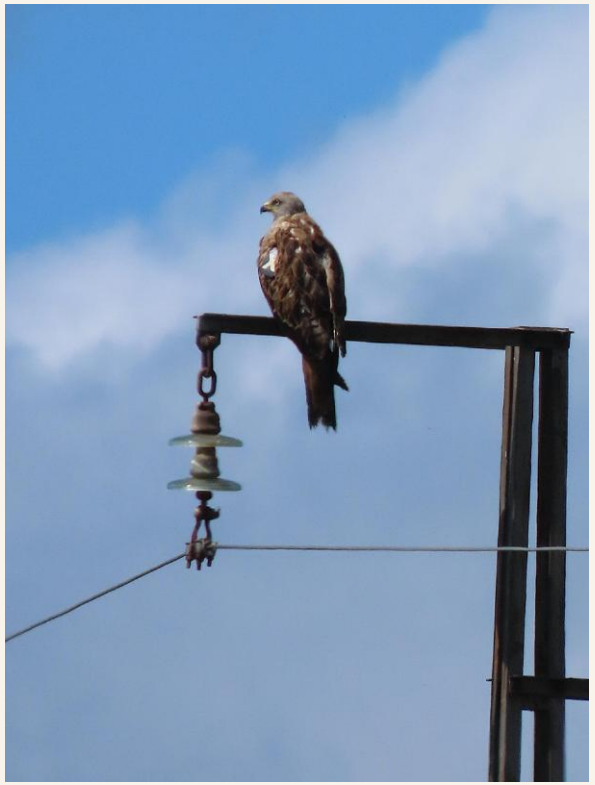


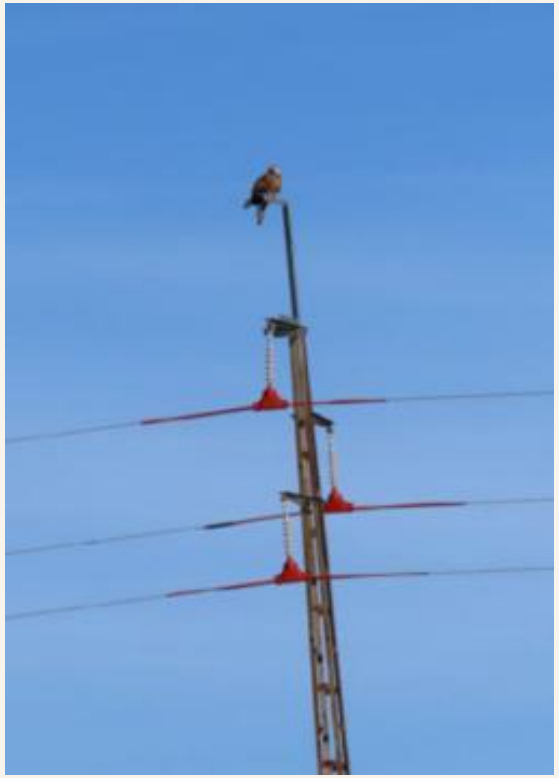
- Electrical pylons identification
- Potential risk assessment
- Priority areas for corrections
- Corrections (n= 1.335; 2020-2024)

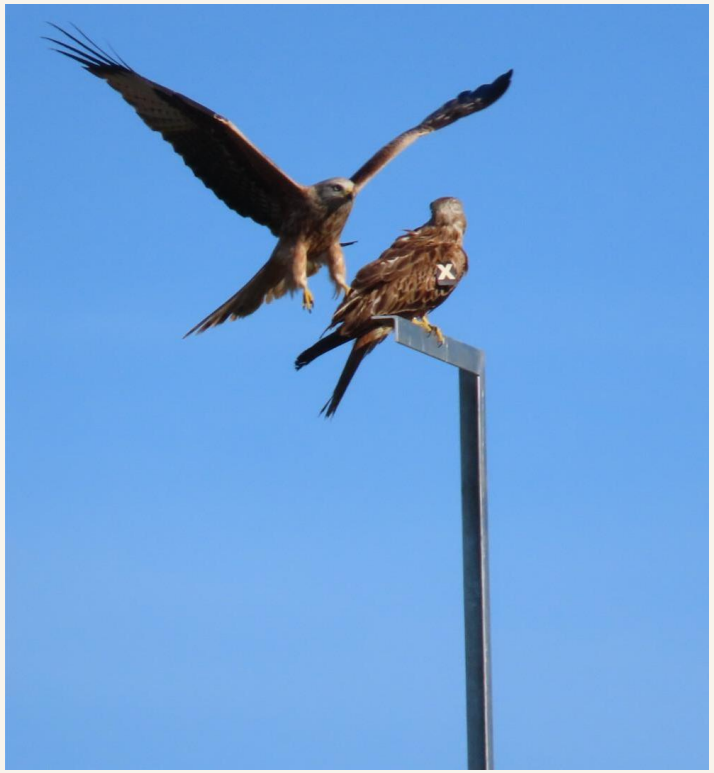
NO RED KITES ELECTROCUTED

PROACTIVE RESPONSE: Minimization of mortality

endesa







ACTIVE RESPONSE: Minimization of mortality

RED ELÉCTRICA DE ESPAÑA



Red Kite P24

Died after the collision with a high voltage power line

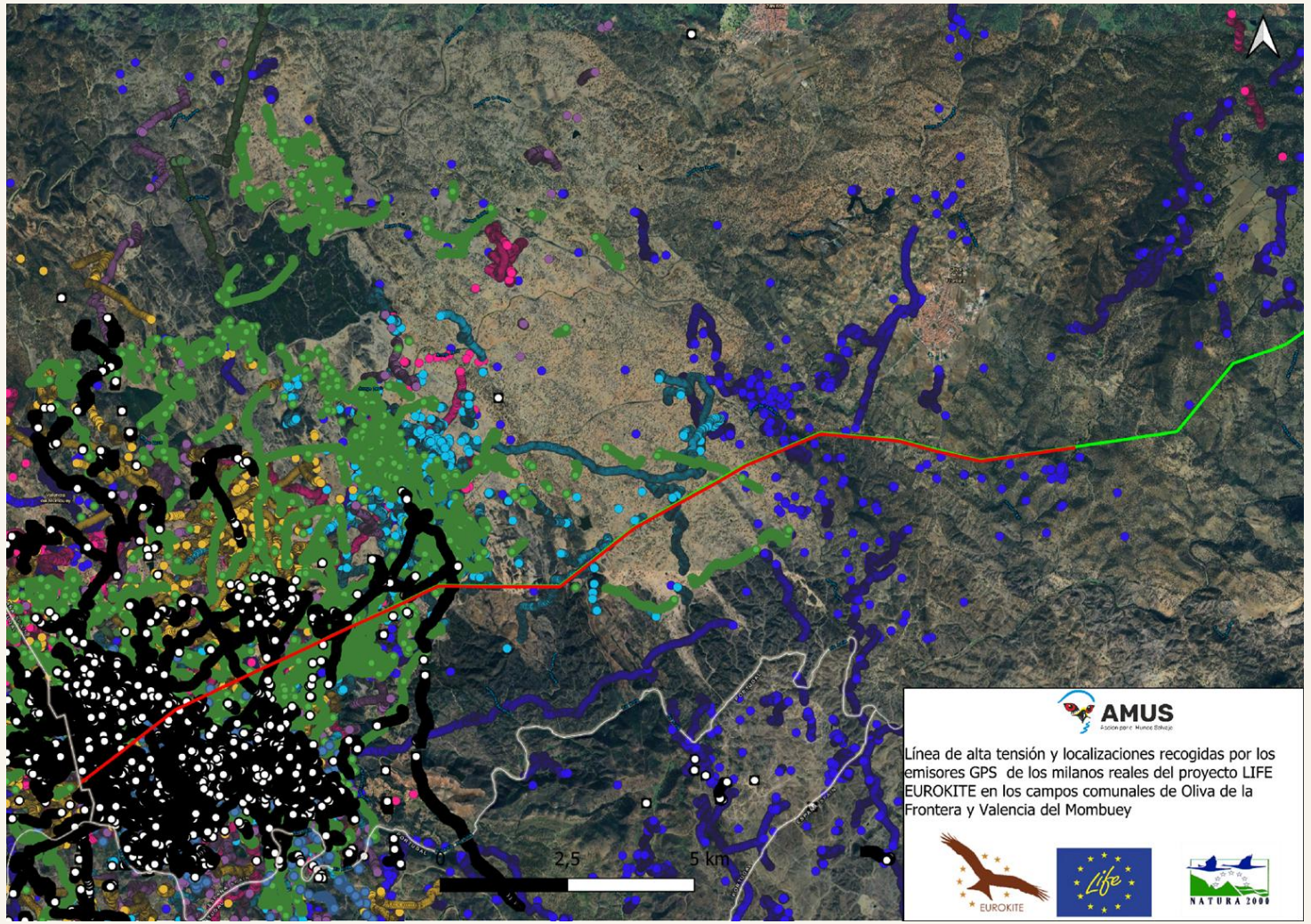


ACTIVE RESPONSE: Minimization of mortality

RED ELÉCTRICA DE ESPAÑA

13 km of high voltage power line are marked with visual devices only 2 weeks after the red kite collision

NO RED KITES´ COLLISIONS AFTER THE CORRECTION



ACTIVE RESPONSE: Minimization of mortality

Red kite released from the breeding program of the Regional Government of Aragon is electrocuted with the power line of the railway Madrid-Barcelona (Aragón region NE Spain)



This birds was breeding (incubating) but the fast detection allowed the rescue of the eggs, hatch the nestlings and release them



Correction of 17 electric pylons

PASIVE RESPONSE: No correction / No reply





Red Kite C23: Died after the collision with a power line from the windfarm Merengue 1 (Cáceres province, Extremadura región)

The company never replied our mails

PASIVE RESPONSE: No correction / Delayed correction



First red kite nestling hatched in southern Portugal (from released red kites) in the last 2 decades was electrocuted just after leave the nest

The electric company suggests:

- The payment of correction with the Eurokite LIFE funds.
- To wait to new projects to get funds.

Finally, the electric pylon will be corrected in 2027, with some others pylons in the area and after the collaboration of portugueses NGO QUERCUS, with the LIFE PowerLines4Birds project funds.



LESSONS LEARNED

- It is strongly recommended to establish contacts in advance with the electric companies.
- To collaborate in the planification of the corrections (ONGs, authorities, power lines´ owners, etc).
- Report the mortality to wildlife authorities and power line´s owner.
- If power lines owner don't´ implement the correction after a bird electrocution/collision, report/claim wildlife authorities/courts.
- Improve the legislation



Red kites © Hansruedi Weyrich

Thank you for your attention!

www.life-eurokite.eu



Tagged Red Kites
© AMUS

Coordinating beneficiary

EUROKITE

The TB Raab GmbH was commmissioned to implement the LIFE EUROKITE project after a pan-European public tender.

TB Raab Technisches Büro für Biologie

MEGEG

Project partner

AMUS Acción por el Mundo Salvaje

Austrian Power Grid APG

amprion

Rotmilan Zentrum am Museum Heineanum

ČSO

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Viceconsejería de Medio Ambiente
Consejería de Agricultura, Medio Ambiente y Desarrollo Rural
Plaza Cardenal Silíceo, nº 2 – 45071 Toledo

OCHRANA DRAVCOV NA SLOVENSKU

SEO BirdLife

ZÁPADOSLOVENSKÁ DISTRIBUČNÁ

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Cooperation partner

Additional cooperation partners for specific research questions in the field of renewable energy

This project is co-financed by the LIFE Nature Programme of the European Union