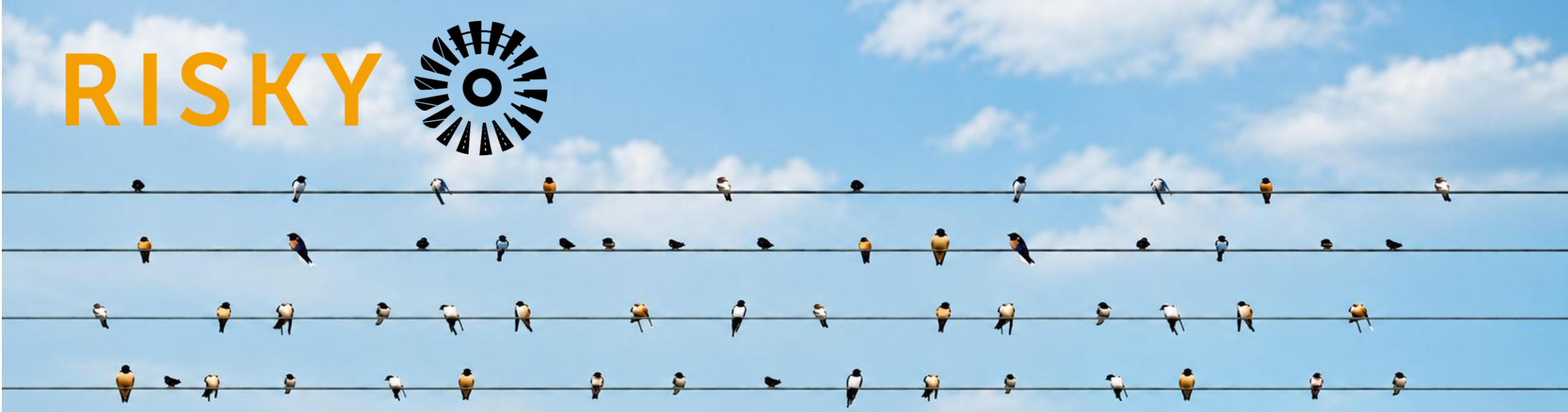
RISKY



RISKY: Building a Global Open Platform for Wildlife Mortality at Energy Infrastructures

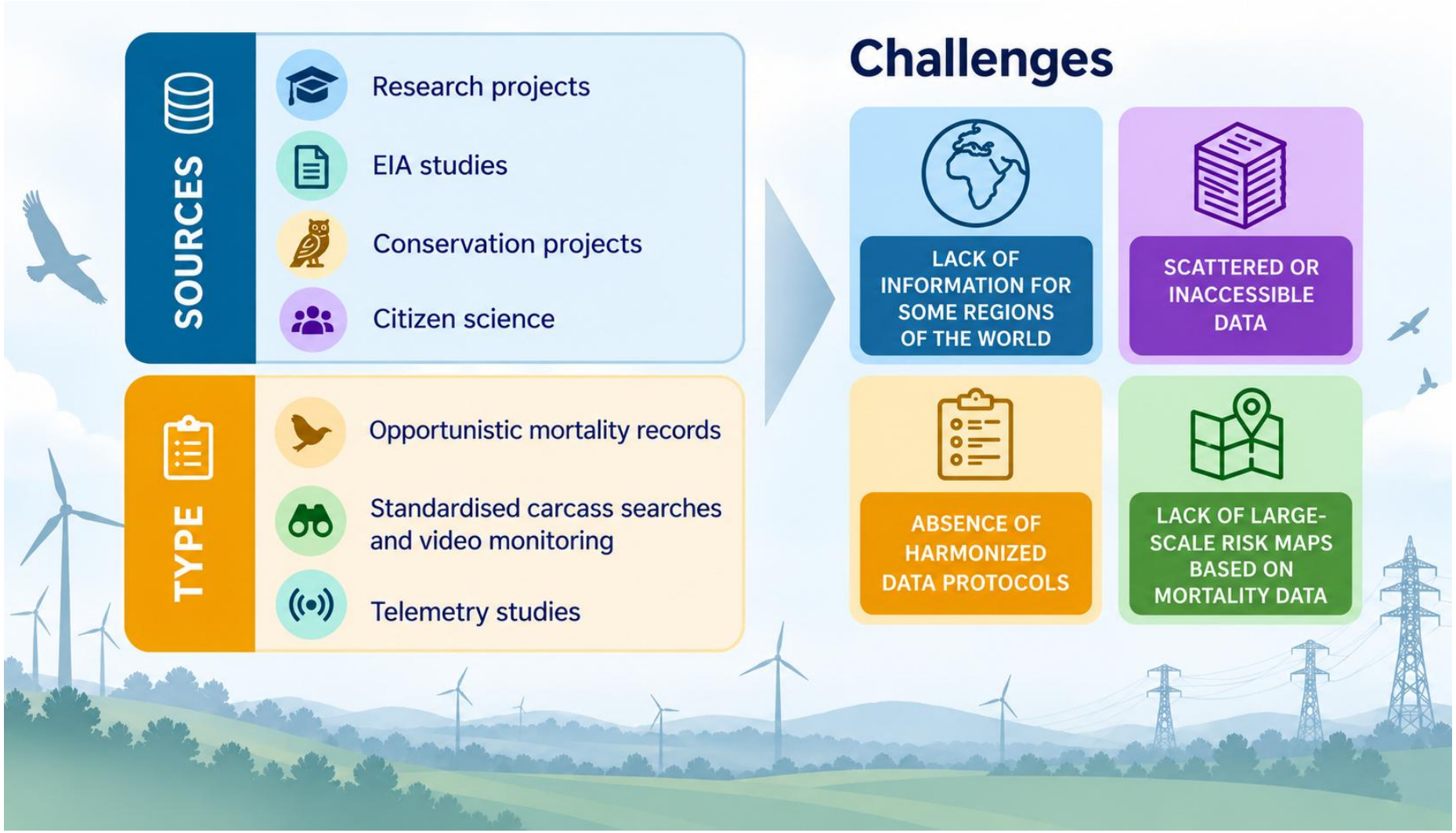
Joana Bernardino, Ana Teresa Marques,
Filipa Coutinho Soares, Tomé Neves, Inês Fonseca & Clara Grilo

BIOPOLIS cibio



Mortality data

Availability and Usage



RISKY



1

Global records

Mortality observations from multiple countries and organizations

2

Data harmonisation

Compile, validate and standardise datasets

3

Risk modelling

Relate mortality patterns to infrastructure and species

4

Global risk maps

Identify hotspots and guide mitigation



The RISKY platform

Open-access platform to explore, visualise and analyse global data on wildlife mortality risk.

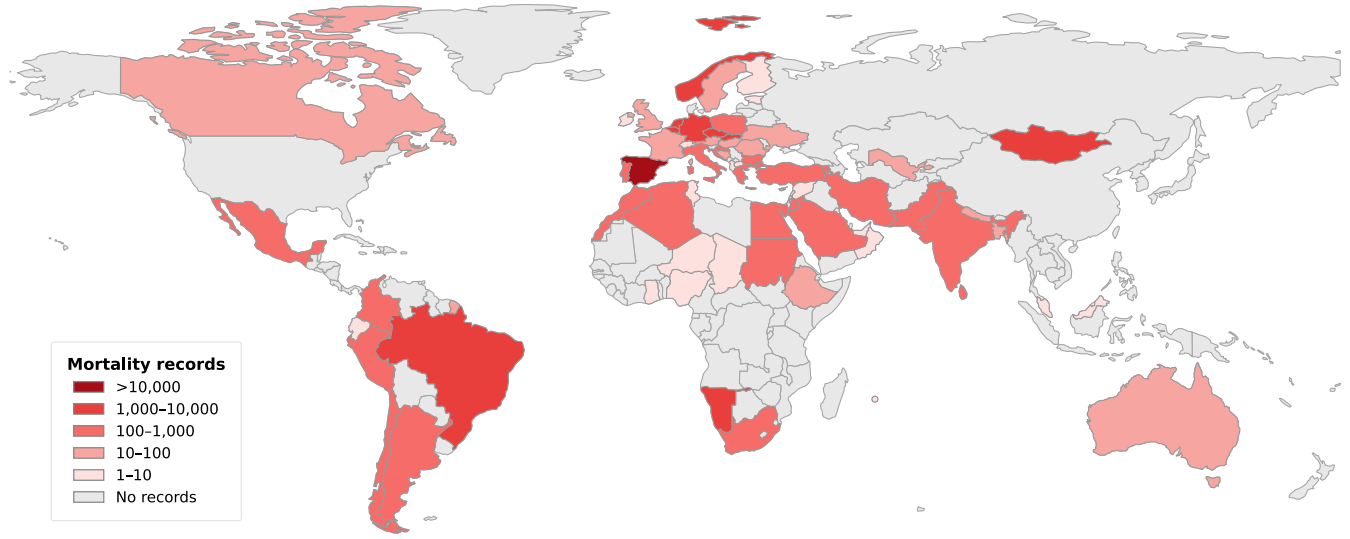
- Interactive maps
- Harmonised datasets
- Analysis tools
- Data access

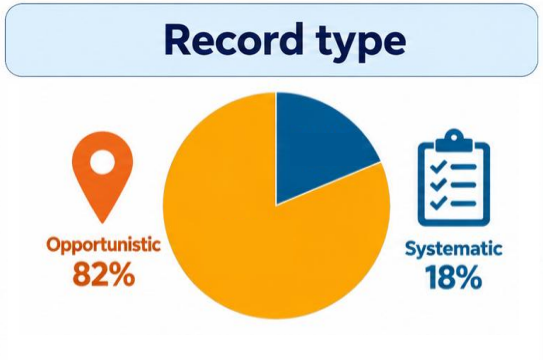
Mortality locations

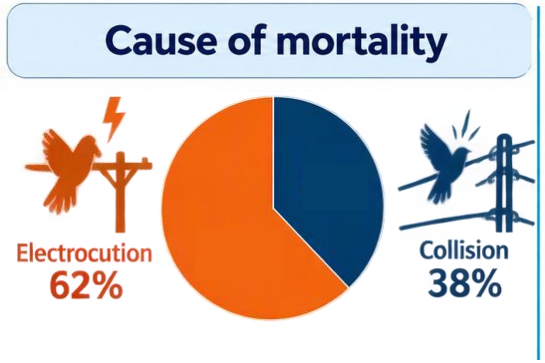


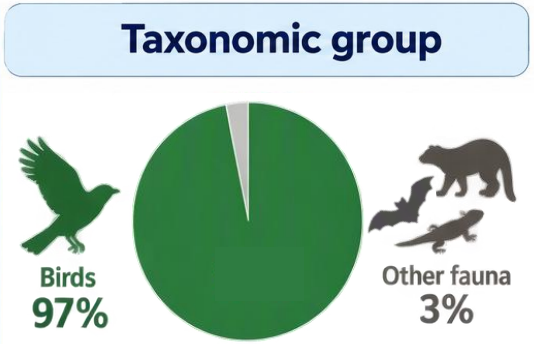
Mortality locations







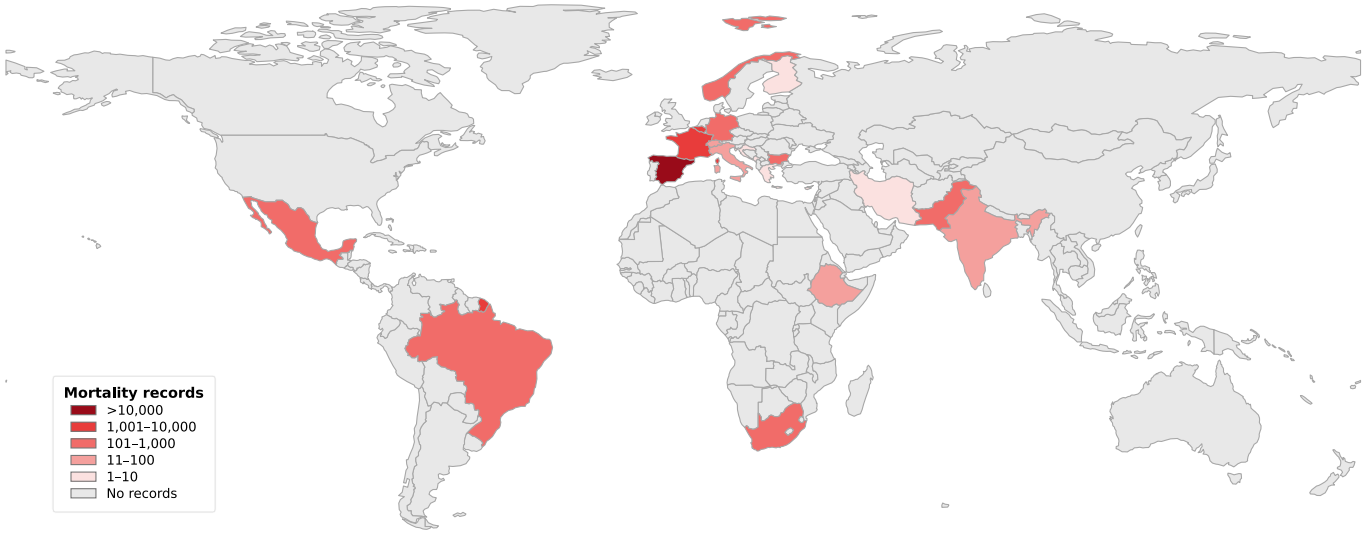


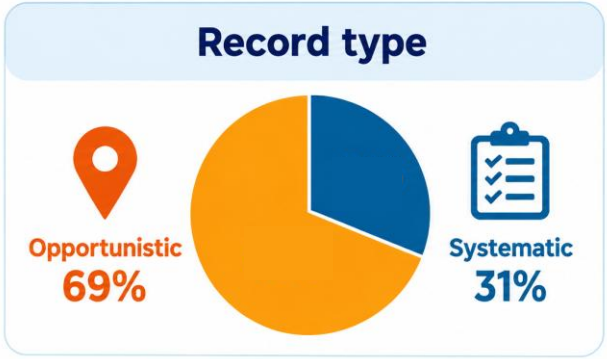


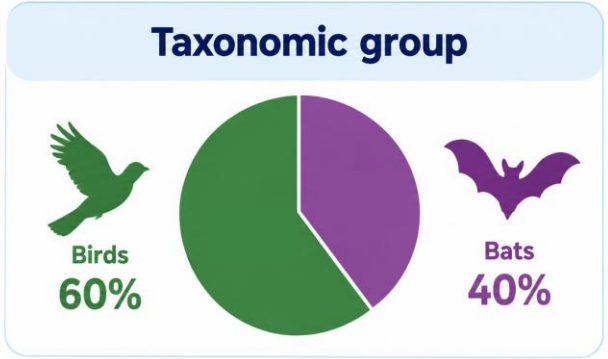
Other variables: Record Date; Species; Power line type, Voltage; Configuration; Mitigation measures; Survey type & effort.

Mortality locations









Other variables:

Record Date; Species; Turbine type, Turbine power; Nacelle height; Mitigation measures; Survey type & effort.

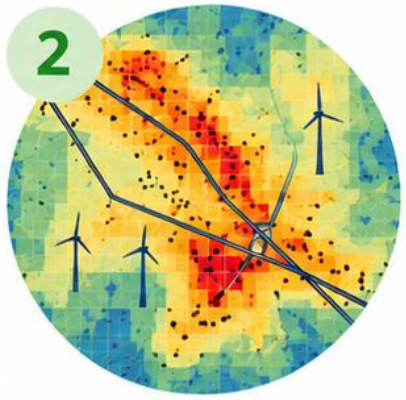
From data to knowledge



1

How much?

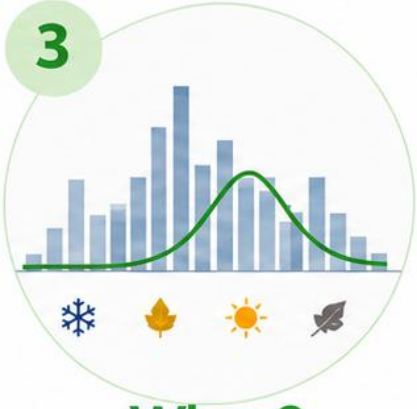
Magnitude of mortality (collision and electrocution)



2

Where?

Spatial patterns and hotspots around power lines and wind farms



3

When?

Temporal patterns and seasonality



4

Why?

Drivers and risk factors (e.g. infrastructure design, environmental conditions, species traits)



5

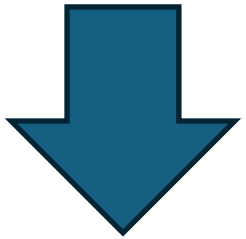
Population consequences?

Impacts on populations and species conservation status

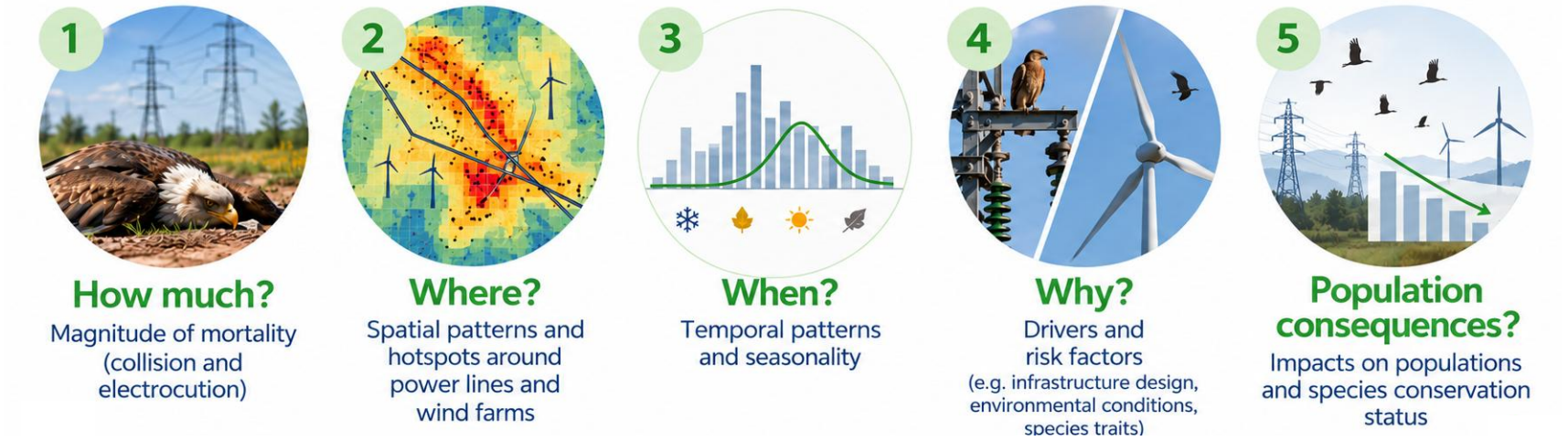
These questions help to support where interventions are most needed, what measures may be most effective and which impacts are most important to address.

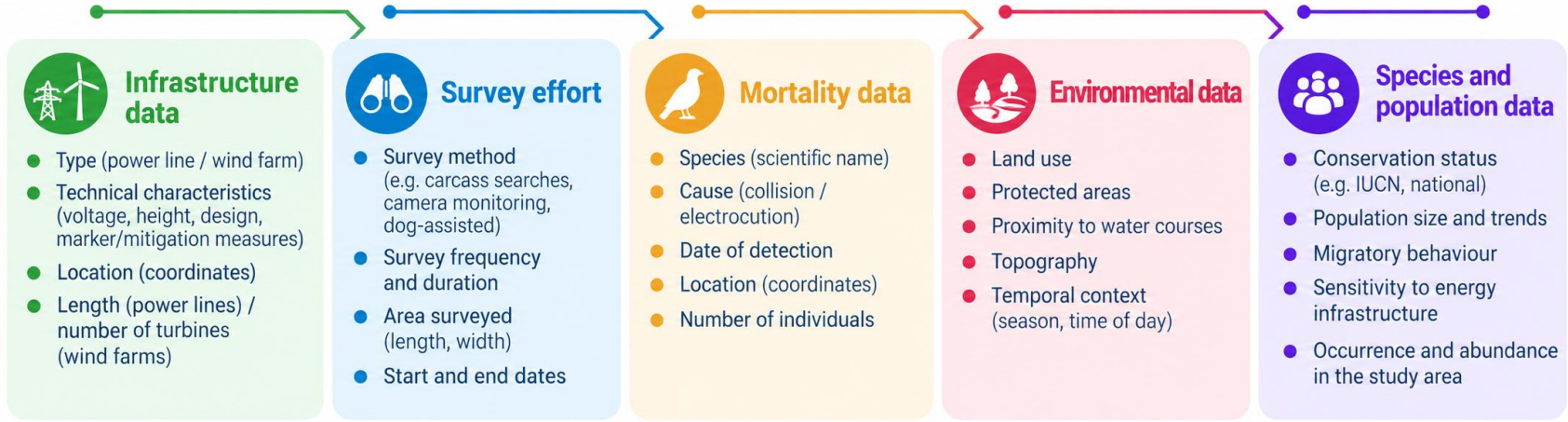
From data to knowledge

Questions



Collect the right information

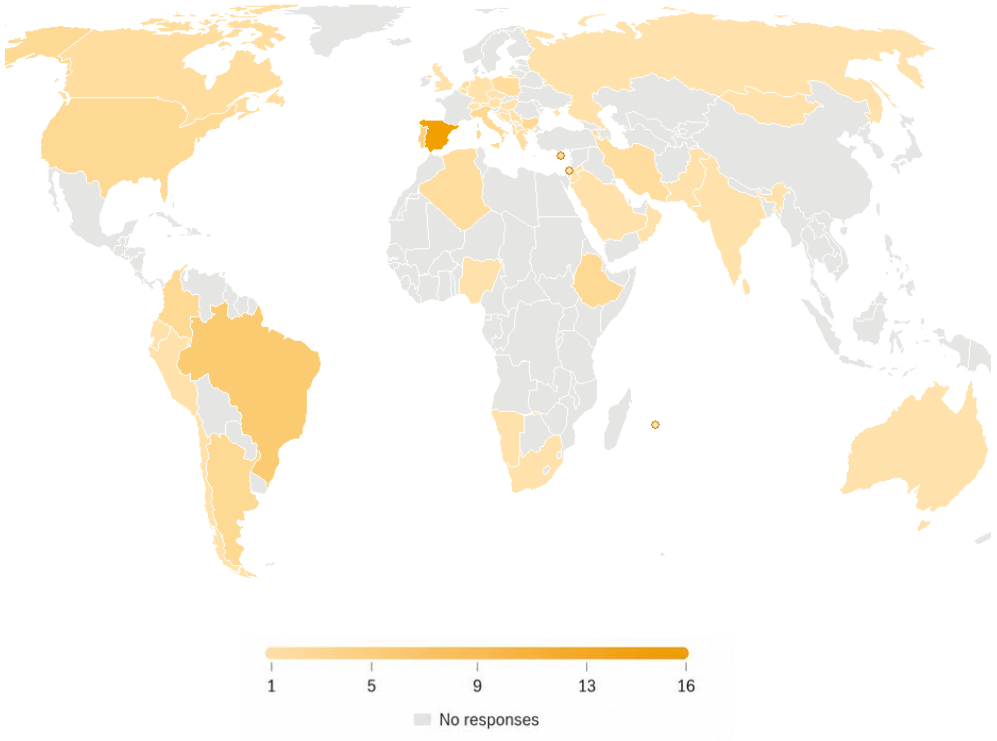


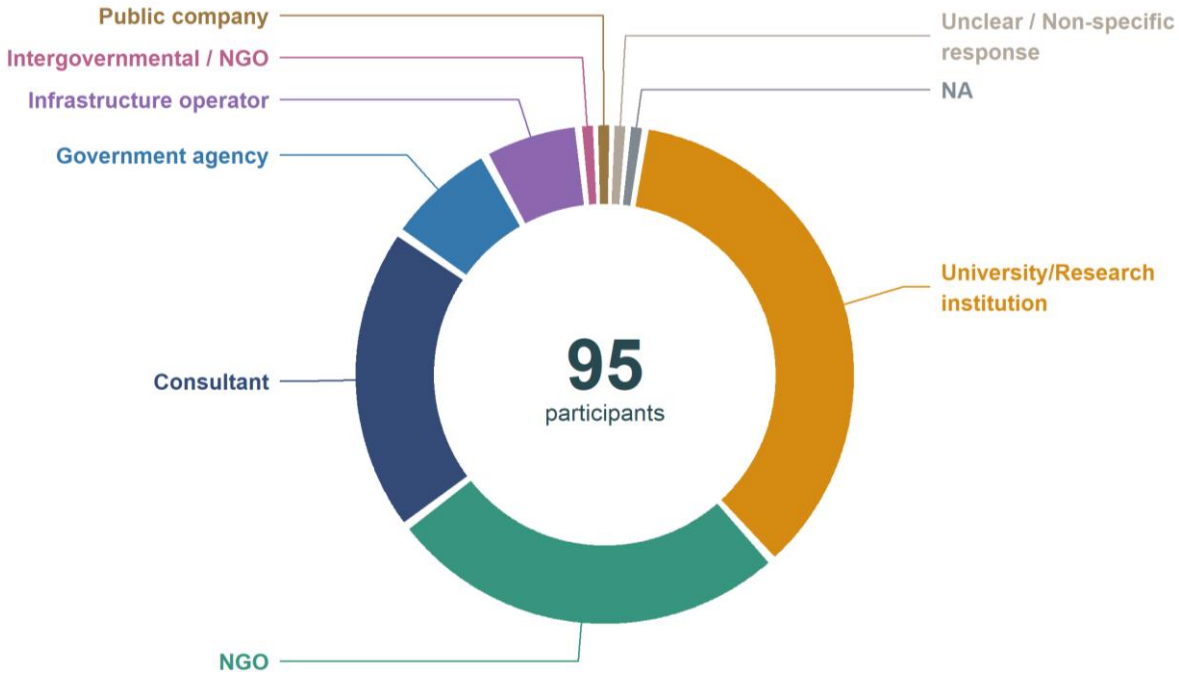


From data to knowledge

RISKY Questionnaires

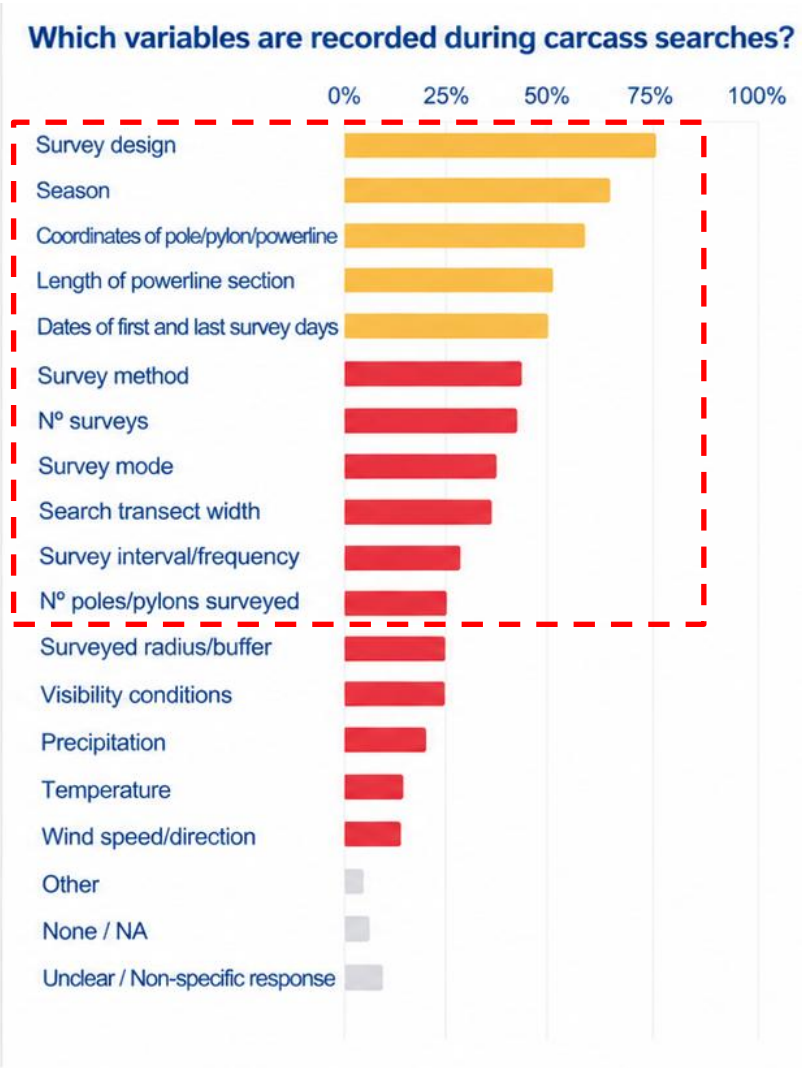
POWER LINES

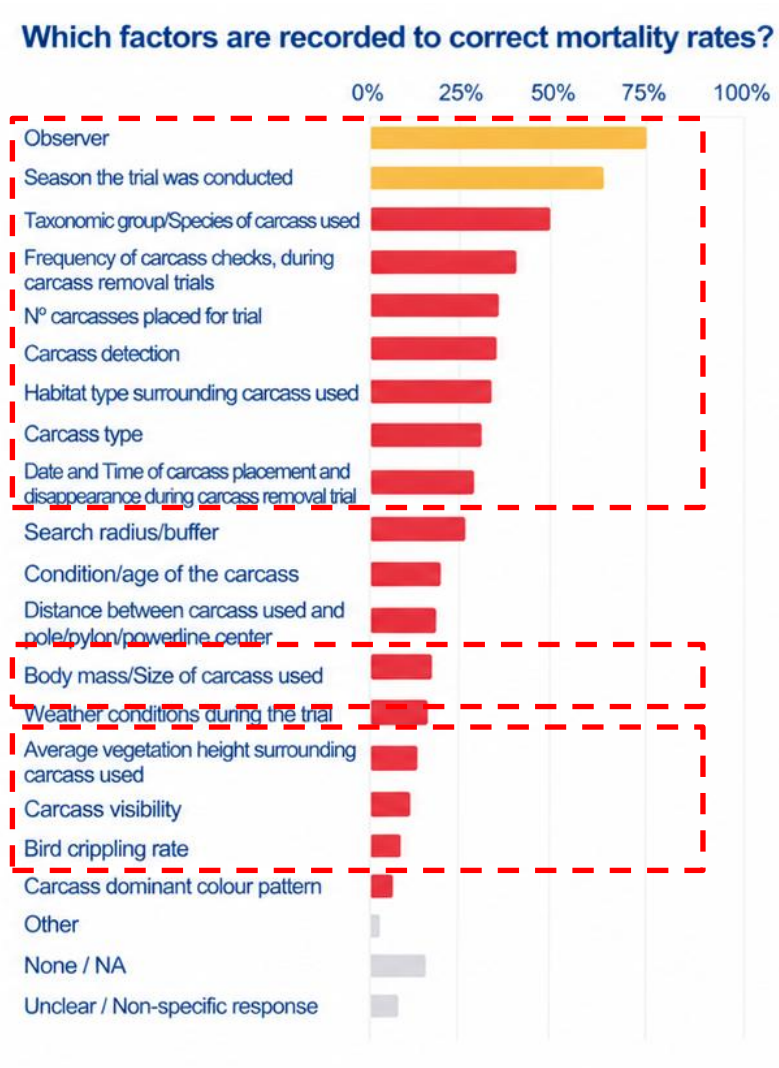




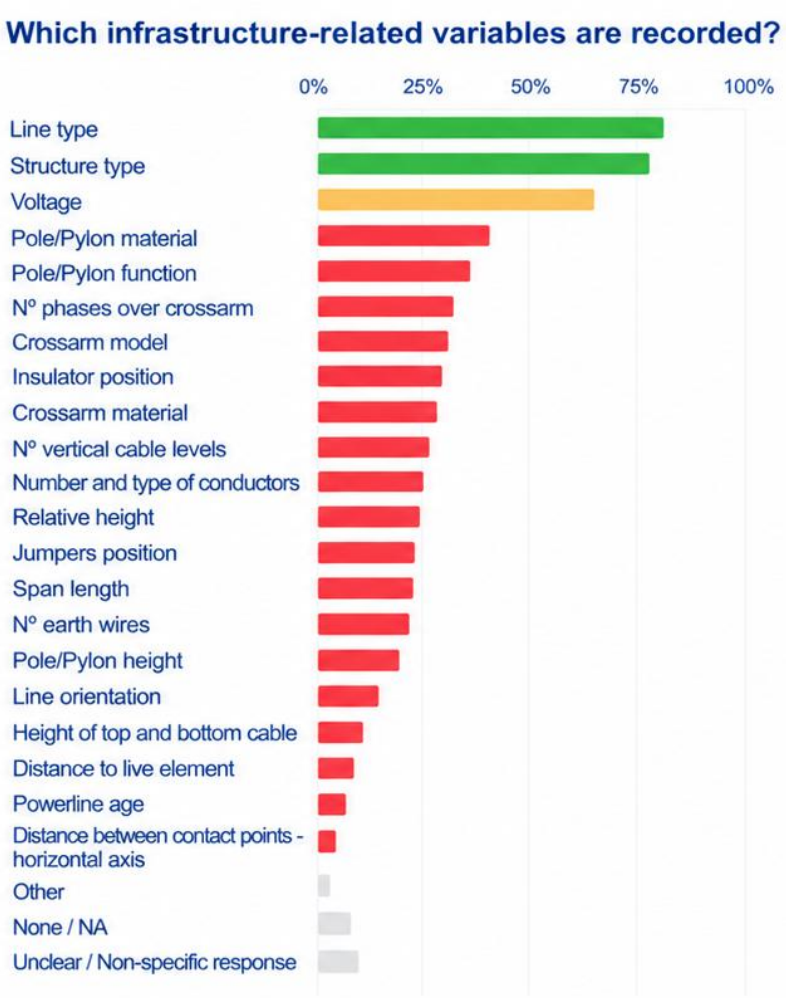
From data to knowledge

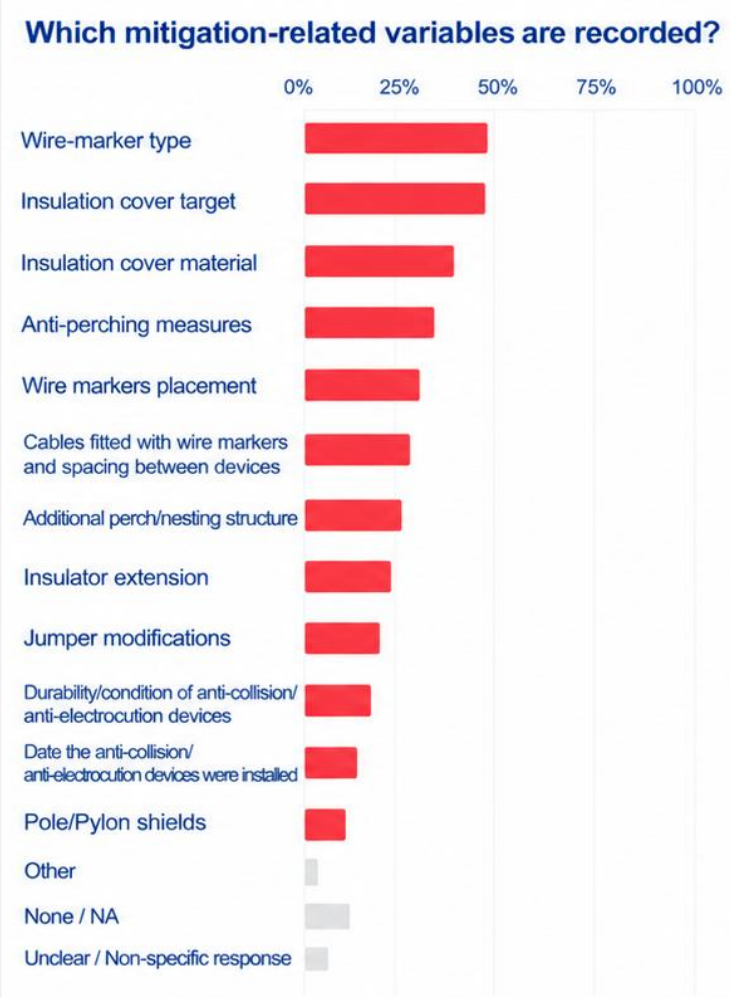


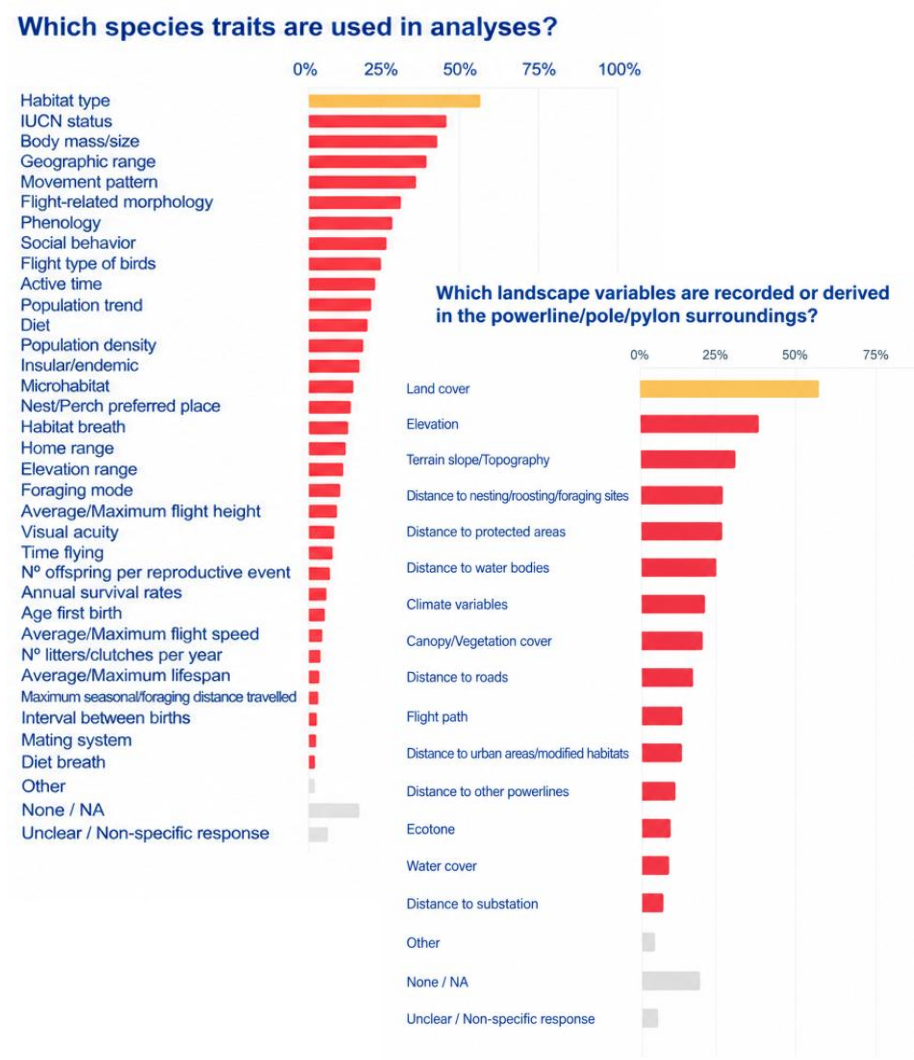




From data to knowledge







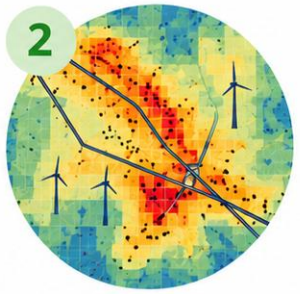
From data to knowledge



1

How much?

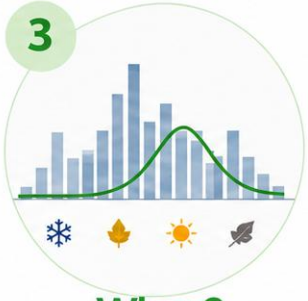
Magnitude of mortality (collision and electrocution)



2

Where?

Spatial patterns and hotspots around power lines and wind farms



3

When?

Temporal patterns and seasonality



4

Why?

Drivers and risk factors (e.g. infrastructure design, environmental conditions, species traits)



5

Population consequences?

Impacts on populations and species conservation status

Infrastructure data

- Type (power line / wind farm)
- Technical characteristics (voltage, height, design, marker/mitigation measures)
- Location (coordinates)
- Length (power lines) / number of turbines (wind farms)

Survey effort

- Survey method (e.g. carcass searches, camera monitoring, dog-assisted)
- Survey frequency and duration
- Area surveyed (length, width)
- Start and end dates

Mortality data

- Species (scientific name)
- Cause (collision / electrocution)
- Date of detection
- Location (coordinates)
- Number of individuals

Environmental data

- Land use
- Protected areas
- Proximity to water courses
- Topography
- Temporal context (season, time of day)

Species and population data

- Conservation status (e.g. IUCN, national)
- Population size and trends
- Migratory behaviour
- Sensitivity to energy infrastructure
- Occurrence and abundance in the study area

Collaboration between operators, consultants, NGOs and researchers becomes essential.

The RISK platform

RISKY

News & Events Join Us

RISKY EXPLORE ANALYTICAL TOOLS SENSITIVITY MAPS CITIZEN SCIENCE APPS SCIENCE & SOLUTIONS

HOME

Explore

Open Access Data



Search Mortality Data

Find and filter wildlife mortality data by species, location, infrastructure type and other criteria, and download the data for further analysis.

Search data



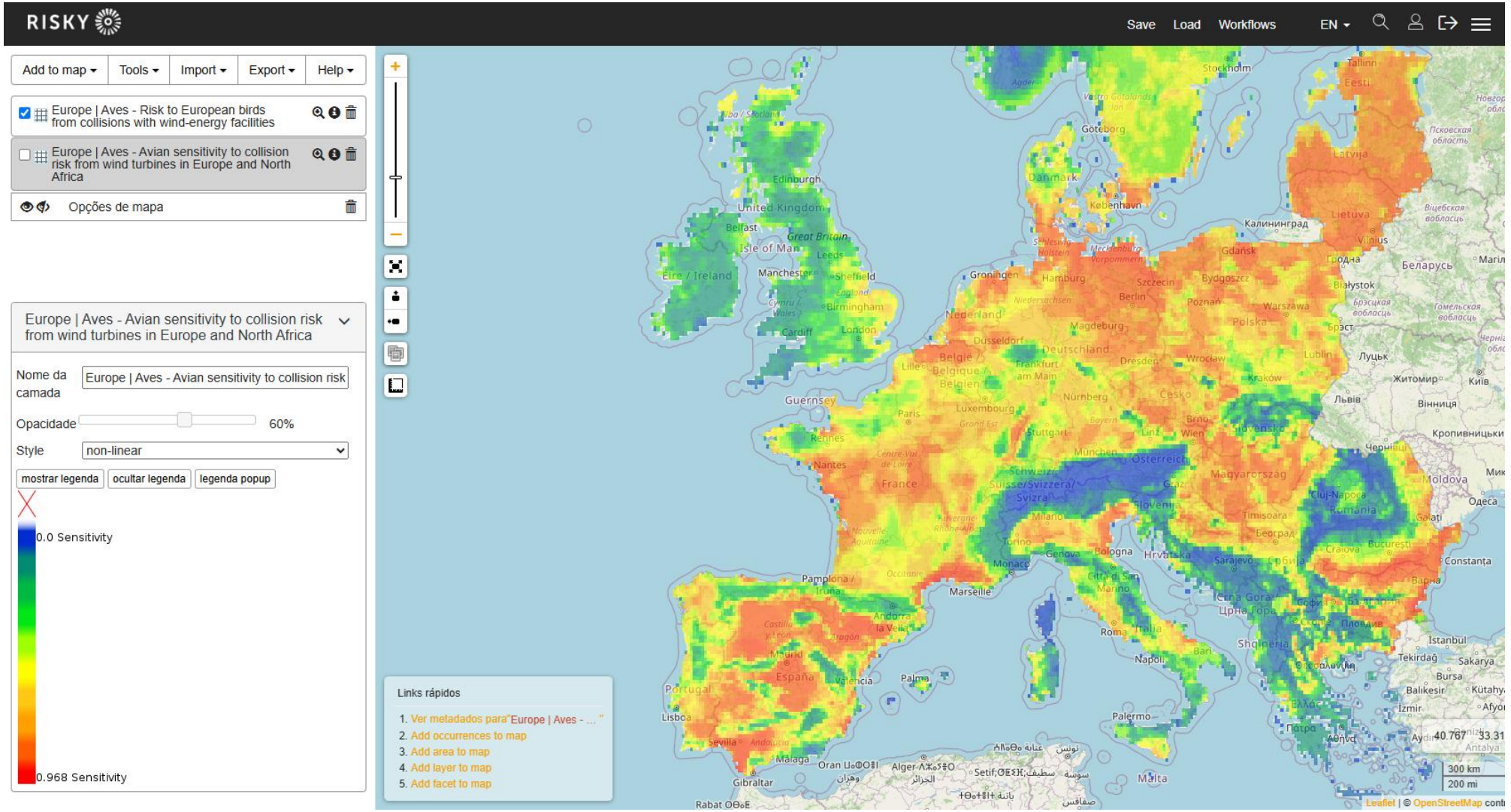
Explore the Map

Discover spatial patterns of wildlife mortality and sensitivity through an interactive global map. Search, visualize and download mortality data and sensitivity maps.

Explore map

The RISK platform

WIND FARMS



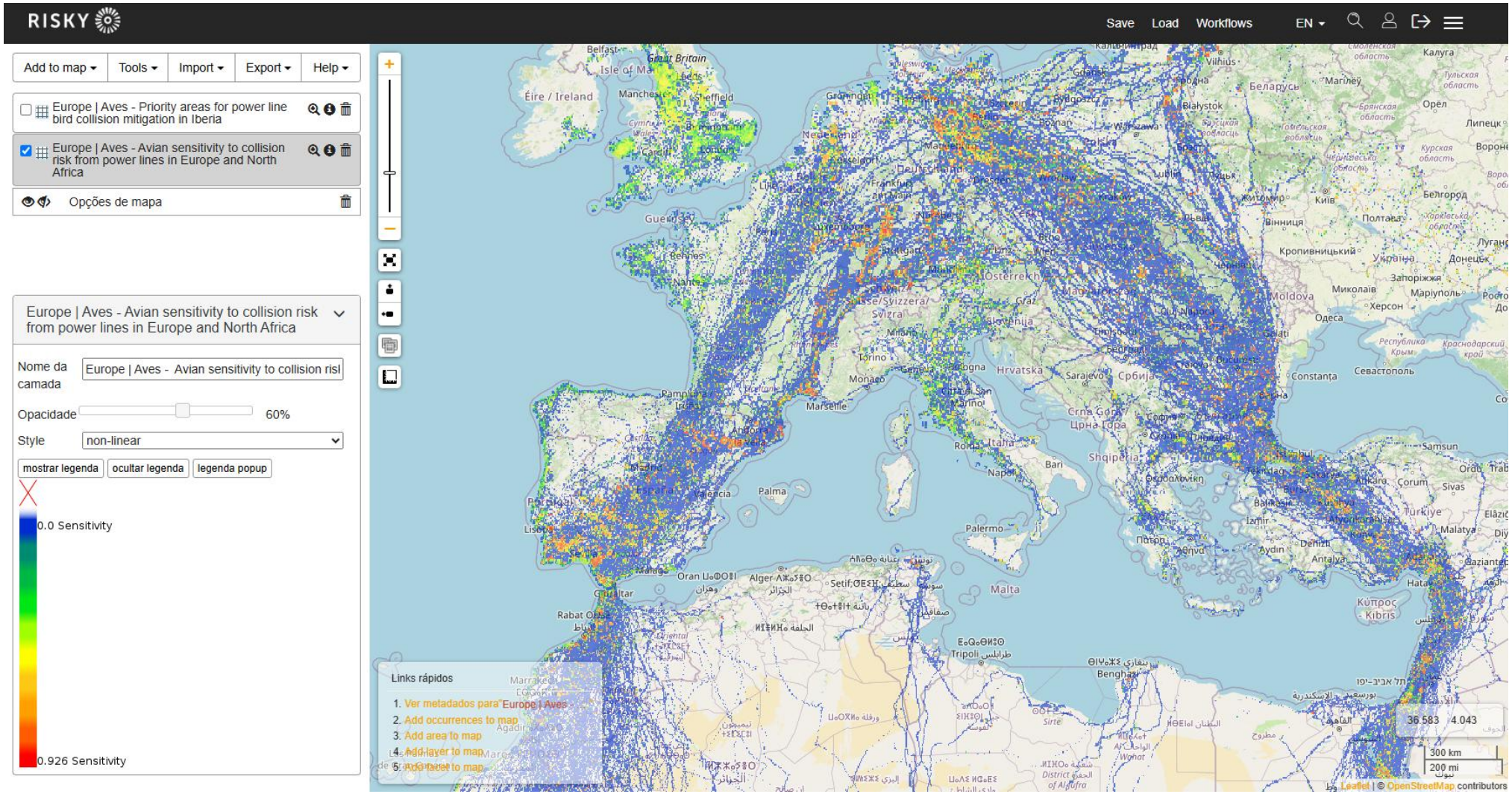
Etard *et al.* (2026)

https://doi.org/10.1016/j.biocon.2026.111875

'WIMBY' project

The RISK platform

POWER LINES



Gauld *et al.* (2022)

https://doi.org/10.5061/dryad.jm63xsjcw

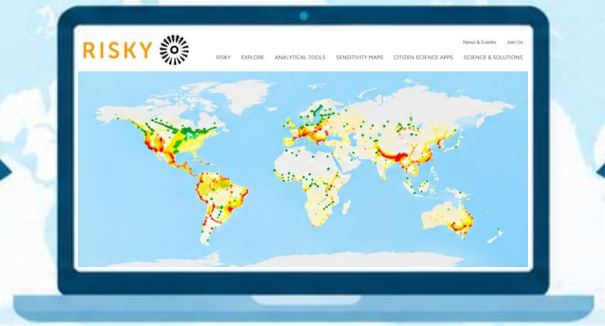
RISKY

Sensitivity maps



Harmonised datasets

Analysis tools



Cooperation

Open-access platform to explore, visualise and analyse global data on wildlife mortality risk.

Contribute with more data!

Join the global community!

THANK YOU FOR YOUR INTEREST!

RISKY

www.risky.pt

Joana Bernardino

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BIOPOLIS cibio

BIOPOLIS Global Biodiversity Information Facility PORTUGAL Cerema UMR 5175 Centre d'Écologie Fonctionnelle & Évolutive OFB Office Français de la Biodiversité Renewables Grid Initiative

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OSCARS Open Science Clusters' Action for Research & Society

Funded by the European Union