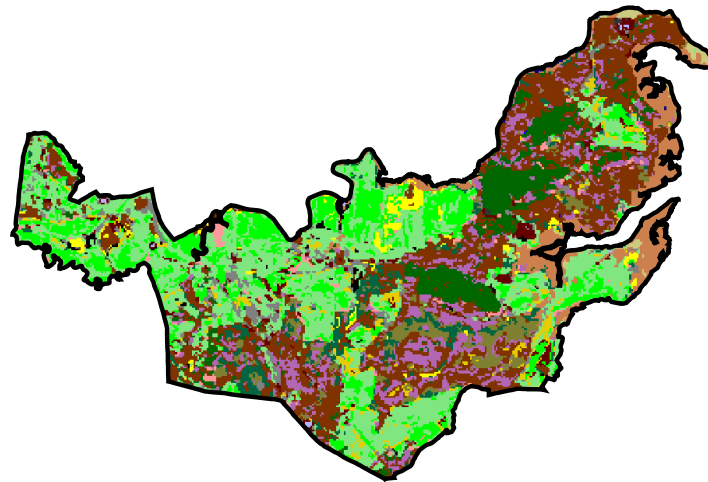# What nature data do local people in UK want and what can they contribute?

Former Councillor Bridget Kenward
of Arne Parish in southern UK (LAU2)
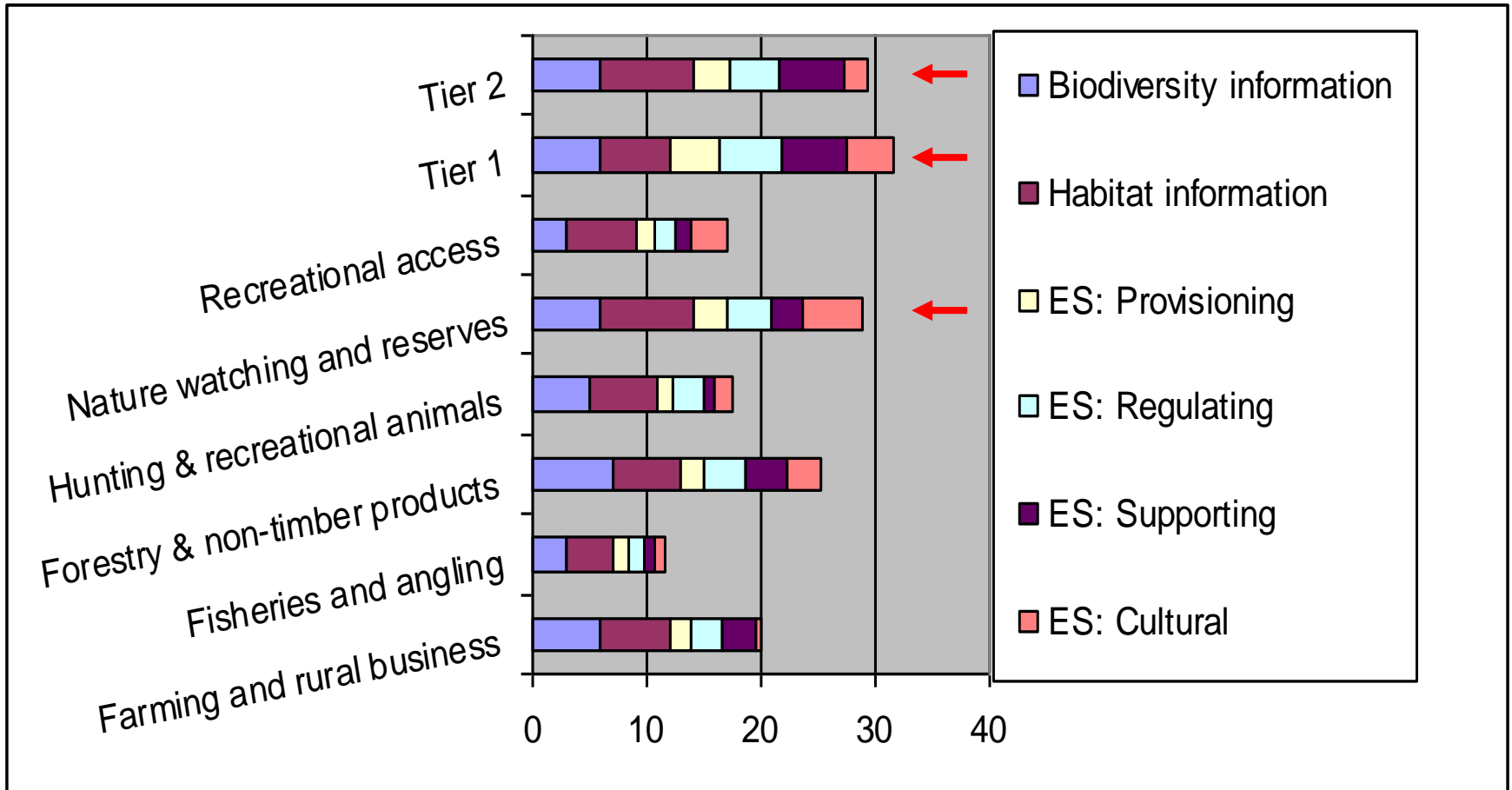### 1,200 citizens, 27 km^2
and of Purbeck District Council (LAU1)
40,000 citizens, 450 km^2

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Making Complex Science Simple for Community Conservation

What support for conserving biodiversity and ecosystem services do local people want?

(survey 5 local administrations in 30 states)

(8 case studies with local administrations)

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What type of information is needed by the different categories of stakeholder?

Legend:
- Biodiversity information
- Habitat information
- ES: Provisioning
- ES: Regulating
- ES: Supporting
- ES: Cultural

Categories (top to bottom): Tier 2, Tier 1, Recreational access, Nature watching and reserves, Hunting & recreational animals, Forestry & non-timber products, Fisheries and angling, Farming and rural business

X-axis: 0, 10, 20, 30, 40

- All categories needed by all, especially biodiversity & habitat info
- Local government & nature reserves indicated the greatest need

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Adequacy of data supply - different categories of information

Accessibility of information grouped - all individual stakeholders using Daq
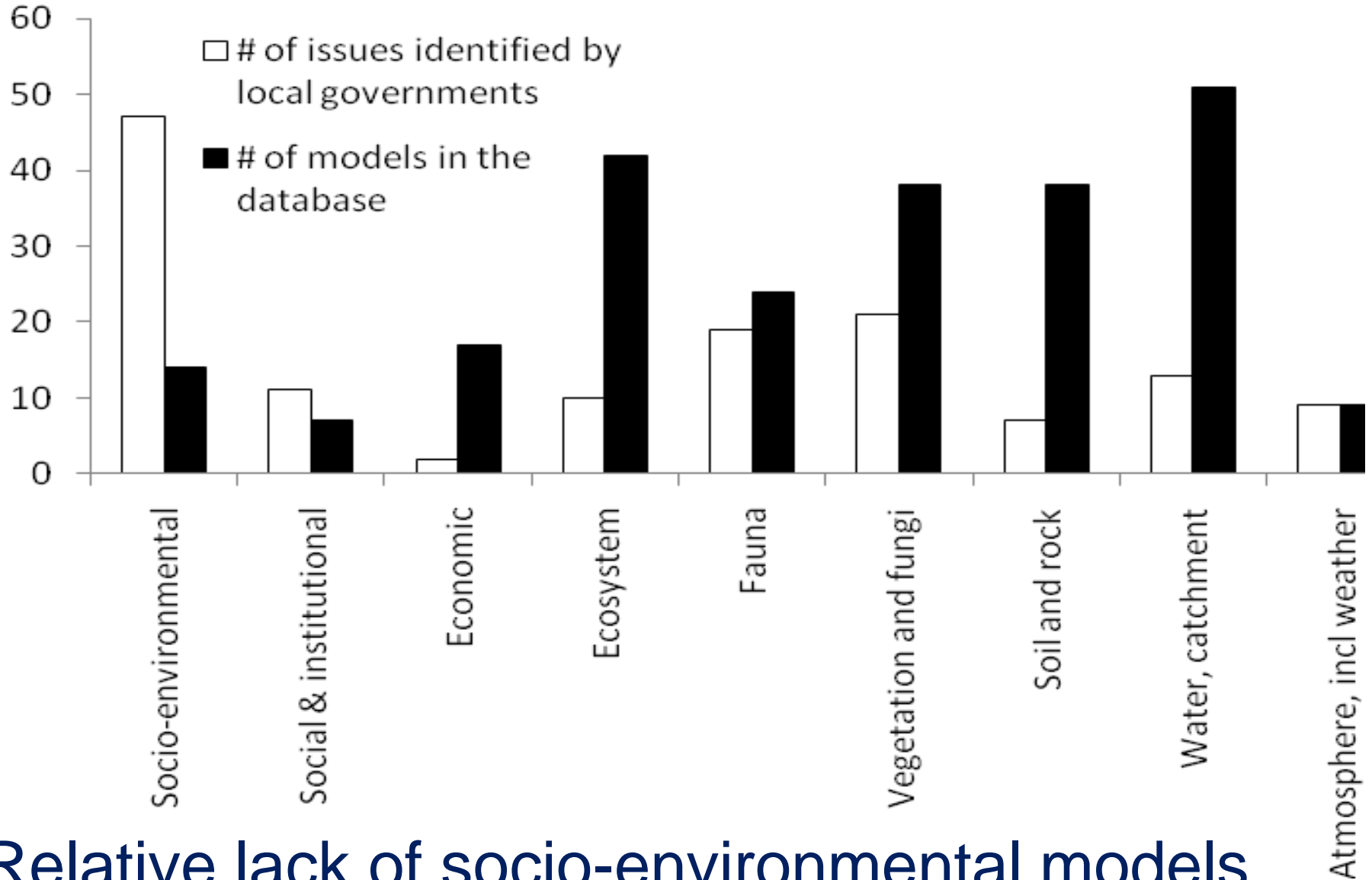Local & regional biodiversity data particularly lacking
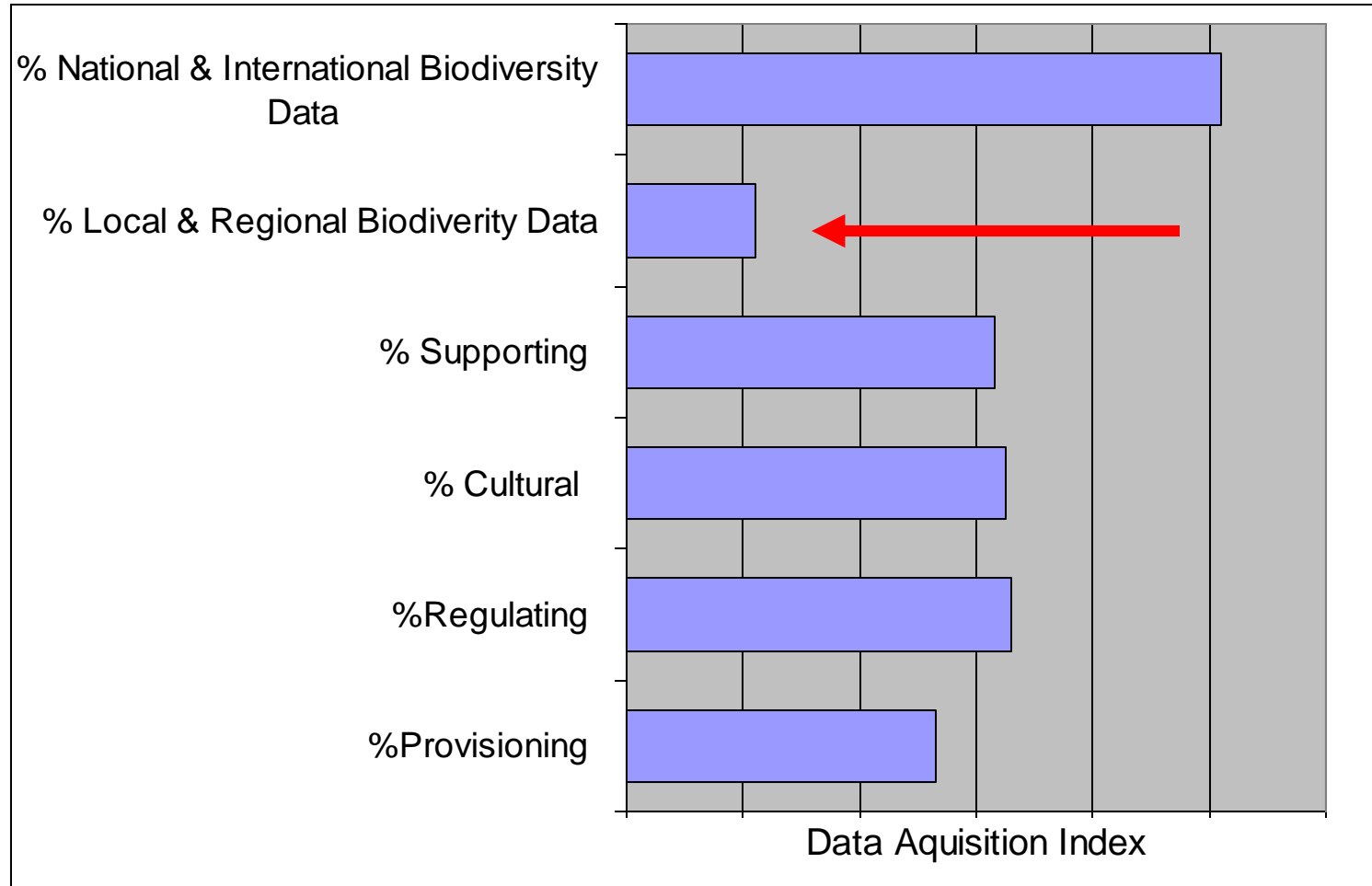
DAq Index = ∑ (% responses * weight) where none= 0, some=1, most=2, all=3

**Workshop for South America,
Lima, Peru, 26 October 2017.**

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Gap analysis of models for forecasting


Relative lack of socio-environmental models

Making Complex Science Simple for Community Conservation

What support for conserving biodiversity and ecosystem services do local people want?

(survey 5 local administrations in 30 states)

(8 case studies with local administrations)

Maps of species & habitats & socio-ecology forecasts to assist land-use decisions.

What is available?
What can they contribute?

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Remote mapping (LCMGB) is a wonderful tool, but decision support predictions by modelling species needs mapping at field, park & even garden scale.

10km
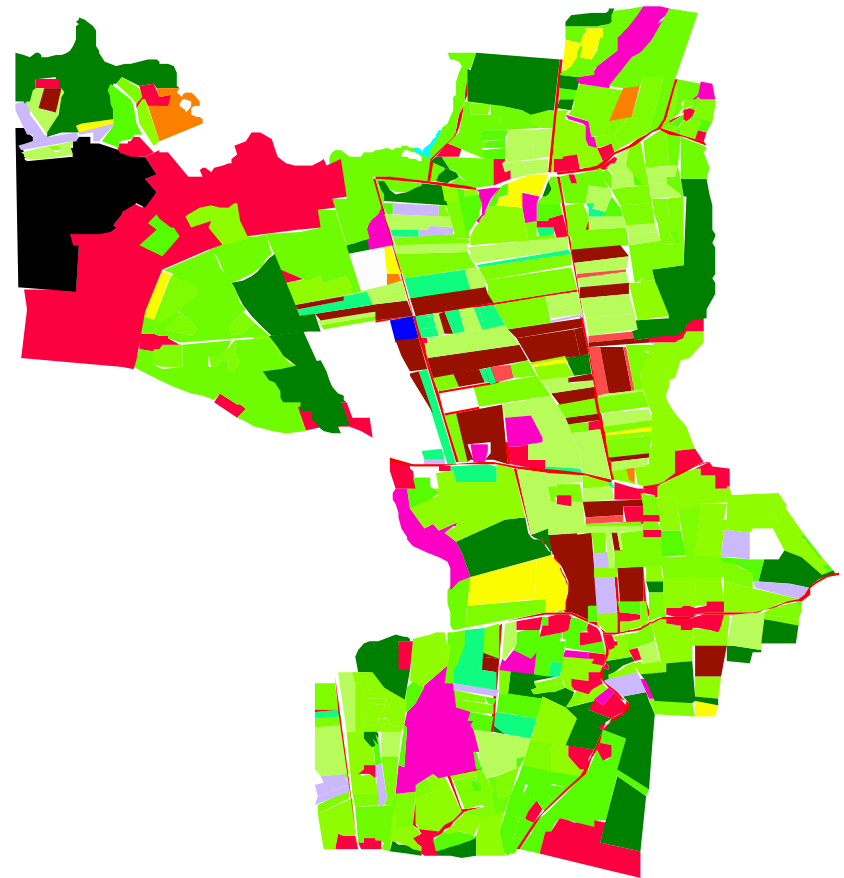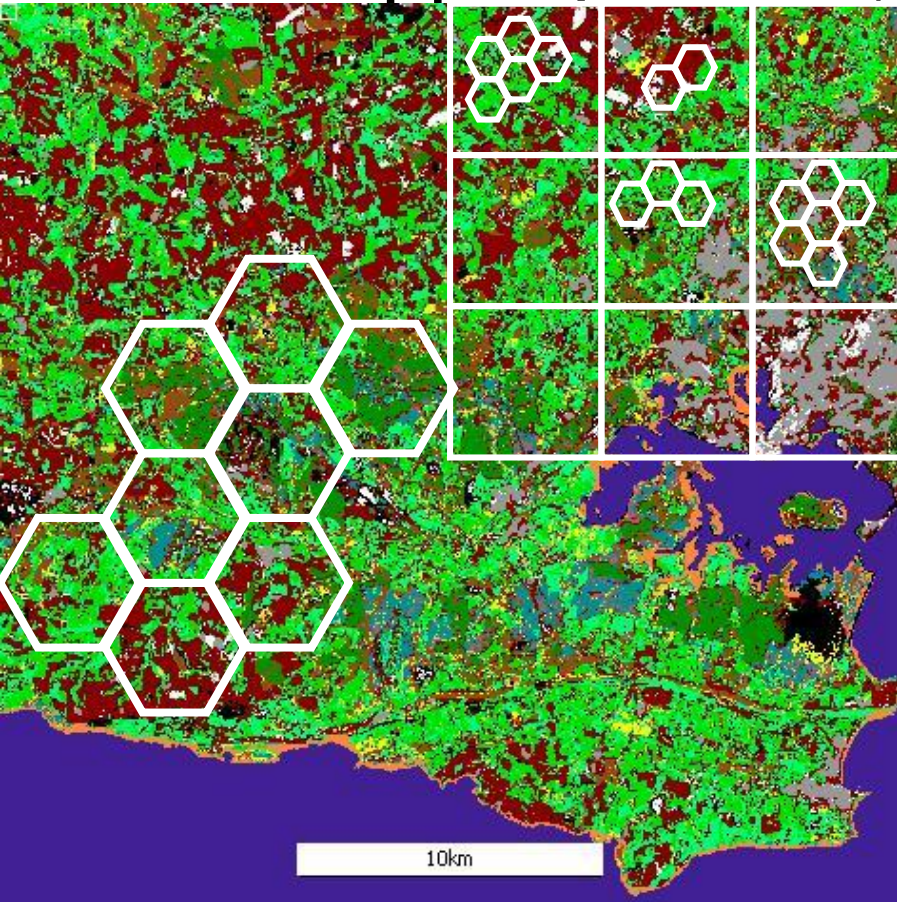
Satellite mapping therefore needs complementing by details of fine-scale ground-based maps.

1km

Ground-based for detail,
(by Swedish hunters, 1985)

Re-examination by practitioners of 198 models deemed applicable at field scale

Database models (198): 50% were no longer available or not for local use, with only 6% deemed usable locally by non-experts. The 10 models use at most 2 local languages.
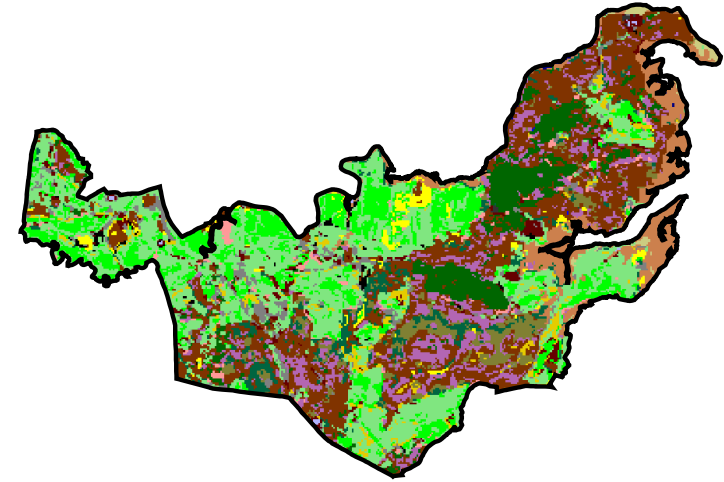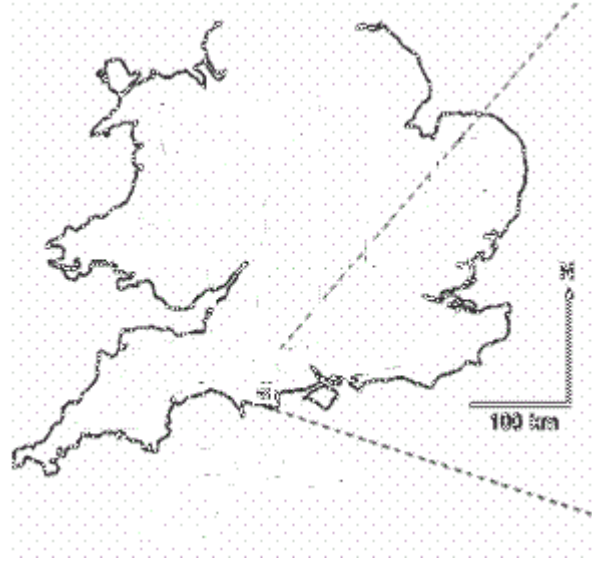

- Not available
- Not local
- Not usable
- Local+Usable
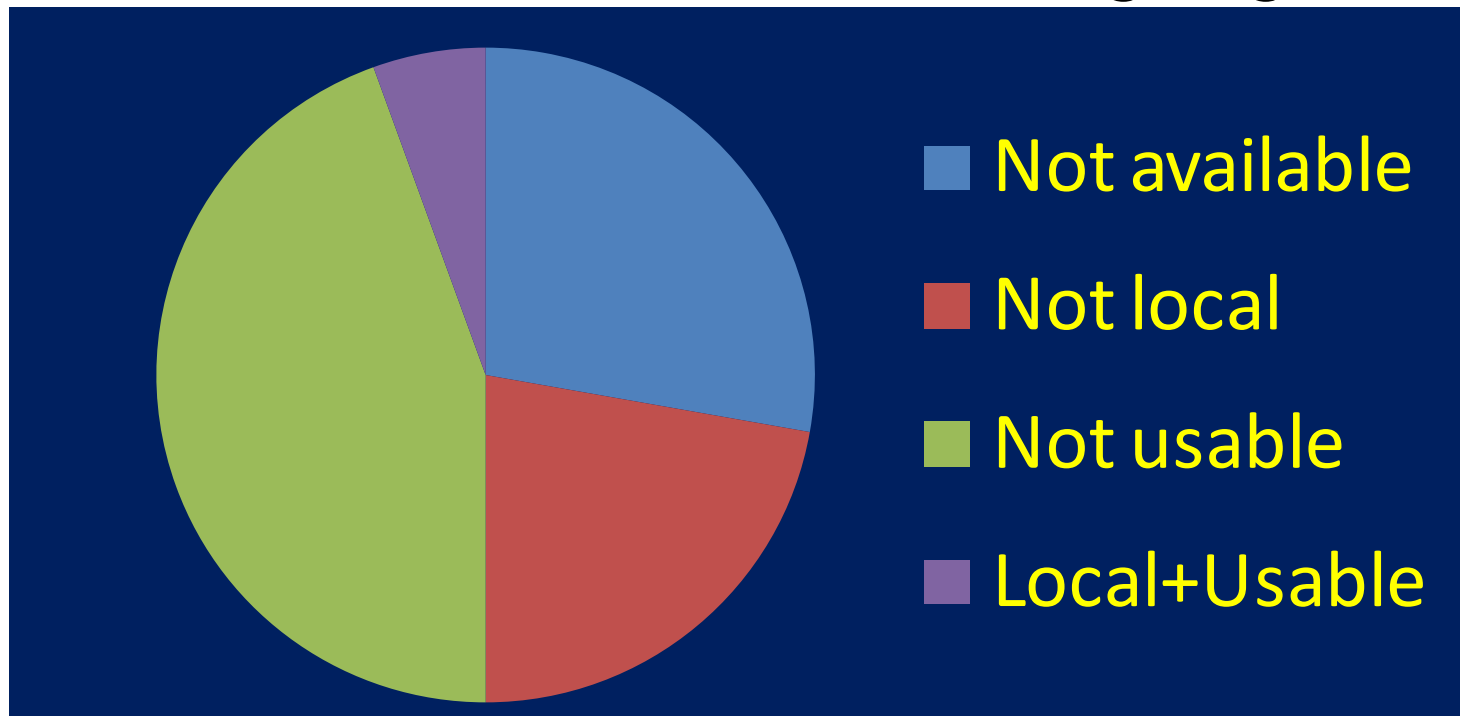
Very poor transfer of science/technology to local use!

Community Project: Deer

- **In gardens**
- **In forestry**
- **On farms**
- **For wildlife habitats**
- **On roads**

Arne Parish in southern UK
1,200 citizens, 27 km²

Q59   Please look at the map and mark a different letter (A,B,C etc.) on it to show each place where you have seen deer or damage by deer during the past 12 months. If you were walking/driving/riding when you saw the deer damage, please also draw a line for the whole route on the map touching the letters A,B,C for deer seen on that route. Then please answer the questions below using the letter that you entered on the map.

|	If you saw deer at that place about how many times did you see them there in 2010	If you saw deer please give a number for the most you saw at that place in 2010 on any occasion	If you saw deer, about how many times did you visit that place or walk/drive /ride that route in 2010?	If you saw damage to bushes, crops, & vehicles, in what month(s) did you see the damage
A	☐	☐	☐	☐
B	☐	☐	☐	☐
C	☐	☐	☐	☐

In Arne Parish (UK) citizens were good at recording deer sightings & damage.
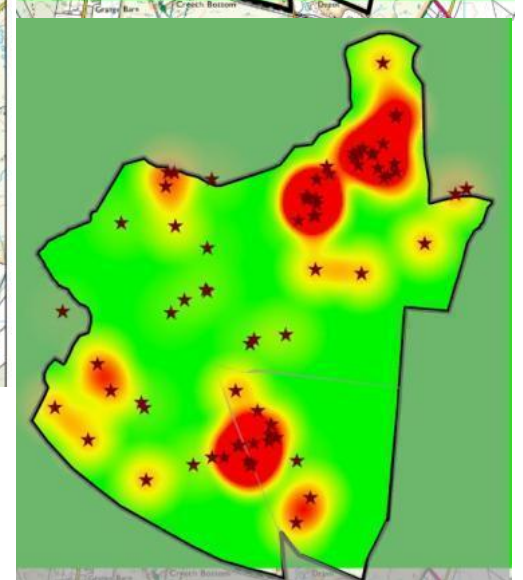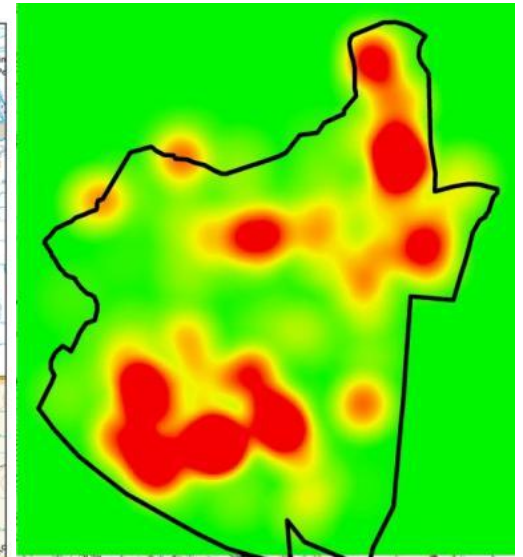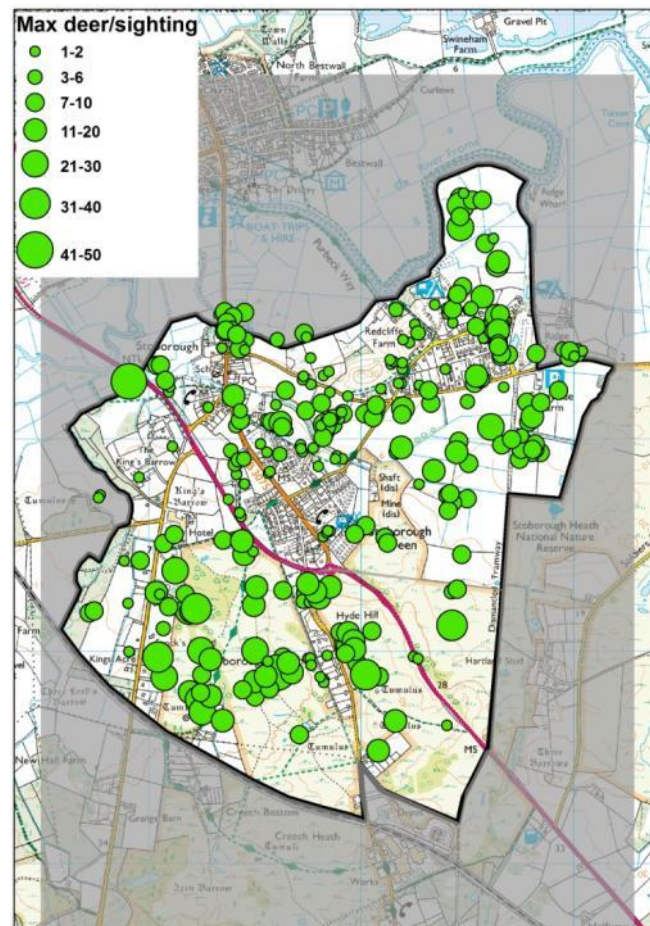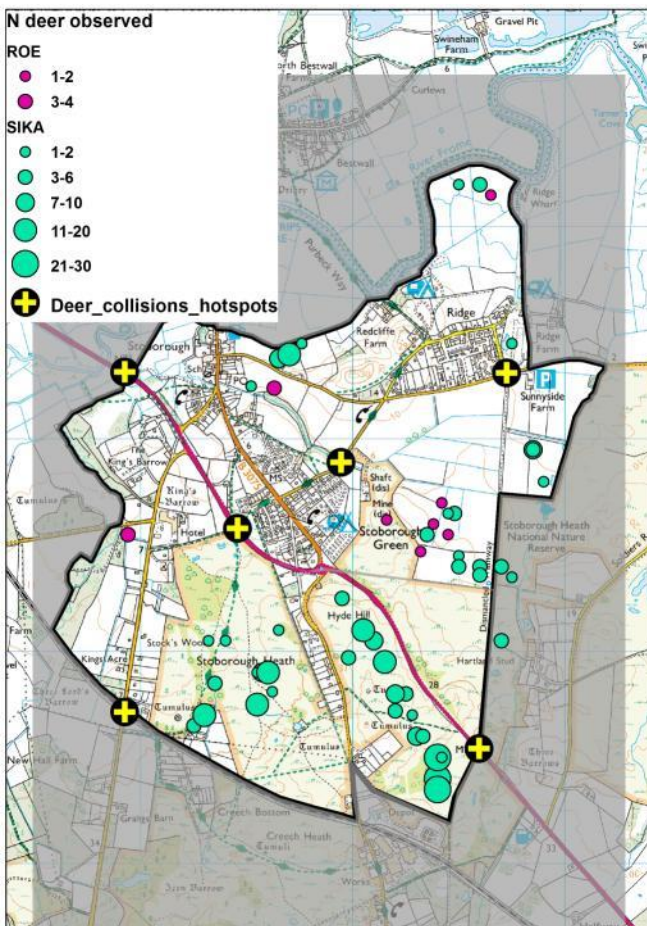
Systematic survey of deer by a post-doctoral biologist.

800 sightings by the public gave better data on density & damage.

Given a system, what could citizens give in exchange: help to manage wildlife by fine-scale mapping of routes & habitats?

We made it fun, with GPS and drawing over Google maps

Moreover …
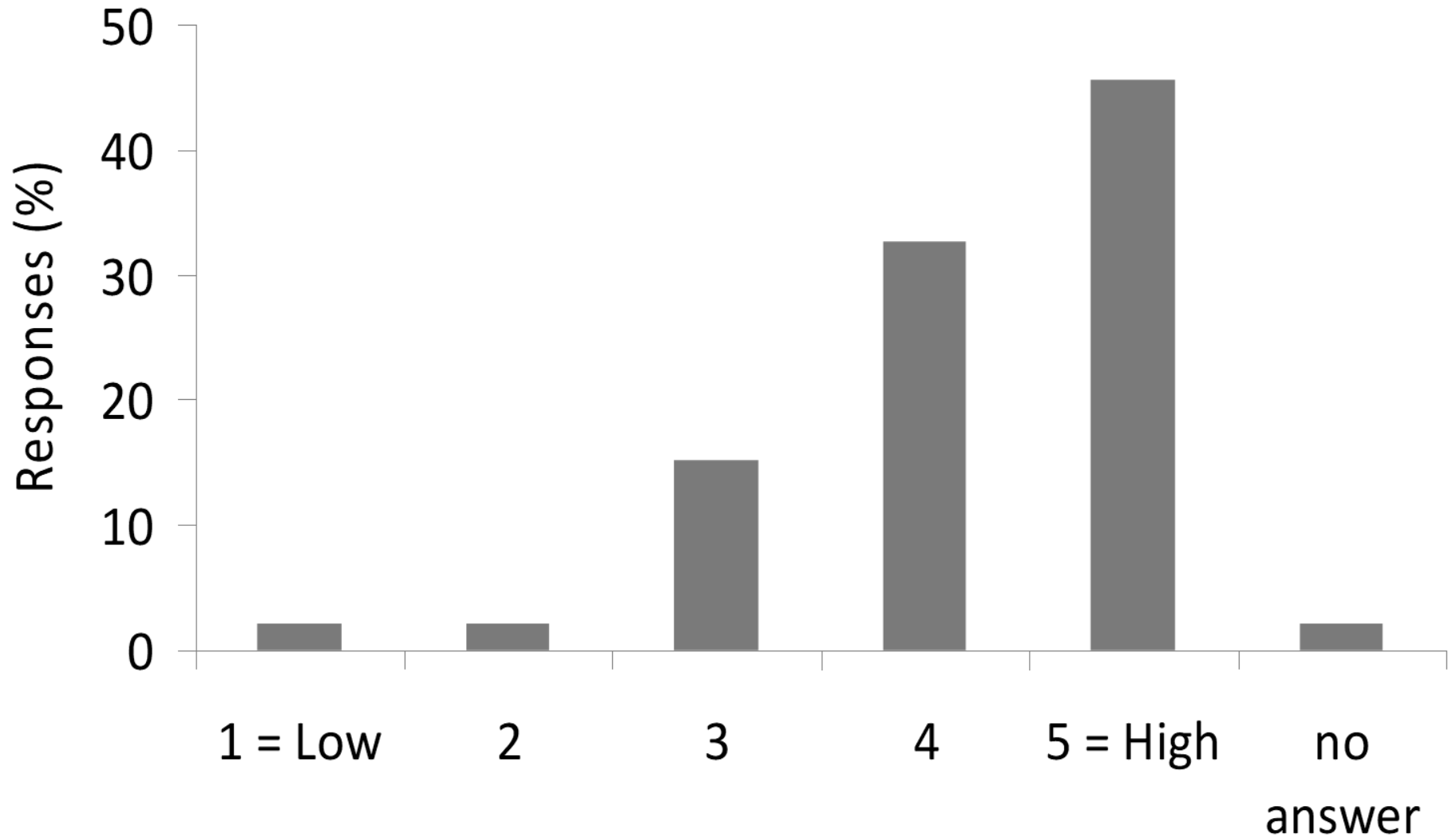
Scout Team   and   Post-doc Biologist

mapped deer habitats equally well; differences in habitat class (colour) could easily be resolved by training.

Post case-study helper survey

f. How likely would you be to do such a project again?

New idea: attract local government

Arne Parish

Home   About   News   Archive   Contact Us   Register

Calendar

Regular Events

Classifieds

Mapping

Services

Interests

Arne Parish

Arne is a rural parish with a blend of both traditional and modern values. Arne has 1,370 citizens in settlements from Worgret in the west to Arne hamlet in the east and Furzebrook Road to the south, with most people in villages at Ridge & Stoborough. Apart from a small proportion of mudflat and water in the east, the 29km^2 of the Parish is about half used for farming with a fifth heathland and a fifth woodland.
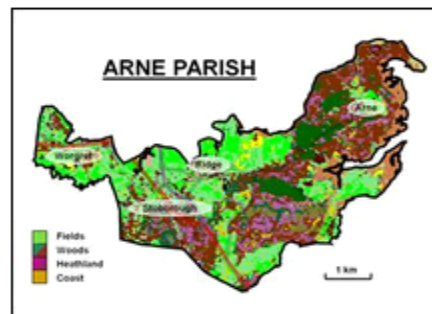
Major roads run west from Wareham towards Dorchester in the north of the parish, and south towards Swanage, with railway links also to these towns. The River Frome flows across the Parish through extensive water-meadows. The rich land-use makes Arne Parish an important part of the 10km square that has the most plant species in Britain, so nature conservation and tourism are important local interests, joining clay-mining in generating local jobs.

ARNE PARISH

Fields
Woods
Heathland
Coast

1 km

To have a better look at the map (and any image on this site), please just click on it; use the back button (←) at the top left of your browser to return to the same page. Clicking a *link in bold italics* opens a pdf file in a separate window. Other links take you off-site in the same window but you can use the back button (←) to return to the same page.

News

03 Oct 2012 **Upgrading The Hayricks**

09 Jul 2012 **Rain and tide floods the Causeway**

07 Jul 2012 **Heavy summer rains**

Read more

Arne Parish Survey and Plan

In 2010, Arne Parish Council asked all households to complete a survey for a Parish Plan, which was ready in 2011. The survey showed an increasing proportion of citizens working from home. It also set a European standard for community participation in mapping wildlife and habitats. *Please click on our Parish Plan to have a look.*

More about Arne Parish

Please visit the "About" page for more information on Arne Parish and the Parish Council, with records of Council meetings to be found in the "Archive". The "News"

The system has pages for easy local editing & pages edited nationally to guide/survey locals

East Stoke Community

Home   Village Hall   News   Downloads   History   Contact Us

Calendar

Regular Events

Classifieds

Routes

Gallery

Defra & State Agencies

Register

Find us on Facebook

East Stoke

Is a rural parish in a beautiful part of Dorset, straddling the wide flat valley of the River Frome, bisected by the main Weymouth-London railway and consisting of the settlements of East Stoke, Stokeford, Rushton, Highwood, Hethfelton, Binnegar, West Holme, Holmebridge and Woolbridge.

The village has a population of 439 (2001). The world famous Monkey World Ape Rescue is near the northern edge of the Parish. The Freshwater Biological Association runs a research centre on the banks of the River Frome, from which the Game & Wildlife Conservation Trust runs its research into atlantic salmon declines.

This is a community website so please get in touch with any ideas or feedback or if you run a local organisation and would like your own link!

Much useful information is contained elsewhere on this site, however it is hoped that the following notes, and hyperlinks below, will provide additional valuable information:

USEFUL LINKS

Met Office

dorsetforyou.com

News

22 Apr 2014 **Five young people hurt as car flips over**

21 Apr 2014 **Interested in becoming a Parish Councillor for East Stoke?**

It contains advanced facilities to map routes, points (e.g. species) & areas (e.g. of habitat)

A System for Community Liaison to:

- Map and advise removal of alien species;

- Monitor rare species and guide restoration;

- Support decisions for livelihoods & conservation;

- Encourage systematic fine-scale mapping;

- Ground-truth remote imaged maps;

- Run sensors and crowd-source data for early-warning (wildfires/flooding/wildlife disease/etc

- Grow a multi-lingual platform supporting management and recreation technologies.

Summary

- Detailed information for local management is poor; maps and decision support are desired.

- Local people are good at mapping and could exchange mapping for decision support.

- Without top-down support for an appropriate system, work continues to build bottom-up with funds from providing other internet services, for example to local councils and clubs.

Thank you for listening

www.Naturalliance.eu

Workshop for South America, Lima, Peru, 26 October 2017.

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