

Elements to consider

Awareness of 'the ask'

Motivation to take part

Barriers to participation

Any specialist skills needed

Sustaining engagement



Awareness of 'the ask'

- Understand your audience
 - who do you need to reach?
- How can you reach them?
 - direct communications
 - 'media'
 - via Gatekeepers?
 - web searches
- Is this 'here and now' or longer term?
 - impact on strategy
 - resource implications



































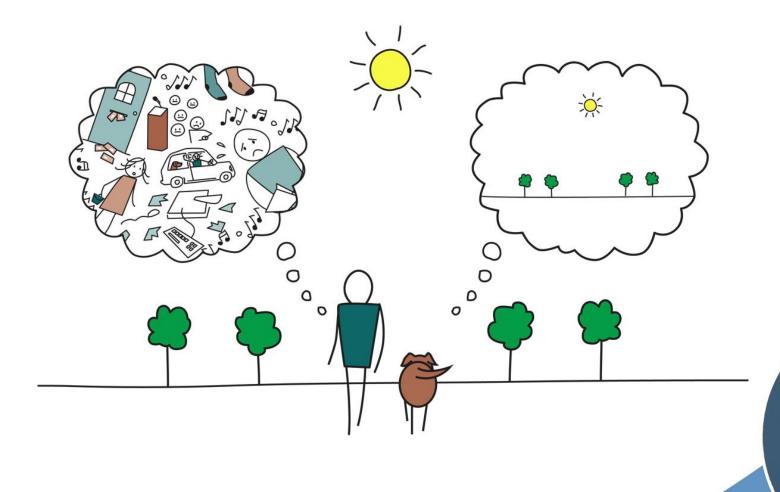






Motivation to take part

- Again understand your audiences
- Recognise any differences between audiences





Motivation to take part - diversity

wanting to learn or share knowledge

Understanding



Resonance

To inspire action you need to resonate:

"your raptors are under threat..."

"what is happening in your local area?"

"you could be part of this team..."

"are your children being exposed to toxins?" "if you love raptors then..."

you could help us to uncover these mysteries..."

Motivation to take part

"I want to help the birds in my org local area" "Is it possible to set up a monitoring framework to detect future changes?"





- What does success look like?
- Co-production?



Barriers to participation

Again - understand your audiences...

- awareness of 'the ask'
- unconvinced of value
- method (time, complexity, weight)
- lack of understanding (e.g. method)
- money (e.g. additional travel)



inertia / history / culture



Gatekeepers
Peer advocates
Patience...



Specialist skills – training and information

- Is the method as simple as it could be?
- Are the methods clearly explained?
- YouTube videos
- Mentors / peer-to-peer
- Training courses





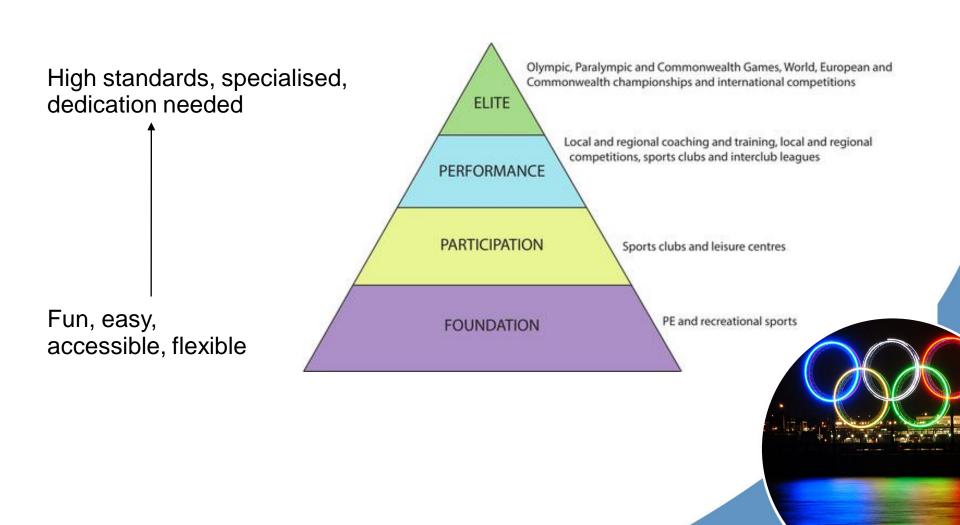
Keeping your volunteers happy...

- Use the data/samples
- Feedback ideally both rapid and rich
- Facilitate interaction (multi-directional)
- Efficient data/sample collection
- Training/development
- Variety/flexibility motivations & barriers can change
- Recognition/reward

All of this requires **ongoing resources**

Progression pyramid

How to ensure adequate future skilled resource Engagement → progression

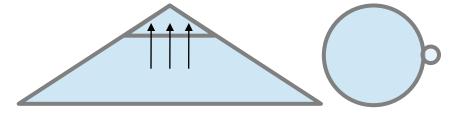


Example 1 – Tawny Owls



Aims:

- Population estimate and index of change
- Mass-participation for engagement (though meaningful)





"help us to estimate



pancy a

How to record the owls: During each 10 minute point count you should remain stationary and record the number of Tawny Owls heard hooting and calling. At the end of the period an assessment of the total number of territories "heard" during each separate point count period should and calling, At the end of the period an assessment of the total number of territories, means during each separate point count period should be considered independent and entirely separately. be made, due to the need to compare results with past surveys each count period should be considered independent and entirely separately when calculating the number of territories. For example, should owls be heard from consecutive point counts in such a way that you believe they when carculating the humber of territories, for example, should owns be read that the consecutive point counts in such a way that you believe they great entirely different territories but they did not hoot/call within the same 10 minute point count this <u>must</u> be recorded as one territory per represent entirely orderent territories but they am not mouycan within the sente to minute point count, and must be recorded as one deritories present. Likewise should you hear an owl in the first point count but not in the point count, regardless or it you believe there are more termines present, takewise should you near an own in the mst point count out not in the second (or vice versa) it is important to record territories estimates of one and zero respectively. The criteria for the identification of a territory are:

- Hooting bird with calling bird at distance of less than approximately 300m of each other.
- Hooting bird with second bird hooting softly in response less than 300m apart. These last two categories both represent the male and female Two hooting or calling birds more than approximately 300m apart sh

even if less than 300m apart, they show

INSTRUCTIONS FOR VOLUNTEERS

Tawny Owl Point Survey 2018/19 WITT WE ARE USING 1773 SURVET

Despite being widespread across Britain, Tawny Owls are one of our less understood breeding species. BTO's core monitoring schemes are daytime.

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SUVEYS, SO are not able to adequately monitor our core surveys suggest that Tawny Owl popul doing by carrying out periodic targeted survey on these previous surveys, with the intention

relative abundance in Tawny Owl populations Tawny Owls are most detectable in the autu To help relate the autumn counts to the nu March 2019. We also plan to repeat the su year to year, by collecting information from breeding success derived from other BTC

WHAT WE WANT TO ACHIEVE

We want to provide reliable data on Ti and which can be repeated in future

To compare with the results fr To compare Tawny Owl occur data submitted for ~2,900 tetrads

"Occupancy was around 63–64% in 1989 and appears to have dropped to 54%"

ecorded as two territories. If two birds are hooting loudly together, represent two males in a territorial dispute. A set of illustrative forget to record zeros if you don't hear an owl during a point count, counts not only tell us about how well we detect owls that we ying us to examine why that may be, especially if they were present

em. For this you note the amount of cloud over your position. Then divide the bowl oud. Under the system we are using 0 =nost 100% cloud (mostly cloudy) and



pecies heard/seen during the point counts, their presence or you didn't listen out for them or don't feel confident in your ce of other nocturnally active birds and wild mammals, such e entirely optional. The bird records will be used to inform ords will be submitted to the Mammal Society. Therefore any

er as you go along) please input your survey data into the full by the 15 December. Alternatively please forward your 15 December. Please only submit your survey data by one

urbanisation. Where to count: The Tawny Owl Point Survey aims to cover a selection of 202km survey squares (known as "fetal of the count. The Tawny Owl Point Survey aims to cover a selection of the count to the country of the coun Where to count: The Tenny Owl Point Survey aims to cover a selection of 200km survey squares (known as "retraits") has only a selection of 200km survey squares (known as "retraits") of the species. Based on past survey coverage, a nationwide selection of target tetrads has been produced with two different level of the species. Based on past survey coverage, a nationwide selection of target tetrads has been produced with two different level of the species. Based on past survey coverage, a nationwide selection of target tetrads has been produced with two different level.

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auturn survey period. This request will then be approved by your Regional Organiser and you'll be all set for the survey. If you are unable to or, would rather not use the online system, available tetrads can also be issued by contacting your Regional Organiser. Should all the target tetrads would traffer not use the online system, available tetrads can also be issued by contacting your Regional Organiser.

Would traffer not use the online system, available tetrads can also he released for allocation by contacting your Regional Organiser. would rather not use the online system, available tetrads can also be issued by contacting your Regional Organiser. Should a your area already be allocated, additional tetrads can also be released for allocation by contacting your Regional Organiser. We would like you to make a series of counts within your assigned tetrad(s) from a single point location, which is selected by you as close as possible to the tetrad centre. In most cases this will be the nearest public across to the centre of the Letrad. But ideally is chould be within so We would like you to make a series of counts within your assigned tetrad(s) from a single point location, which is selected by you as close as possible to the tetrad, but ideally it should be within 30 to the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad, but ideally it should be writing to the access to the centre of the tetrad, but ideally it should be writing to the access to the tetrad centre. In most cases this will be the nearest public access to the centre or not the tetrad centre. In most cases this will be the nearest public access to the centre or not the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad, but ideally it should be writing to the access to the centre of the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad centre of possible to the tetrad centre. In most cases this will be the nearest public access to the centre of the tetrad, but ideally it should be within 30 the avoide the actual centre and the same for each visit. Points close to busy roads or where extraneous noise might affect the count should be avoide the actual centre and the same for each visit. Points close to busy roads or where extraneous noise might affect the count should be avoide the actual centre and the same for each visit. Points close to busy roads or where extraneous noise might affect the count should be avoided to the centre and the same for each visit. Points close to busy roads or where extraneous noise might affect the count should be avoided to the centre of the tetrad, but ideally it should be avoided to the centre of the tetrad, but ideally it should be avoided to the centre of the tetrad, but ideally it should be avoided to the centre of the tetrad, but ideally it should be avoided to the centre of the tetrad, but ideally it should be avoided to the centre of the tetrad, but ideally it should be avoided to the centre of the tetrad, but ideally it should be avoided to the centre of the tetrad to the centre of the tetrad to the centre of the tetrad. the actual centre and the same for each visit. Points close to busy roads or where extraneous noise might affect the count should be avoide possible (choose an alternative point within 50km). An online link to a map of your tested with both OS and satellite imagery will be proving the proving the same of possible (choose an alternative point within 300m). An online link to a map of your tetrad with both OS and satellite imagery will be proving the state of the st

How often to make a count: Please make two visits to your telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to have a count. Please make two visits to your telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to pour telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to your telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to your telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to your telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to your telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to your telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to your telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to your telred, each visit with two consecutive (i.e. without a gap) point counts of the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two visits to your telred, each other and the two your telred, each other and the tell with the two your telred, each other and the two your telred, each other and the two your telred, each other and the two y How often to make a count: Please make two visits to your tetrad, each visit with two consecutive (i.e., without a gap) point counts up the work of the two visits should ideally be made within two weeks of each other. A point count, lasts for 10 minutes, so usually you will do two lasting 20 minutes 0 x 10 minute point count? though we'd encrurage those who are keen to make an additional third with to the station 20 minutes 0 x 10 minute point count? though we'd encrurage those who are keen to make an additional third with to the station 20 minutes 0 x 10 minutes only country though we'd encrurage those who are keen to make an additional third with the station 20 minutes 0 x 10 minutes only country though we'd encrurage those who are keen to make an additional third with the stationary that the The two visits should ideally be made within two weeks of each other. A point count lasts for 10 minutes, so usually you will do two lasting 20 minutes (2 x 10 minute point count) though we'd encourage those who are keen to make an additional third visit to the visiting 20 minutes (2 x 10 minute point count) though we'd encourage those who are keen to make an additional third visit to the visit with three conversions are successful to undertake a simple visit with three conversions. lasting 20 minutes (2 x 10 minute point count) though we'd encourage those who are keen to make an additional third visit to the secreptional circumstances, such as with difficult to access points, it is acceptable to undertake a single visit with three consecutive exceptional circumstances, such as with difficult to access points, it is acceptable to undertake a single visit with three consecutive of the exceptional circumstances, such as with difficult to access points, it is acceptable to undertake a single visit with three consecutive of the exceptional circumstances. Such as with difficult to access points, it is acceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to undertake a single visit with three consecutive of the exceptable to the exceptable to

exceptional circumstances, such as with difficult to access points, it is acceptable to undertake a single visit with three consecutive places, the visit lasting for 30 minutes. Other point count combinations up to a maximum of three visits and three consecutive places to the visit assign for 30 minutes. Other point count combinations up to a maximum of three visits and three consecutive places the visit without an attack. The answer is a consecutive place to the consecutive places are also be undertaken. The answer is a consecutive place to the consecutive places are also be undertaken. The answer is a consecutive place to the consecutive places are also be undertaken. The answer is a consecutive place to the consecutive places are also be undertaken. The answer is a consecutive place to the consecutive places are also be undertaken. The answer is a consecutive place to the consecutive places are also be undertaken. The answer is a consecutive place to the consecutive places are also be undertaken as a consecutive places are also be undertaken. The answer is a consecutive place to the consecutive places are also be undertaken. The answer is a consecutive place to the consecutive places are also be undertaken. The answer is a consecutive place to the consecutive places are also be undertaken. counts, the visit lasting for 30 minutes. Other point count combinations up to a maximum of three visits and three consecutive particles and the consecutive particles are placed for the property of the prop How to do the point counts: During each visit, two consecutive (i.e. without a gap) point counts should be undertaken. Each advice, please contact your Regional Organiser.

rany turther information or advice about the survey please consult the online FAQ at www.bto.org/volunteeract-ow/tawny-owl-point-survey/faq or your Regional Organiser.

SAFETY. When you are surveying owls after dark, especially if in remote areas, make sure that you let someone know where you have sarre it. when you are surveying own oner wark, especially it in remote areas, make sure that you let someone know where you have gone and when you expect to return. Always carry tarches, a mobile phone, warm clothing and, in remote areas, a supply of food and gone and when you expect to return. Navoys carry torches, a moune prione, warm counting and, in remote areas, a supply or rood and drink. Volunteers are responsible for their own health and safety and should not put themselves in a position that could place them, or anna, vuanneers are responsave or area own neous and surery and should not put are necessary and postural and count proce area, or others in danger. You are strongly advised not to undertake any activity if you have any concerns about risks to your own or others 'health and safety (https://www.bto.org/volunteer-surveys/taking-part/health-safety).

DATA PROTECTION: If you are providing name, address and other personal details, BTO will store and use your personal details in line with our published Privacy Policy. You can specify your preferences about the way we contact you at any time. For further details, see www.bto.org, or email info@bto.org, or phone 01842 750050.

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OTHER THINGS YOU CAN DO THROUGH PROJECT OWL

Project Owl is an ambitious five-year programme of work, through which the BTO aims to improve our knowledge and understanding of our breeding owl

There are other surveys and studies with which you can help; you can also learn more about owls and what you can do to help them (including putting up a nest box). To find out more please visit www.bto.org/project-owl





Mass-participation for engagement (though meaningful)

"Help us to understand calling behaviour and distribution, and to discover the impact of urbanisation.

It's easy to take part – <u>just listen for 20 minutes</u> <u>during at least one evening</u> between September and March.

You can listen from your garden, local park or woodland – or while lying in bed with the window open!"



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You can listen from your garden, local park or woodland – or while lying in bed with the window open!"

"Bird lovers are being urged to **give up 20 minutes every week** to listen out for the "twit-twoo" call of the Tawny owl.

The British Trust for Ornithology is asking people to listen for the distinctive hoot from their garden, local park or woodland, once every week for the next six months."



The difference we make

How you can help

Our science

Understanding birds

Develop your skills

Learn about our owls and how you can help them

Use these resources to learn how to identify owls; find out more about their ecology, fascinating behaviour and how to build next boxes for them.

Read our latest articles on Owl vision and Owl hearing



Long-eared Owl

The long-eared owl, also known as the northern long-eared owl, is a species of owl which breeds in Europe, Asia, and North America.

LISTEN TO A LONG-EARED OWL CALL



Long-eared Owl (Asio otus) - call Ashley Banwell Breckland District. Norfolk. England, United Kingdon



Barn Owl

The Barn Owl has benefited from conservation efforts, in particular the provision of nest boxes, and its population has increased since the last national survey. There may now be as many as 10,000 pairs breeding across Britain & Ireland.

LISTEN TO A BARN OWL CALL

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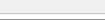


Tawny Owl

The Tawny Owl is probably our most familiar species of owl, found in wooded habitats across Britain. The species is absent from Ireland, underlining its sedentary habits and reluctance to cross large bodies of water.

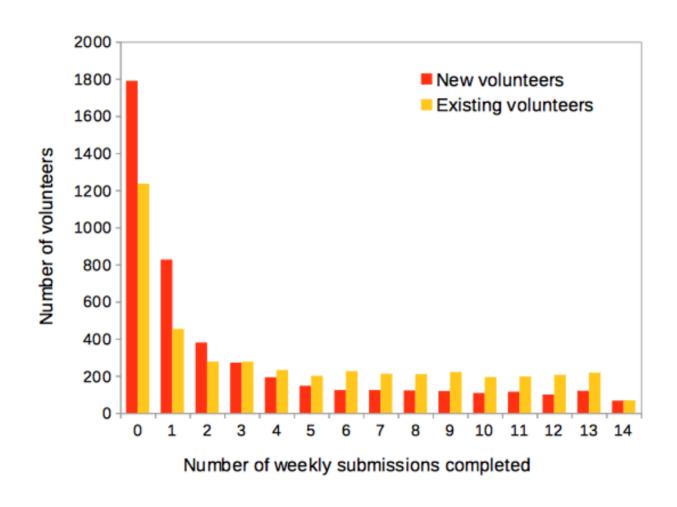
LISTEN TO A TAWNY OWL CALL

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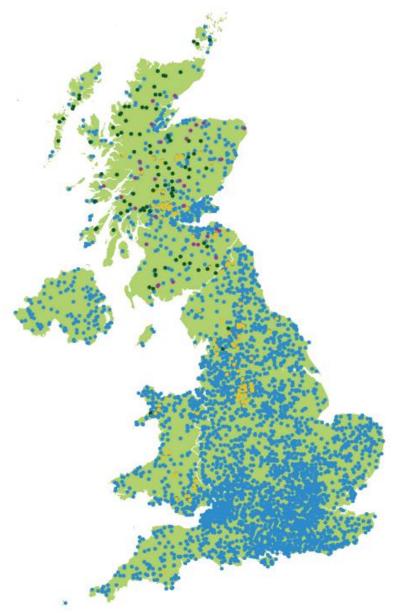




 Over 9,000 registered participants of which 51% had not previously interacted with BTO

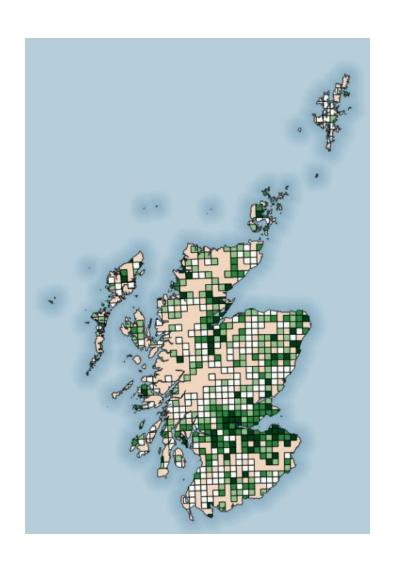






- 'Gold standard' survey
- Two visits per year to random 1km squares
- Over 4,000 squares covered
- We have made changes high uptake
- Volunteers want to help <u>us</u>





- Sample biased towards lowlands / towns
- A different approach needed for remote areas



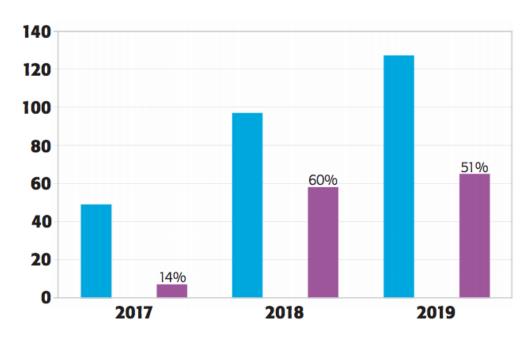
- Maintaining 'gold standard' stratification
- Single one-off visits allowed





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- Single one-off visits allowed

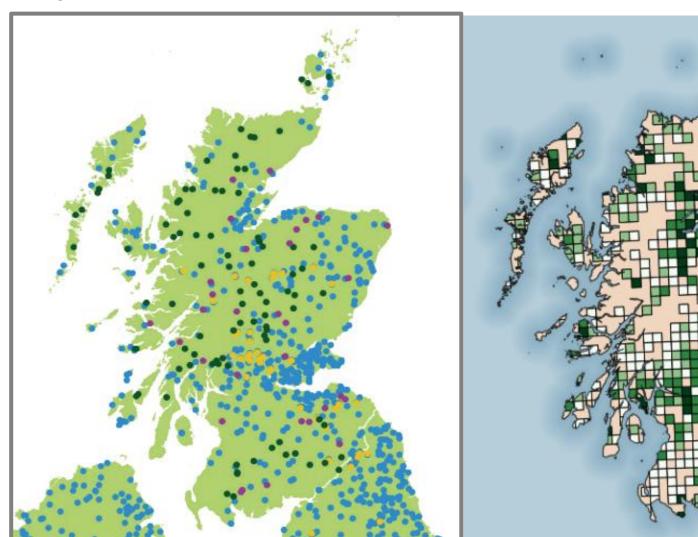
UPLAND ROVERS UPTAKE

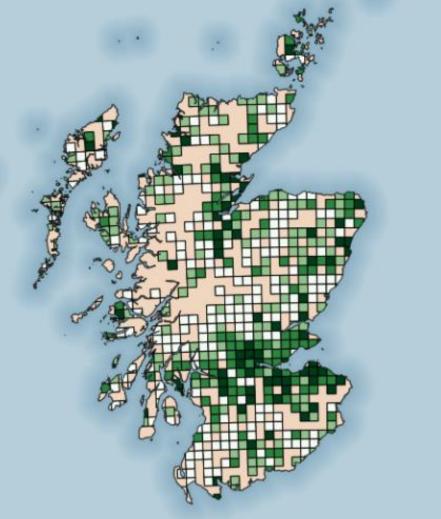


- Total number of Upland Rovers squares covered per year
- Number of those Upland Rovers squares covered twice in the year, along with the percentage of the total covered to which that relates



- Maintaining 'gold standard' stratification
- Single one-off visits allowed





Example 3 – Raptor monitoring in Scotland

- A long history of voluntary raptor monitoring in Scotland
- Scottish Raptor Monitoring Scheme was set up in 2002

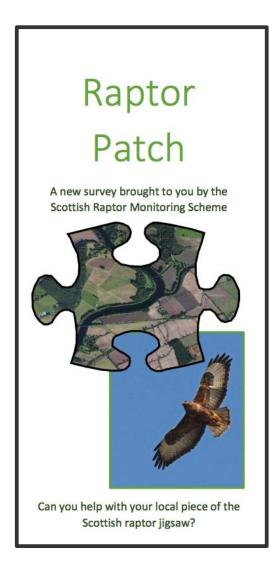
HERDING CATS:

"A futile attempt to control that which is inherently uncontrollable."



- Inertia / history to overcome
- Difficulties implementing best-practice
 - trends hard to produce
- Are they a 'volunteer'?
 - individual studies, or loyal to RSG
- Limited scientific understanding
- Alternative motivations
 - fun, numbers, persecution
- Data-entry not easy

Example 3 – Raptor monitoring in Scotland



- Raptor Patch set up in 2016
- Focus on Buzzard, Kestrel, Sparrowhawk and Raven
- Consistent area-based monitoring

Benefits:

- Under-monitored species
- Trend production
- New volunteers
- Self-selection of local sites
- Volunteers view themselves as SRMS volunteers...
- But... requires co-ordination

Summary

- Think carefully about your audiences
- Make things as simple as possible
- Allocate resource to retaining and developing volunteers

