Combining technology and citizen science to run a new National Hedgehog Monitoring Programme

Emma Cartledge

people's trust for species















The National Hedgehog Monitoring Programme is run by People's Trust for Endangered Species and The British Hedgehog Preservation Society, in partnership with Nottingham Trent University, Zoological Society of London, London Hogwatch, MammalWeb and Durham University, and co-funded by Natural England.

What?

National Hedgehog Monitoring Programme (NHMP)

3 year pilot project (2023 – 2026)

Aim: produce robust population estimates (habitats and time), contribute to conservation planning

















Why?

Hedgehogs are of conservation concern

Uncertainty around current estimates & survey limitations

Need for **consistent** methodology across habitats

















Data collection



x 30 cameras for 30 nights









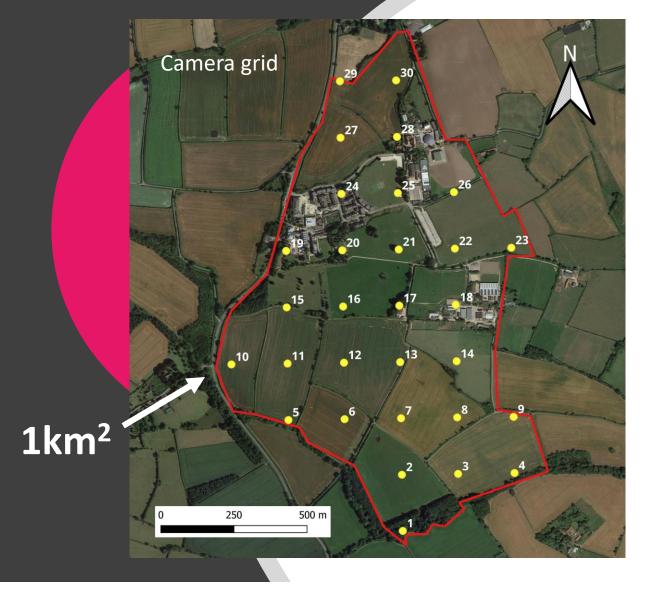






























Data collection

How?

x 30 cameras for 30 nights

40 sites across GB

Volunteers & citizen scientists

NHMP team

Regional hubs

Survey sites

Volunteers







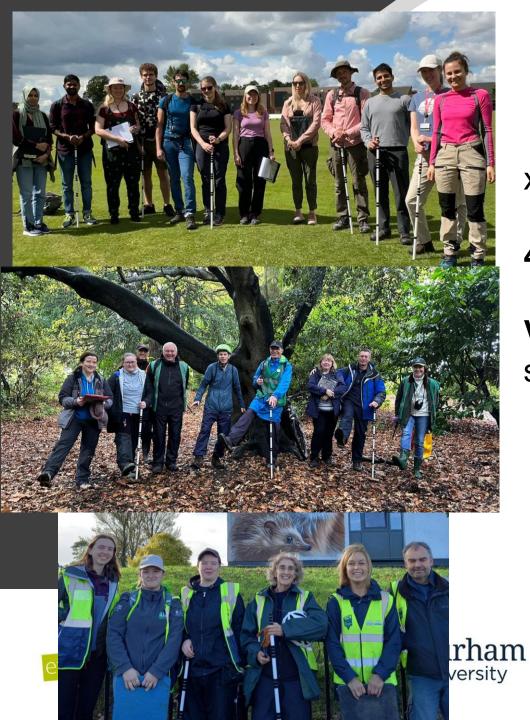












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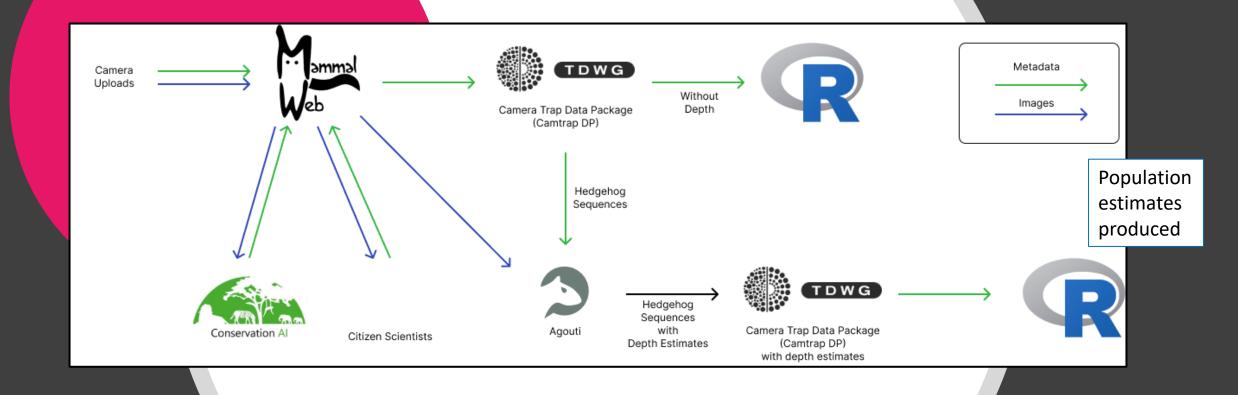




























English (United Kingdom)

NHMP: National Hedgehog Monitoring









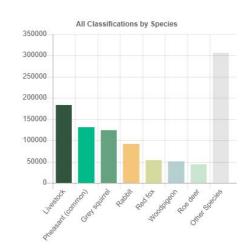












Hov



This project is available for public Spotting but Trapping is restricted. If you would like to join this project as a Trapper please contact us at info@mammalweb.org.

Q Classify This Project

This novel programme will produce robust national population estimates for the much-loved hedgehog.

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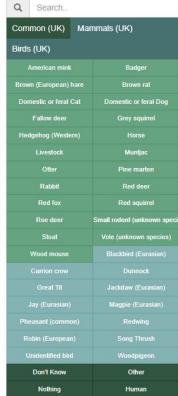




What do you see in this sequence?



















x 30 cameras for 30 nights

MammalWeb, ConservationAl & citizen science

Random Encounter Model



















Random Encounter Model, requiring a calibration step

analytical tool that allows for estimating the density of animals without the need for individual recognition















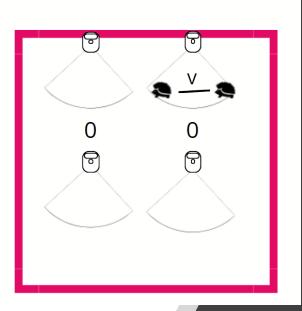




Random Encounter Model, requiring a calibration step

The model requires data on:

- trapping rate
- animal speed (v)
- camera trap detection zone



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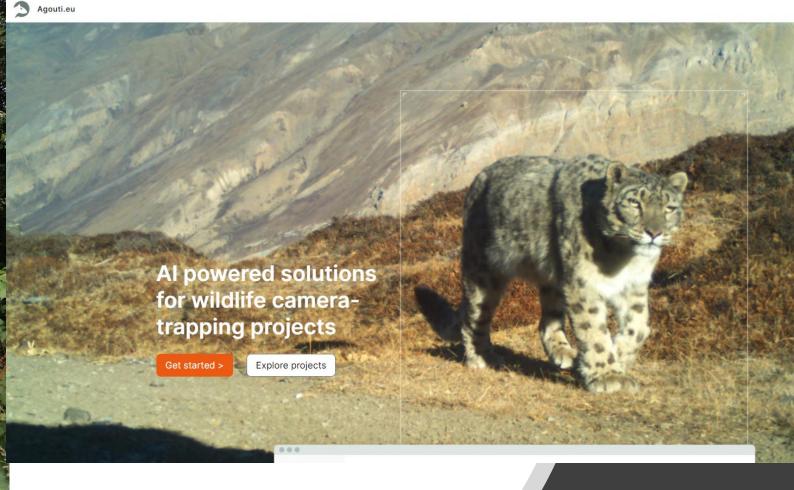












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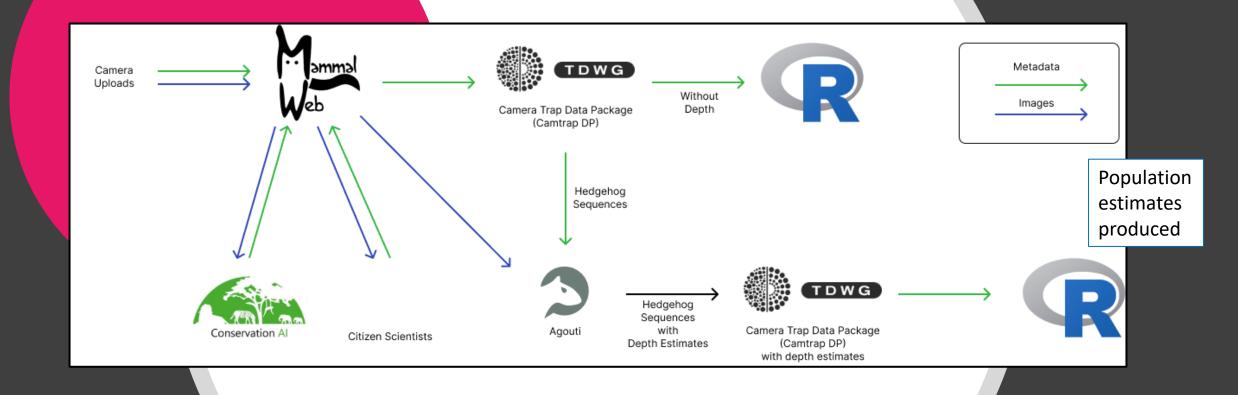


















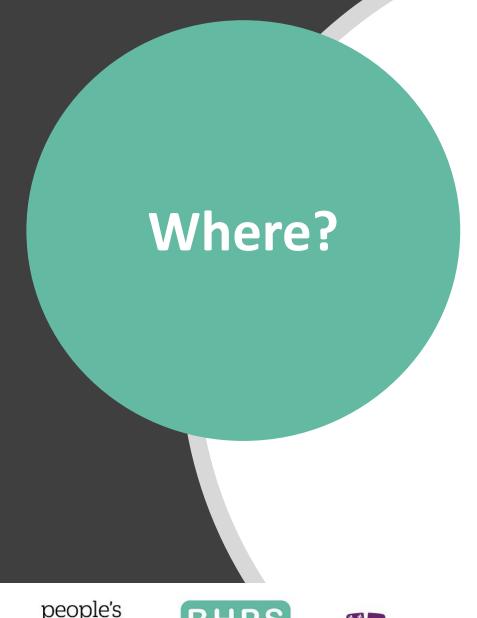






















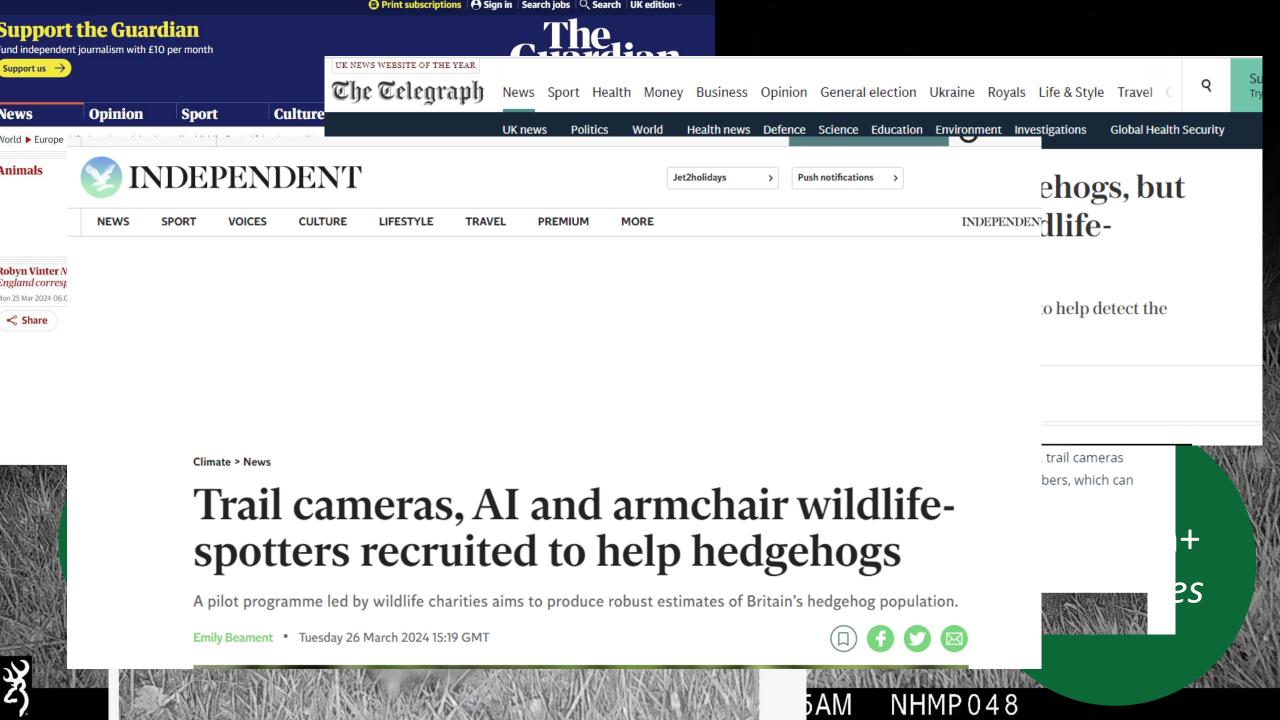












Challenges

- Camera use efficiency/hub recruitment
- Habitat representation
- MammalWeb activity
- Spotter/Al accuracy













































Acknowledgements

- Project team
- Funders
- Volunteer hubs & volunteers
- Spotters

















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